



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 08:30 AM UTC

PDB ID : 4V93 / pdb_00004v93
EMDB ID : EMD-2627
Title : Fitted coordinates for Lumbricus terrestris hemoglobin cryo-EM complex (EMD-2627)
Authors : Chen, W.T.; Chen, Y.C.; Liou, H.H.; Chao, C.Y.
Deposited on : 2014-04-16
Resolution : 8.10 Å(reported)
Based on initial model : 2GTL

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

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

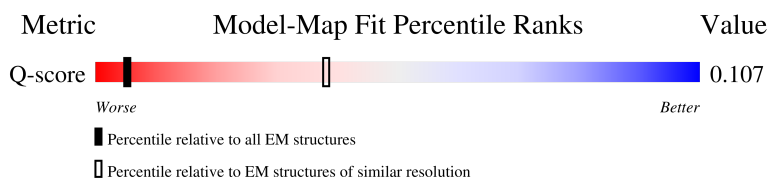
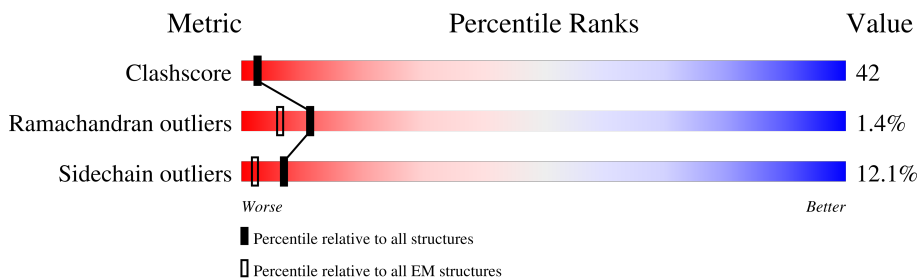
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 8.10 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	342 (7.60 - 8.60)

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

Mol	Chain	Length	Quality of chain
1	A0	149	34% 60% 33% 7%
1	A5	149	34% 58% 34% 8%
1	AC	149	34% 58% 34% 8%
1	AH	149	34% 58% 34% 7%

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Mol	Chain	Length	Quality of chain
1	AM	149	
1	AR	149	
1	AW	149	
1	Ab	149	
1	Ag	149	
1	Al	149	
1	Aq	149	
1	Av	149	
2	A1	140	
2	A6	140	
2	AD	140	
2	AI	140	
2	AN	140	
2	AS	140	
2	AX	140	
2	Ac	140	
2	Ah	140	
2	Am	140	
2	Ar	140	
2	Aw	140	
3	A2	147	
3	A3	147	
3	A7	147	
3	AA	147	
3	AE	147	

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Mol	Chain	Length	Quality of chain
3	AF	147	
3	AJ	147	
3	AK	147	
3	AO	147	
3	AP	147	
3	AT	147	
3	AU	147	
3	AY	147	
3	AZ	147	
3	Ad	147	
3	Ae	147	
3	Ai	147	
3	Aj	147	
3	An	147	
3	Ao	147	
3	As	147	
3	At	147	
3	Ax	147	
3	Ay	147	
4	A4	145	
4	AB	145	
4	AG	145	
4	AL	145	
4	AQ	145	
4	AV	145	

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Mol	Chain	Length	Quality of chain
4	Aa	145	
4	Af	145	
4	Ak	145	
4	Ap	145	
4	Au	145	
4	Az	145	
4	B2	145	
4	B3	145	
4	B7	145	
4	BA	145	
4	BE	145	
4	BF	145	
4	BJ	145	
4	BK	145	
4	BO	145	
4	BP	145	
4	BT	145	
4	BU	145	
4	BY	145	
4	BZ	145	
4	Bd	145	
4	Be	145	
4	Bi	145	
4	Bj	145	
4	Bn	145	

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Mol	Chain	Length	Quality of chain
4	Bo	145	
4	Bs	145	
4	Bt	145	
4	Bx	145	
4	By	145	
5	B0	158	
5	B5	158	
5	BC	158	
5	BH	158	
5	BM	158	
5	BR	158	
5	BW	158	
5	Bb	158	
5	Bg	158	
5	Bl	158	
5	Bq	158	
5	Bv	158	
5	C4	158	
5	CB	158	
5	CG	158	
5	CL	158	
5	CQ	158	
5	CV	158	
5	Ca	158	
5	Cf	158	

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Mol	Chain	Length	Quality of chain
5	Ck	158	
5	Cp	158	
5	Cu	158	
5	Cz	158	
6	B1	151	
6	B6	151	
6	BD	151	
6	BI	151	
6	BN	151	
6	BS	151	
6	BX	151	
6	Bc	151	
6	Bh	151	
6	Bm	151	
6	Br	151	
6	Bw	151	
7	B4	170	
7	BB	170	
7	BG	170	
7	BL	170	
7	BQ	170	
7	BV	170	
7	Ba	170	
7	Bf	170	
7	Bk	170	

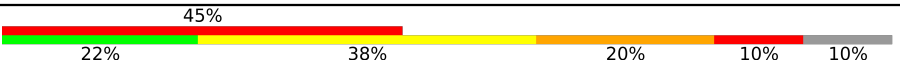
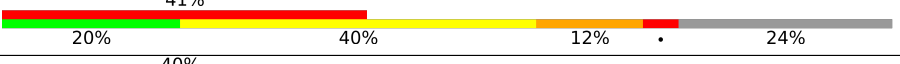
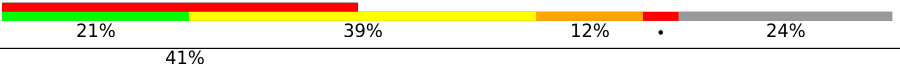
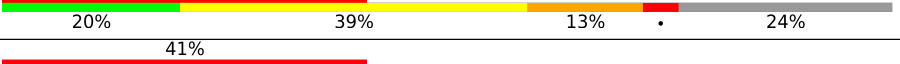
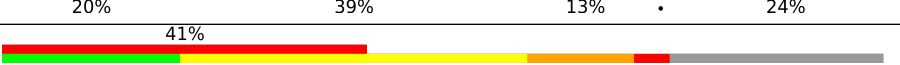
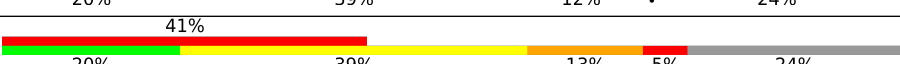
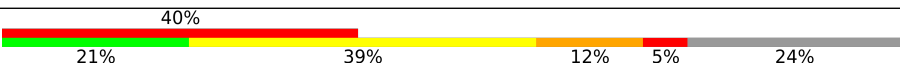
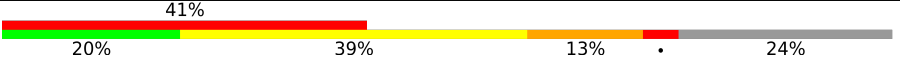
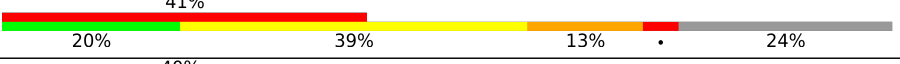
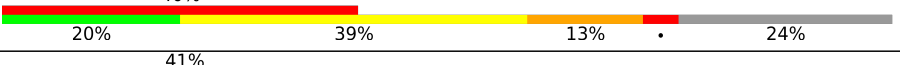
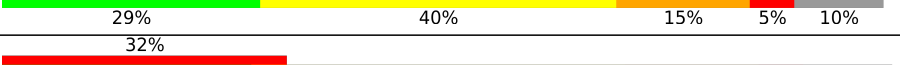
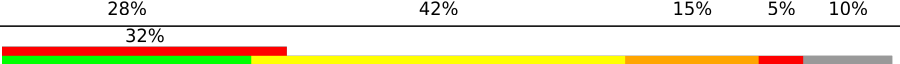
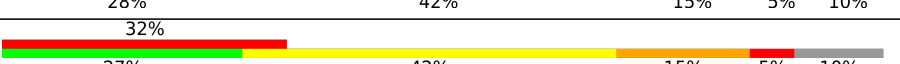
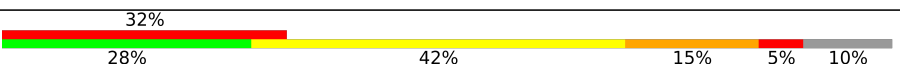
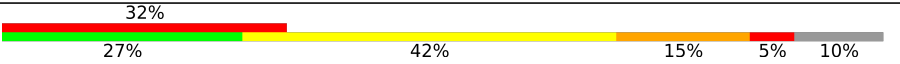
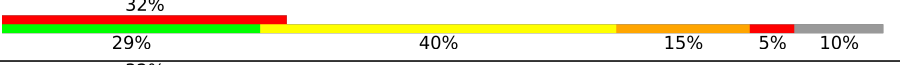
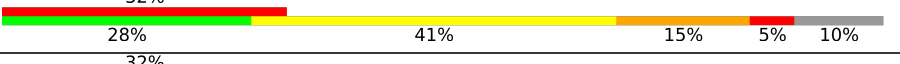
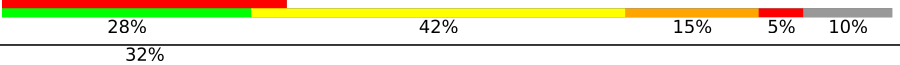
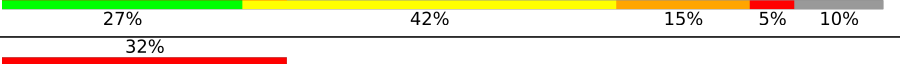
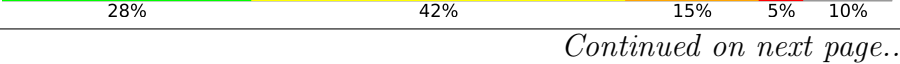
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Mol	Chain	Length	Quality of chain
7	Bp	170	
7	Bu	170	
7	Bz	170	
7	C3	170	
7	CA	170	
7	CF	170	
7	CK	170	
7	CP	170	
7	CU	170	
7	CZ	170	
7	Ce	170	
7	Cj	170	
7	Co	170	
7	Ct	170	
7	Cy	170	
8	C0	240	
8	C5	240	
8	CC	240	
8	CH	240	
8	CM	240	
8	CR	240	
8	CW	240	
8	Cb	240	
8	Cg	240	
8	Cl	240	

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Mol	Chain	Length	Quality of chain
8	Cq	240	
8	Cv	240	
9	C1	288	
9	C6	288	
9	CD	288	
9	CI	288	
9	CN	288	
9	CS	288	
9	CX	288	
9	Cc	288	
9	Ch	288	
9	Cm	288	
9	Cr	288	
9	Cw	288	
10	C2	240	
10	C7	240	
10	CE	240	
10	CJ	240	
10	CO	240	
10	CT	240	
10	CY	240	
10	Cd	240	
10	Ci	240	
10	Cn	240	
10	Cs	240	

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Mol	Chain	Length	Quality of chain
10	Cx	240	32%27%42%15%5%10%

2 Entry composition

There are 10 unique types of molecules in this entry. The entry contains 231000 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 EXTRACELLULAR GLOBIN-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A0	149	Total	C	N	O	S	0	0
			1191	758	212	218	3		
1	A5	149	Total	C	N	O	S	0	0
			1191	758	212	218	3		
1	AC	149	Total	C	N	O	S	0	0
			1191	758	212	218	3		
1	AH	149	Total	C	N	O	S	0	0
			1191	758	212	218	3		
1	AM	149	Total	C	N	O	S	0	0
			1191	758	212	218	3		
1	AR	149	Total	C	N	O	S	0	0
			1191	758	212	218	3		
1	AW	149	Total	C	N	O	S	0	0
			1191	758	212	218	3		
1	Ab	149	Total	C	N	O	S	0	0
			1191	758	212	218	3		
1	Ag	149	Total	C	N	O	S	0	0
			1191	758	212	218	3		
1	Al	149	Total	C	N	O	S	0	0
			1191	758	212	218	3		
1	Aq	149	Total	C	N	O	S	0	0
			1191	758	212	218	3		
1	Av	149	Total	C	N	O	S	0	0
			1191	758	212	218	3		

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A0	49	GLU	ASP	conflict	UNP P11069
A5	49	GLU	ASP	conflict	UNP P11069
AC	49	GLU	ASP	conflict	UNP P11069
AH	49	GLU	ASP	conflict	UNP P11069
AM	49	GLU	ASP	conflict	UNP P11069
AR	49	GLU	ASP	conflict	UNP P11069

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Chain	Residue	Modelled	Actual	Comment	Reference
AW	49	GLU	ASP	conflict	UNP P11069
Ab	49	GLU	ASP	conflict	UNP P11069
Ag	49	GLU	ASP	conflict	UNP P11069
Al	49	GLU	ASP	conflict	UNP P11069
Aq	49	GLU	ASP	conflict	UNP P11069
Av	49	GLU	ASP	conflict	UNP P11069

- Molecule 2 is a protein called HEMOGLOBIN CHAIN D1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A1	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
2	A6	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
2	AD	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
2	AI	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
2	AN	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
2	AS	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
2	AX	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
2	Ac	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
2	Ah	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
2	Am	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
2	Ar	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
2	Aw	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		

- Molecule 3 is a protein called EXTRACELLULAR GLOBIN-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	A2	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	A3	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	A7	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	AA	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	AE	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	AF	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	AJ	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	AK	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	AO	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	AP	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	AT	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	AU	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	AY	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	AZ	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	Ad	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	Ae	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	Ai	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	Aj	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	An	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	Ao	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	As	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	At	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
3	Ax	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	Ay	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A2	78	LYS	ASP	conflict	UNP P13579
A3	78	LYS	ASP	conflict	UNP P13579
A7	78	LYS	ASP	conflict	UNP P13579
AA	78	LYS	ASP	conflict	UNP P13579
AE	78	LYS	ASP	conflict	UNP P13579
AF	78	LYS	ASP	conflict	UNP P13579
AJ	78	LYS	ASP	conflict	UNP P13579
AK	78	LYS	ASP	conflict	UNP P13579
AO	78	LYS	ASP	conflict	UNP P13579
AP	78	LYS	ASP	conflict	UNP P13579
AT	78	LYS	ASP	conflict	UNP P13579
AU	78	LYS	ASP	conflict	UNP P13579
AY	78	LYS	ASP	conflict	UNP P13579
AZ	78	LYS	ASP	conflict	UNP P13579
Ad	78	LYS	ASP	conflict	UNP P13579
Ae	78	LYS	ASP	conflict	UNP P13579
Ai	78	LYS	ASP	conflict	UNP P13579
Aj	78	LYS	ASP	conflict	UNP P13579
An	78	LYS	ASP	conflict	UNP P13579
Ao	78	LYS	ASP	conflict	UNP P13579
As	78	LYS	ASP	conflict	UNP P13579
At	78	LYS	ASP	conflict	UNP P13579
Ax	78	LYS	ASP	conflict	UNP P13579
Ay	78	LYS	ASP	conflict	UNP P13579

- Molecule 4 is a protein called EXTRACELLULAR GLOBIN-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	A4	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	AB	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	AG	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	AL	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	AQ	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	AV	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	Aa	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	Af	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	Ak	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	Ap	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	Au	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	Az	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	B2	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	B3	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	B7	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	BA	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	BE	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	BF	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	BJ	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	BK	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	BO	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	BP	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	BT	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	BU	145	Total 1148	C 720	N 212	O 213	S 3	0	0
4	BY	145	Total 1148	C 720	N 212	O 213	S 3	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	BZ	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	Bd	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	Be	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	Bi	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	Bj	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	Bn	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	Bo	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	Bs	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	Bt	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	Bx	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		
4	By	145	Total	C	N	O	S	0	0
			1148	720	212	213	3		

There are 36 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A4	66	ASP	GLU	conflict	UNP P02218
AB	66	ASP	GLU	conflict	UNP P02218
AG	66	ASP	GLU	conflict	UNP P02218
AL	66	ASP	GLU	conflict	UNP P02218
AQ	66	ASP	GLU	conflict	UNP P02218
AV	66	ASP	GLU	conflict	UNP P02218
Aa	66	ASP	GLU	conflict	UNP P02218
Af	66	ASP	GLU	conflict	UNP P02218
Ak	66	ASP	GLU	conflict	UNP P02218
Ap	66	ASP	GLU	conflict	UNP P02218
Au	66	ASP	GLU	conflict	UNP P02218
Az	66	ASP	GLU	conflict	UNP P02218
B2	66	ASP	GLU	conflict	UNP P02218
B3	66	ASP	GLU	conflict	UNP P02218
B7	66	ASP	GLU	conflict	UNP P02218
BA	66	ASP	GLU	conflict	UNP P02218
BE	66	ASP	GLU	conflict	UNP P02218

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Chain	Residue	Modelled	Actual	Comment	Reference
BF	66	ASP	GLU	conflict	UNP P02218
BJ	66	ASP	GLU	conflict	UNP P02218
BK	66	ASP	GLU	conflict	UNP P02218
BO	66	ASP	GLU	conflict	UNP P02218
BP	66	ASP	GLU	conflict	UNP P02218
BT	66	ASP	GLU	conflict	UNP P02218
BU	66	ASP	GLU	conflict	UNP P02218
BY	66	ASP	GLU	conflict	UNP P02218
BZ	66	ASP	GLU	conflict	UNP P02218
Bd	66	ASP	GLU	conflict	UNP P02218
Be	66	ASP	GLU	conflict	UNP P02218
Bi	66	ASP	GLU	conflict	UNP P02218
Bj	66	ASP	GLU	conflict	UNP P02218
Bn	66	ASP	GLU	conflict	UNP P02218
Bo	66	ASP	GLU	conflict	UNP P02218
Bs	66	ASP	GLU	conflict	UNP P02218
Bt	66	ASP	GLU	conflict	UNP P02218
Bx	66	ASP	GLU	conflict	UNP P02218
By	66	ASP	GLU	conflict	UNP P02218

- Molecule 5 is a protein called HEMOGLOBIN CHAIN D1.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	B0	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	B5	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	BC	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	BH	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	BM	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	BR	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	BW	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	Bb	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	Bg	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	Bl	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Bq	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	Bv	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	C4	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	CB	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	CG	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	CL	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	CQ	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	CV	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	Ca	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	Cf	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	Ck	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	Cp	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	Cu	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		
5	Cz	140	Total	C	N	O	S	0	0
			1129	725	198	202	4		

- Molecule 6 is a protein called EXTRACELLULAR GLOBIN-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	B1	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
6	B6	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
6	BD	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
6	BI	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
6	BN	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	BS	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
6	BX	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
6	Bc	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
6	Bh	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
6	Bm	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
6	Br	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		
6	Bw	147	Total	C	N	O	S	0	0
			1209	769	222	214	4		

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B1	78	LYS	ASP	conflict	UNP P13579
B6	78	LYS	ASP	conflict	UNP P13579
BD	78	LYS	ASP	conflict	UNP P13579
BI	78	LYS	ASP	conflict	UNP P13579
BN	78	LYS	ASP	conflict	UNP P13579
BS	78	LYS	ASP	conflict	UNP P13579
BX	78	LYS	ASP	conflict	UNP P13579
Bc	78	LYS	ASP	conflict	UNP P13579
Bh	78	LYS	ASP	conflict	UNP P13579
Bm	78	LYS	ASP	conflict	UNP P13579
Br	78	LYS	ASP	conflict	UNP P13579
Bw	78	LYS	ASP	conflict	UNP P13579

- Molecule 7 is a protein called EXTRACELLULAR GLOBIN-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	B4	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	BB	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	BG	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	BL	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	BQ	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	BV	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	Ba	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	Bf	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	Bk	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	Bp	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	Bu	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	Bz	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	C3	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	CA	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	CF	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	CK	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	CP	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	CU	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	CZ	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	Ce	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	Cj	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	Co	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	Ct	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		
7	Cy	149	Total	C	N	O	S	0	0
			1190	758	212	217	3		

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B4	49	GLU	ASP	conflict	UNP P11069
BB	49	GLU	ASP	conflict	UNP P11069
BG	49	GLU	ASP	conflict	UNP P11069
BL	49	GLU	ASP	conflict	UNP P11069
BQ	49	GLU	ASP	conflict	UNP P11069
BV	49	GLU	ASP	conflict	UNP P11069
Ba	49	GLU	ASP	conflict	UNP P11069
Bf	49	GLU	ASP	conflict	UNP P11069
Bk	49	GLU	ASP	conflict	UNP P11069
Bp	49	GLU	ASP	conflict	UNP P11069
Bu	49	GLU	ASP	conflict	UNP P11069
Bz	49	GLU	ASP	conflict	UNP P11069
C3	49	GLU	ASP	conflict	UNP P11069
CA	49	GLU	ASP	conflict	UNP P11069
CF	49	GLU	ASP	conflict	UNP P11069
CK	49	GLU	ASP	conflict	UNP P11069
CP	49	GLU	ASP	conflict	UNP P11069
CU	49	GLU	ASP	conflict	UNP P11069
CZ	49	GLU	ASP	conflict	UNP P11069
Ce	49	GLU	ASP	conflict	UNP P11069
Cj	49	GLU	ASP	conflict	UNP P11069
Co	49	GLU	ASP	conflict	UNP P11069
Ct	49	GLU	ASP	conflict	UNP P11069
Cy	49	GLU	ASP	conflict	UNP P11069

- Molecule 8 is a protein called HEMOGLOBIN LINKER CHAIN L1.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	C0	217	Total	C	N	O	S	0	0
			1751	1089	308	344	10		
8	C5	217	Total	C	N	O	S	0	0
			1751	1089	308	344	10		
8	CC	217	Total	C	N	O	S	0	0
			1751	1089	308	344	10		
8	CH	217	Total	C	N	O	S	0	0
			1751	1089	308	344	10		
8	CM	217	Total	C	N	O	S	0	0
			1751	1089	308	344	10		
8	CR	217	Total	C	N	O	S	0	0
			1751	1089	308	344	10		
8	CW	217	Total	C	N	O	S	0	0
			1751	1089	308	344	10		
8	Cb	217	Total	C	N	O	S	0	0
			1751	1089	308	344	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	Cg	217	Total	C	N	O	S	0	0
			1751	1089	308	344	10		
8	Cl	217	Total	C	N	O	S	0	0
			1751	1089	308	344	10		
8	Cq	217	Total	C	N	O	S	0	0
			1751	1089	308	344	10		
8	Cv	217	Total	C	N	O	S	0	0
			1751	1089	308	344	10		

- Molecule 9 is a protein called EXTRACELLULAR HEMOGLOBIN LINKER L2 SUBUNIT.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	C1	220	Total	C	N	O	S	0	0
			1755	1080	324	341	10		
9	C6	220	Total	C	N	O	S	0	0
			1755	1080	324	341	10		
9	CD	220	Total	C	N	O	S	0	0
			1755	1080	324	341	10		
9	CI	220	Total	C	N	O	S	0	0
			1755	1080	324	341	10		
9	CN	220	Total	C	N	O	S	0	0
			1755	1080	324	341	10		
9	CS	220	Total	C	N	O	S	0	0
			1755	1080	324	341	10		
9	CX	220	Total	C	N	O	S	0	0
			1755	1080	324	341	10		
9	Cc	220	Total	C	N	O	S	0	0
			1755	1080	324	341	10		
9	Ch	220	Total	C	N	O	S	0	0
			1755	1080	324	341	10		
9	Cm	220	Total	C	N	O	S	0	0
			1755	1080	324	341	10		
9	Cr	220	Total	C	N	O	S	0	0
			1755	1080	324	341	10		
9	Cw	220	Total	C	N	O	S	0	0
			1755	1080	324	341	10		

- Molecule 10 is a protein called EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	C2	215	Total	C	N	O	S	0	0
			1715	1055	299	350	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
10	C7	215	Total	C	N	O	S	0	0
			1715	1055	299	350	11		
10	CE	215	Total	C	N	O	S	0	0
			1715	1055	299	350	11		
10	CJ	215	Total	C	N	O	S	0	0
			1715	1055	299	350	11		
10	CO	215	Total	C	N	O	S	0	0
			1715	1055	299	350	11		
10	CT	215	Total	C	N	O	S	0	0
			1715	1055	299	350	11		
10	CY	215	Total	C	N	O	S	0	0
			1715	1055	299	350	11		
10	Cd	215	Total	C	N	O	S	0	0
			1715	1055	299	350	11		
10	Ci	215	Total	C	N	O	S	0	0
			1715	1055	299	350	11		
10	Cn	215	Total	C	N	O	S	0	0
			1715	1055	299	350	11		
10	Cs	215	Total	C	N	O	S	0	0
			1715	1055	299	350	11		
10	Cx	215	Total	C	N	O	S	0	0
			1715	1055	299	350	11		

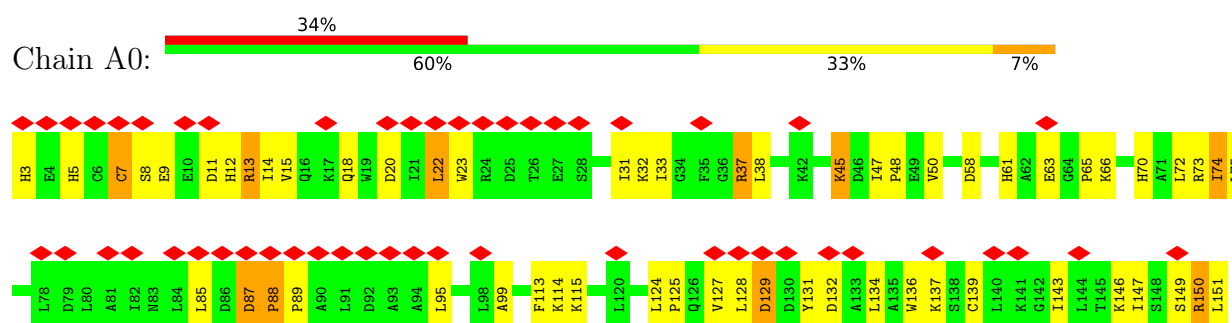
There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C2	113	CYS	VAL	conflict	UNP Q2I742
C7	113	CYS	VAL	conflict	UNP Q2I742
CE	113	CYS	VAL	conflict	UNP Q2I742
CJ	113	CYS	VAL	conflict	UNP Q2I742
CO	113	CYS	VAL	conflict	UNP Q2I742
CT	113	CYS	VAL	conflict	UNP Q2I742
CY	113	CYS	VAL	conflict	UNP Q2I742
Cd	113	CYS	VAL	conflict	UNP Q2I742
Ci	113	CYS	VAL	conflict	UNP Q2I742
Cn	113	CYS	VAL	conflict	UNP Q2I742
Cs	113	CYS	VAL	conflict	UNP Q2I742
Cx	113	CYS	VAL	conflict	UNP Q2I742

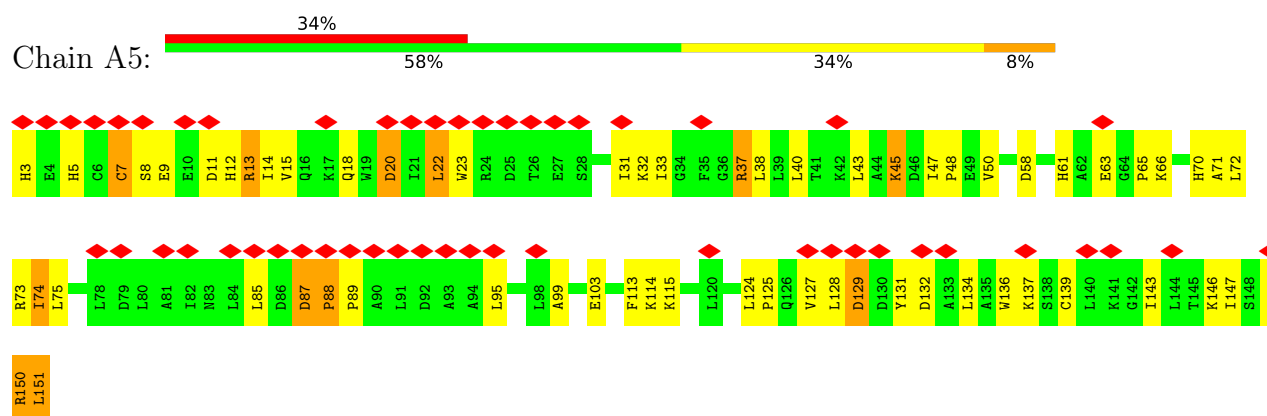
3 Residue-property plots

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

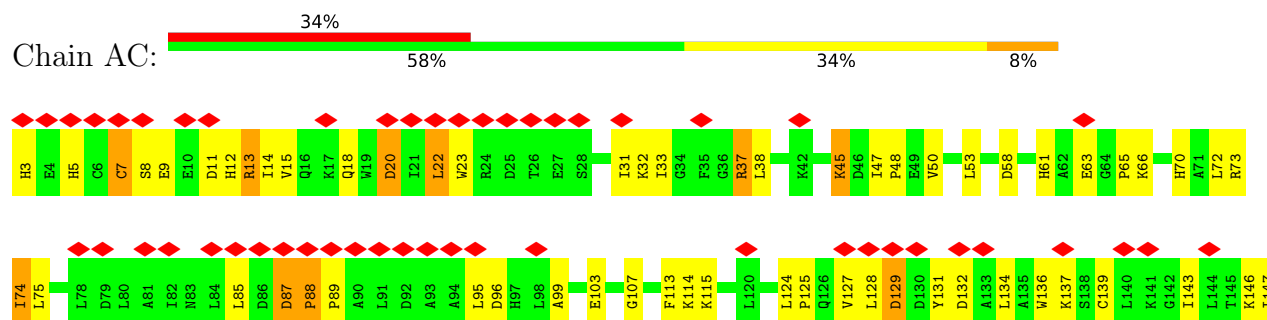
• Molecule 1: EXTRACELLULAR GLOBIN-3



• Molecule 1: EXTRACELLULAR GLOBIN-3

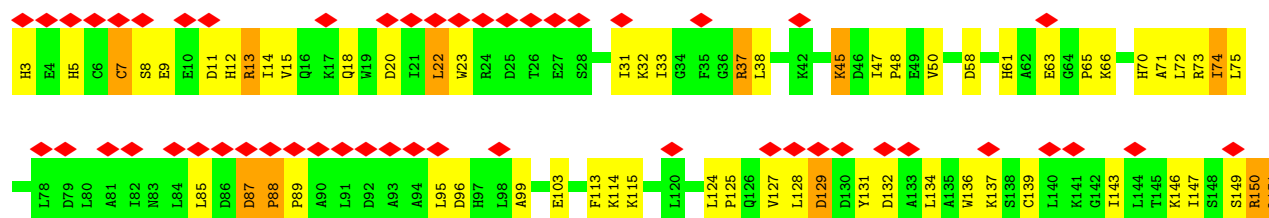


• Molecule 1: EXTRACELLULAR GLOBIN-3

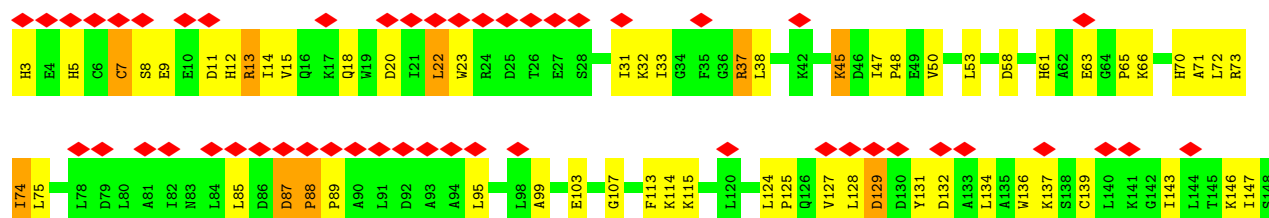




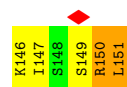
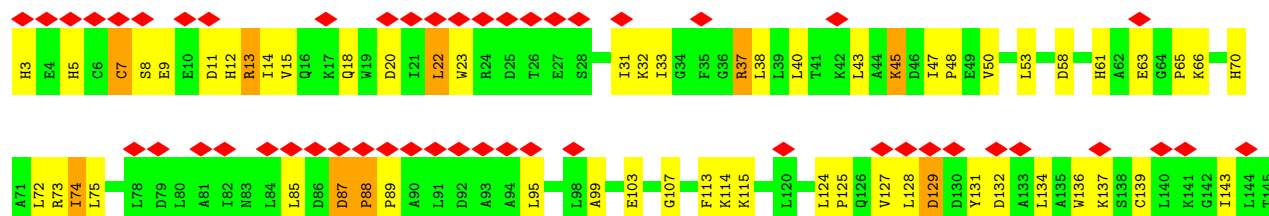
• Molecule 1: EXTRACELLULAR GLOBIN-3



• Molecule 1: EXTRACELLULAR GLOBIN-3

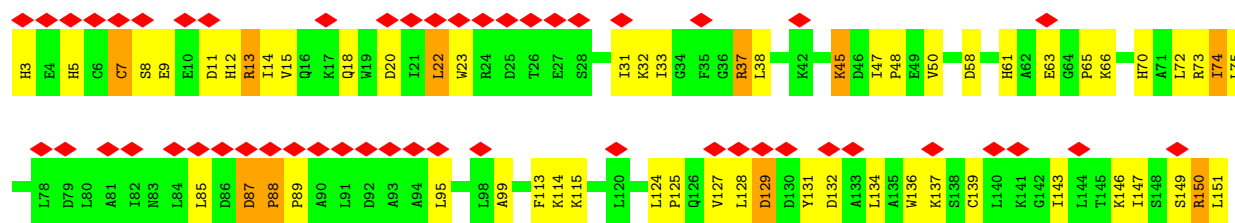


• Molecule 1: EXTRACELLULAR GLOBIN-3

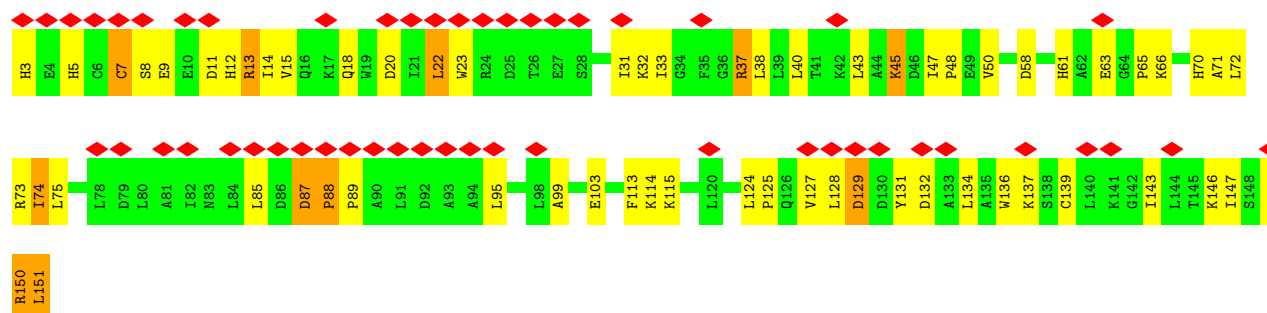


• Molecule 1: EXTRACELLULAR GLOBIN-3

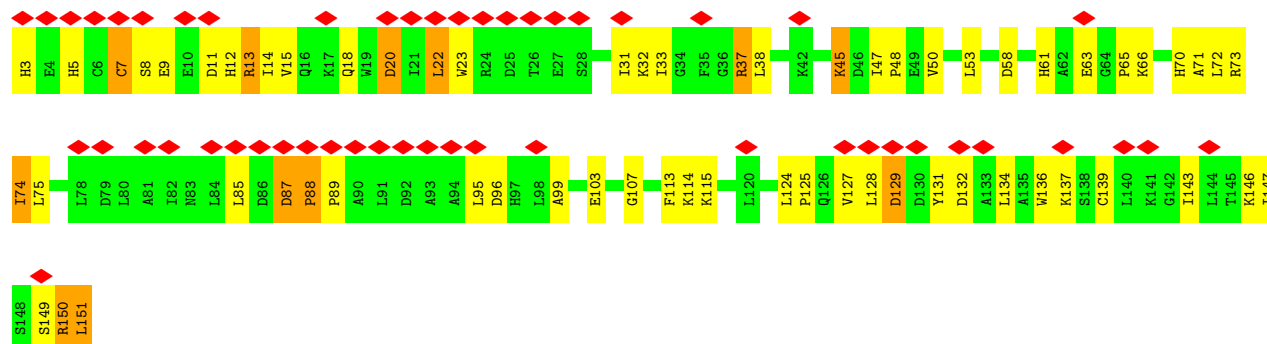




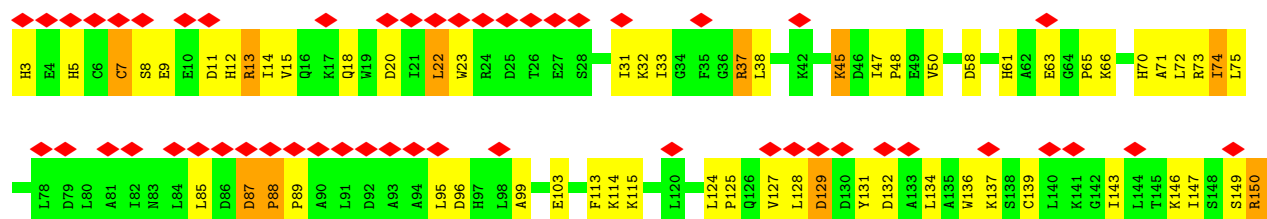
• Molecule 1: EXTRACELLULAR GLOBIN-3



• Molecule 1: EXTRACELLULAR GLOBIN-3

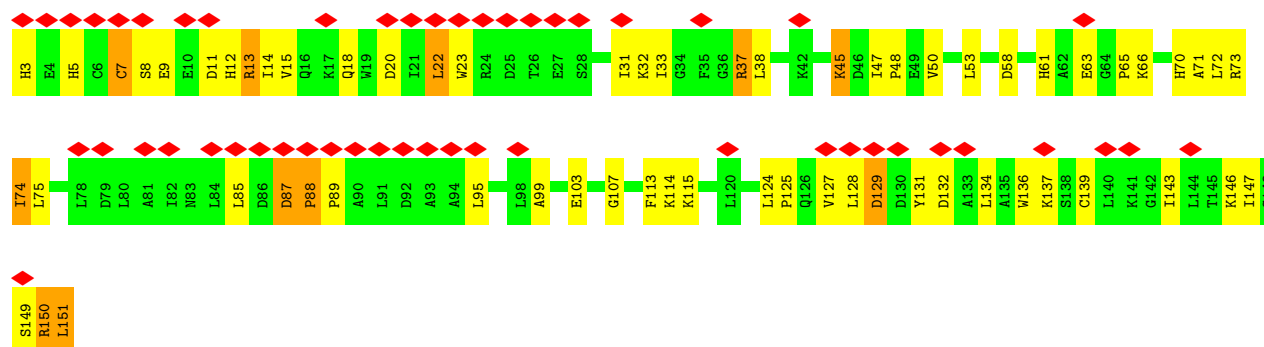


• Molecule 1: EXTRACELLULAR GLOBIN-3

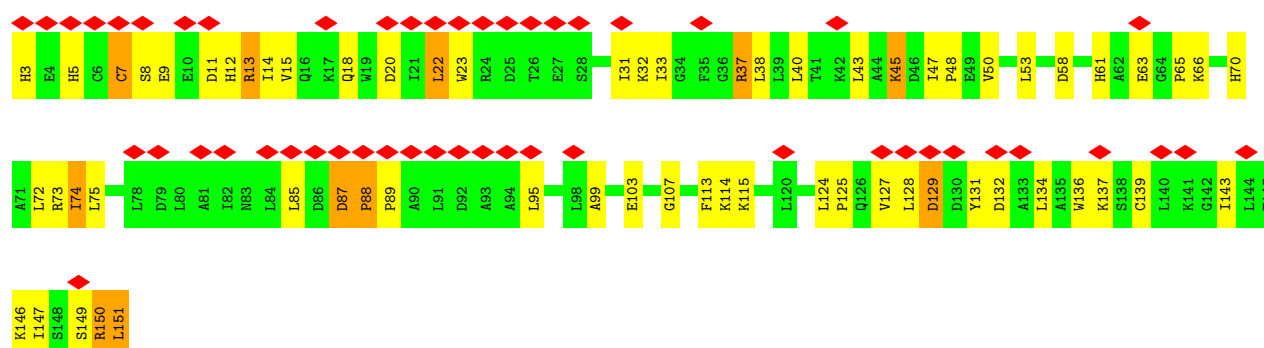


• Molecule 1: EXTRACELLULAR GLOBIN-3

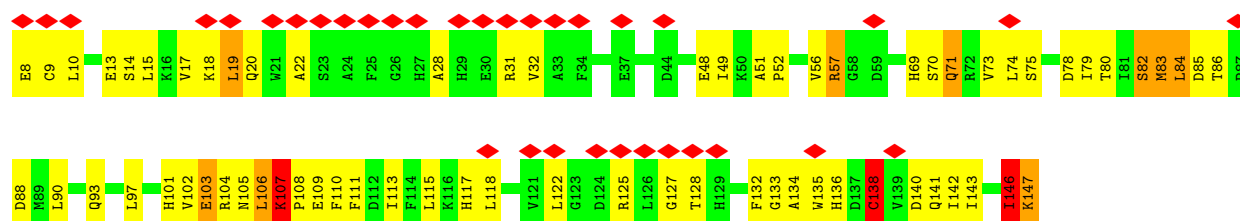




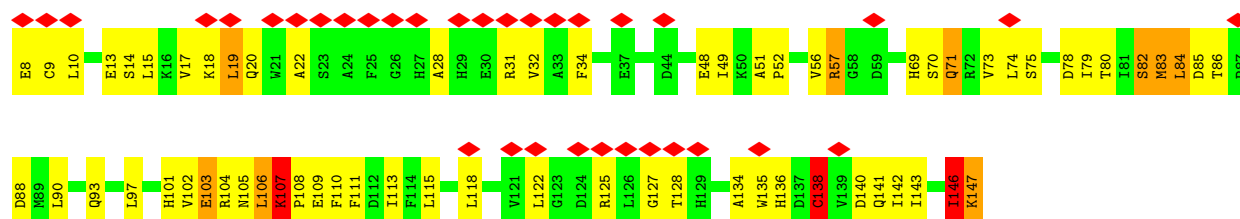
• Molecule 1: EXTRACELLULAR GLOBIN-3



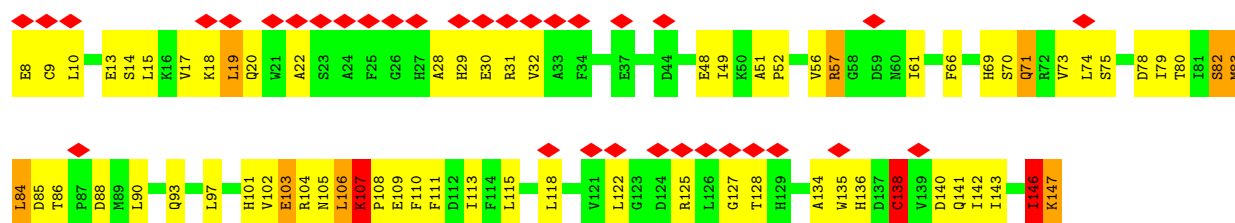
• Molecule 2: HEMOGLOBIN CHAIN D1



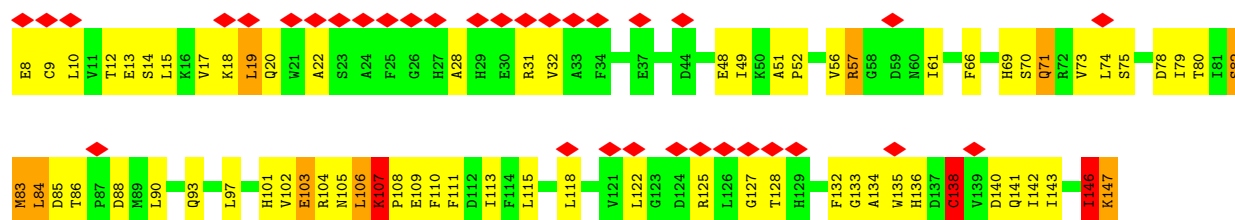
• Molecule 2: HEMOGLOBIN CHAIN D1



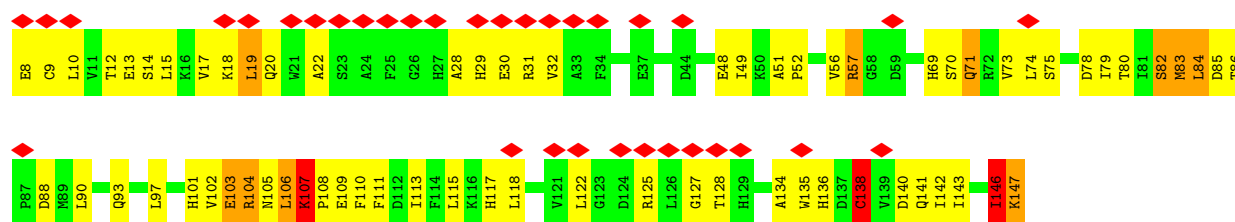
• Molecule 2: HEMOGLOBIN CHAIN D1



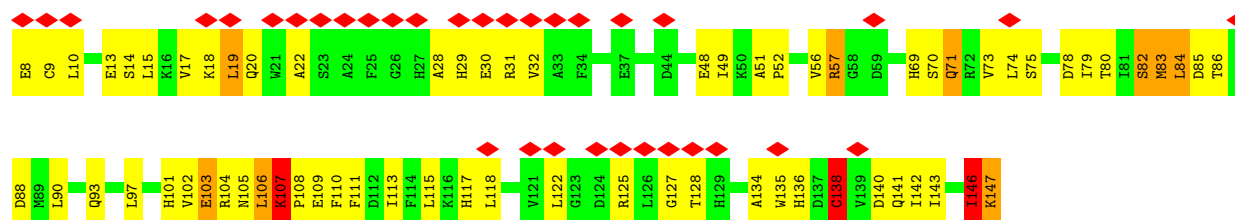
• Molecule 2: HEMOGLOBIN CHAIN D1



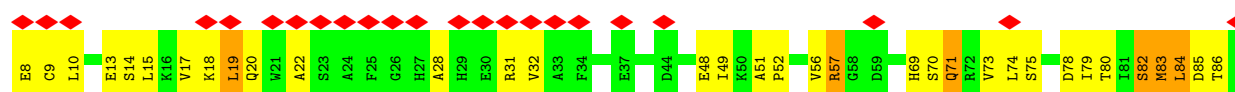
• Molecule 2: HEMOGLOBIN CHAIN D1

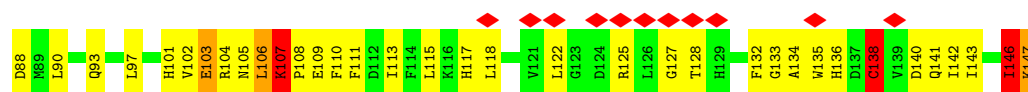


• Molecule 2: HEMOGLOBIN CHAIN D1

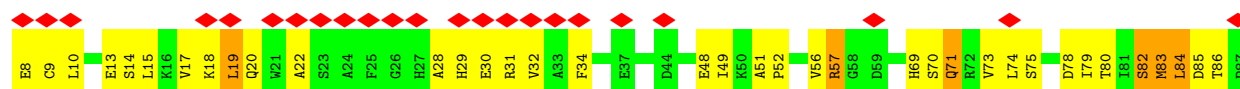


• Molecule 2: HEMOGLOBIN CHAIN D1

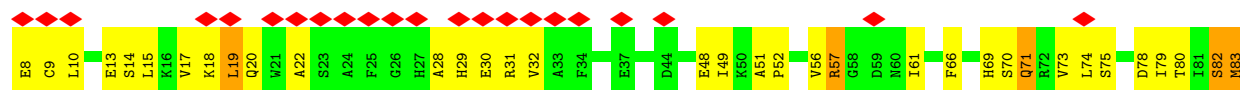




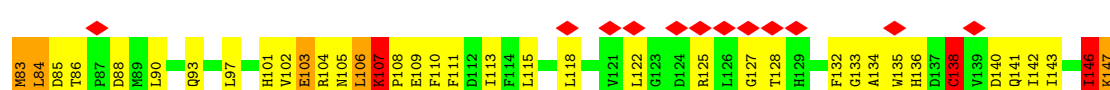
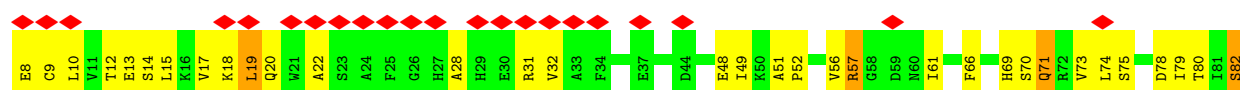
• Molecule 2: HEMOGLOBIN CHAIN D1



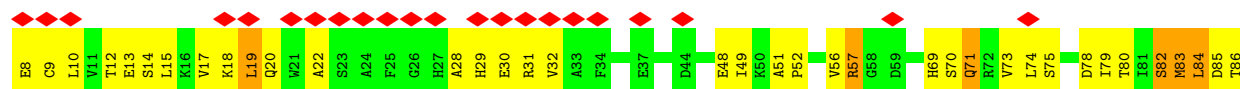
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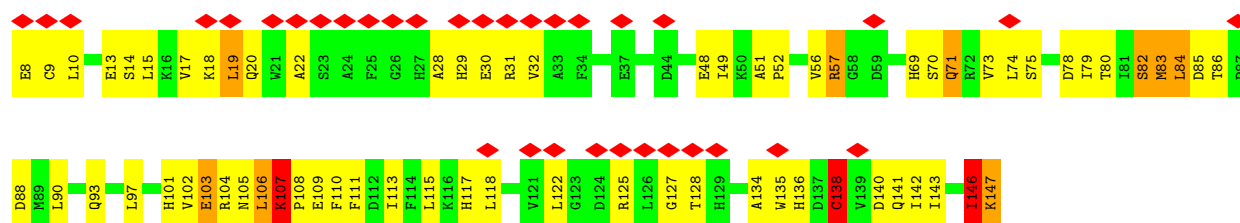
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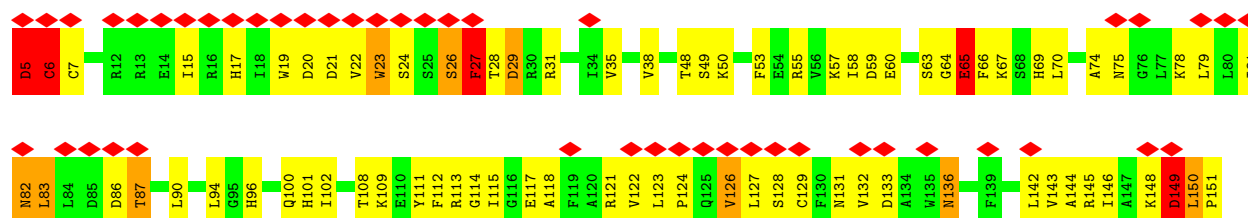
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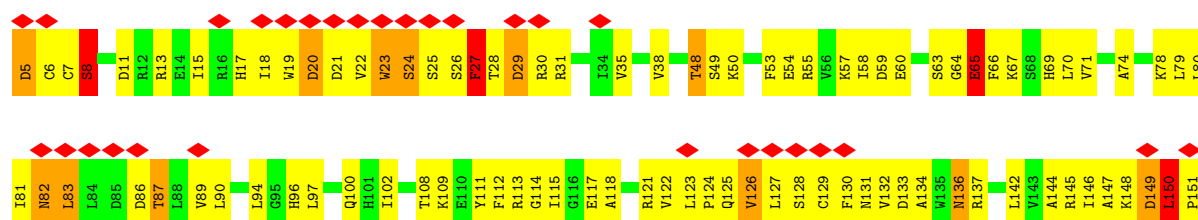
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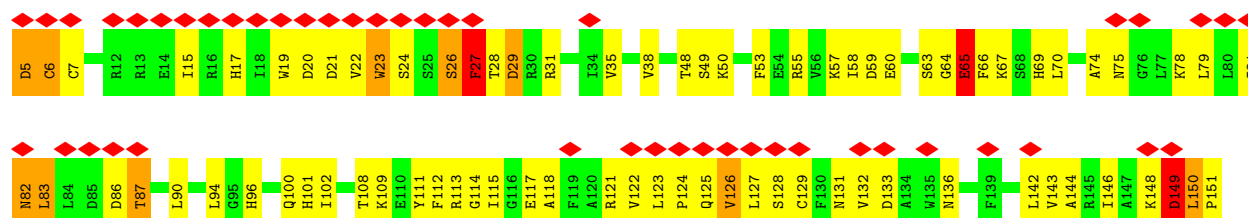
• Molecule 3: EXTRACELLULAR GLOBIN-4



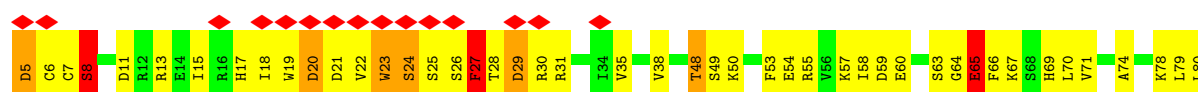
• Molecule 3: EXTRACELLULAR GLOBIN-4

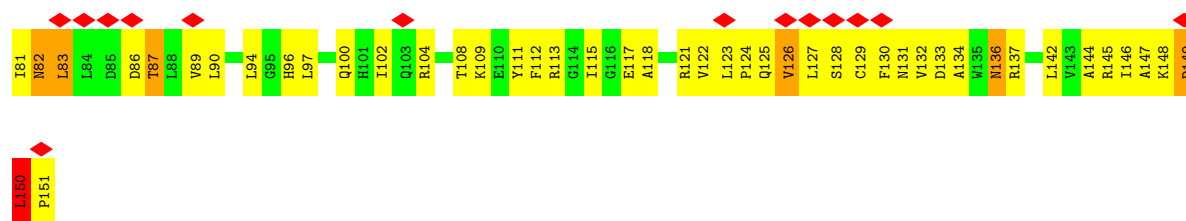


• Molecule 3: EXTRACELLULAR GLOBIN-4

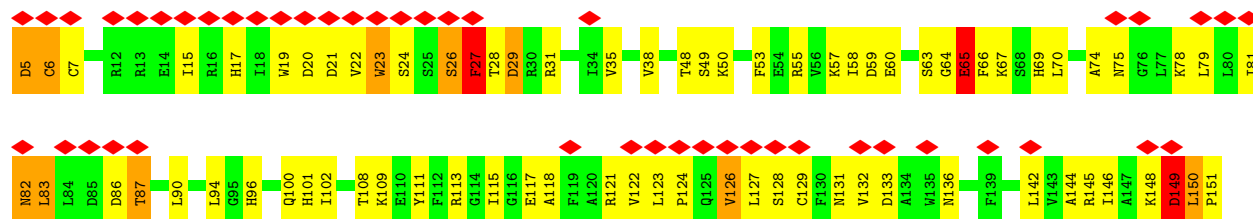


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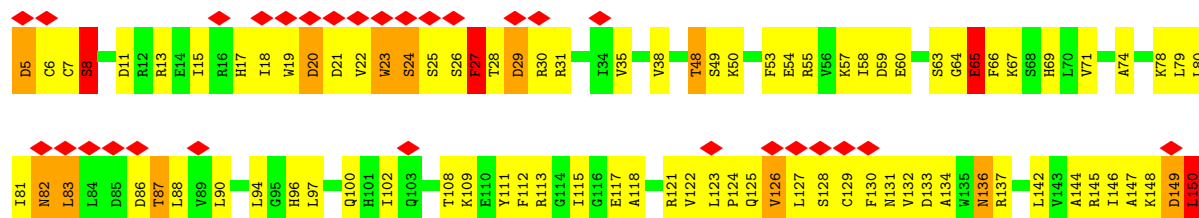
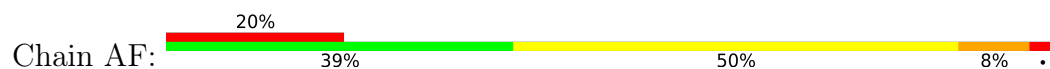




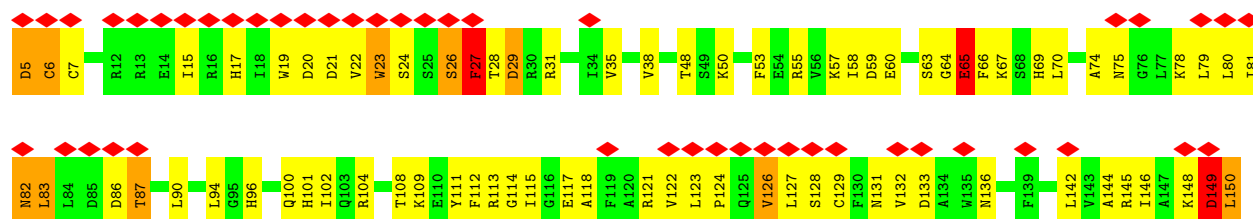
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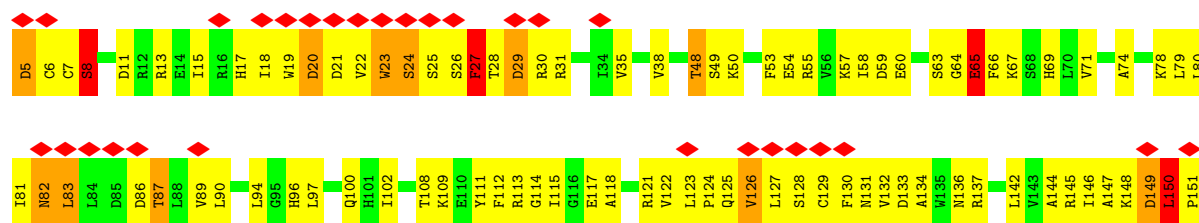


- Molecule 3: EXTRACELLULAR GLOBIN-4

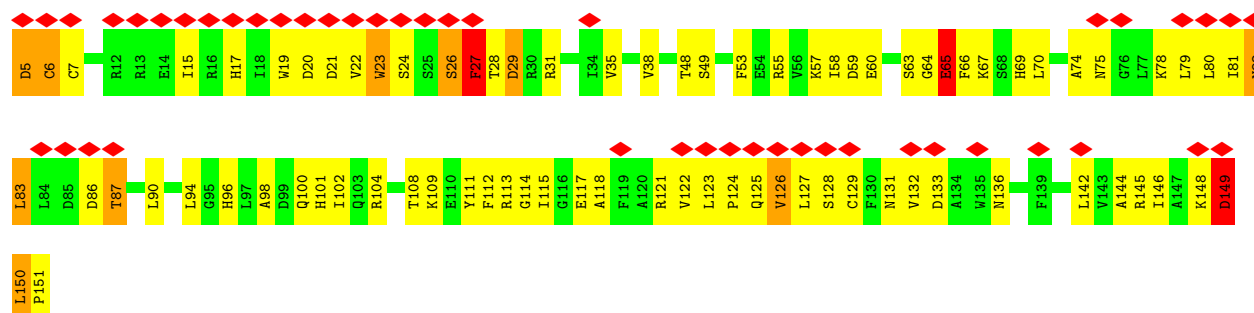


- Molecule 3: EXTRACELLULAR GLOBIN-4

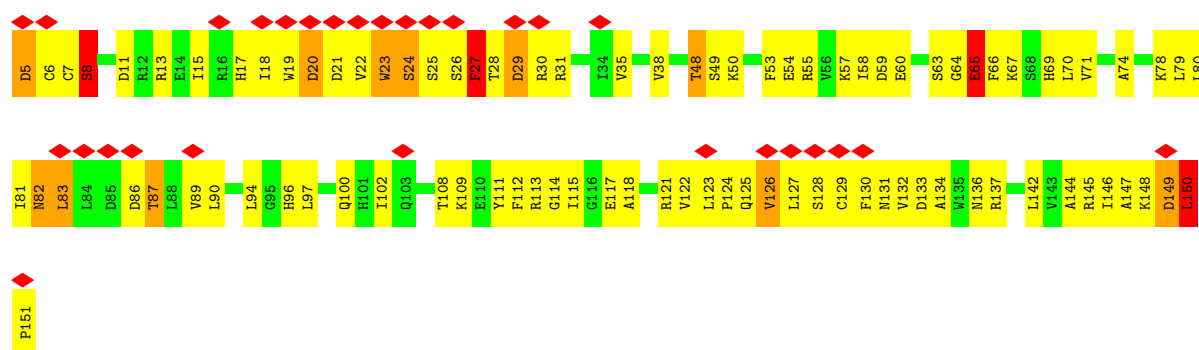




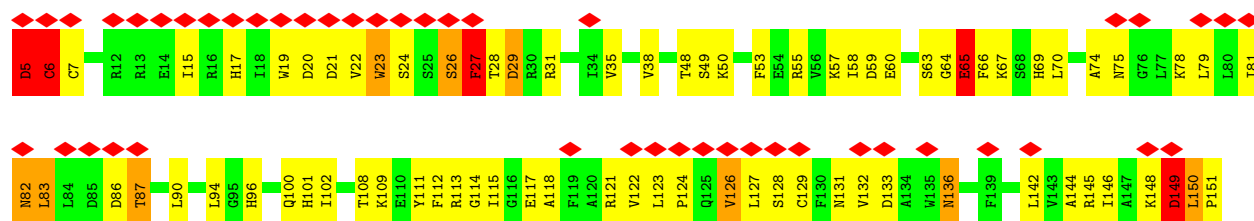
• Molecule 3: EXTRACELLULAR GLOBIN-4



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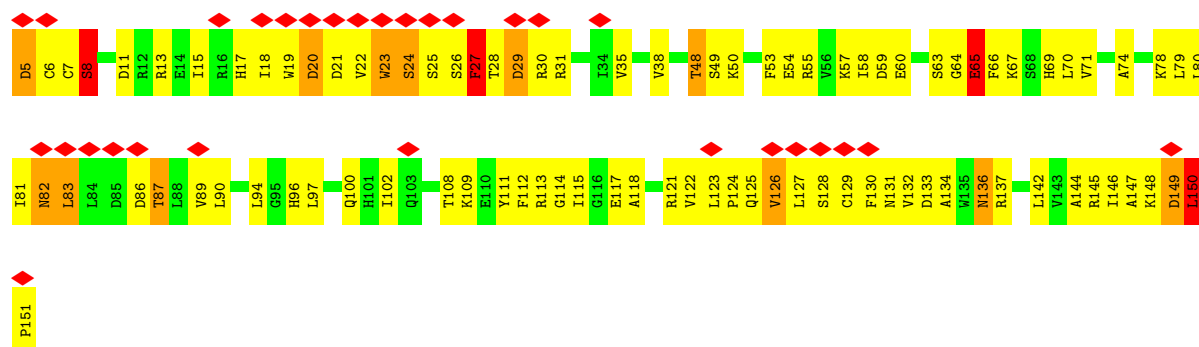


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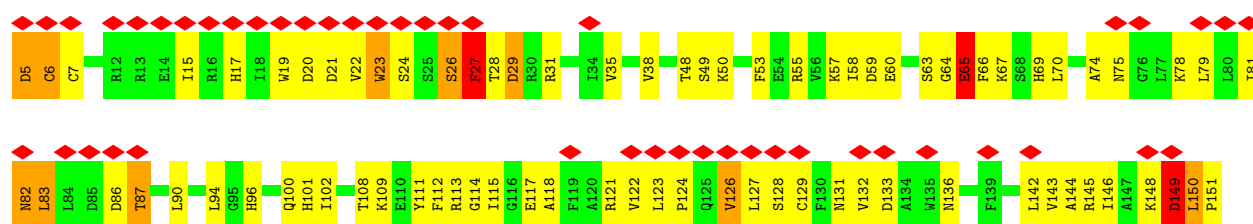


• Molecule 3: EXTRACELLULAR GLOBIN-4

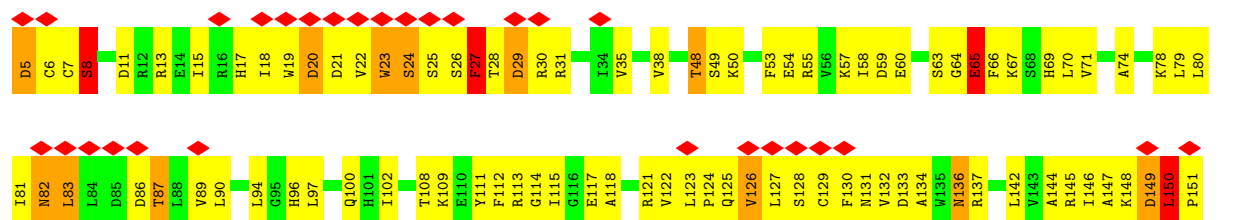




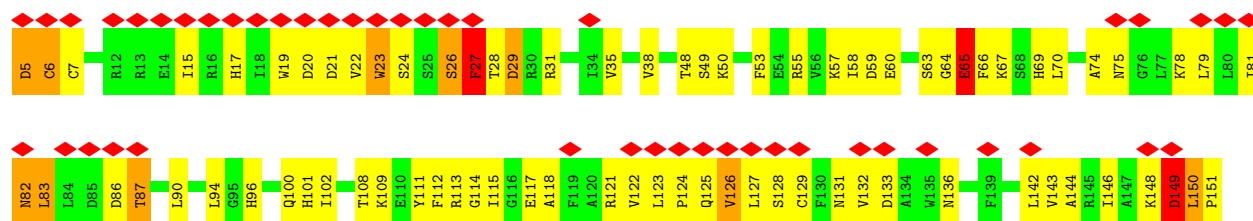
• Molecule 3: EXTRACELLULAR GLOBIN-4



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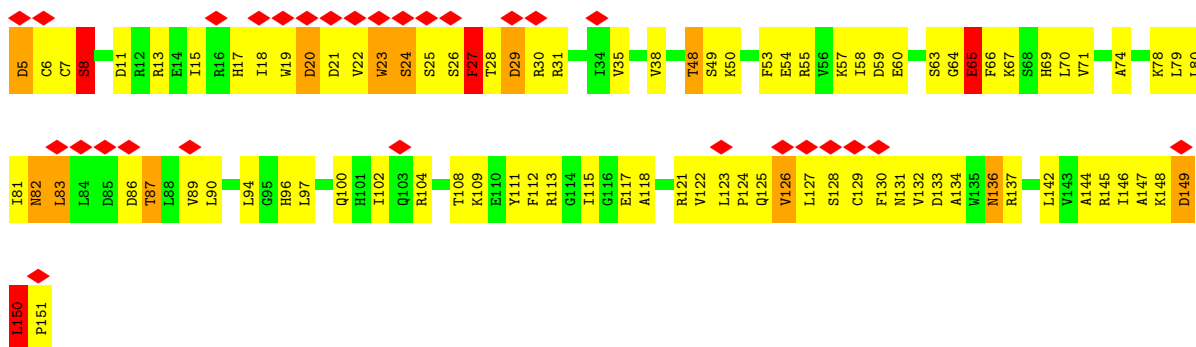


• Molecule 3: EXTRACELLULAR GLOBIN-4

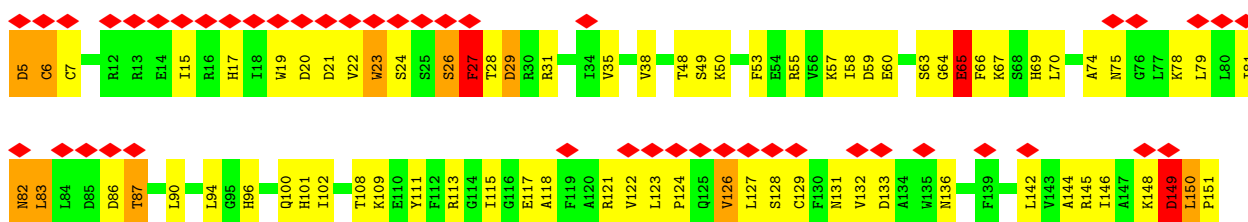


• Molecule 3: EXTRACELLULAR GLOBIN-4

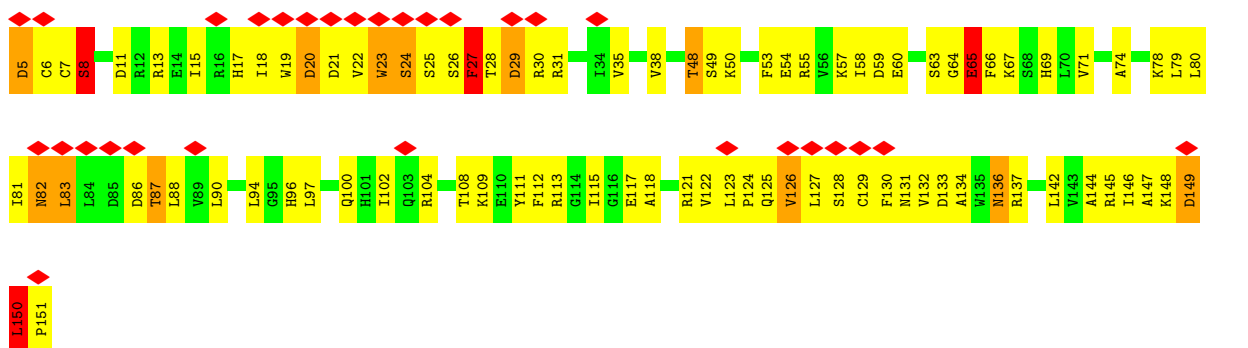




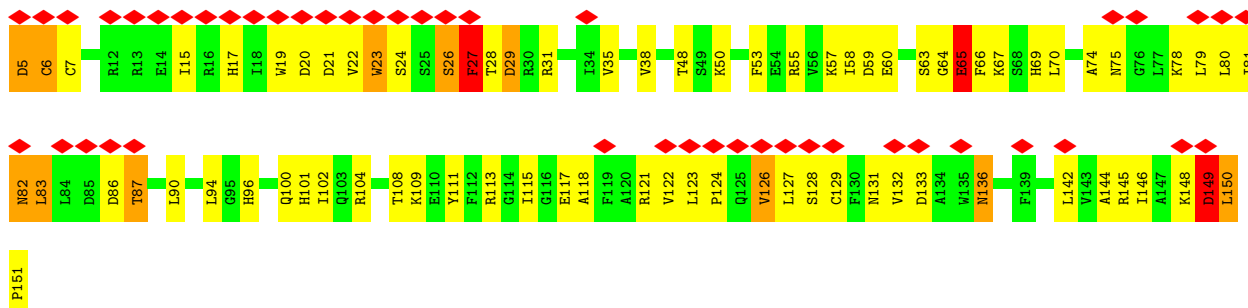
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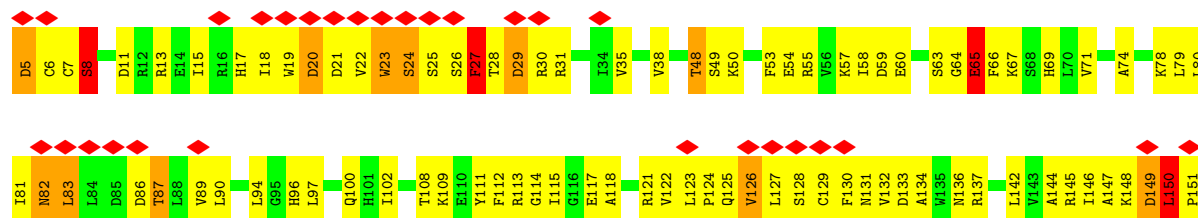
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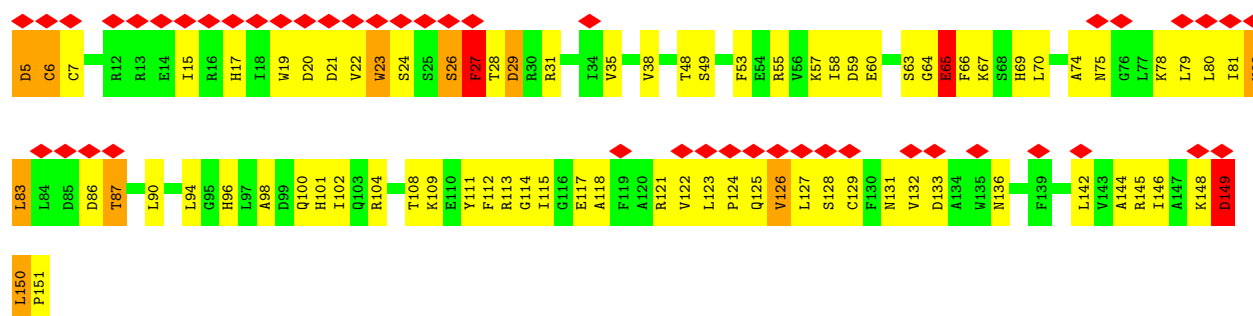
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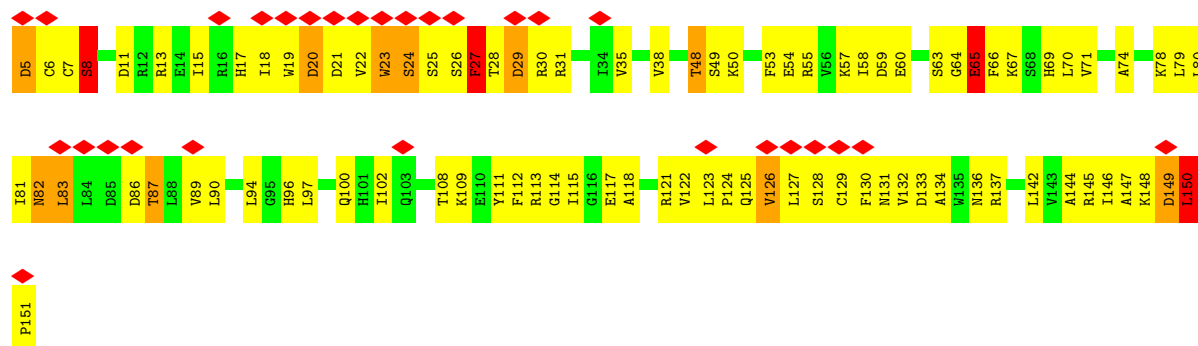
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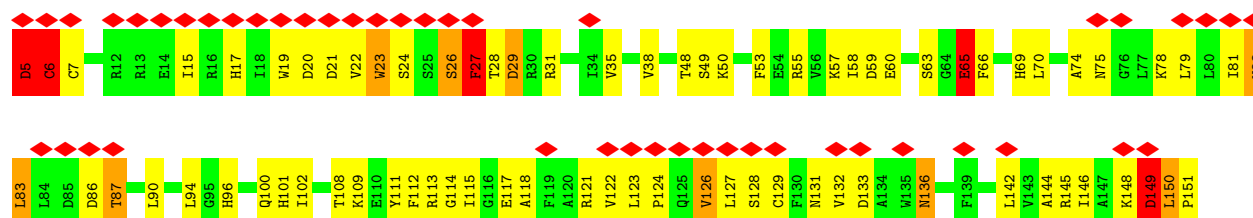
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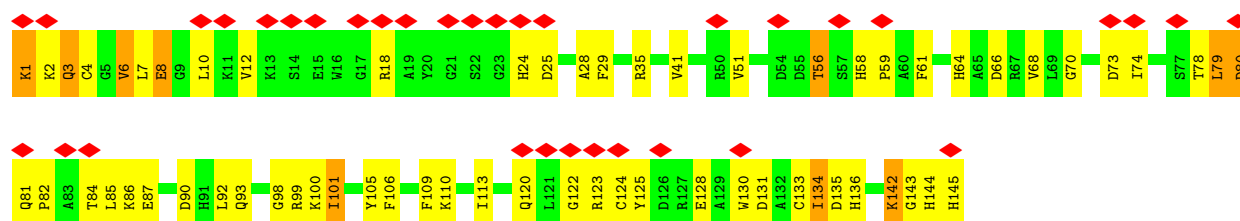


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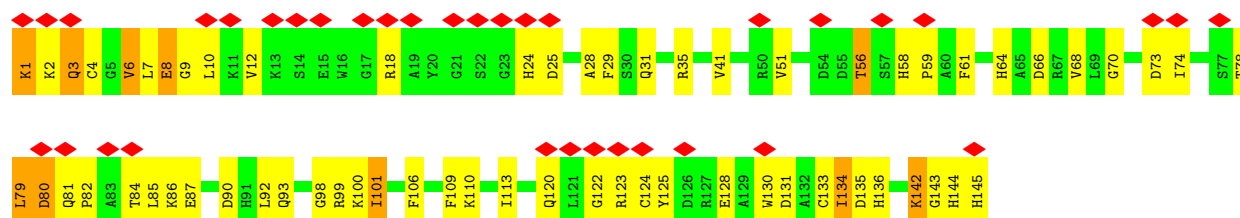


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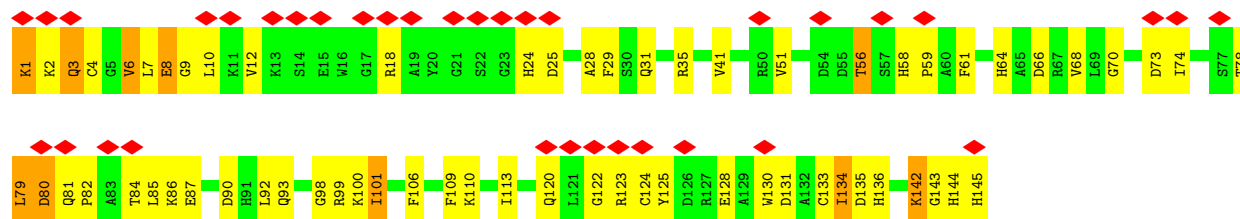




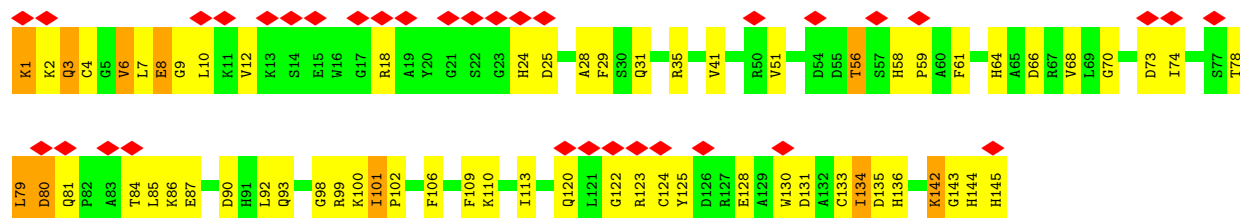
• Molecule 4: EXTRACELLULAR GLOBIN-2



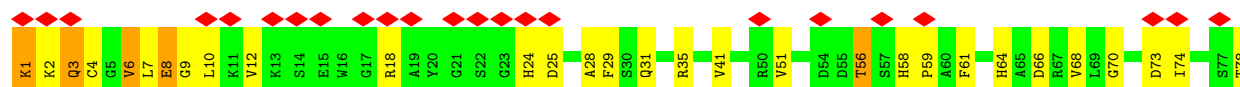
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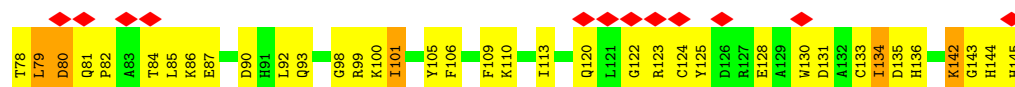
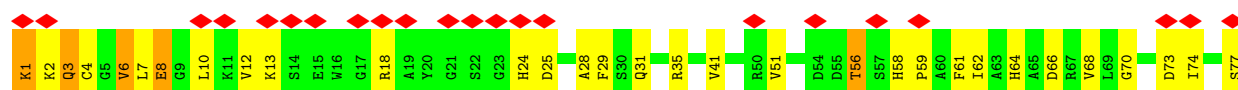




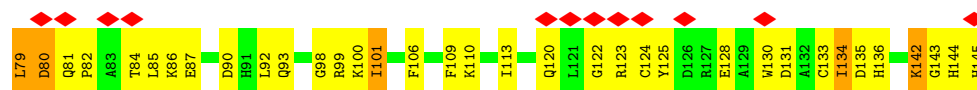
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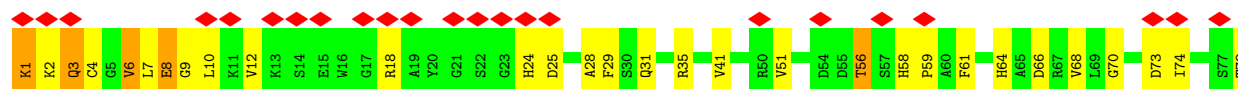
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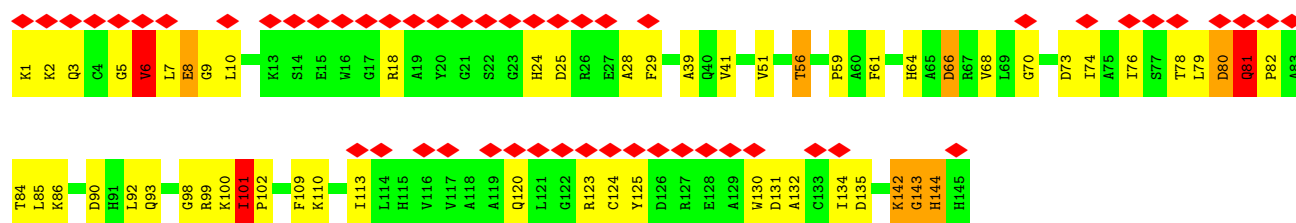
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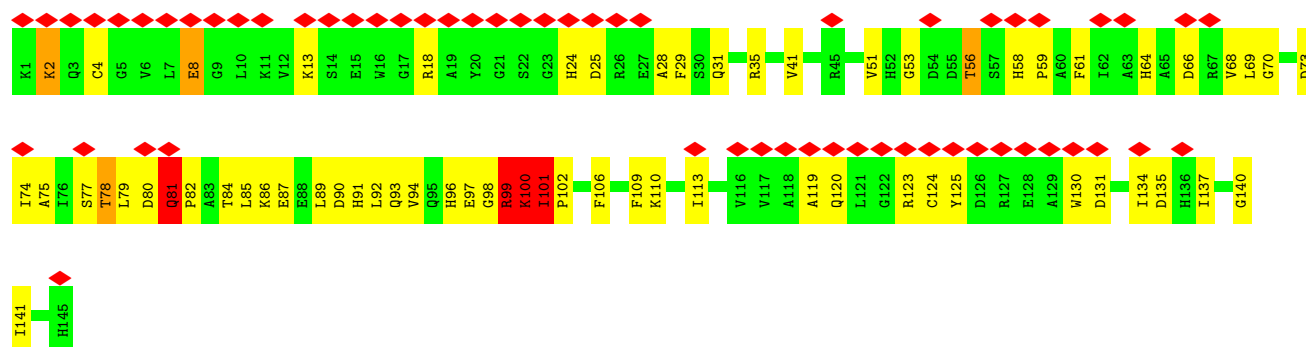
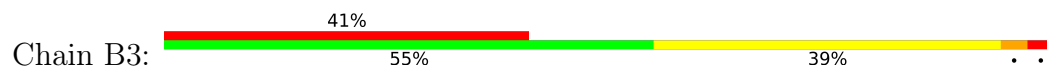
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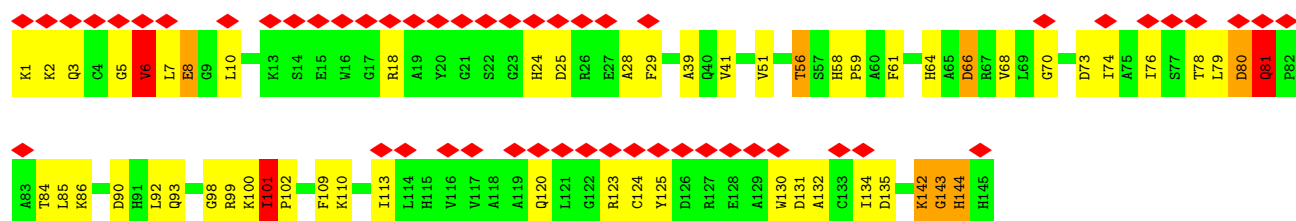
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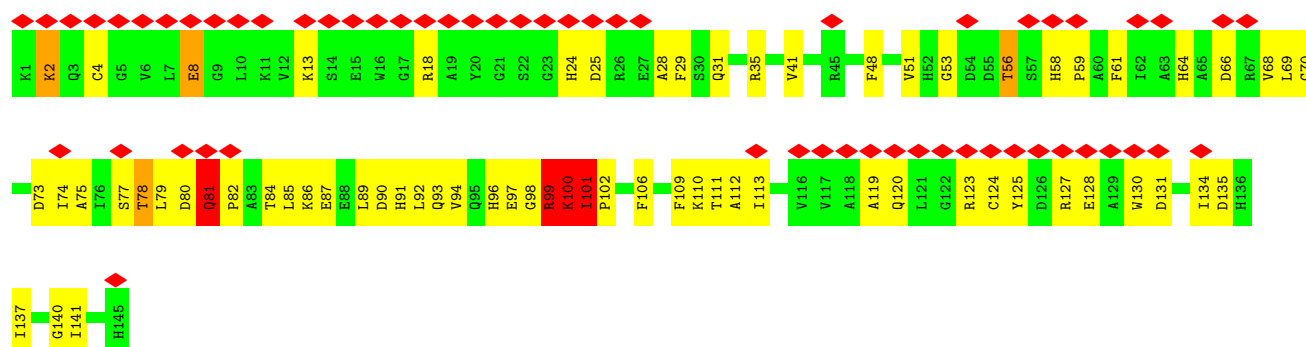
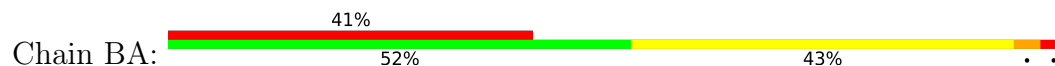
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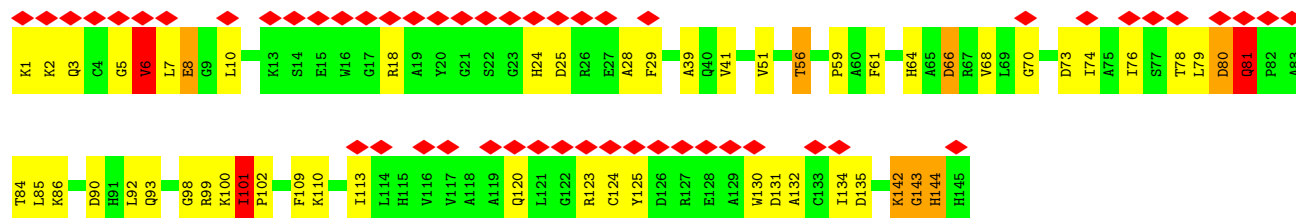


• Molecule 4: EXTRACELLULAR GLOBIN-2

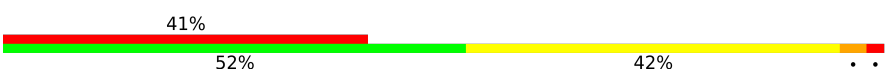


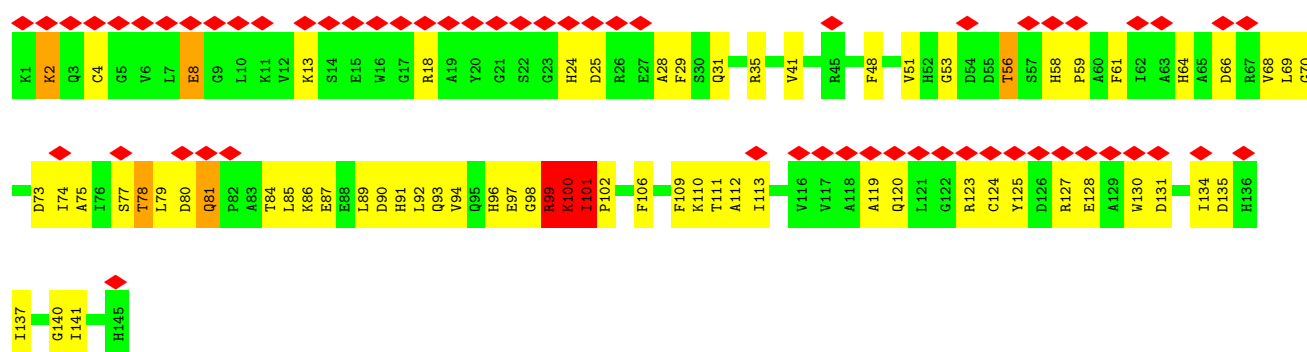
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Chain BE: 



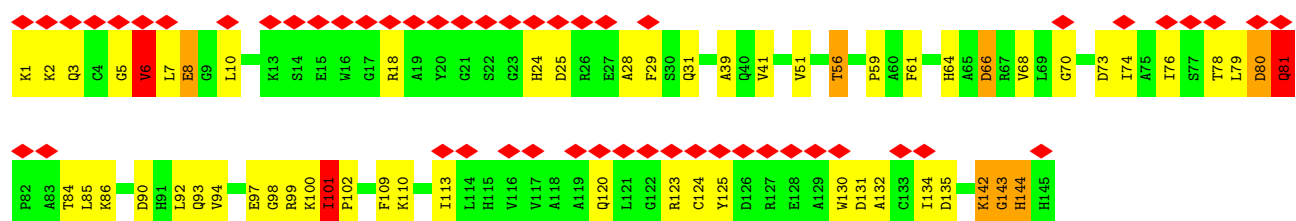
• Molecule 4: EXTRACELLULAR GLOBIN-2

Chain BF: 



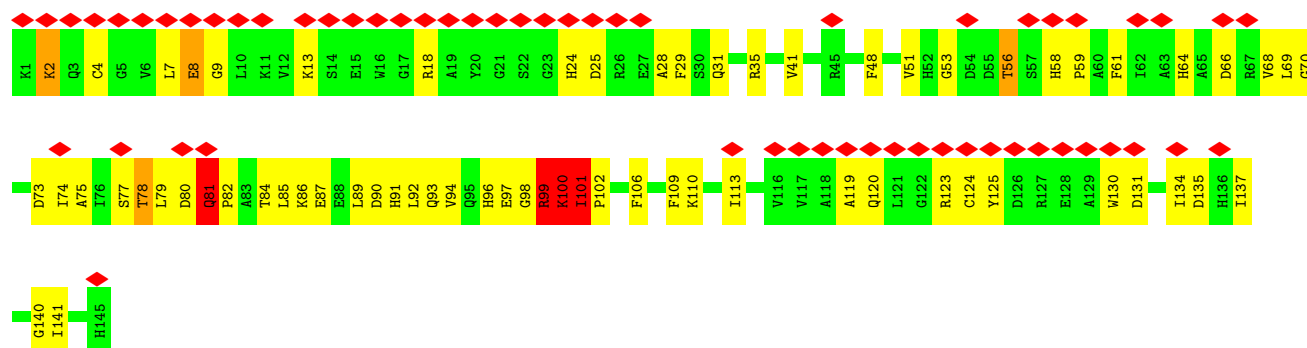
• Molecule 4: EXTRACELLULAR GLOBIN-2

Chain BJ: 

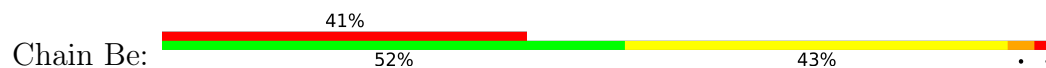
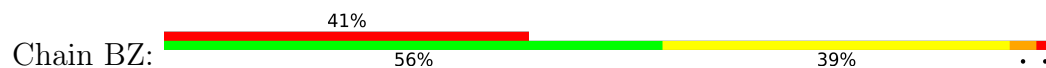


• Molecule 4: EXTRACELLULAR GLOBIN-2

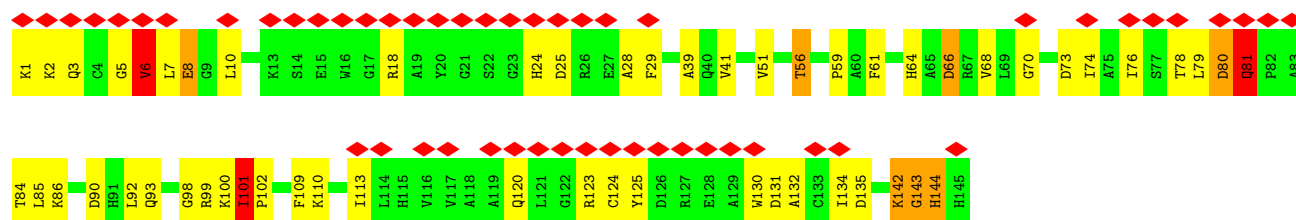
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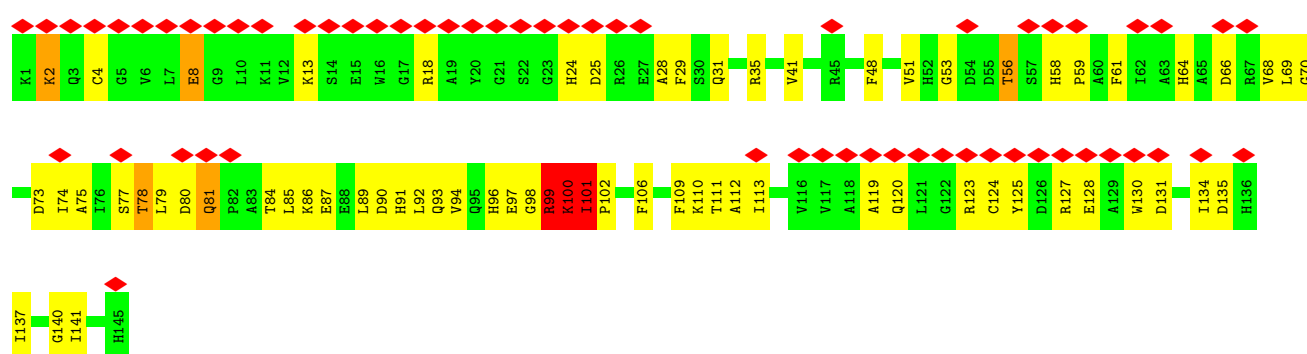
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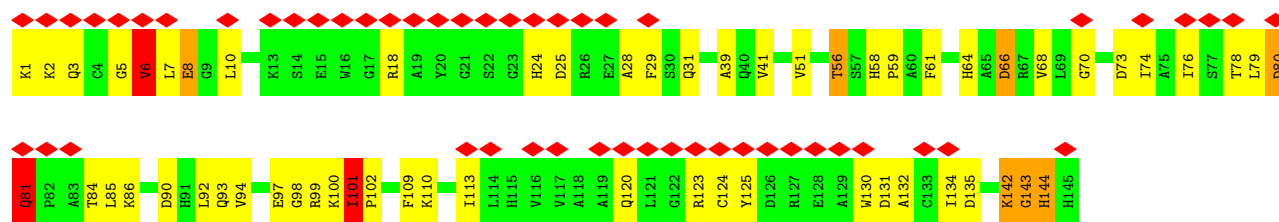
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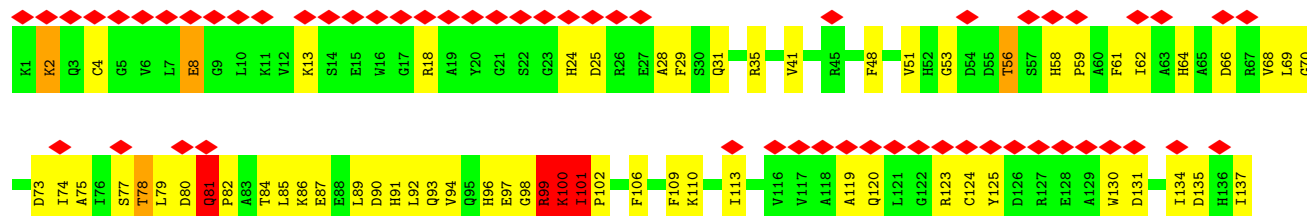
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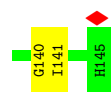


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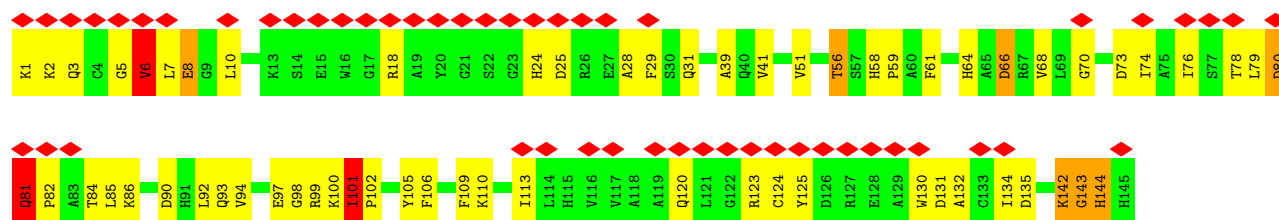


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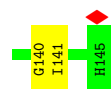
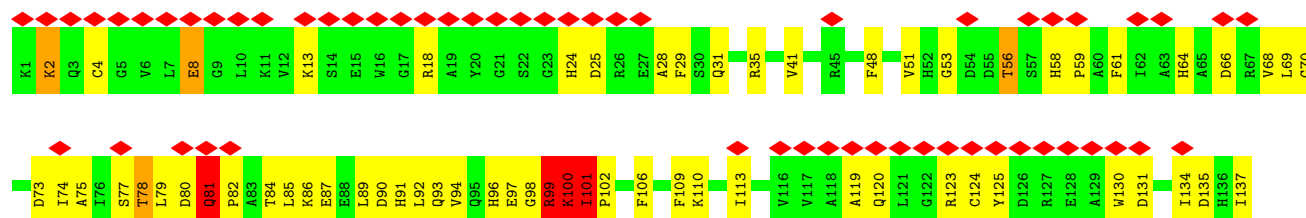
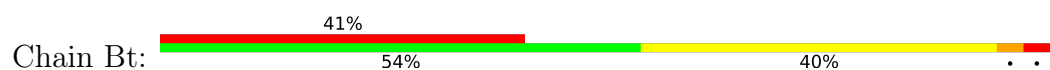




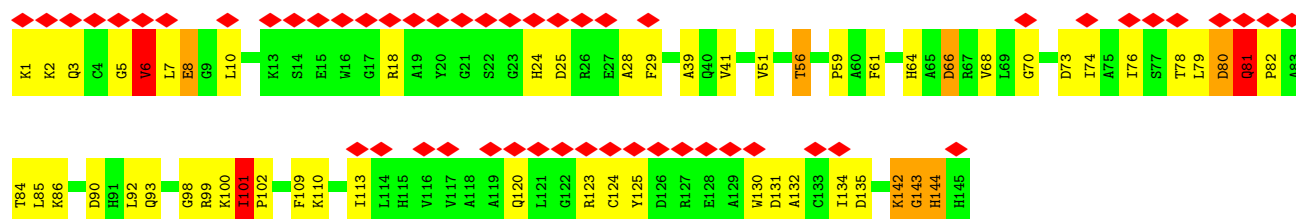
• Molecule 4: EXTRACELLULAR GLOBIN-2



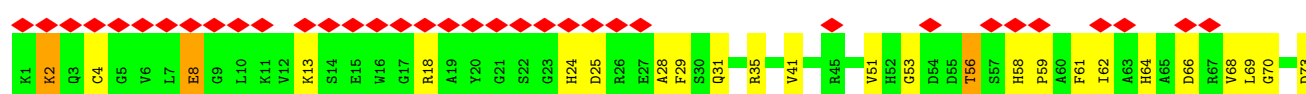
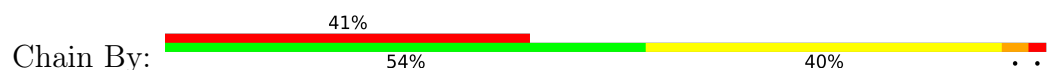
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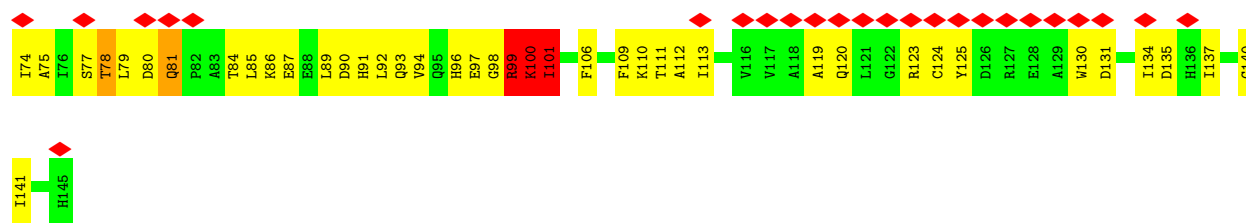


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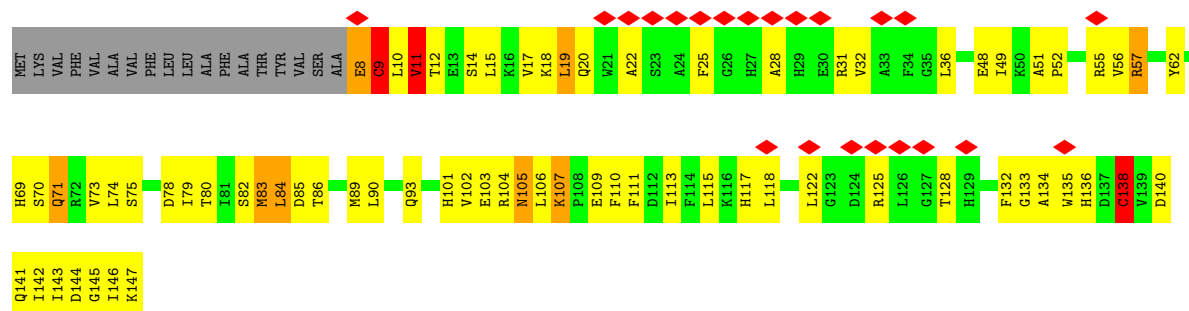
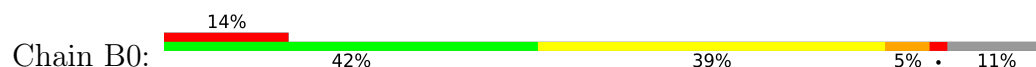


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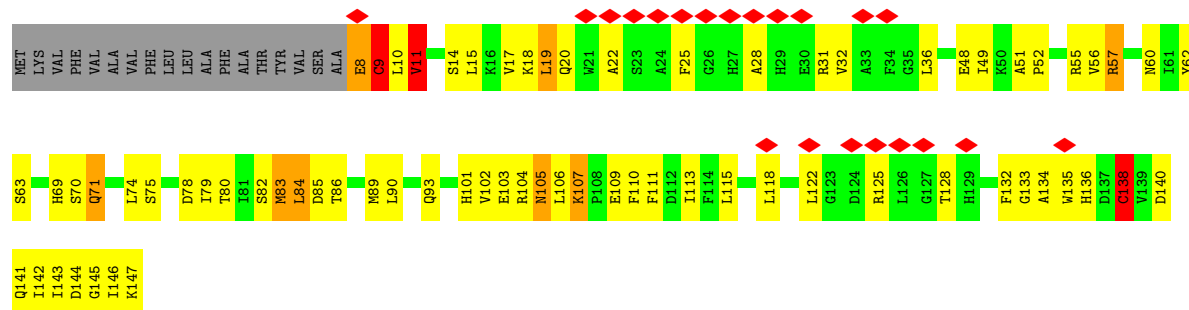
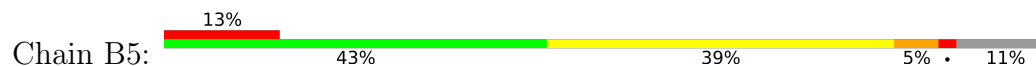




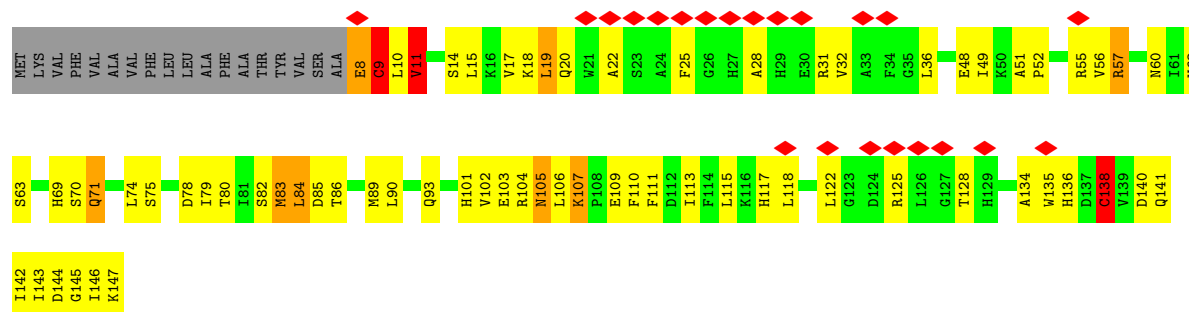
- Molecule 5: HEMOGLOBIN CHAIN D1



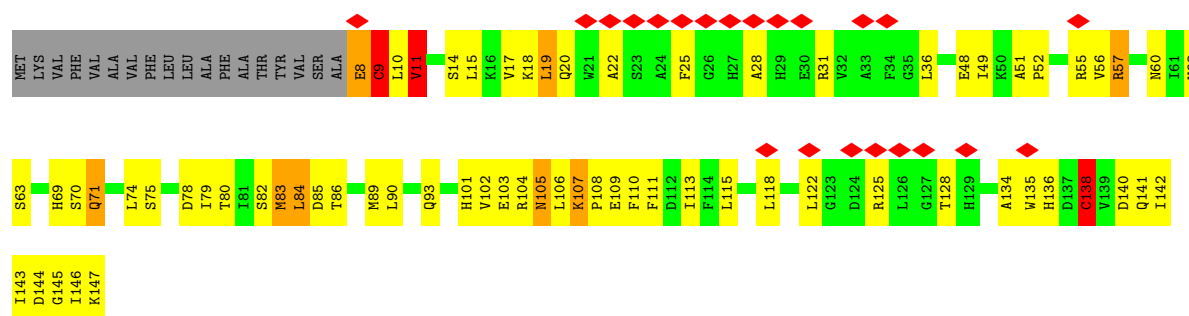
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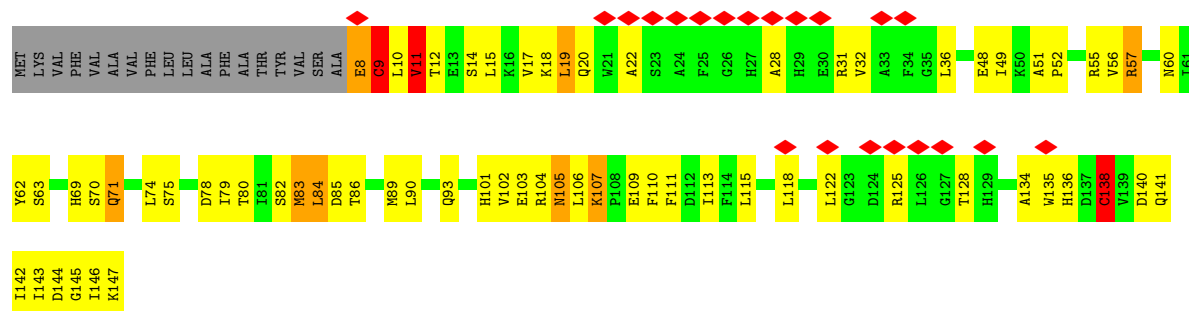
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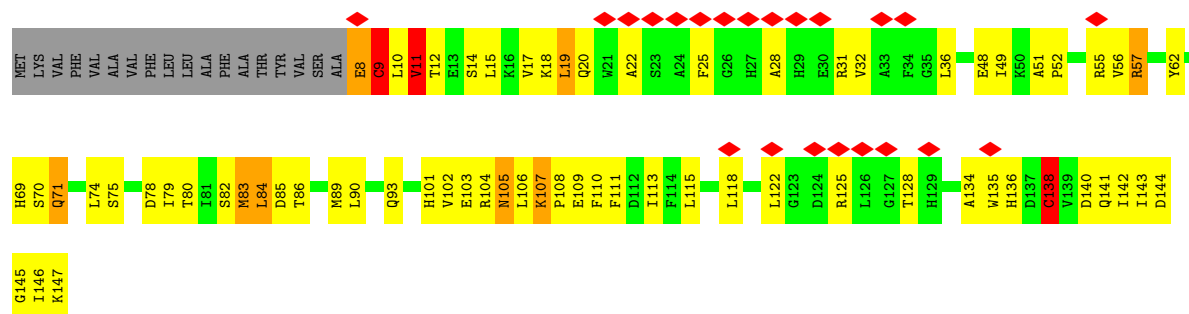
- Molecule 5: HEMOGLOBIN CHAIN D1



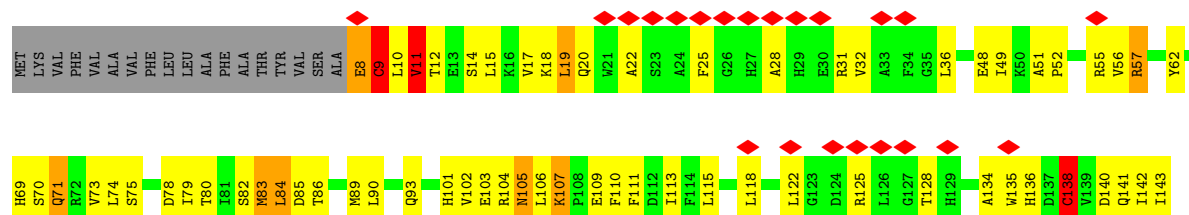
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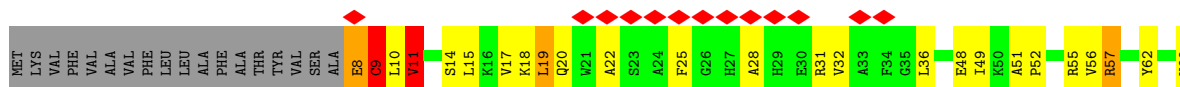


• Molecule 5: HEMOGLOBIN CHAIN D1

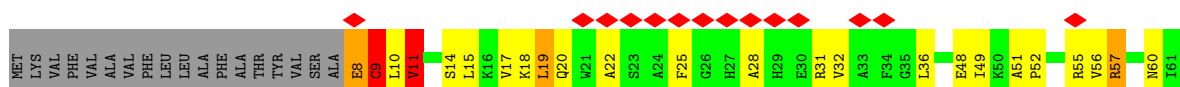


D144
G145
I146
K147

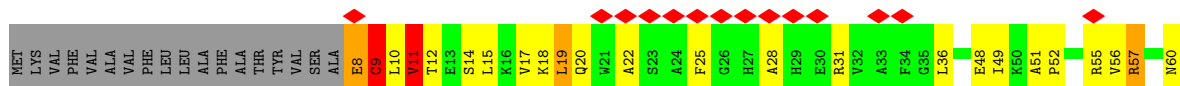
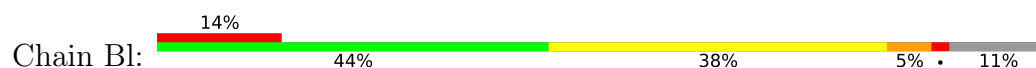
● Molecule 5: HEMOGLOBIN CHAIN D1

D144
G145
I146
K147

● Molecule 5: HEMOGLOBIN CHAIN D1

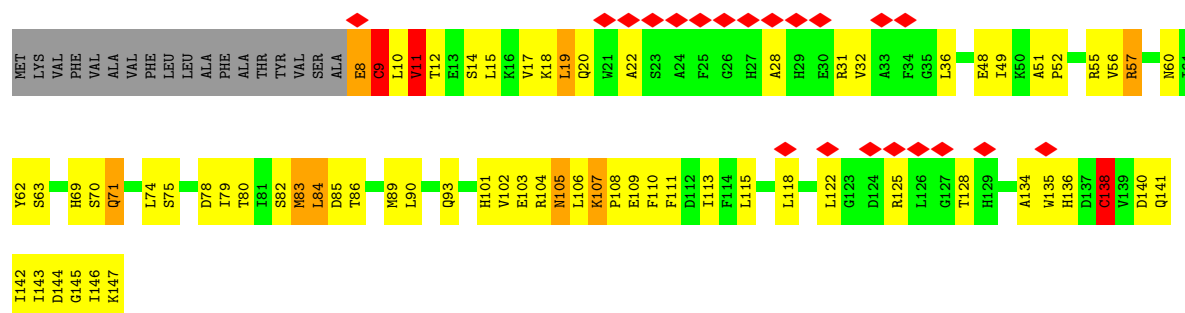
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● Molecule 5: HEMOGLOBIN CHAIN D1

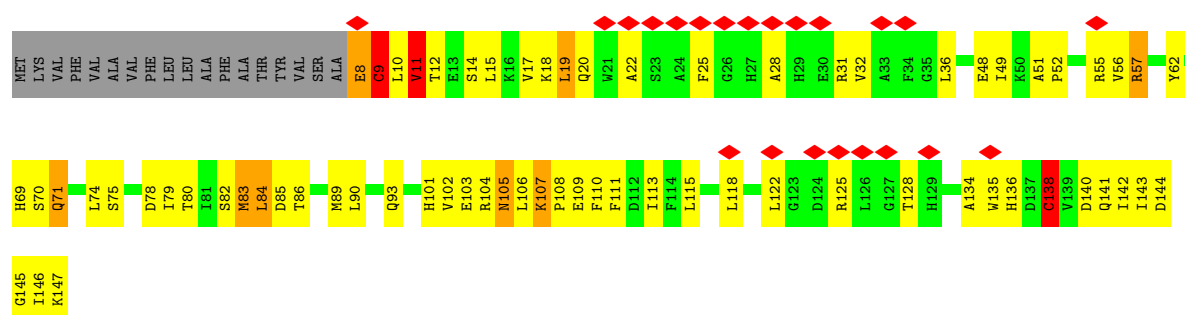
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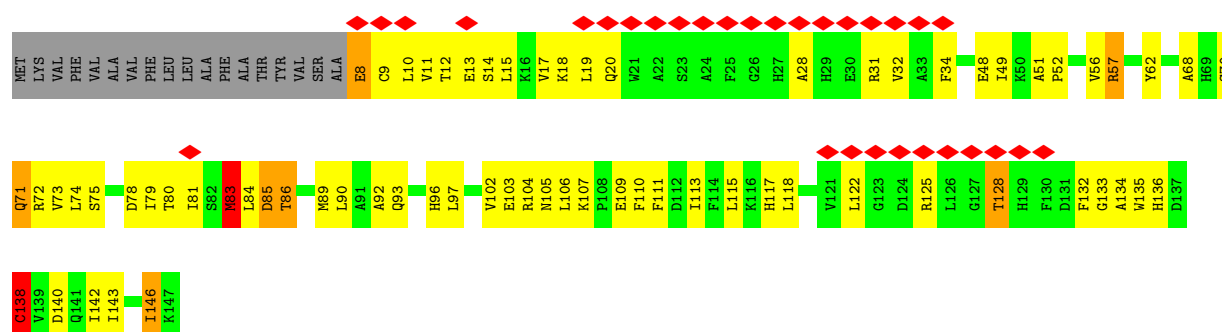




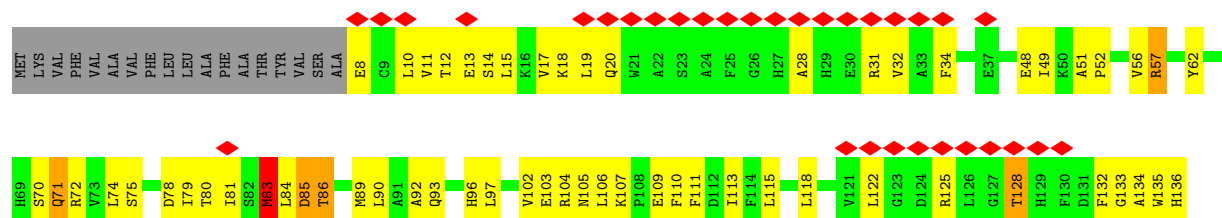
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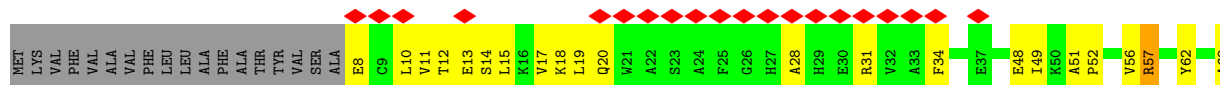


• Molecule 5: HEMOGLOBIN CHAIN D1

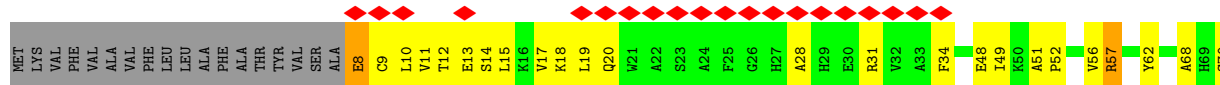




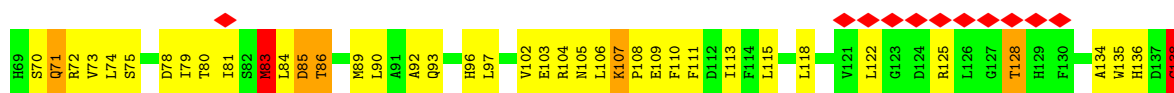
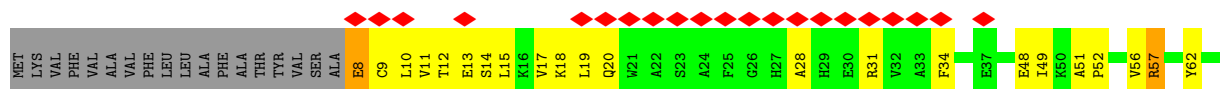
• Molecule 5: HEMOGLOBIN CHAIN D1



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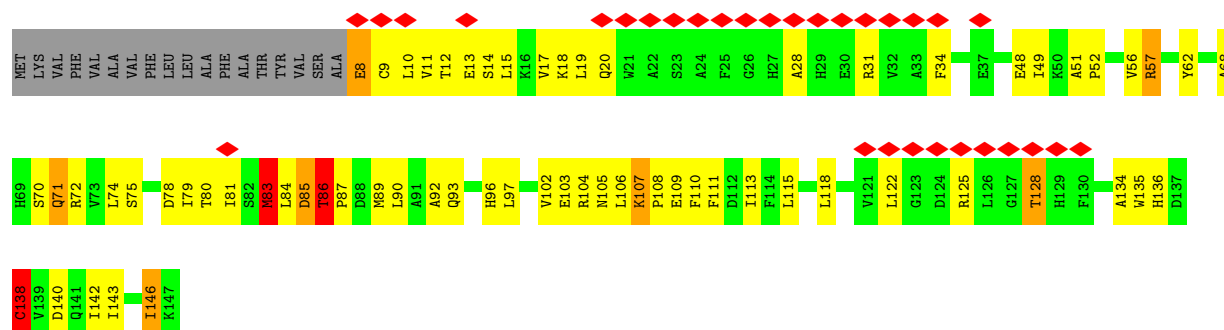


• Molecule 5: HEMOGLOBIN CHAIN D1



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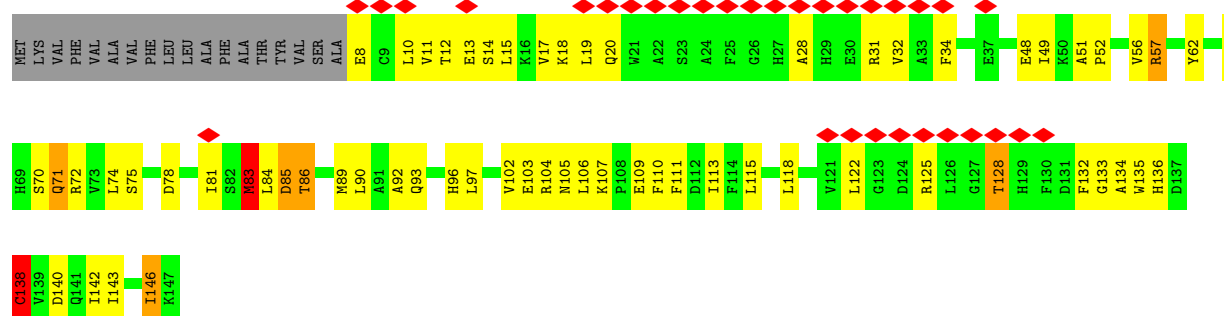




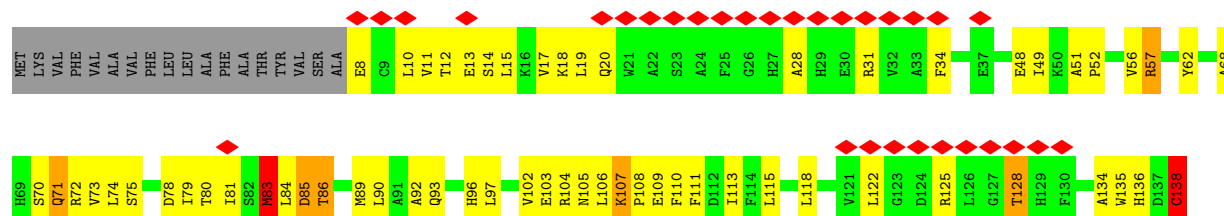
• Molecule 5: HEMOGLOBIN CHAIN D1



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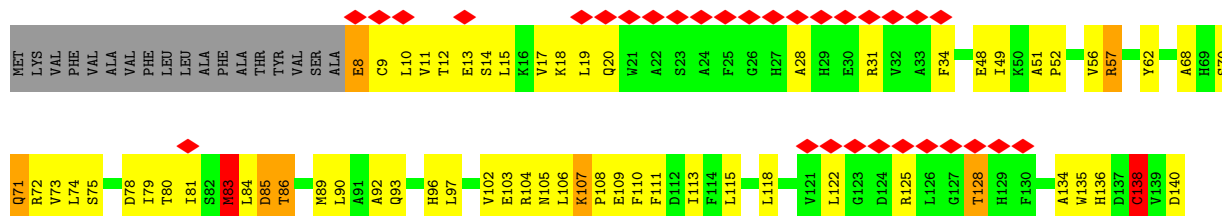


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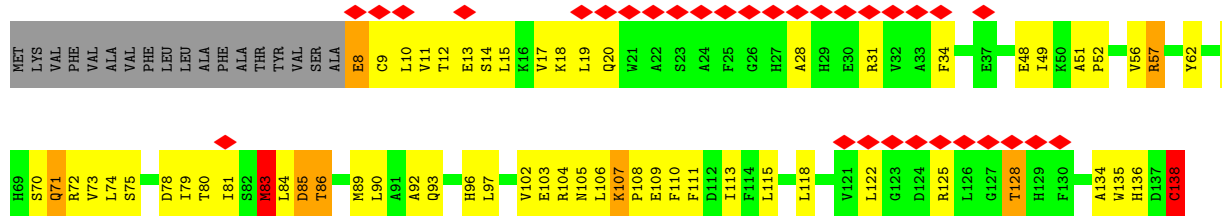




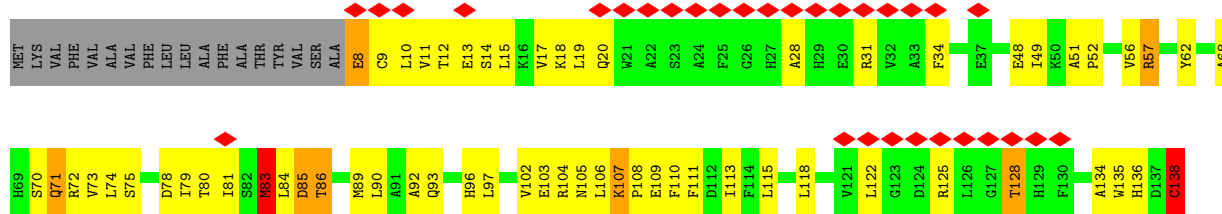
• Molecule 5: HEMOGLOBIN CHAIN D1



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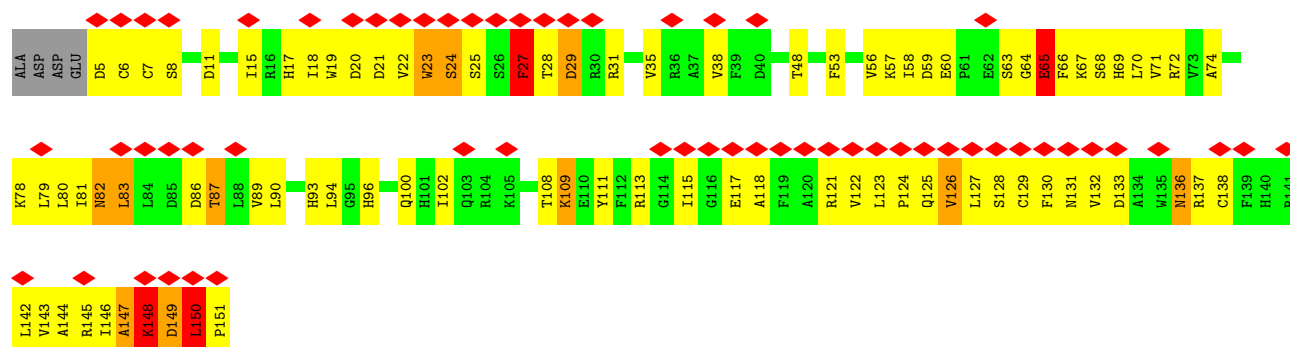


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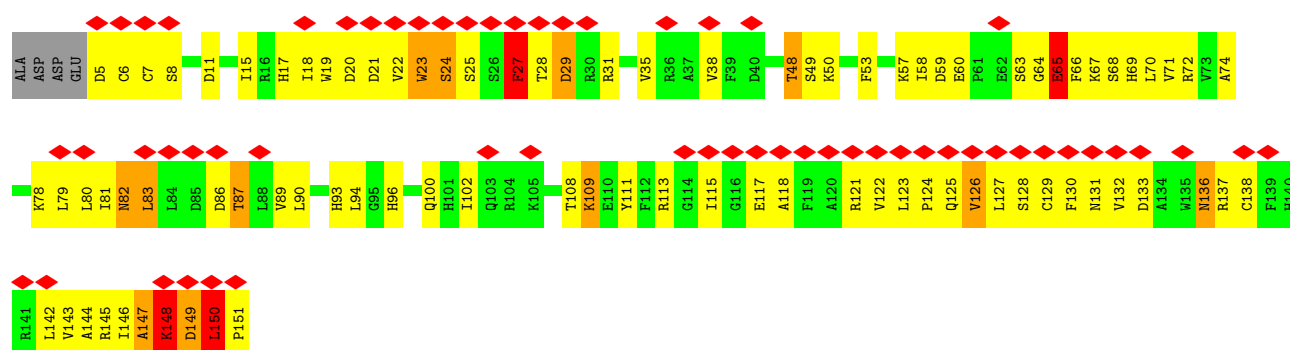
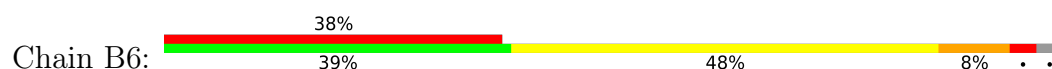


• Molecule 6: EXTRACELLULAR GLOBIN-4

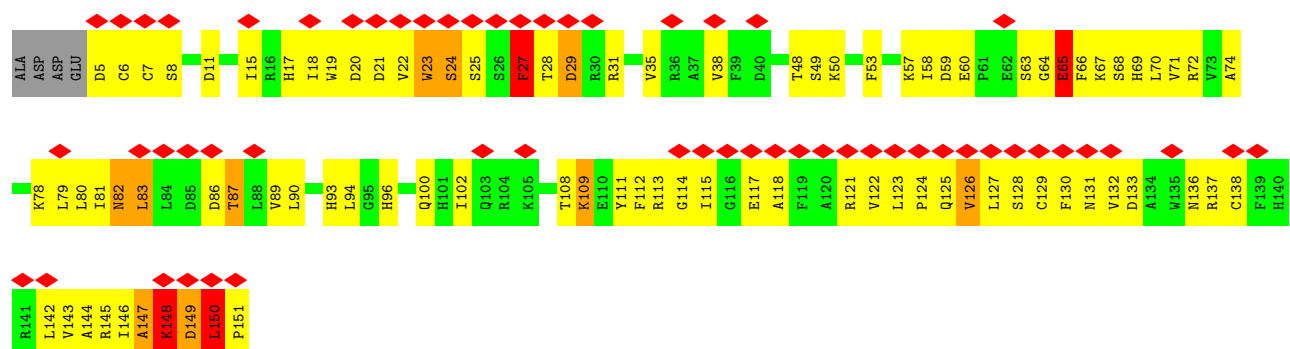




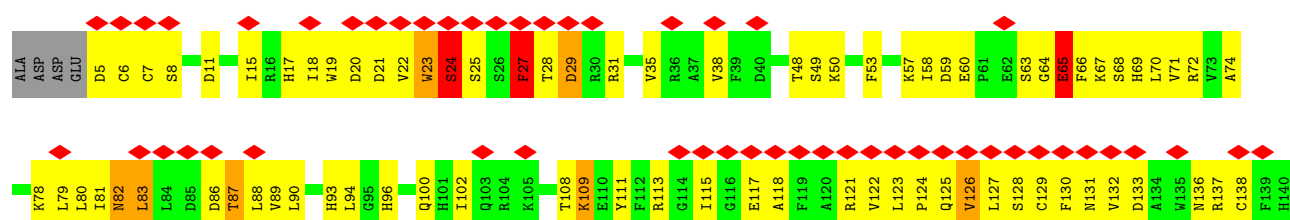
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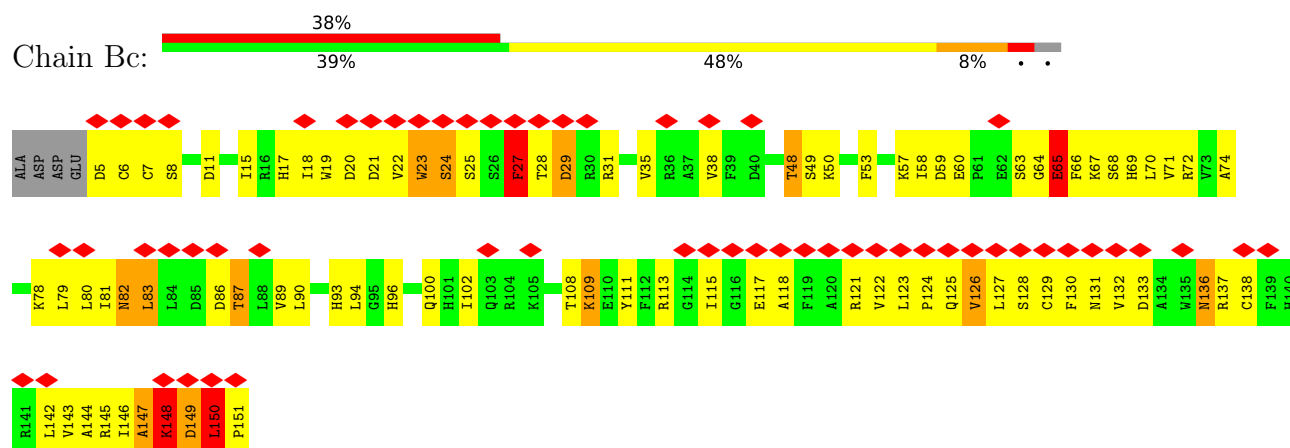
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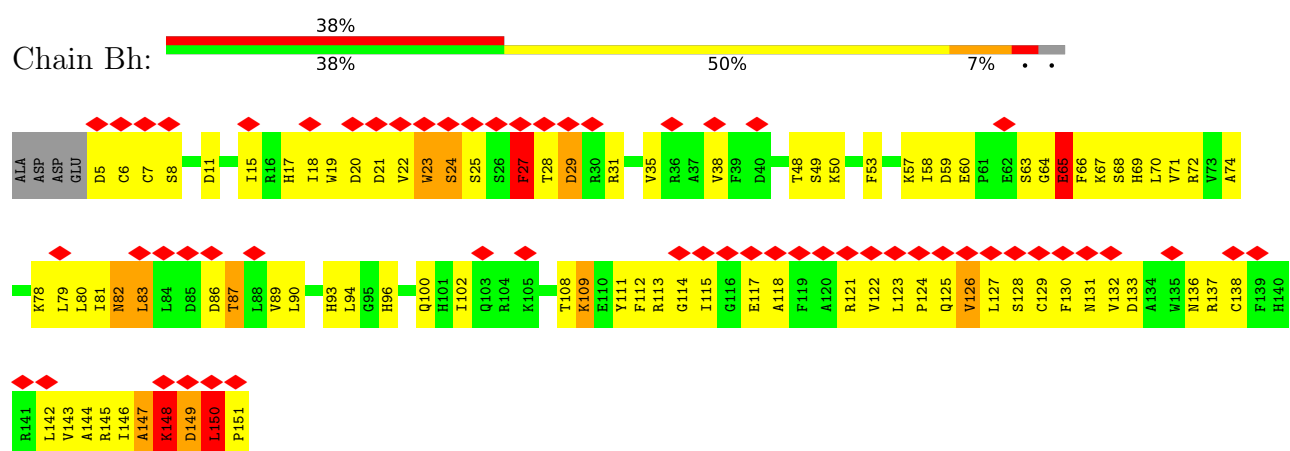
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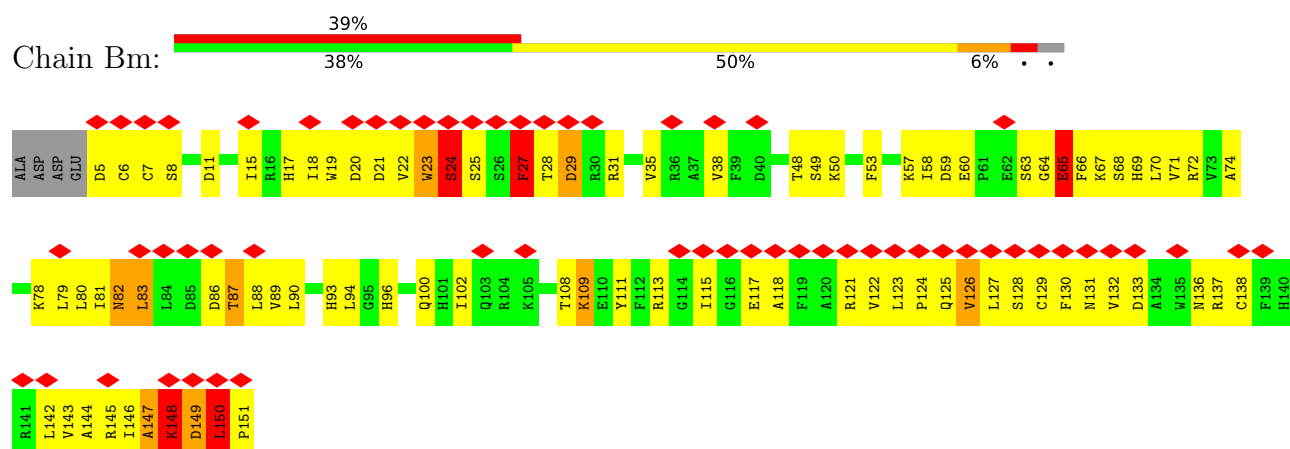




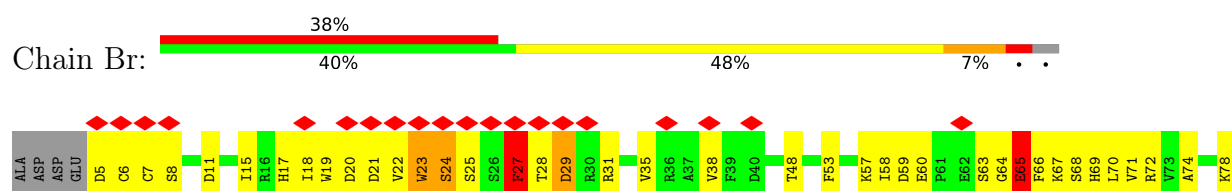
- Molecule 6: EXTRACELLULAR GLOBIN-4

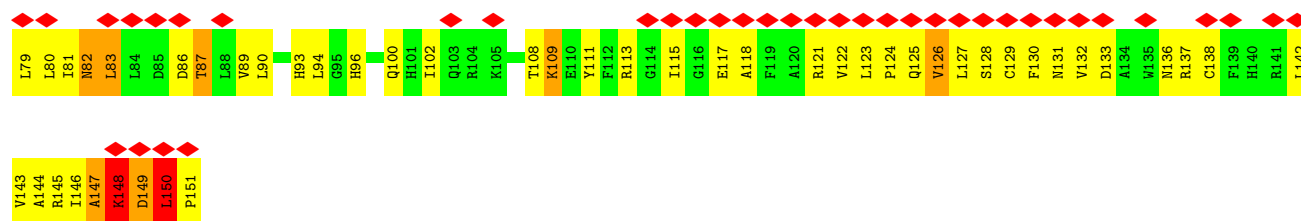


- Molecule 6: EXTRACELLULAR GLOBIN-4

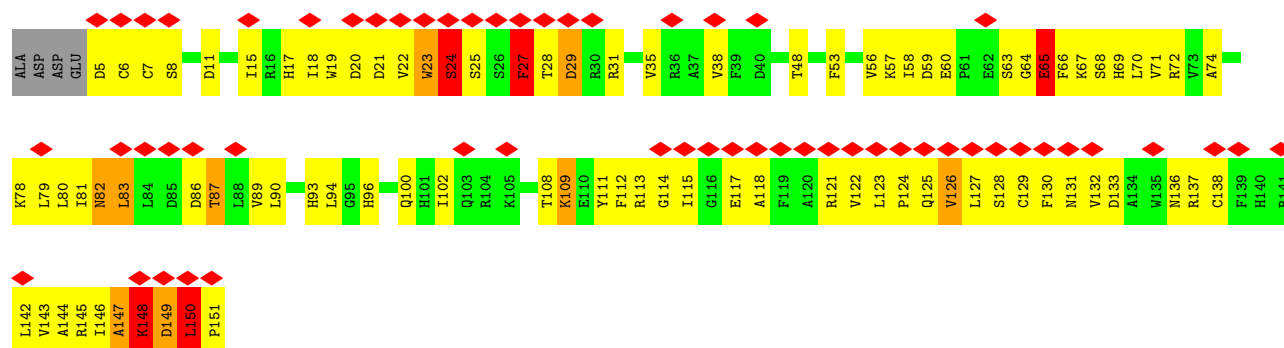


- Molecule 6: EXTRACELLULAR GLOBIN-4

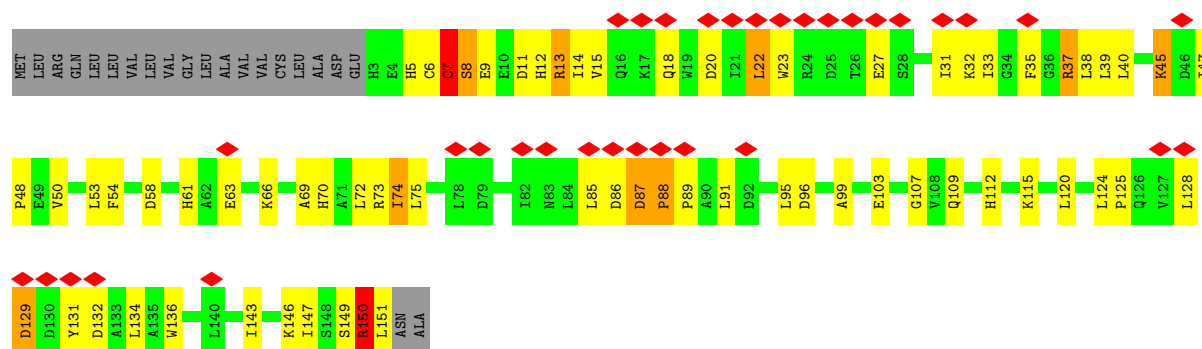




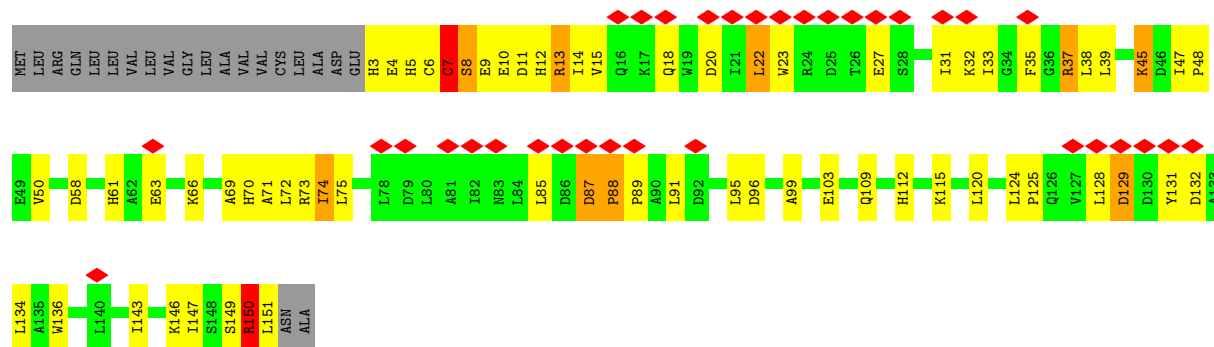
• Molecule 6: EXTRACELLULAR GLOBIN-4



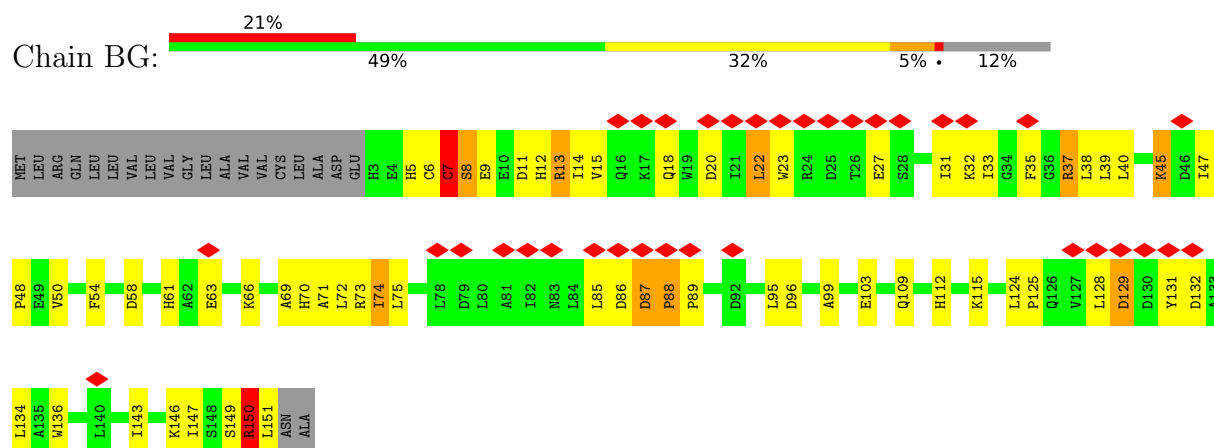
• Molecule 7: EXTRACELLULAR GLOBIN-3



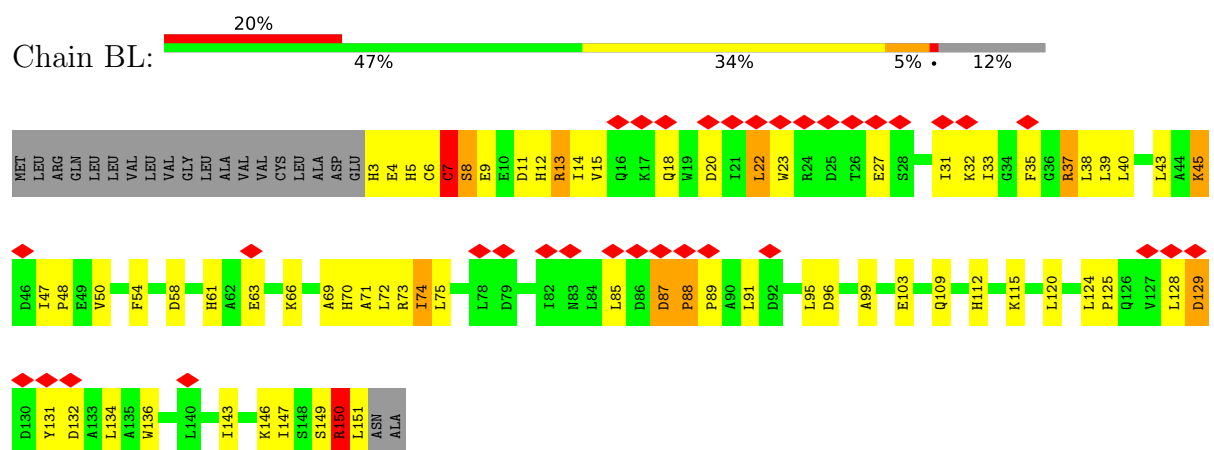
• Molecule 7: EXTRACELLULAR GLOBIN-3



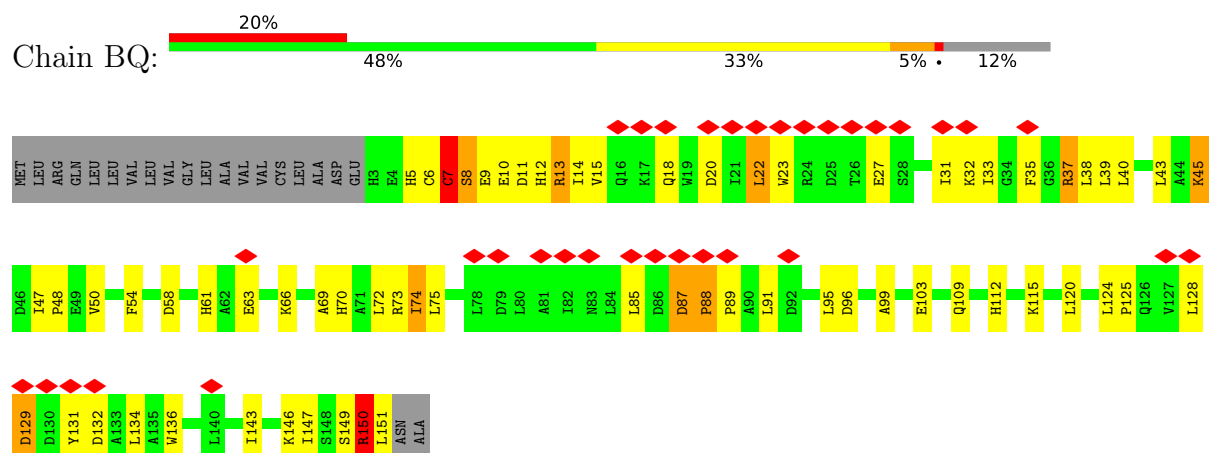
• Molecule 7: EXTRACELLULAR GLOBIN-3



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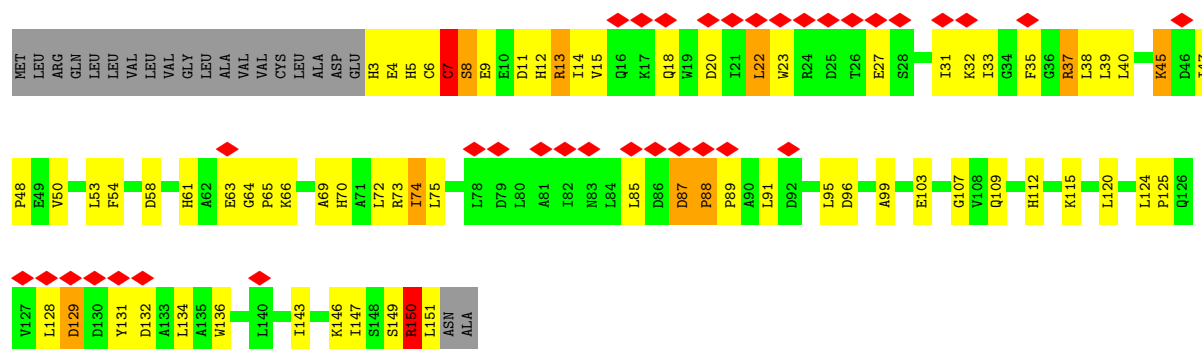


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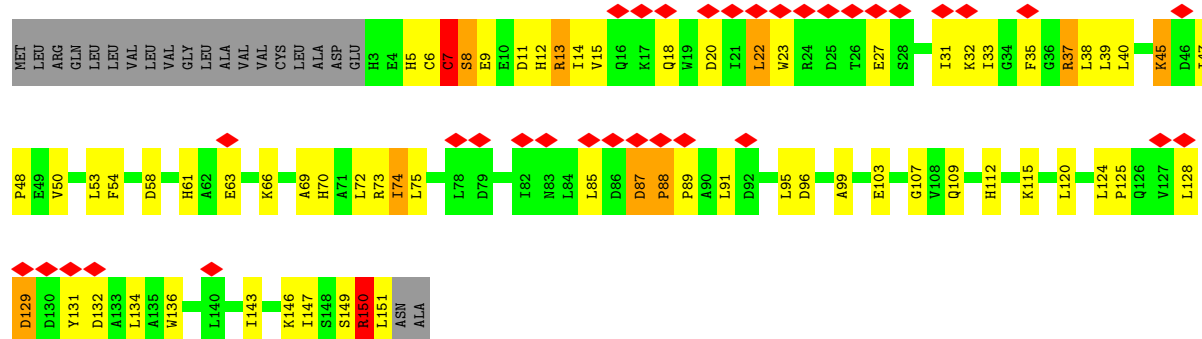


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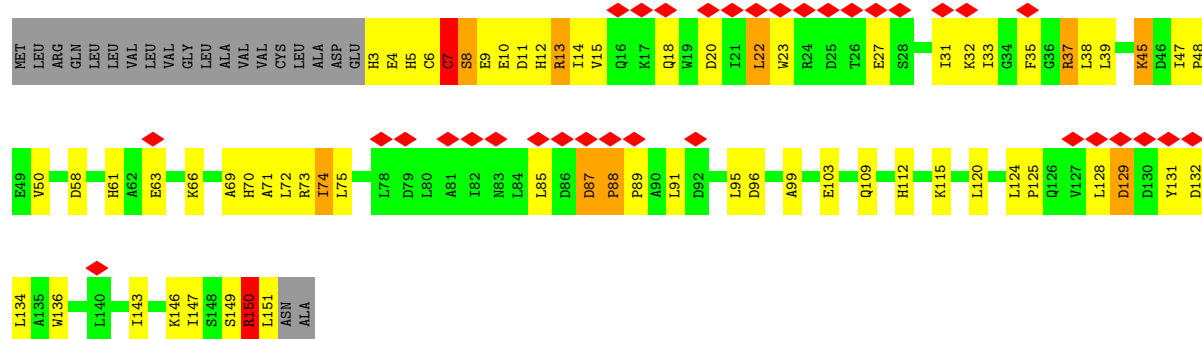




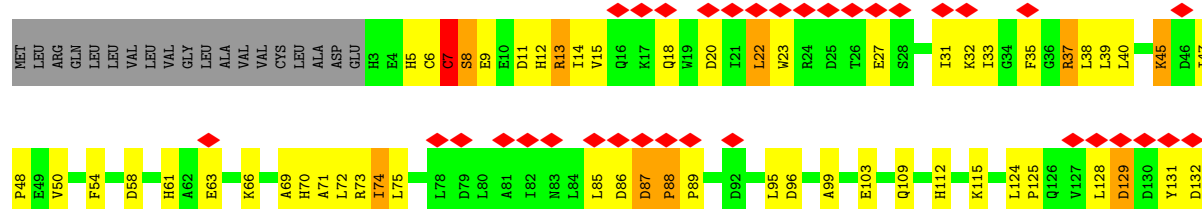
• Molecule 7: EXTRACELLULAR GLOBIN-3



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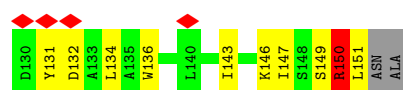
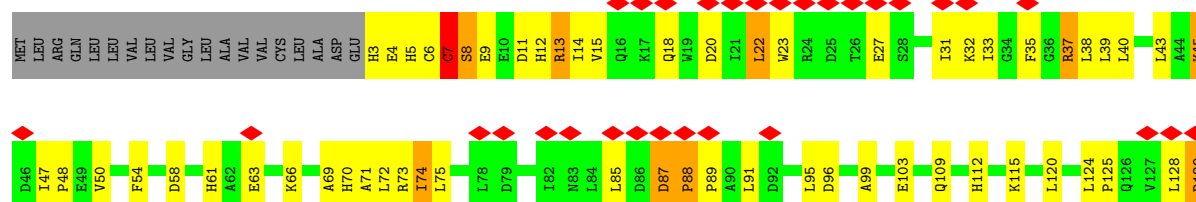


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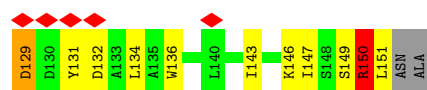
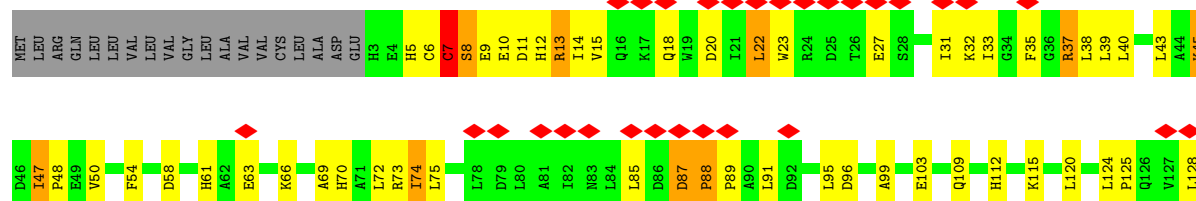




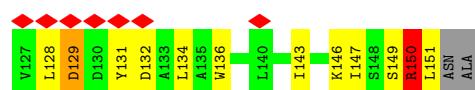
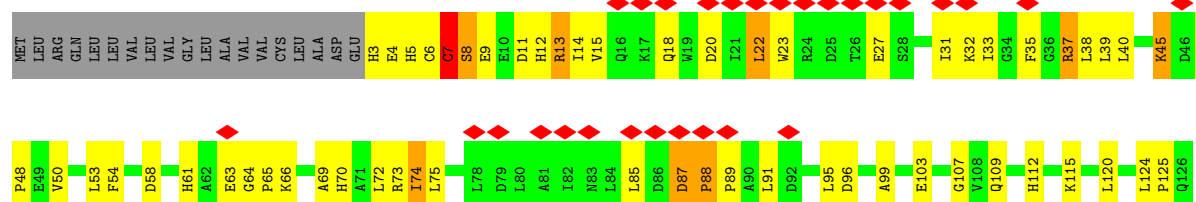
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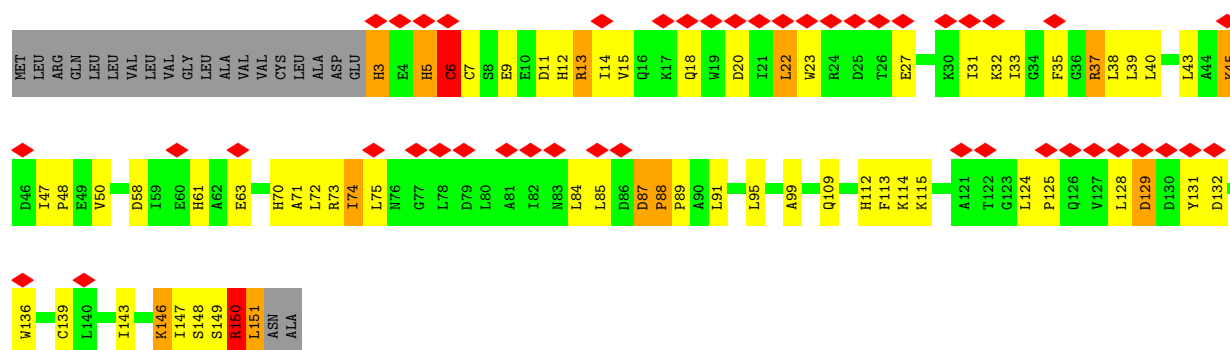


• Molecule 7: EXTRACELLULAR GLOBIN-3



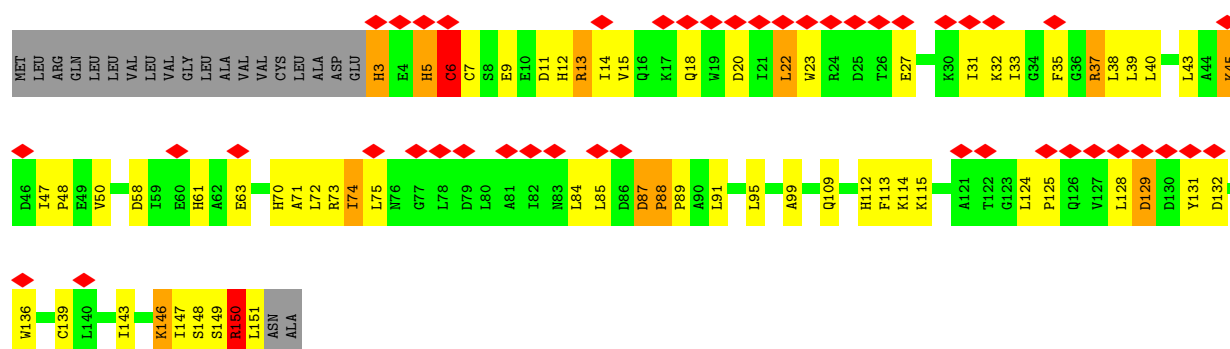
• Molecule 7: EXTRACELLULAR GLOBIN-3

Chain C3: 26% 49% 30% 7% 12%



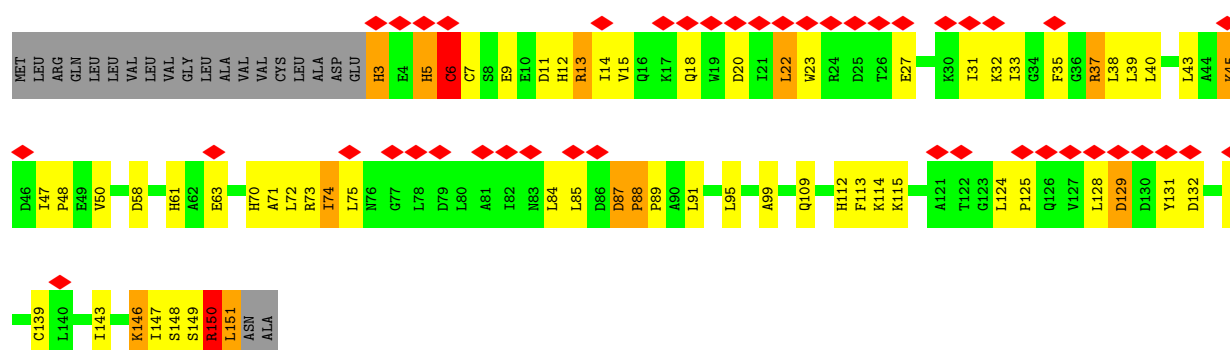
• Molecule 7: EXTRACELLULAR GLOBIN-3

Chain CA: 26% 49% 31% 6% 12%



• Molecule 7: EXTRACELLULAR GLOBIN-3

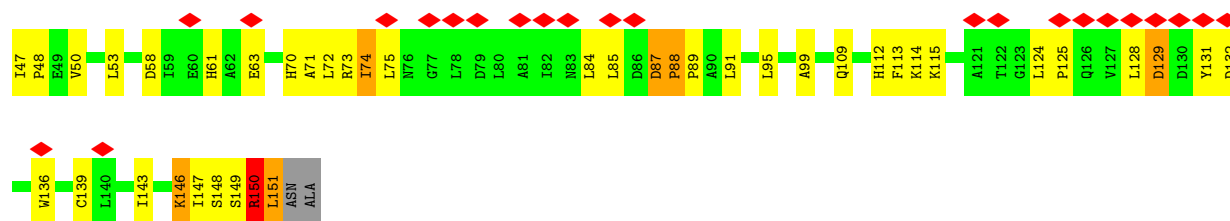
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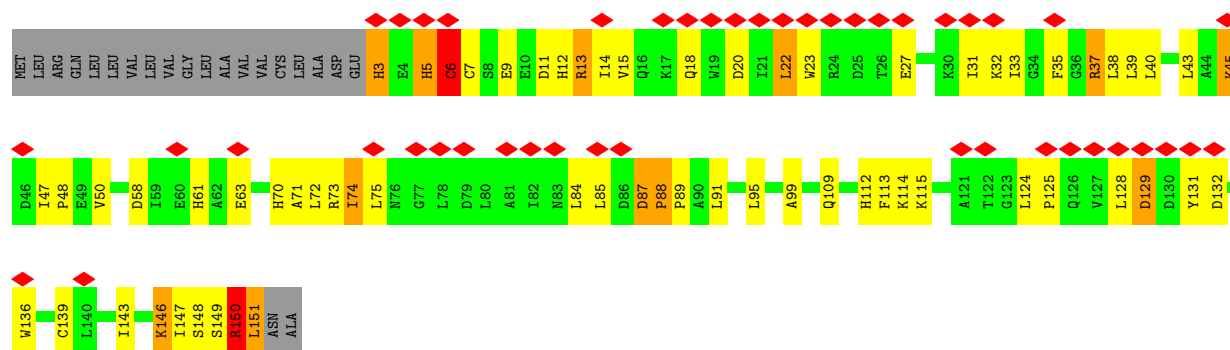
• Molecule 7: EXTRACELLULAR GLOBIN-3

Chain CK: 26% 49% 30% 7% 12%

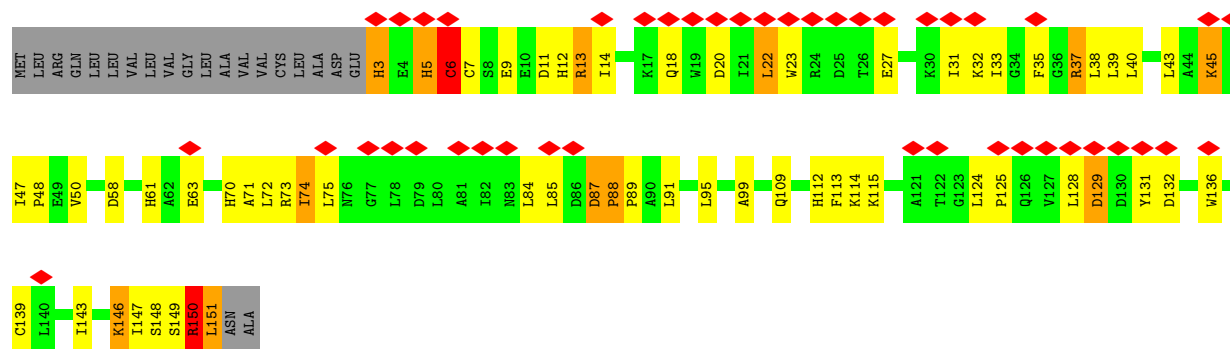




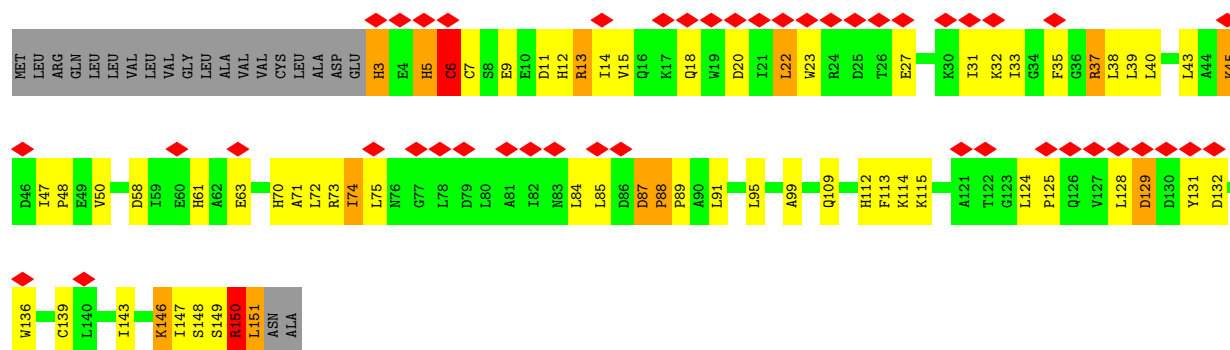
• Molecule 7: EXTRACELLULAR GLOBIN-3



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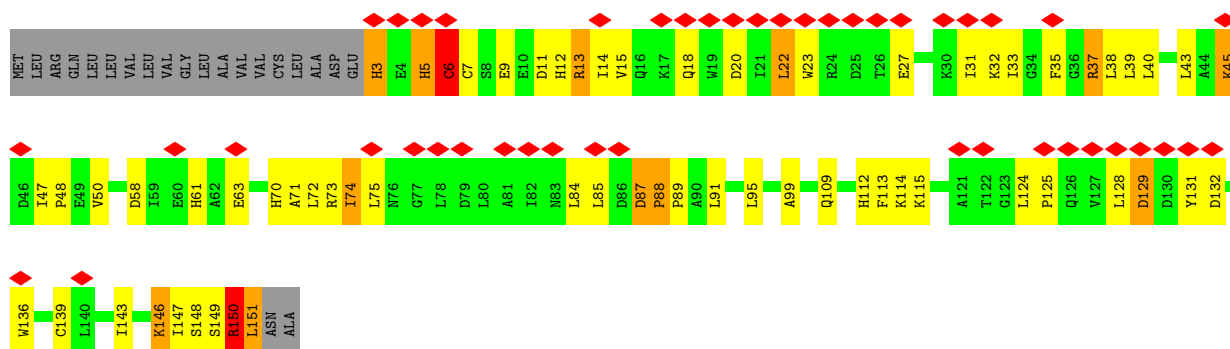


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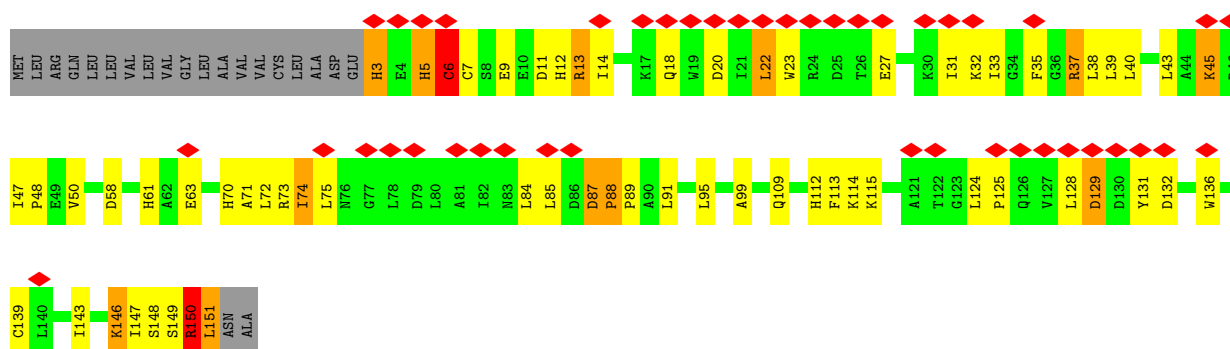


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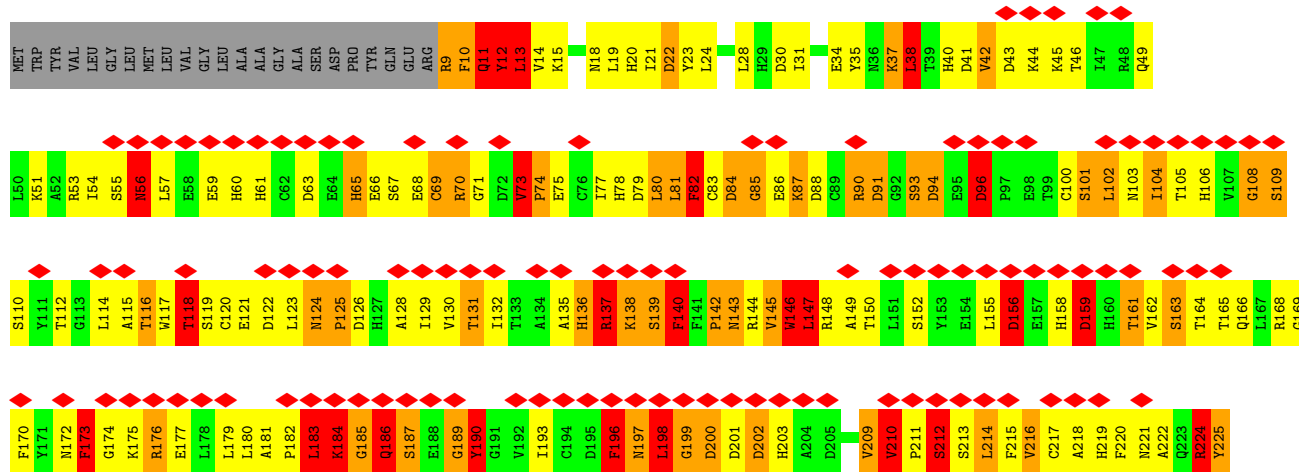
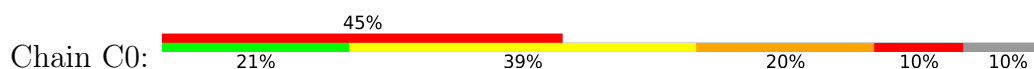




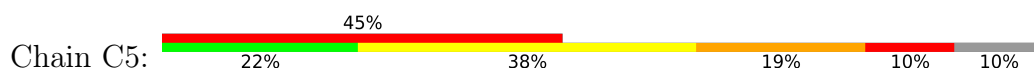
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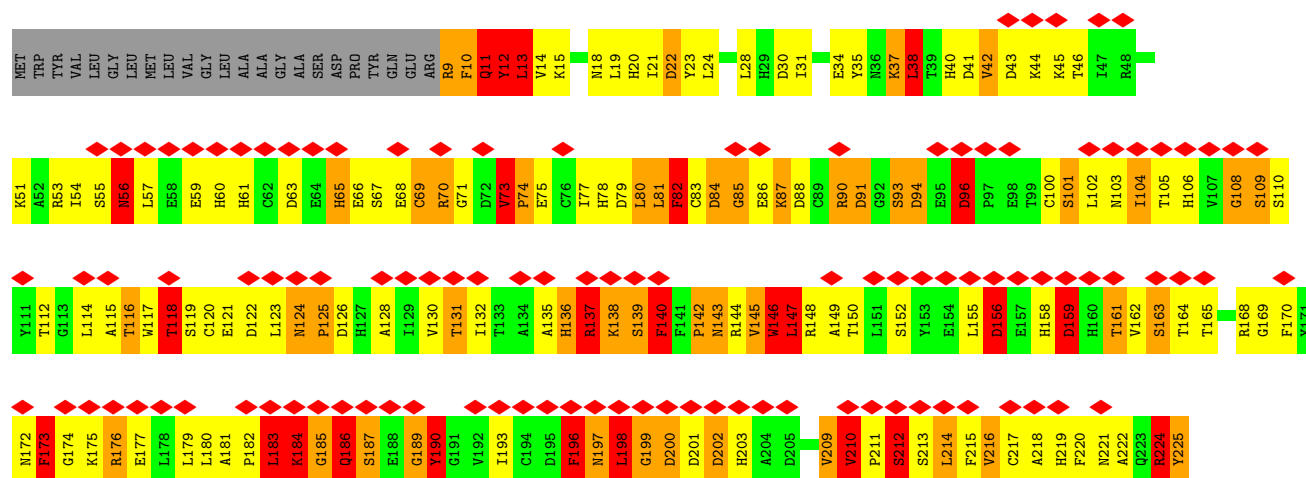


• Molecule 8: HEMOGLOBIN LINKER CHAIN L1

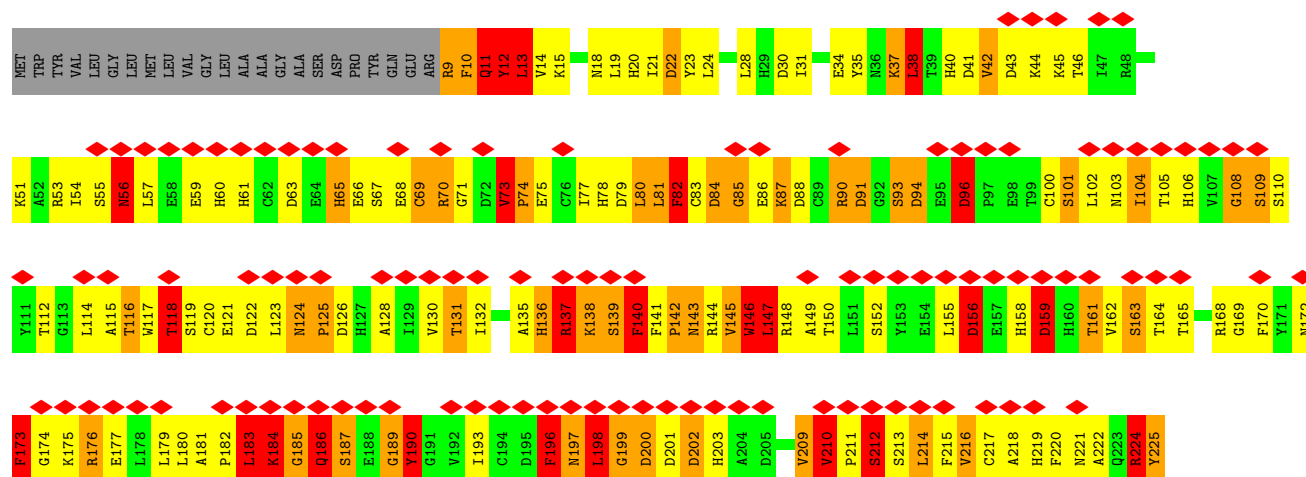
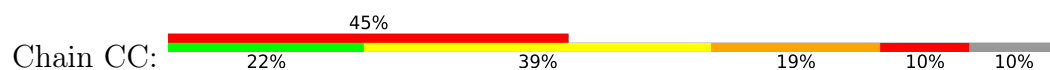


• Molecule 8: HEMOGLOBIN LINKER CHAIN L1

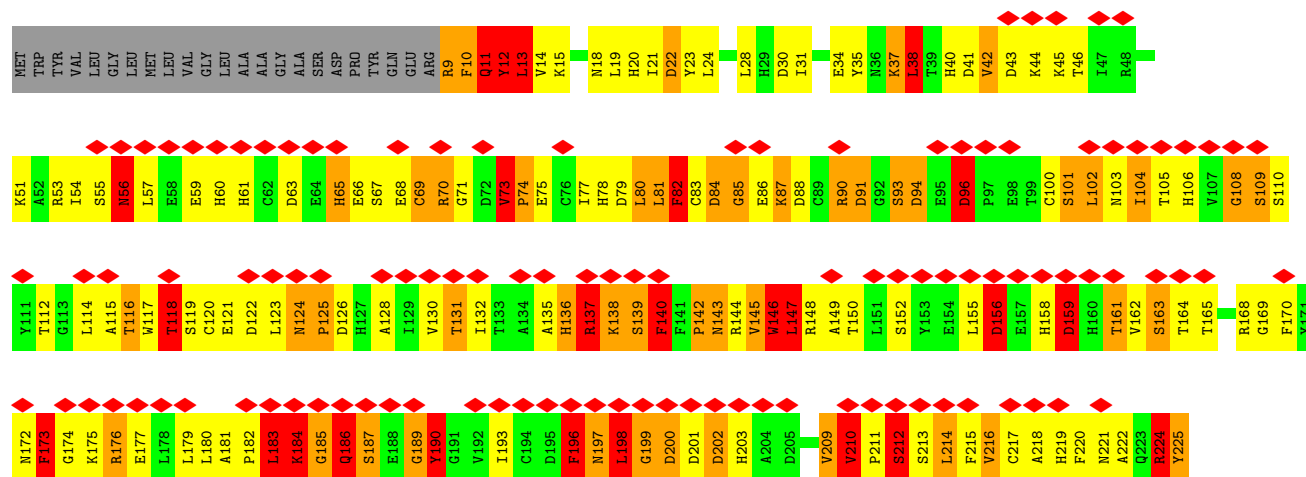
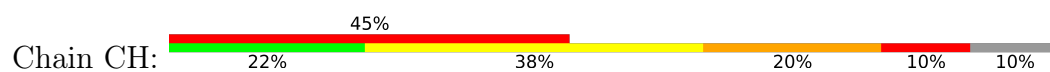




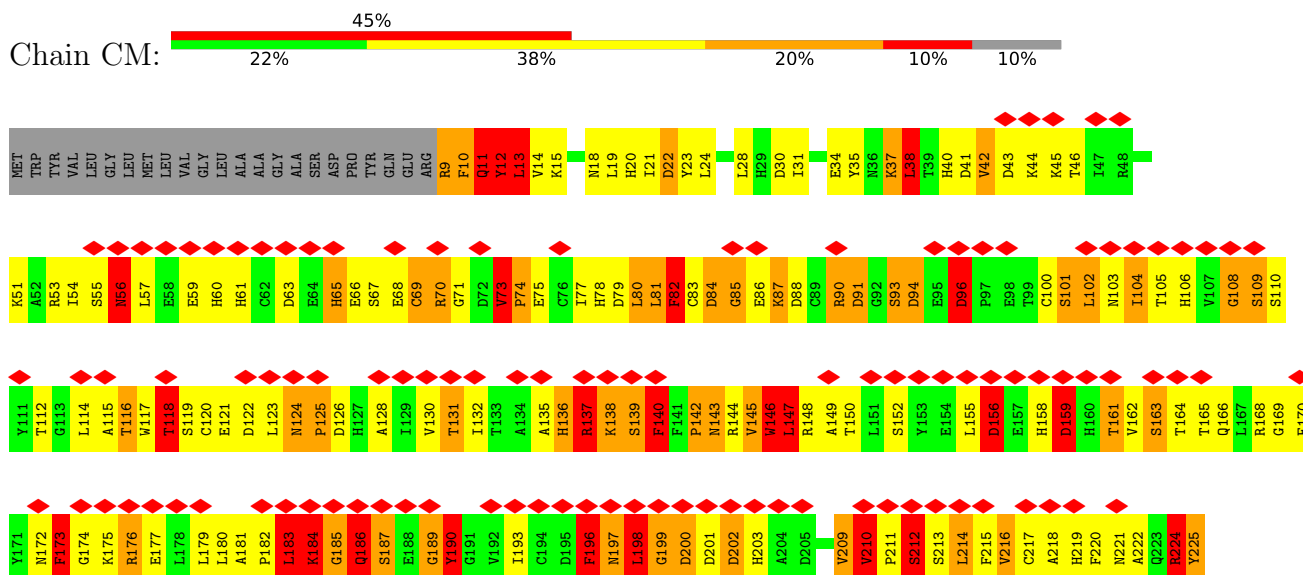
• Molecule 8: HEMOGLOBIN LINKER CHAIN L1



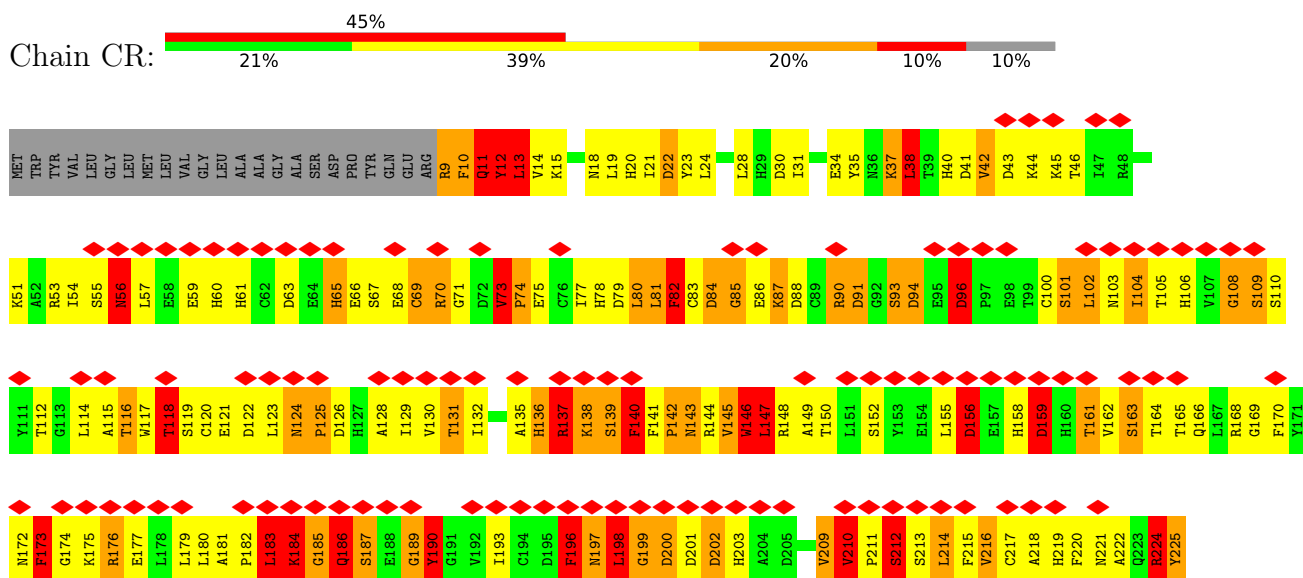
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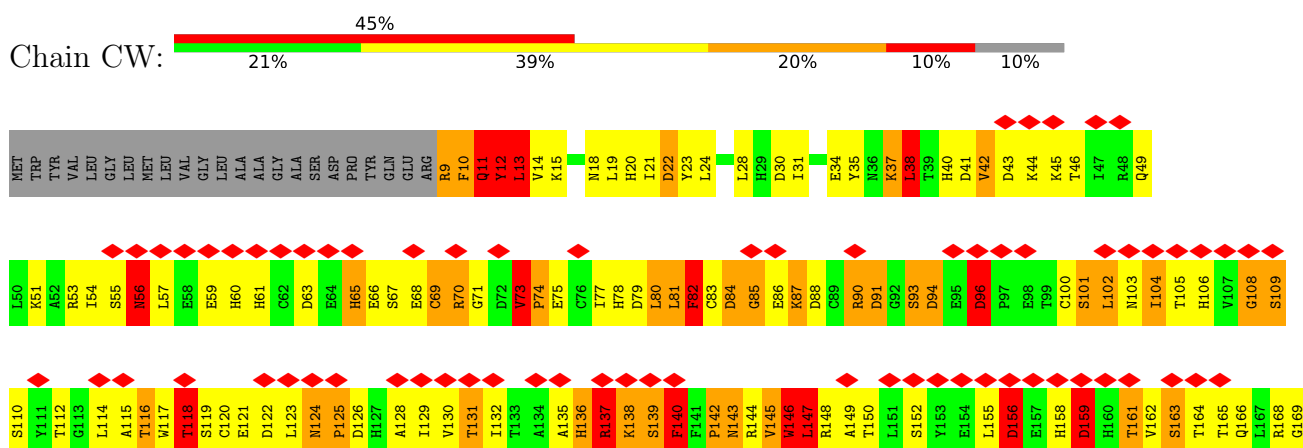
● Molecule 8: HEMOGLOBIN LINKER CHAIN L1



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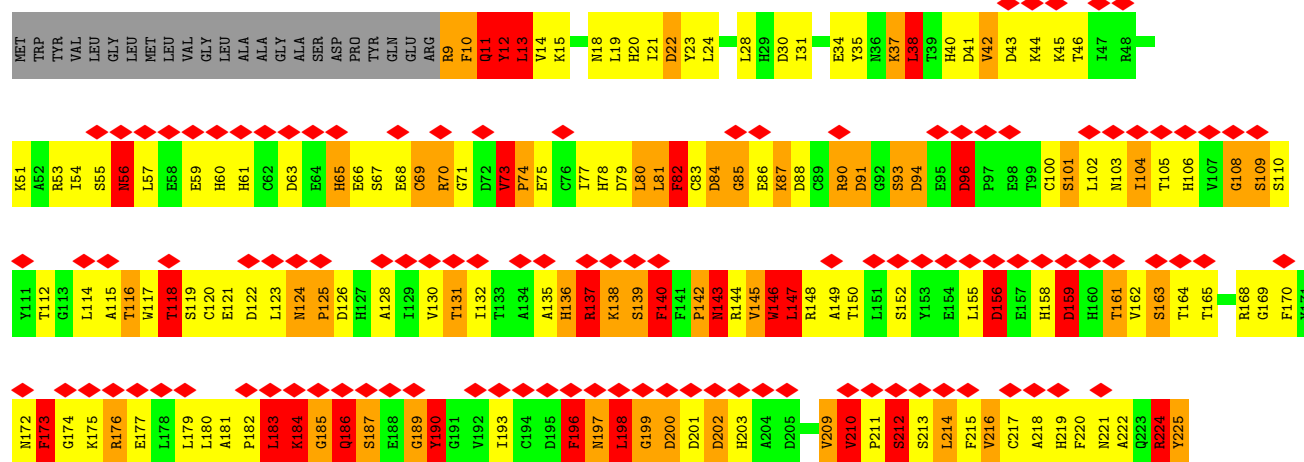
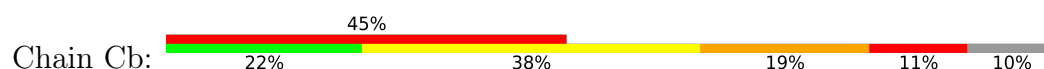


● Molecule 8: HEMOGLOBIN LINKER CHAIN L1

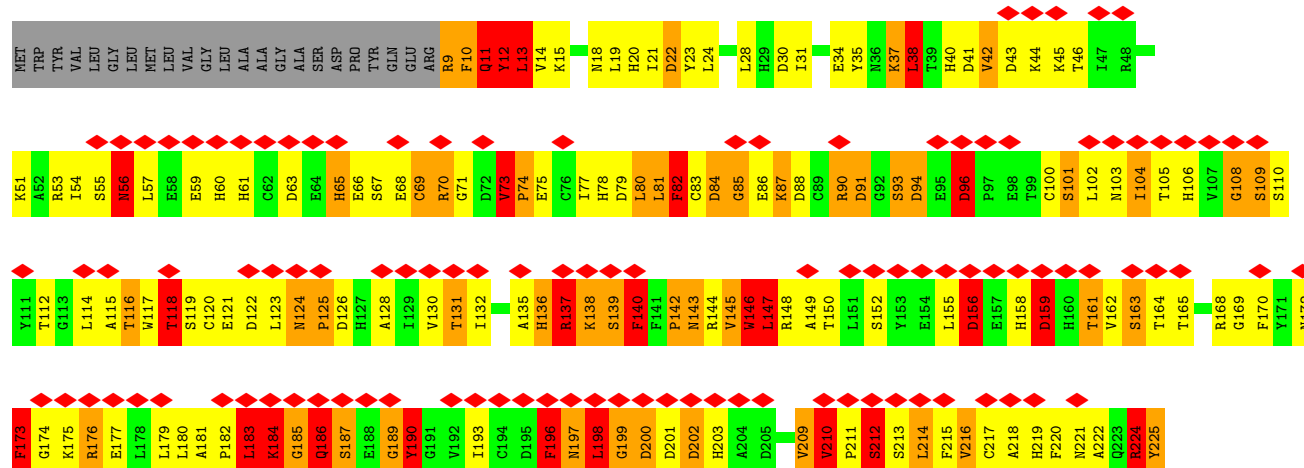
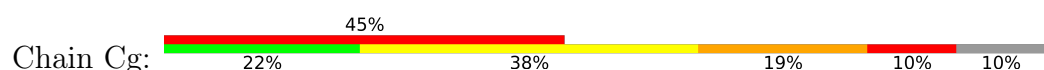




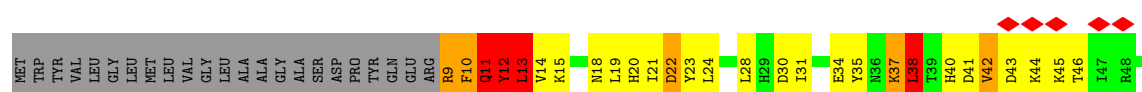
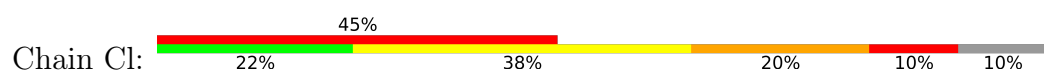
• Molecule 8: HEMOGLOBIN LINKER CHAIN L1

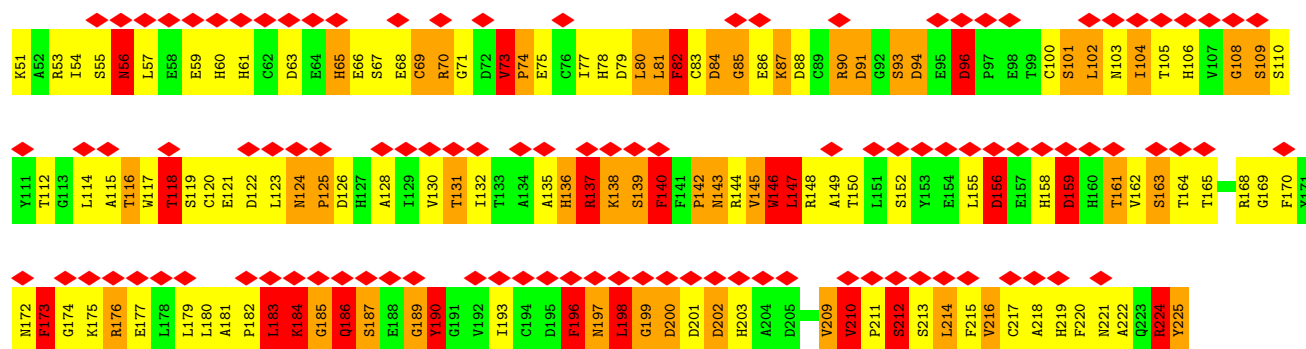


• Molecule 8: HEMOGLOBIN LINKER CHAIN L1

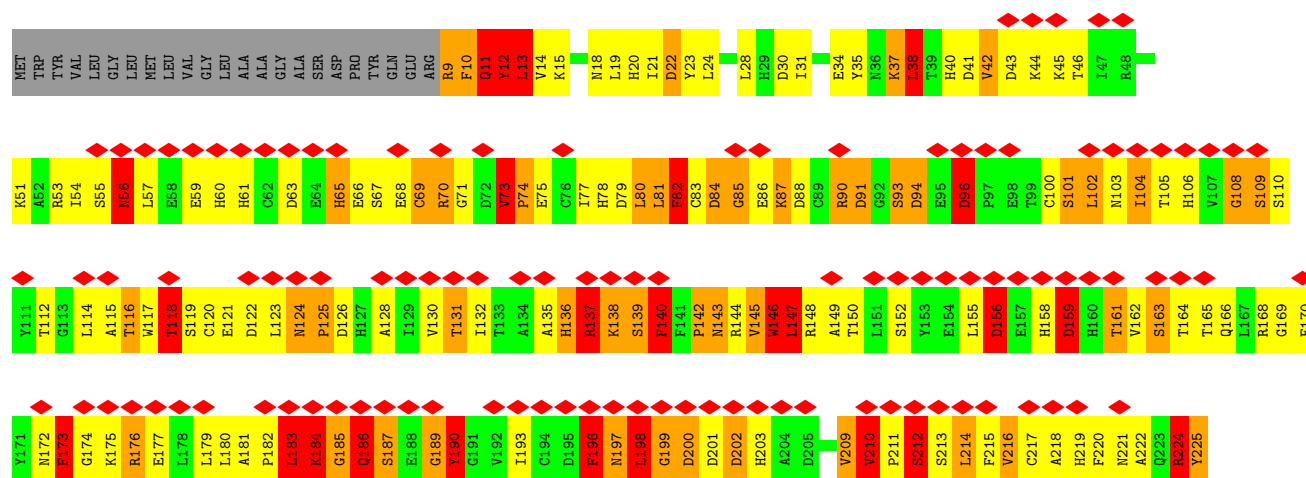
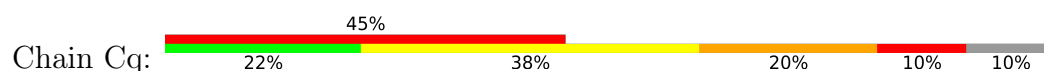


• Molecule 8: HEMOGLOBIN LINKER CHAIN L1

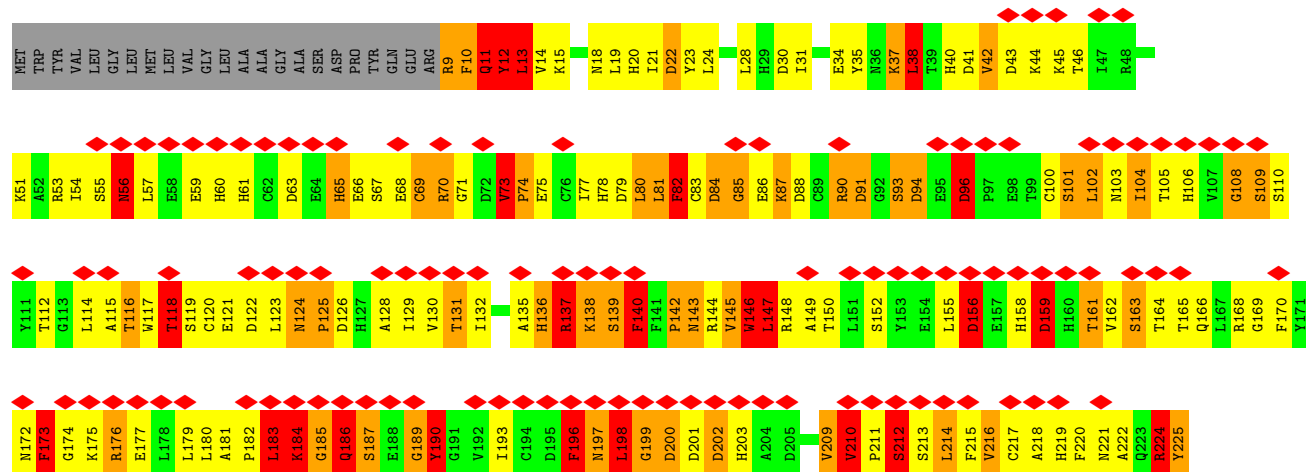
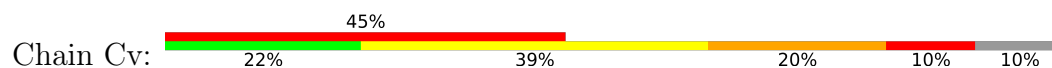




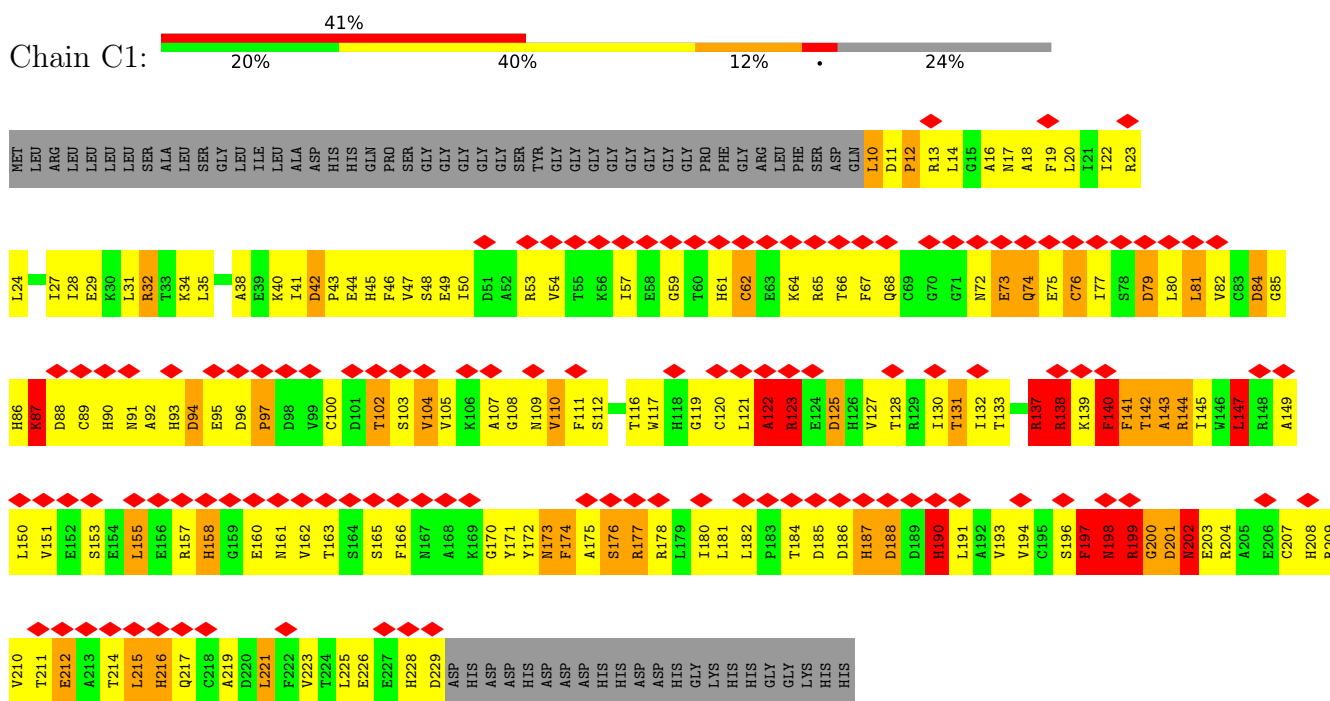
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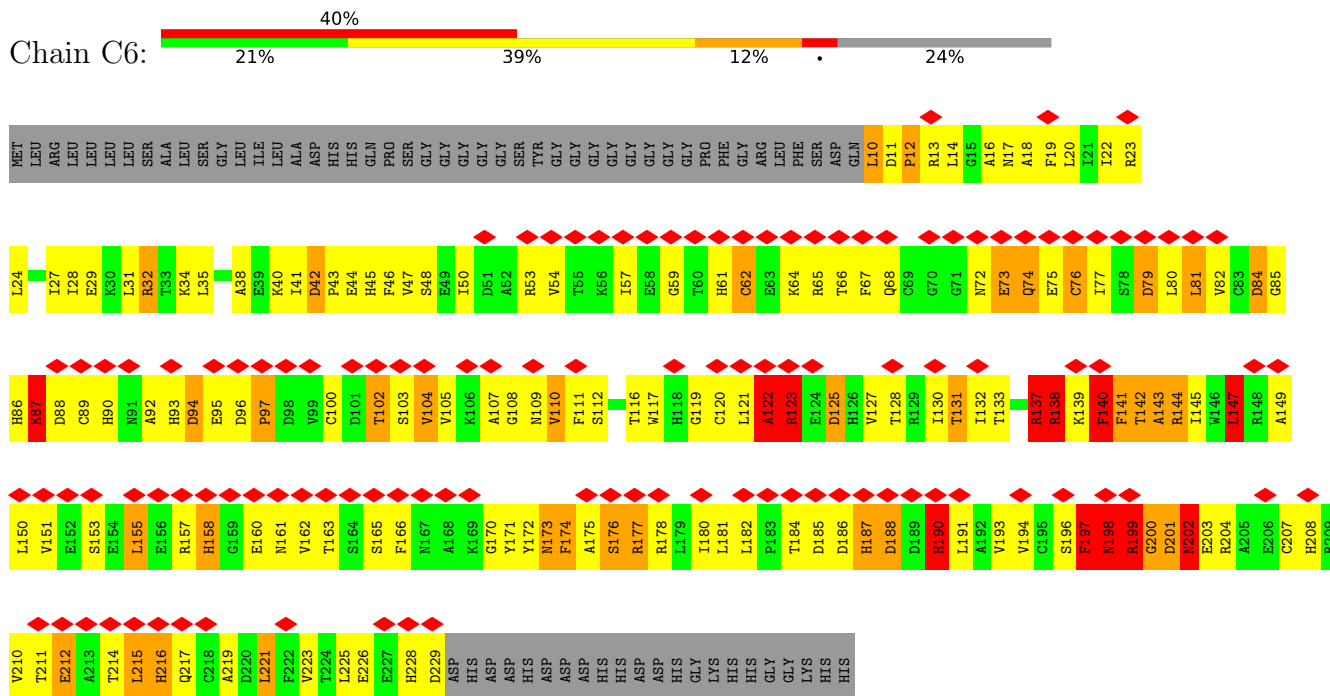
• Molecule 8: HEMOGLOBIN LINKER CHAIN L1



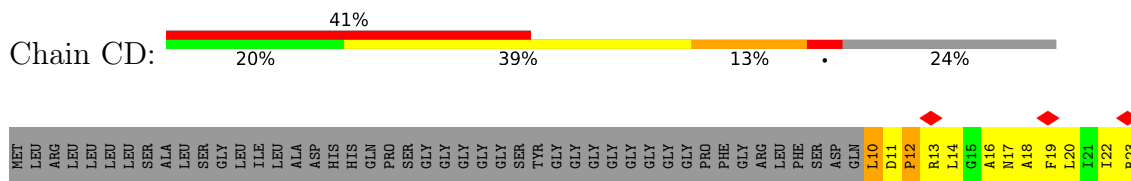
• Molecule 9: EXTRACELLULAR HEMOGLOBIN LINKER L2 SUBUNIT

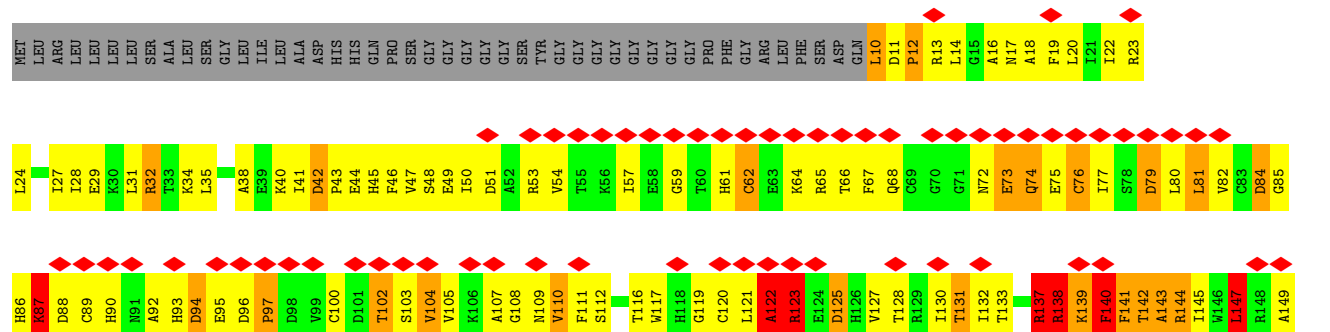


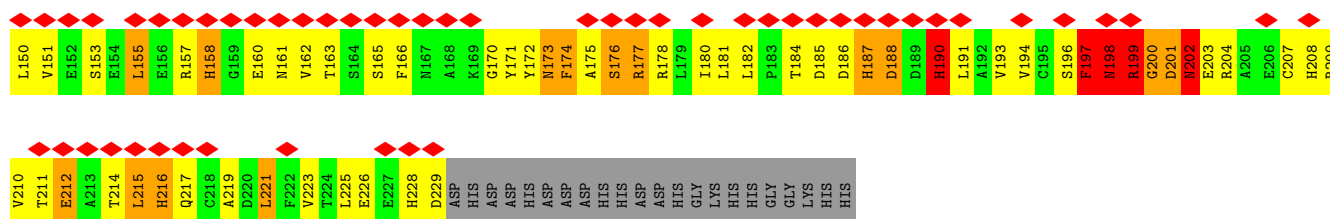
● Molecule 9: EXTRACELLULAR HEMOGLOBIN LINKER L2 SUBUNIT



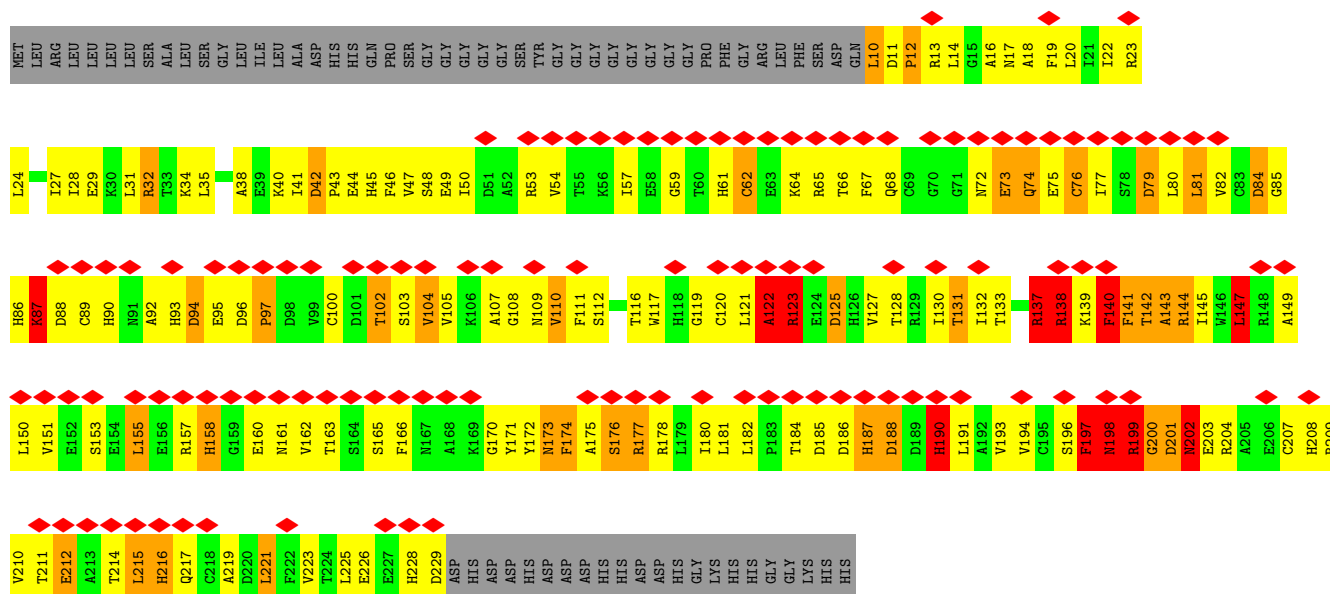
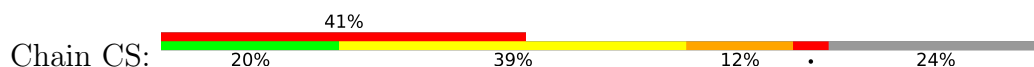
● Molecule 9: EXTRACELLULAR HEMOGLOBIN LINKER L2 SUBUNIT



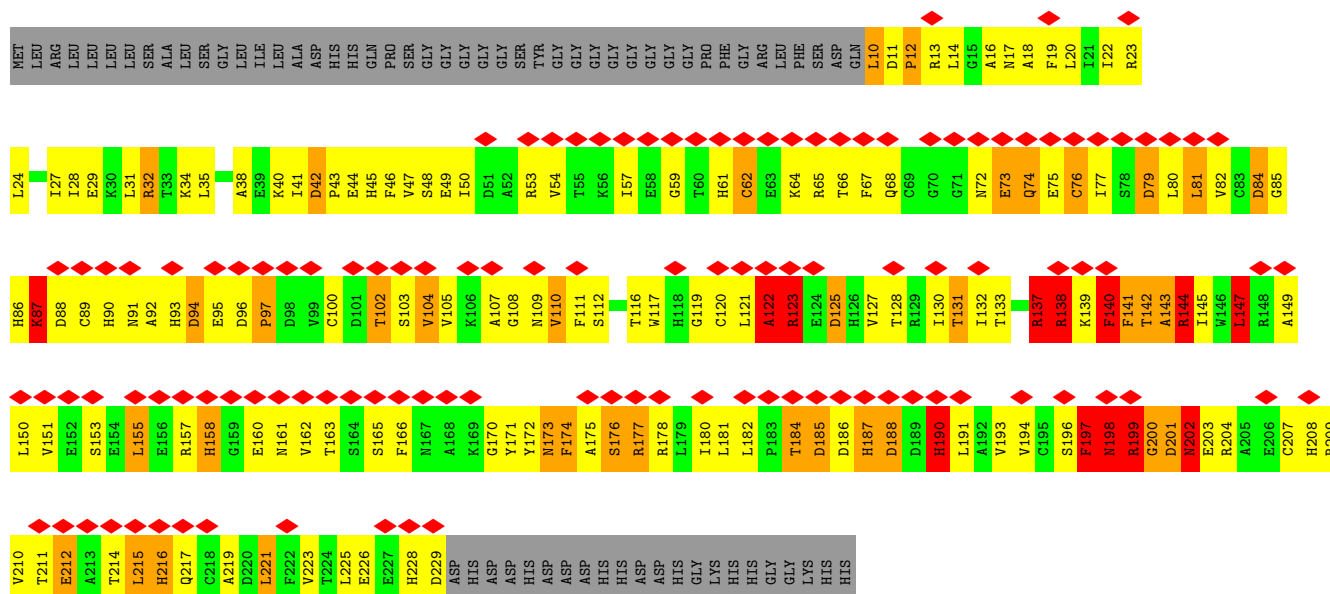
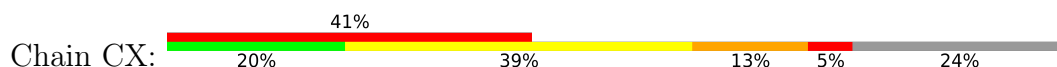




• Molecule 9: EXTRACELLULAR HEMOGLOBIN LINKER L2 SUBUNIT

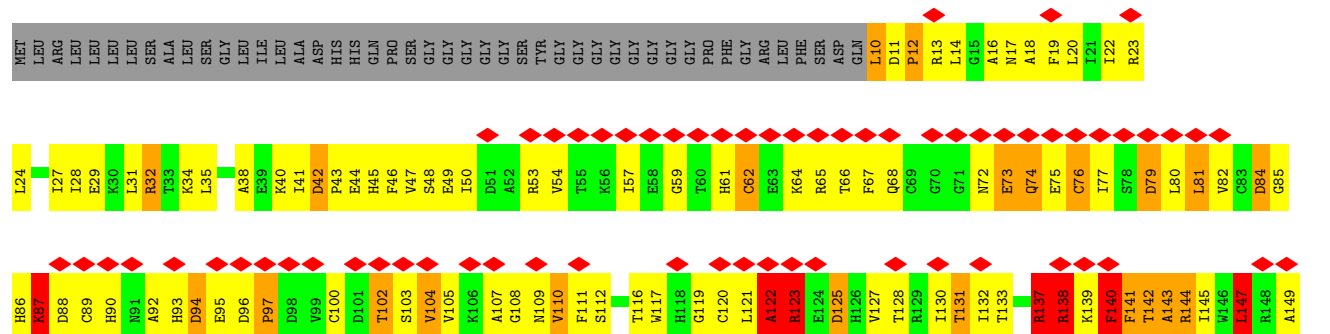


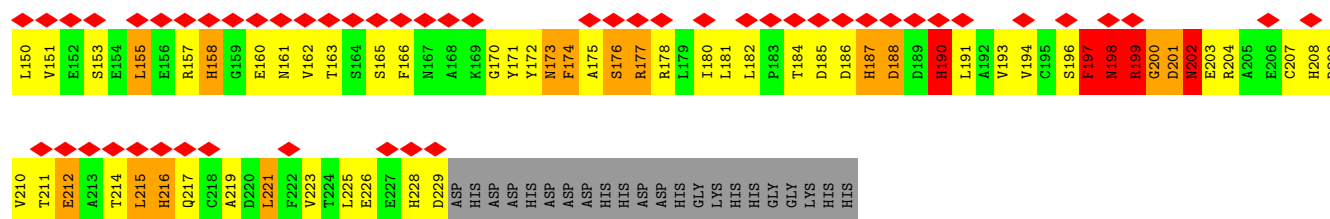
• Molecule 9: EXTRACELLULAR HEMOGLOBIN LINKER L2 SUBUNIT



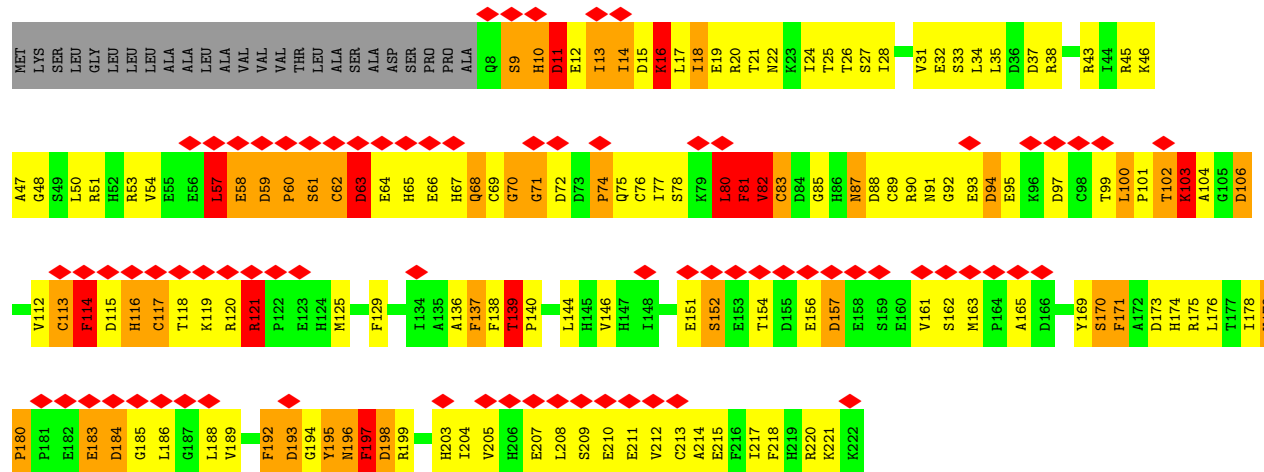
Chain Cc:



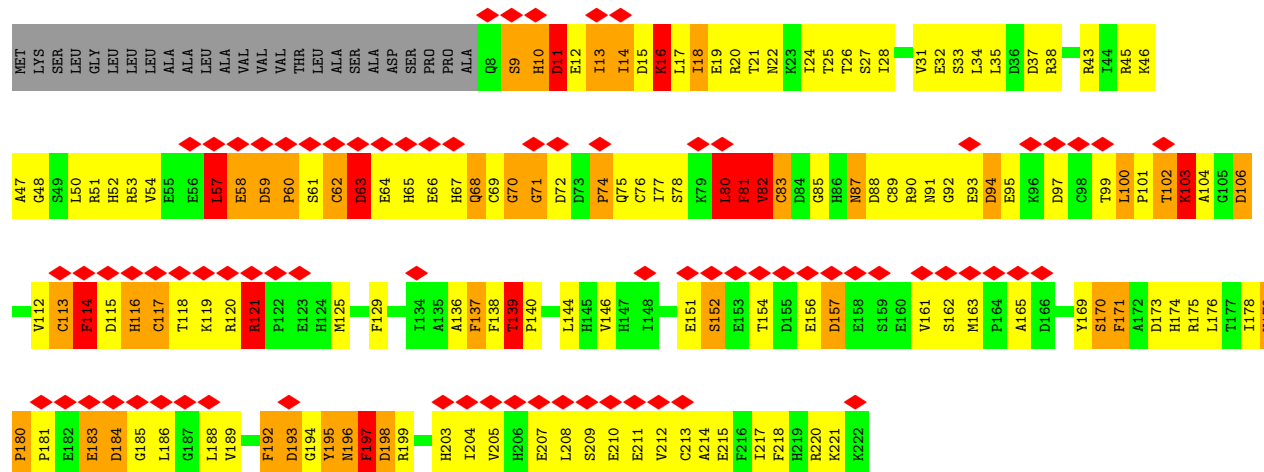




• Molecule 10: EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT

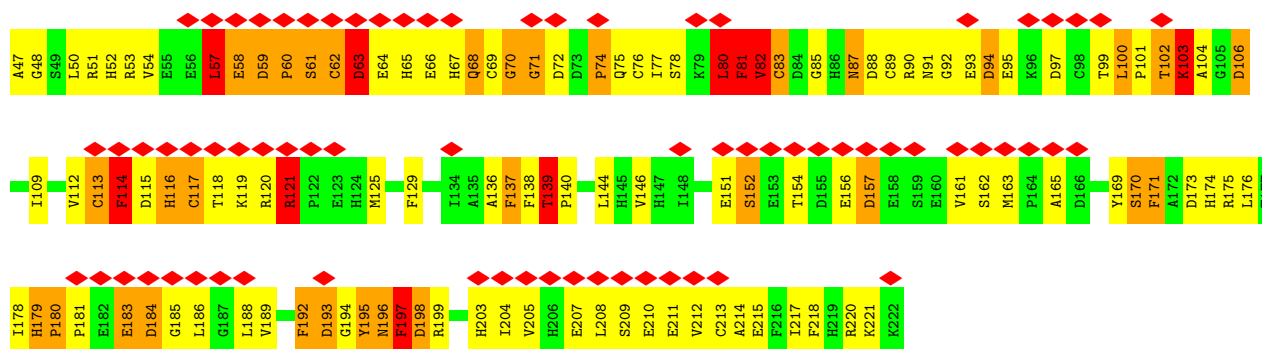


• Molecule 10: EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT

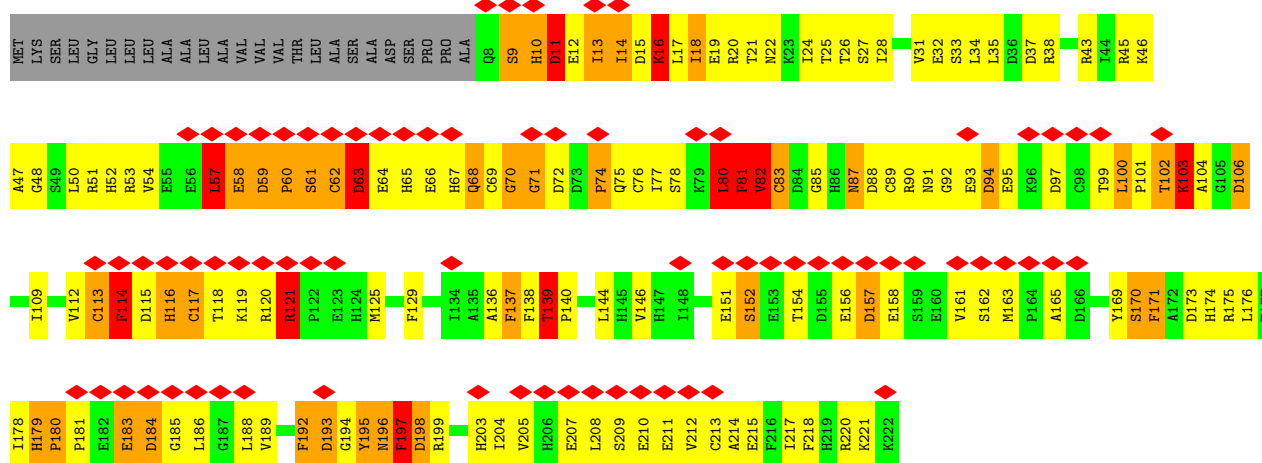


• Molecule 10: EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT

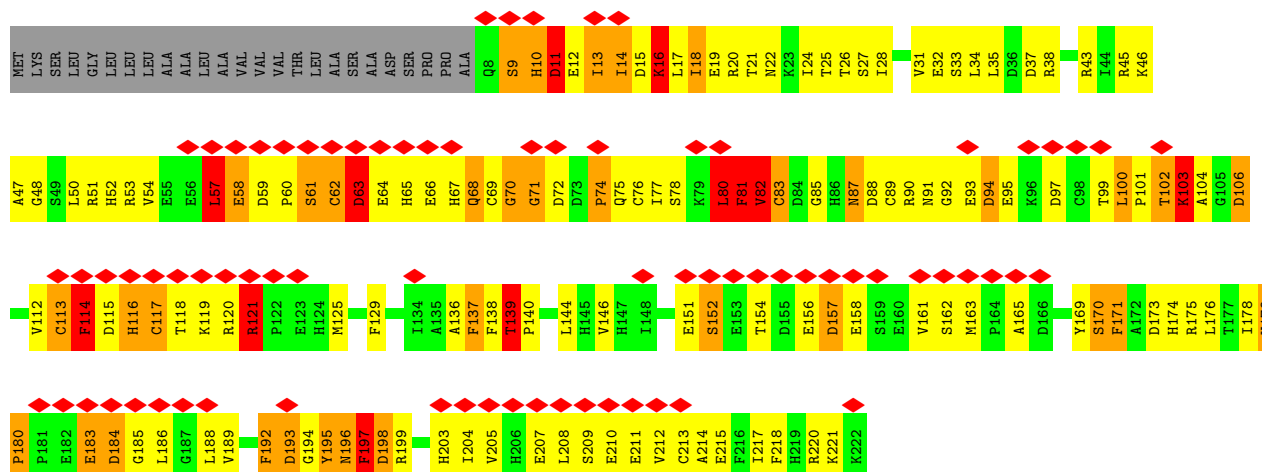




• Molecule 10: EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT

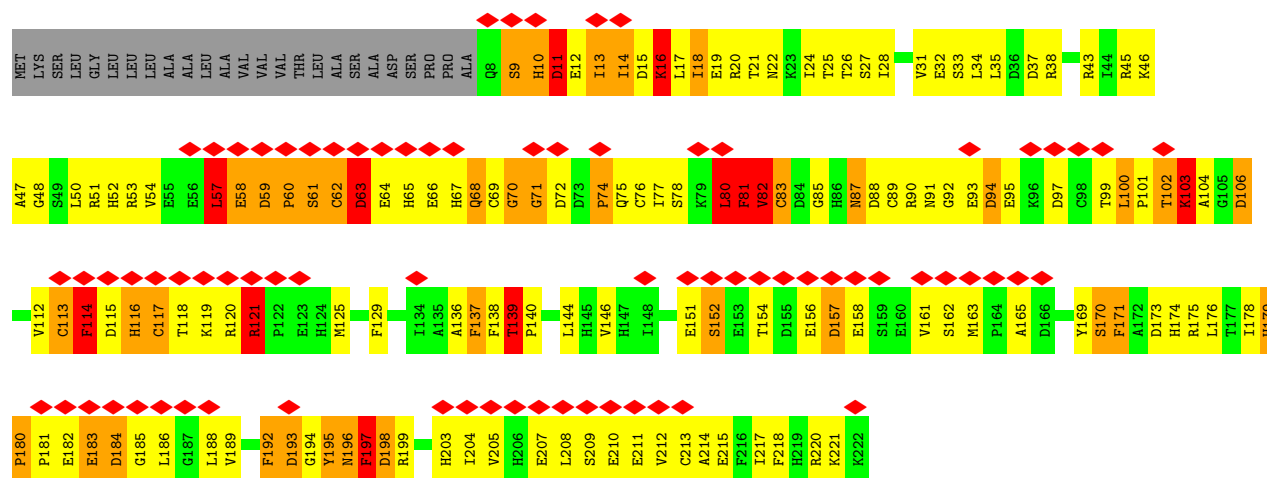


• Molecule 10: EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT

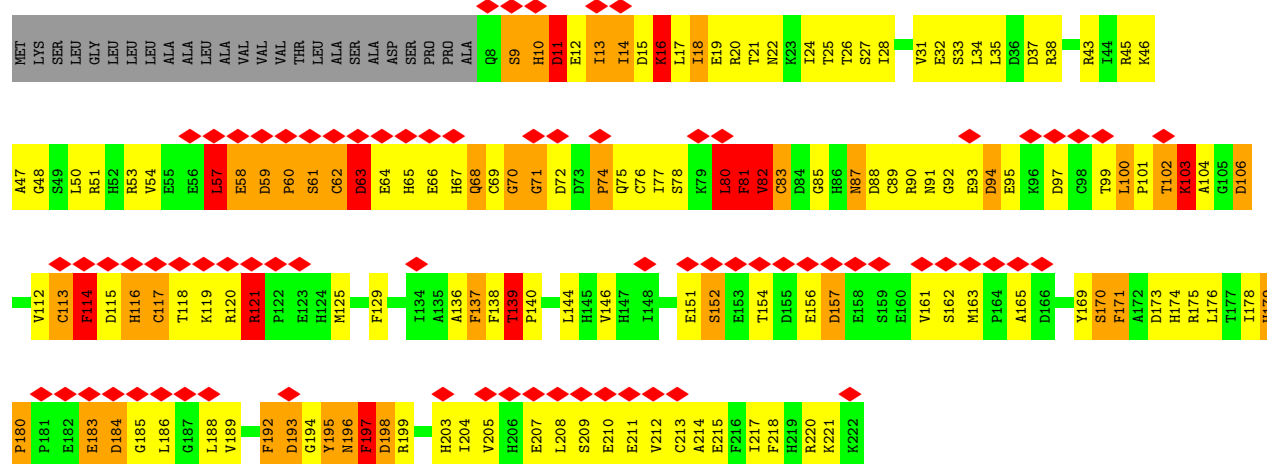


• Molecule 10: EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT

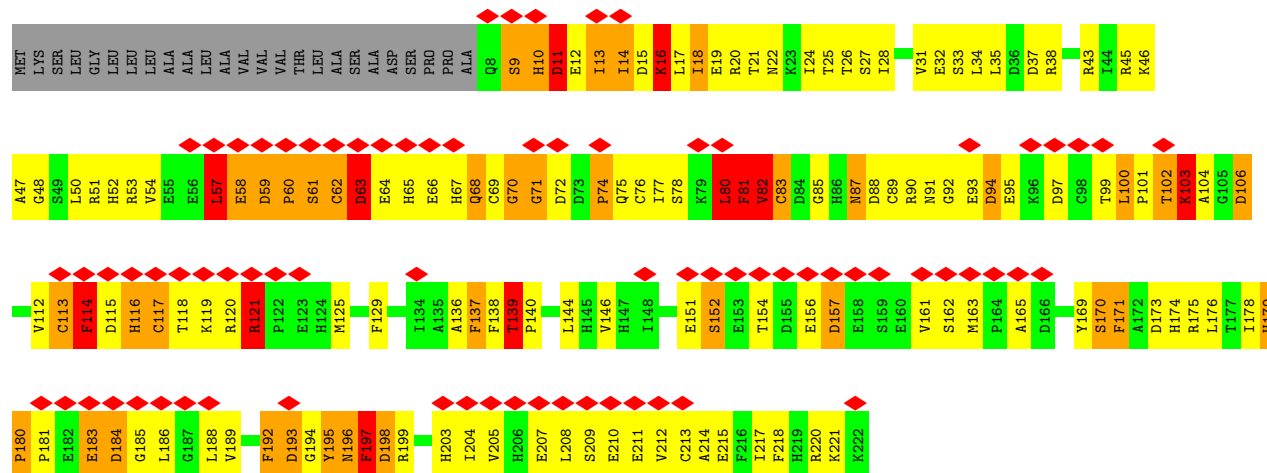




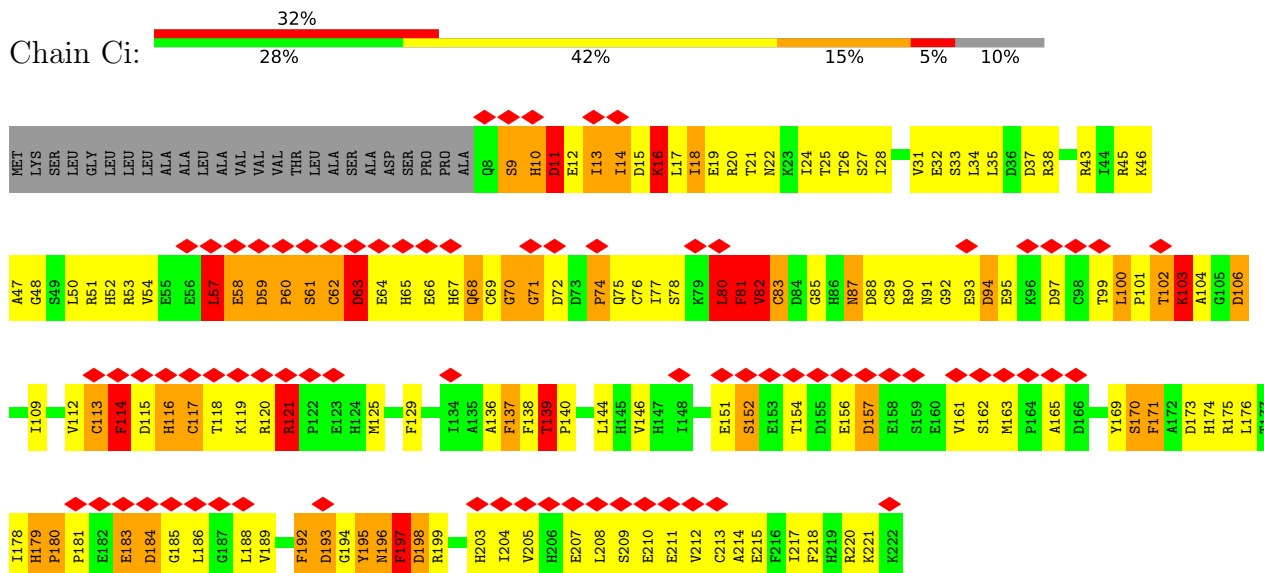
• Molecule 10: EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT



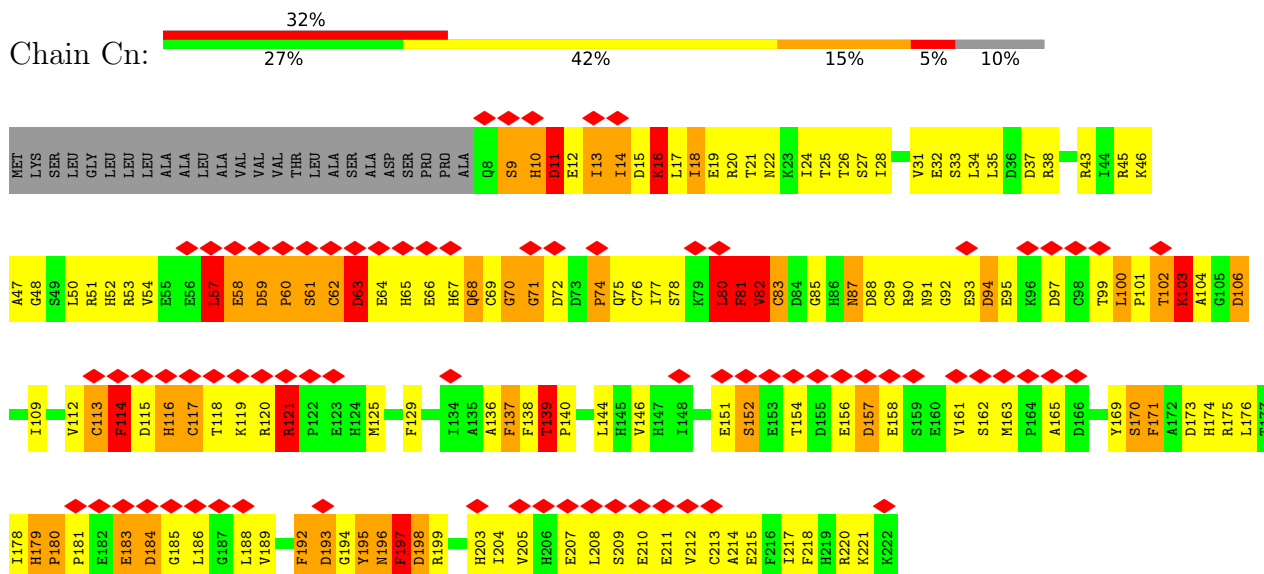
• Molecule 10: EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT



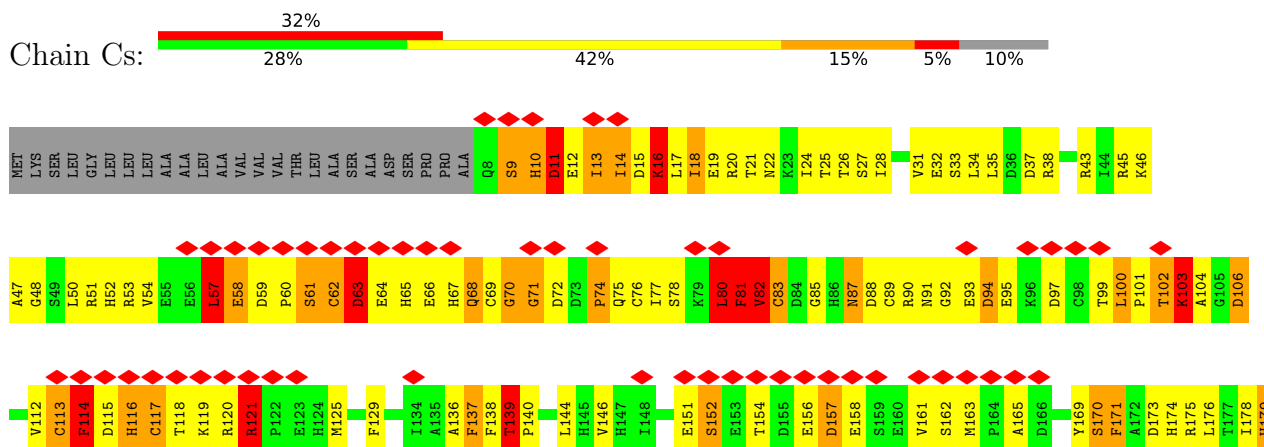
● Molecule 10: EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT



● Molecule 10: EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT

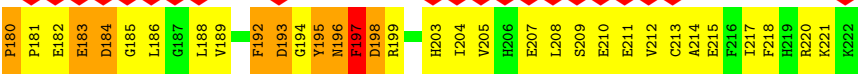
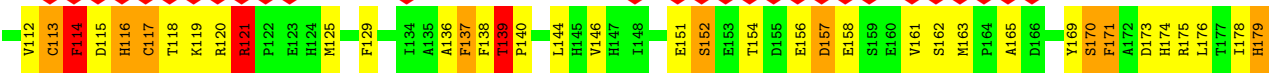


● Molecule 10: EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT





• Molecule 10: EXTRACELLULAR HEMOGLOBIN LINKER L3 SUBUNIT



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D6	Depositor
Number of particles used	4500	Depositor
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	80000	Depositor
Image detector	GATAN ULTRASCAN 4000 (4k x 4k)	Depositor
Maximum map value	0.143	Depositor
Minimum map value	-0.130	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.014	Depositor
Recommended contour level	0.042	Depositor
Map size ($\text{\AA}$)	520.0, 520.0, 520.0	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.3, 1.3, 1.3	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A0	0.69	0/1216	1.10	9/1641 (0.5%)
1	A5	0.69	0/1216	1.10	9/1641 (0.5%)
1	AC	0.69	0/1216	1.10	9/1641 (0.5%)
1	AH	0.69	0/1216	1.10	9/1641 (0.5%)
1	AM	0.69	0/1216	1.10	9/1641 (0.5%)
1	AR	0.69	0/1216	1.10	9/1641 (0.5%)
1	AW	0.69	0/1216	1.10	9/1641 (0.5%)
1	Ab	0.69	0/1216	1.10	9/1641 (0.5%)
1	Ag	0.69	0/1216	1.10	9/1641 (0.5%)
1	Al	0.69	0/1216	1.10	9/1641 (0.5%)
1	Aq	0.69	0/1216	1.10	9/1641 (0.5%)
1	Av	0.69	0/1216	1.10	9/1641 (0.5%)
2	A1	0.79	1/1159 (0.1%)	1.11	6/1568 (0.4%)
2	A6	0.79	1/1159 (0.1%)	1.11	6/1568 (0.4%)
2	AD	0.79	1/1159 (0.1%)	1.11	6/1568 (0.4%)
2	AI	0.79	1/1159 (0.1%)	1.11	6/1568 (0.4%)
2	AN	0.79	1/1159 (0.1%)	1.11	6/1568 (0.4%)
2	AS	0.79	1/1159 (0.1%)	1.11	6/1568 (0.4%)
2	AX	0.79	1/1159 (0.1%)	1.11	6/1568 (0.4%)
2	Ac	0.79	1/1159 (0.1%)	1.11	6/1568 (0.4%)
2	Ah	0.79	1/1159 (0.1%)	1.11	6/1568 (0.4%)
2	Am	0.79	1/1159 (0.1%)	1.11	6/1568 (0.4%)
2	Ar	0.79	1/1159 (0.1%)	1.11	6/1568 (0.4%)
2	Aw	0.79	1/1159 (0.1%)	1.11	6/1568 (0.4%)
3	A2	0.75	0/1237	1.22	11/1670 (0.7%)
3	A3	0.82	5/1237 (0.4%)	1.19	13/1670 (0.8%)
3	A7	0.75	0/1237	1.22	11/1670 (0.7%)
3	AA	0.82	5/1237 (0.4%)	1.19	14/1670 (0.8%)
3	AE	0.75	0/1237	1.22	11/1670 (0.7%)
3	AF	0.82	5/1237 (0.4%)	1.19	13/1670 (0.8%)
3	AJ	0.75	0/1237	1.22	11/1670 (0.7%)
3	AK	0.82	5/1237 (0.4%)	1.19	13/1670 (0.8%)
3	AO	0.75	0/1237	1.22	11/1670 (0.7%)
3	AP	0.82	5/1237 (0.4%)	1.19	14/1670 (0.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	AT	0.75	0/1237	1.22	11/1670 (0.7%)
3	AU	0.82	5/1237 (0.4%)	1.19	13/1670 (0.8%)
3	AY	0.75	0/1237	1.22	11/1670 (0.7%)
3	AZ	0.82	5/1237 (0.4%)	1.19	13/1670 (0.8%)
3	Ad	0.75	0/1237	1.22	11/1670 (0.7%)
3	Ae	0.82	5/1237 (0.4%)	1.19	14/1670 (0.8%)
3	Ai	0.75	0/1237	1.22	11/1670 (0.7%)
3	Aj	0.82	5/1237 (0.4%)	1.19	13/1670 (0.8%)
3	An	0.75	0/1237	1.22	11/1670 (0.7%)
3	Ao	0.82	5/1237 (0.4%)	1.19	13/1670 (0.8%)
3	As	0.75	0/1237	1.22	11/1670 (0.7%)
3	At	0.82	5/1237 (0.4%)	1.19	14/1670 (0.8%)
3	Ax	0.75	0/1237	1.22	11/1670 (0.7%)
3	Ay	0.82	5/1237 (0.4%)	1.19	13/1670 (0.8%)
4	A4	0.85	0/1176	1.13	7/1587 (0.4%)
4	AB	0.85	0/1176	1.13	7/1587 (0.4%)
4	AG	0.85	0/1176	1.13	7/1587 (0.4%)
4	AL	0.85	0/1176	1.13	7/1587 (0.4%)
4	AQ	0.85	0/1176	1.13	7/1587 (0.4%)
4	AV	0.85	0/1176	1.13	7/1587 (0.4%)
4	Aa	0.85	0/1176	1.13	7/1587 (0.4%)
4	Af	0.85	0/1176	1.13	7/1587 (0.4%)
4	Ak	0.85	0/1176	1.13	7/1587 (0.4%)
4	Ap	0.85	0/1176	1.13	7/1587 (0.4%)
4	Au	0.85	0/1176	1.13	7/1587 (0.4%)
4	Az	0.85	0/1176	1.13	7/1587 (0.4%)
4	B2	0.81	1/1176 (0.1%)	1.22	16/1587 (1.0%)
4	B3	0.86	0/1176	1.26	13/1587 (0.8%)
4	B7	0.81	1/1176 (0.1%)	1.22	16/1587 (1.0%)
4	BA	0.86	0/1176	1.25	13/1587 (0.8%)
4	BE	0.81	1/1176 (0.1%)	1.22	16/1587 (1.0%)
4	BF	0.86	0/1176	1.26	13/1587 (0.8%)
4	BJ	0.81	1/1176 (0.1%)	1.22	16/1587 (1.0%)
4	BK	0.86	0/1176	1.26	13/1587 (0.8%)
4	BO	0.81	1/1176 (0.1%)	1.22	16/1587 (1.0%)
4	BP	0.86	0/1176	1.25	13/1587 (0.8%)
4	BT	0.81	1/1176 (0.1%)	1.22	16/1587 (1.0%)
4	BU	0.86	0/1176	1.26	13/1587 (0.8%)
4	BY	0.81	1/1176 (0.1%)	1.22	16/1587 (1.0%)
4	BZ	0.86	0/1176	1.26	13/1587 (0.8%)
4	Bd	0.81	1/1176 (0.1%)	1.22	16/1587 (1.0%)
4	Be	0.86	0/1176	1.25	13/1587 (0.8%)
4	Bi	0.81	1/1176 (0.1%)	1.22	16/1587 (1.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
4	Bj	0.86	0/1176	1.26	13/1587 (0.8%)
4	Bn	0.81	1/1176 (0.1%)	1.22	16/1587 (1.0%)
4	Bo	0.86	0/1176	1.26	13/1587 (0.8%)
4	Bs	0.81	1/1176 (0.1%)	1.22	16/1587 (1.0%)
4	Bt	0.86	0/1176	1.25	13/1587 (0.8%)
4	Bx	0.81	1/1176 (0.1%)	1.22	16/1587 (1.0%)
4	By	0.86	0/1176	1.26	13/1587 (0.8%)
5	B0	0.80	1/1159 (0.1%)	1.16	16/1568 (1.0%)
5	B5	0.80	1/1159 (0.1%)	1.16	16/1568 (1.0%)
5	BC	0.80	1/1159 (0.1%)	1.16	16/1568 (1.0%)
5	BH	0.80	1/1159 (0.1%)	1.16	16/1568 (1.0%)
5	BM	0.80	1/1159 (0.1%)	1.16	16/1568 (1.0%)
5	BR	0.80	1/1159 (0.1%)	1.16	16/1568 (1.0%)
5	BW	0.80	1/1159 (0.1%)	1.16	16/1568 (1.0%)
5	Bb	0.80	1/1159 (0.1%)	1.16	16/1568 (1.0%)
5	Bg	0.80	1/1159 (0.1%)	1.16	16/1568 (1.0%)
5	Bl	0.80	1/1159 (0.1%)	1.16	16/1568 (1.0%)
5	Bq	0.80	1/1159 (0.1%)	1.16	16/1568 (1.0%)
5	Bv	0.80	1/1159 (0.1%)	1.16	16/1568 (1.0%)
5	C4	0.79	0/1159	1.15	13/1568 (0.8%)
5	CB	0.79	0/1159	1.15	12/1568 (0.8%)
5	CG	0.79	0/1159	1.15	13/1568 (0.8%)
5	CL	0.79	0/1159	1.15	13/1568 (0.8%)
5	CQ	0.79	0/1159	1.15	12/1568 (0.8%)
5	CV	0.79	0/1159	1.15	13/1568 (0.8%)
5	Ca	0.79	0/1159	1.15	13/1568 (0.8%)
5	Cf	0.79	0/1159	1.15	12/1568 (0.8%)
5	Ck	0.79	0/1159	1.15	13/1568 (0.8%)
5	Cp	0.79	0/1159	1.15	13/1568 (0.8%)
5	Cu	0.79	0/1159	1.15	12/1568 (0.8%)
5	Cz	0.79	0/1159	1.15	13/1568 (0.8%)
6	B1	0.78	3/1237 (0.2%)	1.29	12/1670 (0.7%)
6	B6	0.78	3/1237 (0.2%)	1.29	12/1670 (0.7%)
6	BD	0.78	3/1237 (0.2%)	1.30	12/1670 (0.7%)
6	BI	0.78	3/1237 (0.2%)	1.29	12/1670 (0.7%)
6	BN	0.78	3/1237 (0.2%)	1.29	12/1670 (0.7%)
6	BS	0.78	3/1237 (0.2%)	1.30	12/1670 (0.7%)
6	BX	0.78	3/1237 (0.2%)	1.29	12/1670 (0.7%)
6	Bc	0.78	3/1237 (0.2%)	1.29	12/1670 (0.7%)
6	Bh	0.78	3/1237 (0.2%)	1.30	12/1670 (0.7%)
6	Bm	0.78	3/1237 (0.2%)	1.29	12/1670 (0.7%)
6	Br	0.78	3/1237 (0.2%)	1.29	12/1670 (0.7%)
6	Bw	0.78	3/1237 (0.2%)	1.30	12/1670 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
7	B4	0.68	1/1215 (0.1%)	1.07	9/1641 (0.5%)
7	BB	0.68	1/1215 (0.1%)	1.07	9/1641 (0.5%)
7	BG	0.68	1/1215 (0.1%)	1.07	9/1641 (0.5%)
7	BL	0.68	1/1215 (0.1%)	1.07	9/1641 (0.5%)
7	BQ	0.68	1/1215 (0.1%)	1.07	9/1641 (0.5%)
7	BV	0.68	1/1215 (0.1%)	1.07	9/1641 (0.5%)
7	Ba	0.68	1/1215 (0.1%)	1.07	9/1641 (0.5%)
7	Bf	0.68	1/1215 (0.1%)	1.07	9/1641 (0.5%)
7	Bk	0.68	1/1215 (0.1%)	1.07	9/1641 (0.5%)
7	Bp	0.68	1/1215 (0.1%)	1.07	9/1641 (0.5%)
7	Bu	0.68	1/1215 (0.1%)	1.07	9/1641 (0.5%)
7	Bz	0.68	1/1215 (0.1%)	1.07	9/1641 (0.5%)
7	C3	0.70	1/1215 (0.1%)	1.09	11/1641 (0.7%)
7	CA	0.71	1/1215 (0.1%)	1.09	11/1641 (0.7%)
7	CF	0.70	1/1215 (0.1%)	1.09	11/1641 (0.7%)
7	CK	0.70	1/1215 (0.1%)	1.09	11/1641 (0.7%)
7	CP	0.71	1/1215 (0.1%)	1.09	11/1641 (0.7%)
7	CU	0.70	1/1215 (0.1%)	1.09	11/1641 (0.7%)
7	CZ	0.70	1/1215 (0.1%)	1.09	11/1641 (0.7%)
7	Ce	0.71	1/1215 (0.1%)	1.09	11/1641 (0.7%)
7	Cj	0.70	1/1215 (0.1%)	1.09	11/1641 (0.7%)
7	Co	0.70	1/1215 (0.1%)	1.09	11/1641 (0.7%)
7	Ct	0.71	1/1215 (0.1%)	1.09	11/1641 (0.7%)
7	Cy	0.70	1/1215 (0.1%)	1.09	11/1641 (0.7%)
8	C0	1.32	9/1789 (0.5%)	2.06	94/2418 (3.9%)
8	C5	1.32	9/1789 (0.5%)	2.06	93/2418 (3.8%)
8	CC	1.32	9/1789 (0.5%)	2.06	93/2418 (3.8%)
8	CH	1.32	9/1789 (0.5%)	2.06	94/2418 (3.9%)
8	CM	1.32	9/1789 (0.5%)	2.06	93/2418 (3.8%)
8	CR	1.32	9/1789 (0.5%)	2.06	93/2418 (3.8%)
8	CW	1.32	9/1789 (0.5%)	2.06	94/2418 (3.9%)
8	Cb	1.32	9/1789 (0.5%)	2.06	93/2418 (3.8%)
8	Cg	1.32	9/1789 (0.5%)	2.06	93/2418 (3.8%)
8	Cl	1.32	9/1789 (0.5%)	2.06	94/2418 (3.9%)
8	Cq	1.32	9/1789 (0.5%)	2.06	93/2418 (3.8%)
8	Cv	1.32	9/1789 (0.5%)	2.06	93/2418 (3.8%)
9	C1	1.23	6/1786 (0.3%)	1.84	69/2412 (2.9%)
9	C6	1.23	6/1786 (0.3%)	1.84	68/2412 (2.8%)
9	CD	1.23	6/1786 (0.3%)	1.84	68/2412 (2.8%)
9	CI	1.23	6/1786 (0.3%)	1.84	69/2412 (2.9%)
9	CN	1.23	6/1786 (0.3%)	1.84	68/2412 (2.8%)
9	CS	1.23	6/1786 (0.3%)	1.84	68/2412 (2.8%)
9	CX	1.23	6/1786 (0.3%)	1.84	69/2412 (2.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
9	Cc	1.23	6/1786 (0.3%)	1.84	68/2412 (2.8%)
9	Ch	1.23	6/1786 (0.3%)	1.84	68/2412 (2.8%)
9	Cm	1.23	6/1786 (0.3%)	1.84	69/2412 (2.9%)
9	Cr	1.23	6/1786 (0.3%)	1.84	68/2412 (2.8%)
9	Cw	1.23	6/1786 (0.3%)	1.84	68/2412 (2.8%)
10	C2	1.29	9/1752 (0.5%)	2.57	73/2362 (3.1%)
10	C7	1.29	9/1752 (0.5%)	2.57	74/2362 (3.1%)
10	CE	1.29	9/1752 (0.5%)	2.57	74/2362 (3.1%)
10	CJ	1.29	9/1752 (0.5%)	2.57	73/2362 (3.1%)
10	CO	1.29	9/1752 (0.5%)	2.57	74/2362 (3.1%)
10	CT	1.29	9/1752 (0.5%)	2.57	74/2362 (3.1%)
10	CY	1.29	9/1752 (0.5%)	2.57	73/2362 (3.1%)
10	Cd	1.29	9/1752 (0.5%)	2.57	74/2362 (3.1%)
10	Ci	1.29	9/1752 (0.5%)	2.57	74/2362 (3.1%)
10	Cn	1.29	9/1752 (0.5%)	2.57	73/2362 (3.1%)
10	Cs	1.29	9/1752 (0.5%)	2.57	74/2362 (3.1%)
10	Cx	1.29	9/1752 (0.5%)	2.57	74/2362 (3.1%)
All	All	0.94	444/236268 (0.2%)	1.51	4456/319080 (1.4%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A0	0	1
1	A5	0	1
1	AC	0	1
1	AH	0	1
1	AM	0	1
1	AR	0	1
1	AW	0	1
1	Ab	0	1
1	Ag	0	1
1	Al	0	1
1	Aq	0	1
1	Av	0	1
3	A2	0	1
3	A3	0	2
3	A7	0	1
3	AA	0	2
3	AE	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	AF	0	2
3	AJ	0	1
3	AK	0	2
3	AO	0	1
3	AP	0	2
3	AT	0	1
3	AU	0	2
3	AY	0	1
3	AZ	0	2
3	Ad	0	1
3	Ae	0	2
3	Ai	0	1
3	Aj	0	2
3	An	0	1
3	Ao	0	2
3	As	0	1
3	At	0	2
3	Ax	0	1
3	Ay	0	2
4	A4	0	1
4	AB	0	1
4	AG	0	1
4	AL	0	1
4	AQ	0	1
4	AV	0	1
4	Aa	0	1
4	Af	0	1
4	Ak	0	1
4	Ap	0	1
4	Au	0	1
4	Az	0	1
4	B2	0	2
4	B3	0	2
4	B7	0	2
4	BA	0	2
4	BE	0	2
4	BF	0	2
4	BJ	0	2
4	BK	0	2
4	BO	0	2
4	BP	0	2
4	BT	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
4	BU	0	2
4	BY	0	2
4	BZ	0	2
4	Bd	0	2
4	Be	0	2
4	Bi	0	2
4	Bj	0	2
4	Bn	0	2
4	Bo	0	2
4	Bs	0	2
4	Bt	0	2
4	Bx	0	2
4	By	0	2
5	B0	0	2
5	B5	0	2
5	BC	0	2
5	BH	0	2
5	BM	0	2
5	BR	0	2
5	BW	0	2
5	Bb	0	2
5	Bg	0	2
5	Bl	0	2
5	Bq	0	2
5	Bv	0	2
5	C4	0	1
5	CB	0	1
5	CG	0	1
5	CL	0	1
5	CQ	0	1
5	CV	0	1
5	Ca	0	1
5	Cf	0	1
5	Ck	0	1
5	Cp	0	1
5	Cu	0	1
5	Cz	0	1
6	B1	0	1
6	B6	0	1
6	BD	0	1
6	BI	0	1
6	BN	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
6	BS	0	1
6	BX	0	1
6	Bc	0	1
6	Bh	0	1
6	Bm	0	1
6	Br	0	1
6	Bw	0	1
7	B4	0	3
7	BB	0	3
7	BG	0	3
7	BL	0	3
7	BQ	0	3
7	BV	0	3
7	Ba	0	3
7	Bf	0	3
7	Bk	0	3
7	Bp	0	3
7	Bu	0	3
7	Bz	0	3
7	C3	0	2
7	CA	0	2
7	CF	0	2
7	CK	0	2
7	CP	0	2
7	CU	0	2
7	CZ	0	2
7	Ce	0	2
7	Cj	0	2
7	Co	0	2
7	Ct	0	2
7	Cy	0	2
8	C0	0	12
8	C5	0	12
8	CC	0	12
8	CH	0	12
8	CM	0	12
8	CR	0	12
8	CW	0	12
8	Cb	0	12
8	Cg	0	12
8	Cl	0	12
8	Cq	0	12

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Mol	Chain	#Chirality outliers	#Planarity outliers
8	Cv	0	12
9	C1	0	10
9	C6	0	10
9	CD	0	10
9	CI	0	10
9	CN	0	10
9	CS	0	10
9	CX	0	10
9	Cc	0	10
9	Ch	0	10
9	Cm	0	10
9	Cr	0	10
9	Cw	0	10
10	C2	0	8
10	C7	0	8
10	CE	0	8
10	CJ	0	8
10	CO	0	8
10	CT	0	8
10	CY	0	8
10	Cd	0	8
10	Ci	0	8
10	Cn	0	8
10	Cs	0	8
10	Cx	0	8
All	All	0	576

All (444) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	C7	57	LEU	C-N	20.46	1.62	1.33
10	CO	57	LEU	C-N	20.46	1.62	1.33
10	Cd	57	LEU	C-N	20.46	1.62	1.33
10	Cs	57	LEU	C-N	20.46	1.62	1.33
10	C2	57	LEU	C-N	20.45	1.62	1.33
10	CJ	57	LEU	C-N	20.45	1.62	1.33
10	CY	57	LEU	C-N	20.45	1.62	1.33
10	Cn	57	LEU	C-N	20.45	1.62	1.33
10	CE	57	LEU	C-N	20.39	1.62	1.33
10	CT	57	LEU	C-N	20.39	1.62	1.33
10	Ci	57	LEU	C-N	20.39	1.62	1.33
10	Cx	57	LEU	C-N	20.39	1.62	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	C0	138	LYS	CA-C	-6.79	1.45	1.53
8	CC	138	LYS	CA-C	-6.79	1.45	1.53
8	CH	138	LYS	CA-C	-6.79	1.45	1.53
8	CR	138	LYS	CA-C	-6.79	1.45	1.53
8	CW	138	LYS	CA-C	-6.79	1.45	1.53
8	Cg	138	LYS	CA-C	-6.79	1.45	1.53
8	Cl	138	LYS	CA-C	-6.79	1.45	1.53
8	Cv	138	LYS	CA-C	-6.79	1.45	1.53
8	C5	138	LYS	CA-C	-6.76	1.45	1.53
8	CM	138	LYS	CA-C	-6.76	1.45	1.53
8	Cb	138	LYS	CA-C	-6.76	1.45	1.53
8	Cq	138	LYS	CA-C	-6.76	1.45	1.53
10	CE	103	LYS	CA-C	-6.57	1.45	1.53
10	CT	103	LYS	CA-C	-6.57	1.45	1.53
10	Ci	103	LYS	CA-C	-6.57	1.45	1.53
10	Cx	103	LYS	CA-C	-6.57	1.45	1.53
10	C7	103	LYS	CA-C	-6.55	1.45	1.53
10	CO	103	LYS	CA-C	-6.55	1.45	1.53
10	Cd	103	LYS	CA-C	-6.55	1.45	1.53
10	Cs	103	LYS	CA-C	-6.55	1.45	1.53
10	C2	103	LYS	CA-C	-6.53	1.45	1.53
10	CJ	103	LYS	CA-C	-6.53	1.45	1.53
10	CY	103	LYS	CA-C	-6.53	1.45	1.53
10	Cn	103	LYS	CA-C	-6.53	1.45	1.53
8	C0	189	GLY	CA-C	-6.48	1.46	1.52
8	CH	189	GLY	CA-C	-6.48	1.46	1.52
8	CW	189	GLY	CA-C	-6.48	1.46	1.52
8	Cl	189	GLY	CA-C	-6.48	1.46	1.52
8	C5	189	GLY	CA-C	-6.47	1.46	1.52
8	CM	189	GLY	CA-C	-6.47	1.46	1.52
8	Cb	189	GLY	CA-C	-6.47	1.46	1.52
8	Cq	189	GLY	CA-C	-6.47	1.46	1.52
8	CC	189	GLY	CA-C	-6.43	1.46	1.52
8	CR	189	GLY	CA-C	-6.43	1.46	1.52
8	Cg	189	GLY	CA-C	-6.43	1.46	1.52
8	Cv	189	GLY	CA-C	-6.43	1.46	1.52
10	C7	195	TYR	CA-C	-6.33	1.44	1.52
10	CO	195	TYR	CA-C	-6.33	1.44	1.52
10	Cd	195	TYR	CA-C	-6.33	1.44	1.52
10	Cs	195	TYR	CA-C	-6.33	1.44	1.52
10	CE	195	TYR	CA-C	-6.31	1.44	1.52
10	CT	195	TYR	CA-C	-6.31	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	Ci	195	TYR	CA-C	-6.31	1.44	1.52
10	Cx	195	TYR	CA-C	-6.31	1.44	1.52
10	C2	195	TYR	CA-C	-6.31	1.44	1.52
10	CJ	195	TYR	CA-C	-6.31	1.44	1.52
10	CY	195	TYR	CA-C	-6.31	1.44	1.52
10	Cn	195	TYR	CA-C	-6.31	1.44	1.52
3	AA	27	PHE	CA-C	-6.26	1.45	1.52
3	AP	27	PHE	CA-C	-6.26	1.45	1.52
3	Ae	27	PHE	CA-C	-6.26	1.45	1.52
3	At	27	PHE	CA-C	-6.26	1.45	1.52
3	AF	27	PHE	CA-C	-6.25	1.45	1.52
3	AU	27	PHE	CA-C	-6.25	1.45	1.52
3	Aj	27	PHE	CA-C	-6.25	1.45	1.52
3	Ay	27	PHE	CA-C	-6.25	1.45	1.52
9	CD	42	ASP	CA-C	-6.24	1.45	1.52
9	CS	42	ASP	CA-C	-6.24	1.45	1.52
9	Ch	42	ASP	CA-C	-6.24	1.45	1.52
9	Cw	42	ASP	CA-C	-6.24	1.45	1.52
3	A3	27	PHE	CA-C	-6.23	1.45	1.52
3	AK	27	PHE	CA-C	-6.23	1.45	1.52
3	AZ	27	PHE	CA-C	-6.23	1.45	1.52
3	Ao	27	PHE	CA-C	-6.23	1.45	1.52
9	C1	42	ASP	CA-C	-6.23	1.45	1.52
9	CI	42	ASP	CA-C	-6.23	1.45	1.52
9	CX	42	ASP	CA-C	-6.23	1.45	1.52
9	Cm	42	ASP	CA-C	-6.23	1.45	1.52
9	C6	42	ASP	CA-C	-6.19	1.45	1.52
9	CN	42	ASP	CA-C	-6.19	1.45	1.52
9	Cc	42	ASP	CA-C	-6.19	1.45	1.52
9	Cr	42	ASP	CA-C	-6.19	1.45	1.52
8	C0	146	TRP	CA-C	-5.94	1.45	1.52
8	CH	146	TRP	CA-C	-5.94	1.45	1.52
8	CW	146	TRP	CA-C	-5.94	1.45	1.52
8	Cl	146	TRP	CA-C	-5.94	1.45	1.52
8	C5	146	TRP	CA-C	-5.92	1.45	1.52
8	CM	146	TRP	CA-C	-5.92	1.45	1.52
8	Cb	146	TRP	CA-C	-5.92	1.45	1.52
8	Cq	146	TRP	CA-C	-5.92	1.45	1.52
8	CC	146	TRP	CA-C	-5.91	1.45	1.52
8	CR	146	TRP	CA-C	-5.91	1.45	1.52
8	Cg	146	TRP	CA-C	-5.91	1.45	1.52
8	Cv	146	TRP	CA-C	-5.91	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	BD	150	LEU	CA-C	-5.83	1.45	1.52
6	BS	150	LEU	CA-C	-5.83	1.45	1.52
6	Bh	150	LEU	CA-C	-5.83	1.45	1.52
6	Bw	150	LEU	CA-C	-5.83	1.45	1.52
6	B6	150	LEU	CA-C	-5.80	1.45	1.52
6	BN	150	LEU	CA-C	-5.80	1.45	1.52
6	Bc	150	LEU	CA-C	-5.80	1.45	1.52
6	Br	150	LEU	CA-C	-5.80	1.45	1.52
3	A3	7	CYS	CA-C	-5.79	1.45	1.52
3	AK	7	CYS	CA-C	-5.79	1.45	1.52
3	AZ	7	CYS	CA-C	-5.79	1.45	1.52
3	Ao	7	CYS	CA-C	-5.79	1.45	1.52
6	B1	150	LEU	CA-C	-5.79	1.45	1.52
6	BI	150	LEU	CA-C	-5.79	1.45	1.52
6	BX	150	LEU	CA-C	-5.79	1.45	1.52
6	Bm	150	LEU	CA-C	-5.79	1.45	1.52
3	AF	7	CYS	CA-C	-5.75	1.45	1.52
3	AU	7	CYS	CA-C	-5.75	1.45	1.52
3	Aj	7	CYS	CA-C	-5.75	1.45	1.52
3	Ay	7	CYS	CA-C	-5.75	1.45	1.52
3	AA	7	CYS	CA-C	-5.75	1.45	1.52
3	AP	7	CYS	CA-C	-5.75	1.45	1.52
3	Ae	7	CYS	CA-C	-5.75	1.45	1.52
3	At	7	CYS	CA-C	-5.75	1.45	1.52
8	C0	140	PHE	CA-C	-5.64	1.44	1.52
8	CH	140	PHE	CA-C	-5.64	1.44	1.52
8	CW	140	PHE	CA-C	-5.64	1.44	1.52
8	Cl	140	PHE	CA-C	-5.64	1.44	1.52
8	CC	140	PHE	CA-C	-5.63	1.44	1.52
8	CR	140	PHE	CA-C	-5.63	1.44	1.52
8	Cg	140	PHE	CA-C	-5.63	1.44	1.52
8	Cv	140	PHE	CA-C	-5.63	1.44	1.52
8	C5	140	PHE	CA-C	-5.62	1.44	1.52
8	CM	140	PHE	CA-C	-5.62	1.44	1.52
8	Cb	140	PHE	CA-C	-5.62	1.44	1.52
8	Cq	140	PHE	CA-C	-5.62	1.44	1.52
8	CC	125	PRO	CA-C	-5.58	1.46	1.52
8	CR	125	PRO	CA-C	-5.58	1.46	1.52
8	Cg	125	PRO	CA-C	-5.58	1.46	1.52
8	Cv	125	PRO	CA-C	-5.58	1.46	1.52
8	C5	125	PRO	CA-C	-5.58	1.46	1.52
8	CM	125	PRO	CA-C	-5.58	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	Cb	125	PRO	CA-C	-5.58	1.46	1.52
8	Cq	125	PRO	CA-C	-5.58	1.46	1.52
8	C0	125	PRO	CA-C	-5.56	1.46	1.52
8	CH	125	PRO	CA-C	-5.56	1.46	1.52
8	CW	125	PRO	CA-C	-5.56	1.46	1.52
8	Cl	125	PRO	CA-C	-5.56	1.46	1.52
3	AF	6	CYS	CA-C	-5.52	1.45	1.53
3	AU	6	CYS	CA-C	-5.52	1.45	1.53
3	Aj	6	CYS	CA-C	-5.52	1.45	1.53
3	Ay	6	CYS	CA-C	-5.52	1.45	1.53
2	A6	105	ASN	CA-C	-5.51	1.45	1.52
2	AN	105	ASN	CA-C	-5.51	1.45	1.52
2	Ac	105	ASN	CA-C	-5.51	1.45	1.52
2	Ar	105	ASN	CA-C	-5.51	1.45	1.52
3	AA	6	CYS	CA-C	-5.50	1.45	1.53
3	AP	6	CYS	CA-C	-5.50	1.45	1.53
3	Ae	6	CYS	CA-C	-5.50	1.45	1.53
3	At	6	CYS	CA-C	-5.50	1.45	1.53
8	C0	40	HIS	CA-C	-5.49	1.46	1.52
8	C5	40	HIS	CA-C	-5.49	1.46	1.52
8	CH	40	HIS	CA-C	-5.49	1.46	1.52
8	CM	40	HIS	CA-C	-5.49	1.46	1.52
8	CW	40	HIS	CA-C	-5.49	1.46	1.52
8	Cb	40	HIS	CA-C	-5.49	1.46	1.52
8	Cl	40	HIS	CA-C	-5.49	1.46	1.52
8	Cq	40	HIS	CA-C	-5.49	1.46	1.52
10	C7	74	PRO	N-CA	-5.48	1.41	1.47
10	CO	74	PRO	N-CA	-5.48	1.41	1.47
10	Cd	74	PRO	N-CA	-5.48	1.41	1.47
10	Cs	74	PRO	N-CA	-5.48	1.41	1.47
3	A3	6	CYS	CA-C	-5.48	1.45	1.53
3	AK	6	CYS	CA-C	-5.48	1.45	1.53
3	AZ	6	CYS	CA-C	-5.48	1.45	1.53
3	Ao	6	CYS	CA-C	-5.48	1.45	1.53
3	AA	48	THR	N-CA	-5.47	1.39	1.46
3	AP	48	THR	N-CA	-5.47	1.39	1.46
3	Ae	48	THR	N-CA	-5.47	1.39	1.46
3	At	48	THR	N-CA	-5.47	1.39	1.46
8	CC	40	HIS	CA-C	-5.47	1.46	1.52
8	CR	40	HIS	CA-C	-5.47	1.46	1.52
8	Cg	40	HIS	CA-C	-5.47	1.46	1.52
8	Cv	40	HIS	CA-C	-5.47	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A1	105	ASN	CA-C	-5.46	1.46	1.52
2	AI	105	ASN	CA-C	-5.46	1.46	1.52
2	AX	105	ASN	CA-C	-5.46	1.46	1.52
2	Am	105	ASN	CA-C	-5.46	1.46	1.52
8	CC	156	ASP	CA-C	-5.46	1.45	1.52
8	CR	156	ASP	CA-C	-5.46	1.45	1.52
8	Cg	156	ASP	CA-C	-5.46	1.45	1.52
8	Cv	156	ASP	CA-C	-5.46	1.45	1.52
3	A3	48	THR	N-CA	-5.45	1.39	1.46
3	AK	48	THR	N-CA	-5.45	1.39	1.46
3	AZ	48	THR	N-CA	-5.45	1.39	1.46
3	Ao	48	THR	N-CA	-5.45	1.39	1.46
3	AF	48	THR	N-CA	-5.44	1.39	1.46
3	AU	48	THR	N-CA	-5.44	1.39	1.46
3	Aj	48	THR	N-CA	-5.44	1.39	1.46
3	Ay	48	THR	N-CA	-5.44	1.39	1.46
10	C7	60	PRO	N-CA	-5.44	1.40	1.47
10	CO	60	PRO	N-CA	-5.44	1.40	1.47
10	Cd	60	PRO	N-CA	-5.44	1.40	1.47
10	Cs	60	PRO	N-CA	-5.44	1.40	1.47
10	C2	74	PRO	N-CA	-5.44	1.41	1.47
10	CJ	74	PRO	N-CA	-5.44	1.41	1.47
10	CY	74	PRO	N-CA	-5.44	1.41	1.47
10	Cn	74	PRO	N-CA	-5.44	1.41	1.47
3	AA	26	SER	CA-C	-5.43	1.45	1.52
3	AP	26	SER	CA-C	-5.43	1.45	1.52
3	Ae	26	SER	CA-C	-5.43	1.45	1.52
3	At	26	SER	CA-C	-5.43	1.45	1.52
10	CE	60	PRO	N-CA	-5.43	1.40	1.47
10	CT	60	PRO	N-CA	-5.43	1.40	1.47
10	Ci	60	PRO	N-CA	-5.43	1.40	1.47
10	Cx	60	PRO	N-CA	-5.43	1.40	1.47
8	C5	156	ASP	CA-C	-5.43	1.45	1.52
8	CM	156	ASP	CA-C	-5.43	1.45	1.52
8	Cb	156	ASP	CA-C	-5.43	1.45	1.52
8	Cq	156	ASP	CA-C	-5.43	1.45	1.52
6	B6	150	LEU	N-CA	-5.43	1.40	1.46
6	BN	150	LEU	N-CA	-5.43	1.40	1.46
6	Bc	150	LEU	N-CA	-5.43	1.40	1.46
6	Br	150	LEU	N-CA	-5.43	1.40	1.46
8	C0	156	ASP	CA-C	-5.42	1.45	1.52
8	CH	156	ASP	CA-C	-5.42	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	CW	156	ASP	CA-C	-5.42	1.45	1.52
8	Cl	156	ASP	CA-C	-5.42	1.45	1.52
6	B1	150	LEU	N-CA	-5.42	1.40	1.46
6	BI	150	LEU	N-CA	-5.42	1.40	1.46
6	BX	150	LEU	N-CA	-5.42	1.40	1.46
6	Bm	150	LEU	N-CA	-5.42	1.40	1.46
6	BD	150	LEU	N-CA	-5.41	1.40	1.46
6	BS	150	LEU	N-CA	-5.41	1.40	1.46
6	Bh	150	LEU	N-CA	-5.41	1.40	1.46
6	Bw	150	LEU	N-CA	-5.41	1.40	1.46
10	CE	74	PRO	N-CA	-5.40	1.41	1.47
10	CT	74	PRO	N-CA	-5.40	1.41	1.47
10	Ci	74	PRO	N-CA	-5.40	1.41	1.47
10	Cx	74	PRO	N-CA	-5.40	1.41	1.47
2	AD	105	ASN	CA-C	-5.40	1.46	1.52
2	AS	105	ASN	CA-C	-5.40	1.46	1.52
2	Ah	105	ASN	CA-C	-5.40	1.46	1.52
2	Aw	105	ASN	CA-C	-5.40	1.46	1.52
10	C2	60	PRO	N-CA	-5.40	1.40	1.47
10	CJ	60	PRO	N-CA	-5.40	1.40	1.47
10	CY	60	PRO	N-CA	-5.40	1.40	1.47
10	Cn	60	PRO	N-CA	-5.40	1.40	1.47
9	CD	74	GLN	CA-C	-5.40	1.47	1.53
9	CS	74	GLN	CA-C	-5.40	1.47	1.53
9	Ch	74	GLN	CA-C	-5.40	1.47	1.53
9	Cw	74	GLN	CA-C	-5.40	1.47	1.53
10	C7	90	ARG	CA-C	-5.38	1.45	1.52
10	CO	90	ARG	CA-C	-5.38	1.45	1.52
10	Cd	90	ARG	CA-C	-5.38	1.45	1.52
10	Cs	90	ARG	CA-C	-5.38	1.45	1.52
9	C6	74	GLN	CA-C	-5.37	1.47	1.53
9	CN	74	GLN	CA-C	-5.37	1.47	1.53
9	Cc	74	GLN	CA-C	-5.37	1.47	1.53
9	Cr	74	GLN	CA-C	-5.37	1.47	1.53
10	CE	90	ARG	CA-C	-5.36	1.45	1.52
10	CT	90	ARG	CA-C	-5.36	1.45	1.52
10	Ci	90	ARG	CA-C	-5.36	1.45	1.52
10	Cx	90	ARG	CA-C	-5.36	1.45	1.52
10	C2	90	ARG	CA-C	-5.36	1.45	1.52
10	CJ	90	ARG	CA-C	-5.36	1.45	1.52
10	CY	90	ARG	CA-C	-5.36	1.45	1.52
10	Cn	90	ARG	CA-C	-5.36	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	C1	74	GLN	CA-C	-5.35	1.47	1.53
9	CI	74	GLN	CA-C	-5.35	1.47	1.53
9	CX	74	GLN	CA-C	-5.35	1.47	1.53
9	Cm	74	GLN	CA-C	-5.35	1.47	1.53
8	C5	145	VAL	CA-C	-5.34	1.47	1.53
8	CM	145	VAL	CA-C	-5.34	1.47	1.53
8	Cb	145	VAL	CA-C	-5.34	1.47	1.53
8	Cq	145	VAL	CA-C	-5.34	1.47	1.53
7	BG	7	CYS	CA-C	-5.33	1.45	1.52
7	BV	7	CYS	CA-C	-5.33	1.45	1.52
7	Bk	7	CYS	CA-C	-5.33	1.45	1.52
7	Bz	7	CYS	CA-C	-5.33	1.45	1.52
7	B4	7	CYS	CA-C	-5.31	1.45	1.52
7	BL	7	CYS	CA-C	-5.31	1.45	1.52
7	Ba	7	CYS	CA-C	-5.31	1.45	1.52
7	Bp	7	CYS	CA-C	-5.31	1.45	1.52
7	BB	7	CYS	CA-C	-5.29	1.45	1.52
7	BQ	7	CYS	CA-C	-5.29	1.45	1.52
7	Bf	7	CYS	CA-C	-5.29	1.45	1.52
7	Bu	7	CYS	CA-C	-5.29	1.45	1.52
8	CC	145	VAL	CA-C	-5.29	1.47	1.53
8	CR	145	VAL	CA-C	-5.29	1.47	1.53
8	Cg	145	VAL	CA-C	-5.29	1.47	1.53
8	Cv	145	VAL	CA-C	-5.29	1.47	1.53
9	C1	199	ARG	N-CA	-5.28	1.39	1.46
9	CI	199	ARG	N-CA	-5.28	1.39	1.46
9	CX	199	ARG	N-CA	-5.28	1.39	1.46
9	Cm	199	ARG	N-CA	-5.28	1.39	1.46
8	C0	145	VAL	CA-C	-5.28	1.47	1.53
8	CH	145	VAL	CA-C	-5.28	1.47	1.53
8	CW	145	VAL	CA-C	-5.28	1.47	1.53
8	Cl	145	VAL	CA-C	-5.28	1.47	1.53
6	B6	147	ALA	CA-C	-5.27	1.46	1.52
6	BN	147	ALA	CA-C	-5.27	1.46	1.52
6	Bc	147	ALA	CA-C	-5.27	1.46	1.52
6	Br	147	ALA	CA-C	-5.27	1.46	1.52
9	C6	137	ARG	CA-C	-5.27	1.48	1.53
9	CN	137	ARG	CA-C	-5.27	1.48	1.53
9	Cc	137	ARG	CA-C	-5.27	1.48	1.53
9	Cr	137	ARG	CA-C	-5.27	1.48	1.53
9	C6	199	ARG	N-CA	-5.25	1.40	1.46
9	CN	199	ARG	N-CA	-5.25	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	Cc	199	ARG	N-CA	-5.25	1.40	1.46
9	Cr	199	ARG	N-CA	-5.25	1.40	1.46
9	CD	199	ARG	N-CA	-5.24	1.40	1.46
9	CS	199	ARG	N-CA	-5.24	1.40	1.46
9	Ch	199	ARG	N-CA	-5.24	1.40	1.46
9	Cw	199	ARG	N-CA	-5.24	1.40	1.46
6	B1	147	ALA	CA-C	-5.23	1.46	1.52
6	BI	147	ALA	CA-C	-5.23	1.46	1.52
6	BX	147	ALA	CA-C	-5.23	1.46	1.52
6	Bm	147	ALA	CA-C	-5.23	1.46	1.52
6	BD	147	ALA	CA-C	-5.23	1.46	1.52
6	BS	147	ALA	CA-C	-5.23	1.46	1.52
6	Bh	147	ALA	CA-C	-5.23	1.46	1.52
6	Bw	147	ALA	CA-C	-5.23	1.46	1.52
10	CE	68	GLN	C-N	5.22	1.41	1.33
10	CT	68	GLN	C-N	5.22	1.41	1.33
10	Ci	68	GLN	C-N	5.22	1.41	1.33
10	Cx	68	GLN	C-N	5.22	1.41	1.33
10	C2	68	GLN	C-N	5.22	1.41	1.33
10	CJ	68	GLN	C-N	5.22	1.41	1.33
10	CY	68	GLN	C-N	5.22	1.41	1.33
10	Cn	68	GLN	C-N	5.22	1.41	1.33
9	C1	137	ARG	CA-C	-5.22	1.48	1.53
9	CI	137	ARG	CA-C	-5.22	1.48	1.53
9	CX	137	ARG	CA-C	-5.22	1.48	1.53
9	Cm	137	ARG	CA-C	-5.22	1.48	1.53
9	CD	137	ARG	CA-C	-5.21	1.48	1.53
9	CS	137	ARG	CA-C	-5.21	1.48	1.53
9	Ch	137	ARG	CA-C	-5.21	1.48	1.53
9	Cw	137	ARG	CA-C	-5.21	1.48	1.53
9	C1	174	PHE	CA-C	-5.21	1.46	1.52
9	CI	174	PHE	CA-C	-5.21	1.46	1.52
9	CX	174	PHE	CA-C	-5.21	1.46	1.52
9	Cm	174	PHE	CA-C	-5.21	1.46	1.52
9	C1	86	HIS	ND1-CE1	5.20	1.37	1.32
9	CI	86	HIS	ND1-CE1	5.20	1.37	1.32
9	CX	86	HIS	ND1-CE1	5.20	1.37	1.32
9	Cm	86	HIS	ND1-CE1	5.20	1.37	1.32
10	C7	68	GLN	C-N	5.20	1.41	1.33
10	CO	68	GLN	C-N	5.20	1.41	1.33
10	Cd	68	GLN	C-N	5.20	1.41	1.33
10	Cs	68	GLN	C-N	5.20	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	C2	104	ALA	N-CA	-5.18	1.39	1.46
10	CJ	104	ALA	N-CA	-5.18	1.39	1.46
10	CY	104	ALA	N-CA	-5.18	1.39	1.46
10	Cn	104	ALA	N-CA	-5.18	1.39	1.46
9	C6	86	HIS	ND1-CE1	5.17	1.37	1.32
9	CN	86	HIS	ND1-CE1	5.17	1.37	1.32
9	Cc	86	HIS	ND1-CE1	5.17	1.37	1.32
9	Cr	86	HIS	ND1-CE1	5.17	1.37	1.32
8	CC	196	PHE	N-CA	-5.16	1.40	1.46
8	CR	196	PHE	N-CA	-5.16	1.40	1.46
8	Cg	196	PHE	N-CA	-5.16	1.40	1.46
8	Cv	196	PHE	N-CA	-5.16	1.40	1.46
3	AF	26	SER	CA-C	-5.15	1.45	1.52
3	AU	26	SER	CA-C	-5.15	1.45	1.52
3	Aj	26	SER	CA-C	-5.15	1.45	1.52
3	Ay	26	SER	CA-C	-5.15	1.45	1.52
9	CD	86	HIS	ND1-CE1	5.13	1.37	1.32
9	CS	86	HIS	ND1-CE1	5.13	1.37	1.32
9	Ch	86	HIS	ND1-CE1	5.13	1.37	1.32
9	Cw	86	HIS	ND1-CE1	5.13	1.37	1.32
10	C7	104	ALA	N-CA	-5.13	1.39	1.46
10	CO	104	ALA	N-CA	-5.13	1.39	1.46
10	Cd	104	ALA	N-CA	-5.13	1.39	1.46
10	Cs	104	ALA	N-CA	-5.13	1.39	1.46
5	BC	11	VAL	N-CA	-5.12	1.40	1.46
5	BR	11	VAL	N-CA	-5.12	1.40	1.46
5	Bg	11	VAL	N-CA	-5.12	1.40	1.46
5	Bv	11	VAL	N-CA	-5.12	1.40	1.46
9	C6	174	PHE	CA-C	-5.12	1.46	1.52
9	CN	174	PHE	CA-C	-5.12	1.46	1.52
9	Cc	174	PHE	CA-C	-5.12	1.46	1.52
9	Cr	174	PHE	CA-C	-5.12	1.46	1.52
8	C5	196	PHE	N-CA	-5.12	1.40	1.46
8	CM	196	PHE	N-CA	-5.12	1.40	1.46
8	Cb	196	PHE	N-CA	-5.12	1.40	1.46
8	Cq	196	PHE	N-CA	-5.12	1.40	1.46
10	C7	65	HIS	ND1-CE1	5.12	1.37	1.32
10	CO	65	HIS	ND1-CE1	5.12	1.37	1.32
10	Cd	65	HIS	ND1-CE1	5.12	1.37	1.32
10	Cs	65	HIS	ND1-CE1	5.12	1.37	1.32
10	C2	65	HIS	ND1-CE1	5.12	1.37	1.32
10	CJ	65	HIS	ND1-CE1	5.12	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	CY	65	HIS	ND1-CE1	5.12	1.37	1.32
10	Cn	65	HIS	ND1-CE1	5.12	1.37	1.32
3	A3	26	SER	CA-C	-5.11	1.45	1.52
3	AK	26	SER	CA-C	-5.11	1.45	1.52
3	AZ	26	SER	CA-C	-5.11	1.45	1.52
3	Ao	26	SER	CA-C	-5.11	1.45	1.52
9	CD	174	PHE	CA-C	-5.11	1.46	1.52
9	CS	174	PHE	CA-C	-5.11	1.46	1.52
9	Ch	174	PHE	CA-C	-5.11	1.46	1.52
9	Cw	174	PHE	CA-C	-5.11	1.46	1.52
10	CE	65	HIS	ND1-CE1	5.10	1.37	1.32
10	CT	65	HIS	ND1-CE1	5.10	1.37	1.32
10	Ci	65	HIS	ND1-CE1	5.10	1.37	1.32
10	Cx	65	HIS	ND1-CE1	5.10	1.37	1.32
10	CE	104	ALA	N-CA	-5.10	1.39	1.46
10	CT	104	ALA	N-CA	-5.10	1.39	1.46
10	Ci	104	ALA	N-CA	-5.10	1.39	1.46
10	Cx	104	ALA	N-CA	-5.10	1.39	1.46
7	CF	6	CYS	CA-C	-5.09	1.47	1.53
7	CU	6	CYS	CA-C	-5.09	1.47	1.53
7	Cj	6	CYS	CA-C	-5.09	1.47	1.53
7	Cy	6	CYS	CA-C	-5.09	1.47	1.53
8	C0	196	PHE	N-CA	-5.08	1.40	1.46
8	CH	196	PHE	N-CA	-5.08	1.40	1.46
8	CW	196	PHE	N-CA	-5.08	1.40	1.46
8	Cl	196	PHE	N-CA	-5.08	1.40	1.46
4	B7	101	ILE	C-N	-5.08	1.27	1.33
4	BO	101	ILE	C-N	-5.08	1.27	1.33
4	Bd	101	ILE	C-N	-5.08	1.27	1.33
4	Bs	101	ILE	C-N	-5.08	1.27	1.33
4	BE	101	ILE	C-N	-5.08	1.27	1.33
4	BT	101	ILE	C-N	-5.08	1.27	1.33
4	Bi	101	ILE	C-N	-5.08	1.27	1.33
4	Bx	101	ILE	C-N	-5.08	1.27	1.33
7	C3	6	CYS	CA-C	-5.08	1.47	1.53
7	CK	6	CYS	CA-C	-5.08	1.47	1.53
7	CZ	6	CYS	CA-C	-5.08	1.47	1.53
7	Co	6	CYS	CA-C	-5.08	1.47	1.53
7	CA	6	CYS	CA-C	-5.08	1.47	1.53
7	CP	6	CYS	CA-C	-5.08	1.47	1.53
7	Ce	6	CYS	CA-C	-5.08	1.47	1.53
7	Ct	6	CYS	CA-C	-5.08	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B5	11	VAL	N-CA	-5.05	1.40	1.46
5	BM	11	VAL	N-CA	-5.05	1.40	1.46
5	Bb	11	VAL	N-CA	-5.05	1.40	1.46
5	Bq	11	VAL	N-CA	-5.05	1.40	1.46
5	B0	11	VAL	N-CA	-5.04	1.40	1.46
5	BH	11	VAL	N-CA	-5.04	1.40	1.46
5	BW	11	VAL	N-CA	-5.04	1.40	1.46
5	Bl	11	VAL	N-CA	-5.04	1.40	1.46
4	B2	101	ILE	C-N	-5.03	1.27	1.33
4	BJ	101	ILE	C-N	-5.03	1.27	1.33
4	BY	101	ILE	C-N	-5.03	1.27	1.33
4	Bn	101	ILE	C-N	-5.03	1.27	1.33

All (4456) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	CE	57	LEU	O-C-N	-82.07	27.02	123.04
10	CT	57	LEU	O-C-N	-82.07	27.02	123.04
10	Ci	57	LEU	O-C-N	-82.07	27.02	123.04
10	Cx	57	LEU	O-C-N	-82.07	27.02	123.04
10	C7	57	LEU	O-C-N	-82.06	27.03	123.04
10	CO	57	LEU	O-C-N	-82.06	27.03	123.04
10	Cd	57	LEU	O-C-N	-82.06	27.03	123.04
10	Cs	57	LEU	O-C-N	-82.06	27.03	123.04
10	C2	57	LEU	O-C-N	-82.04	27.06	123.04
10	CJ	57	LEU	O-C-N	-82.04	27.06	123.04
10	CY	57	LEU	O-C-N	-82.04	27.06	123.04
10	Cn	57	LEU	O-C-N	-82.04	27.06	123.04
10	C7	197	PHE	CA-CB-CG	-20.76	93.04	113.80
10	CO	197	PHE	CA-CB-CG	-20.76	93.04	113.80
10	Cd	197	PHE	CA-CB-CG	-20.76	93.04	113.80
10	Cs	197	PHE	CA-CB-CG	-20.76	93.04	113.80
10	CE	197	PHE	CA-CB-CG	-20.73	93.07	113.80
10	CT	197	PHE	CA-CB-CG	-20.73	93.07	113.80
10	Ci	197	PHE	CA-CB-CG	-20.73	93.07	113.80
10	Cx	197	PHE	CA-CB-CG	-20.73	93.07	113.80
10	C2	197	PHE	CA-CB-CG	-20.71	93.09	113.80
10	CJ	197	PHE	CA-CB-CG	-20.71	93.09	113.80
10	CY	197	PHE	CA-CB-CG	-20.71	93.09	113.80
10	Cn	197	PHE	CA-CB-CG	-20.71	93.09	113.80
6	BD	27	PHE	CA-CB-CG	-19.08	94.72	113.80
6	BS	27	PHE	CA-CB-CG	-19.08	94.72	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	Bh	27	PHE	CA-CB-CG	-19.08	94.72	113.80
6	Bw	27	PHE	CA-CB-CG	-19.08	94.72	113.80
6	B6	27	PHE	CA-CB-CG	-19.07	94.73	113.80
6	BN	27	PHE	CA-CB-CG	-19.07	94.73	113.80
6	Bc	27	PHE	CA-CB-CG	-19.07	94.73	113.80
6	Br	27	PHE	CA-CB-CG	-19.07	94.73	113.80
6	B1	27	PHE	CA-CB-CG	-19.07	94.73	113.80
6	BI	27	PHE	CA-CB-CG	-19.07	94.73	113.80
6	BX	27	PHE	CA-CB-CG	-19.07	94.73	113.80
6	Bm	27	PHE	CA-CB-CG	-19.07	94.73	113.80
8	CC	173	PHE	CA-CB-CG	-14.57	99.23	113.80
8	CR	173	PHE	CA-CB-CG	-14.57	99.23	113.80
8	Cg	173	PHE	CA-CB-CG	-14.57	99.23	113.80
8	Cv	173	PHE	CA-CB-CG	-14.57	99.23	113.80
8	C5	173	PHE	CA-CB-CG	-14.55	99.25	113.80
8	CM	173	PHE	CA-CB-CG	-14.55	99.25	113.80
8	Cb	173	PHE	CA-CB-CG	-14.55	99.25	113.80
8	Cq	173	PHE	CA-CB-CG	-14.55	99.25	113.80
8	C0	173	PHE	CA-CB-CG	-14.51	99.29	113.80
8	CH	173	PHE	CA-CB-CG	-14.51	99.29	113.80
8	CW	173	PHE	CA-CB-CG	-14.51	99.29	113.80
8	Cl	173	PHE	CA-CB-CG	-14.51	99.29	113.80
10	C2	171	PHE	CA-CB-CG	-13.12	100.68	113.80
10	CE	171	PHE	CA-CB-CG	-13.12	100.68	113.80
10	CJ	171	PHE	CA-CB-CG	-13.12	100.68	113.80
10	CT	171	PHE	CA-CB-CG	-13.12	100.68	113.80
10	CY	171	PHE	CA-CB-CG	-13.12	100.68	113.80
10	Ci	171	PHE	CA-CB-CG	-13.12	100.68	113.80
10	Cn	171	PHE	CA-CB-CG	-13.12	100.68	113.80
10	Cx	171	PHE	CA-CB-CG	-13.12	100.68	113.80
10	C7	171	PHE	CA-CB-CG	-13.09	100.72	113.80
10	CO	171	PHE	CA-CB-CG	-13.09	100.72	113.80
10	Cd	171	PHE	CA-CB-CG	-13.09	100.72	113.80
10	Cs	171	PHE	CA-CB-CG	-13.09	100.72	113.80
8	C5	201	ASP	CB-CA-C	-12.35	91.81	110.95
8	CM	201	ASP	CB-CA-C	-12.35	91.81	110.95
8	Cb	201	ASP	CB-CA-C	-12.35	91.81	110.95
8	Cq	201	ASP	CB-CA-C	-12.35	91.81	110.95
8	CC	201	ASP	CB-CA-C	-12.33	91.84	110.95
8	CR	201	ASP	CB-CA-C	-12.33	91.84	110.95
8	Cg	201	ASP	CB-CA-C	-12.33	91.84	110.95
8	Cv	201	ASP	CB-CA-C	-12.33	91.84	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	C0	201	ASP	CB-CA-C	-12.32	91.85	110.95
8	CH	201	ASP	CB-CA-C	-12.32	91.85	110.95
8	CW	201	ASP	CB-CA-C	-12.32	91.85	110.95
8	Cl	201	ASP	CB-CA-C	-12.32	91.85	110.95
9	CD	185	ASP	CA-CB-CG	-12.17	100.43	112.60
9	CS	185	ASP	CA-CB-CG	-12.17	100.43	112.60
9	Ch	185	ASP	CA-CB-CG	-12.17	100.43	112.60
9	Cw	185	ASP	CA-CB-CG	-12.17	100.43	112.60
9	C1	185	ASP	CA-CB-CG	-12.15	100.45	112.60
9	CI	185	ASP	CA-CB-CG	-12.15	100.45	112.60
9	CX	185	ASP	CA-CB-CG	-12.15	100.45	112.60
9	Cm	185	ASP	CA-CB-CG	-12.15	100.45	112.60
9	C6	185	ASP	CA-CB-CG	-12.13	100.47	112.60
9	CN	185	ASP	CA-CB-CG	-12.13	100.47	112.60
9	Cc	185	ASP	CA-CB-CG	-12.13	100.47	112.60
9	Cr	185	ASP	CA-CB-CG	-12.13	100.47	112.60
8	C0	118	THR	N-CA-C	-11.52	98.70	111.14
8	CH	118	THR	N-CA-C	-11.52	98.70	111.14
8	CW	118	THR	N-CA-C	-11.52	98.70	111.14
8	Cl	118	THR	N-CA-C	-11.52	98.70	111.14
8	CC	118	THR	N-CA-C	-11.51	98.71	111.14
8	CR	118	THR	N-CA-C	-11.51	98.71	111.14
8	Cg	118	THR	N-CA-C	-11.51	98.71	111.14
8	Cv	118	THR	N-CA-C	-11.51	98.71	111.14
8	C5	118	THR	N-CA-C	-11.50	98.72	111.14
8	CM	118	THR	N-CA-C	-11.50	98.72	111.14
8	Cb	118	THR	N-CA-C	-11.50	98.72	111.14
8	Cq	118	THR	N-CA-C	-11.50	98.72	111.14
9	C1	79	ASP	CA-CB-CG	-11.24	101.36	112.60
9	CI	79	ASP	CA-CB-CG	-11.24	101.36	112.60
9	CX	79	ASP	CA-CB-CG	-11.24	101.36	112.60
9	Cm	79	ASP	CA-CB-CG	-11.24	101.36	112.60
9	CD	79	ASP	CA-CB-CG	-11.24	101.36	112.60
9	CS	79	ASP	CA-CB-CG	-11.24	101.36	112.60
9	Ch	79	ASP	CA-CB-CG	-11.24	101.36	112.60
9	Cw	79	ASP	CA-CB-CG	-11.24	101.36	112.60
9	C6	79	ASP	CA-CB-CG	-11.22	101.38	112.60
9	CN	79	ASP	CA-CB-CG	-11.22	101.38	112.60
9	Cc	79	ASP	CA-CB-CG	-11.22	101.38	112.60
9	Cr	79	ASP	CA-CB-CG	-11.22	101.38	112.60
10	C2	138	PHE	CA-CB-CG	-11.11	102.69	113.80
10	CJ	138	PHE	CA-CB-CG	-11.11	102.69	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	CY	138	PHE	CA-CB-CG	-11.11	102.69	113.80
10	Cn	138	PHE	CA-CB-CG	-11.11	102.69	113.80
10	C7	138	PHE	CA-CB-CG	-11.10	102.70	113.80
10	CO	138	PHE	CA-CB-CG	-11.10	102.70	113.80
10	Cd	138	PHE	CA-CB-CG	-11.10	102.70	113.80
10	Cs	138	PHE	CA-CB-CG	-11.10	102.70	113.80
10	CE	138	PHE	CA-CB-CG	-11.09	102.71	113.80
10	CT	138	PHE	CA-CB-CG	-11.09	102.71	113.80
10	Ci	138	PHE	CA-CB-CG	-11.09	102.71	113.80
10	Cx	138	PHE	CA-CB-CG	-11.09	102.71	113.80
8	C0	11	GLN	CA-C-N	10.78	142.12	121.54
8	C0	11	GLN	C-N-CA	10.78	142.12	121.54
8	CH	11	GLN	CA-C-N	10.78	142.12	121.54
8	CH	11	GLN	C-N-CA	10.78	142.12	121.54
8	CW	11	GLN	CA-C-N	10.78	142.12	121.54
8	CW	11	GLN	C-N-CA	10.78	142.12	121.54
8	Cl	11	GLN	CA-C-N	10.78	142.12	121.54
8	Cl	11	GLN	C-N-CA	10.78	142.12	121.54
8	C5	11	GLN	CA-C-N	10.77	142.11	121.54
8	C5	11	GLN	C-N-CA	10.77	142.11	121.54
8	CM	11	GLN	CA-C-N	10.77	142.11	121.54
8	CM	11	GLN	C-N-CA	10.77	142.11	121.54
8	Cb	11	GLN	CA-C-N	10.77	142.11	121.54
8	Cb	11	GLN	C-N-CA	10.77	142.11	121.54
8	Cq	11	GLN	CA-C-N	10.77	142.11	121.54
8	Cq	11	GLN	C-N-CA	10.77	142.11	121.54
8	CC	11	GLN	CA-C-N	10.77	142.11	121.54
8	CC	11	GLN	C-N-CA	10.77	142.11	121.54
8	CR	11	GLN	CA-C-N	10.77	142.11	121.54
8	CR	11	GLN	C-N-CA	10.77	142.11	121.54
8	Cg	11	GLN	CA-C-N	10.77	142.11	121.54
8	Cg	11	GLN	C-N-CA	10.77	142.11	121.54
8	Cv	11	GLN	CA-C-N	10.77	142.11	121.54
8	Cv	11	GLN	C-N-CA	10.77	142.11	121.54
8	CC	202	ASP	CA-CB-CG	-10.62	101.98	112.60
8	CR	202	ASP	CA-CB-CG	-10.62	101.98	112.60
8	Cg	202	ASP	CA-CB-CG	-10.62	101.98	112.60
8	Cv	202	ASP	CA-CB-CG	-10.62	101.98	112.60
8	C0	202	ASP	CA-CB-CG	-10.60	102.00	112.60
8	CH	202	ASP	CA-CB-CG	-10.60	102.00	112.60
8	CW	202	ASP	CA-CB-CG	-10.60	102.00	112.60
8	Cl	202	ASP	CA-CB-CG	-10.60	102.00	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	C5	202	ASP	CA-CB-CG	-10.59	102.01	112.60
8	CM	202	ASP	CA-CB-CG	-10.59	102.01	112.60
8	Cb	202	ASP	CA-CB-CG	-10.59	102.01	112.60
8	Cq	202	ASP	CA-CB-CG	-10.59	102.01	112.60
10	C2	57	LEU	CA-C-N	-10.49	101.51	121.54
10	C2	57	LEU	C-N-CA	-10.49	101.51	121.54
10	CJ	57	LEU	CA-C-N	-10.49	101.51	121.54
10	CJ	57	LEU	C-N-CA	-10.49	101.51	121.54
10	CY	57	LEU	CA-C-N	-10.49	101.51	121.54
10	CY	57	LEU	C-N-CA	-10.49	101.51	121.54
10	Cn	57	LEU	CA-C-N	-10.49	101.51	121.54
10	Cn	57	LEU	C-N-CA	-10.49	101.51	121.54
10	C7	57	LEU	CA-C-N	-10.49	101.51	121.54
10	C7	57	LEU	C-N-CA	-10.49	101.51	121.54
10	CO	57	LEU	CA-C-N	-10.49	101.51	121.54
10	CO	57	LEU	C-N-CA	-10.49	101.51	121.54
10	Cd	57	LEU	CA-C-N	-10.49	101.51	121.54
10	Cd	57	LEU	C-N-CA	-10.49	101.51	121.54
10	Cs	57	LEU	CA-C-N	-10.49	101.51	121.54
10	Cs	57	LEU	C-N-CA	-10.49	101.51	121.54
3	A7	5	ASP	CA-C-N	-10.48	103.88	123.27
3	A7	5	ASP	C-N-CA	-10.48	103.88	123.27
3	AO	5	ASP	CA-C-N	-10.48	103.88	123.27
3	AO	5	ASP	C-N-CA	-10.48	103.88	123.27
3	Ad	5	ASP	CA-C-N	-10.48	103.88	123.27
3	Ad	5	ASP	C-N-CA	-10.48	103.88	123.27
3	As	5	ASP	CA-C-N	-10.48	103.88	123.27
3	As	5	ASP	C-N-CA	-10.48	103.88	123.27
3	A2	5	ASP	CA-C-N	-10.47	103.90	123.27
3	A2	5	ASP	C-N-CA	-10.47	103.90	123.27
3	AJ	5	ASP	CA-C-N	-10.47	103.90	123.27
3	AJ	5	ASP	C-N-CA	-10.47	103.90	123.27
3	AY	5	ASP	CA-C-N	-10.47	103.90	123.27
3	AY	5	ASP	C-N-CA	-10.47	103.90	123.27
3	An	5	ASP	CA-C-N	-10.47	103.90	123.27
3	An	5	ASP	C-N-CA	-10.47	103.90	123.27
10	CE	57	LEU	CA-C-N	-10.47	101.54	121.54
10	CE	57	LEU	C-N-CA	-10.47	101.54	121.54
10	CT	57	LEU	CA-C-N	-10.47	101.54	121.54
10	CT	57	LEU	C-N-CA	-10.47	101.54	121.54
10	Ci	57	LEU	CA-C-N	-10.47	101.54	121.54
10	Ci	57	LEU	C-N-CA	-10.47	101.54	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	Cx	57	LEU	CA-C-N	-10.47	101.54	121.54
10	Cx	57	LEU	C-N-CA	-10.47	101.54	121.54
3	AE	5	ASP	CA-C-N	-10.46	103.92	123.27
3	AE	5	ASP	C-N-CA	-10.46	103.92	123.27
3	AT	5	ASP	CA-C-N	-10.46	103.92	123.27
3	AT	5	ASP	C-N-CA	-10.46	103.92	123.27
3	Ai	5	ASP	CA-C-N	-10.46	103.92	123.27
3	Ai	5	ASP	C-N-CA	-10.46	103.92	123.27
3	Ax	5	ASP	CA-C-N	-10.46	103.92	123.27
3	Ax	5	ASP	C-N-CA	-10.46	103.92	123.27
8	C0	10	PHE	CA-CB-CG	-10.42	103.38	113.80
8	CH	10	PHE	CA-CB-CG	-10.42	103.38	113.80
8	CW	10	PHE	CA-CB-CG	-10.42	103.38	113.80
8	Cl	10	PHE	CA-CB-CG	-10.42	103.38	113.80
8	C5	10	PHE	CA-CB-CG	-10.41	103.39	113.80
8	CM	10	PHE	CA-CB-CG	-10.41	103.39	113.80
8	Cb	10	PHE	CA-CB-CG	-10.41	103.39	113.80
8	Cq	10	PHE	CA-CB-CG	-10.41	103.39	113.80
8	CC	10	PHE	CA-CB-CG	-10.39	103.41	113.80
8	CR	10	PHE	CA-CB-CG	-10.39	103.41	113.80
8	Cg	10	PHE	CA-CB-CG	-10.39	103.41	113.80
8	Cv	10	PHE	CA-CB-CG	-10.39	103.41	113.80
4	BA	99	ARG	CA-C-N	-10.33	107.95	122.93
4	BA	99	ARG	C-N-CA	-10.33	107.95	122.93
4	BP	99	ARG	CA-C-N	-10.33	107.95	122.93
4	BP	99	ARG	C-N-CA	-10.33	107.95	122.93
4	Be	99	ARG	CA-C-N	-10.33	107.95	122.93
4	Be	99	ARG	C-N-CA	-10.33	107.95	122.93
4	Bt	99	ARG	CA-C-N	-10.33	107.95	122.93
4	Bt	99	ARG	C-N-CA	-10.33	107.95	122.93
4	B3	99	ARG	CA-C-N	-10.32	107.96	122.93
4	B3	99	ARG	C-N-CA	-10.32	107.96	122.93
4	BK	99	ARG	CA-C-N	-10.32	107.96	122.93
4	BK	99	ARG	C-N-CA	-10.32	107.96	122.93
4	BZ	99	ARG	CA-C-N	-10.32	107.96	122.93
4	BZ	99	ARG	C-N-CA	-10.32	107.96	122.93
4	Bo	99	ARG	CA-C-N	-10.32	107.96	122.93
4	Bo	99	ARG	C-N-CA	-10.32	107.96	122.93
4	BF	99	ARG	CA-C-N	-10.31	107.98	122.93
4	BF	99	ARG	C-N-CA	-10.31	107.98	122.93
4	BU	99	ARG	CA-C-N	-10.31	107.98	122.93
4	BU	99	ARG	C-N-CA	-10.31	107.98	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Bj	99	ARG	CA-C-N	-10.31	107.98	122.93
4	Bj	99	ARG	C-N-CA	-10.31	107.98	122.93
4	By	99	ARG	CA-C-N	-10.31	107.98	122.93
4	By	99	ARG	C-N-CA	-10.31	107.98	122.93
10	C2	82	VAL	N-CA-C	-10.17	98.72	110.21
10	CJ	82	VAL	N-CA-C	-10.17	98.72	110.21
10	CY	82	VAL	N-CA-C	-10.17	98.72	110.21
10	Cn	82	VAL	N-CA-C	-10.17	98.72	110.21
10	C7	82	VAL	N-CA-C	-10.16	98.73	110.21
10	CO	82	VAL	N-CA-C	-10.16	98.73	110.21
10	Cd	82	VAL	N-CA-C	-10.16	98.73	110.21
10	Cs	82	VAL	N-CA-C	-10.16	98.73	110.21
10	CE	82	VAL	N-CA-C	-10.15	98.73	110.21
10	CT	82	VAL	N-CA-C	-10.15	98.73	110.21
10	Ci	82	VAL	N-CA-C	-10.15	98.73	110.21
10	Cx	82	VAL	N-CA-C	-10.15	98.73	110.21
6	BD	149	ASP	CB-CA-C	-9.54	94.96	110.79
6	BS	149	ASP	CB-CA-C	-9.54	94.96	110.79
6	Bh	149	ASP	CB-CA-C	-9.54	94.96	110.79
6	Bw	149	ASP	CB-CA-C	-9.54	94.96	110.79
6	B1	149	ASP	CB-CA-C	-9.54	94.96	110.79
6	BI	149	ASP	CB-CA-C	-9.54	94.96	110.79
6	BX	149	ASP	CB-CA-C	-9.54	94.96	110.79
6	Bm	149	ASP	CB-CA-C	-9.54	94.96	110.79
6	B6	149	ASP	CB-CA-C	-9.53	94.97	110.79
6	BN	149	ASP	CB-CA-C	-9.53	94.97	110.79
6	Bc	149	ASP	CB-CA-C	-9.53	94.97	110.79
6	Br	149	ASP	CB-CA-C	-9.53	94.97	110.79
4	B2	101	ILE	CB-CA-C	-9.43	94.20	111.36
4	BJ	101	ILE	CB-CA-C	-9.43	94.20	111.36
4	BY	101	ILE	CB-CA-C	-9.43	94.20	111.36
4	Bn	101	ILE	CB-CA-C	-9.43	94.20	111.36
3	A7	27	PHE	CB-CA-C	-9.43	95.70	109.84
3	AO	27	PHE	CB-CA-C	-9.43	95.70	109.84
3	Ad	27	PHE	CB-CA-C	-9.43	95.70	109.84
3	As	27	PHE	CB-CA-C	-9.43	95.70	109.84
4	B7	101	ILE	CB-CA-C	-9.43	94.20	111.36
4	BO	101	ILE	CB-CA-C	-9.43	94.20	111.36
4	Bd	101	ILE	CB-CA-C	-9.43	94.20	111.36
4	Bs	101	ILE	CB-CA-C	-9.43	94.20	111.36
4	BE	101	ILE	CB-CA-C	-9.42	94.21	111.36
4	BT	101	ILE	CB-CA-C	-9.42	94.21	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Bi	101	ILE	CB-CA-C	-9.42	94.21	111.36
4	Bx	101	ILE	CB-CA-C	-9.42	94.21	111.36
3	AE	27	PHE	CB-CA-C	-9.40	95.73	109.84
3	AT	27	PHE	CB-CA-C	-9.40	95.73	109.84
3	Ai	27	PHE	CB-CA-C	-9.40	95.73	109.84
3	Ax	27	PHE	CB-CA-C	-9.40	95.73	109.84
3	A2	27	PHE	CB-CA-C	-9.39	95.76	109.84
3	AJ	27	PHE	CB-CA-C	-9.39	95.76	109.84
3	AY	27	PHE	CB-CA-C	-9.39	95.76	109.84
3	An	27	PHE	CB-CA-C	-9.39	95.76	109.84
8	C5	75	GLU	CB-CG-CD	-9.38	96.66	112.60
8	CM	75	GLU	CB-CG-CD	-9.38	96.66	112.60
8	Cb	75	GLU	CB-CG-CD	-9.38	96.66	112.60
8	Cq	75	GLU	CB-CG-CD	-9.38	96.66	112.60
8	C0	75	GLU	CB-CG-CD	-9.36	96.69	112.60
8	CH	75	GLU	CB-CG-CD	-9.36	96.69	112.60
8	CW	75	GLU	CB-CG-CD	-9.36	96.69	112.60
8	Cl	75	GLU	CB-CG-CD	-9.36	96.69	112.60
5	CB	107	LYS	CA-C-O	9.34	128.03	120.19
5	CQ	107	LYS	CA-C-O	9.34	128.03	120.19
5	Cf	107	LYS	CA-C-O	9.34	128.03	120.19
5	Cu	107	LYS	CA-C-O	9.34	128.03	120.19
5	CG	107	LYS	CA-C-O	9.34	128.03	120.19
5	CV	107	LYS	CA-C-O	9.34	128.03	120.19
5	Ck	107	LYS	CA-C-O	9.34	128.03	120.19
5	Cz	107	LYS	CA-C-O	9.34	128.03	120.19
8	CC	75	GLU	CB-CG-CD	-9.33	96.73	112.60
8	CR	75	GLU	CB-CG-CD	-9.33	96.73	112.60
8	Cg	75	GLU	CB-CG-CD	-9.33	96.73	112.60
8	Cv	75	GLU	CB-CG-CD	-9.33	96.73	112.60
5	C4	107	LYS	CA-C-O	9.32	128.02	120.19
5	CL	107	LYS	CA-C-O	9.32	128.02	120.19
5	Ca	107	LYS	CA-C-O	9.32	128.02	120.19
5	Cp	107	LYS	CA-C-O	9.32	128.02	120.19
8	C0	138	LYS	CB-CA-C	-9.07	103.06	114.40
8	CH	138	LYS	CB-CA-C	-9.07	103.06	114.40
8	CW	138	LYS	CB-CA-C	-9.07	103.06	114.40
8	Cl	138	LYS	CB-CA-C	-9.07	103.06	114.40
8	C5	138	LYS	CB-CA-C	-9.06	103.07	114.40
8	CM	138	LYS	CB-CA-C	-9.06	103.07	114.40
8	Cb	138	LYS	CB-CA-C	-9.06	103.07	114.40
8	Cq	138	LYS	CB-CA-C	-9.06	103.07	114.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	CC	138	LYS	CB-CA-C	-9.03	103.12	114.40
8	CR	138	LYS	CB-CA-C	-9.03	103.12	114.40
8	Cg	138	LYS	CB-CA-C	-9.03	103.12	114.40
8	Cv	138	LYS	CB-CA-C	-9.03	103.12	114.40
10	C2	121	ARG	CA-C-N	-9.02	108.56	119.84
10	C2	121	ARG	C-N-CA	-9.02	108.56	119.84
10	CJ	121	ARG	CA-C-N	-9.02	108.56	119.84
10	CJ	121	ARG	C-N-CA	-9.02	108.56	119.84
10	CY	121	ARG	CA-C-N	-9.02	108.56	119.84
10	CY	121	ARG	C-N-CA	-9.02	108.56	119.84
10	Cn	121	ARG	CA-C-N	-9.02	108.56	119.84
10	Cn	121	ARG	C-N-CA	-9.02	108.56	119.84
10	C7	121	ARG	CA-C-N	-9.01	108.57	119.84
10	C7	121	ARG	C-N-CA	-9.01	108.57	119.84
10	CO	121	ARG	CA-C-N	-9.01	108.57	119.84
10	CO	121	ARG	C-N-CA	-9.01	108.57	119.84
10	Cd	121	ARG	CA-C-N	-9.01	108.57	119.84
10	Cd	121	ARG	C-N-CA	-9.01	108.57	119.84
10	Cs	121	ARG	CA-C-N	-9.01	108.57	119.84
10	Cs	121	ARG	C-N-CA	-9.01	108.57	119.84
10	CE	121	ARG	CA-C-N	-9.00	108.59	119.84
10	CE	121	ARG	C-N-CA	-9.00	108.59	119.84
10	CT	121	ARG	CA-C-N	-9.00	108.59	119.84
10	CT	121	ARG	C-N-CA	-9.00	108.59	119.84
10	Ci	121	ARG	CA-C-N	-9.00	108.59	119.84
10	Ci	121	ARG	C-N-CA	-9.00	108.59	119.84
10	Cx	121	ARG	CA-C-N	-9.00	108.59	119.84
10	Cx	121	ARG	C-N-CA	-9.00	108.59	119.84
3	AE	27	PHE	CA-CB-CG	-8.96	104.84	113.80
3	AT	27	PHE	CA-CB-CG	-8.96	104.84	113.80
3	Ai	27	PHE	CA-CB-CG	-8.96	104.84	113.80
3	Ax	27	PHE	CA-CB-CG	-8.96	104.84	113.80
3	A7	27	PHE	CA-CB-CG	-8.95	104.85	113.80
3	AO	27	PHE	CA-CB-CG	-8.95	104.85	113.80
3	Ad	27	PHE	CA-CB-CG	-8.95	104.85	113.80
3	As	27	PHE	CA-CB-CG	-8.95	104.85	113.80
3	A2	27	PHE	CA-CB-CG	-8.95	104.85	113.80
3	AJ	27	PHE	CA-CB-CG	-8.95	104.85	113.80
3	AY	27	PHE	CA-CB-CG	-8.95	104.85	113.80
3	An	27	PHE	CA-CB-CG	-8.95	104.85	113.80
10	CE	195	TYR	CA-CB-CG	-8.86	97.95	113.90
10	CT	195	TYR	CA-CB-CG	-8.86	97.95	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	Ci	195	TYR	CA-CB-CG	-8.86	97.95	113.90
10	Cx	195	TYR	CA-CB-CG	-8.86	97.95	113.90
10	C7	195	TYR	CA-CB-CG	-8.86	97.95	113.90
10	CO	195	TYR	CA-CB-CG	-8.86	97.95	113.90
10	Cd	195	TYR	CA-CB-CG	-8.86	97.95	113.90
10	Cs	195	TYR	CA-CB-CG	-8.86	97.95	113.90
10	C2	195	TYR	CA-CB-CG	-8.86	97.96	113.90
10	CJ	195	TYR	CA-CB-CG	-8.86	97.96	113.90
10	CY	195	TYR	CA-CB-CG	-8.86	97.96	113.90
10	Cn	195	TYR	CA-CB-CG	-8.86	97.96	113.90
4	B3	81	GLN	CA-C-N	8.74	128.38	118.85
4	B3	81	GLN	C-N-CA	8.74	128.38	118.85
4	BK	81	GLN	CA-C-N	8.74	128.38	118.85
4	BK	81	GLN	C-N-CA	8.74	128.38	118.85
4	BZ	81	GLN	CA-C-N	8.74	128.38	118.85
4	BZ	81	GLN	C-N-CA	8.74	128.38	118.85
4	Bo	81	GLN	CA-C-N	8.74	128.38	118.85
4	Bo	81	GLN	C-N-CA	8.74	128.38	118.85
4	BF	81	GLN	CA-C-N	8.73	128.37	118.85
4	BF	81	GLN	C-N-CA	8.73	128.37	118.85
4	BU	81	GLN	CA-C-N	8.73	128.37	118.85
4	BU	81	GLN	C-N-CA	8.73	128.37	118.85
4	Bj	81	GLN	CA-C-N	8.73	128.37	118.85
4	Bj	81	GLN	C-N-CA	8.73	128.37	118.85
4	By	81	GLN	CA-C-N	8.73	128.37	118.85
4	By	81	GLN	C-N-CA	8.73	128.37	118.85
6	BD	27	PHE	CA-C-N	-8.70	108.79	120.63
6	BD	27	PHE	C-N-CA	-8.70	108.79	120.63
6	BS	27	PHE	CA-C-N	-8.70	108.79	120.63
6	BS	27	PHE	C-N-CA	-8.70	108.79	120.63
6	Bh	27	PHE	CA-C-N	-8.70	108.79	120.63
6	Bh	27	PHE	C-N-CA	-8.70	108.79	120.63
6	Bw	27	PHE	CA-C-N	-8.70	108.79	120.63
6	Bw	27	PHE	C-N-CA	-8.70	108.79	120.63
6	B6	27	PHE	CA-C-N	-8.69	108.81	120.63
6	B6	27	PHE	C-N-CA	-8.69	108.81	120.63
6	BN	27	PHE	CA-C-N	-8.69	108.81	120.63
6	BN	27	PHE	C-N-CA	-8.69	108.81	120.63
6	Bc	27	PHE	CA-C-N	-8.69	108.81	120.63
6	Bc	27	PHE	C-N-CA	-8.69	108.81	120.63
6	Br	27	PHE	CA-C-N	-8.69	108.81	120.63
6	Br	27	PHE	C-N-CA	-8.69	108.81	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	B1	27	PHE	CA-C-N	-8.69	108.81	120.63
6	B1	27	PHE	C-N-CA	-8.69	108.81	120.63
6	BI	27	PHE	CA-C-N	-8.69	108.81	120.63
6	BI	27	PHE	C-N-CA	-8.69	108.81	120.63
6	BX	27	PHE	CA-C-N	-8.69	108.81	120.63
6	BX	27	PHE	C-N-CA	-8.69	108.81	120.63
6	Bm	27	PHE	CA-C-N	-8.69	108.81	120.63
6	Bm	27	PHE	C-N-CA	-8.69	108.81	120.63
8	C5	143	ASN	CB-CA-C	-8.63	103.61	114.40
8	CM	143	ASN	CB-CA-C	-8.63	103.61	114.40
8	Cb	143	ASN	CB-CA-C	-8.63	103.61	114.40
8	Cq	143	ASN	CB-CA-C	-8.63	103.61	114.40
8	C0	143	ASN	CB-CA-C	-8.62	103.63	114.40
8	CH	143	ASN	CB-CA-C	-8.62	103.63	114.40
8	CW	143	ASN	CB-CA-C	-8.62	103.63	114.40
8	Cl	143	ASN	CB-CA-C	-8.62	103.63	114.40
8	CC	143	ASN	CB-CA-C	-8.61	103.63	114.40
8	CR	143	ASN	CB-CA-C	-8.61	103.63	114.40
8	Cg	143	ASN	CB-CA-C	-8.61	103.63	114.40
8	Cv	143	ASN	CB-CA-C	-8.61	103.63	114.40
9	C6	198	ASN	CA-C-N	8.57	132.47	120.29
9	C6	198	ASN	C-N-CA	8.57	132.47	120.29
9	CN	198	ASN	CA-C-N	8.57	132.47	120.29
9	CN	198	ASN	C-N-CA	8.57	132.47	120.29
9	Cc	198	ASN	CA-C-N	8.57	132.47	120.29
9	Cc	198	ASN	C-N-CA	8.57	132.47	120.29
9	Cr	198	ASN	CA-C-N	8.57	132.47	120.29
9	Cr	198	ASN	C-N-CA	8.57	132.47	120.29
5	CB	105	ASN	CA-CB-CG	-8.57	104.03	112.60
5	CQ	105	ASN	CA-CB-CG	-8.57	104.03	112.60
5	Cf	105	ASN	CA-CB-CG	-8.57	104.03	112.60
5	Cu	105	ASN	CA-CB-CG	-8.57	104.03	112.60
9	C1	198	ASN	CA-C-N	8.57	132.46	120.29
9	C1	198	ASN	C-N-CA	8.57	132.46	120.29
9	CI	198	ASN	CA-C-N	8.57	132.46	120.29
9	CI	198	ASN	C-N-CA	8.57	132.46	120.29
9	CX	198	ASN	CA-C-N	8.57	132.46	120.29
9	CX	198	ASN	C-N-CA	8.57	132.46	120.29
9	Cm	198	ASN	CA-C-N	8.57	132.46	120.29
9	Cm	198	ASN	C-N-CA	8.57	132.46	120.29
5	CG	105	ASN	CA-CB-CG	-8.55	104.05	112.60
5	CV	105	ASN	CA-CB-CG	-8.55	104.05	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Ck	105	ASN	CA-CB-CG	-8.55	104.05	112.60
5	Cz	105	ASN	CA-CB-CG	-8.55	104.05	112.60
5	C4	105	ASN	CA-CB-CG	-8.54	104.06	112.60
5	CL	105	ASN	CA-CB-CG	-8.54	104.06	112.60
5	Ca	105	ASN	CA-CB-CG	-8.54	104.06	112.60
5	Cp	105	ASN	CA-CB-CG	-8.54	104.06	112.60
9	CD	198	ASN	CA-C-N	8.54	132.42	120.29
9	CD	198	ASN	C-N-CA	8.54	132.42	120.29
9	CS	198	ASN	CA-C-N	8.54	132.42	120.29
9	CS	198	ASN	C-N-CA	8.54	132.42	120.29
9	Ch	198	ASN	CA-C-N	8.54	132.42	120.29
9	Ch	198	ASN	C-N-CA	8.54	132.42	120.29
9	Cw	198	ASN	CA-C-N	8.54	132.42	120.29
9	Cw	198	ASN	C-N-CA	8.54	132.42	120.29
10	CE	90	ARG	N-CA-C	-8.53	100.87	111.11
10	CT	90	ARG	N-CA-C	-8.53	100.87	111.11
10	Ci	90	ARG	N-CA-C	-8.53	100.87	111.11
10	Cx	90	ARG	N-CA-C	-8.53	100.87	111.11
10	C7	90	ARG	N-CA-C	-8.52	100.89	111.11
10	CO	90	ARG	N-CA-C	-8.52	100.89	111.11
10	Cd	90	ARG	N-CA-C	-8.52	100.89	111.11
10	Cs	90	ARG	N-CA-C	-8.52	100.89	111.11
8	CC	85	GLY	N-CA-C	-8.51	103.19	114.25
8	CR	85	GLY	N-CA-C	-8.51	103.19	114.25
8	Cg	85	GLY	N-CA-C	-8.51	103.19	114.25
8	Cv	85	GLY	N-CA-C	-8.51	103.19	114.25
10	C2	90	ARG	N-CA-C	-8.51	100.90	111.11
10	CJ	90	ARG	N-CA-C	-8.51	100.90	111.11
10	CY	90	ARG	N-CA-C	-8.51	100.90	111.11
10	Cn	90	ARG	N-CA-C	-8.51	100.90	111.11
8	C5	85	GLY	N-CA-C	-8.49	103.22	114.25
8	CM	85	GLY	N-CA-C	-8.49	103.22	114.25
8	Cb	85	GLY	N-CA-C	-8.49	103.22	114.25
8	Cq	85	GLY	N-CA-C	-8.49	103.22	114.25
8	C0	85	GLY	N-CA-C	-8.48	103.23	114.25
8	CH	85	GLY	N-CA-C	-8.48	103.23	114.25
8	CW	85	GLY	N-CA-C	-8.48	103.23	114.25
8	Cl	85	GLY	N-CA-C	-8.48	103.23	114.25
8	CC	199	GLY	N-CA-C	-8.47	104.61	114.69
8	CR	199	GLY	N-CA-C	-8.47	104.61	114.69
8	Cg	199	GLY	N-CA-C	-8.47	104.61	114.69
8	Cv	199	GLY	N-CA-C	-8.47	104.61	114.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	C0	199	GLY	N-CA-C	-8.46	104.62	114.69
8	CH	199	GLY	N-CA-C	-8.46	104.62	114.69
8	CW	199	GLY	N-CA-C	-8.46	104.62	114.69
8	Cl	199	GLY	N-CA-C	-8.46	104.62	114.69
10	C7	59	ASP	CA-C-O	8.45	125.58	119.32
10	CO	59	ASP	CA-C-O	8.45	125.58	119.32
10	Cd	59	ASP	CA-C-O	8.45	125.58	119.32
10	Cs	59	ASP	CA-C-O	8.45	125.58	119.32
10	C2	59	ASP	CA-C-O	8.44	125.57	119.32
10	CJ	59	ASP	CA-C-O	8.44	125.57	119.32
10	CY	59	ASP	CA-C-O	8.44	125.57	119.32
10	Cn	59	ASP	CA-C-O	8.44	125.57	119.32
8	C5	199	GLY	N-CA-C	-8.44	104.64	114.69
8	CM	199	GLY	N-CA-C	-8.44	104.64	114.69
8	Cb	199	GLY	N-CA-C	-8.44	104.64	114.69
8	Cq	199	GLY	N-CA-C	-8.44	104.64	114.69
8	CC	146	TRP	N-CA-C	-8.44	94.26	108.26
10	CE	59	ASP	CA-C-O	8.44	125.56	119.32
8	CR	146	TRP	N-CA-C	-8.44	94.26	108.26
10	CT	59	ASP	CA-C-O	8.44	125.56	119.32
8	Cg	146	TRP	N-CA-C	-8.44	94.26	108.26
10	Ci	59	ASP	CA-C-O	8.44	125.56	119.32
8	Cv	146	TRP	N-CA-C	-8.44	94.26	108.26
10	Cx	59	ASP	CA-C-O	8.44	125.56	119.32
8	C0	146	TRP	N-CA-C	-8.43	94.26	108.26
8	CH	146	TRP	N-CA-C	-8.43	94.26	108.26
8	CW	146	TRP	N-CA-C	-8.43	94.26	108.26
8	Cl	146	TRP	N-CA-C	-8.43	94.26	108.26
8	C5	146	TRP	N-CA-C	-8.42	94.29	108.26
8	CM	146	TRP	N-CA-C	-8.42	94.29	108.26
8	Cb	146	TRP	N-CA-C	-8.42	94.29	108.26
8	Cq	146	TRP	N-CA-C	-8.42	94.29	108.26
9	C1	42	ASP	N-CA-CB	8.41	121.25	110.23
9	CI	42	ASP	N-CA-CB	8.41	121.25	110.23
9	CX	42	ASP	N-CA-CB	8.41	121.25	110.23
9	Cm	42	ASP	N-CA-CB	8.41	121.25	110.23
8	C0	122	ASP	N-CA-C	-8.41	102.12	111.28
8	CH	122	ASP	N-CA-C	-8.41	102.12	111.28
8	CW	122	ASP	N-CA-C	-8.41	102.12	111.28
8	Cl	122	ASP	N-CA-C	-8.41	102.12	111.28
9	C6	42	ASP	N-CA-CB	8.40	121.24	110.23
8	CC	122	ASP	N-CA-C	-8.40	102.12	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	CD	42	ASP	N-CA-CB	8.40	121.24	110.23
9	CN	42	ASP	N-CA-CB	8.40	121.24	110.23
8	CR	122	ASP	N-CA-C	-8.40	102.12	111.28
9	CS	42	ASP	N-CA-CB	8.40	121.24	110.23
9	Cc	42	ASP	N-CA-CB	8.40	121.24	110.23
8	Cg	122	ASP	N-CA-C	-8.40	102.12	111.28
9	Ch	42	ASP	N-CA-CB	8.40	121.24	110.23
9	Cr	42	ASP	N-CA-CB	8.40	121.24	110.23
8	Cv	122	ASP	N-CA-C	-8.40	102.12	111.28
9	Cw	42	ASP	N-CA-CB	8.40	121.24	110.23
8	CC	90	ARG	CA-C-N	8.39	131.53	120.28
8	CC	90	ARG	C-N-CA	8.39	131.53	120.28
8	CR	90	ARG	CA-C-N	8.39	131.53	120.28
8	CR	90	ARG	C-N-CA	8.39	131.53	120.28
8	Cg	90	ARG	CA-C-N	8.39	131.53	120.28
8	Cg	90	ARG	C-N-CA	8.39	131.53	120.28
8	Cv	90	ARG	CA-C-N	8.39	131.53	120.28
8	Cv	90	ARG	C-N-CA	8.39	131.53	120.28
8	C5	122	ASP	N-CA-C	-8.38	102.15	111.28
8	CM	122	ASP	N-CA-C	-8.38	102.15	111.28
8	Cb	122	ASP	N-CA-C	-8.38	102.15	111.28
8	Cq	122	ASP	N-CA-C	-8.38	102.15	111.28
10	CE	195	TYR	CB-CA-C	-8.34	97.72	110.90
10	CT	195	TYR	CB-CA-C	-8.34	97.72	110.90
10	Ci	195	TYR	CB-CA-C	-8.34	97.72	110.90
10	Cx	195	TYR	CB-CA-C	-8.34	97.72	110.90
8	C5	90	ARG	CA-C-N	8.34	131.45	120.28
8	C5	90	ARG	C-N-CA	8.34	131.45	120.28
8	CM	90	ARG	CA-C-N	8.34	131.45	120.28
8	CM	90	ARG	C-N-CA	8.34	131.45	120.28
8	Cb	90	ARG	CA-C-N	8.34	131.45	120.28
8	Cb	90	ARG	C-N-CA	8.34	131.45	120.28
8	Cq	90	ARG	CA-C-N	8.34	131.45	120.28
8	Cq	90	ARG	C-N-CA	8.34	131.45	120.28
10	C7	195	TYR	CB-CA-C	-8.33	97.73	110.90
10	CO	195	TYR	CB-CA-C	-8.33	97.73	110.90
10	Cd	195	TYR	CB-CA-C	-8.33	97.73	110.90
10	Cs	195	TYR	CB-CA-C	-8.33	97.73	110.90
10	C2	195	TYR	CB-CA-C	-8.33	97.73	110.90
10	CJ	195	TYR	CB-CA-C	-8.33	97.73	110.90
10	CY	195	TYR	CB-CA-C	-8.33	97.73	110.90
10	Cn	195	TYR	CB-CA-C	-8.33	97.73	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	C0	90	ARG	CA-C-N	8.33	131.44	120.28
8	C0	90	ARG	C-N-CA	8.33	131.44	120.28
8	CH	90	ARG	CA-C-N	8.33	131.44	120.28
8	CH	90	ARG	C-N-CA	8.33	131.44	120.28
8	CW	90	ARG	CA-C-N	8.33	131.44	120.28
8	CW	90	ARG	C-N-CA	8.33	131.44	120.28
8	Cl	90	ARG	CA-C-N	8.33	131.44	120.28
8	Cl	90	ARG	C-N-CA	8.33	131.44	120.28
10	C2	80	LEU	CA-C-N	8.30	131.73	120.44
10	C2	80	LEU	C-N-CA	8.30	131.73	120.44
10	CJ	80	LEU	CA-C-N	8.30	131.73	120.44
10	CJ	80	LEU	C-N-CA	8.30	131.73	120.44
10	CY	80	LEU	CA-C-N	8.30	131.73	120.44
10	CY	80	LEU	C-N-CA	8.30	131.73	120.44
10	Cn	80	LEU	CA-C-N	8.30	131.73	120.44
10	Cn	80	LEU	C-N-CA	8.30	131.73	120.44
10	CE	80	LEU	CA-C-N	8.28	131.71	120.44
10	CE	80	LEU	C-N-CA	8.28	131.71	120.44
10	CT	80	LEU	CA-C-N	8.28	131.71	120.44
10	CT	80	LEU	C-N-CA	8.28	131.71	120.44
10	Ci	80	LEU	CA-C-N	8.28	131.71	120.44
10	Ci	80	LEU	C-N-CA	8.28	131.71	120.44
10	Cx	80	LEU	CA-C-N	8.28	131.71	120.44
10	Cx	80	LEU	C-N-CA	8.28	131.71	120.44
10	C7	80	LEU	CA-C-N	8.27	131.69	120.44
10	C7	80	LEU	C-N-CA	8.27	131.69	120.44
10	CO	80	LEU	CA-C-N	8.27	131.69	120.44
10	CO	80	LEU	C-N-CA	8.27	131.69	120.44
10	Cd	80	LEU	CA-C-N	8.27	131.69	120.44
10	Cd	80	LEU	C-N-CA	8.27	131.69	120.44
10	Cs	80	LEU	CA-C-N	8.27	131.69	120.44
10	Cs	80	LEU	C-N-CA	8.27	131.69	120.44
9	CD	196	SER	CA-C-N	8.26	137.31	121.54
9	CD	196	SER	C-N-CA	8.26	137.31	121.54
9	CS	196	SER	CA-C-N	8.26	137.31	121.54
9	CS	196	SER	C-N-CA	8.26	137.31	121.54
9	Ch	196	SER	CA-C-N	8.26	137.31	121.54
9	Ch	196	SER	C-N-CA	8.26	137.31	121.54
9	Cw	196	SER	CA-C-N	8.26	137.31	121.54
9	Cw	196	SER	C-N-CA	8.26	137.31	121.54
9	C6	196	SER	CA-C-N	8.23	137.26	121.54
9	C6	196	SER	C-N-CA	8.23	137.26	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	CN	196	SER	CA-C-N	8.23	137.26	121.54
9	CN	196	SER	C-N-CA	8.23	137.26	121.54
9	Cc	196	SER	CA-C-N	8.23	137.26	121.54
9	Cc	196	SER	C-N-CA	8.23	137.26	121.54
9	Cr	196	SER	CA-C-N	8.23	137.26	121.54
9	Cr	196	SER	C-N-CA	8.23	137.26	121.54
8	C0	186	GLN	CA-C-N	8.23	137.25	121.54
8	C0	186	GLN	C-N-CA	8.23	137.25	121.54
9	C1	196	SER	CA-C-N	8.23	137.25	121.54
9	C1	196	SER	C-N-CA	8.23	137.25	121.54
8	CH	186	GLN	CA-C-N	8.23	137.25	121.54
8	CH	186	GLN	C-N-CA	8.23	137.25	121.54
9	CI	196	SER	CA-C-N	8.23	137.25	121.54
9	CI	196	SER	C-N-CA	8.23	137.25	121.54
8	CW	186	GLN	CA-C-N	8.23	137.25	121.54
8	CW	186	GLN	C-N-CA	8.23	137.25	121.54
9	CX	196	SER	CA-C-N	8.23	137.25	121.54
9	CX	196	SER	C-N-CA	8.23	137.25	121.54
8	Cl	186	GLN	CA-C-N	8.23	137.25	121.54
8	Cl	186	GLN	C-N-CA	8.23	137.25	121.54
9	Cm	196	SER	CA-C-N	8.23	137.25	121.54
9	Cm	196	SER	C-N-CA	8.23	137.25	121.54
8	CC	186	GLN	CA-C-N	8.22	137.25	121.54
8	CC	186	GLN	C-N-CA	8.22	137.25	121.54
8	CR	186	GLN	CA-C-N	8.22	137.25	121.54
8	CR	186	GLN	C-N-CA	8.22	137.25	121.54
8	Cg	186	GLN	CA-C-N	8.22	137.25	121.54
8	Cg	186	GLN	C-N-CA	8.22	137.25	121.54
8	Cv	186	GLN	CA-C-N	8.22	137.25	121.54
8	Cv	186	GLN	C-N-CA	8.22	137.25	121.54
3	A7	5	ASP	CA-CB-CG	-8.21	104.39	112.60
3	AO	5	ASP	CA-CB-CG	-8.21	104.39	112.60
3	Ad	5	ASP	CA-CB-CG	-8.21	104.39	112.60
3	As	5	ASP	CA-CB-CG	-8.21	104.39	112.60
8	C5	186	GLN	CA-C-N	8.21	137.22	121.54
8	C5	186	GLN	C-N-CA	8.21	137.22	121.54
8	CM	186	GLN	CA-C-N	8.21	137.22	121.54
8	CM	186	GLN	C-N-CA	8.21	137.22	121.54
8	Cb	186	GLN	CA-C-N	8.21	137.22	121.54
8	Cb	186	GLN	C-N-CA	8.21	137.22	121.54
8	Cq	186	GLN	CA-C-N	8.21	137.22	121.54
8	Cq	186	GLN	C-N-CA	8.21	137.22	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	AE	5	ASP	CA-CB-CG	-8.20	104.40	112.60
3	AT	5	ASP	CA-CB-CG	-8.20	104.40	112.60
3	Ai	5	ASP	CA-CB-CG	-8.20	104.40	112.60
3	Ax	5	ASP	CA-CB-CG	-8.20	104.40	112.60
6	B1	147	ALA	N-CA-C	-8.19	102.36	111.28
6	BI	147	ALA	N-CA-C	-8.19	102.36	111.28
6	BX	147	ALA	N-CA-C	-8.19	102.36	111.28
6	Bm	147	ALA	N-CA-C	-8.19	102.36	111.28
3	A2	5	ASP	CA-CB-CG	-8.18	104.42	112.60
3	AJ	5	ASP	CA-CB-CG	-8.18	104.42	112.60
3	AY	5	ASP	CA-CB-CG	-8.18	104.42	112.60
3	An	5	ASP	CA-CB-CG	-8.18	104.42	112.60
6	BD	147	ALA	N-CA-C	-8.16	102.38	111.28
6	BS	147	ALA	N-CA-C	-8.16	102.38	111.28
6	Bh	147	ALA	N-CA-C	-8.16	102.38	111.28
6	Bw	147	ALA	N-CA-C	-8.16	102.38	111.28
6	B6	147	ALA	N-CA-C	-8.14	102.41	111.28
6	BN	147	ALA	N-CA-C	-8.14	102.41	111.28
6	Bc	147	ALA	N-CA-C	-8.14	102.41	111.28
6	Br	147	ALA	N-CA-C	-8.14	102.41	111.28
9	C6	174	PHE	N-CA-C	-8.13	102.11	110.97
9	CN	174	PHE	N-CA-C	-8.13	102.11	110.97
9	Cc	174	PHE	N-CA-C	-8.13	102.11	110.97
9	Cr	174	PHE	N-CA-C	-8.13	102.11	110.97
9	CD	174	PHE	N-CA-C	-8.11	102.13	110.97
9	CS	174	PHE	N-CA-C	-8.11	102.13	110.97
9	Ch	174	PHE	N-CA-C	-8.11	102.13	110.97
9	Cw	174	PHE	N-CA-C	-8.11	102.13	110.97
9	C1	174	PHE	N-CA-C	-8.10	102.15	110.97
9	CI	174	PHE	N-CA-C	-8.10	102.15	110.97
9	CX	174	PHE	N-CA-C	-8.10	102.15	110.97
9	Cm	174	PHE	N-CA-C	-8.10	102.15	110.97
4	AB	98	GLY	N-CA-C	-8.04	105.51	115.08
4	AQ	98	GLY	N-CA-C	-8.04	105.51	115.08
4	Af	98	GLY	N-CA-C	-8.04	105.51	115.08
4	Au	98	GLY	N-CA-C	-8.04	105.51	115.08
10	C2	157	ASP	CA-CB-CG	-8.04	104.56	112.60
10	CJ	157	ASP	CA-CB-CG	-8.04	104.56	112.60
10	CY	157	ASP	CA-CB-CG	-8.04	104.56	112.60
10	Cn	157	ASP	CA-CB-CG	-8.04	104.56	112.60
10	CE	157	ASP	CA-CB-CG	-8.03	104.57	112.60
10	CT	157	ASP	CA-CB-CG	-8.03	104.57	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	Ci	157	ASP	CA-CB-CG	-8.03	104.57	112.60
10	Cx	157	ASP	CA-CB-CG	-8.03	104.57	112.60
10	C7	157	ASP	CA-CB-CG	-8.01	104.59	112.60
10	CO	157	ASP	CA-CB-CG	-8.01	104.59	112.60
10	Cd	157	ASP	CA-CB-CG	-8.01	104.59	112.60
10	Cs	157	ASP	CA-CB-CG	-8.01	104.59	112.60
4	AG	98	GLY	N-CA-C	-8.00	105.56	115.08
4	AV	98	GLY	N-CA-C	-8.00	105.56	115.08
4	Ak	98	GLY	N-CA-C	-8.00	105.56	115.08
4	Az	98	GLY	N-CA-C	-8.00	105.56	115.08
4	A4	98	GLY	N-CA-C	-8.00	105.56	115.08
4	AL	98	GLY	N-CA-C	-8.00	105.56	115.08
4	Aa	98	GLY	N-CA-C	-8.00	105.56	115.08
4	Ap	98	GLY	N-CA-C	-8.00	105.56	115.08
6	BD	65	GLU	N-CA-C	-7.94	102.61	111.82
6	BS	65	GLU	N-CA-C	-7.94	102.61	111.82
6	Bh	65	GLU	N-CA-C	-7.94	102.61	111.82
6	Bw	65	GLU	N-CA-C	-7.94	102.61	111.82
6	B6	65	GLU	N-CA-C	-7.93	102.62	111.82
6	BN	65	GLU	N-CA-C	-7.93	102.62	111.82
6	Bc	65	GLU	N-CA-C	-7.93	102.62	111.82
6	Br	65	GLU	N-CA-C	-7.93	102.62	111.82
5	CB	85	ASP	CA-CB-CG	-7.92	104.68	112.60
5	CQ	85	ASP	CA-CB-CG	-7.92	104.68	112.60
5	Cf	85	ASP	CA-CB-CG	-7.92	104.68	112.60
5	Cu	85	ASP	CA-CB-CG	-7.92	104.68	112.60
8	C0	123	LEU	CA-C-N	7.92	131.28	120.67
8	C0	123	LEU	C-N-CA	7.92	131.28	120.67
8	CH	123	LEU	CA-C-N	7.92	131.28	120.67
8	CH	123	LEU	C-N-CA	7.92	131.28	120.67
8	CW	123	LEU	CA-C-N	7.92	131.28	120.67
8	CW	123	LEU	C-N-CA	7.92	131.28	120.67
8	Cl	123	LEU	CA-C-N	7.92	131.28	120.67
8	Cl	123	LEU	C-N-CA	7.92	131.28	120.67
5	CG	85	ASP	CA-CB-CG	-7.91	104.69	112.60
5	CV	85	ASP	CA-CB-CG	-7.91	104.69	112.60
5	Ck	85	ASP	CA-CB-CG	-7.91	104.69	112.60
5	Cz	85	ASP	CA-CB-CG	-7.91	104.69	112.60
6	B1	65	GLU	N-CA-C	-7.91	102.65	111.82
6	BI	65	GLU	N-CA-C	-7.91	102.65	111.82
6	BX	65	GLU	N-CA-C	-7.91	102.65	111.82
6	Bm	65	GLU	N-CA-C	-7.91	102.65	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	BC	10	LEU	CA-C-N	7.91	130.52	120.56
5	BC	10	LEU	C-N-CA	7.91	130.52	120.56
5	BR	10	LEU	CA-C-N	7.91	130.52	120.56
5	BR	10	LEU	C-N-CA	7.91	130.52	120.56
5	Bg	10	LEU	CA-C-N	7.91	130.52	120.56
5	Bg	10	LEU	C-N-CA	7.91	130.52	120.56
5	Bv	10	LEU	CA-C-N	7.91	130.52	120.56
5	Bv	10	LEU	C-N-CA	7.91	130.52	120.56
8	CC	123	LEU	CA-C-N	7.91	131.26	120.67
8	CC	123	LEU	C-N-CA	7.91	131.26	120.67
8	CR	123	LEU	CA-C-N	7.91	131.26	120.67
8	CR	123	LEU	C-N-CA	7.91	131.26	120.67
8	Cg	123	LEU	CA-C-N	7.91	131.26	120.67
8	Cg	123	LEU	C-N-CA	7.91	131.26	120.67
8	Cv	123	LEU	CA-C-N	7.91	131.26	120.67
8	Cv	123	LEU	C-N-CA	7.91	131.26	120.67
8	C5	185	GLY	N-CA-C	-7.90	104.65	114.92
8	CC	185	GLY	N-CA-C	-7.90	104.65	114.92
8	CM	185	GLY	N-CA-C	-7.90	104.65	114.92
8	CR	185	GLY	N-CA-C	-7.90	104.65	114.92
8	Cb	185	GLY	N-CA-C	-7.90	104.65	114.92
8	Cg	185	GLY	N-CA-C	-7.90	104.65	114.92
8	Cq	185	GLY	N-CA-C	-7.90	104.65	114.92
8	Cv	185	GLY	N-CA-C	-7.90	104.65	114.92
8	C0	185	GLY	N-CA-C	-7.90	104.65	114.92
8	CH	185	GLY	N-CA-C	-7.90	104.65	114.92
8	CW	185	GLY	N-CA-C	-7.90	104.65	114.92
8	Cl	185	GLY	N-CA-C	-7.90	104.65	114.92
8	C5	123	LEU	CA-C-N	7.89	131.25	120.67
8	C5	123	LEU	C-N-CA	7.89	131.25	120.67
8	CM	123	LEU	CA-C-N	7.89	131.25	120.67
8	CM	123	LEU	C-N-CA	7.89	131.25	120.67
8	Cb	123	LEU	CA-C-N	7.89	131.25	120.67
8	Cb	123	LEU	C-N-CA	7.89	131.25	120.67
8	Cq	123	LEU	CA-C-N	7.89	131.25	120.67
8	Cq	123	LEU	C-N-CA	7.89	131.25	120.67
5	C4	85	ASP	CA-CB-CG	-7.89	104.71	112.60
5	CL	85	ASP	CA-CB-CG	-7.89	104.71	112.60
5	Ca	85	ASP	CA-CB-CG	-7.89	104.71	112.60
5	Cp	85	ASP	CA-CB-CG	-7.89	104.71	112.60
5	B5	10	LEU	CA-C-N	7.85	130.45	120.56
5	B5	10	LEU	C-N-CA	7.85	130.45	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	BM	10	LEU	CA-C-N	7.85	130.45	120.56
5	BM	10	LEU	C-N-CA	7.85	130.45	120.56
5	Bb	10	LEU	CA-C-N	7.85	130.45	120.56
5	Bb	10	LEU	C-N-CA	7.85	130.45	120.56
5	Bq	10	LEU	CA-C-N	7.85	130.45	120.56
5	Bq	10	LEU	C-N-CA	7.85	130.45	120.56
3	AA	65	GLU	N-CA-C	-7.85	102.72	111.82
3	AP	65	GLU	N-CA-C	-7.85	102.72	111.82
3	Ae	65	GLU	N-CA-C	-7.85	102.72	111.82
3	At	65	GLU	N-CA-C	-7.85	102.72	111.82
3	AF	65	GLU	N-CA-C	-7.84	102.72	111.82
3	AU	65	GLU	N-CA-C	-7.84	102.72	111.82
3	Aj	65	GLU	N-CA-C	-7.84	102.72	111.82
3	Ay	65	GLU	N-CA-C	-7.84	102.72	111.82
10	C2	64	GLU	N-CA-C	-7.84	102.68	111.07
10	CJ	64	GLU	N-CA-C	-7.84	102.68	111.07
10	CY	64	GLU	N-CA-C	-7.84	102.68	111.07
10	Cn	64	GLU	N-CA-C	-7.84	102.68	111.07
3	A3	65	GLU	N-CA-C	-7.83	102.74	111.82
3	AK	65	GLU	N-CA-C	-7.83	102.74	111.82
3	AZ	65	GLU	N-CA-C	-7.83	102.74	111.82
3	Ao	65	GLU	N-CA-C	-7.83	102.74	111.82
5	B0	10	LEU	CA-C-N	7.83	130.42	120.56
5	B0	10	LEU	C-N-CA	7.83	130.42	120.56
5	BH	10	LEU	CA-C-N	7.83	130.42	120.56
5	BH	10	LEU	C-N-CA	7.83	130.42	120.56
5	BW	10	LEU	CA-C-N	7.83	130.42	120.56
5	BW	10	LEU	C-N-CA	7.83	130.42	120.56
5	Bl	10	LEU	CA-C-N	7.83	130.42	120.56
5	Bl	10	LEU	C-N-CA	7.83	130.42	120.56
10	C7	64	GLU	N-CA-C	-7.83	102.69	111.07
10	CO	64	GLU	N-CA-C	-7.83	102.69	111.07
10	Cd	64	GLU	N-CA-C	-7.83	102.69	111.07
10	Cs	64	GLU	N-CA-C	-7.83	102.69	111.07
10	C2	116	HIS	N-CA-C	-7.82	102.38	112.23
10	C7	116	HIS	N-CA-C	-7.82	102.38	112.23
10	CJ	116	HIS	N-CA-C	-7.82	102.38	112.23
10	CO	116	HIS	N-CA-C	-7.82	102.38	112.23
10	CY	116	HIS	N-CA-C	-7.82	102.38	112.23
10	Cd	116	HIS	N-CA-C	-7.82	102.38	112.23
10	Cn	116	HIS	N-CA-C	-7.82	102.38	112.23
10	Cs	116	HIS	N-CA-C	-7.82	102.38	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	C1	226	GLU	CB-CG-CD	-7.82	99.31	112.60
9	CI	226	GLU	CB-CG-CD	-7.82	99.31	112.60
9	CX	226	GLU	CB-CG-CD	-7.82	99.31	112.60
9	Cm	226	GLU	CB-CG-CD	-7.82	99.31	112.60
9	CD	226	GLU	CB-CG-CD	-7.81	99.32	112.60
9	CS	226	GLU	CB-CG-CD	-7.81	99.32	112.60
9	Ch	226	GLU	CB-CG-CD	-7.81	99.32	112.60
9	Cw	226	GLU	CB-CG-CD	-7.81	99.32	112.60
10	CE	64	GLU	N-CA-C	-7.81	102.72	111.07
10	CT	64	GLU	N-CA-C	-7.81	102.72	111.07
10	Ci	64	GLU	N-CA-C	-7.81	102.72	111.07
10	Cx	64	GLU	N-CA-C	-7.81	102.72	111.07
9	C6	226	GLU	CB-CG-CD	-7.80	99.33	112.60
9	CN	226	GLU	CB-CG-CD	-7.80	99.33	112.60
9	Cc	226	GLU	CB-CG-CD	-7.80	99.33	112.60
9	Cr	226	GLU	CB-CG-CD	-7.80	99.33	112.60
10	CE	116	HIS	N-CA-C	-7.79	102.41	112.23
10	CT	116	HIS	N-CA-C	-7.79	102.41	112.23
10	Ci	116	HIS	N-CA-C	-7.79	102.41	112.23
10	Cx	116	HIS	N-CA-C	-7.79	102.41	112.23
8	CC	13	LEU	N-CA-C	-7.77	103.06	112.54
8	CR	13	LEU	N-CA-C	-7.77	103.06	112.54
8	Cg	13	LEU	N-CA-C	-7.77	103.06	112.54
8	Cv	13	LEU	N-CA-C	-7.77	103.06	112.54
8	C5	13	LEU	N-CA-C	-7.76	103.07	112.54
8	CM	13	LEU	N-CA-C	-7.76	103.07	112.54
8	Cb	13	LEU	N-CA-C	-7.76	103.07	112.54
8	Cq	13	LEU	N-CA-C	-7.76	103.07	112.54
8	C0	13	LEU	N-CA-C	-7.75	103.08	112.54
8	CH	13	LEU	N-CA-C	-7.75	103.08	112.54
8	CW	13	LEU	N-CA-C	-7.75	103.08	112.54
8	Cl	13	LEU	N-CA-C	-7.75	103.08	112.54
4	AB	143	GLY	N-CA-C	-7.72	105.17	115.21
4	AQ	143	GLY	N-CA-C	-7.72	105.17	115.21
4	Af	143	GLY	N-CA-C	-7.72	105.17	115.21
4	Au	143	GLY	N-CA-C	-7.72	105.17	115.21
8	C0	187	SER	CA-C-N	-7.72	112.25	123.05
8	C0	187	SER	C-N-CA	-7.72	112.25	123.05
8	CH	187	SER	CA-C-N	-7.72	112.25	123.05
8	CH	187	SER	C-N-CA	-7.72	112.25	123.05
8	CW	187	SER	CA-C-N	-7.72	112.25	123.05
8	CW	187	SER	C-N-CA	-7.72	112.25	123.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	Cl	187	SER	CA-C-N	-7.72	112.25	123.05
8	Cl	187	SER	C-N-CA	-7.72	112.25	123.05
4	AG	143	GLY	N-CA-C	-7.71	105.18	115.21
4	AV	143	GLY	N-CA-C	-7.71	105.18	115.21
4	Ak	143	GLY	N-CA-C	-7.71	105.18	115.21
4	Az	143	GLY	N-CA-C	-7.71	105.18	115.21
4	A4	143	GLY	N-CA-C	-7.71	105.18	115.21
3	AE	65	GLU	N-CA-C	-7.71	102.87	111.82
4	AL	143	GLY	N-CA-C	-7.71	105.18	115.21
3	AT	65	GLU	N-CA-C	-7.71	102.87	111.82
4	Aa	143	GLY	N-CA-C	-7.71	105.18	115.21
3	Ai	65	GLU	N-CA-C	-7.71	102.87	111.82
4	Ap	143	GLY	N-CA-C	-7.71	105.18	115.21
3	Ax	65	GLU	N-CA-C	-7.71	102.87	111.82
8	CC	187	SER	CA-C-N	-7.71	112.25	123.05
8	CC	187	SER	C-N-CA	-7.71	112.25	123.05
8	CR	187	SER	CA-C-N	-7.71	112.25	123.05
8	CR	187	SER	C-N-CA	-7.71	112.25	123.05
8	Cg	187	SER	CA-C-N	-7.71	112.25	123.05
8	Cg	187	SER	C-N-CA	-7.71	112.25	123.05
8	Cv	187	SER	CA-C-N	-7.71	112.25	123.05
8	Cv	187	SER	C-N-CA	-7.71	112.25	123.05
8	C5	187	SER	CA-C-N	-7.71	112.26	123.05
8	C5	187	SER	C-N-CA	-7.71	112.26	123.05
8	CM	187	SER	CA-C-N	-7.71	112.26	123.05
8	CM	187	SER	C-N-CA	-7.71	112.26	123.05
8	Cb	187	SER	CA-C-N	-7.71	112.26	123.05
8	Cb	187	SER	C-N-CA	-7.71	112.26	123.05
8	Cq	187	SER	CA-C-N	-7.71	112.26	123.05
8	Cq	187	SER	C-N-CA	-7.71	112.26	123.05
8	C5	109	SER	CA-C-N	7.69	133.84	122.99
8	C5	109	SER	C-N-CA	7.69	133.84	122.99
8	CM	109	SER	CA-C-N	7.69	133.84	122.99
8	CM	109	SER	C-N-CA	7.69	133.84	122.99
8	Cb	109	SER	CA-C-N	7.69	133.84	122.99
8	Cb	109	SER	C-N-CA	7.69	133.84	122.99
8	Cq	109	SER	CA-C-N	7.69	133.84	122.99
8	Cq	109	SER	C-N-CA	7.69	133.84	122.99
3	A7	65	GLU	N-CA-C	-7.69	102.90	111.82
3	AO	65	GLU	N-CA-C	-7.69	102.90	111.82
3	Ad	65	GLU	N-CA-C	-7.69	102.90	111.82
3	As	65	GLU	N-CA-C	-7.69	102.90	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A2	65	GLU	N-CA-C	-7.66	102.94	111.82
3	AJ	65	GLU	N-CA-C	-7.66	102.94	111.82
3	AY	65	GLU	N-CA-C	-7.66	102.94	111.82
3	An	65	GLU	N-CA-C	-7.66	102.94	111.82
8	CC	109	SER	CA-C-N	7.65	133.78	122.99
8	CC	109	SER	C-N-CA	7.65	133.78	122.99
8	CR	109	SER	CA-C-N	7.65	133.78	122.99
8	CR	109	SER	C-N-CA	7.65	133.78	122.99
8	Cg	109	SER	CA-C-N	7.65	133.78	122.99
8	Cg	109	SER	C-N-CA	7.65	133.78	122.99
8	Cv	109	SER	CA-C-N	7.65	133.78	122.99
8	Cv	109	SER	C-N-CA	7.65	133.78	122.99
8	C0	109	SER	CA-C-N	7.65	133.77	122.99
8	C0	109	SER	C-N-CA	7.65	133.77	122.99
8	CH	109	SER	CA-C-N	7.65	133.77	122.99
8	CH	109	SER	C-N-CA	7.65	133.77	122.99
8	CW	109	SER	CA-C-N	7.65	133.77	122.99
8	CW	109	SER	C-N-CA	7.65	133.77	122.99
8	Cl	109	SER	CA-C-N	7.65	133.77	122.99
8	Cl	109	SER	C-N-CA	7.65	133.77	122.99
2	AD	105	ASN	CB-CA-C	-7.60	96.71	109.48
2	AS	105	ASN	CB-CA-C	-7.60	96.71	109.48
2	Ah	105	ASN	CB-CA-C	-7.60	96.71	109.48
2	Aw	105	ASN	CB-CA-C	-7.60	96.71	109.48
9	C1	42	ASP	CB-CA-C	-7.60	98.44	109.38
10	C2	59	ASP	CA-CB-CG	-7.60	105.00	112.60
9	CI	42	ASP	CB-CA-C	-7.60	98.44	109.38
10	CJ	59	ASP	CA-CB-CG	-7.60	105.00	112.60
9	CX	42	ASP	CB-CA-C	-7.60	98.44	109.38
10	CY	59	ASP	CA-CB-CG	-7.60	105.00	112.60
9	Cm	42	ASP	CB-CA-C	-7.60	98.44	109.38
10	Cn	59	ASP	CA-CB-CG	-7.60	105.00	112.60
2	A1	105	ASN	CB-CA-C	-7.59	96.73	109.48
2	AI	105	ASN	CB-CA-C	-7.59	96.73	109.48
2	AX	105	ASN	CB-CA-C	-7.59	96.73	109.48
2	Am	105	ASN	CB-CA-C	-7.59	96.73	109.48
9	C6	42	ASP	CB-CA-C	-7.58	98.46	109.38
9	CN	42	ASP	CB-CA-C	-7.58	98.46	109.38
9	Cc	42	ASP	CB-CA-C	-7.58	98.46	109.38
9	Cr	42	ASP	CB-CA-C	-7.58	98.46	109.38
2	A6	105	ASN	CB-CA-C	-7.58	96.75	109.48
2	AN	105	ASN	CB-CA-C	-7.58	96.75	109.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ac	105	ASN	CB-CA-C	-7.58	96.75	109.48
2	Ar	105	ASN	CB-CA-C	-7.58	96.75	109.48
8	C5	65	HIS	CA-C-N	7.58	134.79	122.29
8	C5	65	HIS	C-N-CA	7.58	134.79	122.29
9	CD	42	ASP	CB-CA-C	-7.58	98.47	109.38
8	CM	65	HIS	CA-C-N	7.58	134.79	122.29
8	CM	65	HIS	C-N-CA	7.58	134.79	122.29
9	CS	42	ASP	CB-CA-C	-7.58	98.47	109.38
8	Cb	65	HIS	CA-C-N	7.58	134.79	122.29
8	Cb	65	HIS	C-N-CA	7.58	134.79	122.29
9	Ch	42	ASP	CB-CA-C	-7.58	98.47	109.38
8	Cq	65	HIS	CA-C-N	7.58	134.79	122.29
8	Cq	65	HIS	C-N-CA	7.58	134.79	122.29
9	Cw	42	ASP	CB-CA-C	-7.58	98.47	109.38
8	CC	65	HIS	CA-C-N	7.57	134.78	122.29
8	CC	65	HIS	C-N-CA	7.57	134.78	122.29
8	CR	65	HIS	CA-C-N	7.57	134.78	122.29
8	CR	65	HIS	C-N-CA	7.57	134.78	122.29
8	Cg	65	HIS	CA-C-N	7.57	134.78	122.29
8	Cg	65	HIS	C-N-CA	7.57	134.78	122.29
8	Cv	65	HIS	CA-C-N	7.57	134.78	122.29
8	Cv	65	HIS	C-N-CA	7.57	134.78	122.29
10	C7	59	ASP	CA-CB-CG	-7.56	105.04	112.60
10	CE	59	ASP	CA-CB-CG	-7.56	105.04	112.60
10	CO	59	ASP	CA-CB-CG	-7.56	105.04	112.60
10	CT	59	ASP	CA-CB-CG	-7.56	105.04	112.60
10	Cd	59	ASP	CA-CB-CG	-7.56	105.04	112.60
10	Ci	59	ASP	CA-CB-CG	-7.56	105.04	112.60
10	Cs	59	ASP	CA-CB-CG	-7.56	105.04	112.60
10	Cx	59	ASP	CA-CB-CG	-7.56	105.04	112.60
8	C0	65	HIS	CA-C-N	7.55	134.75	122.29
8	C0	65	HIS	C-N-CA	7.55	134.75	122.29
8	CH	65	HIS	CA-C-N	7.55	134.75	122.29
8	CH	65	HIS	C-N-CA	7.55	134.75	122.29
8	CW	65	HIS	CA-C-N	7.55	134.75	122.29
8	CW	65	HIS	C-N-CA	7.55	134.75	122.29
8	Cl	65	HIS	CA-C-N	7.55	134.75	122.29
8	Cl	65	HIS	C-N-CA	7.55	134.75	122.29
9	C1	85	GLY	N-CA-C	-7.52	104.99	113.79
9	CI	85	GLY	N-CA-C	-7.52	104.99	113.79
9	CX	85	GLY	N-CA-C	-7.52	104.99	113.79
9	Cm	85	GLY	N-CA-C	-7.52	104.99	113.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	CD	85	GLY	N-CA-C	-7.51	105.00	113.79
9	CS	85	GLY	N-CA-C	-7.51	105.00	113.79
9	Ch	85	GLY	N-CA-C	-7.51	105.00	113.79
9	Cw	85	GLY	N-CA-C	-7.51	105.00	113.79
9	C6	85	GLY	N-CA-C	-7.50	105.01	113.79
9	CN	85	GLY	N-CA-C	-7.50	105.01	113.79
9	Cc	85	GLY	N-CA-C	-7.50	105.01	113.79
9	Cr	85	GLY	N-CA-C	-7.50	105.01	113.79
10	CE	85	GLY	N-CA-C	-7.49	105.03	113.79
10	CT	85	GLY	N-CA-C	-7.49	105.03	113.79
10	Ci	85	GLY	N-CA-C	-7.49	105.03	113.79
10	Cx	85	GLY	N-CA-C	-7.49	105.03	113.79
10	C7	85	GLY	N-CA-C	-7.47	105.05	113.79
10	CO	85	GLY	N-CA-C	-7.47	105.05	113.79
10	Cd	85	GLY	N-CA-C	-7.47	105.05	113.79
10	Cs	85	GLY	N-CA-C	-7.47	105.05	113.79
9	C6	122	ALA	CA-C-N	7.46	133.78	121.39
9	C6	122	ALA	C-N-CA	7.46	133.78	121.39
9	CN	122	ALA	CA-C-N	7.46	133.78	121.39
9	CN	122	ALA	C-N-CA	7.46	133.78	121.39
9	Cc	122	ALA	CA-C-N	7.46	133.78	121.39
9	Cc	122	ALA	C-N-CA	7.46	133.78	121.39
9	Cr	122	ALA	CA-C-N	7.46	133.78	121.39
9	Cr	122	ALA	C-N-CA	7.46	133.78	121.39
10	C2	59	ASP	O-C-N	7.46	128.21	121.35
10	CJ	59	ASP	O-C-N	7.46	128.21	121.35
10	CY	59	ASP	O-C-N	7.46	128.21	121.35
10	Cn	59	ASP	O-C-N	7.46	128.21	121.35
9	C6	216	HIS	CA-CB-CG	-7.46	106.34	113.80
9	CN	216	HIS	CA-CB-CG	-7.46	106.34	113.80
9	Cc	216	HIS	CA-CB-CG	-7.46	106.34	113.80
9	Cr	216	HIS	CA-CB-CG	-7.46	106.34	113.80
9	CD	216	HIS	CA-CB-CG	-7.45	106.35	113.80
9	CS	216	HIS	CA-CB-CG	-7.45	106.35	113.80
9	Ch	216	HIS	CA-CB-CG	-7.45	106.35	113.80
9	Cw	216	HIS	CA-CB-CG	-7.45	106.35	113.80
10	C2	85	GLY	N-CA-C	-7.45	105.08	113.79
10	CJ	85	GLY	N-CA-C	-7.45	105.08	113.79
10	CY	85	GLY	N-CA-C	-7.45	105.08	113.79
10	Cn	85	GLY	N-CA-C	-7.45	105.08	113.79
10	CE	59	ASP	O-C-N	7.44	128.20	121.35
10	CT	59	ASP	O-C-N	7.44	128.20	121.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	Ci	59	ASP	O-C-N	7.44	128.20	121.35
10	Cx	59	ASP	O-C-N	7.44	128.20	121.35
8	C5	140	PHE	N-CA-CB	7.44	122.53	110.40
9	CD	122	ALA	CA-C-N	7.44	133.75	121.39
9	CD	122	ALA	C-N-CA	7.44	133.75	121.39
8	CM	140	PHE	N-CA-CB	7.44	122.53	110.40
9	CS	122	ALA	CA-C-N	7.44	133.75	121.39
9	CS	122	ALA	C-N-CA	7.44	133.75	121.39
8	Cb	140	PHE	N-CA-CB	7.44	122.53	110.40
9	Ch	122	ALA	CA-C-N	7.44	133.75	121.39
9	Ch	122	ALA	C-N-CA	7.44	133.75	121.39
8	Cq	140	PHE	N-CA-CB	7.44	122.53	110.40
9	Cw	122	ALA	CA-C-N	7.44	133.75	121.39
9	Cw	122	ALA	C-N-CA	7.44	133.75	121.39
8	C0	140	PHE	N-CA-CB	7.44	122.53	110.40
9	C1	122	ALA	CA-C-N	7.44	133.74	121.39
9	C1	122	ALA	C-N-CA	7.44	133.74	121.39
10	C7	106	ASP	CA-CB-CG	-7.44	105.16	112.60
8	CH	140	PHE	N-CA-CB	7.44	122.53	110.40
9	CI	122	ALA	CA-C-N	7.44	133.74	121.39
9	CI	122	ALA	C-N-CA	7.44	133.74	121.39
10	CO	106	ASP	CA-CB-CG	-7.44	105.16	112.60
8	CW	140	PHE	N-CA-CB	7.44	122.53	110.40
9	CX	122	ALA	CA-C-N	7.44	133.74	121.39
9	CX	122	ALA	C-N-CA	7.44	133.74	121.39
10	Cd	106	ASP	CA-CB-CG	-7.44	105.16	112.60
8	Cl	140	PHE	N-CA-CB	7.44	122.53	110.40
9	Cm	122	ALA	CA-C-N	7.44	133.74	121.39
9	Cm	122	ALA	C-N-CA	7.44	133.74	121.39
10	Cs	106	ASP	CA-CB-CG	-7.44	105.16	112.60
9	C1	216	HIS	CA-CB-CG	-7.43	106.36	113.80
9	CI	216	HIS	CA-CB-CG	-7.43	106.36	113.80
9	CX	216	HIS	CA-CB-CG	-7.43	106.36	113.80
9	Cm	216	HIS	CA-CB-CG	-7.43	106.36	113.80
4	BE	81	GLN	CA-C-N	7.43	127.30	119.05
4	BE	81	GLN	C-N-CA	7.43	127.30	119.05
4	BT	81	GLN	CA-C-N	7.43	127.30	119.05
4	BT	81	GLN	C-N-CA	7.43	127.30	119.05
4	Bi	81	GLN	CA-C-N	7.43	127.30	119.05
4	Bi	81	GLN	C-N-CA	7.43	127.30	119.05
4	Bx	81	GLN	CA-C-N	7.43	127.30	119.05
4	Bx	81	GLN	C-N-CA	7.43	127.30	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	C2	106	ASP	CA-CB-CG	-7.42	105.17	112.60
10	C7	59	ASP	O-C-N	7.42	128.18	121.35
10	CJ	106	ASP	CA-CB-CG	-7.42	105.17	112.60
10	CO	59	ASP	O-C-N	7.42	128.18	121.35
10	CY	106	ASP	CA-CB-CG	-7.42	105.17	112.60
10	Cd	59	ASP	O-C-N	7.42	128.18	121.35
10	Cn	106	ASP	CA-CB-CG	-7.42	105.17	112.60
10	Cs	59	ASP	O-C-N	7.42	128.18	121.35
4	B7	81	GLN	CA-C-N	7.42	127.28	119.05
4	B7	81	GLN	C-N-CA	7.42	127.28	119.05
4	BO	81	GLN	CA-C-N	7.42	127.28	119.05
4	BO	81	GLN	C-N-CA	7.42	127.28	119.05
4	Bd	81	GLN	CA-C-N	7.42	127.28	119.05
4	Bd	81	GLN	C-N-CA	7.42	127.28	119.05
4	Bs	81	GLN	CA-C-N	7.42	127.28	119.05
4	Bs	81	GLN	C-N-CA	7.42	127.28	119.05
10	CE	106	ASP	CA-CB-CG	-7.42	105.18	112.60
10	CT	106	ASP	CA-CB-CG	-7.42	105.18	112.60
10	Ci	106	ASP	CA-CB-CG	-7.42	105.18	112.60
10	Cx	106	ASP	CA-CB-CG	-7.42	105.18	112.60
8	CC	140	PHE	N-CA-CB	7.41	122.48	110.40
8	CR	140	PHE	N-CA-CB	7.41	122.48	110.40
8	Cg	140	PHE	N-CA-CB	7.41	122.48	110.40
8	Cv	140	PHE	N-CA-CB	7.41	122.48	110.40
2	A6	138	CYS	N-CA-C	7.41	120.44	111.40
2	AN	138	CYS	N-CA-C	7.41	120.44	111.40
2	Ac	138	CYS	N-CA-C	7.41	120.44	111.40
2	Ar	138	CYS	N-CA-C	7.41	120.44	111.40
2	A1	138	CYS	N-CA-C	7.40	120.43	111.40
2	AI	138	CYS	N-CA-C	7.40	120.43	111.40
2	AX	138	CYS	N-CA-C	7.40	120.43	111.40
2	Am	138	CYS	N-CA-C	7.40	120.43	111.40
2	AD	138	CYS	N-CA-C	7.40	120.42	111.40
2	AS	138	CYS	N-CA-C	7.40	120.42	111.40
2	Ah	138	CYS	N-CA-C	7.40	120.42	111.40
2	Aw	138	CYS	N-CA-C	7.40	120.42	111.40
4	B2	81	GLN	CA-C-N	7.37	127.23	119.05
4	B2	81	GLN	C-N-CA	7.37	127.23	119.05
4	BJ	81	GLN	CA-C-N	7.37	127.23	119.05
4	BJ	81	GLN	C-N-CA	7.37	127.23	119.05
4	BY	81	GLN	CA-C-N	7.37	127.23	119.05
4	BY	81	GLN	C-N-CA	7.37	127.23	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Bn	81	GLN	CA-C-N	7.37	127.23	119.05
4	Bn	81	GLN	C-N-CA	7.37	127.23	119.05
8	C5	88	ASP	N-CA-C	-7.35	103.27	111.28
8	CM	88	ASP	N-CA-C	-7.35	103.27	111.28
8	Cb	88	ASP	N-CA-C	-7.35	103.27	111.28
8	Cq	88	ASP	N-CA-C	-7.35	103.27	111.28
8	C0	12	TYR	N-CA-CB	-7.35	98.07	110.49
8	CH	12	TYR	N-CA-CB	-7.35	98.07	110.49
8	CW	12	TYR	N-CA-CB	-7.35	98.07	110.49
8	Cl	12	TYR	N-CA-CB	-7.35	98.07	110.49
8	C5	12	TYR	N-CA-CB	-7.34	98.09	110.49
8	CM	12	TYR	N-CA-CB	-7.34	98.09	110.49
8	Cb	12	TYR	N-CA-CB	-7.34	98.09	110.49
8	Cq	12	TYR	N-CA-CB	-7.34	98.09	110.49
8	CC	12	TYR	N-CA-CB	-7.34	98.09	110.49
8	CR	12	TYR	N-CA-CB	-7.34	98.09	110.49
8	Cg	12	TYR	N-CA-CB	-7.34	98.09	110.49
8	Cv	12	TYR	N-CA-CB	-7.34	98.09	110.49
8	C0	88	ASP	N-CA-C	-7.33	103.29	111.28
8	CH	88	ASP	N-CA-C	-7.33	103.29	111.28
8	CW	88	ASP	N-CA-C	-7.33	103.29	111.28
8	Cl	88	ASP	N-CA-C	-7.33	103.29	111.28
5	B0	8	GLU	CB-CG-CD	-7.32	100.15	112.60
5	BH	8	GLU	CB-CG-CD	-7.32	100.15	112.60
5	BW	8	GLU	CB-CG-CD	-7.32	100.15	112.60
5	Bl	8	GLU	CB-CG-CD	-7.32	100.15	112.60
8	CC	88	ASP	N-CA-C	-7.31	103.31	111.28
8	CR	88	ASP	N-CA-C	-7.31	103.31	111.28
8	Cg	88	ASP	N-CA-C	-7.31	103.31	111.28
8	Cv	88	ASP	N-CA-C	-7.31	103.31	111.28
5	B5	8	GLU	CB-CG-CD	-7.31	100.17	112.60
5	BM	8	GLU	CB-CG-CD	-7.31	100.17	112.60
5	Bb	8	GLU	CB-CG-CD	-7.31	100.17	112.60
5	Bq	8	GLU	CB-CG-CD	-7.31	100.17	112.60
5	BC	8	GLU	CB-CG-CD	-7.30	100.19	112.60
5	BR	8	GLU	CB-CG-CD	-7.30	100.19	112.60
5	Bg	8	GLU	CB-CG-CD	-7.30	100.19	112.60
5	Bv	8	GLU	CB-CG-CD	-7.30	100.19	112.60
10	C2	70	GLY	N-CA-C	-7.22	104.79	112.08
10	CJ	70	GLY	N-CA-C	-7.22	104.79	112.08
10	CY	70	GLY	N-CA-C	-7.22	104.79	112.08
10	Cn	70	GLY	N-CA-C	-7.22	104.79	112.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	C7	70	GLY	N-CA-C	-7.21	104.80	112.08
10	CO	70	GLY	N-CA-C	-7.21	104.80	112.08
10	Cd	70	GLY	N-CA-C	-7.21	104.80	112.08
10	Cs	70	GLY	N-CA-C	-7.21	104.80	112.08
10	CE	70	GLY	N-CA-C	-7.21	104.80	112.08
10	CT	70	GLY	N-CA-C	-7.21	104.80	112.08
10	Ci	70	GLY	N-CA-C	-7.21	104.80	112.08
10	Cx	70	GLY	N-CA-C	-7.21	104.80	112.08
8	C0	189	GLY	N-CA-C	-7.15	100.70	111.14
8	CH	189	GLY	N-CA-C	-7.15	100.70	111.14
8	CW	189	GLY	N-CA-C	-7.15	100.70	111.14
8	Cl	189	GLY	N-CA-C	-7.15	100.70	111.14
8	C5	189	GLY	N-CA-C	-7.14	100.71	111.14
8	CM	189	GLY	N-CA-C	-7.14	100.71	111.14
8	Cb	189	GLY	N-CA-C	-7.14	100.71	111.14
8	Cq	189	GLY	N-CA-C	-7.14	100.71	111.14
8	CC	189	GLY	N-CA-C	-7.13	100.73	111.14
8	CR	189	GLY	N-CA-C	-7.13	100.73	111.14
8	Cg	189	GLY	N-CA-C	-7.13	100.73	111.14
8	Cv	189	GLY	N-CA-C	-7.13	100.73	111.14
5	B0	105	ASN	CA-CB-CG	-7.12	105.48	112.60
5	BH	105	ASN	CA-CB-CG	-7.12	105.48	112.60
5	BW	105	ASN	CA-CB-CG	-7.12	105.48	112.60
5	Bl	105	ASN	CA-CB-CG	-7.12	105.48	112.60
9	CD	40	LYS	CA-C-N	-7.12	113.14	123.10
9	CD	40	LYS	C-N-CA	-7.12	113.14	123.10
9	CS	40	LYS	CA-C-N	-7.12	113.14	123.10
9	CS	40	LYS	C-N-CA	-7.12	113.14	123.10
9	Ch	40	LYS	CA-C-N	-7.12	113.14	123.10
9	Ch	40	LYS	C-N-CA	-7.12	113.14	123.10
9	Cw	40	LYS	CA-C-N	-7.12	113.14	123.10
9	Cw	40	LYS	C-N-CA	-7.12	113.14	123.10
5	B5	105	ASN	CA-CB-CG	-7.10	105.50	112.60
5	BM	105	ASN	CA-CB-CG	-7.10	105.50	112.60
5	Bb	105	ASN	CA-CB-CG	-7.10	105.50	112.60
5	Bq	105	ASN	CA-CB-CG	-7.10	105.50	112.60
9	C1	40	LYS	CA-C-N	-7.10	113.17	123.10
9	C1	40	LYS	C-N-CA	-7.10	113.17	123.10
9	CI	40	LYS	CA-C-N	-7.10	113.17	123.10
9	CI	40	LYS	C-N-CA	-7.10	113.17	123.10
9	CX	40	LYS	CA-C-N	-7.10	113.17	123.10
9	CX	40	LYS	C-N-CA	-7.10	113.17	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	Cm	40	LYS	CA-C-N	-7.10	113.17	123.10
9	Cm	40	LYS	C-N-CA	-7.10	113.17	123.10
8	CC	71	GLY	CA-C-N	7.09	129.78	120.28
8	CC	71	GLY	C-N-CA	7.09	129.78	120.28
8	CR	71	GLY	CA-C-N	7.09	129.78	120.28
8	CR	71	GLY	C-N-CA	7.09	129.78	120.28
8	Cg	71	GLY	CA-C-N	7.09	129.78	120.28
8	Cg	71	GLY	C-N-CA	7.09	129.78	120.28
8	Cv	71	GLY	CA-C-N	7.09	129.78	120.28
8	Cv	71	GLY	C-N-CA	7.09	129.78	120.28
8	C0	190	TYR	CB-CG-CD2	-7.08	110.17	120.80
8	CC	190	TYR	CB-CG-CD2	-7.08	110.17	120.80
8	CH	190	TYR	CB-CG-CD2	-7.08	110.17	120.80
8	CR	190	TYR	CB-CG-CD2	-7.08	110.17	120.80
8	CW	190	TYR	CB-CG-CD2	-7.08	110.17	120.80
8	Cg	190	TYR	CB-CG-CD2	-7.08	110.17	120.80
8	Cl	190	TYR	CB-CG-CD2	-7.08	110.17	120.80
8	Cv	190	TYR	CB-CG-CD2	-7.08	110.17	120.80
5	BC	105	ASN	CA-CB-CG	-7.08	105.52	112.60
5	BR	105	ASN	CA-CB-CG	-7.08	105.52	112.60
5	Bg	105	ASN	CA-CB-CG	-7.08	105.52	112.60
5	Bv	105	ASN	CA-CB-CG	-7.08	105.52	112.60
8	C0	185	GLY	CA-C-N	7.08	130.34	120.29
8	C0	185	GLY	C-N-CA	7.08	130.34	120.29
8	CH	185	GLY	CA-C-N	7.08	130.34	120.29
8	CH	185	GLY	C-N-CA	7.08	130.34	120.29
8	CW	185	GLY	CA-C-N	7.08	130.34	120.29
8	CW	185	GLY	C-N-CA	7.08	130.34	120.29
8	Cl	185	GLY	CA-C-N	7.08	130.34	120.29
8	Cl	185	GLY	C-N-CA	7.08	130.34	120.29
9	C6	40	LYS	CA-C-N	-7.08	113.19	123.10
9	C6	40	LYS	C-N-CA	-7.08	113.19	123.10
9	CN	40	LYS	CA-C-N	-7.08	113.19	123.10
9	CN	40	LYS	C-N-CA	-7.08	113.19	123.10
9	Cc	40	LYS	CA-C-N	-7.08	113.19	123.10
9	Cc	40	LYS	C-N-CA	-7.08	113.19	123.10
9	Cr	40	LYS	CA-C-N	-7.08	113.19	123.10
9	Cr	40	LYS	C-N-CA	-7.08	113.19	123.10
8	C5	190	TYR	CB-CG-CD2	-7.07	110.19	120.80
8	CM	190	TYR	CB-CG-CD2	-7.07	110.19	120.80
8	Cb	190	TYR	CB-CG-CD2	-7.07	110.19	120.80
8	Cq	190	TYR	CB-CG-CD2	-7.07	110.19	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	C0	71	GLY	CA-C-N	7.07	129.75	120.28
8	C0	71	GLY	C-N-CA	7.07	129.75	120.28
8	CH	71	GLY	CA-C-N	7.07	129.75	120.28
8	CH	71	GLY	C-N-CA	7.07	129.75	120.28
8	CW	71	GLY	CA-C-N	7.07	129.75	120.28
8	CW	71	GLY	C-N-CA	7.07	129.75	120.28
8	Cl	71	GLY	CA-C-N	7.07	129.75	120.28
8	Cl	71	GLY	C-N-CA	7.07	129.75	120.28
8	C5	71	GLY	CA-C-N	7.06	129.75	120.28
8	C5	71	GLY	C-N-CA	7.06	129.75	120.28
8	CM	71	GLY	CA-C-N	7.06	129.75	120.28
8	CM	71	GLY	C-N-CA	7.06	129.75	120.28
8	Cb	71	GLY	CA-C-N	7.06	129.75	120.28
8	Cb	71	GLY	C-N-CA	7.06	129.75	120.28
8	Cq	71	GLY	CA-C-N	7.06	129.75	120.28
8	Cq	71	GLY	C-N-CA	7.06	129.75	120.28
8	C5	185	GLY	CA-C-N	7.06	130.31	120.29
8	C5	185	GLY	C-N-CA	7.06	130.31	120.29
8	CM	185	GLY	CA-C-N	7.06	130.31	120.29
8	CM	185	GLY	C-N-CA	7.06	130.31	120.29
8	Cb	185	GLY	CA-C-N	7.06	130.31	120.29
8	Cb	185	GLY	C-N-CA	7.06	130.31	120.29
8	Cq	185	GLY	CA-C-N	7.06	130.31	120.29
8	Cq	185	GLY	C-N-CA	7.06	130.31	120.29
8	CC	185	GLY	CA-C-N	7.05	130.30	120.29
8	CC	185	GLY	C-N-CA	7.05	130.30	120.29
8	CR	185	GLY	CA-C-N	7.05	130.30	120.29
8	CR	185	GLY	C-N-CA	7.05	130.30	120.29
8	Cg	185	GLY	CA-C-N	7.05	130.30	120.29
8	Cg	185	GLY	C-N-CA	7.05	130.30	120.29
8	Cv	185	GLY	CA-C-N	7.05	130.30	120.29
8	Cv	185	GLY	C-N-CA	7.05	130.30	120.29
9	CD	186	ASP	N-CA-C	-7.02	98.41	109.50
9	CS	186	ASP	N-CA-C	-7.02	98.41	109.50
9	Ch	186	ASP	N-CA-C	-7.02	98.41	109.50
9	Cw	186	ASP	N-CA-C	-7.02	98.41	109.50
9	C1	188	ASP	CA-CB-CG	-7.01	105.59	112.60
9	CI	188	ASP	CA-CB-CG	-7.01	105.59	112.60
9	CX	188	ASP	CA-CB-CG	-7.01	105.59	112.60
9	Cm	188	ASP	CA-CB-CG	-7.01	105.59	112.60
9	C1	186	ASP	N-CA-C	-7.01	98.42	109.50
9	CI	186	ASP	N-CA-C	-7.01	98.42	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	CX	186	ASP	N-CA-C	-7.01	98.42	109.50
9	Cm	186	ASP	N-CA-C	-7.01	98.42	109.50
9	CD	188	ASP	CA-CB-CG	-7.00	105.60	112.60
9	CS	188	ASP	CA-CB-CG	-7.00	105.60	112.60
9	Ch	188	ASP	CA-CB-CG	-7.00	105.60	112.60
9	Cw	188	ASP	CA-CB-CG	-7.00	105.60	112.60
4	B2	143	GLY	N-CA-C	-7.00	105.16	115.72
4	BJ	143	GLY	N-CA-C	-7.00	105.16	115.72
4	BY	143	GLY	N-CA-C	-7.00	105.16	115.72
4	Bn	143	GLY	N-CA-C	-7.00	105.16	115.72
9	C6	186	ASP	N-CA-C	-7.00	98.45	109.50
9	CN	186	ASP	N-CA-C	-7.00	98.45	109.50
9	Cc	186	ASP	N-CA-C	-7.00	98.45	109.50
9	Cr	186	ASP	N-CA-C	-7.00	98.45	109.50
4	BE	143	GLY	N-CA-C	-6.99	105.16	115.72
4	BT	143	GLY	N-CA-C	-6.99	105.16	115.72
4	Bi	143	GLY	N-CA-C	-6.99	105.16	115.72
4	Bx	143	GLY	N-CA-C	-6.99	105.16	115.72
4	B7	143	GLY	N-CA-C	-6.99	105.17	115.72
4	BO	143	GLY	N-CA-C	-6.99	105.17	115.72
4	Bd	143	GLY	N-CA-C	-6.99	105.17	115.72
4	Bs	143	GLY	N-CA-C	-6.99	105.17	115.72
9	C6	188	ASP	CA-CB-CG	-6.99	105.61	112.60
9	CN	188	ASP	CA-CB-CG	-6.99	105.61	112.60
9	Cc	188	ASP	CA-CB-CG	-6.99	105.61	112.60
9	Cr	188	ASP	CA-CB-CG	-6.99	105.61	112.60
10	CE	91	ASN	N-CA-C	-6.96	103.62	111.07
10	CT	91	ASN	N-CA-C	-6.96	103.62	111.07
10	Ci	91	ASN	N-CA-C	-6.96	103.62	111.07
10	Cx	91	ASN	N-CA-C	-6.96	103.62	111.07
10	C7	91	ASN	N-CA-C	-6.95	103.64	111.07
10	CO	91	ASN	N-CA-C	-6.95	103.64	111.07
10	Cd	91	ASN	N-CA-C	-6.95	103.64	111.07
10	Cs	91	ASN	N-CA-C	-6.95	103.64	111.07
10	C2	91	ASN	N-CA-C	-6.95	103.64	111.07
10	CJ	91	ASN	N-CA-C	-6.95	103.64	111.07
10	CY	91	ASN	N-CA-C	-6.95	103.64	111.07
10	Cn	91	ASN	N-CA-C	-6.95	103.64	111.07
4	BF	100	LYS	CA-CB-CG	6.94	127.99	114.10
4	BU	100	LYS	CA-CB-CG	6.94	127.99	114.10
4	Bj	100	LYS	CA-CB-CG	6.94	127.99	114.10
4	By	100	LYS	CA-CB-CG	6.94	127.99	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B3	100	LYS	CA-CB-CG	6.93	127.96	114.10
4	BA	100	LYS	CA-CB-CG	6.93	127.96	114.10
4	BK	100	LYS	CA-CB-CG	6.93	127.96	114.10
4	BP	100	LYS	CA-CB-CG	6.93	127.96	114.10
4	BZ	100	LYS	CA-CB-CG	6.93	127.96	114.10
4	Be	100	LYS	CA-CB-CG	6.93	127.96	114.10
4	Bo	100	LYS	CA-CB-CG	6.93	127.96	114.10
4	Bt	100	LYS	CA-CB-CG	6.93	127.96	114.10
8	C0	156	ASP	CA-CB-CG	-6.92	105.68	112.60
8	CH	156	ASP	CA-CB-CG	-6.92	105.68	112.60
8	CW	156	ASP	CA-CB-CG	-6.92	105.68	112.60
8	Cl	156	ASP	CA-CB-CG	-6.92	105.68	112.60
8	CC	156	ASP	CA-CB-CG	-6.91	105.69	112.60
8	CR	156	ASP	CA-CB-CG	-6.91	105.69	112.60
8	Cg	156	ASP	CA-CB-CG	-6.91	105.69	112.60
8	Cv	156	ASP	CA-CB-CG	-6.91	105.69	112.60
8	C5	156	ASP	CA-CB-CG	-6.91	105.69	112.60
8	CM	156	ASP	CA-CB-CG	-6.91	105.69	112.60
8	Cb	156	ASP	CA-CB-CG	-6.91	105.69	112.60
8	Cq	156	ASP	CA-CB-CG	-6.91	105.69	112.60
8	C0	225	TYR	CA-CB-CG	-6.90	101.47	113.90
8	CH	225	TYR	CA-CB-CG	-6.90	101.47	113.90
8	CW	225	TYR	CA-CB-CG	-6.90	101.47	113.90
8	Cl	225	TYR	CA-CB-CG	-6.90	101.47	113.90
8	CC	225	TYR	CA-CB-CG	-6.89	101.50	113.90
8	CR	225	TYR	CA-CB-CG	-6.89	101.50	113.90
8	Cg	225	TYR	CA-CB-CG	-6.89	101.50	113.90
8	Cv	225	TYR	CA-CB-CG	-6.89	101.50	113.90
8	C5	225	TYR	CA-CB-CG	-6.89	101.50	113.90
8	CM	225	TYR	CA-CB-CG	-6.89	101.50	113.90
8	Cb	225	TYR	CA-CB-CG	-6.89	101.50	113.90
8	Cq	225	TYR	CA-CB-CG	-6.89	101.50	113.90
6	BD	148	LYS	CA-C-N	6.84	129.45	120.28
6	BD	148	LYS	C-N-CA	6.84	129.45	120.28
6	BS	148	LYS	CA-C-N	6.84	129.45	120.28
6	BS	148	LYS	C-N-CA	6.84	129.45	120.28
6	Bh	148	LYS	CA-C-N	6.84	129.45	120.28
6	Bh	148	LYS	C-N-CA	6.84	129.45	120.28
6	Bw	148	LYS	CA-C-N	6.84	129.45	120.28
6	Bw	148	LYS	C-N-CA	6.84	129.45	120.28
5	BC	138	CYS	N-CA-C	6.84	119.74	111.40
5	BR	138	CYS	N-CA-C	6.84	119.74	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Bg	138	CYS	N-CA-C	6.84	119.74	111.40
5	Bv	138	CYS	N-CA-C	6.84	119.74	111.40
5	B5	138	CYS	N-CA-C	6.84	119.74	111.40
4	BA	81	GLN	CA-C-N	6.84	128.38	119.84
4	BA	81	GLN	C-N-CA	6.84	128.38	119.84
5	BM	138	CYS	N-CA-C	6.84	119.74	111.40
4	BP	81	GLN	CA-C-N	6.84	128.38	119.84
4	BP	81	GLN	C-N-CA	6.84	128.38	119.84
5	Bb	138	CYS	N-CA-C	6.84	119.74	111.40
4	Be	81	GLN	CA-C-N	6.84	128.38	119.84
4	Be	81	GLN	C-N-CA	6.84	128.38	119.84
5	Bq	138	CYS	N-CA-C	6.84	119.74	111.40
4	Bt	81	GLN	CA-C-N	6.84	128.38	119.84
4	Bt	81	GLN	C-N-CA	6.84	128.38	119.84
10	CE	87	ASN	CA-C-N	6.84	129.67	120.65
10	CE	87	ASN	C-N-CA	6.84	129.67	120.65
10	CT	87	ASN	CA-C-N	6.84	129.67	120.65
10	CT	87	ASN	C-N-CA	6.84	129.67	120.65
10	Ci	87	ASN	CA-C-N	6.84	129.67	120.65
10	Ci	87	ASN	C-N-CA	6.84	129.67	120.65
10	Cx	87	ASN	CA-C-N	6.84	129.67	120.65
10	Cx	87	ASN	C-N-CA	6.84	129.67	120.65
9	C1	229	ASP	CA-CB-CG	-6.83	105.77	112.60
9	CI	229	ASP	CA-CB-CG	-6.83	105.77	112.60
9	CX	229	ASP	CA-CB-CG	-6.83	105.77	112.60
9	Cm	229	ASP	CA-CB-CG	-6.83	105.77	112.60
9	CD	229	ASP	CA-CB-CG	-6.83	105.77	112.60
9	CS	229	ASP	CA-CB-CG	-6.83	105.77	112.60
9	Ch	229	ASP	CA-CB-CG	-6.83	105.77	112.60
9	Cw	229	ASP	CA-CB-CG	-6.83	105.77	112.60
6	B1	148	LYS	CA-C-N	6.82	129.42	120.28
6	B1	148	LYS	C-N-CA	6.82	129.42	120.28
6	BI	148	LYS	CA-C-N	6.82	129.42	120.28
6	BI	148	LYS	C-N-CA	6.82	129.42	120.28
6	BX	148	LYS	CA-C-N	6.82	129.42	120.28
6	BX	148	LYS	C-N-CA	6.82	129.42	120.28
6	Bm	148	LYS	CA-C-N	6.82	129.42	120.28
6	Bm	148	LYS	C-N-CA	6.82	129.42	120.28
10	C7	87	ASN	CA-C-N	6.82	129.65	120.65
10	C7	87	ASN	C-N-CA	6.82	129.65	120.65
10	CO	87	ASN	CA-C-N	6.82	129.65	120.65
10	CO	87	ASN	C-N-CA	6.82	129.65	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	Cd	87	ASN	CA-C-N	6.82	129.65	120.65
10	Cd	87	ASN	C-N-CA	6.82	129.65	120.65
10	Cs	87	ASN	CA-C-N	6.82	129.65	120.65
10	Cs	87	ASN	C-N-CA	6.82	129.65	120.65
9	C6	229	ASP	CA-CB-CG	-6.82	105.78	112.60
9	CN	229	ASP	CA-CB-CG	-6.82	105.78	112.60
9	Cc	229	ASP	CA-CB-CG	-6.82	105.78	112.60
9	Cr	229	ASP	CA-CB-CG	-6.82	105.78	112.60
10	C2	87	ASN	CA-C-N	6.82	129.65	120.65
10	C2	87	ASN	C-N-CA	6.82	129.65	120.65
10	CJ	87	ASN	CA-C-N	6.82	129.65	120.65
10	CJ	87	ASN	C-N-CA	6.82	129.65	120.65
10	CY	87	ASN	CA-C-N	6.82	129.65	120.65
10	CY	87	ASN	C-N-CA	6.82	129.65	120.65
10	Cn	87	ASN	CA-C-N	6.82	129.65	120.65
10	Cn	87	ASN	C-N-CA	6.82	129.65	120.65
4	B2	81	GLN	CA-C-O	6.81	125.24	119.66
4	BJ	81	GLN	CA-C-O	6.81	125.24	119.66
4	BY	81	GLN	CA-C-O	6.81	125.24	119.66
4	Bn	81	GLN	CA-C-O	6.81	125.24	119.66
6	B6	148	LYS	CA-C-N	6.80	129.40	120.28
6	B6	148	LYS	C-N-CA	6.80	129.40	120.28
6	BN	148	LYS	CA-C-N	6.80	129.40	120.28
6	BN	148	LYS	C-N-CA	6.80	129.40	120.28
6	Bc	148	LYS	CA-C-N	6.80	129.40	120.28
6	Bc	148	LYS	C-N-CA	6.80	129.40	120.28
6	Br	148	LYS	CA-C-N	6.80	129.40	120.28
6	Br	148	LYS	C-N-CA	6.80	129.40	120.28
5	B0	138	CYS	N-CA-C	6.80	119.70	111.40
5	BH	138	CYS	N-CA-C	6.80	119.70	111.40
5	BW	138	CYS	N-CA-C	6.80	119.70	111.40
5	Bl	138	CYS	N-CA-C	6.80	119.70	111.40
4	BE	81	GLN	CA-C-O	6.80	125.23	119.66
4	BT	81	GLN	CA-C-O	6.80	125.23	119.66
4	Bi	81	GLN	CA-C-O	6.80	125.23	119.66
4	Bx	81	GLN	CA-C-O	6.80	125.23	119.66
9	C6	140	PHE	CB-CA-C	-6.79	97.62	110.67
9	CN	140	PHE	CB-CA-C	-6.79	97.62	110.67
9	Cc	140	PHE	CB-CA-C	-6.79	97.62	110.67
9	Cr	140	PHE	CB-CA-C	-6.79	97.62	110.67
4	B7	81	GLN	CA-C-O	6.79	125.23	119.66
4	BO	81	GLN	CA-C-O	6.79	125.23	119.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Bd	81	GLN	CA-C-O	6.79	125.23	119.66
4	Bs	81	GLN	CA-C-O	6.79	125.23	119.66
9	C1	140	PHE	CB-CA-C	-6.79	97.64	110.67
9	CI	140	PHE	CB-CA-C	-6.79	97.64	110.67
9	CX	140	PHE	CB-CA-C	-6.79	97.64	110.67
9	Cm	140	PHE	CB-CA-C	-6.79	97.64	110.67
9	CD	140	PHE	CB-CA-C	-6.78	97.64	110.67
9	CS	140	PHE	CB-CA-C	-6.78	97.64	110.67
9	Ch	140	PHE	CB-CA-C	-6.78	97.64	110.67
9	Cw	140	PHE	CB-CA-C	-6.78	97.64	110.67
10	CE	195	TYR	N-CA-C	-6.78	103.82	111.14
10	CT	195	TYR	N-CA-C	-6.78	103.82	111.14
10	Ci	195	TYR	N-CA-C	-6.78	103.82	111.14
10	Cx	195	TYR	N-CA-C	-6.78	103.82	111.14
10	C2	195	TYR	N-CA-C	-6.77	103.83	111.14
10	CJ	195	TYR	N-CA-C	-6.77	103.83	111.14
10	CY	195	TYR	N-CA-C	-6.77	103.83	111.14
10	Cn	195	TYR	N-CA-C	-6.77	103.83	111.14
10	CE	81	PHE	CA-CB-CG	-6.76	107.04	113.80
10	CT	81	PHE	CA-CB-CG	-6.76	107.04	113.80
10	Ci	81	PHE	CA-CB-CG	-6.76	107.04	113.80
10	Cx	81	PHE	CA-CB-CG	-6.76	107.04	113.80
10	C7	195	TYR	N-CA-C	-6.75	103.85	111.14
10	CO	195	TYR	N-CA-C	-6.75	103.85	111.14
10	Cd	195	TYR	N-CA-C	-6.75	103.85	111.14
10	Cs	195	TYR	N-CA-C	-6.75	103.85	111.14
9	CD	174	PHE	CA-CB-CG	-6.75	107.05	113.80
9	CS	174	PHE	CA-CB-CG	-6.75	107.05	113.80
9	Ch	174	PHE	CA-CB-CG	-6.75	107.05	113.80
9	Cw	174	PHE	CA-CB-CG	-6.75	107.05	113.80
10	C2	81	PHE	CA-CB-CG	-6.75	107.06	113.80
10	CJ	81	PHE	CA-CB-CG	-6.75	107.06	113.80
10	CY	81	PHE	CA-CB-CG	-6.75	107.06	113.80
10	Cn	81	PHE	CA-CB-CG	-6.75	107.06	113.80
9	C1	174	PHE	CA-CB-CG	-6.74	107.06	113.80
9	CI	174	PHE	CA-CB-CG	-6.74	107.06	113.80
9	CX	174	PHE	CA-CB-CG	-6.74	107.06	113.80
9	Cm	174	PHE	CA-CB-CG	-6.74	107.06	113.80
10	C7	81	PHE	CA-CB-CG	-6.73	107.07	113.80
10	CO	81	PHE	CA-CB-CG	-6.73	107.07	113.80
10	Cd	81	PHE	CA-CB-CG	-6.73	107.07	113.80
10	Cs	81	PHE	CA-CB-CG	-6.73	107.07	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	C1	197	PHE	CA-C-N	6.73	134.39	121.54
9	C1	197	PHE	C-N-CA	6.73	134.39	121.54
9	CI	197	PHE	CA-C-N	6.73	134.39	121.54
9	CI	197	PHE	C-N-CA	6.73	134.39	121.54
9	CX	197	PHE	CA-C-N	6.73	134.39	121.54
9	CX	197	PHE	C-N-CA	6.73	134.39	121.54
9	Cm	197	PHE	CA-C-N	6.73	134.39	121.54
9	Cm	197	PHE	C-N-CA	6.73	134.39	121.54
4	B7	98	GLY	N-CA-C	-6.72	106.39	113.58
4	BO	98	GLY	N-CA-C	-6.72	106.39	113.58
4	Bd	98	GLY	N-CA-C	-6.72	106.39	113.58
4	Bs	98	GLY	N-CA-C	-6.72	106.39	113.58
8	C0	196	PHE	N-CA-CB	-6.72	100.27	110.01
8	CH	196	PHE	N-CA-CB	-6.72	100.27	110.01
8	CW	196	PHE	N-CA-CB	-6.72	100.27	110.01
8	Cl	196	PHE	N-CA-CB	-6.72	100.27	110.01
9	C6	174	PHE	CA-CB-CG	-6.71	107.09	113.80
9	CN	174	PHE	CA-CB-CG	-6.71	107.09	113.80
9	Cc	174	PHE	CA-CB-CG	-6.71	107.09	113.80
9	Cr	174	PHE	CA-CB-CG	-6.71	107.09	113.80
9	CD	197	PHE	CA-C-N	6.71	134.35	121.54
9	CD	197	PHE	C-N-CA	6.71	134.35	121.54
9	CS	197	PHE	CA-C-N	6.71	134.35	121.54
9	CS	197	PHE	C-N-CA	6.71	134.35	121.54
9	Ch	197	PHE	CA-C-N	6.71	134.35	121.54
9	Ch	197	PHE	C-N-CA	6.71	134.35	121.54
9	Cw	197	PHE	CA-C-N	6.71	134.35	121.54
9	Cw	197	PHE	C-N-CA	6.71	134.35	121.54
4	B2	98	GLY	N-CA-C	-6.70	106.41	113.58
4	BJ	98	GLY	N-CA-C	-6.70	106.41	113.58
4	BY	98	GLY	N-CA-C	-6.70	106.41	113.58
4	Bn	98	GLY	N-CA-C	-6.70	106.41	113.58
8	C5	196	PHE	N-CA-CB	-6.70	100.29	110.01
8	CM	196	PHE	N-CA-CB	-6.70	100.29	110.01
8	Cb	196	PHE	N-CA-CB	-6.70	100.29	110.01
8	Cq	196	PHE	N-CA-CB	-6.70	100.29	110.01
4	AG	79	LEU	CB-CA-C	-6.70	99.29	110.68
4	AV	79	LEU	CB-CA-C	-6.70	99.29	110.68
4	Ak	79	LEU	CB-CA-C	-6.70	99.29	110.68
4	Az	79	LEU	CB-CA-C	-6.70	99.29	110.68
4	BE	98	GLY	N-CA-C	-6.70	106.41	113.58
4	BT	98	GLY	N-CA-C	-6.70	106.41	113.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Bi	98	GLY	N-CA-C	-6.70	106.41	113.58
4	Bx	98	GLY	N-CA-C	-6.70	106.41	113.58
9	C6	93	HIS	CA-C-N	6.70	129.26	120.28
9	C6	93	HIS	C-N-CA	6.70	129.26	120.28
9	CN	93	HIS	CA-C-N	6.70	129.26	120.28
9	CN	93	HIS	C-N-CA	6.70	129.26	120.28
9	Cc	93	HIS	CA-C-N	6.70	129.26	120.28
9	Cc	93	HIS	C-N-CA	6.70	129.26	120.28
9	Cr	93	HIS	CA-C-N	6.70	129.26	120.28
9	Cr	93	HIS	C-N-CA	6.70	129.26	120.28
4	A4	79	LEU	CB-CA-C	-6.70	99.29	110.68
4	AL	79	LEU	CB-CA-C	-6.70	99.29	110.68
4	Aa	79	LEU	CB-CA-C	-6.70	99.29	110.68
4	Ap	79	LEU	CB-CA-C	-6.70	99.29	110.68
9	CD	93	HIS	CA-C-N	6.70	129.25	120.28
9	CD	93	HIS	C-N-CA	6.70	129.25	120.28
9	CS	93	HIS	CA-C-N	6.70	129.25	120.28
9	CS	93	HIS	C-N-CA	6.70	129.25	120.28
9	Ch	93	HIS	CA-C-N	6.70	129.25	120.28
9	Ch	93	HIS	C-N-CA	6.70	129.25	120.28
9	Cw	93	HIS	CA-C-N	6.70	129.25	120.28
9	Cw	93	HIS	C-N-CA	6.70	129.25	120.28
9	C6	197	PHE	CA-C-N	6.70	134.33	121.54
9	C6	197	PHE	C-N-CA	6.70	134.33	121.54
9	CN	197	PHE	CA-C-N	6.70	134.33	121.54
9	CN	197	PHE	C-N-CA	6.70	134.33	121.54
9	Cc	197	PHE	CA-C-N	6.70	134.33	121.54
9	Cc	197	PHE	C-N-CA	6.70	134.33	121.54
9	Cr	197	PHE	CA-C-N	6.70	134.33	121.54
9	Cr	197	PHE	C-N-CA	6.70	134.33	121.54
4	AB	79	LEU	CB-CA-C	-6.69	99.31	110.68
4	AQ	79	LEU	CB-CA-C	-6.69	99.31	110.68
4	Af	79	LEU	CB-CA-C	-6.69	99.31	110.68
4	Au	79	LEU	CB-CA-C	-6.69	99.31	110.68
8	CC	196	PHE	N-CA-CB	-6.68	100.33	110.01
8	CR	196	PHE	N-CA-CB	-6.68	100.33	110.01
8	Cg	196	PHE	N-CA-CB	-6.68	100.33	110.01
8	Cv	196	PHE	N-CA-CB	-6.68	100.33	110.01
9	C1	93	HIS	CA-C-N	6.68	129.23	120.28
9	C1	93	HIS	C-N-CA	6.68	129.23	120.28
9	CI	93	HIS	CA-C-N	6.68	129.23	120.28
9	CI	93	HIS	C-N-CA	6.68	129.23	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	CX	93	HIS	CA-C-N	6.68	129.23	120.28
9	CX	93	HIS	C-N-CA	6.68	129.23	120.28
9	Cm	93	HIS	CA-C-N	6.68	129.23	120.28
9	Cm	93	HIS	C-N-CA	6.68	129.23	120.28
8	C5	156	ASP	CB-CA-C	-6.65	95.83	110.67
8	CM	156	ASP	CB-CA-C	-6.65	95.83	110.67
8	Cb	156	ASP	CB-CA-C	-6.65	95.83	110.67
8	Cq	156	ASP	CB-CA-C	-6.65	95.83	110.67
8	CC	156	ASP	CB-CA-C	-6.65	95.84	110.67
10	CE	196	ASN	CA-CB-CG	6.65	119.25	112.60
8	CR	156	ASP	CB-CA-C	-6.65	95.84	110.67
10	CT	196	ASN	CA-CB-CG	6.65	119.25	112.60
8	Cg	156	ASP	CB-CA-C	-6.65	95.84	110.67
10	Ci	196	ASN	CA-CB-CG	6.65	119.25	112.60
8	Cv	156	ASP	CB-CA-C	-6.65	95.84	110.67
10	Cx	196	ASN	CA-CB-CG	6.65	119.25	112.60
10	CE	11	ASP	CA-CB-CG	-6.65	105.95	112.60
10	CT	11	ASP	CA-CB-CG	-6.65	105.95	112.60
10	Ci	11	ASP	CA-CB-CG	-6.65	105.95	112.60
10	Cx	11	ASP	CA-CB-CG	-6.65	105.95	112.60
8	C0	225	TYR	N-CA-CB	6.65	121.80	110.50
8	CH	225	TYR	N-CA-CB	6.65	121.80	110.50
8	CW	225	TYR	N-CA-CB	6.65	121.80	110.50
8	Cl	225	TYR	N-CA-CB	6.65	121.80	110.50
8	C0	156	ASP	CB-CA-C	-6.64	95.86	110.67
10	C7	196	ASN	CA-CB-CG	6.64	119.24	112.60
8	CH	156	ASP	CB-CA-C	-6.64	95.86	110.67
10	CO	196	ASN	CA-CB-CG	6.64	119.24	112.60
8	CW	156	ASP	CB-CA-C	-6.64	95.86	110.67
10	Cd	196	ASN	CA-CB-CG	6.64	119.24	112.60
8	Cl	156	ASP	CB-CA-C	-6.64	95.86	110.67
10	Cs	196	ASN	CA-CB-CG	6.64	119.24	112.60
10	C2	196	ASN	CA-CB-CG	6.64	119.24	112.60
5	CB	146	ILE	N-CA-C	-6.64	104.02	110.72
10	CJ	196	ASN	CA-CB-CG	6.64	119.24	112.60
5	CQ	146	ILE	N-CA-C	-6.64	104.02	110.72
10	CY	196	ASN	CA-CB-CG	6.64	119.24	112.60
5	Cf	146	ILE	N-CA-C	-6.64	104.02	110.72
10	Cn	196	ASN	CA-CB-CG	6.64	119.24	112.60
5	Cu	146	ILE	N-CA-C	-6.64	104.02	110.72
8	C0	9	ARG	CD-NE-CZ	-6.63	115.11	124.40
8	CH	9	ARG	CD-NE-CZ	-6.63	115.11	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	CW	9	ARG	CD-NE-CZ	-6.63	115.11	124.40
8	Cl	9	ARG	CD-NE-CZ	-6.63	115.11	124.40
8	CC	9	ARG	CD-NE-CZ	-6.63	115.12	124.40
8	CR	9	ARG	CD-NE-CZ	-6.63	115.12	124.40
8	Cg	9	ARG	CD-NE-CZ	-6.63	115.12	124.40
8	Cv	9	ARG	CD-NE-CZ	-6.63	115.12	124.40
8	CC	225	TYR	N-CA-CB	6.63	121.77	110.50
8	CR	225	TYR	N-CA-CB	6.63	121.77	110.50
8	Cg	225	TYR	N-CA-CB	6.63	121.77	110.50
8	Cv	225	TYR	N-CA-CB	6.63	121.77	110.50
5	C4	146	ILE	N-CA-C	-6.63	104.03	110.72
5	CL	146	ILE	N-CA-C	-6.63	104.03	110.72
5	Ca	146	ILE	N-CA-C	-6.63	104.03	110.72
5	Cp	146	ILE	N-CA-C	-6.63	104.03	110.72
7	BB	7	CYS	N-CA-C	-6.62	96.70	110.80
7	BQ	7	CYS	N-CA-C	-6.62	96.70	110.80
7	Bf	7	CYS	N-CA-C	-6.62	96.70	110.80
7	Bu	7	CYS	N-CA-C	-6.62	96.70	110.80
8	C5	225	TYR	N-CA-CB	6.62	121.75	110.50
8	CM	225	TYR	N-CA-CB	6.62	121.75	110.50
8	Cb	225	TYR	N-CA-CB	6.62	121.75	110.50
8	Cq	225	TYR	N-CA-CB	6.62	121.75	110.50
7	B4	7	CYS	N-CA-C	-6.62	96.71	110.80
7	BL	7	CYS	N-CA-C	-6.62	96.71	110.80
7	Ba	7	CYS	N-CA-C	-6.62	96.71	110.80
7	Bp	7	CYS	N-CA-C	-6.62	96.71	110.80
8	C5	9	ARG	CD-NE-CZ	-6.62	115.14	124.40
5	CG	146	ILE	N-CA-C	-6.62	104.04	110.72
8	CM	9	ARG	CD-NE-CZ	-6.62	115.14	124.40
5	CV	146	ILE	N-CA-C	-6.62	104.04	110.72
8	Cb	9	ARG	CD-NE-CZ	-6.62	115.14	124.40
5	Ck	146	ILE	N-CA-C	-6.62	104.04	110.72
8	Cq	9	ARG	CD-NE-CZ	-6.62	115.14	124.40
5	Cz	146	ILE	N-CA-C	-6.62	104.04	110.72
8	CC	159	ASP	N-CA-C	-6.61	104.07	111.28
8	CR	159	ASP	N-CA-C	-6.61	104.07	111.28
8	Cg	159	ASP	N-CA-C	-6.61	104.07	111.28
8	Cv	159	ASP	N-CA-C	-6.61	104.07	111.28
8	C5	159	ASP	N-CA-C	-6.61	104.07	111.28
8	CM	159	ASP	N-CA-C	-6.61	104.07	111.28
8	Cb	159	ASP	N-CA-C	-6.61	104.07	111.28
8	Cq	159	ASP	N-CA-C	-6.61	104.07	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	BG	7	CYS	N-CA-C	-6.61	96.73	110.80
7	BV	7	CYS	N-CA-C	-6.61	96.73	110.80
7	Bk	7	CYS	N-CA-C	-6.61	96.73	110.80
7	Bz	7	CYS	N-CA-C	-6.61	96.73	110.80
10	C7	11	ASP	CA-CB-CG	-6.60	106.00	112.60
10	CO	11	ASP	CA-CB-CG	-6.60	106.00	112.60
10	Cd	11	ASP	CA-CB-CG	-6.60	106.00	112.60
10	Cs	11	ASP	CA-CB-CG	-6.60	106.00	112.60
10	C2	11	ASP	CA-CB-CG	-6.60	106.00	112.60
10	CJ	11	ASP	CA-CB-CG	-6.60	106.00	112.60
10	CY	11	ASP	CA-CB-CG	-6.60	106.00	112.60
10	Cn	11	ASP	CA-CB-CG	-6.60	106.00	112.60
6	B6	150	LEU	N-CA-C	-6.59	103.80	113.16
6	BN	150	LEU	N-CA-C	-6.59	103.80	113.16
6	Bc	150	LEU	N-CA-C	-6.59	103.80	113.16
6	Br	150	LEU	N-CA-C	-6.59	103.80	113.16
8	C0	190	TYR	CB-CA-C	-6.59	96.88	109.66
8	CH	190	TYR	CB-CA-C	-6.59	96.88	109.66
8	CW	190	TYR	CB-CA-C	-6.59	96.88	109.66
8	Cl	190	TYR	CB-CA-C	-6.59	96.88	109.66
6	B1	150	LEU	N-CA-C	-6.58	103.81	113.16
6	BI	150	LEU	N-CA-C	-6.58	103.81	113.16
6	BX	150	LEU	N-CA-C	-6.58	103.81	113.16
6	Bm	150	LEU	N-CA-C	-6.58	103.81	113.16
8	C0	159	ASP	N-CA-C	-6.58	104.11	111.28
8	CH	159	ASP	N-CA-C	-6.58	104.11	111.28
8	CW	159	ASP	N-CA-C	-6.58	104.11	111.28
8	Cl	159	ASP	N-CA-C	-6.58	104.11	111.28
6	BD	150	LEU	N-CA-C	-6.57	103.83	113.16
6	BS	150	LEU	N-CA-C	-6.57	103.83	113.16
6	Bh	150	LEU	N-CA-C	-6.57	103.83	113.16
6	Bw	150	LEU	N-CA-C	-6.57	103.83	113.16
8	C5	190	TYR	CB-CA-C	-6.57	96.91	109.66
8	CM	190	TYR	CB-CA-C	-6.57	96.91	109.66
8	Cb	190	TYR	CB-CA-C	-6.57	96.91	109.66
8	Cq	190	TYR	CB-CA-C	-6.57	96.91	109.66
8	CC	190	TYR	CB-CA-C	-6.57	96.92	109.66
8	CR	190	TYR	CB-CA-C	-6.57	96.92	109.66
8	Cg	190	TYR	CB-CA-C	-6.57	96.92	109.66
8	Cv	190	TYR	CB-CA-C	-6.57	96.92	109.66
10	CE	81	PHE	N-CA-C	6.57	118.23	111.14
10	CT	81	PHE	N-CA-C	6.57	118.23	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	Ci	81	PHE	N-CA-C	6.57	118.23	111.14
10	Cx	81	PHE	N-CA-C	6.57	118.23	111.14
4	B3	100	LYS	CB-CA-C	6.55	121.16	109.38
4	BK	100	LYS	CB-CA-C	6.55	121.16	109.38
4	BZ	100	LYS	CB-CA-C	6.55	121.16	109.38
4	Bo	100	LYS	CB-CA-C	6.55	121.16	109.38
10	C7	81	PHE	N-CA-C	6.54	118.21	111.14
10	CO	81	PHE	N-CA-C	6.54	118.21	111.14
10	Cd	81	PHE	N-CA-C	6.54	118.21	111.14
10	Cs	81	PHE	N-CA-C	6.54	118.21	111.14
10	C2	81	PHE	N-CA-C	6.54	118.20	111.14
10	CJ	81	PHE	N-CA-C	6.54	118.20	111.14
10	CY	81	PHE	N-CA-C	6.54	118.20	111.14
10	Cn	81	PHE	N-CA-C	6.54	118.20	111.14
4	BF	100	LYS	CB-CA-C	6.54	121.14	109.38
4	BU	100	LYS	CB-CA-C	6.54	121.14	109.38
4	Bj	100	LYS	CB-CA-C	6.54	121.14	109.38
4	By	100	LYS	CB-CA-C	6.54	121.14	109.38
10	C7	82	VAL	CA-C-N	6.53	133.46	121.70
10	C7	82	VAL	C-N-CA	6.53	133.46	121.70
10	CO	82	VAL	CA-C-N	6.53	133.46	121.70
10	CO	82	VAL	C-N-CA	6.53	133.46	121.70
10	Cd	82	VAL	CA-C-N	6.53	133.46	121.70
10	Cd	82	VAL	C-N-CA	6.53	133.46	121.70
10	Cs	82	VAL	CA-C-N	6.53	133.46	121.70
10	Cs	82	VAL	C-N-CA	6.53	133.46	121.70
4	BF	101	ILE	CA-C-N	6.53	126.29	119.76
4	BF	101	ILE	C-N-CA	6.53	126.29	119.76
4	BU	101	ILE	CA-C-N	6.53	126.29	119.76
4	BU	101	ILE	C-N-CA	6.53	126.29	119.76
4	Bj	101	ILE	CA-C-N	6.53	126.29	119.76
4	Bj	101	ILE	C-N-CA	6.53	126.29	119.76
4	By	101	ILE	CA-C-N	6.53	126.29	119.76
4	By	101	ILE	C-N-CA	6.53	126.29	119.76
4	BA	100	LYS	CB-CA-C	6.52	121.12	109.38
4	BA	101	ILE	CA-C-N	6.52	126.28	119.76
4	BA	101	ILE	C-N-CA	6.52	126.28	119.76
4	BP	100	LYS	CB-CA-C	6.52	121.12	109.38
4	BP	101	ILE	CA-C-N	6.52	126.28	119.76
4	BP	101	ILE	C-N-CA	6.52	126.28	119.76
4	Be	100	LYS	CB-CA-C	6.52	121.12	109.38
4	Be	101	ILE	CA-C-N	6.52	126.28	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Be	101	ILE	C-N-CA	6.52	126.28	119.76
4	Bt	100	LYS	CB-CA-C	6.52	121.12	109.38
4	Bt	101	ILE	CA-C-N	6.52	126.28	119.76
4	Bt	101	ILE	C-N-CA	6.52	126.28	119.76
10	C2	82	VAL	CA-C-N	6.52	133.44	121.70
10	C2	82	VAL	C-N-CA	6.52	133.44	121.70
10	CJ	82	VAL	CA-C-N	6.52	133.44	121.70
10	CJ	82	VAL	C-N-CA	6.52	133.44	121.70
10	CY	82	VAL	CA-C-N	6.52	133.44	121.70
10	CY	82	VAL	C-N-CA	6.52	133.44	121.70
10	Cn	82	VAL	CA-C-N	6.52	133.44	121.70
10	Cn	82	VAL	C-N-CA	6.52	133.44	121.70
4	B3	101	ILE	CA-C-N	6.51	126.27	119.76
4	B3	101	ILE	C-N-CA	6.51	126.27	119.76
4	BK	101	ILE	CA-C-N	6.51	126.27	119.76
4	BK	101	ILE	C-N-CA	6.51	126.27	119.76
4	BZ	101	ILE	CA-C-N	6.51	126.27	119.76
4	BZ	101	ILE	C-N-CA	6.51	126.27	119.76
4	Bo	101	ILE	CA-C-N	6.51	126.27	119.76
4	Bo	101	ILE	C-N-CA	6.51	126.27	119.76
10	CE	82	VAL	CA-C-N	6.49	133.38	121.70
10	CE	82	VAL	C-N-CA	6.49	133.38	121.70
10	CT	82	VAL	CA-C-N	6.49	133.38	121.70
10	CT	82	VAL	C-N-CA	6.49	133.38	121.70
10	Ci	82	VAL	CA-C-N	6.49	133.38	121.70
10	Ci	82	VAL	C-N-CA	6.49	133.38	121.70
10	Cx	82	VAL	CA-C-N	6.49	133.38	121.70
10	Cx	82	VAL	C-N-CA	6.49	133.38	121.70
1	A0	5	HIS	N-CA-C	-6.44	104.18	111.07
1	AH	5	HIS	N-CA-C	-6.44	104.18	111.07
1	AW	5	HIS	N-CA-C	-6.44	104.18	111.07
1	Al	5	HIS	N-CA-C	-6.44	104.18	111.07
8	C0	96	ASP	CA-C-N	6.44	126.19	119.05
8	C0	96	ASP	C-N-CA	6.44	126.19	119.05
8	CH	96	ASP	CA-C-N	6.44	126.19	119.05
8	CH	96	ASP	C-N-CA	6.44	126.19	119.05
8	CW	96	ASP	CA-C-N	6.44	126.19	119.05
8	CW	96	ASP	C-N-CA	6.44	126.19	119.05
8	Cl	96	ASP	CA-C-N	6.44	126.19	119.05
8	Cl	96	ASP	C-N-CA	6.44	126.19	119.05
8	CC	96	ASP	CA-C-N	6.43	126.19	119.05
8	CC	96	ASP	C-N-CA	6.43	126.19	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	CR	96	ASP	CA-C-N	6.43	126.19	119.05
8	CR	96	ASP	C-N-CA	6.43	126.19	119.05
8	Cg	96	ASP	CA-C-N	6.43	126.19	119.05
8	Cg	96	ASP	C-N-CA	6.43	126.19	119.05
8	Cv	96	ASP	CA-C-N	6.43	126.19	119.05
8	Cv	96	ASP	C-N-CA	6.43	126.19	119.05
1	AC	5	HIS	N-CA-C	-6.41	104.21	111.07
1	AR	5	HIS	N-CA-C	-6.41	104.21	111.07
1	Ag	5	HIS	N-CA-C	-6.41	104.21	111.07
1	Av	5	HIS	N-CA-C	-6.41	104.21	111.07
8	CC	173	PHE	CB-CA-C	-6.41	100.82	110.88
8	CR	173	PHE	CB-CA-C	-6.41	100.82	110.88
8	Cg	173	PHE	CB-CA-C	-6.41	100.82	110.88
8	Cv	173	PHE	CB-CA-C	-6.41	100.82	110.88
1	A5	5	HIS	N-CA-C	-6.41	104.22	111.07
1	AM	5	HIS	N-CA-C	-6.41	104.22	111.07
1	Ab	5	HIS	N-CA-C	-6.41	104.22	111.07
1	Aq	5	HIS	N-CA-C	-6.41	104.22	111.07
8	C5	173	PHE	CB-CA-C	-6.41	100.82	110.88
8	CM	173	PHE	CB-CA-C	-6.41	100.82	110.88
8	Cb	173	PHE	CB-CA-C	-6.41	100.82	110.88
8	Cq	173	PHE	CB-CA-C	-6.41	100.82	110.88
8	C0	173	PHE	CB-CA-C	-6.41	100.82	110.88
8	CH	173	PHE	CB-CA-C	-6.41	100.82	110.88
8	CW	173	PHE	CB-CA-C	-6.41	100.82	110.88
8	Cl	173	PHE	CB-CA-C	-6.41	100.82	110.88
8	C5	96	ASP	CA-C-N	6.40	126.15	119.05
8	C5	96	ASP	C-N-CA	6.40	126.15	119.05
8	CM	96	ASP	CA-C-N	6.40	126.15	119.05
8	CM	96	ASP	C-N-CA	6.40	126.15	119.05
8	Cb	96	ASP	CA-C-N	6.40	126.15	119.05
8	Cb	96	ASP	C-N-CA	6.40	126.15	119.05
8	Cq	96	ASP	CA-C-N	6.40	126.15	119.05
8	Cq	96	ASP	C-N-CA	6.40	126.15	119.05
10	C2	62	CYS	CA-C-N	-6.39	109.94	122.02
10	C2	62	CYS	C-N-CA	-6.39	109.94	122.02
10	CJ	62	CYS	CA-C-N	-6.39	109.94	122.02
10	CJ	62	CYS	C-N-CA	-6.39	109.94	122.02
10	CY	62	CYS	CA-C-N	-6.39	109.94	122.02
10	CY	62	CYS	C-N-CA	-6.39	109.94	122.02
10	Cn	62	CYS	CA-C-N	-6.39	109.94	122.02
10	Cn	62	CYS	C-N-CA	-6.39	109.94	122.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	C7	62	CYS	CA-C-N	-6.38	109.96	122.02
10	C7	62	CYS	C-N-CA	-6.38	109.96	122.02
10	CO	62	CYS	CA-C-N	-6.38	109.96	122.02
10	CO	62	CYS	C-N-CA	-6.38	109.96	122.02
10	Cd	62	CYS	CA-C-N	-6.38	109.96	122.02
10	Cd	62	CYS	C-N-CA	-6.38	109.96	122.02
10	Cs	62	CYS	CA-C-N	-6.38	109.96	122.02
10	Cs	62	CYS	C-N-CA	-6.38	109.96	122.02
8	C0	101	SER	CA-C-N	6.37	129.11	120.44
8	C0	101	SER	C-N-CA	6.37	129.11	120.44
10	C2	137	PHE	CA-C-N	-6.37	114.56	122.84
10	C2	137	PHE	C-N-CA	-6.37	114.56	122.84
8	CH	101	SER	CA-C-N	6.37	129.11	120.44
8	CH	101	SER	C-N-CA	6.37	129.11	120.44
10	CJ	137	PHE	CA-C-N	-6.37	114.56	122.84
10	CJ	137	PHE	C-N-CA	-6.37	114.56	122.84
8	CW	101	SER	CA-C-N	6.37	129.11	120.44
8	CW	101	SER	C-N-CA	6.37	129.11	120.44
10	CY	137	PHE	CA-C-N	-6.37	114.56	122.84
10	CY	137	PHE	C-N-CA	-6.37	114.56	122.84
8	Cl	101	SER	CA-C-N	6.37	129.11	120.44
8	Cl	101	SER	C-N-CA	6.37	129.11	120.44
10	Cn	137	PHE	CA-C-N	-6.37	114.56	122.84
10	Cn	137	PHE	C-N-CA	-6.37	114.56	122.84
10	CE	62	CYS	CA-C-N	-6.37	109.98	122.02
10	CE	62	CYS	C-N-CA	-6.37	109.98	122.02
10	CT	62	CYS	CA-C-N	-6.37	109.98	122.02
10	CT	62	CYS	C-N-CA	-6.37	109.98	122.02
10	Ci	62	CYS	CA-C-N	-6.37	109.98	122.02
10	Ci	62	CYS	C-N-CA	-6.37	109.98	122.02
10	Cx	62	CYS	CA-C-N	-6.37	109.98	122.02
10	Cx	62	CYS	C-N-CA	-6.37	109.98	122.02
8	C5	101	SER	CA-C-N	6.36	129.08	120.44
8	C5	101	SER	C-N-CA	6.36	129.08	120.44
8	CM	101	SER	CA-C-N	6.36	129.08	120.44
8	CM	101	SER	C-N-CA	6.36	129.08	120.44
8	Cb	101	SER	CA-C-N	6.36	129.08	120.44
8	Cb	101	SER	C-N-CA	6.36	129.08	120.44
8	Cq	101	SER	CA-C-N	6.36	129.08	120.44
8	Cq	101	SER	C-N-CA	6.36	129.08	120.44
8	CC	101	SER	CA-C-N	6.35	129.08	120.44
8	CC	101	SER	C-N-CA	6.35	129.08	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	CR	101	SER	CA-C-N	6.35	129.08	120.44
8	CR	101	SER	C-N-CA	6.35	129.08	120.44
8	Cg	101	SER	CA-C-N	6.35	129.08	120.44
8	Cg	101	SER	C-N-CA	6.35	129.08	120.44
8	Cv	101	SER	CA-C-N	6.35	129.08	120.44
8	Cv	101	SER	C-N-CA	6.35	129.08	120.44
9	C1	87	LYS	CB-CA-C	-6.34	99.75	109.89
9	CI	87	LYS	CB-CA-C	-6.34	99.75	109.89
9	CX	87	LYS	CB-CA-C	-6.34	99.75	109.89
9	Cm	87	LYS	CB-CA-C	-6.34	99.75	109.89
9	C6	108	GLY	N-CA-C	-6.34	106.33	115.27
9	CN	108	GLY	N-CA-C	-6.34	106.33	115.27
9	Cc	108	GLY	N-CA-C	-6.34	106.33	115.27
9	Cr	108	GLY	N-CA-C	-6.34	106.33	115.27
9	C1	42	ASP	CA-C-O	6.33	124.00	119.32
9	CI	42	ASP	CA-C-O	6.33	124.00	119.32
9	CX	42	ASP	CA-C-O	6.33	124.00	119.32
9	Cm	42	ASP	CA-C-O	6.33	124.00	119.32
9	CD	87	LYS	CB-CA-C	-6.33	99.77	109.89
9	CD	108	GLY	N-CA-C	-6.33	106.34	115.27
9	CS	87	LYS	CB-CA-C	-6.33	99.77	109.89
9	CS	108	GLY	N-CA-C	-6.33	106.34	115.27
9	Ch	87	LYS	CB-CA-C	-6.33	99.77	109.89
9	Ch	108	GLY	N-CA-C	-6.33	106.34	115.27
9	Cw	87	LYS	CB-CA-C	-6.33	99.77	109.89
9	Cw	108	GLY	N-CA-C	-6.33	106.34	115.27
9	C6	87	LYS	CB-CA-C	-6.33	99.77	109.89
9	CN	87	LYS	CB-CA-C	-6.33	99.77	109.89
9	Cc	87	LYS	CB-CA-C	-6.33	99.77	109.89
9	Cr	87	LYS	CB-CA-C	-6.33	99.77	109.89
10	C7	63	ASP	N-CA-CB	6.33	120.17	110.49
10	C7	198	ASP	N-CA-C	-6.33	104.44	111.71
10	CO	63	ASP	N-CA-CB	6.33	120.17	110.49
10	CO	198	ASP	N-CA-C	-6.33	104.44	111.71
10	Cd	63	ASP	N-CA-CB	6.33	120.17	110.49
10	Cd	198	ASP	N-CA-C	-6.33	104.44	111.71
10	Cs	63	ASP	N-CA-CB	6.33	120.17	110.49
10	Cs	198	ASP	N-CA-C	-6.33	104.44	111.71
10	C7	137	PHE	CA-C-N	-6.32	114.62	122.84
10	C7	137	PHE	C-N-CA	-6.32	114.62	122.84
10	CO	137	PHE	CA-C-N	-6.32	114.62	122.84
10	CO	137	PHE	C-N-CA	-6.32	114.62	122.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	Cd	137	PHE	CA-C-N	-6.32	114.62	122.84
10	Cd	137	PHE	C-N-CA	-6.32	114.62	122.84
10	Cs	137	PHE	CA-C-N	-6.32	114.62	122.84
10	Cs	137	PHE	C-N-CA	-6.32	114.62	122.84
10	C2	198	ASP	N-CA-C	-6.32	104.44	111.71
10	CJ	198	ASP	N-CA-C	-6.32	104.44	111.71
10	CY	198	ASP	N-CA-C	-6.32	104.44	111.71
10	Cn	198	ASP	N-CA-C	-6.32	104.44	111.71
10	CE	198	ASP	N-CA-C	-6.31	104.45	111.71
10	CT	198	ASP	N-CA-C	-6.31	104.45	111.71
10	Ci	198	ASP	N-CA-C	-6.31	104.45	111.71
10	Cx	198	ASP	N-CA-C	-6.31	104.45	111.71
10	CE	137	PHE	CA-C-N	-6.31	114.64	122.84
10	CE	137	PHE	C-N-CA	-6.31	114.64	122.84
10	CT	137	PHE	CA-C-N	-6.31	114.64	122.84
10	CT	137	PHE	C-N-CA	-6.31	114.64	122.84
10	Ci	137	PHE	CA-C-N	-6.31	114.64	122.84
10	Ci	137	PHE	C-N-CA	-6.31	114.64	122.84
10	Cx	137	PHE	CA-C-N	-6.31	114.64	122.84
10	Cx	137	PHE	C-N-CA	-6.31	114.64	122.84
10	CE	63	ASP	N-CA-CB	6.30	120.13	110.49
10	CT	63	ASP	N-CA-CB	6.30	120.13	110.49
10	Ci	63	ASP	N-CA-CB	6.30	120.13	110.49
10	Cx	63	ASP	N-CA-CB	6.30	120.13	110.49
10	C2	63	ASP	N-CA-CB	6.30	120.12	110.49
9	CD	42	ASP	CA-C-O	6.30	123.98	119.32
10	CJ	63	ASP	N-CA-CB	6.30	120.12	110.49
9	CS	42	ASP	CA-C-O	6.30	123.98	119.32
10	CY	63	ASP	N-CA-CB	6.30	120.12	110.49
9	Ch	42	ASP	CA-C-O	6.30	123.98	119.32
10	Cn	63	ASP	N-CA-CB	6.30	120.12	110.49
9	Cw	42	ASP	CA-C-O	6.30	123.98	119.32
10	C7	193	ASP	CA-CB-CG	-6.29	106.31	112.60
10	CO	193	ASP	CA-CB-CG	-6.29	106.31	112.60
10	Cd	193	ASP	CA-CB-CG	-6.29	106.31	112.60
10	Cs	193	ASP	CA-CB-CG	-6.29	106.31	112.60
10	C7	183	GLU	N-CA-C	-6.29	104.47	111.71
10	CO	183	GLU	N-CA-C	-6.29	104.47	111.71
10	Cd	183	GLU	N-CA-C	-6.29	104.47	111.71
10	Cs	183	GLU	N-CA-C	-6.29	104.47	111.71
9	C1	108	GLY	N-CA-C	-6.29	106.40	115.27
9	CI	108	GLY	N-CA-C	-6.29	106.40	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	CX	108	GLY	N-CA-C	-6.29	106.40	115.27
9	Cm	108	GLY	N-CA-C	-6.29	106.40	115.27
9	C6	97	PRO	CA-C-N	6.29	129.22	120.29
9	C6	97	PRO	C-N-CA	6.29	129.22	120.29
9	CN	97	PRO	CA-C-N	6.29	129.22	120.29
9	CN	97	PRO	C-N-CA	6.29	129.22	120.29
9	Cc	97	PRO	CA-C-N	6.29	129.22	120.29
9	Cc	97	PRO	C-N-CA	6.29	129.22	120.29
9	Cr	97	PRO	CA-C-N	6.29	129.22	120.29
9	Cr	97	PRO	C-N-CA	6.29	129.22	120.29
9	C6	185	ASP	CA-C-N	6.28	132.41	122.62
9	C6	185	ASP	C-N-CA	6.28	132.41	122.62
9	CN	185	ASP	CA-C-N	6.28	132.41	122.62
9	CN	185	ASP	C-N-CA	6.28	132.41	122.62
9	Cc	185	ASP	CA-C-N	6.28	132.41	122.62
9	Cc	185	ASP	C-N-CA	6.28	132.41	122.62
9	Cr	185	ASP	CA-C-N	6.28	132.41	122.62
9	Cr	185	ASP	C-N-CA	6.28	132.41	122.62
10	C7	151	GLU	CA-C-N	-6.28	111.81	122.67
10	C7	151	GLU	C-N-CA	-6.28	111.81	122.67
10	CO	151	GLU	CA-C-N	-6.28	111.81	122.67
10	CO	151	GLU	C-N-CA	-6.28	111.81	122.67
10	Cd	151	GLU	CA-C-N	-6.28	111.81	122.67
10	Cd	151	GLU	C-N-CA	-6.28	111.81	122.67
10	Cs	151	GLU	CA-C-N	-6.28	111.81	122.67
10	Cs	151	GLU	C-N-CA	-6.28	111.81	122.67
10	C2	183	GLU	N-CA-C	-6.27	104.50	111.71
10	CJ	183	GLU	N-CA-C	-6.27	104.50	111.71
10	CY	183	GLU	N-CA-C	-6.27	104.50	111.71
10	Cn	183	GLU	N-CA-C	-6.27	104.50	111.71
10	CE	183	GLU	N-CA-C	-6.27	104.50	111.71
10	CT	183	GLU	N-CA-C	-6.27	104.50	111.71
10	Ci	183	GLU	N-CA-C	-6.27	104.50	111.71
10	Cx	183	GLU	N-CA-C	-6.27	104.50	111.71
9	C6	212	GLU	CB-CA-C	-6.26	101.00	110.90
9	CN	212	GLU	CB-CA-C	-6.26	101.00	110.90
9	Cc	212	GLU	CB-CA-C	-6.26	101.00	110.90
9	Cr	212	GLU	CB-CA-C	-6.26	101.00	110.90
9	C1	97	PRO	CA-C-N	6.26	129.18	120.29
9	C1	97	PRO	C-N-CA	6.26	129.18	120.29
9	CI	97	PRO	CA-C-N	6.26	129.18	120.29
9	CI	97	PRO	C-N-CA	6.26	129.18	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	CX	97	PRO	CA-C-N	6.26	129.18	120.29
9	CX	97	PRO	C-N-CA	6.26	129.18	120.29
9	Cm	97	PRO	CA-C-N	6.26	129.18	120.29
9	Cm	97	PRO	C-N-CA	6.26	129.18	120.29
9	C1	185	ASP	CA-C-N	6.26	132.38	122.62
9	C1	185	ASP	C-N-CA	6.26	132.38	122.62
9	CI	185	ASP	CA-C-N	6.26	132.38	122.62
9	CI	185	ASP	C-N-CA	6.26	132.38	122.62
9	CX	185	ASP	CA-C-N	6.26	132.38	122.62
9	CX	185	ASP	C-N-CA	6.26	132.38	122.62
9	Cm	185	ASP	CA-C-N	6.26	132.38	122.62
9	Cm	185	ASP	C-N-CA	6.26	132.38	122.62
10	C2	151	GLU	CA-C-N	-6.26	111.85	122.67
10	C2	151	GLU	C-N-CA	-6.26	111.85	122.67
9	CD	185	ASP	CA-C-N	6.26	132.38	122.62
9	CD	185	ASP	C-N-CA	6.26	132.38	122.62
10	CJ	151	GLU	CA-C-N	-6.26	111.85	122.67
10	CJ	151	GLU	C-N-CA	-6.26	111.85	122.67
9	CS	185	ASP	CA-C-N	6.26	132.38	122.62
9	CS	185	ASP	C-N-CA	6.26	132.38	122.62
10	CY	151	GLU	CA-C-N	-6.26	111.85	122.67
10	CY	151	GLU	C-N-CA	-6.26	111.85	122.67
9	Ch	185	ASP	CA-C-N	6.26	132.38	122.62
9	Ch	185	ASP	C-N-CA	6.26	132.38	122.62
10	Cn	151	GLU	CA-C-N	-6.26	111.85	122.67
10	Cn	151	GLU	C-N-CA	-6.26	111.85	122.67
9	Cw	185	ASP	CA-C-N	6.26	132.38	122.62
9	Cw	185	ASP	C-N-CA	6.26	132.38	122.62
9	C6	42	ASP	CA-C-O	6.25	123.95	119.32
10	CE	151	GLU	CA-C-N	-6.25	111.85	122.67
10	CE	151	GLU	C-N-CA	-6.25	111.85	122.67
9	CN	42	ASP	CA-C-O	6.25	123.95	119.32
10	CT	151	GLU	CA-C-N	-6.25	111.85	122.67
10	CT	151	GLU	C-N-CA	-6.25	111.85	122.67
9	Cc	42	ASP	CA-C-O	6.25	123.95	119.32
10	Ci	151	GLU	CA-C-N	-6.25	111.85	122.67
10	Ci	151	GLU	C-N-CA	-6.25	111.85	122.67
9	Cr	42	ASP	CA-C-O	6.25	123.95	119.32
10	Cx	151	GLU	CA-C-N	-6.25	111.85	122.67
10	Cx	151	GLU	C-N-CA	-6.25	111.85	122.67
9	C1	212	GLU	CB-CA-C	-6.25	101.03	110.90
9	CD	212	GLU	CB-CA-C	-6.25	101.03	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	CI	212	GLU	CB-CA-C	-6.25	101.03	110.90
9	CS	212	GLU	CB-CA-C	-6.25	101.03	110.90
9	CX	212	GLU	CB-CA-C	-6.25	101.03	110.90
9	Ch	212	GLU	CB-CA-C	-6.25	101.03	110.90
9	Cm	212	GLU	CB-CA-C	-6.25	101.03	110.90
9	Cw	212	GLU	CB-CA-C	-6.25	101.03	110.90
9	CD	97	PRO	CA-C-N	6.25	129.16	120.29
9	CD	97	PRO	C-N-CA	6.25	129.16	120.29
9	CS	97	PRO	CA-C-N	6.25	129.16	120.29
9	CS	97	PRO	C-N-CA	6.25	129.16	120.29
9	Ch	97	PRO	CA-C-N	6.25	129.16	120.29
9	Ch	97	PRO	C-N-CA	6.25	129.16	120.29
9	Cw	97	PRO	CA-C-N	6.25	129.16	120.29
9	Cw	97	PRO	C-N-CA	6.25	129.16	120.29
10	C2	193	ASP	CA-CB-CG	-6.24	106.36	112.60
10	CJ	193	ASP	CA-CB-CG	-6.24	106.36	112.60
10	CY	193	ASP	CA-CB-CG	-6.24	106.36	112.60
10	Cn	193	ASP	CA-CB-CG	-6.24	106.36	112.60
10	CE	193	ASP	CA-CB-CG	-6.23	106.37	112.60
10	CT	193	ASP	CA-CB-CG	-6.23	106.37	112.60
10	Ci	193	ASP	CA-CB-CG	-6.23	106.37	112.60
10	Cx	193	ASP	CA-CB-CG	-6.23	106.37	112.60
7	C3	13	ARG	N-CA-C	-6.23	103.80	111.33
7	CK	13	ARG	N-CA-C	-6.23	103.80	111.33
7	CZ	13	ARG	N-CA-C	-6.23	103.80	111.33
7	Co	13	ARG	N-CA-C	-6.23	103.80	111.33
10	C2	103	LYS	CB-CA-C	-6.22	101.13	113.45
7	CA	13	ARG	N-CA-C	-6.22	103.80	111.33
10	CJ	103	LYS	CB-CA-C	-6.22	101.13	113.45
7	CP	13	ARG	N-CA-C	-6.22	103.80	111.33
10	CY	103	LYS	CB-CA-C	-6.22	101.13	113.45
7	Ce	13	ARG	N-CA-C	-6.22	103.80	111.33
10	Cn	103	LYS	CB-CA-C	-6.22	101.13	113.45
7	Ct	13	ARG	N-CA-C	-6.22	103.80	111.33
8	CC	156	ASP	CA-C-N	6.21	128.52	120.44
8	CC	156	ASP	C-N-CA	6.21	128.52	120.44
10	CE	103	LYS	CB-CA-C	-6.21	101.15	113.45
8	CR	156	ASP	CA-C-N	6.21	128.52	120.44
8	CR	156	ASP	C-N-CA	6.21	128.52	120.44
10	CT	103	LYS	CB-CA-C	-6.21	101.15	113.45
8	Cg	156	ASP	CA-C-N	6.21	128.52	120.44
8	Cg	156	ASP	C-N-CA	6.21	128.52	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	Ci	103	LYS	CB-CA-C	-6.21	101.15	113.45
8	Cv	156	ASP	CA-C-N	6.21	128.52	120.44
8	Cv	156	ASP	C-N-CA	6.21	128.52	120.44
10	Cx	103	LYS	CB-CA-C	-6.21	101.15	113.45
2	A1	28	ALA	CB-CA-C	-6.21	109.40	116.54
2	AI	28	ALA	CB-CA-C	-6.21	109.40	116.54
2	AX	28	ALA	CB-CA-C	-6.21	109.40	116.54
2	Am	28	ALA	CB-CA-C	-6.21	109.40	116.54
10	C7	103	LYS	CB-CA-C	-6.21	101.16	113.45
10	CO	103	LYS	CB-CA-C	-6.21	101.16	113.45
10	Cd	103	LYS	CB-CA-C	-6.21	101.16	113.45
10	Cs	103	LYS	CB-CA-C	-6.21	101.16	113.45
8	C5	156	ASP	CA-C-N	6.20	128.50	120.44
8	C5	156	ASP	C-N-CA	6.20	128.50	120.44
8	CM	156	ASP	CA-C-N	6.20	128.50	120.44
8	CM	156	ASP	C-N-CA	6.20	128.50	120.44
8	Cb	156	ASP	CA-C-N	6.20	128.50	120.44
8	Cb	156	ASP	C-N-CA	6.20	128.50	120.44
8	Cq	156	ASP	CA-C-N	6.20	128.50	120.44
8	Cq	156	ASP	C-N-CA	6.20	128.50	120.44
2	A6	28	ALA	CB-CA-C	-6.20	109.41	116.54
2	AN	28	ALA	CB-CA-C	-6.20	109.41	116.54
2	Ac	28	ALA	CB-CA-C	-6.20	109.41	116.54
2	Ar	28	ALA	CB-CA-C	-6.20	109.41	116.54
8	C0	156	ASP	CA-C-N	6.20	128.50	120.44
8	C0	156	ASP	C-N-CA	6.20	128.50	120.44
8	CH	156	ASP	CA-C-N	6.20	128.50	120.44
8	CH	156	ASP	C-N-CA	6.20	128.50	120.44
8	CW	156	ASP	CA-C-N	6.20	128.50	120.44
8	CW	156	ASP	C-N-CA	6.20	128.50	120.44
8	Cl	156	ASP	CA-C-N	6.20	128.50	120.44
8	Cl	156	ASP	C-N-CA	6.20	128.50	120.44
7	CF	13	ARG	N-CA-C	-6.20	103.83	111.33
7	CU	13	ARG	N-CA-C	-6.20	103.83	111.33
7	Cj	13	ARG	N-CA-C	-6.20	103.83	111.33
7	Cy	13	ARG	N-CA-C	-6.20	103.83	111.33
3	A7	109	LYS	N-CA-C	-6.19	104.64	111.82
3	AO	109	LYS	N-CA-C	-6.19	104.64	111.82
3	Ad	109	LYS	N-CA-C	-6.19	104.64	111.82
3	As	109	LYS	N-CA-C	-6.19	104.64	111.82
3	A7	6	CYS	N-CA-CB	6.18	119.99	110.60
3	AE	109	LYS	N-CA-C	-6.18	104.65	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	AO	6	CYS	N-CA-CB	6.18	119.99	110.60
3	AT	109	LYS	N-CA-C	-6.18	104.65	111.82
3	Ad	6	CYS	N-CA-CB	6.18	119.99	110.60
3	Ai	109	LYS	N-CA-C	-6.18	104.65	111.82
3	As	6	CYS	N-CA-CB	6.18	119.99	110.60
3	Ax	109	LYS	N-CA-C	-6.18	104.65	111.82
3	AE	6	CYS	N-CA-CB	6.17	119.98	110.60
3	AT	6	CYS	N-CA-CB	6.17	119.98	110.60
3	Ai	6	CYS	N-CA-CB	6.17	119.98	110.60
3	Ax	6	CYS	N-CA-CB	6.17	119.98	110.60
4	B7	99	ARG	CA-C-N	-6.17	112.67	121.50
4	B7	99	ARG	C-N-CA	-6.17	112.67	121.50
4	BO	99	ARG	CA-C-N	-6.17	112.67	121.50
4	BO	99	ARG	C-N-CA	-6.17	112.67	121.50
4	Bd	99	ARG	CA-C-N	-6.17	112.67	121.50
4	Bd	99	ARG	C-N-CA	-6.17	112.67	121.50
4	Bs	99	ARG	CA-C-N	-6.17	112.67	121.50
4	Bs	99	ARG	C-N-CA	-6.17	112.67	121.50
10	CE	12	GLU	N-CA-C	-6.17	104.56	111.28
10	CT	12	GLU	N-CA-C	-6.17	104.56	111.28
10	Ci	12	GLU	N-CA-C	-6.17	104.56	111.28
10	Cx	12	GLU	N-CA-C	-6.17	104.56	111.28
3	A2	6	CYS	N-CA-CB	6.17	119.97	110.60
3	AJ	6	CYS	N-CA-CB	6.17	119.97	110.60
3	AY	6	CYS	N-CA-CB	6.17	119.97	110.60
3	An	6	CYS	N-CA-CB	6.17	119.97	110.60
4	B2	99	ARG	CA-C-N	-6.17	112.68	121.50
4	B2	99	ARG	C-N-CA	-6.17	112.68	121.50
4	BJ	99	ARG	CA-C-N	-6.17	112.68	121.50
4	BJ	99	ARG	C-N-CA	-6.17	112.68	121.50
4	BY	99	ARG	CA-C-N	-6.17	112.68	121.50
4	BY	99	ARG	C-N-CA	-6.17	112.68	121.50
4	Bn	99	ARG	CA-C-N	-6.17	112.68	121.50
4	Bn	99	ARG	C-N-CA	-6.17	112.68	121.50
10	C7	12	GLU	N-CA-C	-6.17	104.56	111.28
10	CO	12	GLU	N-CA-C	-6.17	104.56	111.28
10	Cd	12	GLU	N-CA-C	-6.17	104.56	111.28
10	Cs	12	GLU	N-CA-C	-6.17	104.56	111.28
10	C2	12	GLU	N-CA-C	-6.16	104.56	111.28
5	CB	107	LYS	CA-C-N	6.16	125.38	118.97
5	CB	107	LYS	C-N-CA	6.16	125.38	118.97
10	CJ	12	GLU	N-CA-C	-6.16	104.56	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	CQ	107	LYS	CA-C-N	6.16	125.38	118.97
5	CQ	107	LYS	C-N-CA	6.16	125.38	118.97
10	CY	12	GLU	N-CA-C	-6.16	104.56	111.28
5	Cf	107	LYS	CA-C-N	6.16	125.38	118.97
5	Cf	107	LYS	C-N-CA	6.16	125.38	118.97
10	Cn	12	GLU	N-CA-C	-6.16	104.56	111.28
5	Cu	107	LYS	CA-C-N	6.16	125.38	118.97
5	Cu	107	LYS	C-N-CA	6.16	125.38	118.97
5	CG	107	LYS	CA-C-N	6.16	125.38	118.97
5	CG	107	LYS	C-N-CA	6.16	125.38	118.97
5	CV	107	LYS	CA-C-N	6.16	125.38	118.97
5	CV	107	LYS	C-N-CA	6.16	125.38	118.97
5	Ck	107	LYS	CA-C-N	6.16	125.38	118.97
5	Ck	107	LYS	C-N-CA	6.16	125.38	118.97
5	Cz	107	LYS	CA-C-N	6.16	125.38	118.97
5	Cz	107	LYS	C-N-CA	6.16	125.38	118.97
3	A2	109	LYS	N-CA-C	-6.16	104.68	111.82
3	AJ	109	LYS	N-CA-C	-6.16	104.68	111.82
3	AY	109	LYS	N-CA-C	-6.16	104.68	111.82
3	An	109	LYS	N-CA-C	-6.16	104.68	111.82
4	BE	99	ARG	CA-C-N	-6.16	112.69	121.50
4	BE	99	ARG	C-N-CA	-6.16	112.69	121.50
4	BT	99	ARG	CA-C-N	-6.16	112.69	121.50
4	BT	99	ARG	C-N-CA	-6.16	112.69	121.50
4	Bi	99	ARG	CA-C-N	-6.16	112.69	121.50
4	Bi	99	ARG	C-N-CA	-6.16	112.69	121.50
4	Bx	99	ARG	CA-C-N	-6.16	112.69	121.50
4	Bx	99	ARG	C-N-CA	-6.16	112.69	121.50
10	C7	210	GLU	CA-CB-CG	-6.16	101.79	114.10
10	CO	210	GLU	CA-CB-CG	-6.16	101.79	114.10
10	Cd	210	GLU	CA-CB-CG	-6.16	101.79	114.10
10	Cs	210	GLU	CA-CB-CG	-6.16	101.79	114.10
4	B3	4	CYS	CB-CA-C	-6.15	98.99	109.51
4	BK	4	CYS	CB-CA-C	-6.15	98.99	109.51
4	BZ	4	CYS	CB-CA-C	-6.15	98.99	109.51
4	Bo	4	CYS	CB-CA-C	-6.15	98.99	109.51
2	AD	28	ALA	CB-CA-C	-6.14	109.47	116.54
2	AS	28	ALA	CB-CA-C	-6.14	109.47	116.54
2	Ah	28	ALA	CB-CA-C	-6.14	109.47	116.54
2	Aw	28	ALA	CB-CA-C	-6.14	109.47	116.54
9	C1	198	ASN	CA-CB-CG	-6.14	106.46	112.60
9	CI	198	ASN	CA-CB-CG	-6.14	106.46	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	CX	198	ASN	CA-CB-CG	-6.14	106.46	112.60
9	Cm	198	ASN	CA-CB-CG	-6.14	106.46	112.60
3	AA	109	LYS	N-CA-C	-6.14	104.70	111.82
3	AP	109	LYS	N-CA-C	-6.14	104.70	111.82
3	Ae	109	LYS	N-CA-C	-6.14	104.70	111.82
3	At	109	LYS	N-CA-C	-6.14	104.70	111.82
10	CE	210	GLU	CA-CB-CG	-6.14	101.82	114.10
10	CT	210	GLU	CA-CB-CG	-6.14	101.82	114.10
10	Ci	210	GLU	CA-CB-CG	-6.14	101.82	114.10
10	Cx	210	GLU	CA-CB-CG	-6.14	101.82	114.10
3	A3	109	LYS	N-CA-C	-6.13	104.70	111.82
3	AK	109	LYS	N-CA-C	-6.13	104.70	111.82
3	AZ	109	LYS	N-CA-C	-6.13	104.70	111.82
3	Ao	109	LYS	N-CA-C	-6.13	104.70	111.82
5	C4	107	LYS	CA-C-N	6.13	125.35	118.97
5	C4	107	LYS	C-N-CA	6.13	125.35	118.97
5	CL	107	LYS	CA-C-N	6.13	125.35	118.97
5	CL	107	LYS	C-N-CA	6.13	125.35	118.97
5	Ca	107	LYS	CA-C-N	6.13	125.35	118.97
5	Ca	107	LYS	C-N-CA	6.13	125.35	118.97
5	Cp	107	LYS	CA-C-N	6.13	125.35	118.97
5	Cp	107	LYS	C-N-CA	6.13	125.35	118.97
5	B0	9	CYS	CA-C-N	-6.13	112.07	122.67
5	B0	9	CYS	C-N-CA	-6.13	112.07	122.67
5	BH	9	CYS	CA-C-N	-6.13	112.07	122.67
5	BH	9	CYS	C-N-CA	-6.13	112.07	122.67
5	BW	9	CYS	CA-C-N	-6.13	112.07	122.67
5	BW	9	CYS	C-N-CA	-6.13	112.07	122.67
5	Bl	9	CYS	CA-C-N	-6.13	112.07	122.67
5	Bl	9	CYS	C-N-CA	-6.13	112.07	122.67
4	BF	4	CYS	CB-CA-C	-6.12	99.04	109.51
4	BU	4	CYS	CB-CA-C	-6.12	99.04	109.51
4	Bj	4	CYS	CB-CA-C	-6.12	99.04	109.51
4	By	4	CYS	CB-CA-C	-6.12	99.04	109.51
9	CD	198	ASN	CA-CB-CG	-6.12	106.48	112.60
9	CS	198	ASN	CA-CB-CG	-6.12	106.48	112.60
9	Ch	198	ASN	CA-CB-CG	-6.12	106.48	112.60
9	Cw	198	ASN	CA-CB-CG	-6.12	106.48	112.60
10	C2	210	GLU	CA-CB-CG	-6.12	101.86	114.10
10	CJ	210	GLU	CA-CB-CG	-6.12	101.86	114.10
10	CY	210	GLU	CA-CB-CG	-6.12	101.86	114.10
10	Cn	210	GLU	CA-CB-CG	-6.12	101.86	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	BA	4	CYS	CB-CA-C	-6.11	99.06	109.51
4	BP	4	CYS	CB-CA-C	-6.11	99.06	109.51
4	Be	4	CYS	CB-CA-C	-6.11	99.06	109.51
4	Bt	4	CYS	CB-CA-C	-6.11	99.06	109.51
4	B2	3	GLN	CA-C-N	-6.11	112.11	123.05
4	B2	3	GLN	C-N-CA	-6.11	112.11	123.05
4	BJ	3	GLN	CA-C-N	-6.11	112.11	123.05
4	BJ	3	GLN	C-N-CA	-6.11	112.11	123.05
4	BY	3	GLN	CA-C-N	-6.11	112.11	123.05
4	BY	3	GLN	C-N-CA	-6.11	112.11	123.05
4	Bn	3	GLN	CA-C-N	-6.11	112.11	123.05
4	Bn	3	GLN	C-N-CA	-6.11	112.11	123.05
3	A3	149	ASP	CA-CB-CG	-6.11	106.49	112.60
3	AK	149	ASP	CA-CB-CG	-6.11	106.49	112.60
3	AZ	149	ASP	CA-CB-CG	-6.11	106.49	112.60
3	Ao	149	ASP	CA-CB-CG	-6.11	106.49	112.60
5	BC	9	CYS	CA-C-N	-6.11	112.10	122.67
5	BC	9	CYS	C-N-CA	-6.11	112.10	122.67
5	BR	9	CYS	CA-C-N	-6.11	112.10	122.67
5	BR	9	CYS	C-N-CA	-6.11	112.10	122.67
5	Bg	9	CYS	CA-C-N	-6.11	112.10	122.67
5	Bg	9	CYS	C-N-CA	-6.11	112.10	122.67
5	Bv	9	CYS	CA-C-N	-6.11	112.10	122.67
5	Bv	9	CYS	C-N-CA	-6.11	112.10	122.67
4	B2	142	LYS	CA-C-N	-6.11	113.76	122.00
4	B2	142	LYS	C-N-CA	-6.11	113.76	122.00
4	B7	142	LYS	CA-C-N	-6.11	113.76	122.00
4	B7	142	LYS	C-N-CA	-6.11	113.76	122.00
4	BJ	142	LYS	CA-C-N	-6.11	113.76	122.00
4	BJ	142	LYS	C-N-CA	-6.11	113.76	122.00
4	BO	142	LYS	CA-C-N	-6.11	113.76	122.00
4	BO	142	LYS	C-N-CA	-6.11	113.76	122.00
4	BY	142	LYS	CA-C-N	-6.11	113.76	122.00
4	BY	142	LYS	C-N-CA	-6.11	113.76	122.00
4	Bd	142	LYS	CA-C-N	-6.11	113.76	122.00
4	Bd	142	LYS	C-N-CA	-6.11	113.76	122.00
4	Bn	142	LYS	CA-C-N	-6.11	113.76	122.00
4	Bn	142	LYS	C-N-CA	-6.11	113.76	122.00
4	Bs	142	LYS	CA-C-N	-6.11	113.76	122.00
4	Bs	142	LYS	C-N-CA	-6.11	113.76	122.00
8	C5	196	PHE	CA-CB-CG	6.11	119.91	113.80
8	C5	222	ALA	N-CA-C	6.11	119.60	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	CM	196	PHE	CA-CB-CG	6.11	119.91	113.80
8	CM	222	ALA	N-CA-C	6.11	119.60	110.14
8	Cb	196	PHE	CA-CB-CG	6.11	119.91	113.80
8	Cb	222	ALA	N-CA-C	6.11	119.60	110.14
8	Cq	196	PHE	CA-CB-CG	6.11	119.91	113.80
8	Cq	222	ALA	N-CA-C	6.11	119.60	110.14
4	BE	142	LYS	CA-C-N	-6.10	113.76	122.00
4	BE	142	LYS	C-N-CA	-6.10	113.76	122.00
4	BT	142	LYS	CA-C-N	-6.10	113.76	122.00
4	BT	142	LYS	C-N-CA	-6.10	113.76	122.00
4	Bi	142	LYS	CA-C-N	-6.10	113.76	122.00
4	Bi	142	LYS	C-N-CA	-6.10	113.76	122.00
4	Bx	142	LYS	CA-C-N	-6.10	113.76	122.00
4	Bx	142	LYS	C-N-CA	-6.10	113.76	122.00
8	CC	222	ALA	N-CA-C	6.10	119.60	110.14
8	CR	222	ALA	N-CA-C	6.10	119.60	110.14
8	Cg	222	ALA	N-CA-C	6.10	119.60	110.14
8	Cv	222	ALA	N-CA-C	6.10	119.60	110.14
4	B7	3	GLN	CA-C-N	-6.10	112.13	123.05
4	B7	3	GLN	C-N-CA	-6.10	112.13	123.05
4	BO	3	GLN	CA-C-N	-6.10	112.13	123.05
4	BO	3	GLN	C-N-CA	-6.10	112.13	123.05
4	Bd	3	GLN	CA-C-N	-6.10	112.13	123.05
4	Bd	3	GLN	C-N-CA	-6.10	112.13	123.05
4	Bs	3	GLN	CA-C-N	-6.10	112.13	123.05
4	Bs	3	GLN	C-N-CA	-6.10	112.13	123.05
4	BE	3	GLN	CA-C-N	-6.10	112.13	123.05
4	BE	3	GLN	C-N-CA	-6.10	112.13	123.05
4	BT	3	GLN	CA-C-N	-6.10	112.13	123.05
4	BT	3	GLN	C-N-CA	-6.10	112.13	123.05
4	Bi	3	GLN	CA-C-N	-6.10	112.13	123.05
4	Bi	3	GLN	C-N-CA	-6.10	112.13	123.05
4	Bx	3	GLN	CA-C-N	-6.10	112.13	123.05
4	Bx	3	GLN	C-N-CA	-6.10	112.13	123.05
5	B5	9	CYS	CA-C-N	-6.10	112.12	122.67
5	B5	9	CYS	C-N-CA	-6.10	112.12	122.67
5	BM	9	CYS	CA-C-N	-6.10	112.12	122.67
5	BM	9	CYS	C-N-CA	-6.10	112.12	122.67
5	Bb	9	CYS	CA-C-N	-6.10	112.12	122.67
5	Bb	9	CYS	C-N-CA	-6.10	112.12	122.67
5	Bq	9	CYS	CA-C-N	-6.10	112.12	122.67
5	Bq	9	CYS	C-N-CA	-6.10	112.12	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	AF	109	LYS	N-CA-C	-6.09	104.75	111.82
3	AU	109	LYS	N-CA-C	-6.09	104.75	111.82
3	Aj	109	LYS	N-CA-C	-6.09	104.75	111.82
3	Ay	109	LYS	N-CA-C	-6.09	104.75	111.82
7	B4	7	CYS	CA-C-N	-6.09	110.50	122.02
7	B4	7	CYS	C-N-CA	-6.09	110.50	122.02
7	BL	7	CYS	CA-C-N	-6.09	110.50	122.02
7	BL	7	CYS	C-N-CA	-6.09	110.50	122.02
7	Ba	7	CYS	CA-C-N	-6.09	110.50	122.02
7	Ba	7	CYS	C-N-CA	-6.09	110.50	122.02
7	Bp	7	CYS	CA-C-N	-6.09	110.50	122.02
7	Bp	7	CYS	C-N-CA	-6.09	110.50	122.02
9	C6	198	ASN	CA-CB-CG	-6.09	106.51	112.60
9	CN	198	ASN	CA-CB-CG	-6.09	106.51	112.60
9	Cc	198	ASN	CA-CB-CG	-6.09	106.51	112.60
9	Cr	198	ASN	CA-CB-CG	-6.09	106.51	112.60
10	C7	10	HIS	N-CA-C	-6.08	104.57	111.14
10	CO	10	HIS	N-CA-C	-6.08	104.57	111.14
10	Cd	10	HIS	N-CA-C	-6.08	104.57	111.14
10	Cs	10	HIS	N-CA-C	-6.08	104.57	111.14
7	BG	7	CYS	CA-C-N	-6.08	110.52	122.02
7	BG	7	CYS	C-N-CA	-6.08	110.52	122.02
7	BV	7	CYS	CA-C-N	-6.08	110.52	122.02
7	BV	7	CYS	C-N-CA	-6.08	110.52	122.02
7	Bk	7	CYS	CA-C-N	-6.08	110.52	122.02
7	Bk	7	CYS	C-N-CA	-6.08	110.52	122.02
7	Bz	7	CYS	CA-C-N	-6.08	110.52	122.02
7	Bz	7	CYS	C-N-CA	-6.08	110.52	122.02
7	BB	7	CYS	CA-C-N	-6.08	110.53	122.02
7	BB	7	CYS	C-N-CA	-6.08	110.53	122.02
7	BQ	7	CYS	CA-C-N	-6.08	110.53	122.02
7	BQ	7	CYS	C-N-CA	-6.08	110.53	122.02
7	Bf	7	CYS	CA-C-N	-6.08	110.53	122.02
7	Bf	7	CYS	C-N-CA	-6.08	110.53	122.02
7	Bu	7	CYS	CA-C-N	-6.08	110.53	122.02
7	Bu	7	CYS	C-N-CA	-6.08	110.53	122.02
10	CE	11	ASP	CB-CA-C	-6.08	100.70	110.79
10	CT	11	ASP	CB-CA-C	-6.08	100.70	110.79
10	Ci	11	ASP	CB-CA-C	-6.08	100.70	110.79
10	Cx	11	ASP	CB-CA-C	-6.08	100.70	110.79
8	C0	222	ALA	N-CA-C	6.08	119.56	110.14
8	CH	222	ALA	N-CA-C	6.08	119.56	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	CW	222	ALA	N-CA-C	6.08	119.56	110.14
8	Cl	222	ALA	N-CA-C	6.08	119.56	110.14
3	AA	149	ASP	CA-CB-CG	-6.08	106.52	112.60
3	AP	149	ASP	CA-CB-CG	-6.08	106.52	112.60
3	Ae	149	ASP	CA-CB-CG	-6.08	106.52	112.60
3	At	149	ASP	CA-CB-CG	-6.08	106.52	112.60
9	CD	61	HIS	N-CA-C	-6.08	104.74	111.36
9	CS	61	HIS	N-CA-C	-6.08	104.74	111.36
9	Ch	61	HIS	N-CA-C	-6.08	104.74	111.36
9	Cw	61	HIS	N-CA-C	-6.08	104.74	111.36
3	AF	149	ASP	CA-CB-CG	-6.07	106.53	112.60
3	AU	149	ASP	CA-CB-CG	-6.07	106.53	112.60
3	Aj	149	ASP	CA-CB-CG	-6.07	106.53	112.60
3	Ay	149	ASP	CA-CB-CG	-6.07	106.53	112.60
10	C2	11	ASP	CB-CA-C	-6.07	100.71	110.79
8	CC	196	PHE	CA-CB-CG	6.07	119.87	113.80
10	CJ	11	ASP	CB-CA-C	-6.07	100.71	110.79
8	CR	196	PHE	CA-CB-CG	6.07	119.87	113.80
10	CY	11	ASP	CB-CA-C	-6.07	100.71	110.79
8	Cg	196	PHE	CA-CB-CG	6.07	119.87	113.80
10	Cn	11	ASP	CB-CA-C	-6.07	100.71	110.79
8	Cv	196	PHE	CA-CB-CG	6.07	119.87	113.80
10	C2	10	HIS	N-CA-C	-6.07	104.59	111.14
10	CJ	10	HIS	N-CA-C	-6.07	104.59	111.14
10	CY	10	HIS	N-CA-C	-6.07	104.59	111.14
10	Cn	10	HIS	N-CA-C	-6.07	104.59	111.14
9	C1	61	HIS	N-CA-C	-6.06	104.75	111.36
10	C7	11	ASP	CB-CA-C	-6.06	100.73	110.79
9	CI	61	HIS	N-CA-C	-6.06	104.75	111.36
10	CO	11	ASP	CB-CA-C	-6.06	100.73	110.79
9	CX	61	HIS	N-CA-C	-6.06	104.75	111.36
10	Cd	11	ASP	CB-CA-C	-6.06	100.73	110.79
9	Cm	61	HIS	N-CA-C	-6.06	104.75	111.36
10	Cs	11	ASP	CB-CA-C	-6.06	100.73	110.79
1	AC	13	ARG	N-CA-C	-6.05	104.01	111.33
1	AR	13	ARG	N-CA-C	-6.05	104.01	111.33
1	Ag	13	ARG	N-CA-C	-6.05	104.01	111.33
1	Av	13	ARG	N-CA-C	-6.05	104.01	111.33
8	CC	125	PRO	N-CA-CB	6.05	108.58	103.25
8	CR	125	PRO	N-CA-CB	6.05	108.58	103.25
8	Cg	125	PRO	N-CA-CB	6.05	108.58	103.25
8	Cv	125	PRO	N-CA-CB	6.05	108.58	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	BD	109	LYS	N-CA-C	-6.05	104.80	111.82
6	BS	109	LYS	N-CA-C	-6.05	104.80	111.82
6	Bh	109	LYS	N-CA-C	-6.05	104.80	111.82
6	Bw	109	LYS	N-CA-C	-6.05	104.80	111.82
5	B5	86	THR	CA-C-N	6.05	125.26	118.97
5	B5	86	THR	C-N-CA	6.05	125.26	118.97
5	BM	86	THR	CA-C-N	6.05	125.26	118.97
5	BM	86	THR	C-N-CA	6.05	125.26	118.97
5	Bb	86	THR	CA-C-N	6.05	125.26	118.97
5	Bb	86	THR	C-N-CA	6.05	125.26	118.97
5	Bq	86	THR	CA-C-N	6.05	125.26	118.97
5	Bq	86	THR	C-N-CA	6.05	125.26	118.97
8	C0	196	PHE	CA-CB-CG	6.05	119.85	113.80
8	CH	196	PHE	CA-CB-CG	6.05	119.85	113.80
8	CW	196	PHE	CA-CB-CG	6.05	119.85	113.80
8	Cl	196	PHE	CA-CB-CG	6.05	119.85	113.80
10	CE	10	HIS	N-CA-C	-6.04	104.61	111.14
10	CT	10	HIS	N-CA-C	-6.04	104.61	111.14
10	Ci	10	HIS	N-CA-C	-6.04	104.61	111.14
10	Cx	10	HIS	N-CA-C	-6.04	104.61	111.14
5	B0	86	THR	CA-C-N	6.04	125.25	118.97
5	B0	86	THR	C-N-CA	6.04	125.25	118.97
5	BH	86	THR	CA-C-N	6.04	125.25	118.97
5	BH	86	THR	C-N-CA	6.04	125.25	118.97
5	BW	86	THR	CA-C-N	6.04	125.25	118.97
5	BW	86	THR	C-N-CA	6.04	125.25	118.97
5	Bl	86	THR	CA-C-N	6.04	125.25	118.97
5	Bl	86	THR	C-N-CA	6.04	125.25	118.97
1	A5	13	ARG	N-CA-C	-6.04	104.02	111.33
1	AM	13	ARG	N-CA-C	-6.04	104.02	111.33
1	Ab	13	ARG	N-CA-C	-6.04	104.02	111.33
1	Aq	13	ARG	N-CA-C	-6.04	104.02	111.33
9	C6	61	HIS	N-CA-C	-6.04	104.78	111.36
9	CN	61	HIS	N-CA-C	-6.04	104.78	111.36
9	Cc	61	HIS	N-CA-C	-6.04	104.78	111.36
9	Cr	61	HIS	N-CA-C	-6.04	104.78	111.36
8	C0	125	PRO	N-CA-CB	6.03	108.56	103.25
8	CH	125	PRO	N-CA-CB	6.03	108.56	103.25
8	CW	125	PRO	N-CA-CB	6.03	108.56	103.25
8	Cl	125	PRO	N-CA-CB	6.03	108.56	103.25
8	C5	125	PRO	N-CA-CB	6.03	108.56	103.25
8	CM	125	PRO	N-CA-CB	6.03	108.56	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	Cb	125	PRO	N-CA-CB	6.03	108.56	103.25
8	Cq	125	PRO	N-CA-CB	6.03	108.56	103.25
1	A0	13	ARG	N-CA-C	-6.03	104.04	111.33
1	AH	13	ARG	N-CA-C	-6.03	104.04	111.33
1	AW	13	ARG	N-CA-C	-6.03	104.04	111.33
1	Al	13	ARG	N-CA-C	-6.03	104.04	111.33
6	B6	109	LYS	N-CA-C	-6.03	104.83	111.82
6	BN	109	LYS	N-CA-C	-6.03	104.83	111.82
6	Bc	109	LYS	N-CA-C	-6.03	104.83	111.82
6	Br	109	LYS	N-CA-C	-6.03	104.83	111.82
5	BC	86	THR	CA-C-N	6.02	125.23	118.97
5	BC	86	THR	C-N-CA	6.02	125.23	118.97
5	BR	86	THR	CA-C-N	6.02	125.23	118.97
5	BR	86	THR	C-N-CA	6.02	125.23	118.97
5	Bg	86	THR	CA-C-N	6.02	125.23	118.97
5	Bg	86	THR	C-N-CA	6.02	125.23	118.97
5	Bv	86	THR	CA-C-N	6.02	125.23	118.97
5	Bv	86	THR	C-N-CA	6.02	125.23	118.97
6	B1	109	LYS	N-CA-C	-6.01	104.85	111.82
6	BI	109	LYS	N-CA-C	-6.01	104.85	111.82
6	BX	109	LYS	N-CA-C	-6.01	104.85	111.82
6	Bm	109	LYS	N-CA-C	-6.01	104.85	111.82
5	B0	11	VAL	N-CA-CB	-6.00	103.53	110.55
5	BH	11	VAL	N-CA-CB	-6.00	103.53	110.55
5	BW	11	VAL	N-CA-CB	-6.00	103.53	110.55
5	Bl	11	VAL	N-CA-CB	-6.00	103.53	110.55
4	BA	101	ILE	CB-CA-C	-5.99	100.46	111.36
4	BP	101	ILE	CB-CA-C	-5.99	100.46	111.36
4	Be	101	ILE	CB-CA-C	-5.99	100.46	111.36
4	Bt	101	ILE	CB-CA-C	-5.99	100.46	111.36
4	BF	101	ILE	CB-CA-C	-5.99	100.46	111.36
4	BU	101	ILE	CB-CA-C	-5.99	100.46	111.36
4	Bj	101	ILE	CB-CA-C	-5.99	100.46	111.36
4	By	101	ILE	CB-CA-C	-5.99	100.46	111.36
9	C1	200	GLY	N-CA-C	-5.99	107.56	114.69
9	CI	200	GLY	N-CA-C	-5.99	107.56	114.69
9	CX	200	GLY	N-CA-C	-5.99	107.56	114.69
9	Cm	200	GLY	N-CA-C	-5.99	107.56	114.69
4	B3	101	ILE	CB-CA-C	-5.98	100.47	111.36
4	BK	101	ILE	CB-CA-C	-5.98	100.47	111.36
4	BZ	101	ILE	CB-CA-C	-5.98	100.47	111.36
4	Bo	101	ILE	CB-CA-C	-5.98	100.47	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	C4	28	ALA	CB-CA-C	-5.98	109.66	116.54
5	CL	28	ALA	CB-CA-C	-5.98	109.66	116.54
5	Ca	28	ALA	CB-CA-C	-5.98	109.66	116.54
5	Cp	28	ALA	CB-CA-C	-5.98	109.66	116.54
9	CD	199	ARG	CG-CD-NE	-5.97	98.85	112.00
5	CG	28	ALA	CB-CA-C	-5.97	109.67	116.54
9	CS	199	ARG	CG-CD-NE	-5.97	98.85	112.00
5	CV	28	ALA	CB-CA-C	-5.97	109.67	116.54
9	Ch	199	ARG	CG-CD-NE	-5.97	98.85	112.00
5	Ck	28	ALA	CB-CA-C	-5.97	109.67	116.54
9	Cw	199	ARG	CG-CD-NE	-5.97	98.85	112.00
5	Cz	28	ALA	CB-CA-C	-5.97	109.67	116.54
5	CB	28	ALA	CB-CA-C	-5.97	109.67	116.54
5	CQ	28	ALA	CB-CA-C	-5.97	109.67	116.54
5	Cf	28	ALA	CB-CA-C	-5.97	109.67	116.54
5	Cu	28	ALA	CB-CA-C	-5.97	109.67	116.54
7	CF	150	ARG	CD-NE-CZ	-5.97	116.05	124.40
7	CU	150	ARG	CD-NE-CZ	-5.97	116.05	124.40
7	Cj	150	ARG	CD-NE-CZ	-5.97	116.05	124.40
7	Cy	150	ARG	CD-NE-CZ	-5.97	116.05	124.40
9	C6	199	ARG	CG-CD-NE	-5.97	98.88	112.00
7	CA	6	CYS	N-CA-CB	5.97	118.53	109.94
9	CN	199	ARG	CG-CD-NE	-5.97	98.88	112.00
7	CP	6	CYS	N-CA-CB	5.97	118.53	109.94
9	Cc	199	ARG	CG-CD-NE	-5.97	98.88	112.00
7	Ce	6	CYS	N-CA-CB	5.97	118.53	109.94
9	Cr	199	ARG	CG-CD-NE	-5.97	98.88	112.00
7	Ct	6	CYS	N-CA-CB	5.97	118.53	109.94
9	CD	200	GLY	N-CA-C	-5.96	107.60	114.69
9	CS	200	GLY	N-CA-C	-5.96	107.60	114.69
9	Ch	200	GLY	N-CA-C	-5.96	107.60	114.69
9	Cw	200	GLY	N-CA-C	-5.96	107.60	114.69
5	B5	11	VAL	N-CA-CB	-5.96	103.58	110.55
5	BM	11	VAL	N-CA-CB	-5.96	103.58	110.55
5	Bb	11	VAL	N-CA-CB	-5.96	103.58	110.55
5	Bq	11	VAL	N-CA-CB	-5.96	103.58	110.55
8	C0	198	LEU	N-CA-C	-5.96	104.91	111.82
9	C6	200	GLY	N-CA-C	-5.96	107.60	114.69
8	CH	198	LEU	N-CA-C	-5.96	104.91	111.82
9	CN	200	GLY	N-CA-C	-5.96	107.60	114.69
8	CW	198	LEU	N-CA-C	-5.96	104.91	111.82
9	Cc	200	GLY	N-CA-C	-5.96	107.60	114.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	Cl	198	LEU	N-CA-C	-5.96	104.91	111.82
9	Cr	200	GLY	N-CA-C	-5.96	107.60	114.69
9	C1	199	ARG	CG-CD-NE	-5.95	98.90	112.00
9	CI	199	ARG	CG-CD-NE	-5.95	98.90	112.00
9	CX	199	ARG	CG-CD-NE	-5.95	98.90	112.00
9	Cm	199	ARG	CG-CD-NE	-5.95	98.90	112.00
9	C1	144	ARG	CB-CA-C	-5.95	98.00	109.37
9	CI	144	ARG	CB-CA-C	-5.95	98.00	109.37
9	CX	144	ARG	CB-CA-C	-5.95	98.00	109.37
9	Cm	144	ARG	CB-CA-C	-5.95	98.00	109.37
9	C6	144	ARG	CB-CA-C	-5.95	98.02	109.37
7	CA	150	ARG	CD-NE-CZ	-5.95	116.08	124.40
9	CN	144	ARG	CB-CA-C	-5.95	98.02	109.37
7	CP	150	ARG	CD-NE-CZ	-5.95	116.08	124.40
9	Cc	144	ARG	CB-CA-C	-5.95	98.02	109.37
7	Ce	150	ARG	CD-NE-CZ	-5.95	116.08	124.40
9	Cr	144	ARG	CB-CA-C	-5.95	98.02	109.37
7	Ct	150	ARG	CD-NE-CZ	-5.95	116.08	124.40
7	C3	6	CYS	N-CA-CB	5.94	118.50	109.94
7	CK	6	CYS	N-CA-CB	5.94	118.50	109.94
7	CZ	6	CYS	N-CA-CB	5.94	118.50	109.94
7	Co	6	CYS	N-CA-CB	5.94	118.50	109.94
5	BC	11	VAL	N-CA-CB	-5.94	103.60	110.55
5	BR	11	VAL	N-CA-CB	-5.94	103.60	110.55
5	Bg	11	VAL	N-CA-CB	-5.94	103.60	110.55
5	Bv	11	VAL	N-CA-CB	-5.94	103.60	110.55
8	CC	93	SER	N-CA-C	-5.94	105.29	112.54
8	CR	93	SER	N-CA-C	-5.94	105.29	112.54
8	Cg	93	SER	N-CA-C	-5.94	105.29	112.54
8	Cv	93	SER	N-CA-C	-5.94	105.29	112.54
7	C3	150	ARG	CD-NE-CZ	-5.93	116.10	124.40
7	CK	150	ARG	CD-NE-CZ	-5.93	116.10	124.40
7	CZ	150	ARG	CD-NE-CZ	-5.93	116.10	124.40
7	Co	150	ARG	CD-NE-CZ	-5.93	116.10	124.40
9	CD	144	ARG	CB-CA-C	-5.93	98.05	109.37
9	CS	144	ARG	CB-CA-C	-5.93	98.05	109.37
9	Ch	144	ARG	CB-CA-C	-5.93	98.05	109.37
9	Cw	144	ARG	CB-CA-C	-5.93	98.05	109.37
8	C0	93	SER	N-CA-C	-5.93	105.31	112.54
8	CH	93	SER	N-CA-C	-5.93	105.31	112.54
8	CW	93	SER	N-CA-C	-5.93	105.31	112.54
8	Cl	93	SER	N-CA-C	-5.93	105.31	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	CF	6	CYS	N-CA-CB	5.93	118.47	109.94
7	CU	6	CYS	N-CA-CB	5.93	118.47	109.94
7	Cj	6	CYS	N-CA-CB	5.93	118.47	109.94
7	Cy	6	CYS	N-CA-CB	5.93	118.47	109.94
9	C1	87	LYS	N-CA-CB	5.92	118.68	109.85
8	C5	93	SER	N-CA-C	-5.92	105.31	112.54
9	C6	87	LYS	N-CA-CB	5.92	118.68	109.85
9	CI	87	LYS	N-CA-CB	5.92	118.68	109.85
8	CM	93	SER	N-CA-C	-5.92	105.31	112.54
9	CN	87	LYS	N-CA-CB	5.92	118.68	109.85
9	CX	87	LYS	N-CA-CB	5.92	118.68	109.85
8	Cb	93	SER	N-CA-C	-5.92	105.31	112.54
9	Cc	87	LYS	N-CA-CB	5.92	118.68	109.85
9	Cm	87	LYS	N-CA-CB	5.92	118.68	109.85
8	Cq	93	SER	N-CA-C	-5.92	105.31	112.54
9	Cr	87	LYS	N-CA-CB	5.92	118.68	109.85
9	CD	87	LYS	N-CA-CB	5.92	118.67	109.85
9	CS	87	LYS	N-CA-CB	5.92	118.67	109.85
9	Ch	87	LYS	N-CA-CB	5.92	118.67	109.85
9	Cw	87	LYS	N-CA-CB	5.92	118.67	109.85
8	C0	56	ASN	N-CA-CB	5.92	119.45	110.28
8	CC	198	LEU	N-CA-C	-5.92	104.96	111.82
8	CH	56	ASN	N-CA-CB	5.92	119.45	110.28
8	CR	198	LEU	N-CA-C	-5.92	104.96	111.82
8	CW	56	ASN	N-CA-CB	5.92	119.45	110.28
8	Cg	198	LEU	N-CA-C	-5.92	104.96	111.82
8	Cl	56	ASN	N-CA-CB	5.92	119.45	110.28
8	Cv	198	LEU	N-CA-C	-5.92	104.96	111.82
8	C5	56	ASN	N-CA-CB	5.92	119.45	110.28
8	C5	198	LEU	N-CA-C	-5.92	104.96	111.82
8	CM	56	ASN	N-CA-CB	5.92	119.45	110.28
8	CM	198	LEU	N-CA-C	-5.92	104.96	111.82
8	Cb	56	ASN	N-CA-CB	5.92	119.45	110.28
8	Cb	198	LEU	N-CA-C	-5.92	104.96	111.82
8	Cq	56	ASN	N-CA-CB	5.92	119.45	110.28
8	Cq	198	LEU	N-CA-C	-5.92	104.96	111.82
5	B0	28	ALA	CB-CA-C	-5.91	109.74	116.54
5	BH	28	ALA	CB-CA-C	-5.91	109.74	116.54
5	BW	28	ALA	CB-CA-C	-5.91	109.74	116.54
5	Bl	28	ALA	CB-CA-C	-5.91	109.74	116.54
8	C5	40	HIS	CA-C-N	-5.91	112.97	121.42
8	C5	40	HIS	C-N-CA	-5.91	112.97	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	CM	40	HIS	CA-C-N	-5.91	112.97	121.42
8	CM	40	HIS	C-N-CA	-5.91	112.97	121.42
8	Cb	40	HIS	CA-C-N	-5.91	112.97	121.42
8	Cb	40	HIS	C-N-CA	-5.91	112.97	121.42
8	Cq	40	HIS	CA-C-N	-5.91	112.97	121.42
8	Cq	40	HIS	C-N-CA	-5.91	112.97	121.42
5	BC	28	ALA	CB-CA-C	-5.90	109.75	116.54
5	BR	28	ALA	CB-CA-C	-5.90	109.75	116.54
5	Bg	28	ALA	CB-CA-C	-5.90	109.75	116.54
5	Bv	28	ALA	CB-CA-C	-5.90	109.75	116.54
8	CC	40	HIS	CA-C-N	-5.90	112.98	121.42
8	CC	40	HIS	C-N-CA	-5.90	112.98	121.42
8	CR	40	HIS	CA-C-N	-5.90	112.98	121.42
8	CR	40	HIS	C-N-CA	-5.90	112.98	121.42
8	Cg	40	HIS	CA-C-N	-5.90	112.98	121.42
8	Cg	40	HIS	C-N-CA	-5.90	112.98	121.42
8	Cv	40	HIS	CA-C-N	-5.90	112.98	121.42
8	Cv	40	HIS	C-N-CA	-5.90	112.98	121.42
3	AF	27	PHE	CB-CG-CD1	5.90	130.73	120.70
3	AU	27	PHE	CB-CG-CD1	5.90	130.73	120.70
3	Aj	27	PHE	CB-CG-CD1	5.90	130.73	120.70
3	Ay	27	PHE	CB-CG-CD1	5.90	130.73	120.70
5	B5	28	ALA	CB-CA-C	-5.90	109.76	116.54
5	BM	28	ALA	CB-CA-C	-5.90	109.76	116.54
5	Bb	28	ALA	CB-CA-C	-5.90	109.76	116.54
5	Bq	28	ALA	CB-CA-C	-5.90	109.76	116.54
8	C0	40	HIS	CA-C-N	-5.90	112.99	121.42
8	C0	40	HIS	C-N-CA	-5.90	112.99	121.42
8	CH	40	HIS	CA-C-N	-5.90	112.99	121.42
8	CH	40	HIS	C-N-CA	-5.90	112.99	121.42
8	CW	40	HIS	CA-C-N	-5.90	112.99	121.42
8	CW	40	HIS	C-N-CA	-5.90	112.99	121.42
8	Cl	40	HIS	CA-C-N	-5.90	112.99	121.42
8	Cl	40	HIS	C-N-CA	-5.90	112.99	121.42
8	CC	56	ASN	N-CA-CB	5.89	119.42	110.28
8	CR	56	ASN	N-CA-CB	5.89	119.42	110.28
8	Cg	56	ASN	N-CA-CB	5.89	119.42	110.28
8	Cv	56	ASN	N-CA-CB	5.89	119.42	110.28
7	CA	47	ILE	CA-C-N	5.89	125.76	119.28
7	CA	47	ILE	C-N-CA	5.89	125.76	119.28
7	CF	47	ILE	CA-C-N	5.89	125.76	119.28
7	CF	47	ILE	C-N-CA	5.89	125.76	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	CP	47	ILE	CA-C-N	5.89	125.76	119.28
7	CP	47	ILE	C-N-CA	5.89	125.76	119.28
7	CU	47	ILE	CA-C-N	5.89	125.76	119.28
7	CU	47	ILE	C-N-CA	5.89	125.76	119.28
7	Ce	47	ILE	CA-C-N	5.89	125.76	119.28
7	Ce	47	ILE	C-N-CA	5.89	125.76	119.28
7	Cj	47	ILE	CA-C-N	5.89	125.76	119.28
7	Cj	47	ILE	C-N-CA	5.89	125.76	119.28
7	Ct	47	ILE	CA-C-N	5.89	125.76	119.28
7	Ct	47	ILE	C-N-CA	5.89	125.76	119.28
7	Cy	47	ILE	CA-C-N	5.89	125.76	119.28
7	Cy	47	ILE	C-N-CA	5.89	125.76	119.28
7	BB	47	ILE	CA-C-N	5.89	125.76	119.28
7	BB	47	ILE	C-N-CA	5.89	125.76	119.28
7	BQ	47	ILE	CA-C-N	5.89	125.76	119.28
7	BQ	47	ILE	C-N-CA	5.89	125.76	119.28
7	Bf	47	ILE	CA-C-N	5.89	125.76	119.28
7	Bf	47	ILE	C-N-CA	5.89	125.76	119.28
7	Bu	47	ILE	CA-C-N	5.89	125.76	119.28
7	Bu	47	ILE	C-N-CA	5.89	125.76	119.28
7	BB	13	ARG	N-CA-C	-5.89	104.21	111.33
7	BQ	13	ARG	N-CA-C	-5.89	104.21	111.33
7	Bf	13	ARG	N-CA-C	-5.89	104.21	111.33
7	Bu	13	ARG	N-CA-C	-5.89	104.21	111.33
3	AF	5	ASP	CA-C-N	-5.88	112.49	122.67
3	AF	5	ASP	C-N-CA	-5.88	112.49	122.67
3	AU	5	ASP	CA-C-N	-5.88	112.49	122.67
3	AU	5	ASP	C-N-CA	-5.88	112.49	122.67
3	Aj	5	ASP	CA-C-N	-5.88	112.49	122.67
3	Aj	5	ASP	C-N-CA	-5.88	112.49	122.67
3	Ay	5	ASP	CA-C-N	-5.88	112.49	122.67
3	Ay	5	ASP	C-N-CA	-5.88	112.49	122.67
7	BG	13	ARG	N-CA-C	-5.88	104.21	111.33
7	BV	13	ARG	N-CA-C	-5.88	104.21	111.33
7	Bk	13	ARG	N-CA-C	-5.88	104.21	111.33
7	Bz	13	ARG	N-CA-C	-5.88	104.21	111.33
3	AA	27	PHE	CB-CG-CD1	5.88	130.69	120.70
3	AP	27	PHE	CB-CG-CD1	5.88	130.69	120.70
3	Ae	27	PHE	CB-CG-CD1	5.88	130.69	120.70
3	At	27	PHE	CB-CG-CD1	5.88	130.69	120.70
3	A7	26	SER	CA-C-N	5.87	129.45	121.05
3	A7	26	SER	C-N-CA	5.87	129.45	121.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	AE	26	SER	CA-C-N	5.87	129.45	121.05
3	AE	26	SER	C-N-CA	5.87	129.45	121.05
3	AO	26	SER	CA-C-N	5.87	129.45	121.05
3	AO	26	SER	C-N-CA	5.87	129.45	121.05
3	AT	26	SER	CA-C-N	5.87	129.45	121.05
3	AT	26	SER	C-N-CA	5.87	129.45	121.05
3	Ad	26	SER	CA-C-N	5.87	129.45	121.05
3	Ad	26	SER	C-N-CA	5.87	129.45	121.05
3	Ai	26	SER	CA-C-N	5.87	129.45	121.05
3	Ai	26	SER	C-N-CA	5.87	129.45	121.05
3	As	26	SER	CA-C-N	5.87	129.45	121.05
3	As	26	SER	C-N-CA	5.87	129.45	121.05
3	Ax	26	SER	CA-C-N	5.87	129.45	121.05
3	Ax	26	SER	C-N-CA	5.87	129.45	121.05
7	B4	47	ILE	CA-C-N	5.87	125.74	119.28
7	B4	47	ILE	C-N-CA	5.87	125.74	119.28
7	BL	47	ILE	CA-C-N	5.87	125.74	119.28
7	BL	47	ILE	C-N-CA	5.87	125.74	119.28
7	Ba	47	ILE	CA-C-N	5.87	125.74	119.28
7	Ba	47	ILE	C-N-CA	5.87	125.74	119.28
7	Bp	47	ILE	CA-C-N	5.87	125.74	119.28
7	Bp	47	ILE	C-N-CA	5.87	125.74	119.28
3	A2	26	SER	CA-C-N	5.87	129.45	121.05
3	A2	26	SER	C-N-CA	5.87	129.45	121.05
3	A3	27	PHE	CB-CG-CD1	5.87	130.68	120.70
3	AJ	26	SER	CA-C-N	5.87	129.45	121.05
3	AJ	26	SER	C-N-CA	5.87	129.45	121.05
3	AK	27	PHE	CB-CG-CD1	5.87	130.68	120.70
3	AY	26	SER	CA-C-N	5.87	129.45	121.05
3	AY	26	SER	C-N-CA	5.87	129.45	121.05
3	AZ	27	PHE	CB-CG-CD1	5.87	130.68	120.70
3	An	26	SER	CA-C-N	5.87	129.45	121.05
3	An	26	SER	C-N-CA	5.87	129.45	121.05
3	Ao	27	PHE	CB-CG-CD1	5.87	130.68	120.70
3	A3	5	ASP	CA-C-N	-5.87	112.52	122.67
3	A3	5	ASP	C-N-CA	-5.87	112.52	122.67
3	AK	5	ASP	CA-C-N	-5.87	112.52	122.67
3	AK	5	ASP	C-N-CA	-5.87	112.52	122.67
3	AZ	5	ASP	CA-C-N	-5.87	112.52	122.67
3	AZ	5	ASP	C-N-CA	-5.87	112.52	122.67
3	Ao	5	ASP	CA-C-N	-5.87	112.52	122.67
3	Ao	5	ASP	C-N-CA	-5.87	112.52	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	B4	13	ARG	N-CA-C	-5.87	104.23	111.33
7	BL	13	ARG	N-CA-C	-5.87	104.23	111.33
7	Ba	13	ARG	N-CA-C	-5.87	104.23	111.33
7	Bp	13	ARG	N-CA-C	-5.87	104.23	111.33
7	C3	47	ILE	CA-C-N	5.87	125.73	119.28
7	C3	47	ILE	C-N-CA	5.87	125.73	119.28
7	CK	47	ILE	CA-C-N	5.87	125.73	119.28
7	CK	47	ILE	C-N-CA	5.87	125.73	119.28
7	CZ	47	ILE	CA-C-N	5.87	125.73	119.28
7	CZ	47	ILE	C-N-CA	5.87	125.73	119.28
7	Co	47	ILE	CA-C-N	5.87	125.73	119.28
7	Co	47	ILE	C-N-CA	5.87	125.73	119.28
3	AA	5	ASP	CA-C-N	-5.87	112.52	122.67
3	AA	5	ASP	C-N-CA	-5.87	112.52	122.67
3	AP	5	ASP	CA-C-N	-5.87	112.52	122.67
3	AP	5	ASP	C-N-CA	-5.87	112.52	122.67
3	Ae	5	ASP	CA-C-N	-5.87	112.52	122.67
3	Ae	5	ASP	C-N-CA	-5.87	112.52	122.67
3	At	5	ASP	CA-C-N	-5.87	112.52	122.67
3	At	5	ASP	C-N-CA	-5.87	112.52	122.67
7	BG	47	ILE	CA-C-N	5.85	125.72	119.28
7	BG	47	ILE	C-N-CA	5.85	125.72	119.28
7	BV	47	ILE	CA-C-N	5.85	125.72	119.28
7	BV	47	ILE	C-N-CA	5.85	125.72	119.28
7	Bk	47	ILE	CA-C-N	5.85	125.72	119.28
7	Bk	47	ILE	C-N-CA	5.85	125.72	119.28
7	Bz	47	ILE	CA-C-N	5.85	125.72	119.28
7	Bz	47	ILE	C-N-CA	5.85	125.72	119.28
4	A4	3	GLN	CB-CG-CD	-5.85	102.66	112.60
4	AL	3	GLN	CB-CG-CD	-5.85	102.66	112.60
4	Aa	3	GLN	CB-CG-CD	-5.85	102.66	112.60
4	Ap	3	GLN	CB-CG-CD	-5.85	102.66	112.60
4	AG	3	GLN	CB-CG-CD	-5.85	102.66	112.60
4	AV	3	GLN	CB-CG-CD	-5.85	102.66	112.60
4	Ak	3	GLN	CB-CG-CD	-5.85	102.66	112.60
4	Az	3	GLN	CB-CG-CD	-5.85	102.66	112.60
4	AB	3	GLN	CB-CG-CD	-5.84	102.68	112.60
4	AQ	3	GLN	CB-CG-CD	-5.84	102.68	112.60
4	Af	3	GLN	CB-CG-CD	-5.84	102.68	112.60
4	Au	3	GLN	CB-CG-CD	-5.84	102.68	112.60
2	AD	146	ILE	CB-CA-C	-5.82	104.19	112.22
2	AS	146	ILE	CB-CA-C	-5.82	104.19	112.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ah	146	ILE	CB-CA-C	-5.82	104.19	112.22
2	Aw	146	ILE	CB-CA-C	-5.82	104.19	112.22
2	A6	146	ILE	CB-CA-C	-5.81	104.20	112.22
2	AN	146	ILE	CB-CA-C	-5.81	104.20	112.22
2	Ac	146	ILE	CB-CA-C	-5.81	104.20	112.22
2	Ar	146	ILE	CB-CA-C	-5.81	104.20	112.22
2	A1	146	ILE	CB-CA-C	-5.81	104.20	112.22
2	AI	146	ILE	CB-CA-C	-5.81	104.20	112.22
2	AX	146	ILE	CB-CA-C	-5.81	104.20	112.22
2	Am	146	ILE	CB-CA-C	-5.81	104.20	112.22
4	BA	101	ILE	O-C-N	5.81	127.72	121.10
4	BP	101	ILE	O-C-N	5.81	127.72	121.10
4	Be	101	ILE	O-C-N	5.81	127.72	121.10
4	Bt	101	ILE	O-C-N	5.81	127.72	121.10
7	CF	88	PRO	N-CA-C	5.80	117.78	110.70
7	CU	88	PRO	N-CA-C	5.80	117.78	110.70
7	Cj	88	PRO	N-CA-C	5.80	117.78	110.70
7	Cy	88	PRO	N-CA-C	5.80	117.78	110.70
4	B7	3	GLN	N-CA-C	-5.80	100.84	110.17
4	BO	3	GLN	N-CA-C	-5.80	100.84	110.17
4	Bd	3	GLN	N-CA-C	-5.80	100.84	110.17
4	Bs	3	GLN	N-CA-C	-5.80	100.84	110.17
8	CC	212	SER	CB-CA-C	-5.79	98.89	110.42
8	CR	212	SER	CB-CA-C	-5.79	98.89	110.42
8	Cg	212	SER	CB-CA-C	-5.79	98.89	110.42
8	Cv	212	SER	CB-CA-C	-5.79	98.89	110.42
4	B2	3	GLN	N-CA-C	-5.79	100.85	110.17
4	BJ	3	GLN	N-CA-C	-5.79	100.85	110.17
4	BY	3	GLN	N-CA-C	-5.79	100.85	110.17
4	Bn	3	GLN	N-CA-C	-5.79	100.85	110.17
4	BE	3	GLN	N-CA-C	-5.79	100.85	110.17
4	BT	3	GLN	N-CA-C	-5.79	100.85	110.17
4	Bi	3	GLN	N-CA-C	-5.79	100.85	110.17
4	Bx	3	GLN	N-CA-C	-5.79	100.85	110.17
4	BF	101	ILE	O-C-N	5.78	127.69	121.10
4	BU	101	ILE	O-C-N	5.78	127.69	121.10
4	Bj	101	ILE	O-C-N	5.78	127.69	121.10
4	By	101	ILE	O-C-N	5.78	127.69	121.10
8	C5	212	SER	CB-CA-C	-5.78	98.92	110.42
8	CM	212	SER	CB-CA-C	-5.78	98.92	110.42
8	Cb	212	SER	CB-CA-C	-5.78	98.92	110.42
8	Cq	212	SER	CB-CA-C	-5.78	98.92	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	C0	212	SER	CB-CA-C	-5.78	98.92	110.42
8	CH	212	SER	CB-CA-C	-5.78	98.92	110.42
8	CW	212	SER	CB-CA-C	-5.78	98.92	110.42
8	Cl	212	SER	CB-CA-C	-5.78	98.92	110.42
4	B3	101	ILE	O-C-N	5.77	127.68	121.10
4	BK	101	ILE	O-C-N	5.77	127.68	121.10
4	BZ	101	ILE	O-C-N	5.77	127.68	121.10
4	Bo	101	ILE	O-C-N	5.77	127.68	121.10
7	CA	88	PRO	N-CA-C	5.77	117.74	110.70
7	CP	88	PRO	N-CA-C	5.77	117.74	110.70
7	Ce	88	PRO	N-CA-C	5.77	117.74	110.70
7	Ct	88	PRO	N-CA-C	5.77	117.74	110.70
10	CE	170	SER	O-C-N	5.77	129.94	123.19
10	CT	170	SER	O-C-N	5.77	129.94	123.19
10	Ci	170	SER	O-C-N	5.77	129.94	123.19
10	Cx	170	SER	O-C-N	5.77	129.94	123.19
7	C3	88	PRO	N-CA-C	5.77	117.74	110.70
7	CK	88	PRO	N-CA-C	5.77	117.74	110.70
7	CZ	88	PRO	N-CA-C	5.77	117.74	110.70
7	Co	88	PRO	N-CA-C	5.77	117.74	110.70
8	C5	202	ASP	N-CA-C	-5.73	105.11	111.36
8	CM	202	ASP	N-CA-C	-5.73	105.11	111.36
8	Cb	202	ASP	N-CA-C	-5.73	105.11	111.36
8	Cq	202	ASP	N-CA-C	-5.73	105.11	111.36
1	AC	88	PRO	N-CA-C	5.73	117.69	110.70
1	AR	88	PRO	N-CA-C	5.73	117.69	110.70
1	Ag	88	PRO	N-CA-C	5.73	117.69	110.70
1	Av	88	PRO	N-CA-C	5.73	117.69	110.70
8	C0	202	ASP	N-CA-C	-5.73	105.11	111.36
10	CE	180	PRO	O-C-N	5.73	128.22	121.46
8	CH	202	ASP	N-CA-C	-5.73	105.11	111.36
10	CT	180	PRO	O-C-N	5.73	128.22	121.46
8	CW	202	ASP	N-CA-C	-5.73	105.11	111.36
10	Ci	180	PRO	O-C-N	5.73	128.22	121.46
8	Cl	202	ASP	N-CA-C	-5.73	105.11	111.36
10	Cx	180	PRO	O-C-N	5.73	128.22	121.46
8	CC	202	ASP	N-CA-C	-5.73	105.11	111.36
9	CD	84	ASP	N-CA-C	-5.73	105.11	111.36
8	CR	202	ASP	N-CA-C	-5.73	105.11	111.36
9	CS	84	ASP	N-CA-C	-5.73	105.11	111.36
8	Cg	202	ASP	N-CA-C	-5.73	105.11	111.36
9	Ch	84	ASP	N-CA-C	-5.73	105.11	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	Cv	202	ASP	N-CA-C	-5.73	105.11	111.36
9	Cw	84	ASP	N-CA-C	-5.73	105.11	111.36
1	A0	88	PRO	N-CA-C	5.73	117.69	110.70
1	AH	88	PRO	N-CA-C	5.73	117.69	110.70
1	AW	88	PRO	N-CA-C	5.73	117.69	110.70
1	Al	88	PRO	N-CA-C	5.73	117.69	110.70
7	CA	5	HIS	CB-CA-C	-5.73	101.89	110.88
7	CP	5	HIS	CB-CA-C	-5.73	101.89	110.88
7	Ce	5	HIS	CB-CA-C	-5.73	101.89	110.88
7	Ct	5	HIS	CB-CA-C	-5.73	101.89	110.88
10	C7	90	ARG	CB-CA-C	-5.73	101.65	110.81
10	CE	59	ASP	N-CA-CB	5.73	117.73	110.23
10	CO	90	ARG	CB-CA-C	-5.73	101.65	110.81
10	CT	59	ASP	N-CA-CB	5.73	117.73	110.23
10	Cd	90	ARG	CB-CA-C	-5.73	101.65	110.81
10	Ci	59	ASP	N-CA-CB	5.73	117.73	110.23
10	Cs	90	ARG	CB-CA-C	-5.73	101.65	110.81
10	Cx	59	ASP	N-CA-CB	5.73	117.73	110.23
4	BF	98	GLY	N-CA-C	-5.72	107.09	113.79
4	BU	98	GLY	N-CA-C	-5.72	107.09	113.79
4	Bj	98	GLY	N-CA-C	-5.72	107.09	113.79
4	By	98	GLY	N-CA-C	-5.72	107.09	113.79
10	CE	90	ARG	CB-CA-C	-5.72	101.66	110.81
10	CT	90	ARG	CB-CA-C	-5.72	101.66	110.81
10	Ci	90	ARG	CB-CA-C	-5.72	101.66	110.81
10	Cx	90	ARG	CB-CA-C	-5.72	101.66	110.81
10	C7	170	SER	O-C-N	5.71	129.88	123.19
7	CF	5	HIS	CB-CA-C	-5.71	101.91	110.88
10	CO	170	SER	O-C-N	5.71	129.88	123.19
7	CU	5	HIS	CB-CA-C	-5.71	101.91	110.88
10	Cd	170	SER	O-C-N	5.71	129.88	123.19
7	Cj	5	HIS	CB-CA-C	-5.71	101.91	110.88
10	Cs	170	SER	O-C-N	5.71	129.88	123.19
7	Cy	5	HIS	CB-CA-C	-5.71	101.91	110.88
10	C2	59	ASP	N-CA-CB	5.71	117.71	110.23
10	C2	90	ARG	CB-CA-C	-5.71	101.67	110.81
10	CJ	59	ASP	N-CA-CB	5.71	117.71	110.23
10	CJ	90	ARG	CB-CA-C	-5.71	101.67	110.81
10	CY	59	ASP	N-CA-CB	5.71	117.71	110.23
10	CY	90	ARG	CB-CA-C	-5.71	101.67	110.81
10	Cn	59	ASP	N-CA-CB	5.71	117.71	110.23
10	Cn	90	ARG	CB-CA-C	-5.71	101.67	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AC	3	HIS	CA-CB-CG	5.71	119.51	113.80
1	AR	3	HIS	CA-CB-CG	5.71	119.51	113.80
1	Ag	3	HIS	CA-CB-CG	5.71	119.51	113.80
1	Av	3	HIS	CA-CB-CG	5.71	119.51	113.80
10	C2	170	SER	O-C-N	5.71	129.87	123.19
10	CJ	170	SER	O-C-N	5.71	129.87	123.19
10	CY	170	SER	O-C-N	5.71	129.87	123.19
10	Cn	170	SER	O-C-N	5.71	129.87	123.19
1	A5	3	HIS	CA-CB-CG	5.71	119.50	113.80
1	AM	3	HIS	CA-CB-CG	5.71	119.50	113.80
1	Ab	3	HIS	CA-CB-CG	5.71	119.50	113.80
1	Aq	3	HIS	CA-CB-CG	5.71	119.50	113.80
7	C3	5	HIS	CB-CA-C	-5.70	101.93	110.88
7	CK	5	HIS	CB-CA-C	-5.70	101.93	110.88
7	CZ	5	HIS	CB-CA-C	-5.70	101.93	110.88
7	Co	5	HIS	CB-CA-C	-5.70	101.93	110.88
4	BE	6	VAL	CB-CA-C	-5.70	104.68	111.81
4	BT	6	VAL	CB-CA-C	-5.70	104.68	111.81
4	Bi	6	VAL	CB-CA-C	-5.70	104.68	111.81
4	Bx	6	VAL	CB-CA-C	-5.70	104.68	111.81
1	A5	88	PRO	N-CA-C	5.70	117.65	110.70
1	AM	88	PRO	N-CA-C	5.70	117.65	110.70
1	Ab	88	PRO	N-CA-C	5.70	117.65	110.70
1	Aq	88	PRO	N-CA-C	5.70	117.65	110.70
4	B3	98	GLY	N-CA-C	-5.70	107.12	113.79
4	BK	98	GLY	N-CA-C	-5.70	107.12	113.79
4	BZ	98	GLY	N-CA-C	-5.70	107.12	113.79
4	Bo	98	GLY	N-CA-C	-5.70	107.12	113.79
1	A0	3	HIS	CA-CB-CG	5.70	119.50	113.80
1	AH	3	HIS	CA-CB-CG	5.70	119.50	113.80
1	AW	3	HIS	CA-CB-CG	5.70	119.50	113.80
1	Al	3	HIS	CA-CB-CG	5.70	119.50	113.80
10	C2	180	PRO	O-C-N	5.70	128.18	121.46
10	CJ	180	PRO	O-C-N	5.70	128.18	121.46
10	CY	180	PRO	O-C-N	5.70	128.18	121.46
10	Cn	180	PRO	O-C-N	5.70	128.18	121.46
1	AC	47	ILE	CA-C-N	5.69	125.54	119.28
1	AC	47	ILE	C-N-CA	5.69	125.54	119.28
1	AR	47	ILE	CA-C-N	5.69	125.54	119.28
1	AR	47	ILE	C-N-CA	5.69	125.54	119.28
1	Ag	47	ILE	CA-C-N	5.69	125.54	119.28
1	Ag	47	ILE	C-N-CA	5.69	125.54	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Av	47	ILE	CA-C-N	5.69	125.54	119.28
1	Av	47	ILE	C-N-CA	5.69	125.54	119.28
4	BA	98	GLY	N-CA-C	-5.69	107.13	113.79
4	BP	98	GLY	N-CA-C	-5.69	107.13	113.79
4	Be	98	GLY	N-CA-C	-5.69	107.13	113.79
4	Bt	98	GLY	N-CA-C	-5.69	107.13	113.79
1	A0	47	ILE	CA-C-N	5.69	125.54	119.28
1	A0	47	ILE	C-N-CA	5.69	125.54	119.28
1	AH	47	ILE	CA-C-N	5.69	125.54	119.28
1	AH	47	ILE	C-N-CA	5.69	125.54	119.28
1	AW	47	ILE	CA-C-N	5.69	125.54	119.28
1	AW	47	ILE	C-N-CA	5.69	125.54	119.28
1	Al	47	ILE	CA-C-N	5.69	125.54	119.28
1	Al	47	ILE	C-N-CA	5.69	125.54	119.28
10	C7	180	PRO	O-C-N	5.69	128.17	121.46
10	CO	180	PRO	O-C-N	5.69	128.17	121.46
10	Cd	180	PRO	O-C-N	5.69	128.17	121.46
10	Cs	180	PRO	O-C-N	5.69	128.17	121.46
1	A5	47	ILE	CA-C-N	5.68	125.53	119.28
1	A5	47	ILE	C-N-CA	5.68	125.53	119.28
1	AM	47	ILE	CA-C-N	5.68	125.53	119.28
1	AM	47	ILE	C-N-CA	5.68	125.53	119.28
1	Ab	47	ILE	CA-C-N	5.68	125.53	119.28
1	Ab	47	ILE	C-N-CA	5.68	125.53	119.28
1	Aq	47	ILE	CA-C-N	5.68	125.53	119.28
1	Aq	47	ILE	C-N-CA	5.68	125.53	119.28
10	C7	59	ASP	N-CA-CB	5.68	117.68	110.23
10	CO	59	ASP	N-CA-CB	5.68	117.68	110.23
10	Cd	59	ASP	N-CA-CB	5.68	117.68	110.23
10	Cs	59	ASP	N-CA-CB	5.68	117.68	110.23
4	B2	6	VAL	CB-CA-C	-5.68	104.71	111.81
4	BJ	6	VAL	CB-CA-C	-5.68	104.71	111.81
4	BY	6	VAL	CB-CA-C	-5.68	104.71	111.81
4	Bn	6	VAL	CB-CA-C	-5.68	104.71	111.81
9	C1	84	ASP	N-CA-C	-5.68	105.17	111.36
9	CI	84	ASP	N-CA-C	-5.68	105.17	111.36
9	CX	84	ASP	N-CA-C	-5.68	105.17	111.36
9	Cm	84	ASP	N-CA-C	-5.68	105.17	111.36
9	C6	84	ASP	N-CA-C	-5.67	105.18	111.36
9	CN	84	ASP	N-CA-C	-5.67	105.18	111.36
9	Cc	84	ASP	N-CA-C	-5.67	105.18	111.36
9	Cr	84	ASP	N-CA-C	-5.67	105.18	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	CC	183	LEU	N-CA-C	-5.67	105.01	111.07
8	CR	183	LEU	N-CA-C	-5.67	105.01	111.07
8	Cg	183	LEU	N-CA-C	-5.67	105.01	111.07
8	Cv	183	LEU	N-CA-C	-5.67	105.01	111.07
4	B7	6	VAL	CB-CA-C	-5.66	104.73	111.81
4	BO	6	VAL	CB-CA-C	-5.66	104.73	111.81
4	Bd	6	VAL	CB-CA-C	-5.66	104.73	111.81
4	Bs	6	VAL	CB-CA-C	-5.66	104.73	111.81
3	AF	8	SER	CA-C-N	5.66	128.32	120.29
3	AF	8	SER	C-N-CA	5.66	128.32	120.29
3	AU	8	SER	CA-C-N	5.66	128.32	120.29
3	AU	8	SER	C-N-CA	5.66	128.32	120.29
3	Aj	8	SER	CA-C-N	5.66	128.32	120.29
3	Aj	8	SER	C-N-CA	5.66	128.32	120.29
3	Ay	8	SER	CA-C-N	5.66	128.32	120.29
3	Ay	8	SER	C-N-CA	5.66	128.32	120.29
8	C5	183	LEU	N-CA-C	-5.65	105.02	111.07
8	CM	183	LEU	N-CA-C	-5.65	105.02	111.07
8	Cb	183	LEU	N-CA-C	-5.65	105.02	111.07
8	Cq	183	LEU	N-CA-C	-5.65	105.02	111.07
9	C1	186	ASP	CA-CB-CG	-5.65	106.95	112.60
9	CI	186	ASP	CA-CB-CG	-5.65	106.95	112.60
9	CX	186	ASP	CA-CB-CG	-5.65	106.95	112.60
9	Cm	186	ASP	CA-CB-CG	-5.65	106.95	112.60
3	AA	8	SER	CA-C-N	5.64	128.31	120.29
3	AA	8	SER	C-N-CA	5.64	128.31	120.29
3	AP	8	SER	CA-C-N	5.64	128.31	120.29
3	AP	8	SER	C-N-CA	5.64	128.31	120.29
3	Ae	8	SER	CA-C-N	5.64	128.31	120.29
3	Ae	8	SER	C-N-CA	5.64	128.31	120.29
3	At	8	SER	CA-C-N	5.64	128.31	120.29
3	At	8	SER	C-N-CA	5.64	128.31	120.29
9	CD	186	ASP	CA-CB-CG	-5.64	106.96	112.60
9	CS	186	ASP	CA-CB-CG	-5.64	106.96	112.60
9	Ch	186	ASP	CA-CB-CG	-5.64	106.96	112.60
9	Cw	186	ASP	CA-CB-CG	-5.64	106.96	112.60
3	A3	8	SER	CA-C-N	5.64	128.29	120.29
3	A3	8	SER	C-N-CA	5.64	128.29	120.29
3	AK	8	SER	CA-C-N	5.64	128.29	120.29
3	AK	8	SER	C-N-CA	5.64	128.29	120.29
3	AZ	8	SER	CA-C-N	5.64	128.29	120.29
3	AZ	8	SER	C-N-CA	5.64	128.29	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Ao	8	SER	CA-C-N	5.64	128.29	120.29
3	Ao	8	SER	C-N-CA	5.64	128.29	120.29
8	C0	183	LEU	N-CA-C	-5.63	105.05	111.07
10	C2	83	CYS	CA-C-N	5.63	128.09	120.38
10	C2	83	CYS	C-N-CA	5.63	128.09	120.38
9	C6	199	ARG	N-CA-CB	-5.63	101.83	110.16
10	C7	83	CYS	CA-C-N	5.63	128.09	120.38
10	C7	83	CYS	C-N-CA	5.63	128.09	120.38
8	CH	183	LEU	N-CA-C	-5.63	105.05	111.07
10	CJ	83	CYS	CA-C-N	5.63	128.09	120.38
10	CJ	83	CYS	C-N-CA	5.63	128.09	120.38
9	CN	199	ARG	N-CA-CB	-5.63	101.83	110.16
10	CO	83	CYS	CA-C-N	5.63	128.09	120.38
10	CO	83	CYS	C-N-CA	5.63	128.09	120.38
8	CW	183	LEU	N-CA-C	-5.63	105.05	111.07
10	CY	83	CYS	CA-C-N	5.63	128.09	120.38
10	CY	83	CYS	C-N-CA	5.63	128.09	120.38
9	Cc	199	ARG	N-CA-CB	-5.63	101.83	110.16
10	Cd	83	CYS	CA-C-N	5.63	128.09	120.38
10	Cd	83	CYS	C-N-CA	5.63	128.09	120.38
8	Cl	183	LEU	N-CA-C	-5.63	105.05	111.07
10	Cn	83	CYS	CA-C-N	5.63	128.09	120.38
10	Cn	83	CYS	C-N-CA	5.63	128.09	120.38
9	Cr	199	ARG	N-CA-CB	-5.63	101.83	110.16
10	Cs	83	CYS	CA-C-N	5.63	128.09	120.38
10	Cs	83	CYS	C-N-CA	5.63	128.09	120.38
10	C7	156	GLU	CB-CA-C	-5.62	102.23	110.95
9	CD	199	ARG	N-CA-CB	-5.62	101.83	110.16
10	CO	156	GLU	CB-CA-C	-5.62	102.23	110.95
9	CS	199	ARG	N-CA-CB	-5.62	101.83	110.16
10	Cd	156	GLU	CB-CA-C	-5.62	102.23	110.95
9	Ch	199	ARG	N-CA-CB	-5.62	101.83	110.16
10	Cs	156	GLU	CB-CA-C	-5.62	102.23	110.95
9	Cw	199	ARG	N-CA-CB	-5.62	101.83	110.16
9	C6	186	ASP	CA-CB-CG	-5.62	106.98	112.60
9	CN	186	ASP	CA-CB-CG	-5.62	106.98	112.60
9	Cc	186	ASP	CA-CB-CG	-5.62	106.98	112.60
9	Cr	186	ASP	CA-CB-CG	-5.62	106.98	112.60
9	C1	199	ARG	N-CA-CB	-5.62	101.84	110.16
9	CD	173	ASN	O-C-N	5.62	130.21	123.13
9	CI	199	ARG	N-CA-CB	-5.62	101.84	110.16
9	CS	173	ASN	O-C-N	5.62	130.21	123.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	CX	199	ARG	N-CA-CB	-5.62	101.84	110.16
9	Ch	173	ASN	O-C-N	5.62	130.21	123.13
9	Cm	199	ARG	N-CA-CB	-5.62	101.84	110.16
9	Cw	173	ASN	O-C-N	5.62	130.21	123.13
10	CE	83	CYS	CA-C-N	5.62	128.08	120.38
10	CE	83	CYS	C-N-CA	5.62	128.08	120.38
10	CT	83	CYS	CA-C-N	5.62	128.08	120.38
10	CT	83	CYS	C-N-CA	5.62	128.08	120.38
10	Ci	83	CYS	CA-C-N	5.62	128.08	120.38
10	Ci	83	CYS	C-N-CA	5.62	128.08	120.38
10	Cx	83	CYS	CA-C-N	5.62	128.08	120.38
10	Cx	83	CYS	C-N-CA	5.62	128.08	120.38
10	CE	156	GLU	CB-CA-C	-5.62	102.24	110.95
10	CT	156	GLU	CB-CA-C	-5.62	102.24	110.95
10	Ci	156	GLU	CB-CA-C	-5.62	102.24	110.95
10	Cx	156	GLU	CB-CA-C	-5.62	102.24	110.95
7	BB	22	LEU	N-CA-C	5.60	117.19	111.14
7	BQ	22	LEU	N-CA-C	5.60	117.19	111.14
7	Bf	22	LEU	N-CA-C	5.60	117.19	111.14
7	Bu	22	LEU	N-CA-C	5.60	117.19	111.14
9	C6	173	ASN	O-C-N	5.60	130.18	123.13
9	CN	173	ASN	O-C-N	5.60	130.18	123.13
9	Cc	173	ASN	O-C-N	5.60	130.18	123.13
9	Cr	173	ASN	O-C-N	5.60	130.18	123.13
7	B4	22	LEU	N-CA-C	5.59	117.18	111.14
7	BL	22	LEU	N-CA-C	5.59	117.18	111.14
7	Ba	22	LEU	N-CA-C	5.59	117.18	111.14
7	Bp	22	LEU	N-CA-C	5.59	117.18	111.14
1	AC	22	LEU	N-CA-C	5.59	117.18	111.14
1	AR	22	LEU	N-CA-C	5.59	117.18	111.14
1	Ag	22	LEU	N-CA-C	5.59	117.18	111.14
1	Av	22	LEU	N-CA-C	5.59	117.18	111.14
10	C2	156	GLU	CB-CA-C	-5.59	102.29	110.95
10	CJ	156	GLU	CB-CA-C	-5.59	102.29	110.95
10	CY	156	GLU	CB-CA-C	-5.59	102.29	110.95
10	Cn	156	GLU	CB-CA-C	-5.59	102.29	110.95
3	A3	27	PHE	CB-CG-CD2	-5.58	111.21	120.70
3	AK	27	PHE	CB-CG-CD2	-5.58	111.21	120.70
3	AZ	27	PHE	CB-CG-CD2	-5.58	111.21	120.70
3	Ao	27	PHE	CB-CG-CD2	-5.58	111.21	120.70
3	AF	27	PHE	CB-CA-C	-5.58	100.24	113.02
3	AU	27	PHE	CB-CA-C	-5.58	100.24	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Aj	27	PHE	CB-CA-C	-5.58	100.24	113.02
3	Ay	27	PHE	CB-CA-C	-5.58	100.24	113.02
9	C6	201	ASP	N-CA-C	-5.58	102.63	110.50
9	CN	201	ASP	N-CA-C	-5.58	102.63	110.50
9	Cc	201	ASP	N-CA-C	-5.58	102.63	110.50
9	Cr	201	ASP	N-CA-C	-5.58	102.63	110.50
7	BG	22	LEU	N-CA-C	5.58	117.16	111.14
7	BV	22	LEU	N-CA-C	5.58	117.16	111.14
7	Bk	22	LEU	N-CA-C	5.58	117.16	111.14
7	Bz	22	LEU	N-CA-C	5.58	117.16	111.14
3	AF	27	PHE	CB-CG-CD2	-5.58	111.22	120.70
3	AU	27	PHE	CB-CG-CD2	-5.58	111.22	120.70
3	Aj	27	PHE	CB-CG-CD2	-5.58	111.22	120.70
3	Ay	27	PHE	CB-CG-CD2	-5.58	111.22	120.70
3	A3	27	PHE	CB-CA-C	-5.57	100.26	113.02
3	AK	27	PHE	CB-CA-C	-5.57	100.26	113.02
3	AZ	27	PHE	CB-CA-C	-5.57	100.26	113.02
3	Ao	27	PHE	CB-CA-C	-5.57	100.26	113.02
9	C1	201	ASP	N-CA-C	-5.57	102.65	110.50
8	CC	210	VAL	CA-C-N	5.57	125.24	119.56
8	CC	210	VAL	C-N-CA	5.57	125.24	119.56
9	CD	201	ASP	N-CA-C	-5.57	102.65	110.50
9	CI	201	ASP	N-CA-C	-5.57	102.65	110.50
8	CR	210	VAL	CA-C-N	5.57	125.24	119.56
8	CR	210	VAL	C-N-CA	5.57	125.24	119.56
9	CS	201	ASP	N-CA-C	-5.57	102.65	110.50
9	CX	201	ASP	N-CA-C	-5.57	102.65	110.50
8	Cg	210	VAL	CA-C-N	5.57	125.24	119.56
8	Cg	210	VAL	C-N-CA	5.57	125.24	119.56
9	Ch	201	ASP	N-CA-C	-5.57	102.65	110.50
9	Cm	201	ASP	N-CA-C	-5.57	102.65	110.50
8	Cv	210	VAL	CA-C-N	5.57	125.24	119.56
8	Cv	210	VAL	C-N-CA	5.57	125.24	119.56
9	Cw	201	ASP	N-CA-C	-5.57	102.65	110.50
9	C1	173	ASN	O-C-N	5.57	130.15	123.13
9	CI	173	ASN	O-C-N	5.57	130.15	123.13
9	CX	173	ASN	O-C-N	5.57	130.15	123.13
9	Cm	173	ASN	O-C-N	5.57	130.15	123.13
3	AA	27	PHE	CB-CA-C	-5.57	100.27	113.02
3	AP	27	PHE	CB-CA-C	-5.57	100.27	113.02
3	Ae	27	PHE	CB-CA-C	-5.57	100.27	113.02
3	At	27	PHE	CB-CA-C	-5.57	100.27	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	AA	27	PHE	CB-CG-CD2	-5.56	111.25	120.70
3	AP	27	PHE	CB-CG-CD2	-5.56	111.25	120.70
3	Ae	27	PHE	CB-CG-CD2	-5.56	111.25	120.70
3	At	27	PHE	CB-CG-CD2	-5.56	111.25	120.70
4	BE	80	ASP	CA-CB-CG	-5.56	107.04	112.60
4	BT	80	ASP	CA-CB-CG	-5.56	107.04	112.60
4	Bi	80	ASP	CA-CB-CG	-5.56	107.04	112.60
4	Bx	80	ASP	CA-CB-CG	-5.56	107.04	112.60
9	C1	202	ASN	CA-CB-CG	-5.56	107.04	112.60
9	CI	202	ASN	CA-CB-CG	-5.56	107.04	112.60
9	CX	202	ASN	CA-CB-CG	-5.56	107.04	112.60
9	Cm	202	ASN	CA-CB-CG	-5.56	107.04	112.60
9	C1	143	ALA	CB-CA-C	-5.56	102.16	110.88
9	CI	143	ALA	CB-CA-C	-5.56	102.16	110.88
9	CX	143	ALA	CB-CA-C	-5.56	102.16	110.88
9	Cm	143	ALA	CB-CA-C	-5.56	102.16	110.88
9	CD	202	ASN	CA-CB-CG	-5.55	107.05	112.60
9	CS	202	ASN	CA-CB-CG	-5.55	107.05	112.60
9	Ch	202	ASN	CA-CB-CG	-5.55	107.05	112.60
9	Cw	202	ASN	CA-CB-CG	-5.55	107.05	112.60
1	AC	149	SER	N-CA-C	-5.55	105.39	111.82
1	AR	149	SER	N-CA-C	-5.55	105.39	111.82
1	Ag	149	SER	N-CA-C	-5.55	105.39	111.82
1	Av	149	SER	N-CA-C	-5.55	105.39	111.82
9	C6	143	ALA	CB-CA-C	-5.54	102.18	110.88
9	CN	143	ALA	CB-CA-C	-5.54	102.18	110.88
9	Cc	143	ALA	CB-CA-C	-5.54	102.18	110.88
9	Cr	143	ALA	CB-CA-C	-5.54	102.18	110.88
1	A0	149	SER	N-CA-C	-5.54	105.40	111.82
1	AH	149	SER	N-CA-C	-5.54	105.40	111.82
1	AW	149	SER	N-CA-C	-5.54	105.40	111.82
1	Al	149	SER	N-CA-C	-5.54	105.40	111.82
1	A5	22	LEU	N-CA-C	5.54	117.12	111.14
1	AM	22	LEU	N-CA-C	5.54	117.12	111.14
1	Ab	22	LEU	N-CA-C	5.54	117.12	111.14
1	Aq	22	LEU	N-CA-C	5.54	117.12	111.14
8	C5	210	VAL	CA-C-N	5.54	125.21	119.56
8	C5	210	VAL	C-N-CA	5.54	125.21	119.56
9	C6	202	ASN	CA-CB-CG	-5.54	107.06	112.60
8	CM	210	VAL	CA-C-N	5.54	125.21	119.56
8	CM	210	VAL	C-N-CA	5.54	125.21	119.56
9	CN	202	ASN	CA-CB-CG	-5.54	107.06	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	Cb	210	VAL	CA-C-N	5.54	125.21	119.56
8	Cb	210	VAL	C-N-CA	5.54	125.21	119.56
9	Cc	202	ASN	CA-CB-CG	-5.54	107.06	112.60
8	Cq	210	VAL	CA-C-N	5.54	125.21	119.56
8	Cq	210	VAL	C-N-CA	5.54	125.21	119.56
9	Cr	202	ASN	CA-CB-CG	-5.54	107.06	112.60
9	CD	143	ALA	CB-CA-C	-5.53	102.19	110.88
9	CS	143	ALA	CB-CA-C	-5.53	102.19	110.88
9	Ch	143	ALA	CB-CA-C	-5.53	102.19	110.88
9	Cw	143	ALA	CB-CA-C	-5.53	102.19	110.88
1	A5	149	SER	N-CA-C	-5.53	105.41	111.82
1	AM	149	SER	N-CA-C	-5.53	105.41	111.82
1	Ab	149	SER	N-CA-C	-5.53	105.41	111.82
1	Aq	149	SER	N-CA-C	-5.53	105.41	111.82
8	CC	214	LEU	CA-C-N	5.53	129.41	121.50
8	CC	214	LEU	C-N-CA	5.53	129.41	121.50
8	CR	214	LEU	CA-C-N	5.53	129.41	121.50
8	CR	214	LEU	C-N-CA	5.53	129.41	121.50
8	Cg	214	LEU	CA-C-N	5.53	129.41	121.50
8	Cg	214	LEU	C-N-CA	5.53	129.41	121.50
8	Cv	214	LEU	CA-C-N	5.53	129.41	121.50
8	Cv	214	LEU	C-N-CA	5.53	129.41	121.50
10	C7	16	LYS	CA-C-N	5.52	129.94	120.72
10	C7	16	LYS	C-N-CA	5.52	129.94	120.72
10	CO	16	LYS	CA-C-N	5.52	129.94	120.72
10	CO	16	LYS	C-N-CA	5.52	129.94	120.72
10	Cd	16	LYS	CA-C-N	5.52	129.94	120.72
10	Cd	16	LYS	C-N-CA	5.52	129.94	120.72
10	Cs	16	LYS	CA-C-N	5.52	129.94	120.72
10	Cs	16	LYS	C-N-CA	5.52	129.94	120.72
8	C0	214	LEU	CA-C-N	5.52	129.39	121.50
8	C0	214	LEU	C-N-CA	5.52	129.39	121.50
10	CE	16	LYS	CA-C-N	5.52	129.93	120.72
10	CE	16	LYS	C-N-CA	5.52	129.93	120.72
8	CH	214	LEU	CA-C-N	5.52	129.39	121.50
8	CH	214	LEU	C-N-CA	5.52	129.39	121.50
10	CT	16	LYS	CA-C-N	5.52	129.93	120.72
10	CT	16	LYS	C-N-CA	5.52	129.93	120.72
8	CW	214	LEU	CA-C-N	5.52	129.39	121.50
8	CW	214	LEU	C-N-CA	5.52	129.39	121.50
10	Ci	16	LYS	CA-C-N	5.52	129.93	120.72
10	Ci	16	LYS	C-N-CA	5.52	129.93	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	Cl	214	LEU	CA-C-N	5.52	129.39	121.50
8	Cl	214	LEU	C-N-CA	5.52	129.39	121.50
10	Cx	16	LYS	CA-C-N	5.52	129.93	120.72
10	Cx	16	LYS	C-N-CA	5.52	129.93	120.72
1	A0	22	LEU	N-CA-C	5.51	117.10	111.14
1	AH	22	LEU	N-CA-C	5.51	117.10	111.14
1	AW	22	LEU	N-CA-C	5.51	117.10	111.14
1	Al	22	LEU	N-CA-C	5.51	117.10	111.14
8	C0	210	VAL	CA-C-N	5.51	125.18	119.56
8	C0	210	VAL	C-N-CA	5.51	125.18	119.56
8	CC	84	ASP	N-CA-C	-5.51	105.43	111.82
8	CH	210	VAL	CA-C-N	5.51	125.18	119.56
8	CH	210	VAL	C-N-CA	5.51	125.18	119.56
8	CR	84	ASP	N-CA-C	-5.51	105.43	111.82
8	CW	210	VAL	CA-C-N	5.51	125.18	119.56
8	CW	210	VAL	C-N-CA	5.51	125.18	119.56
8	Cg	84	ASP	N-CA-C	-5.51	105.43	111.82
8	Cl	210	VAL	CA-C-N	5.51	125.18	119.56
8	Cl	210	VAL	C-N-CA	5.51	125.18	119.56
8	Cv	84	ASP	N-CA-C	-5.51	105.43	111.82
8	C0	84	ASP	N-CA-C	-5.51	105.43	111.82
8	CH	84	ASP	N-CA-C	-5.51	105.43	111.82
8	CW	84	ASP	N-CA-C	-5.51	105.43	111.82
8	Cl	84	ASP	N-CA-C	-5.51	105.43	111.82
4	B2	80	ASP	CA-CB-CG	-5.51	107.09	112.60
4	BJ	80	ASP	CA-CB-CG	-5.51	107.09	112.60
4	BY	80	ASP	CA-CB-CG	-5.51	107.09	112.60
4	Bn	80	ASP	CA-CB-CG	-5.51	107.09	112.60
8	CC	140	PHE	CA-CB-CG	5.51	119.31	113.80
8	CR	140	PHE	CA-CB-CG	5.51	119.31	113.80
8	Cg	140	PHE	CA-CB-CG	5.51	119.31	113.80
8	Cv	140	PHE	CA-CB-CG	5.51	119.31	113.80
10	C2	87	ASN	CA-CB-CG	-5.50	107.10	112.60
8	C5	214	LEU	CA-C-N	5.50	129.37	121.50
8	C5	214	LEU	C-N-CA	5.50	129.37	121.50
10	CJ	87	ASN	CA-CB-CG	-5.50	107.10	112.60
8	CM	214	LEU	CA-C-N	5.50	129.37	121.50
8	CM	214	LEU	C-N-CA	5.50	129.37	121.50
10	CY	87	ASN	CA-CB-CG	-5.50	107.10	112.60
8	Cb	214	LEU	CA-C-N	5.50	129.37	121.50
8	Cb	214	LEU	C-N-CA	5.50	129.37	121.50
10	Cn	87	ASN	CA-CB-CG	-5.50	107.10	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	Cq	214	LEU	CA-C-N	5.50	129.37	121.50
8	Cq	214	LEU	C-N-CA	5.50	129.37	121.50
10	C7	87	ASN	CA-CB-CG	-5.50	107.10	112.60
10	CO	87	ASN	CA-CB-CG	-5.50	107.10	112.60
10	Cd	87	ASN	CA-CB-CG	-5.50	107.10	112.60
10	Cs	87	ASN	CA-CB-CG	-5.50	107.10	112.60
4	B7	80	ASP	CA-CB-CG	-5.49	107.11	112.60
4	BO	80	ASP	CA-CB-CG	-5.49	107.11	112.60
4	Bd	80	ASP	CA-CB-CG	-5.49	107.11	112.60
4	Bs	80	ASP	CA-CB-CG	-5.49	107.11	112.60
4	AG	3	GLN	CB-CA-C	-5.48	100.60	110.36
4	AV	3	GLN	CB-CA-C	-5.48	100.60	110.36
4	Ak	3	GLN	CB-CA-C	-5.48	100.60	110.36
4	Az	3	GLN	CB-CA-C	-5.48	100.60	110.36
10	C2	16	LYS	CA-C-N	5.48	129.88	120.72
10	C2	16	LYS	C-N-CA	5.48	129.88	120.72
10	CE	104	ALA	N-CA-C	-5.48	99.74	109.06
10	CJ	16	LYS	CA-C-N	5.48	129.88	120.72
10	CJ	16	LYS	C-N-CA	5.48	129.88	120.72
10	CT	104	ALA	N-CA-C	-5.48	99.74	109.06
10	CY	16	LYS	CA-C-N	5.48	129.88	120.72
10	CY	16	LYS	C-N-CA	5.48	129.88	120.72
10	Ci	104	ALA	N-CA-C	-5.48	99.74	109.06
10	Cn	16	LYS	CA-C-N	5.48	129.88	120.72
10	Cn	16	LYS	C-N-CA	5.48	129.88	120.72
10	Cx	104	ALA	N-CA-C	-5.48	99.74	109.06
10	CE	87	ASN	CA-CB-CG	-5.48	107.12	112.60
10	CT	87	ASN	CA-CB-CG	-5.48	107.12	112.60
10	Ci	87	ASN	CA-CB-CG	-5.48	107.12	112.60
10	Cx	87	ASN	CA-CB-CG	-5.48	107.12	112.60
4	A4	3	GLN	CB-CA-C	-5.48	100.61	110.36
4	AL	3	GLN	CB-CA-C	-5.48	100.61	110.36
4	Aa	3	GLN	CB-CA-C	-5.48	100.61	110.36
4	Ap	3	GLN	CB-CA-C	-5.48	100.61	110.36
10	C2	104	ALA	N-CA-C	-5.47	99.75	109.06
8	CC	11	GLN	CB-CG-CD	-5.47	103.30	112.60
10	CJ	104	ALA	N-CA-C	-5.47	99.75	109.06
8	CR	11	GLN	CB-CG-CD	-5.47	103.30	112.60
10	CY	104	ALA	N-CA-C	-5.47	99.75	109.06
8	Cg	11	GLN	CB-CG-CD	-5.47	103.30	112.60
10	Cn	104	ALA	N-CA-C	-5.47	99.75	109.06
8	Cv	11	GLN	CB-CG-CD	-5.47	103.30	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	C7	104	ALA	N-CA-C	-5.47	99.76	109.06
10	C7	136	ALA	CA-C-N	5.47	129.98	120.68
10	C7	136	ALA	C-N-CA	5.47	129.98	120.68
10	CO	104	ALA	N-CA-C	-5.47	99.76	109.06
10	CO	136	ALA	CA-C-N	5.47	129.98	120.68
10	CO	136	ALA	C-N-CA	5.47	129.98	120.68
10	Cd	104	ALA	N-CA-C	-5.47	99.76	109.06
10	Cd	136	ALA	CA-C-N	5.47	129.98	120.68
10	Cd	136	ALA	C-N-CA	5.47	129.98	120.68
10	Cs	104	ALA	N-CA-C	-5.47	99.76	109.06
10	Cs	136	ALA	CA-C-N	5.47	129.98	120.68
10	Cs	136	ALA	C-N-CA	5.47	129.98	120.68
4	AB	3	GLN	CB-CA-C	-5.47	100.63	110.36
4	AQ	3	GLN	CB-CA-C	-5.47	100.63	110.36
4	Af	3	GLN	CB-CA-C	-5.47	100.63	110.36
4	Au	3	GLN	CB-CA-C	-5.47	100.63	110.36
8	C5	84	ASP	N-CA-C	-5.47	105.48	111.82
10	CE	136	ALA	CA-C-N	5.47	129.97	120.68
10	CE	136	ALA	C-N-CA	5.47	129.97	120.68
8	CM	84	ASP	N-CA-C	-5.47	105.48	111.82
10	CT	136	ALA	CA-C-N	5.47	129.97	120.68
10	CT	136	ALA	C-N-CA	5.47	129.97	120.68
8	Cb	84	ASP	N-CA-C	-5.47	105.48	111.82
10	Ci	136	ALA	CA-C-N	5.47	129.97	120.68
10	Ci	136	ALA	C-N-CA	5.47	129.97	120.68
8	Cq	84	ASP	N-CA-C	-5.47	105.48	111.82
10	Cx	136	ALA	CA-C-N	5.47	129.97	120.68
10	Cx	136	ALA	C-N-CA	5.47	129.97	120.68
9	C1	141	PHE	CA-CB-CG	-5.46	108.34	113.80
9	CI	141	PHE	CA-CB-CG	-5.46	108.34	113.80
9	CX	141	PHE	CA-CB-CG	-5.46	108.34	113.80
9	Cm	141	PHE	CA-CB-CG	-5.46	108.34	113.80
8	C5	11	GLN	CB-CG-CD	-5.46	103.32	112.60
8	CM	11	GLN	CB-CG-CD	-5.46	103.32	112.60
8	Cb	11	GLN	CB-CG-CD	-5.46	103.32	112.60
8	Cq	11	GLN	CB-CG-CD	-5.46	103.32	112.60
8	C0	11	GLN	CB-CG-CD	-5.46	103.33	112.60
8	CH	11	GLN	CB-CG-CD	-5.46	103.33	112.60
8	CW	11	GLN	CB-CG-CD	-5.46	103.33	112.60
8	Cl	11	GLN	CB-CG-CD	-5.46	103.33	112.60
10	C2	136	ALA	CA-C-N	5.45	129.94	120.68
10	C2	136	ALA	C-N-CA	5.45	129.94	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	CJ	136	ALA	CA-C-N	5.45	129.94	120.68
10	CJ	136	ALA	C-N-CA	5.45	129.94	120.68
10	CY	136	ALA	CA-C-N	5.45	129.94	120.68
10	CY	136	ALA	C-N-CA	5.45	129.94	120.68
10	Cn	136	ALA	CA-C-N	5.45	129.94	120.68
10	Cn	136	ALA	C-N-CA	5.45	129.94	120.68
10	C7	97	ASP	CA-CB-CG	-5.44	107.16	112.60
10	CO	97	ASP	CA-CB-CG	-5.44	107.16	112.60
10	Cd	97	ASP	CA-CB-CG	-5.44	107.16	112.60
10	Cs	97	ASP	CA-CB-CG	-5.44	107.16	112.60
5	CB	138	CYS	N-CA-C	5.44	119.87	112.04
5	CQ	138	CYS	N-CA-C	5.44	119.87	112.04
5	Cf	138	CYS	N-CA-C	5.44	119.87	112.04
5	Cu	138	CYS	N-CA-C	5.44	119.87	112.04
5	C4	138	CYS	N-CA-C	5.44	119.87	112.04
5	CL	138	CYS	N-CA-C	5.44	119.87	112.04
5	Ca	138	CYS	N-CA-C	5.44	119.87	112.04
5	Cp	138	CYS	N-CA-C	5.44	119.87	112.04
8	C0	140	PHE	CA-CB-CG	5.43	119.23	113.80
9	CD	141	PHE	CA-CB-CG	-5.43	108.37	113.80
5	CG	138	CYS	N-CA-C	5.43	119.87	112.04
8	CH	140	PHE	CA-CB-CG	5.43	119.23	113.80
9	CS	141	PHE	CA-CB-CG	-5.43	108.37	113.80
5	CV	138	CYS	N-CA-C	5.43	119.87	112.04
8	CW	140	PHE	CA-CB-CG	5.43	119.23	113.80
9	Ch	141	PHE	CA-CB-CG	-5.43	108.37	113.80
5	Ck	138	CYS	N-CA-C	5.43	119.87	112.04
8	Cl	140	PHE	CA-CB-CG	5.43	119.23	113.80
9	Cw	141	PHE	CA-CB-CG	-5.43	108.37	113.80
5	Cz	138	CYS	N-CA-C	5.43	119.87	112.04
8	CC	79	ASP	CA-CB-CG	-5.43	107.17	112.60
8	CR	79	ASP	CA-CB-CG	-5.43	107.17	112.60
8	Cg	79	ASP	CA-CB-CG	-5.43	107.17	112.60
8	Cv	79	ASP	CA-CB-CG	-5.43	107.17	112.60
8	C0	73	VAL	CA-C-N	5.42	125.25	119.28
8	C0	73	VAL	C-N-CA	5.42	125.25	119.28
8	CH	73	VAL	CA-C-N	5.42	125.25	119.28
8	CH	73	VAL	C-N-CA	5.42	125.25	119.28
8	CW	73	VAL	CA-C-N	5.42	125.25	119.28
8	CW	73	VAL	C-N-CA	5.42	125.25	119.28
8	Cl	73	VAL	CA-C-N	5.42	125.25	119.28
8	Cl	73	VAL	C-N-CA	5.42	125.25	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	C2	97	ASP	CA-CB-CG	-5.42	107.18	112.60
8	C5	140	PHE	CA-CB-CG	5.42	119.22	113.80
10	CJ	97	ASP	CA-CB-CG	-5.42	107.18	112.60
8	CM	140	PHE	CA-CB-CG	5.42	119.22	113.80
10	CY	97	ASP	CA-CB-CG	-5.42	107.18	112.60
8	Cb	140	PHE	CA-CB-CG	5.42	119.22	113.80
10	Cn	97	ASP	CA-CB-CG	-5.42	107.18	112.60
8	Cq	140	PHE	CA-CB-CG	5.42	119.22	113.80
9	C6	141	PHE	CA-CB-CG	-5.42	108.38	113.80
9	CN	141	PHE	CA-CB-CG	-5.42	108.38	113.80
9	Cc	141	PHE	CA-CB-CG	-5.42	108.38	113.80
9	Cr	141	PHE	CA-CB-CG	-5.42	108.38	113.80
8	CC	73	VAL	CA-C-N	5.41	125.23	119.28
8	CC	73	VAL	C-N-CA	5.41	125.23	119.28
8	CR	73	VAL	CA-C-N	5.41	125.23	119.28
8	CR	73	VAL	C-N-CA	5.41	125.23	119.28
8	Cg	73	VAL	CA-C-N	5.41	125.23	119.28
8	Cg	73	VAL	C-N-CA	5.41	125.23	119.28
8	Cv	73	VAL	CA-C-N	5.41	125.23	119.28
8	Cv	73	VAL	C-N-CA	5.41	125.23	119.28
4	BE	101	ILE	N-CA-CB	5.41	118.78	111.21
4	BT	101	ILE	N-CA-CB	5.41	118.78	111.21
4	Bi	101	ILE	N-CA-CB	5.41	118.78	111.21
4	Bx	101	ILE	N-CA-CB	5.41	118.78	111.21
8	C0	79	ASP	CA-CB-CG	-5.41	107.19	112.60
9	CD	72	ASN	CB-CA-C	-5.41	102.64	110.96
8	CH	79	ASP	CA-CB-CG	-5.41	107.19	112.60
9	CS	72	ASN	CB-CA-C	-5.41	102.64	110.96
8	CW	79	ASP	CA-CB-CG	-5.41	107.19	112.60
9	Ch	72	ASN	CB-CA-C	-5.41	102.64	110.96
8	Cl	79	ASP	CA-CB-CG	-5.41	107.19	112.60
9	Cw	72	ASN	CB-CA-C	-5.41	102.64	110.96
4	B2	101	ILE	N-CA-CB	5.40	118.77	111.21
4	BJ	101	ILE	N-CA-CB	5.40	118.77	111.21
4	BY	101	ILE	N-CA-CB	5.40	118.77	111.21
4	Bn	101	ILE	N-CA-CB	5.40	118.77	111.21
10	C7	207	GLU	CB-CG-CD	-5.40	103.42	112.60
7	CA	148	SER	CA-C-N	5.40	127.52	120.28
7	CA	148	SER	C-N-CA	5.40	127.52	120.28
10	CO	207	GLU	CB-CG-CD	-5.40	103.42	112.60
7	CP	148	SER	CA-C-N	5.40	127.52	120.28
7	CP	148	SER	C-N-CA	5.40	127.52	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	Cd	207	GLU	CB-CG-CD	-5.40	103.42	112.60
7	Ce	148	SER	CA-C-N	5.40	127.52	120.28
7	Ce	148	SER	C-N-CA	5.40	127.52	120.28
10	Cs	207	GLU	CB-CG-CD	-5.40	103.42	112.60
7	Ct	148	SER	CA-C-N	5.40	127.52	120.28
7	Ct	148	SER	C-N-CA	5.40	127.52	120.28
9	C6	72	ASN	CB-CA-C	-5.40	102.64	110.96
9	CN	72	ASN	CB-CA-C	-5.40	102.64	110.96
9	Cc	72	ASN	CB-CA-C	-5.40	102.64	110.96
9	Cr	72	ASN	CB-CA-C	-5.40	102.64	110.96
8	C0	140	PHE	CB-CA-C	-5.40	98.71	109.99
8	C5	145	VAL	N-CA-C	-5.40	104.17	110.05
8	CH	140	PHE	CB-CA-C	-5.40	98.71	109.99
8	CM	145	VAL	N-CA-C	-5.40	104.17	110.05
8	CW	140	PHE	CB-CA-C	-5.40	98.71	109.99
8	Cb	145	VAL	N-CA-C	-5.40	104.17	110.05
8	Cl	140	PHE	CB-CA-C	-5.40	98.71	109.99
8	Cq	145	VAL	N-CA-C	-5.40	104.17	110.05
7	CF	148	SER	CA-C-N	5.40	127.51	120.28
7	CF	148	SER	C-N-CA	5.40	127.51	120.28
7	CU	148	SER	CA-C-N	5.40	127.51	120.28
7	CU	148	SER	C-N-CA	5.40	127.51	120.28
7	Cj	148	SER	CA-C-N	5.40	127.51	120.28
7	Cj	148	SER	C-N-CA	5.40	127.51	120.28
7	Cy	148	SER	CA-C-N	5.40	127.51	120.28
7	Cy	148	SER	C-N-CA	5.40	127.51	120.28
8	CC	124	ASN	CA-CB-CG	-5.39	107.21	112.60
8	CC	145	VAL	N-CA-C	-5.39	104.17	110.05
8	CR	124	ASN	CA-CB-CG	-5.39	107.21	112.60
8	CR	145	VAL	N-CA-C	-5.39	104.17	110.05
8	Cg	124	ASN	CA-CB-CG	-5.39	107.21	112.60
8	Cg	145	VAL	N-CA-C	-5.39	104.17	110.05
8	Cv	124	ASN	CA-CB-CG	-5.39	107.21	112.60
8	Cv	145	VAL	N-CA-C	-5.39	104.17	110.05
9	C1	72	ASN	CB-CA-C	-5.39	102.65	110.96
8	C5	140	PHE	CB-CA-C	-5.39	98.72	109.99
8	CC	140	PHE	CB-CA-C	-5.39	98.72	109.99
9	CI	72	ASN	CB-CA-C	-5.39	102.65	110.96
8	CM	140	PHE	CB-CA-C	-5.39	98.72	109.99
8	CR	140	PHE	CB-CA-C	-5.39	98.72	109.99
9	CX	72	ASN	CB-CA-C	-5.39	102.65	110.96
8	Cb	140	PHE	CB-CA-C	-5.39	98.72	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	Cg	140	PHE	CB-CA-C	-5.39	98.72	109.99
9	Cm	72	ASN	CB-CA-C	-5.39	102.65	110.96
8	Cq	140	PHE	CB-CA-C	-5.39	98.72	109.99
8	Cv	140	PHE	CB-CA-C	-5.39	98.72	109.99
8	C5	79	ASP	CA-CB-CG	-5.39	107.21	112.60
8	CM	79	ASP	CA-CB-CG	-5.39	107.21	112.60
8	Cb	79	ASP	CA-CB-CG	-5.39	107.21	112.60
8	Cq	79	ASP	CA-CB-CG	-5.39	107.21	112.60
8	C0	145	VAL	N-CA-C	-5.39	104.18	110.05
10	C2	207	GLU	CB-CG-CD	-5.39	103.44	112.60
10	CE	207	GLU	CB-CG-CD	-5.39	103.44	112.60
8	CH	145	VAL	N-CA-C	-5.39	104.18	110.05
10	CJ	207	GLU	CB-CG-CD	-5.39	103.44	112.60
10	CT	207	GLU	CB-CG-CD	-5.39	103.44	112.60
8	CW	145	VAL	N-CA-C	-5.39	104.18	110.05
10	CY	207	GLU	CB-CG-CD	-5.39	103.44	112.60
10	Ci	207	GLU	CB-CG-CD	-5.39	103.44	112.60
8	Cl	145	VAL	N-CA-C	-5.39	104.18	110.05
10	Cn	207	GLU	CB-CG-CD	-5.39	103.44	112.60
10	Cx	207	GLU	CB-CG-CD	-5.39	103.44	112.60
10	C2	195	TYR	O-C-N	5.38	127.90	122.09
10	CJ	195	TYR	O-C-N	5.38	127.90	122.09
10	CY	195	TYR	O-C-N	5.38	127.90	122.09
10	Cn	195	TYR	O-C-N	5.38	127.90	122.09
9	C1	72	ASN	CA-CB-CG	-5.38	107.22	112.60
8	C5	73	VAL	CA-C-N	5.38	125.20	119.28
8	C5	73	VAL	C-N-CA	5.38	125.20	119.28
9	CI	72	ASN	CA-CB-CG	-5.38	107.22	112.60
8	CM	73	VAL	CA-C-N	5.38	125.20	119.28
8	CM	73	VAL	C-N-CA	5.38	125.20	119.28
9	CX	72	ASN	CA-CB-CG	-5.38	107.22	112.60
8	Cb	73	VAL	CA-C-N	5.38	125.20	119.28
8	Cb	73	VAL	C-N-CA	5.38	125.20	119.28
9	Cm	72	ASN	CA-CB-CG	-5.38	107.22	112.60
8	Cq	73	VAL	CA-C-N	5.38	125.20	119.28
8	Cq	73	VAL	C-N-CA	5.38	125.20	119.28
3	AA	150	LEU	N-CA-C	-5.38	105.52	113.16
3	AP	150	LEU	N-CA-C	-5.38	105.52	113.16
3	Ae	150	LEU	N-CA-C	-5.38	105.52	113.16
3	At	150	LEU	N-CA-C	-5.38	105.52	113.16
4	B7	101	ILE	N-CA-CB	5.38	118.74	111.21
4	BO	101	ILE	N-CA-CB	5.38	118.74	111.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Bd	101	ILE	N-CA-CB	5.38	118.74	111.21
4	Bs	101	ILE	N-CA-CB	5.38	118.74	111.21
10	CE	97	ASP	CA-CB-CG	-5.38	107.22	112.60
10	CT	97	ASP	CA-CB-CG	-5.38	107.22	112.60
10	Ci	97	ASP	CA-CB-CG	-5.38	107.22	112.60
10	Cx	97	ASP	CA-CB-CG	-5.38	107.22	112.60
9	CD	72	ASN	CA-CB-CG	-5.38	107.22	112.60
9	CS	72	ASN	CA-CB-CG	-5.38	107.22	112.60
9	Ch	72	ASN	CA-CB-CG	-5.38	107.22	112.60
9	Cw	72	ASN	CA-CB-CG	-5.38	107.22	112.60
7	C3	148	SER	CA-C-N	5.37	127.48	120.28
7	C3	148	SER	C-N-CA	5.37	127.48	120.28
7	CK	148	SER	CA-C-N	5.37	127.48	120.28
7	CK	148	SER	C-N-CA	5.37	127.48	120.28
7	CZ	148	SER	CA-C-N	5.37	127.48	120.28
7	CZ	148	SER	C-N-CA	5.37	127.48	120.28
7	Co	148	SER	CA-C-N	5.37	127.48	120.28
7	Co	148	SER	C-N-CA	5.37	127.48	120.28
8	C5	124	ASN	CA-CB-CG	-5.37	107.23	112.60
8	CM	124	ASN	CA-CB-CG	-5.37	107.23	112.60
8	Cb	124	ASN	CA-CB-CG	-5.37	107.23	112.60
8	Cq	124	ASN	CA-CB-CG	-5.37	107.23	112.60
9	C1	188	ASP	CA-C-N	5.37	130.45	122.82
9	C1	188	ASP	C-N-CA	5.37	130.45	122.82
9	C6	72	ASN	CA-CB-CG	-5.37	107.23	112.60
9	CI	188	ASP	CA-C-N	5.37	130.45	122.82
9	CI	188	ASP	C-N-CA	5.37	130.45	122.82
9	CN	72	ASN	CA-CB-CG	-5.37	107.23	112.60
9	CX	188	ASP	CA-C-N	5.37	130.45	122.82
9	CX	188	ASP	C-N-CA	5.37	130.45	122.82
9	Cc	72	ASN	CA-CB-CG	-5.37	107.23	112.60
9	Cm	188	ASP	CA-C-N	5.37	130.45	122.82
9	Cm	188	ASP	C-N-CA	5.37	130.45	122.82
9	Cr	72	ASN	CA-CB-CG	-5.37	107.23	112.60
9	C6	76	CYS	N-CA-C	5.37	118.56	109.76
9	CN	76	CYS	N-CA-C	5.37	118.56	109.76
9	Cc	76	CYS	N-CA-C	5.37	118.56	109.76
9	Cr	76	CYS	N-CA-C	5.37	118.56	109.76
9	CD	76	CYS	N-CA-C	5.37	118.56	109.76
9	CS	76	CYS	N-CA-C	5.37	118.56	109.76
9	Ch	76	CYS	N-CA-C	5.37	118.56	109.76
9	Cw	76	CYS	N-CA-C	5.37	118.56	109.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	C0	124	ASN	CA-CB-CG	-5.37	107.23	112.60
10	CE	195	TYR	O-C-N	5.37	127.89	122.09
8	CH	124	ASN	CA-CB-CG	-5.37	107.23	112.60
10	CT	195	TYR	O-C-N	5.37	127.89	122.09
8	CW	124	ASN	CA-CB-CG	-5.37	107.23	112.60
10	Ci	195	TYR	O-C-N	5.37	127.89	122.09
8	Cl	124	ASN	CA-CB-CG	-5.37	107.23	112.60
10	Cx	195	TYR	O-C-N	5.37	127.89	122.09
9	C1	76	CYS	N-CA-C	5.36	118.55	109.76
9	CI	76	CYS	N-CA-C	5.36	118.55	109.76
9	CX	76	CYS	N-CA-C	5.36	118.55	109.76
9	Cm	76	CYS	N-CA-C	5.36	118.55	109.76
10	C2	138	PHE	CB-CA-C	-5.36	102.21	110.78
10	CJ	138	PHE	CB-CA-C	-5.36	102.21	110.78
10	CY	138	PHE	CB-CA-C	-5.36	102.21	110.78
10	Cn	138	PHE	CB-CA-C	-5.36	102.21	110.78
4	AB	6	VAL	CB-CA-C	-5.36	105.11	111.81
3	AF	150	LEU	N-CA-C	-5.36	105.55	113.16
4	AQ	6	VAL	CB-CA-C	-5.36	105.11	111.81
3	AU	150	LEU	N-CA-C	-5.36	105.55	113.16
4	Af	6	VAL	CB-CA-C	-5.36	105.11	111.81
3	Aj	150	LEU	N-CA-C	-5.36	105.55	113.16
4	Au	6	VAL	CB-CA-C	-5.36	105.11	111.81
3	Ay	150	LEU	N-CA-C	-5.36	105.55	113.16
10	CE	138	PHE	CB-CA-C	-5.36	102.21	110.78
10	CT	138	PHE	CB-CA-C	-5.36	102.21	110.78
10	Ci	138	PHE	CB-CA-C	-5.36	102.21	110.78
10	Cx	138	PHE	CB-CA-C	-5.36	102.21	110.78
3	A3	150	LEU	N-CA-C	-5.36	105.56	113.16
3	AK	150	LEU	N-CA-C	-5.36	105.56	113.16
3	AZ	150	LEU	N-CA-C	-5.36	105.56	113.16
3	Ao	150	LEU	N-CA-C	-5.36	105.56	113.16
10	C7	195	TYR	O-C-N	5.36	127.88	122.09
10	CO	195	TYR	O-C-N	5.36	127.88	122.09
10	Cd	195	TYR	O-C-N	5.36	127.88	122.09
10	Cs	195	TYR	O-C-N	5.36	127.88	122.09
4	A4	6	VAL	CB-CA-C	-5.35	105.12	111.81
4	AL	6	VAL	CB-CA-C	-5.35	105.12	111.81
4	Aa	6	VAL	CB-CA-C	-5.35	105.12	111.81
4	Ap	6	VAL	CB-CA-C	-5.35	105.12	111.81
9	C6	188	ASP	CA-C-N	5.35	130.42	122.82
9	C6	188	ASP	C-N-CA	5.35	130.42	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	CN	188	ASP	CA-C-N	5.35	130.42	122.82
9	CN	188	ASP	C-N-CA	5.35	130.42	122.82
9	Cc	188	ASP	CA-C-N	5.35	130.42	122.82
9	Cc	188	ASP	C-N-CA	5.35	130.42	122.82
9	Cr	188	ASP	CA-C-N	5.35	130.42	122.82
9	Cr	188	ASP	C-N-CA	5.35	130.42	122.82
5	BC	10	LEU	N-CA-CB	5.35	118.75	110.46
5	BR	10	LEU	N-CA-CB	5.35	118.75	110.46
5	Bg	10	LEU	N-CA-CB	5.35	118.75	110.46
5	Bv	10	LEU	N-CA-CB	5.35	118.75	110.46
5	BC	104	ARG	CA-C-N	-5.35	113.77	121.42
5	BC	104	ARG	C-N-CA	-5.35	113.77	121.42
5	BR	104	ARG	CA-C-N	-5.35	113.77	121.42
5	BR	104	ARG	C-N-CA	-5.35	113.77	121.42
5	Bg	104	ARG	CA-C-N	-5.35	113.77	121.42
5	Bg	104	ARG	C-N-CA	-5.35	113.77	121.42
5	Bv	104	ARG	CA-C-N	-5.35	113.77	121.42
5	Bv	104	ARG	C-N-CA	-5.35	113.77	121.42
5	B5	10	LEU	N-CA-CB	5.35	118.75	110.46
5	BM	10	LEU	N-CA-CB	5.35	118.75	110.46
5	Bb	10	LEU	N-CA-CB	5.35	118.75	110.46
5	Bq	10	LEU	N-CA-CB	5.35	118.75	110.46
10	C7	138	PHE	CB-CA-C	-5.34	102.23	110.78
10	CO	138	PHE	CB-CA-C	-5.34	102.23	110.78
10	Cd	138	PHE	CB-CA-C	-5.34	102.23	110.78
10	Cs	138	PHE	CB-CA-C	-5.34	102.23	110.78
4	AG	6	VAL	CB-CA-C	-5.34	105.13	111.81
4	AV	6	VAL	CB-CA-C	-5.34	105.13	111.81
4	Ak	6	VAL	CB-CA-C	-5.34	105.13	111.81
4	Az	6	VAL	CB-CA-C	-5.34	105.13	111.81
5	B5	104	ARG	CA-C-N	-5.34	113.79	121.42
5	B5	104	ARG	C-N-CA	-5.34	113.79	121.42
5	BM	104	ARG	CA-C-N	-5.34	113.79	121.42
5	BM	104	ARG	C-N-CA	-5.34	113.79	121.42
5	Bb	104	ARG	CA-C-N	-5.34	113.79	121.42
5	Bb	104	ARG	C-N-CA	-5.34	113.79	121.42
5	Bq	104	ARG	CA-C-N	-5.34	113.79	121.42
5	Bq	104	ARG	C-N-CA	-5.34	113.79	121.42
9	CD	188	ASP	CA-C-N	5.33	130.40	122.82
9	CD	188	ASP	C-N-CA	5.33	130.40	122.82
9	CS	188	ASP	CA-C-N	5.33	130.40	122.82
9	CS	188	ASP	C-N-CA	5.33	130.40	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	Ch	188	ASP	CA-C-N	5.33	130.40	122.82
9	Ch	188	ASP	C-N-CA	5.33	130.40	122.82
9	Cw	188	ASP	CA-C-N	5.33	130.40	122.82
9	Cw	188	ASP	C-N-CA	5.33	130.40	122.82
5	B0	104	ARG	CA-C-N	-5.33	113.79	121.42
5	B0	104	ARG	C-N-CA	-5.33	113.79	121.42
5	BH	104	ARG	CA-C-N	-5.33	113.79	121.42
5	BH	104	ARG	C-N-CA	-5.33	113.79	121.42
5	BW	104	ARG	CA-C-N	-5.33	113.79	121.42
5	BW	104	ARG	C-N-CA	-5.33	113.79	121.42
5	Bl	104	ARG	CA-C-N	-5.33	113.79	121.42
5	Bl	104	ARG	C-N-CA	-5.33	113.79	121.42
6	B6	150	LEU	N-CA-CB	5.33	118.69	110.43
6	BN	150	LEU	N-CA-CB	5.33	118.69	110.43
6	Bc	150	LEU	N-CA-CB	5.33	118.69	110.43
6	Br	150	LEU	N-CA-CB	5.33	118.69	110.43
5	B0	10	LEU	N-CA-CB	5.32	118.70	110.46
7	BB	150	ARG	N-CA-C	-5.32	102.41	110.28
5	BH	10	LEU	N-CA-CB	5.32	118.70	110.46
7	BQ	150	ARG	N-CA-C	-5.32	102.41	110.28
5	BW	10	LEU	N-CA-CB	5.32	118.70	110.46
7	Bf	150	ARG	N-CA-C	-5.32	102.41	110.28
5	Bl	10	LEU	N-CA-CB	5.32	118.70	110.46
7	Bu	150	ARG	N-CA-C	-5.32	102.41	110.28
9	CD	59	GLY	CA-C-N	-5.32	114.22	122.09
9	CD	59	GLY	C-N-CA	-5.32	114.22	122.09
9	CS	59	GLY	CA-C-N	-5.32	114.22	122.09
9	CS	59	GLY	C-N-CA	-5.32	114.22	122.09
9	Ch	59	GLY	CA-C-N	-5.32	114.22	122.09
9	Ch	59	GLY	C-N-CA	-5.32	114.22	122.09
9	Cw	59	GLY	CA-C-N	-5.32	114.22	122.09
9	Cw	59	GLY	C-N-CA	-5.32	114.22	122.09
9	C6	59	GLY	CA-C-N	-5.32	114.22	122.09
9	C6	59	GLY	C-N-CA	-5.32	114.22	122.09
7	CA	3	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
9	CN	59	GLY	CA-C-N	-5.32	114.22	122.09
9	CN	59	GLY	C-N-CA	-5.32	114.22	122.09
7	CP	3	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
9	Cc	59	GLY	CA-C-N	-5.32	114.22	122.09
9	Cc	59	GLY	C-N-CA	-5.32	114.22	122.09
7	Ce	3	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
9	Cr	59	GLY	CA-C-N	-5.32	114.22	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	Cr	59	GLY	C-N-CA	-5.32	114.22	122.09
7	Ct	3	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
6	B1	150	LEU	N-CA-CB	5.31	118.66	110.43
6	BI	150	LEU	N-CA-CB	5.31	118.66	110.43
6	BX	150	LEU	N-CA-CB	5.31	118.66	110.43
6	Bm	150	LEU	N-CA-CB	5.31	118.66	110.43
7	CF	3	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
7	CU	3	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
7	Cj	3	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
7	Cy	3	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
7	C3	3	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
7	CK	3	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
7	CZ	3	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
7	Co	3	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
7	BG	150	ARG	N-CA-C	-5.31	102.43	110.28
7	BV	150	ARG	N-CA-C	-5.31	102.43	110.28
7	Bk	150	ARG	N-CA-C	-5.31	102.43	110.28
7	Bz	150	ARG	N-CA-C	-5.31	102.43	110.28
9	C1	59	GLY	CA-C-N	-5.30	114.24	122.09
9	C1	59	GLY	C-N-CA	-5.30	114.24	122.09
10	C2	137	PHE	N-CA-CB	-5.30	102.13	110.30
10	C7	137	PHE	N-CA-CB	-5.30	102.13	110.30
5	CG	86	THR	CA-C-N	5.30	124.49	118.97
5	CG	86	THR	C-N-CA	5.30	124.49	118.97
9	CI	59	GLY	CA-C-N	-5.30	114.24	122.09
9	CI	59	GLY	C-N-CA	-5.30	114.24	122.09
10	CJ	137	PHE	N-CA-CB	-5.30	102.13	110.30
10	CO	137	PHE	N-CA-CB	-5.30	102.13	110.30
5	CV	86	THR	CA-C-N	5.30	124.49	118.97
5	CV	86	THR	C-N-CA	5.30	124.49	118.97
9	CX	59	GLY	CA-C-N	-5.30	114.24	122.09
9	CX	59	GLY	C-N-CA	-5.30	114.24	122.09
10	CY	137	PHE	N-CA-CB	-5.30	102.13	110.30
10	Cd	137	PHE	N-CA-CB	-5.30	102.13	110.30
5	Ck	86	THR	CA-C-N	5.30	124.49	118.97
5	Ck	86	THR	C-N-CA	5.30	124.49	118.97
9	Cm	59	GLY	CA-C-N	-5.30	114.24	122.09
9	Cm	59	GLY	C-N-CA	-5.30	114.24	122.09
10	Cn	137	PHE	N-CA-CB	-5.30	102.13	110.30
10	Cs	137	PHE	N-CA-CB	-5.30	102.13	110.30
5	Cz	86	THR	CA-C-N	5.30	124.49	118.97
5	Cz	86	THR	C-N-CA	5.30	124.49	118.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	C1	147	LEU	N-CA-C	5.30	117.12	109.07
8	C5	63	ASP	N-CA-C	-5.30	103.89	110.41
9	CI	147	LEU	N-CA-C	5.30	117.12	109.07
8	CM	63	ASP	N-CA-C	-5.30	103.89	110.41
9	CX	147	LEU	N-CA-C	5.30	117.12	109.07
8	Cb	63	ASP	N-CA-C	-5.30	103.89	110.41
9	Cm	147	LEU	N-CA-C	5.30	117.12	109.07
8	Cq	63	ASP	N-CA-C	-5.30	103.89	110.41
7	B4	150	ARG	N-CA-C	-5.30	102.44	110.28
7	BL	150	ARG	N-CA-C	-5.30	102.44	110.28
7	Ba	150	ARG	N-CA-C	-5.30	102.44	110.28
7	Bp	150	ARG	N-CA-C	-5.30	102.44	110.28
8	C0	82	PHE	CA-CB-CG	-5.29	108.51	113.80
8	C5	82	PHE	CA-CB-CG	-5.29	108.51	113.80
8	CC	82	PHE	CA-CB-CG	-5.29	108.51	113.80
8	CH	82	PHE	CA-CB-CG	-5.29	108.51	113.80
8	CM	82	PHE	CA-CB-CG	-5.29	108.51	113.80
8	CR	82	PHE	CA-CB-CG	-5.29	108.51	113.80
8	CW	82	PHE	CA-CB-CG	-5.29	108.51	113.80
8	Cb	82	PHE	CA-CB-CG	-5.29	108.51	113.80
8	Cg	82	PHE	CA-CB-CG	-5.29	108.51	113.80
8	Cl	82	PHE	CA-CB-CG	-5.29	108.51	113.80
8	Cq	82	PHE	CA-CB-CG	-5.29	108.51	113.80
8	Cv	82	PHE	CA-CB-CG	-5.29	108.51	113.80
8	C0	63	ASP	N-CA-C	-5.29	103.90	110.41
10	CE	137	PHE	N-CA-CB	-5.29	102.15	110.30
8	CH	63	ASP	N-CA-C	-5.29	103.90	110.41
10	CT	137	PHE	N-CA-CB	-5.29	102.15	110.30
8	CW	63	ASP	N-CA-C	-5.29	103.90	110.41
10	Ci	137	PHE	N-CA-CB	-5.29	102.15	110.30
8	Cl	63	ASP	N-CA-C	-5.29	103.90	110.41
10	Cx	137	PHE	N-CA-CB	-5.29	102.15	110.30
6	BD	150	LEU	N-CA-CB	5.29	118.63	110.43
6	BS	150	LEU	N-CA-CB	5.29	118.63	110.43
6	Bh	150	LEU	N-CA-CB	5.29	118.63	110.43
6	Bw	150	LEU	N-CA-CB	5.29	118.63	110.43
3	AE	149	ASP	N-CA-C	-5.28	105.53	111.28
3	AT	149	ASP	N-CA-C	-5.28	105.53	111.28
3	Ai	149	ASP	N-CA-C	-5.28	105.53	111.28
3	Ax	149	ASP	N-CA-C	-5.28	105.53	111.28
3	AF	150	LEU	N-CA-CB	5.28	118.61	110.43
3	AU	150	LEU	N-CA-CB	5.28	118.61	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Aj	150	LEU	N-CA-CB	5.28	118.61	110.43
3	Ay	150	LEU	N-CA-CB	5.28	118.61	110.43
8	CC	63	ASP	N-CA-C	-5.28	103.92	110.41
8	CR	63	ASP	N-CA-C	-5.28	103.92	110.41
8	Cg	63	ASP	N-CA-C	-5.28	103.92	110.41
8	Cv	63	ASP	N-CA-C	-5.28	103.92	110.41
9	C6	147	LEU	N-CA-C	5.28	117.09	109.07
9	CD	147	LEU	N-CA-C	5.28	117.09	109.07
9	CN	147	LEU	N-CA-C	5.28	117.09	109.07
9	CS	147	LEU	N-CA-C	5.28	117.09	109.07
9	Cc	147	LEU	N-CA-C	5.28	117.09	109.07
9	Ch	147	LEU	N-CA-C	5.28	117.09	109.07
9	Cr	147	LEU	N-CA-C	5.28	117.09	109.07
9	Cw	147	LEU	N-CA-C	5.28	117.09	109.07
3	A3	150	LEU	N-CA-CB	5.27	118.60	110.43
3	AK	150	LEU	N-CA-CB	5.27	118.60	110.43
3	AZ	150	LEU	N-CA-CB	5.27	118.60	110.43
3	Ao	150	LEU	N-CA-CB	5.27	118.60	110.43
5	CB	86	THR	CA-C-N	5.27	124.45	118.97
5	CB	86	THR	C-N-CA	5.27	124.45	118.97
5	CQ	86	THR	CA-C-N	5.27	124.45	118.97
5	CQ	86	THR	C-N-CA	5.27	124.45	118.97
5	Cf	86	THR	CA-C-N	5.27	124.45	118.97
5	Cf	86	THR	C-N-CA	5.27	124.45	118.97
5	Cu	86	THR	CA-C-N	5.27	124.45	118.97
5	Cu	86	THR	C-N-CA	5.27	124.45	118.97
3	AA	150	LEU	N-CA-CB	5.27	118.60	110.43
3	AP	150	LEU	N-CA-CB	5.27	118.60	110.43
3	Ae	150	LEU	N-CA-CB	5.27	118.60	110.43
3	At	150	LEU	N-CA-CB	5.27	118.60	110.43
8	C0	200	ASP	CA-C-N	5.27	127.79	120.63
8	C0	200	ASP	C-N-CA	5.27	127.79	120.63
8	CH	200	ASP	CA-C-N	5.27	127.79	120.63
8	CH	200	ASP	C-N-CA	5.27	127.79	120.63
8	CW	200	ASP	CA-C-N	5.27	127.79	120.63
8	CW	200	ASP	C-N-CA	5.27	127.79	120.63
8	Cl	200	ASP	CA-C-N	5.27	127.79	120.63
8	Cl	200	ASP	C-N-CA	5.27	127.79	120.63
2	A1	107	LYS	CB-CA-C	-5.26	102.84	109.31
3	A2	149	ASP	N-CA-C	-5.26	105.54	111.28
2	AI	107	LYS	CB-CA-C	-5.26	102.84	109.31
3	AJ	149	ASP	N-CA-C	-5.26	105.54	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AX	107	LYS	CB-CA-C	-5.26	102.84	109.31
3	AY	149	ASP	N-CA-C	-5.26	105.54	111.28
2	Am	107	LYS	CB-CA-C	-5.26	102.84	109.31
3	An	149	ASP	N-CA-C	-5.26	105.54	111.28
7	B4	88	PRO	N-CA-C	5.26	117.12	110.70
7	BL	88	PRO	N-CA-C	5.26	117.12	110.70
7	Ba	88	PRO	N-CA-C	5.26	117.12	110.70
7	Bp	88	PRO	N-CA-C	5.26	117.12	110.70
5	C4	86	THR	CA-C-N	5.26	124.44	118.97
5	C4	86	THR	C-N-CA	5.26	124.44	118.97
5	CL	86	THR	CA-C-N	5.26	124.44	118.97
5	CL	86	THR	C-N-CA	5.26	124.44	118.97
5	Ca	86	THR	CA-C-N	5.26	124.44	118.97
5	Ca	86	THR	C-N-CA	5.26	124.44	118.97
5	Cp	86	THR	CA-C-N	5.26	124.44	118.97
5	Cp	86	THR	C-N-CA	5.26	124.44	118.97
3	A7	149	ASP	N-CA-C	-5.26	105.55	111.28
3	AO	149	ASP	N-CA-C	-5.26	105.55	111.28
3	Ad	149	ASP	N-CA-C	-5.26	105.55	111.28
3	As	149	ASP	N-CA-C	-5.26	105.55	111.28
7	BB	88	PRO	N-CA-C	5.26	117.11	110.70
7	BQ	88	PRO	N-CA-C	5.26	117.11	110.70
7	Bf	88	PRO	N-CA-C	5.26	117.11	110.70
7	Bu	88	PRO	N-CA-C	5.26	117.11	110.70
4	A4	134	ILE	N-CA-C	-5.25	105.26	110.62
4	AL	134	ILE	N-CA-C	-5.25	105.26	110.62
4	Aa	134	ILE	N-CA-C	-5.25	105.26	110.62
4	Ap	134	ILE	N-CA-C	-5.25	105.26	110.62
2	A6	107	LYS	CB-CA-C	-5.25	102.85	109.31
2	AN	107	LYS	CB-CA-C	-5.25	102.85	109.31
2	Ac	107	LYS	CB-CA-C	-5.25	102.85	109.31
2	Ar	107	LYS	CB-CA-C	-5.25	102.85	109.31
9	C1	142	THR	N-CA-CB	5.25	117.68	110.07
9	CI	142	THR	N-CA-CB	5.25	117.68	110.07
9	CX	142	THR	N-CA-CB	5.25	117.68	110.07
9	Cm	142	THR	N-CA-CB	5.25	117.68	110.07
7	BG	88	PRO	N-CA-C	5.25	117.10	110.70
7	BV	88	PRO	N-CA-C	5.25	117.10	110.70
7	Bk	88	PRO	N-CA-C	5.25	117.10	110.70
7	Bz	88	PRO	N-CA-C	5.25	117.10	110.70
8	C0	38	LEU	CB-CA-C	-5.25	101.20	109.80
8	CC	200	ASP	CA-C-N	5.25	127.76	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	CC	200	ASP	C-N-CA	5.25	127.76	120.63
8	CH	38	LEU	CB-CA-C	-5.25	101.20	109.80
8	CR	200	ASP	CA-C-N	5.25	127.76	120.63
8	CR	200	ASP	C-N-CA	5.25	127.76	120.63
8	CW	38	LEU	CB-CA-C	-5.25	101.20	109.80
8	Cg	200	ASP	CA-C-N	5.25	127.76	120.63
8	Cg	200	ASP	C-N-CA	5.25	127.76	120.63
8	Cl	38	LEU	CB-CA-C	-5.25	101.20	109.80
8	Cv	200	ASP	CA-C-N	5.25	127.76	120.63
8	Cv	200	ASP	C-N-CA	5.25	127.76	120.63
9	C6	125	ASP	N-CA-CB	5.24	117.56	110.38
9	CN	125	ASP	N-CA-CB	5.24	117.56	110.38
9	Cc	125	ASP	N-CA-CB	5.24	117.56	110.38
9	Cr	125	ASP	N-CA-CB	5.24	117.56	110.38
9	C1	123	ARG	CB-CA-C	-5.24	99.81	109.46
9	C1	125	ASP	N-CA-CB	5.24	117.56	110.38
9	CI	123	ARG	CB-CA-C	-5.24	99.81	109.46
9	CI	125	ASP	N-CA-CB	5.24	117.56	110.38
9	CX	123	ARG	CB-CA-C	-5.24	99.81	109.46
9	CX	125	ASP	N-CA-CB	5.24	117.56	110.38
9	Cm	123	ARG	CB-CA-C	-5.24	99.81	109.46
9	Cm	125	ASP	N-CA-CB	5.24	117.56	110.38
2	AD	107	LYS	CB-CA-C	-5.24	102.86	109.31
4	AG	134	ILE	N-CA-C	-5.24	105.28	110.62
2	AS	107	LYS	CB-CA-C	-5.24	102.86	109.31
4	AV	134	ILE	N-CA-C	-5.24	105.28	110.62
2	Ah	107	LYS	CB-CA-C	-5.24	102.86	109.31
4	Ak	134	ILE	N-CA-C	-5.24	105.28	110.62
2	Aw	107	LYS	CB-CA-C	-5.24	102.86	109.31
4	Az	134	ILE	N-CA-C	-5.24	105.28	110.62
8	C0	91	ASP	CA-CB-CG	-5.24	107.36	112.60
8	CH	91	ASP	CA-CB-CG	-5.24	107.36	112.60
8	CW	91	ASP	CA-CB-CG	-5.24	107.36	112.60
8	Cl	91	ASP	CA-CB-CG	-5.24	107.36	112.60
9	C6	228	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
9	CD	123	ARG	CB-CA-C	-5.23	99.83	109.46
9	CN	228	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
9	CS	123	ARG	CB-CA-C	-5.23	99.83	109.46
9	Cc	228	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
9	Ch	123	ARG	CB-CA-C	-5.23	99.83	109.46
9	Cr	228	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
9	Cw	123	ARG	CB-CA-C	-5.23	99.83	109.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	C6	123	ARG	CB-CA-C	-5.23	99.83	109.46
9	CN	123	ARG	CB-CA-C	-5.23	99.83	109.46
9	Cc	123	ARG	CB-CA-C	-5.23	99.83	109.46
9	Cr	123	ARG	CB-CA-C	-5.23	99.83	109.46
8	C5	38	LEU	CB-CA-C	-5.23	101.22	109.80
8	CM	38	LEU	CB-CA-C	-5.23	101.22	109.80
8	Cb	38	LEU	CB-CA-C	-5.23	101.22	109.80
8	Cq	38	LEU	CB-CA-C	-5.23	101.22	109.80
9	C1	187	HIS	CA-CB-CG	5.23	119.03	113.80
9	CD	125	ASP	N-CA-CB	5.23	117.54	110.38
9	CI	187	HIS	CA-CB-CG	5.23	119.03	113.80
9	CS	125	ASP	N-CA-CB	5.23	117.54	110.38
9	CX	187	HIS	CA-CB-CG	5.23	119.03	113.80
9	Ch	125	ASP	N-CA-CB	5.23	117.54	110.38
9	Cm	187	HIS	CA-CB-CG	5.23	119.03	113.80
9	Cw	125	ASP	N-CA-CB	5.23	117.54	110.38
8	CC	38	LEU	CB-CA-C	-5.23	101.23	109.80
8	CR	38	LEU	CB-CA-C	-5.23	101.23	109.80
8	Cg	38	LEU	CB-CA-C	-5.23	101.23	109.80
8	Cv	38	LEU	CB-CA-C	-5.23	101.23	109.80
8	C5	136	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
8	CM	136	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
8	Cb	136	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
8	Cq	136	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
9	C1	61	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
9	CI	61	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
9	CX	61	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
9	Cm	61	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
8	C5	200	ASP	CA-C-N	5.22	127.73	120.63
8	C5	200	ASP	C-N-CA	5.22	127.73	120.63
8	CM	200	ASP	CA-C-N	5.22	127.73	120.63
8	CM	200	ASP	C-N-CA	5.22	127.73	120.63
8	Cb	200	ASP	CA-C-N	5.22	127.73	120.63
8	Cb	200	ASP	C-N-CA	5.22	127.73	120.63
8	Cq	200	ASP	CA-C-N	5.22	127.73	120.63
8	Cq	200	ASP	C-N-CA	5.22	127.73	120.63
4	AB	134	ILE	N-CA-C	-5.21	105.30	110.62
4	AQ	134	ILE	N-CA-C	-5.21	105.30	110.62
4	Af	134	ILE	N-CA-C	-5.21	105.30	110.62
4	Au	134	ILE	N-CA-C	-5.21	105.30	110.62
8	C5	91	ASP	CA-CB-CG	-5.21	107.39	112.60
8	CM	91	ASP	CA-CB-CG	-5.21	107.39	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	Cb	91	ASP	CA-CB-CG	-5.21	107.39	112.60
8	Cq	91	ASP	CA-CB-CG	-5.21	107.39	112.60
6	BD	23	TRP	N-CA-C	-5.21	105.29	110.97
6	BS	23	TRP	N-CA-C	-5.21	105.29	110.97
6	Bh	23	TRP	N-CA-C	-5.21	105.29	110.97
6	Bw	23	TRP	N-CA-C	-5.21	105.29	110.97
8	CC	108	GLY	N-CA-C	-5.21	107.61	115.32
8	CR	108	GLY	N-CA-C	-5.21	107.61	115.32
8	Cg	108	GLY	N-CA-C	-5.21	107.61	115.32
8	Cv	108	GLY	N-CA-C	-5.21	107.61	115.32
8	C0	136	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
8	CH	136	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
8	CW	136	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
8	Cl	136	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
6	B1	23	TRP	N-CA-C	-5.20	105.30	110.97
6	BI	23	TRP	N-CA-C	-5.20	105.30	110.97
6	BX	23	TRP	N-CA-C	-5.20	105.30	110.97
6	Bm	23	TRP	N-CA-C	-5.20	105.30	110.97
8	CC	136	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
8	CR	136	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
8	Cg	136	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
8	Cv	136	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
9	C6	61	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
9	CN	61	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
9	Cc	61	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
9	Cr	61	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
9	CD	187	HIS	CA-CB-CG	5.19	118.99	113.80
9	CS	187	HIS	CA-CB-CG	5.19	118.99	113.80
9	Ch	187	HIS	CA-CB-CG	5.19	118.99	113.80
9	Cw	187	HIS	CA-CB-CG	5.19	118.99	113.80
6	B6	23	TRP	N-CA-C	-5.19	105.32	110.97
6	BN	23	TRP	N-CA-C	-5.19	105.32	110.97
6	Bc	23	TRP	N-CA-C	-5.19	105.32	110.97
6	Br	23	TRP	N-CA-C	-5.19	105.32	110.97
8	C5	187	SER	N-CA-CB	5.19	119.26	110.49
9	C6	187	HIS	CA-CB-CG	5.19	118.99	113.80
9	CD	228	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
8	CM	187	SER	N-CA-CB	5.19	119.26	110.49
9	CN	187	HIS	CA-CB-CG	5.19	118.99	113.80
9	CS	228	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
8	Cb	187	SER	N-CA-CB	5.19	119.26	110.49
9	Cc	187	HIS	CA-CB-CG	5.19	118.99	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	Ch	228	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
8	Cq	187	SER	N-CA-CB	5.19	119.26	110.49
9	Cr	187	HIS	CA-CB-CG	5.19	118.99	113.80
9	Cw	228	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
8	C0	187	SER	N-CA-CB	5.18	119.25	110.49
8	CH	187	SER	N-CA-CB	5.18	119.25	110.49
8	CW	187	SER	N-CA-CB	5.18	119.25	110.49
8	Cl	187	SER	N-CA-CB	5.18	119.25	110.49
8	CC	187	SER	N-CA-CB	5.18	119.25	110.49
8	CR	187	SER	N-CA-CB	5.18	119.25	110.49
8	Cg	187	SER	N-CA-CB	5.18	119.25	110.49
8	Cv	187	SER	N-CA-CB	5.18	119.25	110.49
5	B0	145	GLY	N-CA-C	-5.18	106.14	112.77
5	BH	145	GLY	N-CA-C	-5.18	106.14	112.77
5	BW	145	GLY	N-CA-C	-5.18	106.14	112.77
5	Bl	145	GLY	N-CA-C	-5.18	106.14	112.77
5	BC	145	GLY	N-CA-C	-5.18	106.14	112.77
5	BR	145	GLY	N-CA-C	-5.18	106.14	112.77
5	Bg	145	GLY	N-CA-C	-5.18	106.14	112.77
5	Bv	145	GLY	N-CA-C	-5.18	106.14	112.77
8	C5	108	GLY	N-CA-C	-5.17	107.66	115.32
8	CM	108	GLY	N-CA-C	-5.17	107.66	115.32
8	Cb	108	GLY	N-CA-C	-5.17	107.66	115.32
8	Cq	108	GLY	N-CA-C	-5.17	107.66	115.32
8	C0	108	GLY	N-CA-C	-5.17	107.67	115.32
9	C6	216	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
8	CH	108	GLY	N-CA-C	-5.17	107.67	115.32
9	CN	216	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
8	CW	108	GLY	N-CA-C	-5.17	107.67	115.32
9	Cc	216	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
8	Cl	108	GLY	N-CA-C	-5.17	107.67	115.32
9	Cr	216	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
8	CC	91	ASP	CA-CB-CG	-5.16	107.44	112.60
8	CR	91	ASP	CA-CB-CG	-5.16	107.44	112.60
8	Cg	91	ASP	CA-CB-CG	-5.16	107.44	112.60
8	Cv	91	ASP	CA-CB-CG	-5.16	107.44	112.60
9	C6	190	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
10	CE	179	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
9	CN	190	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
10	CT	179	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
9	Cc	190	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
10	Ci	179	HIS	CE1-NE2-CD2	-5.16	103.84	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	Cr	190	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
10	Cx	179	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
8	C0	69	CYS	CA-C-N	5.15	127.19	120.28
8	C0	69	CYS	C-N-CA	5.15	127.19	120.28
8	C5	69	CYS	CA-C-N	5.15	127.19	120.28
8	C5	69	CYS	C-N-CA	5.15	127.19	120.28
8	CH	69	CYS	CA-C-N	5.15	127.19	120.28
8	CH	69	CYS	C-N-CA	5.15	127.19	120.28
8	CM	69	CYS	CA-C-N	5.15	127.19	120.28
8	CM	69	CYS	C-N-CA	5.15	127.19	120.28
8	CW	69	CYS	CA-C-N	5.15	127.19	120.28
8	CW	69	CYS	C-N-CA	5.15	127.19	120.28
8	Cb	69	CYS	CA-C-N	5.15	127.19	120.28
8	Cb	69	CYS	C-N-CA	5.15	127.19	120.28
8	Cl	69	CYS	CA-C-N	5.15	127.19	120.28
8	Cl	69	CYS	C-N-CA	5.15	127.19	120.28
8	Cq	69	CYS	CA-C-N	5.15	127.19	120.28
8	Cq	69	CYS	C-N-CA	5.15	127.19	120.28
4	B3	53	GLY	N-CA-C	-5.15	108.27	114.66
4	BK	53	GLY	N-CA-C	-5.15	108.27	114.66
4	BZ	53	GLY	N-CA-C	-5.15	108.27	114.66
4	Bo	53	GLY	N-CA-C	-5.15	108.27	114.66
9	CD	61	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
9	CS	61	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
9	Ch	61	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
9	Cw	61	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
9	C1	190	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
9	CI	190	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
9	CX	190	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
9	Cm	190	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
4	BA	53	GLY	N-CA-C	-5.15	108.28	114.66
4	BP	53	GLY	N-CA-C	-5.15	108.28	114.66
4	Be	53	GLY	N-CA-C	-5.15	108.28	114.66
4	Bt	53	GLY	N-CA-C	-5.15	108.28	114.66
7	CF	22	LEU	N-CA-C	5.15	116.70	111.14
7	CU	22	LEU	N-CA-C	5.15	116.70	111.14
7	Cj	22	LEU	N-CA-C	5.15	116.70	111.14
7	Cy	22	LEU	N-CA-C	5.15	116.70	111.14
4	BF	53	GLY	N-CA-C	-5.14	108.28	114.66
4	BU	53	GLY	N-CA-C	-5.14	108.28	114.66
4	Bj	53	GLY	N-CA-C	-5.14	108.28	114.66
4	By	53	GLY	N-CA-C	-5.14	108.28	114.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	C1	228	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
8	CC	22	ASP	N-CA-C	-5.14	105.66	112.34
9	CI	228	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
8	CR	22	ASP	N-CA-C	-5.14	105.66	112.34
9	CX	228	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
8	Cg	22	ASP	N-CA-C	-5.14	105.66	112.34
9	Cm	228	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
8	Cv	22	ASP	N-CA-C	-5.14	105.66	112.34
2	A1	103	GLU	N-CA-C	-5.13	105.38	110.97
2	AI	103	GLU	N-CA-C	-5.13	105.38	110.97
2	AX	103	GLU	N-CA-C	-5.13	105.38	110.97
2	Am	103	GLU	N-CA-C	-5.13	105.38	110.97
9	CD	190	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
9	CS	190	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
9	Ch	190	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
9	Cw	190	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
5	B5	145	GLY	N-CA-C	-5.13	106.20	112.77
5	BM	145	GLY	N-CA-C	-5.13	106.20	112.77
5	Bb	145	GLY	N-CA-C	-5.13	106.20	112.77
5	Bq	145	GLY	N-CA-C	-5.13	106.20	112.77
8	C5	22	ASP	N-CA-C	-5.13	105.67	112.34
8	CM	22	ASP	N-CA-C	-5.13	105.67	112.34
8	Cb	22	ASP	N-CA-C	-5.13	105.67	112.34
8	Cq	22	ASP	N-CA-C	-5.13	105.67	112.34
8	C0	22	ASP	N-CA-C	-5.13	105.68	112.34
10	C7	221	LYS	CA-C-N	-5.13	112.47	121.70
10	C7	221	LYS	C-N-CA	-5.13	112.47	121.70
8	CH	22	ASP	N-CA-C	-5.13	105.68	112.34
10	CO	221	LYS	CA-C-N	-5.13	112.47	121.70
10	CO	221	LYS	C-N-CA	-5.13	112.47	121.70
8	CW	22	ASP	N-CA-C	-5.13	105.68	112.34
10	Cd	221	LYS	CA-C-N	-5.13	112.47	121.70
10	Cd	221	LYS	C-N-CA	-5.13	112.47	121.70
8	Cl	22	ASP	N-CA-C	-5.13	105.68	112.34
10	Cs	221	LYS	CA-C-N	-5.13	112.47	121.70
10	Cs	221	LYS	C-N-CA	-5.13	112.47	121.70
10	C2	179	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
10	CJ	179	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
10	CY	179	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
10	Cn	179	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	A0	5	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	AH	5	HIS	CE1-NE2-CD2	-5.12	103.88	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AW	5	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	Al	5	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
5	B5	107	LYS	CA-C-O	5.12	123.86	119.66
5	BM	107	LYS	CA-C-O	5.12	123.86	119.66
5	Bb	107	LYS	CA-C-O	5.12	123.86	119.66
5	Bq	107	LYS	CA-C-O	5.12	123.86	119.66
7	C3	22	LEU	N-CA-C	5.12	116.67	111.14
7	CA	22	LEU	N-CA-C	5.12	116.67	111.14
10	CE	221	LYS	CA-C-N	-5.12	112.49	121.70
10	CE	221	LYS	C-N-CA	-5.12	112.49	121.70
7	CK	22	LEU	N-CA-C	5.12	116.67	111.14
7	CP	22	LEU	N-CA-C	5.12	116.67	111.14
10	CT	221	LYS	CA-C-N	-5.12	112.49	121.70
10	CT	221	LYS	C-N-CA	-5.12	112.49	121.70
7	CZ	22	LEU	N-CA-C	5.12	116.67	111.14
7	Ce	22	LEU	N-CA-C	5.12	116.67	111.14
10	Ci	221	LYS	CA-C-N	-5.12	112.49	121.70
10	Ci	221	LYS	C-N-CA	-5.12	112.49	121.70
7	Co	22	LEU	N-CA-C	5.12	116.67	111.14
7	Ct	22	LEU	N-CA-C	5.12	116.67	111.14
10	Cx	221	LYS	CA-C-N	-5.12	112.49	121.70
10	Cx	221	LYS	C-N-CA	-5.12	112.49	121.70
10	C7	179	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
10	CO	179	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
10	Cd	179	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
10	Cs	179	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
10	C2	221	LYS	CA-C-N	-5.12	112.49	121.70
10	C2	221	LYS	C-N-CA	-5.12	112.49	121.70
10	CJ	221	LYS	CA-C-N	-5.12	112.49	121.70
10	CJ	221	LYS	C-N-CA	-5.12	112.49	121.70
10	CY	221	LYS	CA-C-N	-5.12	112.49	121.70
10	CY	221	LYS	C-N-CA	-5.12	112.49	121.70
10	Cn	221	LYS	CA-C-N	-5.12	112.49	121.70
10	Cn	221	LYS	C-N-CA	-5.12	112.49	121.70
8	CC	69	CYS	CA-C-N	5.11	127.13	120.28
8	CC	69	CYS	C-N-CA	5.11	127.13	120.28
8	CR	69	CYS	CA-C-N	5.11	127.13	120.28
8	CR	69	CYS	C-N-CA	5.11	127.13	120.28
8	Cg	69	CYS	CA-C-N	5.11	127.13	120.28
8	Cg	69	CYS	C-N-CA	5.11	127.13	120.28
8	Cv	69	CYS	CA-C-N	5.11	127.13	120.28
8	Cv	69	CYS	C-N-CA	5.11	127.13	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AC	5	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	AR	5	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	Ag	5	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	Av	5	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
2	AD	103	GLU	N-CA-C	-5.11	105.40	110.97
2	AS	103	GLU	N-CA-C	-5.11	105.40	110.97
2	Ah	103	GLU	N-CA-C	-5.11	105.40	110.97
2	Aw	103	GLU	N-CA-C	-5.11	105.40	110.97
9	CD	216	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
9	CS	216	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
9	Ch	216	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
9	Cw	216	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
2	A6	103	GLU	N-CA-C	-5.11	105.40	110.97
2	AN	103	GLU	N-CA-C	-5.11	105.40	110.97
2	Ac	103	GLU	N-CA-C	-5.11	105.40	110.97
2	Ar	103	GLU	N-CA-C	-5.11	105.40	110.97
9	CD	158	HIS	CA-CB-CG	-5.11	108.69	113.80
9	CS	158	HIS	CA-CB-CG	-5.11	108.69	113.80
9	Ch	158	HIS	CA-CB-CG	-5.11	108.69	113.80
9	Cw	158	HIS	CA-CB-CG	-5.11	108.69	113.80
9	C1	216	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
9	CI	216	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
9	CX	216	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
9	Cm	216	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
8	CC	65	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
8	CR	65	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
8	Cg	65	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
8	Cv	65	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	A5	5	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	AM	5	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	Ab	5	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	Aq	5	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
8	C0	65	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
9	CD	142	THR	N-CA-CB	5.09	117.66	110.13
8	CH	65	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
9	CS	142	THR	N-CA-CB	5.09	117.66	110.13
8	CW	65	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
9	Ch	142	THR	N-CA-CB	5.09	117.66	110.13
8	Cl	65	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
9	Cw	142	THR	N-CA-CB	5.09	117.66	110.13
9	C6	142	THR	N-CA-CB	5.09	117.66	110.13
9	CN	142	THR	N-CA-CB	5.09	117.66	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	Cc	142	THR	N-CA-CB	5.09	117.66	110.13
9	Cr	142	THR	N-CA-CB	5.09	117.66	110.13
9	C1	158	HIS	CA-CB-CG	-5.08	108.72	113.80
9	CI	158	HIS	CA-CB-CG	-5.08	108.72	113.80
9	CX	158	HIS	CA-CB-CG	-5.08	108.72	113.80
9	Cm	158	HIS	CA-CB-CG	-5.08	108.72	113.80
3	AA	54	GLU	N-CA-C	-5.08	106.34	112.54
3	AP	54	GLU	N-CA-C	-5.08	106.34	112.54
3	Ae	54	GLU	N-CA-C	-5.08	106.34	112.54
3	At	54	GLU	N-CA-C	-5.08	106.34	112.54
10	CE	103	LYS	N-CA-CB	5.08	118.27	109.18
10	CT	103	LYS	N-CA-CB	5.08	118.27	109.18
10	Ci	103	LYS	N-CA-CB	5.08	118.27	109.18
10	Cx	103	LYS	N-CA-CB	5.08	118.27	109.18
5	CB	83	MET	CA-C-N	5.08	127.50	120.29
5	CB	83	MET	C-N-CA	5.08	127.50	120.29
5	CQ	83	MET	CA-C-N	5.08	127.50	120.29
5	CQ	83	MET	C-N-CA	5.08	127.50	120.29
5	Cf	83	MET	CA-C-N	5.08	127.50	120.29
5	Cf	83	MET	C-N-CA	5.08	127.50	120.29
5	Cu	83	MET	CA-C-N	5.08	127.50	120.29
5	Cu	83	MET	C-N-CA	5.08	127.50	120.29
10	C7	103	LYS	N-CA-CB	5.08	118.26	109.18
10	CO	103	LYS	N-CA-CB	5.08	118.26	109.18
10	Cd	103	LYS	N-CA-CB	5.08	118.26	109.18
10	Cs	103	LYS	N-CA-CB	5.08	118.26	109.18
10	C2	103	LYS	N-CA-CB	5.07	118.26	109.18
10	CJ	103	LYS	N-CA-CB	5.07	118.26	109.18
10	CY	103	LYS	N-CA-CB	5.07	118.26	109.18
10	Cn	103	LYS	N-CA-CB	5.07	118.26	109.18
5	C4	83	MET	CA-C-N	5.07	127.49	120.29
5	C4	83	MET	C-N-CA	5.07	127.49	120.29
9	C6	137	ARG	CB-CA-C	-5.07	107.21	114.87
5	CL	83	MET	CA-C-N	5.07	127.49	120.29
5	CL	83	MET	C-N-CA	5.07	127.49	120.29
9	CN	137	ARG	CB-CA-C	-5.07	107.21	114.87
5	Ca	83	MET	CA-C-N	5.07	127.49	120.29
5	Ca	83	MET	C-N-CA	5.07	127.49	120.29
9	Cc	137	ARG	CB-CA-C	-5.07	107.21	114.87
5	Cp	83	MET	CA-C-N	5.07	127.49	120.29
5	Cp	83	MET	C-N-CA	5.07	127.49	120.29
9	Cr	137	ARG	CB-CA-C	-5.07	107.21	114.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	C0	37	LYS	N-CA-C	-5.07	105.76	111.28
8	C0	190	TYR	CB-CG-CD1	5.07	128.40	120.80
9	C6	74	GLN	CB-CA-C	-5.07	105.14	111.43
9	C6	93	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
5	CG	83	MET	CA-C-N	5.07	127.48	120.29
5	CG	83	MET	C-N-CA	5.07	127.48	120.29
8	CH	37	LYS	N-CA-C	-5.07	105.76	111.28
8	CH	190	TYR	CB-CG-CD1	5.07	128.40	120.80
9	CN	74	GLN	CB-CA-C	-5.07	105.14	111.43
9	CN	93	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
5	CV	83	MET	CA-C-N	5.07	127.48	120.29
5	CV	83	MET	C-N-CA	5.07	127.48	120.29
8	CW	37	LYS	N-CA-C	-5.07	105.76	111.28
8	CW	190	TYR	CB-CG-CD1	5.07	128.40	120.80
9	Cc	74	GLN	CB-CA-C	-5.07	105.14	111.43
9	Cc	93	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
5	Ck	83	MET	CA-C-N	5.07	127.48	120.29
5	Ck	83	MET	C-N-CA	5.07	127.48	120.29
8	Cl	37	LYS	N-CA-C	-5.07	105.76	111.28
8	Cl	190	TYR	CB-CG-CD1	5.07	128.40	120.80
9	Cr	74	GLN	CB-CA-C	-5.07	105.14	111.43
9	Cr	93	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
5	Cz	83	MET	CA-C-N	5.07	127.48	120.29
5	Cz	83	MET	C-N-CA	5.07	127.48	120.29
9	C1	74	GLN	CB-CA-C	-5.07	105.15	111.43
9	CI	74	GLN	CB-CA-C	-5.07	105.15	111.43
9	CX	74	GLN	CB-CA-C	-5.07	105.15	111.43
9	Cm	74	GLN	CB-CA-C	-5.07	105.15	111.43
9	CD	137	ARG	CB-CA-C	-5.06	107.22	114.87
9	CS	137	ARG	CB-CA-C	-5.06	107.22	114.87
9	Ch	137	ARG	CB-CA-C	-5.06	107.22	114.87
9	Cw	137	ARG	CB-CA-C	-5.06	107.22	114.87
8	CC	37	LYS	N-CA-C	-5.06	105.76	111.28
8	CC	190	TYR	CB-CG-CD1	5.06	128.39	120.80
8	CR	37	LYS	N-CA-C	-5.06	105.76	111.28
8	CR	190	TYR	CB-CG-CD1	5.06	128.39	120.80
8	Cg	37	LYS	N-CA-C	-5.06	105.76	111.28
8	Cg	190	TYR	CB-CG-CD1	5.06	128.39	120.80
8	Cv	37	LYS	N-CA-C	-5.06	105.76	111.28
8	Cv	190	TYR	CB-CG-CD1	5.06	128.39	120.80
10	CE	179	HIS	O-C-N	5.06	127.09	121.43
10	CT	179	HIS	O-C-N	5.06	127.09	121.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	Ci	179	HIS	O-C-N	5.06	127.09	121.43
10	Cx	179	HIS	O-C-N	5.06	127.09	121.43
8	C0	61	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
9	C1	137	ARG	CB-CA-C	-5.05	107.24	114.87
8	CH	61	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
9	CI	137	ARG	CB-CA-C	-5.05	107.24	114.87
8	CW	61	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
9	CX	137	ARG	CB-CA-C	-5.05	107.24	114.87
8	Cl	61	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
9	Cm	137	ARG	CB-CA-C	-5.05	107.24	114.87
3	AA	26	SER	CB-CA-C	-5.05	101.45	110.70
3	AP	26	SER	CB-CA-C	-5.05	101.45	110.70
3	Ae	26	SER	CB-CA-C	-5.05	101.45	110.70
3	At	26	SER	CB-CA-C	-5.05	101.45	110.70
9	C6	158	HIS	CA-CB-CG	-5.05	108.75	113.80
9	CN	158	HIS	CA-CB-CG	-5.05	108.75	113.80
9	Cc	158	HIS	CA-CB-CG	-5.05	108.75	113.80
9	Cr	158	HIS	CA-CB-CG	-5.05	108.75	113.80
3	A3	54	GLU	N-CA-C	-5.05	106.38	112.54
3	AK	54	GLU	N-CA-C	-5.05	106.38	112.54
3	AZ	54	GLU	N-CA-C	-5.05	106.38	112.54
3	Ao	54	GLU	N-CA-C	-5.05	106.38	112.54
5	B0	107	LYS	CA-C-O	5.05	123.80	119.66
5	BH	107	LYS	CA-C-O	5.05	123.80	119.66
5	BW	107	LYS	CA-C-O	5.05	123.80	119.66
5	Bl	107	LYS	CA-C-O	5.05	123.80	119.66
10	C2	179	HIS	O-C-N	5.05	127.08	121.43
8	C5	65	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
10	CJ	179	HIS	O-C-N	5.05	127.08	121.43
8	CM	65	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
10	CY	179	HIS	O-C-N	5.05	127.08	121.43
8	Cb	65	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
10	Cn	179	HIS	O-C-N	5.05	127.08	121.43
8	Cq	65	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
3	AF	54	GLU	N-CA-C	-5.05	106.38	112.54
3	AU	54	GLU	N-CA-C	-5.05	106.38	112.54
3	Aj	54	GLU	N-CA-C	-5.05	106.38	112.54
3	Ay	54	GLU	N-CA-C	-5.05	106.38	112.54
10	C7	179	HIS	O-C-N	5.04	127.08	121.43
10	CO	179	HIS	O-C-N	5.04	127.08	121.43
10	Cd	179	HIS	O-C-N	5.04	127.08	121.43
10	Cs	179	HIS	O-C-N	5.04	127.08	121.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	C5	190	TYR	CB-CG-CD1	5.04	128.36	120.80
9	CD	93	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
8	CM	190	TYR	CB-CG-CD1	5.04	128.36	120.80
9	CS	93	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
8	Cb	190	TYR	CB-CG-CD1	5.04	128.36	120.80
9	Ch	93	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
8	Cq	190	TYR	CB-CG-CD1	5.04	128.36	120.80
9	Cw	93	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
9	CD	74	GLN	CB-CA-C	-5.04	105.18	111.43
9	CS	74	GLN	CB-CA-C	-5.04	105.18	111.43
9	Ch	74	GLN	CB-CA-C	-5.04	105.18	111.43
9	Cw	74	GLN	CB-CA-C	-5.04	105.18	111.43
9	C1	93	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
9	CI	93	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
9	CX	93	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
9	Cm	93	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
5	BC	107	LYS	CA-C-O	5.04	123.79	119.66
5	BR	107	LYS	CA-C-O	5.04	123.79	119.66
5	Bg	107	LYS	CA-C-O	5.04	123.79	119.66
5	Bv	107	LYS	CA-C-O	5.04	123.79	119.66
8	CC	61	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
8	CR	61	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
8	Cg	61	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
8	Cv	61	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
10	CE	171	PHE	CA-C-N	5.03	127.43	120.29
10	CE	171	PHE	C-N-CA	5.03	127.43	120.29
10	CT	171	PHE	CA-C-N	5.03	127.43	120.29
10	CT	171	PHE	C-N-CA	5.03	127.43	120.29
10	Ci	171	PHE	CA-C-N	5.03	127.43	120.29
10	Ci	171	PHE	C-N-CA	5.03	127.43	120.29
10	Cx	171	PHE	CA-C-N	5.03	127.43	120.29
10	Cx	171	PHE	C-N-CA	5.03	127.43	120.29
8	C5	61	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
8	CM	61	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
8	Cb	61	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
8	Cq	61	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
10	C7	171	PHE	CA-C-N	5.02	127.42	120.29
10	C7	171	PHE	C-N-CA	5.02	127.42	120.29
10	CO	171	PHE	CA-C-N	5.02	127.42	120.29
10	CO	171	PHE	C-N-CA	5.02	127.42	120.29
10	Cd	171	PHE	CA-C-N	5.02	127.42	120.29
10	Cd	171	PHE	C-N-CA	5.02	127.42	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	Cs	171	PHE	CA-C-N	5.02	127.42	120.29
10	Cs	171	PHE	C-N-CA	5.02	127.42	120.29
8	C0	147	LEU	N-CA-C	5.02	115.67	108.74
9	C1	174	PHE	CB-CA-C	-5.02	103.23	110.96
8	C5	37	LYS	N-CA-C	-5.02	105.81	111.28
9	C6	174	PHE	CB-CA-C	-5.02	103.23	110.96
8	CH	147	LEU	N-CA-C	5.02	115.67	108.74
9	CI	174	PHE	CB-CA-C	-5.02	103.23	110.96
8	CM	37	LYS	N-CA-C	-5.02	105.81	111.28
9	CN	174	PHE	CB-CA-C	-5.02	103.23	110.96
8	CW	147	LEU	N-CA-C	5.02	115.67	108.74
9	CX	174	PHE	CB-CA-C	-5.02	103.23	110.96
8	Cb	37	LYS	N-CA-C	-5.02	105.81	111.28
9	Cc	174	PHE	CB-CA-C	-5.02	103.23	110.96
8	Cl	147	LEU	N-CA-C	5.02	115.67	108.74
9	Cm	174	PHE	CB-CA-C	-5.02	103.23	110.96
8	Cq	37	LYS	N-CA-C	-5.02	105.81	111.28
9	Cr	174	PHE	CB-CA-C	-5.02	103.23	110.96
8	C0	40	HIS	CA-CB-CG	5.02	118.82	113.80
10	C2	171	PHE	CA-C-N	5.02	127.42	120.29
10	C2	171	PHE	C-N-CA	5.02	127.42	120.29
10	C7	10	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
10	CE	10	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
8	CH	40	HIS	CA-CB-CG	5.02	118.82	113.80
10	CJ	171	PHE	CA-C-N	5.02	127.42	120.29
10	CJ	171	PHE	C-N-CA	5.02	127.42	120.29
10	CO	10	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
10	CT	10	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
8	CW	40	HIS	CA-CB-CG	5.02	118.82	113.80
10	CY	171	PHE	CA-C-N	5.02	127.42	120.29
10	CY	171	PHE	C-N-CA	5.02	127.42	120.29
10	Cd	10	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
10	Ci	10	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
8	Cl	40	HIS	CA-CB-CG	5.02	118.82	113.80
10	Cn	171	PHE	CA-C-N	5.02	127.42	120.29
10	Cn	171	PHE	C-N-CA	5.02	127.42	120.29
10	Cs	10	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
10	Cx	10	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
8	C5	147	LEU	N-CA-C	5.02	115.66	108.74
8	CM	147	LEU	N-CA-C	5.02	115.66	108.74
8	Cb	147	LEU	N-CA-C	5.02	115.66	108.74
8	Cq	147	LEU	N-CA-C	5.02	115.66	108.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	C4	146	ILE	CB-CA-C	-5.01	105.30	112.22
5	CL	146	ILE	CB-CA-C	-5.01	105.30	112.22
5	Ca	146	ILE	CB-CA-C	-5.01	105.30	112.22
5	Cp	146	ILE	CB-CA-C	-5.01	105.30	112.22
9	C1	187	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
9	CI	187	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
9	CX	187	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
9	Cm	187	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
8	CC	147	LEU	N-CA-C	5.01	115.65	108.74
9	CD	174	PHE	CB-CA-C	-5.01	103.25	110.96
8	CR	147	LEU	N-CA-C	5.01	115.65	108.74
9	CS	174	PHE	CB-CA-C	-5.01	103.25	110.96
8	Cg	147	LEU	N-CA-C	5.01	115.65	108.74
9	Ch	174	PHE	CB-CA-C	-5.01	103.25	110.96
8	Cv	147	LEU	N-CA-C	5.01	115.65	108.74
9	Cw	174	PHE	CB-CA-C	-5.01	103.25	110.96
5	CG	146	ILE	CB-CA-C	-5.00	105.31	112.22
5	CV	146	ILE	CB-CA-C	-5.00	105.31	112.22
5	Ck	146	ILE	CB-CA-C	-5.00	105.31	112.22
5	Cz	146	ILE	CB-CA-C	-5.00	105.31	112.22

There are no chirality outliers.

All (576) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A0	150	ARG	Sidechain
3	A2	23	TRP	Peptide
3	A3	23	TRP	Peptide
3	A3	27	PHE	Peptide
4	A4	142	LYS	Peptide
1	A5	150	ARG	Sidechain
3	A7	23	TRP	Peptide
3	AA	23	TRP	Peptide
3	AA	27	PHE	Peptide
4	AB	142	LYS	Peptide
1	AC	150	ARG	Sidechain
3	AE	23	TRP	Peptide
3	AF	23	TRP	Peptide
3	AF	27	PHE	Peptide
4	AG	142	LYS	Peptide
1	AH	150	ARG	Sidechain
3	AJ	23	TRP	Peptide

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Mol	Chain	Res	Type	Group
3	AK	23	TRP	Peptide
3	AK	27	PHE	Peptide
4	AL	142	LYS	Peptide
1	AM	150	ARG	Sidechain
3	AO	23	TRP	Peptide
3	AP	23	TRP	Peptide
3	AP	27	PHE	Peptide
4	AQ	142	LYS	Peptide
1	AR	150	ARG	Sidechain
3	AT	23	TRP	Peptide
3	AU	23	TRP	Peptide
3	AU	27	PHE	Peptide
4	AV	142	LYS	Peptide
1	AW	150	ARG	Sidechain
3	AY	23	TRP	Peptide
3	AZ	23	TRP	Peptide
3	AZ	27	PHE	Peptide
4	Aa	142	LYS	Peptide
1	Ab	150	ARG	Sidechain
3	Ad	23	TRP	Peptide
3	Ae	23	TRP	Peptide
3	Ae	27	PHE	Peptide
4	Af	142	LYS	Peptide
1	Ag	150	ARG	Sidechain
3	Ai	23	TRP	Peptide
3	Aj	23	TRP	Peptide
3	Aj	27	PHE	Peptide
4	Ak	142	LYS	Peptide
1	Al	150	ARG	Sidechain
3	An	23	TRP	Peptide
3	Ao	23	TRP	Peptide
3	Ao	27	PHE	Peptide
4	Ap	142	LYS	Peptide
1	Aq	150	ARG	Sidechain
3	As	23	TRP	Peptide
3	At	23	TRP	Peptide
3	At	27	PHE	Peptide
4	Au	142	LYS	Peptide
1	Av	150	ARG	Sidechain
3	Ax	23	TRP	Peptide
3	Ay	23	TRP	Peptide
3	Ay	27	PHE	Peptide

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Mol	Chain	Res	Type	Group
4	Az	142	LYS	Peptide
5	B0	83	MET	Peptide
5	B0	9	CYS	Peptide
6	B1	147	ALA	Peptide
4	B2	143	GLY	Peptide
4	B2	144	HIS	Peptide
4	B3	78	THR	Peptide
4	B3	99	ARG	Sidechain
7	B4	150	ARG	Peptide
7	B4	6	CYS	Peptide
7	B4	7	CYS	Peptide
5	B5	83	MET	Peptide
5	B5	9	CYS	Peptide
6	B6	147	ALA	Peptide
4	B7	143	GLY	Peptide
4	B7	144	HIS	Peptide
4	BA	78	THR	Peptide
4	BA	99	ARG	Sidechain
7	BB	150	ARG	Peptide
7	BB	6	CYS	Peptide
7	BB	7	CYS	Peptide
5	BC	83	MET	Peptide
5	BC	9	CYS	Peptide
6	BD	147	ALA	Peptide
4	BE	143	GLY	Peptide
4	BE	144	HIS	Peptide
4	BF	78	THR	Peptide
4	BF	99	ARG	Sidechain
7	BG	150	ARG	Peptide
7	BG	6	CYS	Peptide
7	BG	7	CYS	Peptide
5	BH	83	MET	Peptide
5	BH	9	CYS	Peptide
6	BI	147	ALA	Peptide
4	BJ	143	GLY	Peptide
4	BJ	144	HIS	Peptide
4	BK	78	THR	Peptide
4	BK	99	ARG	Sidechain
7	BL	150	ARG	Peptide
7	BL	6	CYS	Peptide
7	BL	7	CYS	Peptide
5	BM	83	MET	Peptide

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Mol	Chain	Res	Type	Group
5	BM	9	CYS	Peptide
6	BN	147	ALA	Peptide
4	BO	143	GLY	Peptide
4	BO	144	HIS	Peptide
4	BP	78	THR	Peptide
4	BP	99	ARG	Sidechain
7	BQ	150	ARG	Peptide
7	BQ	6	CYS	Peptide
7	BQ	7	CYS	Peptide
5	BR	83	MET	Peptide
5	BR	9	CYS	Peptide
6	BS	147	ALA	Peptide
4	BT	143	GLY	Peptide
4	BT	144	HIS	Peptide
4	BU	78	THR	Peptide
4	BU	99	ARG	Sidechain
7	BV	150	ARG	Peptide
7	BV	6	CYS	Peptide
7	BV	7	CYS	Peptide
5	BW	83	MET	Peptide
5	BW	9	CYS	Peptide
6	BX	147	ALA	Peptide
4	BY	143	GLY	Peptide
4	BY	144	HIS	Peptide
4	BZ	78	THR	Peptide
4	BZ	99	ARG	Sidechain
7	Ba	150	ARG	Peptide
7	Ba	6	CYS	Peptide
7	Ba	7	CYS	Peptide
5	Bb	83	MET	Peptide
5	Bb	9	CYS	Peptide
6	Bc	147	ALA	Peptide
4	Bd	143	GLY	Peptide
4	Bd	144	HIS	Peptide
4	Be	78	THR	Peptide
4	Be	99	ARG	Sidechain
7	Bf	150	ARG	Peptide
7	Bf	6	CYS	Peptide
7	Bf	7	CYS	Peptide
5	Bg	83	MET	Peptide
5	Bg	9	CYS	Peptide
6	Bh	147	ALA	Peptide

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Mol	Chain	Res	Type	Group
4	Bi	143	GLY	Peptide
4	Bi	144	HIS	Peptide
4	Bj	78	THR	Peptide
4	Bj	99	ARG	Sidechain
7	Bk	150	ARG	Peptide
7	Bk	6	CYS	Peptide
7	Bk	7	CYS	Peptide
5	Bl	83	MET	Peptide
5	Bl	9	CYS	Peptide
6	Bm	147	ALA	Peptide
4	Bn	143	GLY	Peptide
4	Bn	144	HIS	Peptide
4	Bo	78	THR	Peptide
4	Bo	99	ARG	Sidechain
7	Bp	150	ARG	Peptide
7	Bp	6	CYS	Peptide
7	Bp	7	CYS	Peptide
5	Bq	83	MET	Peptide
5	Bq	9	CYS	Peptide
6	Br	147	ALA	Peptide
4	Bs	143	GLY	Peptide
4	Bs	144	HIS	Peptide
4	Bt	78	THR	Peptide
4	Bt	99	ARG	Sidechain
7	Bu	150	ARG	Peptide
7	Bu	6	CYS	Peptide
7	Bu	7	CYS	Peptide
5	Bv	83	MET	Peptide
5	Bv	9	CYS	Peptide
6	Bw	147	ALA	Peptide
4	Bx	143	GLY	Peptide
4	Bx	144	HIS	Peptide
4	By	78	THR	Peptide
4	By	99	ARG	Sidechain
7	Bz	150	ARG	Peptide
7	Bz	6	CYS	Peptide
7	Bz	7	CYS	Peptide
8	C0	120	CYS	Peptide
8	C0	137	ARG	Peptide
8	C0	139	SER	Peptide
8	C0	140	PHE	Peptide
8	C0	142	PRO	Peptide

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Mol	Chain	Res	Type	Group
8	C0	146	TRP	Peptide
8	C0	184	LYS	Peptide
8	C0	196	PHE	Peptide
8	C0	197	ASN	Peptide
8	C0	212	SER	Peptide
8	C0	224	ARG	Peptide
8	C0	74	PRO	Peptide
9	C1	122	ALA	Peptide
9	C1	123	ARG	Sidechain
9	C1	138	ARG	Sidechain
9	C1	140	PHE	Peptide
9	C1	142	THR	Peptide
9	C1	177	ARG	Sidechain
9	C1	190	HIS	Peptide
9	C1	198	ASN	Peptide
9	C1	199	ARG	Sidechain
9	C1	200	GLY	Peptide
10	C2	103	LYS	Peptide
10	C2	116	HIS	Peptide
10	C2	139	THR	Peptide
10	C2	170	SER	Mainchain
10	C2	185	GLY	Peptide
10	C2	192	PHE	Peptide
10	C2	57	LEU	Mainchain
10	C2	71	GLY	Peptide
7	C3	150	ARG	Sidechain
7	C3	6	CYS	Peptide
5	C4	83	MET	Peptide
8	C5	120	CYS	Peptide
8	C5	137	ARG	Peptide
8	C5	139	SER	Peptide
8	C5	140	PHE	Peptide
8	C5	142	PRO	Peptide
8	C5	146	TRP	Peptide
8	C5	184	LYS	Peptide
8	C5	196	PHE	Peptide
8	C5	197	ASN	Peptide
8	C5	212	SER	Peptide
8	C5	224	ARG	Peptide
8	C5	74	PRO	Peptide
9	C6	122	ALA	Peptide
9	C6	123	ARG	Sidechain

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Mol	Chain	Res	Type	Group
9	C6	138	ARG	Sidechain
9	C6	140	PHE	Peptide
9	C6	142	THR	Peptide
9	C6	177	ARG	Sidechain
9	C6	190	HIS	Peptide
9	C6	198	ASN	Peptide
9	C6	199	ARG	Sidechain
9	C6	200	GLY	Peptide
10	C7	103	LYS	Peptide
10	C7	116	HIS	Peptide
10	C7	139	THR	Peptide
10	C7	170	SER	Mainchain
10	C7	185	GLY	Peptide
10	C7	192	PHE	Peptide
10	C7	57	LEU	Mainchain
10	C7	71	GLY	Peptide
7	CA	150	ARG	Sidechain
7	CA	6	CYS	Peptide
5	CB	83	MET	Peptide
8	CC	120	CYS	Peptide
8	CC	137	ARG	Peptide
8	CC	139	SER	Peptide
8	CC	140	PHE	Peptide
8	CC	142	PRO	Peptide
8	CC	146	TRP	Peptide
8	CC	184	LYS	Peptide
8	CC	196	PHE	Peptide
8	CC	197	ASN	Peptide
8	CC	212	SER	Peptide
8	CC	224	ARG	Peptide
8	CC	74	PRO	Peptide
9	CD	122	ALA	Peptide
9	CD	123	ARG	Sidechain
9	CD	138	ARG	Sidechain
9	CD	140	PHE	Peptide
9	CD	142	THR	Peptide
9	CD	177	ARG	Sidechain
9	CD	190	HIS	Peptide
9	CD	198	ASN	Peptide
9	CD	199	ARG	Sidechain
9	CD	200	GLY	Peptide
10	CE	103	LYS	Peptide

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Mol	Chain	Res	Type	Group
10	CE	116	HIS	Peptide
10	CE	139	THR	Peptide
10	CE	170	SER	Mainchain
10	CE	185	GLY	Peptide
10	CE	192	PHE	Peptide
10	CE	57	LEU	Mainchain
10	CE	71	GLY	Peptide
7	CF	150	ARG	Sidechain
7	CF	6	CYS	Peptide
5	CG	83	MET	Peptide
8	CH	120	CYS	Peptide
8	CH	137	ARG	Peptide
8	CH	139	SER	Peptide
8	CH	140	PHE	Peptide
8	CH	142	PRO	Peptide
8	CH	146	TRP	Peptide
8	CH	184	LYS	Peptide
8	CH	196	PHE	Peptide
8	CH	197	ASN	Peptide
8	CH	212	SER	Peptide
8	CH	224	ARG	Peptide
8	CH	74	PRO	Peptide
9	CI	122	ALA	Peptide
9	CI	123	ARG	Sidechain
9	CI	138	ARG	Sidechain
9	CI	140	PHE	Peptide
9	CI	142	THR	Peptide
9	CI	177	ARG	Sidechain
9	CI	190	HIS	Peptide
9	CI	198	ASN	Peptide
9	CI	199	ARG	Sidechain
9	CI	200	GLY	Peptide
10	CJ	103	LYS	Peptide
10	CJ	116	HIS	Peptide
10	CJ	139	THR	Peptide
10	CJ	170	SER	Mainchain
10	CJ	185	GLY	Peptide
10	CJ	192	PHE	Peptide
10	CJ	57	LEU	Mainchain
10	CJ	71	GLY	Peptide
7	CK	150	ARG	Sidechain
7	CK	6	CYS	Peptide

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Mol	Chain	Res	Type	Group
5	CL	83	MET	Peptide
8	CM	120	CYS	Peptide
8	CM	137	ARG	Peptide
8	CM	139	SER	Peptide
8	CM	140	PHE	Peptide
8	CM	142	PRO	Peptide
8	CM	146	TRP	Peptide
8	CM	184	LYS	Peptide
8	CM	196	PHE	Peptide
8	CM	197	ASN	Peptide
8	CM	212	SER	Peptide
8	CM	224	ARG	Peptide
8	CM	74	PRO	Peptide
9	CN	122	ALA	Peptide
9	CN	123	ARG	Sidechain
9	CN	138	ARG	Sidechain
9	CN	140	PHE	Peptide
9	CN	142	THR	Peptide
9	CN	177	ARG	Sidechain
9	CN	190	HIS	Peptide
9	CN	198	ASN	Peptide
9	CN	199	ARG	Sidechain
9	CN	200	GLY	Peptide
10	CO	103	LYS	Peptide
10	CO	116	HIS	Peptide
10	CO	139	THR	Peptide
10	CO	170	SER	Mainchain
10	CO	185	GLY	Peptide
10	CO	192	PHE	Peptide
10	CO	57	LEU	Mainchain
10	CO	71	GLY	Peptide
7	CP	150	ARG	Sidechain
7	CP	6	CYS	Peptide
5	CQ	83	MET	Peptide
8	CR	120	CYS	Peptide
8	CR	137	ARG	Peptide
8	CR	139	SER	Peptide
8	CR	140	PHE	Peptide
8	CR	142	PRO	Peptide
8	CR	146	TRP	Peptide
8	CR	184	LYS	Peptide
8	CR	196	PHE	Peptide

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Mol	Chain	Res	Type	Group
8	CR	197	ASN	Peptide
8	CR	212	SER	Peptide
8	CR	224	ARG	Peptide
8	CR	74	PRO	Peptide
9	CS	122	ALA	Peptide
9	CS	123	ARG	Sidechain
9	CS	138	ARG	Sidechain
9	CS	140	PHE	Peptide
9	CS	142	THR	Peptide
9	CS	177	ARG	Sidechain
9	CS	190	HIS	Peptide
9	CS	198	ASN	Peptide
9	CS	199	ARG	Sidechain
9	CS	200	GLY	Peptide
10	CT	103	LYS	Peptide
10	CT	116	HIS	Peptide
10	CT	139	THR	Peptide
10	CT	170	SER	Mainchain
10	CT	185	GLY	Peptide
10	CT	192	PHE	Peptide
10	CT	57	LEU	Mainchain
10	CT	71	GLY	Peptide
7	CU	150	ARG	Sidechain
7	CU	6	CYS	Peptide
5	CV	83	MET	Peptide
8	CW	120	CYS	Peptide
8	CW	137	ARG	Peptide
8	CW	139	SER	Peptide
8	CW	140	PHE	Peptide
8	CW	142	PRO	Peptide
8	CW	146	TRP	Peptide
8	CW	184	LYS	Peptide
8	CW	196	PHE	Peptide
8	CW	197	ASN	Peptide
8	CW	212	SER	Peptide
8	CW	224	ARG	Peptide
8	CW	74	PRO	Peptide
9	CX	122	ALA	Peptide
9	CX	123	ARG	Sidechain
9	CX	138	ARG	Sidechain
9	CX	140	PHE	Peptide
9	CX	142	THR	Peptide

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Mol	Chain	Res	Type	Group
9	CX	177	ARG	Sidechain
9	CX	190	HIS	Peptide
9	CX	198	ASN	Peptide
9	CX	199	ARG	Sidechain
9	CX	200	GLY	Peptide
10	CY	103	LYS	Peptide
10	CY	116	HIS	Peptide
10	CY	139	THR	Peptide
10	CY	170	SER	Mainchain
10	CY	185	GLY	Peptide
10	CY	192	PHE	Peptide
10	CY	57	LEU	Mainchain
10	CY	71	GLY	Peptide
7	CZ	150	ARG	Sidechain
7	CZ	6	CYS	Peptide
5	Ca	83	MET	Peptide
8	Cb	120	CYS	Peptide
8	Cb	137	ARG	Peptide
8	Cb	139	SER	Peptide
8	Cb	140	PHE	Peptide
8	Cb	142	PRO	Peptide
8	Cb	146	TRP	Peptide
8	Cb	184	LYS	Peptide
8	Cb	196	PHE	Peptide
8	Cb	197	ASN	Peptide
8	Cb	212	SER	Peptide
8	Cb	224	ARG	Peptide
8	Cb	74	PRO	Peptide
9	Cc	122	ALA	Peptide
9	Cc	123	ARG	Sidechain
9	Cc	138	ARG	Sidechain
9	Cc	140	PHE	Peptide
9	Cc	142	THR	Peptide
9	Cc	177	ARG	Sidechain
9	Cc	190	HIS	Peptide
9	Cc	198	ASN	Peptide
9	Cc	199	ARG	Sidechain
9	Cc	200	GLY	Peptide
10	Cd	103	LYS	Peptide
10	Cd	116	HIS	Peptide
10	Cd	139	THR	Peptide
10	Cd	170	SER	Mainchain

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Mol	Chain	Res	Type	Group
10	Cd	185	GLY	Peptide
10	Cd	192	PHE	Peptide
10	Cd	57	LEU	Mainchain
10	Cd	71	GLY	Peptide
7	Ce	150	ARG	Sidechain
7	Ce	6	CYS	Peptide
5	Cf	83	MET	Peptide
8	Cg	120	CYS	Peptide
8	Cg	137	ARG	Peptide
8	Cg	139	SER	Peptide
8	Cg	140	PHE	Peptide
8	Cg	142	PRO	Peptide
8	Cg	146	TRP	Peptide
8	Cg	184	LYS	Peptide
8	Cg	196	PHE	Peptide
8	Cg	197	ASN	Peptide
8	Cg	212	SER	Peptide
8	Cg	224	ARG	Peptide
8	Cg	74	PRO	Peptide
9	Ch	122	ALA	Peptide
9	Ch	123	ARG	Sidechain
9	Ch	138	ARG	Sidechain
9	Ch	140	PHE	Peptide
9	Ch	142	THR	Peptide
9	Ch	177	ARG	Sidechain
9	Ch	190	HIS	Peptide
9	Ch	198	ASN	Peptide
9	Ch	199	ARG	Sidechain
9	Ch	200	GLY	Peptide
10	Ci	103	LYS	Peptide
10	Ci	116	HIS	Peptide
10	Ci	139	THR	Peptide
10	Ci	170	SER	Mainchain
10	Ci	185	GLY	Peptide
10	Ci	192	PHE	Peptide
10	Ci	57	LEU	Mainchain
10	Ci	71	GLY	Peptide
7	Cj	150	ARG	Sidechain
7	Cj	6	CYS	Peptide
5	Ck	83	MET	Peptide
8	Cl	120	CYS	Peptide
8	Cl	137	ARG	Peptide

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Mol	Chain	Res	Type	Group
8	Cl	139	SER	Peptide
8	Cl	140	PHE	Peptide
8	Cl	142	PRO	Peptide
8	Cl	146	TRP	Peptide
8	Cl	184	LYS	Peptide
8	Cl	196	PHE	Peptide
8	Cl	197	ASN	Peptide
8	Cl	212	SER	Peptide
8	Cl	224	ARG	Peptide
8	Cl	74	PRO	Peptide
9	Cm	122	ALA	Peptide
9	Cm	123	ARG	Sidechain
9	Cm	138	ARG	Sidechain
9	Cm	140	PHE	Peptide
9	Cm	142	THR	Peptide
9	Cm	177	ARG	Sidechain
9	Cm	190	HIS	Peptide
9	Cm	198	ASN	Peptide
9	Cm	199	ARG	Sidechain
9	Cm	200	GLY	Peptide
10	Cn	103	LYS	Peptide
10	Cn	116	HIS	Peptide
10	Cn	139	THR	Peptide
10	Cn	170	SER	Mainchain
10	Cn	185	GLY	Peptide
10	Cn	192	PHE	Peptide
10	Cn	57	LEU	Mainchain
10	Cn	71	GLY	Peptide
7	Co	150	ARG	Sidechain
7	Co	6	CYS	Peptide
5	Cp	83	MET	Peptide
8	Cq	120	CYS	Peptide
8	Cq	137	ARG	Peptide
8	Cq	139	SER	Peptide
8	Cq	140	PHE	Peptide
8	Cq	142	PRO	Peptide
8	Cq	146	TRP	Peptide
8	Cq	184	LYS	Peptide
8	Cq	196	PHE	Peptide
8	Cq	197	ASN	Peptide
8	Cq	212	SER	Peptide
8	Cq	224	ARG	Peptide

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Mol	Chain	Res	Type	Group
8	Cq	74	PRO	Peptide
9	Cr	122	ALA	Peptide
9	Cr	123	ARG	Sidechain
9	Cr	138	ARG	Sidechain
9	Cr	140	PHE	Peptide
9	Cr	142	THR	Peptide
9	Cr	177	ARG	Sidechain
9	Cr	190	HIS	Peptide
9	Cr	198	ASN	Peptide
9	Cr	199	ARG	Sidechain
9	Cr	200	GLY	Peptide
10	Cs	103	LYS	Peptide
10	Cs	116	HIS	Peptide
10	Cs	139	THR	Peptide
10	Cs	170	SER	Mainchain
10	Cs	185	GLY	Peptide
10	Cs	192	PHE	Peptide
10	Cs	57	LEU	Mainchain
10	Cs	71	GLY	Peptide
7	Ct	150	ARG	Sidechain
7	Ct	6	CYS	Peptide
5	Cu	83	MET	Peptide
8	Cv	120	CYS	Peptide
8	Cv	137	ARG	Peptide
8	Cv	139	SER	Peptide
8	Cv	140	PHE	Peptide
8	Cv	142	PRO	Peptide
8	Cv	146	TRP	Peptide
8	Cv	184	LYS	Peptide
8	Cv	196	PHE	Peptide
8	Cv	197	ASN	Peptide
8	Cv	212	SER	Peptide
8	Cv	224	ARG	Peptide
8	Cv	74	PRO	Peptide
9	Cw	122	ALA	Peptide
9	Cw	123	ARG	Sidechain
9	Cw	138	ARG	Sidechain
9	Cw	140	PHE	Peptide
9	Cw	142	THR	Peptide
9	Cw	177	ARG	Sidechain
9	Cw	190	HIS	Peptide
9	Cw	198	ASN	Peptide

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Mol	Chain	Res	Type	Group
9	Cw	199	ARG	Sidechain
9	Cw	200	GLY	Peptide
10	Cx	103	LYS	Peptide
10	Cx	116	HIS	Peptide
10	Cx	139	THR	Peptide
10	Cx	170	SER	Mainchain
10	Cx	185	GLY	Peptide
10	Cx	192	PHE	Peptide
10	Cx	57	LEU	Mainchain
10	Cx	71	GLY	Peptide
7	Cy	150	ARG	Sidechain
7	Cy	6	CYS	Peptide
5	Cz	83	MET	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A0	1191	0	1199	49	0
1	A5	1191	0	1199	54	0
1	AC	1191	0	1199	53	0
1	AH	1191	0	1199	53	0
1	AM	1191	0	1199	52	0
1	AR	1191	0	1199	52	0
1	AW	1191	0	1199	49	0
1	Ab	1191	0	1199	52	0
1	Ag	1191	0	1199	54	0
1	Al	1191	0	1199	53	0
1	Aq	1191	0	1199	52	0
1	Av	1191	0	1199	52	0
2	A1	1129	0	1104	78	0
2	A6	1129	0	1104	78	0
2	AD	1129	0	1104	77	0
2	AI	1129	0	1104	81	0
2	AN	1129	0	1104	81	0
2	AS	1129	0	1104	78	0
2	AX	1129	0	1104	77	0
2	Ac	1129	0	1104	79	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Ah	1129	0	1104	78	0
2	Am	1129	0	1104	81	0
2	Ar	1129	0	1104	79	0
2	Aw	1129	0	1104	77	0
3	A2	1209	0	1198	82	0
3	A3	1209	0	1198	99	0
3	A7	1209	0	1198	82	0
3	AA	1209	0	1198	96	0
3	AE	1209	0	1198	77	0
3	AF	1209	0	1198	93	0
3	AJ	1209	0	1198	80	0
3	AK	1209	0	1198	97	0
3	AO	1209	0	1198	82	0
3	AP	1209	0	1198	99	0
3	AT	1209	0	1198	81	0
3	AU	1209	0	1198	98	0
3	AY	1209	0	1198	81	0
3	AZ	1209	0	1198	98	0
3	Ad	1209	0	1198	82	0
3	Ae	1209	0	1198	95	0
3	Ai	1209	0	1198	78	0
3	Aj	1209	0	1198	94	0
3	An	1209	0	1198	80	0
3	Ao	1209	0	1198	97	0
3	As	1209	0	1198	82	0
3	At	1209	0	1198	99	0
3	Ax	1209	0	1198	80	0
3	Ay	1209	0	1198	98	0
4	A4	1148	0	1106	73	0
4	AB	1148	0	1106	74	0
4	AG	1148	0	1106	71	0
4	AL	1148	0	1106	71	0
4	AQ	1148	0	1106	74	0
4	AV	1148	0	1106	74	0
4	Aa	1148	0	1106	74	0
4	Af	1148	0	1106	75	0
4	Ak	1148	0	1106	70	0
4	Ap	1148	0	1106	74	0
4	Au	1148	0	1106	73	0
4	Az	1148	0	1106	75	0
4	B2	1148	0	1106	57	0
4	B3	1148	0	1106	61	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B7	1148	0	1106	55	0
4	BA	1148	0	1106	63	0
4	BE	1148	0	1106	58	0
4	BF	1148	0	1106	60	0
4	BJ	1148	0	1106	59	0
4	BK	1148	0	1106	63	0
4	BO	1148	0	1106	60	0
4	BP	1148	0	1106	59	0
4	BT	1148	0	1106	57	0
4	BU	1148	0	1106	58	0
4	BY	1148	0	1106	57	0
4	BZ	1148	0	1106	60	0
4	Bd	1148	0	1106	55	0
4	Be	1148	0	1106	63	0
4	Bi	1148	0	1106	58	0
4	Bj	1148	0	1106	60	0
4	Bn	1148	0	1106	60	0
4	Bo	1148	0	1106	63	0
4	Bs	1148	0	1106	60	0
4	Bt	1148	0	1106	60	0
4	Bx	1148	0	1106	57	0
4	By	1148	0	1106	59	0
5	B0	1129	0	1104	66	0
5	B5	1129	0	1104	65	0
5	BC	1129	0	1104	66	0
5	BH	1129	0	1104	66	0
5	BM	1129	0	1104	64	0
5	BR	1129	0	1104	63	0
5	BW	1129	0	1104	64	0
5	Bb	1129	0	1104	64	0
5	Bg	1129	0	1104	66	0
5	Bl	1129	0	1104	66	0
5	Bq	1129	0	1104	63	0
5	Bv	1129	0	1104	64	0
5	C4	1129	0	1104	74	0
5	CB	1129	0	1104	73	0
5	CG	1129	0	1104	72	0
5	CL	1129	0	1104	74	0
5	CQ	1129	0	1104	70	0
5	CV	1129	0	1104	72	0
5	Ca	1129	0	1104	75	0
5	Cf	1129	0	1104	72	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Ck	1129	0	1104	74	0
5	Cp	1129	0	1104	74	0
5	Cu	1129	0	1104	70	0
5	Cz	1129	0	1104	71	0
6	B1	1209	0	1198	103	0
6	B6	1209	0	1198	104	0
6	BD	1209	0	1198	105	0
6	BI	1209	0	1198	105	0
6	BN	1209	0	1198	102	0
6	BS	1209	0	1198	104	0
6	BX	1209	0	1198	102	0
6	Bc	1209	0	1198	104	0
6	Bh	1209	0	1198	107	0
6	Bm	1209	0	1198	104	0
6	Br	1209	0	1198	101	0
6	Bw	1209	0	1198	103	0
7	B4	1190	0	1199	61	0
7	BB	1190	0	1199	61	0
7	BG	1190	0	1199	59	0
7	BL	1190	0	1199	63	0
7	BQ	1190	0	1199	60	0
7	BV	1190	0	1199	61	0
7	Ba	1190	0	1199	60	0
7	Bf	1190	0	1199	61	0
7	Bk	1190	0	1199	59	0
7	Bp	1190	0	1199	62	0
7	Bu	1190	0	1199	61	0
7	Bz	1190	0	1199	61	0
7	C3	1190	0	1199	61	0
7	CA	1190	0	1199	61	0
7	CF	1190	0	1199	62	0
7	CK	1190	0	1199	62	0
7	CP	1190	0	1199	60	0
7	CU	1190	0	1199	61	0
7	CZ	1190	0	1199	61	0
7	Ce	1190	0	1199	61	0
7	Cj	1190	0	1199	61	0
7	Co	1190	0	1199	62	0
7	Ct	1190	0	1199	60	0
7	Cy	1190	0	1199	61	0
8	C0	1751	0	1643	317	0
8	C5	1751	0	1643	320	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	CC	1751	0	1643	323	0
8	CH	1751	0	1643	324	0
8	CM	1751	0	1643	326	0
8	CR	1751	0	1643	327	0
8	CW	1751	0	1643	321	0
8	Cb	1751	0	1643	322	0
8	Cg	1751	0	1643	320	0
8	Cl	1751	0	1643	325	0
8	Cq	1751	0	1643	330	0
8	Cv	1751	0	1643	325	0
9	C1	1755	0	1678	367	0
9	C6	1755	0	1678	362	0
9	CD	1755	0	1678	368	0
9	CI	1755	0	1678	367	0
9	CN	1755	0	1678	363	0
9	CS	1755	0	1678	366	0
9	CX	1755	0	1678	370	0
9	Cc	1755	0	1678	361	0
9	Ch	1755	0	1678	369	0
9	Cm	1755	0	1678	363	0
9	Cr	1755	0	1678	363	0
9	Cw	1755	0	1678	367	0
10	C2	1715	0	1587	419	0
10	C7	1715	0	1587	422	0
10	CE	1715	0	1587	427	0
10	CJ	1715	0	1587	427	0
10	CO	1715	0	1587	424	0
10	CT	1715	0	1587	428	0
10	CY	1715	0	1587	423	0
10	Cd	1715	0	1587	424	0
10	Ci	1715	0	1587	424	0
10	Cn	1715	0	1587	429	0
10	Cs	1715	0	1587	425	0
10	Cx	1715	0	1587	428	0
All	All	231000	0	224748	18966	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 42.

All (18966) 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)
8:C5:10:PHE:CD2	10:C7:10:HIS:CD2	1.79	1.70
8:CC:10:PHE:CD2	10:CE:10:HIS:CD2	1.79	1.70
8:Cb:10:PHE:CD2	10:Cd:10:HIS:CD2	1.79	1.70
8:Cg:10:PHE:CD2	10:Ci:10:HIS:CD2	1.79	1.70
9:CD:57:ILE:HG21	10:CE:57:LEU:CD1	1.22	1.65
9:CS:57:ILE:HG21	10:CT:57:LEU:CD1	1.22	1.65
9:Ch:57:ILE:HG21	10:Ci:57:LEU:CD1	1.22	1.65
9:Cw:38:ALA:CB	10:Cx:35:LEU:HD13	1.18	1.65
9:C1:38:ALA:HB2	10:C2:35:LEU:CD1	1.26	1.65
9:CX:38:ALA:HB2	10:CY:35:LEU:CD1	1.26	1.65
9:Cw:57:ILE:HG21	10:Cx:57:LEU:CD1	1.22	1.65
9:C1:57:ILE:HG21	10:C2:57:LEU:CD1	1.22	1.64
9:CS:38:ALA:CB	10:CT:35:LEU:HD13	1.18	1.64
8:CW:10:PHE:CD2	10:CY:10:HIS:CD2	1.79	1.64
8:C0:10:PHE:CD2	10:C2:10:HIS:CD2	1.79	1.64
9:C6:38:ALA:HB2	10:C7:35:LEU:CD1	1.25	1.64
8:CH:14:VAL:HG21	10:CJ:13:ILE:CG2	1.23	1.64
9:CX:57:ILE:HG21	10:CY:57:LEU:CD1	1.22	1.64
9:Cc:38:ALA:HB2	10:Cd:35:LEU:CD1	1.25	1.63
8:Cb:10:PHE:CG	10:Cd:10:HIS:CD2	1.87	1.63
8:C5:10:PHE:CG	10:C7:10:HIS:CD2	1.87	1.63
8:Cl:10:PHE:CD2	10:Cn:10:HIS:CD2	1.79	1.63
8:Cl:14:VAL:HG21	10:Cn:13:ILE:CG2	1.23	1.63
8:CH:10:PHE:CD2	10:CJ:10:HIS:CD2	1.79	1.62
9:CN:38:ALA:CB	10:CO:35:LEU:HD13	1.18	1.62
9:Cr:38:ALA:CB	10:Cs:35:LEU:HD13	1.18	1.62
8:CC:10:PHE:CG	10:CE:10:HIS:CD2	1.87	1.62
8:CM:10:PHE:CD2	10:CO:10:HIS:CD2	1.79	1.62
8:CC:14:VAL:HG21	10:CE:13:ILE:CG2	1.23	1.62
8:CM:14:VAL:HG21	10:CO:13:ILE:CG2	1.23	1.62
8:Cg:10:PHE:CG	10:Ci:10:HIS:CD2	1.87	1.62
8:Cg:14:VAL:HG21	10:Ci:13:ILE:CG2	1.23	1.62
9:Cm:57:ILE:HG21	10:Cn:57:LEU:CD1	1.22	1.61
8:Cq:10:PHE:CD2	10:Cs:10:HIS:CD2	1.79	1.61
9:C1:38:ALA:CB	10:C2:35:LEU:HD13	1.18	1.61
9:CI:57:ILE:HG21	10:CJ:57:LEU:CD1	1.22	1.61
8:Cq:14:VAL:HG21	10:Cs:13:ILE:CG2	1.23	1.61
9:CI:38:ALA:CB	10:CJ:35:LEU:HD13	1.18	1.61
9:Cm:46:PHE:CZ	10:Cn:47:ALA:CB	1.75	1.61
9:CX:38:ALA:CB	10:CY:35:LEU:HD13	1.18	1.60
9:CD:38:ALA:CB	10:CE:35:LEU:HD13	1.18	1.60
9:CI:46:PHE:CZ	10:CJ:47:ALA:CB	1.75	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CX:46:PHE:CZ	10:CY:47:ALA:CB	1.75	1.60
9:Cm:38:ALA:CB	10:Cn:35:LEU:HD13	1.18	1.60
8:CR:14:VAL:HG21	10:CT:13:ILE:CG2	1.23	1.60
9:CS:38:ALA:HB2	10:CT:35:LEU:CD1	1.26	1.60
9:CS:46:PHE:CZ	10:CT:47:ALA:CB	1.75	1.60
9:Cc:57:ILE:HG21	10:Cd:57:LEU:CD1	1.22	1.60
9:C1:46:PHE:CZ	10:C2:47:ALA:CB	1.75	1.59
9:Ch:38:ALA:CB	10:Ci:35:LEU:HD13	1.18	1.59
8:Cq:10:PHE:CG	10:Cs:10:HIS:CD2	1.87	1.59
9:Cw:38:ALA:HB2	10:Cx:35:LEU:CD1	1.26	1.59
8:C5:14:VAL:HG21	10:C7:13:ILE:CG2	1.23	1.59
9:CD:46:PHE:CZ	10:CE:47:ALA:CB	1.75	1.59
8:CW:10:PHE:CG	10:CY:10:HIS:CD2	1.87	1.59
9:Ch:38:ALA:HB2	10:Ci:35:LEU:CD1	1.26	1.59
8:CM:10:PHE:CG	10:CO:10:HIS:CD2	1.87	1.59
8:Cv:10:PHE:CD2	10:Cx:10:HIS:CD2	1.79	1.59
9:C6:57:ILE:HG21	10:C7:57:LEU:CD1	1.22	1.59
9:Ch:46:PHE:CZ	10:Ci:47:ALA:CB	1.75	1.59
8:Cv:14:VAL:HG21	10:Cx:13:ILE:CG2	1.23	1.59
9:Cw:46:PHE:CZ	10:Cx:47:ALA:CB	1.75	1.59
8:C0:10:PHE:CG	10:C2:10:HIS:CD2	1.87	1.59
9:CD:38:ALA:HB2	10:CE:35:LEU:CD1	1.26	1.59
8:Cb:14:VAL:HG21	10:Cd:13:ILE:CG2	1.23	1.59
8:CR:10:PHE:CD2	10:CT:10:HIS:CD2	1.79	1.58
8:Cl:28:LEU:HD11	10:Cn:27:SER:CB	1.34	1.58
8:CH:28:LEU:HD11	10:CJ:27:SER:CB	1.34	1.58
8:CH:10:PHE:CG	10:CJ:10:HIS:CD2	1.87	1.57
9:Cr:57:ILE:HG21	10:Cs:57:LEU:CD1	1.22	1.57
8:C0:28:LEU:HD11	10:C2:27:SER:CB	1.34	1.57
9:C6:38:ALA:CB	10:C7:35:LEU:HD13	1.18	1.57
9:CD:13:ARG:NH2	10:CE:14:ILE:CD1	1.68	1.57
8:CR:28:LEU:HD11	10:CT:27:SER:CB	1.34	1.57
8:Cl:10:PHE:CG	10:Cn:10:HIS:CD2	1.87	1.57
8:Cv:10:PHE:CG	10:Cx:10:HIS:CD2	1.87	1.57
8:C0:14:VAL:HG21	10:C2:13:ILE:CG2	1.23	1.57
8:CW:14:VAL:HG21	10:CY:13:ILE:CG2	1.23	1.57
9:Ch:13:ARG:NH2	10:Ci:14:ILE:CD1	1.68	1.57
8:Cv:28:LEU:HD11	10:Cx:27:SER:CB	1.34	1.57
8:CW:28:LEU:HD11	10:CY:27:SER:CB	1.34	1.57
9:CN:57:ILE:HG21	10:CO:57:LEU:CD1	1.22	1.56
8:CR:10:PHE:CG	10:CT:10:HIS:CD2	1.87	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cc:38:ALA:CB	10:Cd:35:LEU:HD13	1.18	1.56
8:CC:28:LEU:HD11	10:CE:27:SER:CB	1.34	1.56
9:CI:13:ARG:NH2	10:CJ:14:ILE:CD1	1.68	1.56
9:CN:46:PHE:CZ	10:CO:47:ALA:CB	1.75	1.56
9:Cc:46:PHE:CZ	10:Cd:47:ALA:CB	1.75	1.56
8:Cg:28:LEU:HD11	10:CI:27:SER:CB	1.34	1.56
9:Cm:13:ARG:NH2	10:Cn:14:ILE:CD1	1.68	1.56
9:Cr:46:PHE:CZ	10:Cs:47:ALA:CB	1.75	1.56
9:C6:46:PHE:CZ	10:C7:47:ALA:CB	1.75	1.56
9:CN:38:ALA:HB2	10:CO:35:LEU:CD1	1.25	1.55
8:Cg:14:VAL:CG2	10:CI:13:ILE:HG21	1.35	1.55
8:CC:14:VAL:CG2	10:CE:13:ILE:HG21	1.35	1.55
9:Cr:38:ALA:HB2	10:Cs:35:LEU:CD1	1.25	1.55
9:C6:13:ARG:NH2	10:C7:14:ILE:CD1	1.68	1.55
8:CH:14:VAL:CG2	10:CJ:13:ILE:HG21	1.35	1.55
9:CI:38:ALA:HB2	10:CJ:35:LEU:CD1	1.26	1.54
9:Cc:13:ARG:NH2	10:Cd:14:ILE:CD1	1.68	1.54
8:Cl:14:VAL:CG2	10:Cn:13:ILE:HG21	1.35	1.54
8:CR:14:VAL:CG2	10:CT:13:ILE:HG21	1.35	1.54
8:Cv:14:VAL:CG2	10:Cx:13:ILE:HG21	1.35	1.54
9:Cm:38:ALA:HB2	10:Cn:35:LEU:CD1	1.26	1.54
9:CN:13:ARG:NH2	10:CO:14:ILE:CD1	1.68	1.53
8:Cq:28:LEU:HD11	10:Cs:27:SER:CB	1.34	1.53
9:Cr:13:ARG:NH2	10:Cs:14:ILE:CD1	1.68	1.53
8:Cb:28:LEU:HD11	10:Cd:27:SER:CB	1.34	1.52
8:C0:14:VAL:CG2	10:C2:13:ILE:HG21	1.35	1.52
8:C5:14:VAL:CG2	10:C7:13:ILE:HG21	1.35	1.52
8:CM:28:LEU:HD11	10:CO:27:SER:CB	1.34	1.52
8:Cb:14:VAL:CG2	10:Cd:13:ILE:HG21	1.35	1.52
8:C5:28:LEU:HD11	10:C7:27:SER:CB	1.34	1.52
8:CW:14:VAL:CG2	10:CY:13:ILE:HG21	1.35	1.52
8:CM:14:VAL:CG2	10:CO:13:ILE:HG21	1.35	1.51
8:Cq:14:VAL:CG2	10:Cs:13:ILE:HG21	1.35	1.51
9:C1:13:ARG:NH2	10:C2:14:ILE:CD1	1.68	1.50
9:CX:13:ARG:NH2	10:CY:14:ILE:CD1	1.68	1.50
9:CN:14:LEU:CG	10:CO:14:ILE:HG22	1.42	1.49
9:Cw:14:LEU:CG	10:Cx:14:ILE:HG22	1.42	1.49
9:CS:14:LEU:CG	10:CT:14:ILE:HG22	1.42	1.49
9:Cr:14:LEU:CG	10:Cs:14:ILE:HG22	1.42	1.49
9:CS:13:ARG:NH2	10:CT:14:ILE:CD1	1.68	1.49
9:Cm:31:LEU:HD12	10:Cn:28:ILE:CG2	1.43	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C6:14:LEU:CG	10:C7:14:ILE:HG22	1.42	1.48
9:CI:31:LEU:HD12	10:CJ:28:ILE:CG2	1.43	1.48
9:CN:31:LEU:HD12	10:CO:28:ILE:CG2	1.43	1.48
9:C1:14:LEU:CG	10:C2:14:ILE:HG22	1.42	1.48
9:Cc:14:LEU:CG	10:Cd:14:ILE:HG22	1.42	1.48
9:Cr:31:LEU:HD12	10:Cs:28:ILE:CG2	1.43	1.48
9:CX:14:LEU:CG	10:CY:14:ILE:HG22	1.42	1.48
9:Cw:13:ARG:NH2	10:Cx:14:ILE:CD1	1.68	1.48
9:Ch:14:LEU:CG	10:Ci:14:ILE:HG22	1.42	1.47
9:CD:14:LEU:CG	10:CE:14:ILE:HG22	1.42	1.47
9:CI:14:LEU:CG	10:CJ:14:ILE:HG22	1.42	1.47
9:CI:42:ASP:N	10:CJ:38:ARG:NH2	1.63	1.47
9:C1:46:PHE:CE1	10:C2:47:ALA:HB1	1.49	1.47
9:CX:46:PHE:CE1	10:CY:47:ALA:HB1	1.49	1.47
9:Ch:31:LEU:HD12	10:Ci:28:ILE:CG2	1.43	1.47
9:Cm:42:ASP:N	10:Cn:38:ARG:NH2	1.63	1.47
9:CD:31:LEU:HD12	10:CE:28:ILE:CG2	1.43	1.46
9:C1:42:ASP:N	10:C2:38:ARG:NH2	1.63	1.46
9:C6:42:ASP:N	10:C7:38:ARG:NH2	1.63	1.46
9:Cc:42:ASP:N	10:Cd:38:ARG:NH2	1.63	1.46
9:Cm:14:LEU:CG	10:Cn:14:ILE:HG22	1.42	1.46
9:CX:42:ASP:N	10:CY:38:ARG:NH2	1.63	1.46
9:CS:31:LEU:HD12	10:CT:28:ILE:CG2	1.43	1.46
9:CD:42:ASP:N	10:CE:38:ARG:NH2	1.63	1.46
9:Ch:42:ASP:N	10:Ci:38:ARG:NH2	1.63	1.46
9:Cm:24:LEU:HD23	10:Cn:24:ILE:CG2	1.46	1.46
9:Cm:46:PHE:CE1	10:Cn:47:ALA:HB1	1.49	1.46
9:CI:24:LEU:HD23	10:CJ:24:ILE:CG2	1.46	1.45
9:CI:46:PHE:CE1	10:CJ:47:ALA:HB1	1.49	1.45
9:Cw:31:LEU:HD12	10:Cx:28:ILE:CG2	1.43	1.45
9:CS:24:LEU:HD23	10:CT:24:ILE:CG2	1.46	1.45
9:Cw:46:PHE:CE1	10:Cx:47:ALA:HB1	1.50	1.45
9:CS:46:PHE:CE1	10:CT:47:ALA:HB1	1.50	1.45
9:Cc:46:PHE:CE1	10:Cd:47:ALA:HB1	1.50	1.45
9:Cw:24:LEU:HD23	10:Cx:24:ILE:CG2	1.46	1.45
9:C6:46:PHE:CE1	10:C7:47:ALA:HB1	1.50	1.45
9:CD:46:PHE:CE1	10:CE:47:ALA:HB1	1.50	1.44
9:Ch:46:PHE:CE1	10:Ci:47:ALA:HB1	1.50	1.44
9:CD:24:LEU:HD23	10:CE:24:ILE:CG2	1.46	1.44
9:CS:42:ASP:N	10:CT:38:ARG:NH2	1.63	1.44
9:C6:31:LEU:HD12	10:C7:28:ILE:CG2	1.43	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ch:24:LEU:HD23	10:Ci:24:ILE:CG2	1.46	1.43
9:Cw:42:ASP:N	10:Cx:38:ARG:NH2	1.63	1.43
9:C1:24:LEU:HD23	10:C2:24:ILE:CG2	1.46	1.43
9:Cr:42:ASP:N	10:Cs:38:ARG:NH2	1.63	1.43
9:CX:24:LEU:HD23	10:CY:24:ILE:CG2	1.46	1.43
9:CX:31:LEU:HD12	10:CY:28:ILE:CG2	1.43	1.43
9:Cc:31:LEU:HD12	10:Cd:28:ILE:CG2	1.43	1.43
9:CN:42:ASP:N	10:CO:38:ARG:NH2	1.63	1.43
9:C1:31:LEU:HD12	10:C2:28:ILE:CG2	1.43	1.43
9:CN:46:PHE:CE1	10:CO:47:ALA:HB1	1.50	1.42
9:CN:24:LEU:HD23	10:CO:24:ILE:CG2	1.46	1.42
9:Cr:24:LEU:HD23	10:Cs:24:ILE:CG2	1.46	1.42
9:Cr:46:PHE:CE1	10:Cs:47:ALA:HB1	1.50	1.42
9:C6:41:ILE:C	10:C7:38:ARG:NH2	1.78	1.42
9:Cc:41:ILE:C	10:Cd:38:ARG:NH2	1.78	1.42
9:CN:41:ILE:C	10:CO:38:ARG:NH2	1.78	1.41
9:Cr:41:ILE:C	10:Cs:38:ARG:NH2	1.78	1.41
9:C6:14:LEU:HD21	10:C7:14:ILE:CG2	1.50	1.41
9:CX:41:ILE:C	10:CY:38:ARG:NH2	1.78	1.41
9:Cc:14:LEU:HD21	10:Cd:14:ILE:CG2	1.50	1.41
9:C6:24:LEU:HD23	10:C7:24:ILE:CG2	1.46	1.40
9:C1:41:ILE:C	10:C2:38:ARG:NH2	1.78	1.40
9:Cc:24:LEU:HD23	10:Cd:24:ILE:CG2	1.46	1.40
9:CI:14:LEU:HD21	10:CJ:14:ILE:CG2	1.50	1.40
9:CX:14:LEU:HD21	10:CY:14:ILE:CG2	1.50	1.40
9:Cm:14:LEU:HD21	10:Cn:14:ILE:CG2	1.50	1.40
9:C1:14:LEU:CD2	10:C2:14:ILE:HG21	1.51	1.40
9:C1:14:LEU:HD21	10:C2:14:ILE:CG2	1.50	1.40
9:CN:14:LEU:CD2	10:CO:14:ILE:HG21	1.51	1.40
9:CS:41:ILE:C	10:CT:38:ARG:NH2	1.78	1.40
9:CX:14:LEU:CD2	10:CY:14:ILE:HG21	1.51	1.40
9:Cw:14:LEU:HD21	10:Cx:14:ILE:CG2	1.50	1.40
9:Cw:41:ILE:C	10:Cx:38:ARG:NH2	1.78	1.40
9:CS:14:LEU:HD21	10:CT:14:ILE:CG2	1.50	1.39
9:Cr:14:LEU:CD2	10:Cs:14:ILE:HG21	1.51	1.39
9:CI:41:ILE:C	10:CJ:38:ARG:NH2	1.78	1.39
9:CI:14:LEU:CD2	10:CJ:14:ILE:HG21	1.51	1.39
9:CN:14:LEU:HD21	10:CO:14:ILE:CG2	1.50	1.39
9:Ch:14:LEU:CD2	10:Ci:14:ILE:HG21	1.51	1.39
9:Cm:41:ILE:C	10:Cn:38:ARG:NH2	1.78	1.39
9:Cr:14:LEU:HD21	10:Cs:14:ILE:CG2	1.50	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cw:14:LEU:CD2	10:Cx:14:ILE:HG21	1.51	1.39
9:CD:14:LEU:CD2	10:CE:14:ILE:HG21	1.51	1.39
9:CS:14:LEU:CD2	10:CT:14:ILE:HG21	1.51	1.39
9:Cm:14:LEU:CD2	10:Cn:14:ILE:HG21	1.51	1.38
9:Ch:41:ILE:C	10:Ci:38:ARG:NH2	1.78	1.38
9:CD:14:LEU:HD21	10:CE:14:ILE:CG2	1.50	1.38
9:CD:41:ILE:C	10:CE:38:ARG:NH2	1.78	1.38
9:Cc:14:LEU:CD2	10:Cd:14:ILE:HG21	1.51	1.38
9:C6:14:LEU:CD2	10:C7:14:ILE:HG21	1.51	1.38
9:CD:14:LEU:CD1	10:CE:14:ILE:HG22	1.53	1.38
9:CD:46:PHE:CZ	10:CE:47:ALA:HB1	0.85	1.38
9:Ch:14:LEU:CD1	10:Ci:14:ILE:HG22	1.53	1.38
9:Ch:14:LEU:HD21	10:Ci:14:ILE:CG2	1.50	1.38
9:Ch:46:PHE:CZ	10:Ci:47:ALA:HB1	0.85	1.38
9:Cm:14:LEU:CD1	10:Cn:14:ILE:HG22	1.53	1.38
9:CI:14:LEU:CD1	10:CJ:14:ILE:HG22	1.53	1.38
9:CI:46:PHE:CZ	10:CJ:47:ALA:HB1	0.85	1.37
9:Cm:46:PHE:CZ	10:Cn:47:ALA:HB1	0.85	1.38
9:Cr:14:LEU:CD1	10:Cs:14:ILE:HG22	1.53	1.37
9:Cw:14:LEU:CD1	10:Cx:14:ILE:HG22	1.53	1.37
9:C1:46:PHE:CZ	10:C2:47:ALA:HB1	0.85	1.37
9:CS:14:LEU:CD1	10:CT:14:ILE:HG22	1.53	1.37
9:Cw:46:PHE:CZ	10:Cx:47:ALA:HB1	0.85	1.37
9:CN:14:LEU:CD1	10:CO:14:ILE:HG22	1.53	1.37
9:CS:46:PHE:CZ	10:CT:47:ALA:HB1	0.85	1.37
9:CX:46:PHE:CZ	10:CY:47:ALA:HB1	0.85	1.37
9:C6:46:PHE:CZ	10:C7:47:ALA:HB1	0.85	1.36
9:Cc:14:LEU:CD1	10:Cd:14:ILE:HG22	1.53	1.36
9:Cc:46:PHE:CZ	10:Cd:47:ALA:HB1	0.85	1.36
9:C6:14:LEU:CD1	10:C7:14:ILE:HG22	1.53	1.36
9:C1:14:LEU:CD1	10:C2:14:ILE:HG22	1.53	1.36
9:Cr:46:PHE:CZ	10:Cs:47:ALA:HB1	0.85	1.36
9:C1:34:LYS:NZ	10:C2:32:GLU:OE2	1.58	1.36
9:CN:46:PHE:CZ	10:CO:47:ALA:HB1	0.85	1.36
9:CX:34:LYS:NZ	10:CY:32:GLU:OE2	1.58	1.36
9:CD:34:LYS:O	10:CE:35:LEU:CD1	1.74	1.35
9:CX:14:LEU:CD1	10:CY:14:ILE:HG22	1.53	1.35
9:Ch:34:LYS:O	10:Ci:35:LEU:CD1	1.74	1.35
9:CI:34:LYS:O	10:CJ:35:LEU:CD1	1.74	1.35
9:Cm:34:LYS:O	10:Cn:35:LEU:CD1	1.74	1.35
9:CD:57:ILE:CG2	10:CE:57:LEU:HD13	1.57	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:41:ILE:O	10:CJ:38:ARG:NE	1.59	1.35
9:CS:42:ASP:HA	10:CT:38:ARG:CZ	1.57	1.35
9:Ch:57:ILE:CG2	10:CI:57:LEU:HD13	1.57	1.35
9:Cw:42:ASP:HA	10:Cx:38:ARG:CZ	1.57	1.35
9:C6:34:LYS:O	10:C7:35:LEU:CD1	1.74	1.35
9:Cm:41:ILE:O	10:Cn:38:ARG:NE	1.59	1.35
9:Cc:34:LYS:O	10:Cd:35:LEU:CD1	1.74	1.34
9:Cr:34:LYS:NZ	10:Cs:32:GLU:OE2	1.58	1.34
9:C6:34:LYS:NZ	10:C7:32:GLU:OE2	1.58	1.34
9:CN:34:LYS:NZ	10:CO:32:GLU:OE2	1.58	1.34
9:Cm:57:ILE:CG2	10:Cn:57:LEU:HD13	1.57	1.34
9:CI:57:ILE:CG2	10:CJ:57:LEU:HD13	1.57	1.34
9:CN:42:ASP:HA	10:CO:38:ARG:CZ	1.57	1.34
9:CS:57:ILE:CG2	10:CT:57:LEU:HD13	1.57	1.34
9:Cw:57:ILE:CG2	10:Cx:57:LEU:HD13	1.57	1.34
9:CN:34:LYS:O	10:CO:35:LEU:CD1	1.74	1.34
9:Cc:34:LYS:NZ	10:Cd:32:GLU:OE2	1.58	1.34
9:Cc:57:ILE:CG2	10:Cd:57:LEU:HD13	1.57	1.34
9:CN:13:ARG:NH2	10:CO:14:ILE:HD12	1.29	1.33
9:CS:34:LYS:NZ	10:CT:32:GLU:OE2	1.58	1.33
9:CS:34:LYS:O	10:CT:35:LEU:CD1	1.74	1.33
9:Cr:34:LYS:O	10:Cs:35:LEU:CD1	1.74	1.33
9:Cr:42:ASP:HA	10:Cs:38:ARG:CZ	1.57	1.33
9:Cw:34:LYS:NZ	10:Cx:32:GLU:OE2	1.58	1.33
9:C6:57:ILE:CG2	10:C7:57:LEU:HD13	1.57	1.33
9:CD:41:ILE:O	10:CE:38:ARG:NE	1.59	1.33
9:Cr:13:ARG:NH2	10:Cs:14:ILE:HD12	1.29	1.33
9:Cw:34:LYS:O	10:Cx:35:LEU:CD1	1.74	1.33
9:C1:34:LYS:O	10:C2:35:LEU:CD1	1.74	1.33
9:CX:34:LYS:O	10:CY:35:LEU:CD1	1.74	1.33
9:C1:42:ASP:HA	10:C2:38:ARG:CZ	1.57	1.33
9:CN:41:ILE:O	10:CO:38:ARG:NE	1.59	1.33
9:Cc:42:ASP:HA	10:Cd:38:ARG:CZ	1.57	1.33
9:Ch:41:ILE:O	10:CI:38:ARG:NE	1.59	1.33
9:Cr:41:ILE:O	10:Cs:38:ARG:NE	1.59	1.33
9:C1:57:ILE:CG2	10:C2:57:LEU:HD13	1.57	1.33
9:C6:42:ASP:HA	10:C7:38:ARG:CZ	1.57	1.33
9:CN:57:ILE:CG2	10:CO:57:LEU:HD13	1.57	1.33
9:CX:42:ASP:HA	10:CY:38:ARG:CZ	1.57	1.33
9:CX:57:ILE:CG2	10:CY:57:LEU:HD13	1.57	1.32
9:Cm:34:LYS:NZ	10:Cn:32:GLU:OE2	1.58	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cm:42:ASP:HA	10:Cn:38:ARG:CZ	1.57	1.32
9:Cr:57:ILE:CG2	10:Cs:57:LEU:HD13	1.57	1.32
9:CD:42:ASP:HA	10:CE:38:ARG:CZ	1.57	1.32
9:CI:42:ASP:HA	10:CJ:38:ARG:CZ	1.57	1.32
9:Ch:42:ASP:HA	10:Ci:38:ARG:CZ	1.57	1.32
9:CI:34:LYS:NZ	10:CJ:32:GLU:OE2	1.58	1.32
9:CS:41:ILE:O	10:CT:38:ARG:NE	1.59	1.32
9:Cc:20:LEU:CD2	10:Cd:21:THR:HG21	1.59	1.32
9:C6:20:LEU:CD2	10:C7:21:THR:HG21	1.59	1.32
8:CR:28:LEU:CD1	10:CT:27:SER:HB2	1.60	1.32
9:CX:20:LEU:CD2	10:CY:21:THR:HG21	1.59	1.32
8:Cv:28:LEU:CD1	10:Cx:27:SER:HB2	1.60	1.32
9:Cw:41:ILE:O	10:Cx:38:ARG:NE	1.59	1.32
9:C1:20:LEU:CD2	10:C2:21:THR:HG21	1.59	1.32
8:Cg:28:LEU:CD1	10:Ci:27:SER:HB2	1.60	1.31
8:CC:28:LEU:CD1	10:CE:27:SER:HB2	1.60	1.31
9:CD:34:LYS:NZ	10:CE:32:GLU:OE2	1.58	1.31
9:Ch:34:LYS:NZ	10:Ci:32:GLU:OE2	1.58	1.31
9:CS:17:ASN:CG	10:CT:17:LEU:HD13	1.55	1.30
9:C6:17:ASN:CG	10:C7:17:LEU:HD13	1.55	1.30
8:CH:28:LEU:CD1	10:CJ:27:SER:HB2	1.60	1.30
9:CX:41:ILE:O	10:CY:38:ARG:NE	1.59	1.30
9:Cc:41:ILE:O	10:Cd:38:ARG:NE	1.59	1.30
8:Cl:28:LEU:CD1	10:Cn:27:SER:HB2	1.60	1.30
9:Cw:17:ASN:CG	10:Cx:17:LEU:HD13	1.55	1.30
9:C1:31:LEU:CD1	10:C2:28:ILE:HG23	1.61	1.30
9:C1:41:ILE:O	10:C2:38:ARG:NE	1.59	1.30
9:C6:31:LEU:CD1	10:C7:28:ILE:HG23	1.61	1.30
9:C6:41:ILE:O	10:C7:38:ARG:NE	1.59	1.30
9:CN:20:LEU:CD2	10:CO:21:THR:HG21	1.59	1.30
9:CS:31:LEU:CD1	10:CT:28:ILE:HG23	1.61	1.30
9:CX:31:LEU:CD1	10:CY:28:ILE:HG23	1.61	1.30
9:Cc:17:ASN:CG	10:Cd:17:LEU:HD13	1.55	1.30
9:Ch:20:LEU:CD2	10:Ci:21:THR:HG21	1.59	1.30
9:CD:20:LEU:CD2	10:CE:21:THR:HG21	1.59	1.30
9:Cc:31:LEU:CD1	10:Cd:28:ILE:HG23	1.61	1.30
9:Cr:20:LEU:CD2	10:Cs:21:THR:HG21	1.59	1.30
9:Cw:31:LEU:CD1	10:Cx:28:ILE:HG23	1.61	1.30
8:C0:28:LEU:CD1	10:C2:27:SER:HB2	1.60	1.30
9:CS:20:LEU:CD2	10:CT:21:THR:HG21	1.59	1.30
9:Ch:31:LEU:CD1	10:Ci:28:ILE:HG23	1.61	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CD:17:ASN:CG	10:CE:17:LEU:HD13	1.55	1.29
9:CD:31:LEU:CD1	10:CE:28:ILE:HG23	1.61	1.29
8:CM:28:LEU:CD1	10:CO:27:SER:HB2	1.59	1.29
8:CW:28:LEU:CD1	10:CY:27:SER:HB2	1.60	1.29
9:Ch:17:ASN:CG	10:Ci:17:LEU:HD13	1.55	1.29
9:Cw:20:LEU:CD2	10:Cx:21:THR:HG21	1.59	1.29
9:CN:17:ASN:CG	10:CO:17:LEU:HD13	1.55	1.29
9:CX:17:ASN:CG	10:CY:17:LEU:HD13	1.55	1.29
9:Cm:17:ASN:CG	10:Cn:17:LEU:HD13	1.55	1.29
9:Cm:20:LEU:CD2	10:Cn:21:THR:HG21	1.59	1.29
8:Cq:28:LEU:CD1	10:Cs:27:SER:HB2	1.59	1.29
9:Cr:17:ASN:CG	10:Cs:17:LEU:HD13	1.55	1.29
9:C1:17:ASN:CG	10:C2:17:LEU:HD13	1.55	1.29
9:CI:17:ASN:CG	10:CJ:17:LEU:HD13	1.55	1.29
9:CI:20:LEU:CD2	10:CJ:21:THR:HG21	1.59	1.29
9:CN:31:LEU:CD1	10:CO:28:ILE:HG23	1.61	1.29
8:CR:14:VAL:CG2	10:CT:13:ILE:CG2	2.00	1.29
8:C5:28:LEU:CD1	10:C7:27:SER:HB2	1.59	1.28
9:CI:13:ARG:NH2	10:CJ:14:ILE:HD12	1.28	1.28
8:Cb:28:LEU:CD1	10:Cd:27:SER:HB2	1.59	1.28
9:Cr:31:LEU:CD1	10:Cs:28:ILE:HG23	1.61	1.28
9:CS:24:LEU:HD21	10:CT:21:THR:O	1.32	1.28
9:Cw:24:LEU:HD21	10:Cx:21:THR:O	1.32	1.28
8:Cv:14:VAL:CG2	10:Cx:13:ILE:CG2	2.00	1.28
9:Cm:31:LEU:CD1	10:Cn:28:ILE:HG23	1.61	1.28
9:CI:31:LEU:CD1	10:CJ:28:ILE:HG23	1.61	1.28
9:Cm:13:ARG:NH2	10:Cn:14:ILE:HD12	1.28	1.28
9:CX:13:ARG:NH2	10:CY:14:ILE:HD12	1.28	1.27
9:C1:13:ARG:NH2	10:C2:14:ILE:HD12	1.28	1.27
9:Cc:13:ARG:NH2	10:Cd:14:ILE:HD12	1.29	1.26
8:Cq:10:PHE:CD2	10:Cs:10:HIS:CG	2.23	1.26
8:CM:10:PHE:CD2	10:CO:10:HIS:CG	2.23	1.26
8:C0:10:PHE:CD2	10:C2:10:HIS:CG	2.23	1.26
9:C6:13:ARG:NH2	10:C7:14:ILE:HD12	1.29	1.26
8:CW:10:PHE:CD2	10:CY:10:HIS:CG	2.23	1.26
9:Cr:14:LEU:HD11	10:Cs:14:ILE:CB	1.66	1.25
9:CN:14:LEU:HD11	10:CO:14:ILE:CB	1.66	1.25
8:CC:14:VAL:CG2	10:CE:13:ILE:CG2	2.00	1.25
9:CI:14:LEU:HD11	10:CJ:14:ILE:CB	1.66	1.25
8:Cl:10:PHE:CD2	10:Cn:10:HIS:CG	2.23	1.25
9:Cm:14:LEU:HD11	10:Cn:14:ILE:CB	1.66	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cl:56:ASN:HB3	8:Cl:199:GLY:C	1.62	1.25
9:Cm:24:LEU:HD21	10:Cn:21:THR:O	1.32	1.25
8:C5:10:PHE:CD2	10:C7:10:HIS:CG	2.23	1.25
8:CH:10:PHE:CD2	10:CJ:10:HIS:CG	2.23	1.25
8:CH:56:ASN:HB3	8:CH:199:GLY:C	1.62	1.25
9:CI:24:LEU:HD21	10:CJ:21:THR:O	1.32	1.25
8:C0:56:ASN:HB3	8:C0:199:GLY:C	1.62	1.25
8:CC:56:ASN:HB3	8:CC:199:GLY:C	1.62	1.25
9:CD:13:ARG:NH2	10:CE:14:ILE:HD12	1.28	1.25
8:Cb:10:PHE:CD2	10:Cd:10:HIS:CG	2.23	1.25
8:Cg:14:VAL:CG2	10:Ci:13:ILE:CG2	2.00	1.25
8:CR:10:PHE:CD2	10:CT:10:HIS:CG	2.23	1.24
8:CW:56:ASN:HB3	8:CW:199:GLY:C	1.62	1.24
8:Cg:56:ASN:HB3	8:Cg:199:GLY:C	1.62	1.24
9:Ch:13:ARG:NH2	10:Ci:14:ILE:HD12	1.28	1.24
8:Cv:10:PHE:CD2	10:Cx:10:HIS:CG	2.23	1.24
9:Cw:14:LEU:HD11	10:Cx:14:ILE:CB	1.66	1.24
8:CR:56:ASN:HB3	8:CR:199:GLY:C	1.62	1.24
9:CS:13:ARG:NH2	10:CT:14:ILE:HD12	1.28	1.24
9:CS:14:LEU:HD11	10:CT:14:ILE:CB	1.66	1.24
9:CX:14:LEU:CG	10:CY:14:ILE:CG2	2.15	1.24
9:Cc:14:LEU:HD11	10:Cd:14:ILE:CB	1.66	1.24
9:Ch:14:LEU:CG	10:Ci:14:ILE:CG2	2.15	1.24
9:C1:14:LEU:CG	10:C2:14:ILE:CG2	2.15	1.24
9:C6:14:LEU:HD11	10:C7:14:ILE:CB	1.66	1.24
8:CC:10:PHE:CD2	10:CE:10:HIS:CG	2.23	1.24
9:CD:14:LEU:CG	10:CE:14:ILE:CG2	2.15	1.24
9:CD:14:LEU:CD2	10:CE:14:ILE:CG2	2.12	1.24
9:Ch:14:LEU:HD11	10:Ci:14:ILE:CB	1.66	1.24
8:Cv:56:ASN:HB3	8:Cv:199:GLY:C	1.62	1.24
9:CD:14:LEU:HD11	10:CE:14:ILE:CB	1.66	1.24
9:CS:14:LEU:CG	10:CT:14:ILE:CG2	2.15	1.24
8:Cg:10:PHE:CD2	10:Ci:10:HIS:CG	2.23	1.24
8:CM:14:VAL:CG2	10:CO:13:ILE:CG2	2.00	1.23
9:Cw:14:LEU:CG	10:Cx:14:ILE:CG2	2.15	1.23
9:CX:14:LEU:HD11	10:CY:14:ILE:CB	1.66	1.23
9:Cw:13:ARG:NH2	10:Cx:14:ILE:HD12	1.28	1.23
9:C1:14:LEU:HD11	10:C2:14:ILE:CB	1.66	1.23
9:C6:14:LEU:CG	10:C7:14:ILE:CG2	2.15	1.23
8:Cb:14:VAL:CG2	10:Cd:13:ILE:CG2	2.00	1.23
8:Cb:56:ASN:HB3	8:Cb:199:GLY:C	1.62	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cq:14:VAL:CG2	10:Cs:13:ILE:CG2	2.00	1.23
9:Cr:24:LEU:HD21	10:Cs:21:THR:O	1.32	1.23
9:Cw:34:LYS:O	10:Cx:35:LEU:HD11	1.34	1.23
9:C1:24:LEU:HD21	10:C2:21:THR:O	1.32	1.23
9:Cc:14:LEU:CG	10:Cd:14:ILE:CG2	2.15	1.23
8:C5:56:ASN:HB3	8:C5:199:GLY:C	1.62	1.22
9:CN:24:LEU:HD21	10:CO:21:THR:O	1.32	1.22
9:Cm:14:LEU:CD2	10:Cn:14:ILE:CG2	2.12	1.22
8:C5:14:VAL:CG2	10:C7:13:ILE:CG2	2.00	1.22
9:C6:17:ASN:OD1	10:C7:17:LEU:HD13	1.36	1.22
9:Cm:14:LEU:CG	10:Cn:14:ILE:CG2	2.15	1.22
8:Cq:56:ASN:HB3	8:Cq:199:GLY:C	1.62	1.22
9:CI:14:LEU:CD2	10:CJ:14:ILE:CG2	2.12	1.22
9:CN:14:LEU:CG	10:CO:14:ILE:CG2	2.15	1.22
9:CS:17:ASN:OD1	10:CT:17:LEU:HD13	1.36	1.22
9:CX:24:LEU:HD21	10:CY:21:THR:O	1.32	1.22
9:Cr:14:LEU:CG	10:Cs:14:ILE:CG2	2.15	1.22
9:CI:14:LEU:CG	10:CJ:14:ILE:CG2	2.15	1.22
8:CM:56:ASN:HB3	8:CM:199:GLY:C	1.62	1.22
8:CR:35:TYR:OH	10:CT:34:LEU:CD2	1.79	1.22
9:Ch:14:LEU:CD2	10:CI:14:ILE:CG2	2.12	1.22
9:Cr:14:LEU:CD2	10:Cs:14:ILE:CG2	2.12	1.22
9:Cc:17:ASN:OD1	10:Cd:17:LEU:HD13	1.36	1.22
8:C0:56:ASN:CB	8:C0:199:GLY:C	2.13	1.21
8:CH:14:VAL:CG2	10:CJ:13:ILE:CG2	2.00	1.21
9:CN:14:LEU:CD2	10:CO:14:ILE:CG2	2.12	1.21
8:CW:56:ASN:CB	8:CW:199:GLY:C	2.13	1.21
8:Cv:56:ASN:CB	8:Cv:199:GLY:C	2.13	1.21
9:Cw:17:ASN:OD1	10:Cx:17:LEU:HD13	1.36	1.21
8:C5:56:ASN:CB	8:C5:199:GLY:C	2.13	1.21
8:CR:56:ASN:CB	8:CR:199:GLY:C	2.13	1.21
8:Cb:56:ASN:CB	8:Cb:199:GLY:C	2.13	1.21
9:CX:34:LYS:O	10:CY:35:LEU:HD11	1.34	1.21
8:Cq:35:TYR:OH	10:Cs:34:LEU:CD2	1.80	1.21
9:CD:24:LEU:HD21	10:CE:21:THR:O	1.32	1.21
9:Cc:13:ARG:NH1	10:Cd:14:ILE:HG13	1.55	1.21
9:C1:17:ASN:OD1	10:C2:17:LEU:HD13	1.36	1.21
9:C6:13:ARG:NH1	10:C7:14:ILE:HG13	1.55	1.21
8:CM:35:TYR:OH	10:CO:34:LEU:CD2	1.80	1.21
9:Ch:24:LEU:HD21	10:CI:21:THR:O	1.32	1.21
8:Cl:14:VAL:CG2	10:Cn:13:ILE:CG2	2.00	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:56:ASN:CB	8:CC:199:GLY:C	2.13	1.20
9:CD:13:ARG:NH1	10:CE:14:ILE:HG13	1.55	1.20
8:Cg:56:ASN:CB	8:Cg:199:GLY:C	2.13	1.20
9:C1:13:ARG:NH1	10:C2:14:ILE:HG13	1.55	1.20
9:C1:34:LYS:O	10:C2:35:LEU:HD11	1.34	1.20
9:C6:14:LEU:HD11	10:C7:14:ILE:CG2	1.71	1.20
9:C6:24:LEU:HD21	10:C7:21:THR:O	1.32	1.20
8:CH:56:ASN:CB	8:CH:199:GLY:C	2.13	1.20
9:CI:17:ASN:OD1	10:CJ:17:LEU:HD13	1.36	1.20
9:CX:13:ARG:NH1	10:CY:14:ILE:HG13	1.55	1.20
9:CX:17:ASN:OD1	10:CY:17:LEU:HD13	1.36	1.20
9:Ch:13:ARG:NH1	10:Ci:14:ILE:HG13	1.55	1.20
9:Cm:17:ASN:OD1	10:Cn:17:LEU:HD13	1.36	1.20
8:Cq:56:ASN:CB	8:Cq:199:GLY:C	2.13	1.20
8:CM:10:PHE:CE2	10:CO:10:HIS:CG	2.30	1.20
9:Cc:14:LEU:HD11	10:Cd:14:ILE:CG2	1.71	1.20
9:Cc:24:LEU:HD21	10:Cd:21:THR:O	1.32	1.20
8:Cl:56:ASN:CB	8:Cl:199:GLY:C	2.13	1.20
9:CI:13:ARG:NH1	10:CJ:14:ILE:HG13	1.55	1.20
8:CM:56:ASN:CB	8:CM:199:GLY:C	2.13	1.20
9:CX:14:LEU:HD11	10:CY:14:ILE:CG2	1.71	1.20
8:Cq:10:PHE:CE2	10:Cs:10:HIS:CG	2.30	1.20
9:Cw:13:ARG:NH1	10:Cx:14:ILE:HG13	1.55	1.20
9:C1:14:LEU:HD11	10:C2:14:ILE:CG2	1.71	1.20
9:CS:13:ARG:NH1	10:CT:14:ILE:HG13	1.55	1.20
9:Cm:13:ARG:NH1	10:Cn:14:ILE:HG13	1.55	1.20
9:CD:14:LEU:HD11	10:CE:14:ILE:CG2	1.72	1.19
9:Cr:13:ARG:NH1	10:Cs:14:ILE:HG13	1.55	1.19
9:CI:14:LEU:HD11	10:CJ:14:ILE:CG2	1.71	1.19
9:Ch:14:LEU:HD11	10:Ci:14:ILE:CG2	1.72	1.19
9:Ch:17:ASN:OD1	10:Ci:17:LEU:HD13	1.36	1.19
9:Cm:14:LEU:HD11	10:Cn:14:ILE:CG2	1.71	1.19
9:CI:57:ILE:CD1	10:CJ:57:LEU:HD12	1.73	1.19
9:CN:13:ARG:NH1	10:CO:14:ILE:HG13	1.55	1.19
8:CR:10:PHE:CE2	10:CT:10:HIS:CG	2.30	1.19
9:Cm:57:ILE:CD1	10:Cn:57:LEU:HD12	1.73	1.19
8:CC:10:PHE:CE2	10:CE:10:HIS:CG	2.30	1.19
9:CD:17:ASN:OD1	10:CE:17:LEU:HD13	1.36	1.19
9:CD:57:ILE:CD1	10:CE:57:LEU:HD12	1.73	1.19
8:CH:10:PHE:CE2	10:CJ:10:HIS:CG	2.30	1.19
9:CN:17:ASN:OD1	10:CO:17:LEU:HD13	1.36	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CX:14:LEU:CD2	10:CY:14:ILE:CG2	2.12	1.19
8:Cg:10:PHE:CE2	10:Ci:10:HIS:CG	2.30	1.19
8:Cl:10:PHE:CE2	10:Cn:10:HIS:CG	2.30	1.19
8:Cv:10:PHE:CE2	10:Cx:10:HIS:CG	2.30	1.19
9:C1:14:LEU:CD2	10:C2:14:ILE:CG2	2.12	1.19
9:Ch:57:ILE:CD1	10:Ci:57:LEU:HD12	1.73	1.19
8:C0:10:PHE:CE2	10:C2:10:HIS:CG	2.30	1.18
8:CW:14:VAL:CG2	10:CY:13:ILE:CG2	2.00	1.18
8:C0:14:VAL:CG2	10:C2:13:ILE:CG2	2.00	1.18
9:CN:14:LEU:HD11	10:CO:14:ILE:CG2	1.71	1.18
8:CW:10:PHE:CE2	10:CY:10:HIS:CG	2.30	1.18
9:Cr:14:LEU:HD11	10:Cs:14:ILE:CG2	1.71	1.18
9:Cr:17:ASN:OD1	10:Cs:17:LEU:HD13	1.36	1.18
9:Cw:14:LEU:HD11	10:Cx:14:ILE:CG2	1.72	1.18
9:CN:57:ILE:CD1	10:CO:57:LEU:HD12	1.73	1.18
9:CS:14:LEU:HD11	10:CT:14:ILE:CG2	1.72	1.18
9:Cc:57:ILE:CD1	10:Cd:57:LEU:HD12	1.73	1.18
9:Cr:57:ILE:CD1	10:Cs:57:LEU:HD12	1.73	1.18
9:C6:57:ILE:CD1	10:C7:57:LEU:HD12	1.73	1.18
9:Ch:57:ILE:CG2	10:Ci:57:LEU:CD1	2.19	1.18
9:Cw:13:ARG:NH2	10:Cx:14:ILE:HD11	1.55	1.18
8:Cb:10:PHE:CE2	10:Cd:10:HIS:CG	2.30	1.18
8:C5:10:PHE:CE2	10:C7:10:HIS:CG	2.30	1.17
9:CD:57:ILE:CG2	10:CE:57:LEU:CD1	2.19	1.17
9:CS:13:ARG:NH2	10:CT:14:ILE:HD11	1.55	1.17
9:Cw:57:ILE:CD1	10:Cx:57:LEU:HD12	1.73	1.17
9:CS:57:ILE:CD1	10:CT:57:LEU:HD12	1.73	1.17
8:Cl:35:TYR:OH	10:Cn:34:LEU:CD2	1.79	1.17
9:C1:57:ILE:CD1	10:C2:57:LEU:HD12	1.73	1.17
9:C6:57:ILE:CG2	10:C7:57:LEU:CD1	2.19	1.17
9:CX:57:ILE:HD13	10:CY:57:LEU:HD12	1.17	1.17
9:C1:57:ILE:HD13	10:C2:57:LEU:HD12	1.17	1.17
9:CX:57:ILE:CD1	10:CY:57:LEU:HD12	1.73	1.17
9:Cc:57:ILE:CG2	10:Cd:57:LEU:CD1	2.19	1.17
9:CD:57:ILE:HD13	10:CE:57:LEU:HD12	1.17	1.16
8:CH:35:TYR:OH	10:CJ:34:LEU:CD2	1.79	1.16
8:CC:21:ILE:CB	10:CE:20:ARG:NH1	1.90	1.16
9:Ch:57:ILE:HD13	10:Ci:57:LEU:HD12	1.17	1.16
9:Ch:24:LEU:HD23	10:Ci:24:ILE:HG21	1.16	1.16
9:CD:24:LEU:HD23	10:CE:24:ILE:HG21	1.16	1.16
8:Cg:21:ILE:CB	10:Ci:20:ARG:NH1	1.90	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cw:14:LEU:CD2	10:Cx:14:ILE:CG2	2.12	1.16
9:CS:14:LEU:CD2	10:CT:14:ILE:CG2	2.12	1.15
9:Cc:14:LEU:CD2	10:Cd:14:ILE:CG2	2.12	1.15
9:C6:14:LEU:CD2	10:C7:14:ILE:CG2	2.12	1.15
9:CD:92:ALA:HB3	9:CD:95:GLU:HG2	1.28	1.15
8:Cb:21:ILE:CB	10:Cd:20:ARG:NH1	1.90	1.15
9:Cc:34:LYS:O	10:Cd:35:LEU:HD11	1.34	1.15
9:Ch:92:ALA:HB3	9:Ch:95:GLU:HG2	1.28	1.15
8:CH:14:VAL:HG11	10:CJ:13:ILE:HG23	1.16	1.15
9:Cc:13:ARG:NH2	10:Cd:14:ILE:HD11	1.55	1.15
8:Cq:14:VAL:HG11	10:Cs:13:ILE:HG23	1.16	1.15
8:C5:21:ILE:CB	10:C7:20:ARG:NH1	1.90	1.15
8:Cl:14:VAL:HG11	10:Cn:13:ILE:HG23	1.16	1.15
10:Cs:78:SER:HB3	10:Cs:81:PHE:HB2	1.29	1.15
9:C1:42:ASP:CA	10:C2:38:ARG:NH2	2.10	1.15
9:CI:34:LYS:O	10:CJ:35:LEU:HD11	1.34	1.15
8:CM:14:VAL:HG11	10:CO:13:ILE:HG23	1.16	1.15
9:CX:42:ASP:CA	10:CY:38:ARG:NH2	2.10	1.15
9:Cw:57:ILE:CG2	10:Cx:57:LEU:CD1	2.19	1.15
8:C0:35:TYR:OH	10:C2:34:LEU:CD2	1.79	1.14
9:C6:13:ARG:NH2	10:C7:14:ILE:HD11	1.55	1.14
9:C6:34:LYS:O	10:C7:35:LEU:HD11	1.34	1.14
9:CI:57:ILE:HD13	10:CJ:57:LEU:HD12	1.17	1.14
10:CO:78:SER:HB3	10:CO:81:PHE:HB2	1.29	1.14
9:CX:57:ILE:CG2	10:CY:57:LEU:CD1	2.19	1.14
9:Cw:57:ILE:HD13	10:Cx:57:LEU:HD12	1.17	1.14
9:CD:27:ILE:HG22	10:CE:28:ILE:HD13	1.15	1.14
8:CH:21:ILE:CB	10:CJ:20:ARG:NH1	1.90	1.14
9:CS:57:ILE:CG2	10:CT:57:LEU:CD1	2.19	1.14
9:CS:57:ILE:HD13	10:CT:57:LEU:HD12	1.17	1.14
9:Ch:27:ILE:HG22	10:CI:28:ILE:HD13	1.15	1.14
9:Cm:34:LYS:O	10:Cn:35:LEU:HD11	1.34	1.14
9:Cw:42:ASP:CA	10:Cx:38:ARG:NH2	2.10	1.14
9:CS:42:ASP:CA	10:CT:38:ARG:NH2	2.10	1.14
8:CW:21:ILE:CB	10:CY:20:ARG:NH1	1.90	1.14
9:C6:42:ASP:CA	10:C7:38:ARG:NH2	2.10	1.14
8:CW:35:TYR:OH	10:CY:34:LEU:CD2	1.79	1.14
9:Cc:42:ASP:CA	10:Cd:38:ARG:NH2	2.10	1.14
9:Cm:57:ILE:HD13	10:Cn:57:LEU:HD12	1.17	1.14
8:C0:21:ILE:CB	10:C2:20:ARG:NH1	1.90	1.14
10:CJ:78:SER:HB3	10:CJ:81:PHE:HB2	1.29	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cl:21:ILE:CB	10:Cn:20:ARG:NH1	1.90	1.14
8:C0:11:GLN:HA	10:C2:13:ILE:HD11	1.14	1.13
9:C6:57:ILE:HD13	10:C7:57:LEU:HD12	1.17	1.13
9:CD:42:ASP:CA	10:CE:38:ARG:NH2	2.10	1.13
9:Cr:42:ASP:CA	10:Cs:38:ARG:NH2	2.10	1.13
3:A7:102:ILE:HD11	3:A7:149:ASP:HB3	1.16	1.13
3:Ad:102:ILE:HD11	3:Ad:149:ASP:HB3	1.16	1.13
9:C6:177:ARG:HB3	9:C6:197:PHE:HB2	1.28	1.13
9:CN:42:ASP:CA	10:CO:38:ARG:NH2	2.10	1.13
8:CW:11:GLN:HA	10:CY:13:ILE:HD11	1.14	1.13
9:Cc:24:LEU:HD23	10:Cd:24:ILE:HG21	1.16	1.13
9:Cc:92:ALA:HB3	9:Cc:95:GLU:HG2	1.28	1.13
9:Ch:42:ASP:CA	10:Ci:38:ARG:NH2	2.10	1.13
9:Cm:57:ILE:CG2	10:Cn:57:LEU:CD1	2.19	1.13
10:Cn:78:SER:HB3	10:Cn:81:PHE:HB2	1.29	1.13
9:Cr:57:ILE:HD13	10:Cs:57:LEU:HD12	1.17	1.13
9:C6:24:LEU:HD23	10:C7:24:ILE:HG21	1.16	1.13
8:CC:11:GLN:HA	10:CE:13:ILE:HD11	1.14	1.13
9:CN:38:ALA:CB	10:CO:35:LEU:CD1	2.00	1.13
8:CR:14:VAL:CG1	10:CT:13:ILE:HG23	1.79	1.13
8:Cl:11:GLN:HA	10:Cn:13:ILE:HD11	1.14	1.13
9:Cm:24:LEU:HD23	10:Cn:24:ILE:HG21	1.16	1.13
9:C6:92:ALA:HB3	9:C6:95:GLU:HG2	1.28	1.13
8:CH:11:GLN:HA	10:CJ:13:ILE:HD11	1.14	1.13
9:CI:42:ASP:CA	10:CJ:38:ARG:NH2	2.10	1.13
9:CN:57:ILE:HD13	10:CO:57:LEU:HD12	1.17	1.13
8:Cb:14:VAL:CG1	10:Cd:13:ILE:HG23	1.79	1.13
9:Cc:57:ILE:HD13	10:Cd:57:LEU:HD12	1.17	1.13
9:Cc:177:ARG:HB3	9:Cc:197:PHE:HB2	1.28	1.13
8:Cg:11:GLN:HA	10:Ci:13:ILE:HD11	1.14	1.13
8:Cv:14:VAL:CG1	10:Cx:13:ILE:HG23	1.79	1.13
8:C5:14:VAL:CG1	10:C7:13:ILE:HG23	1.79	1.13
9:CI:57:ILE:CG2	10:CJ:57:LEU:CD1	2.19	1.13
9:CI:24:LEU:HD23	10:CJ:24:ILE:HG21	1.16	1.12
9:CN:27:ILE:HG22	10:CO:28:ILE:HD13	1.15	1.12
9:Cm:42:ASP:CA	10:Cn:38:ARG:NH2	2.10	1.13
8:CW:56:ASN:CA	8:CW:199:GLY:HA3	1.79	1.12
8:C0:14:VAL:CG1	10:C2:13:ILE:HG23	1.79	1.12
8:CC:14:VAL:CG1	10:CE:13:ILE:HG23	1.79	1.12
8:Cg:14:VAL:CG1	10:Ci:13:ILE:HG23	1.79	1.12
9:Cr:27:ILE:HG22	10:Cs:28:ILE:HD13	1.15	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:38:ALA:CB	10:Cs:35:LEU:CD1	2.00	1.12
8:C0:56:ASN:CA	8:C0:199:GLY:HA3	1.79	1.12
9:C1:13:ARG:HH12	10:C2:14:ILE:CG1	1.63	1.12
8:C5:56:ASN:CA	8:C5:199:GLY:HA3	1.79	1.12
9:CD:34:LYS:O	10:CE:35:LEU:HD11	1.34	1.12
9:CN:13:ARG:HH12	10:CO:14:ILE:CG1	1.63	1.12
8:CW:14:VAL:CG1	10:CY:13:ILE:HG23	1.79	1.12
9:CX:13:ARG:HH12	10:CY:14:ILE:CG1	1.63	1.12
8:Cb:11:GLN:HA	10:Cd:13:ILE:HD11	1.14	1.12
8:Cb:56:ASN:CA	8:Cb:199:GLY:HA3	1.79	1.12
8:Cl:21:ILE:HB	10:Cn:20:ARG:NH1	1.37	1.12
7:Co:9:GLU:HG3	9:Cr:119:GLY:HA3	1.32	1.12
9:Cr:13:ARG:HH12	10:Cs:14:ILE:CG1	1.63	1.12
8:CM:56:ASN:CA	8:CM:199:GLY:HA3	1.79	1.12
8:CR:11:GLN:HA	10:CT:13:ILE:HD11	1.14	1.12
8:Cq:56:ASN:CA	8:Cq:199:GLY:HA3	1.79	1.12
8:Cv:11:GLN:HA	10:Cx:13:ILE:HD11	1.14	1.12
10:Cx:78:SER:HB3	10:Cx:81:PHE:HB2	1.29	1.12
9:C1:177:ARG:HB3	9:C1:197:PHE:HB2	1.28	1.12
8:C5:11:GLN:HA	10:C7:13:ILE:HD11	1.14	1.12
7:CK:9:GLU:HG3	9:CN:119:GLY:HA3	1.32	1.12
8:CR:18:ASN:HB3	10:CT:16:LYS:HZ2	1.08	1.12
9:CX:177:ARG:HB3	9:CX:197:PHE:HB2	1.28	1.12
8:Cg:35:TYR:OH	10:Cl:34:LEU:CD2	1.79	1.12
8:Cv:56:ASN:CA	8:Cv:199:GLY:HA3	1.79	1.12
8:CM:11:GLN:HA	10:CO:13:ILE:HD11	1.14	1.11
7:CP:9:GLU:HG3	9:CS:119:GLY:HA3	1.32	1.11
8:CR:56:ASN:CA	8:CR:199:GLY:HA3	1.79	1.11
9:Ch:34:LYS:O	10:Cl:35:LEU:HD11	1.34	1.11
9:Cm:92:ALA:HB3	9:Cm:95:GLU:HG2	1.28	1.11
8:Cv:18:ASN:HB3	10:Cx:16:LYS:HZ2	1.08	1.11
8:C5:56:ASN:HB2	8:C5:199:GLY:CA	1.81	1.11
8:CC:35:TYR:OH	10:CE:34:LEU:CD2	1.79	1.11
8:CH:21:ILE:HB	10:CJ:20:ARG:NH1	1.37	1.11
8:CH:56:ASN:CA	8:CH:199:GLY:HA3	1.79	1.11
9:CI:92:ALA:HB3	9:CI:95:GLU:HG2	1.28	1.11
10:CT:78:SER:HB3	10:CT:81:PHE:HB2	1.29	1.11
7:CU:9:GLU:HG3	9:CX:119:GLY:HA3	1.32	1.11
8:Cb:56:ASN:HB2	8:Cb:199:GLY:CA	1.81	1.11
7:Cj:9:GLU:HG3	9:Cm:119:GLY:HA3	1.32	1.11
7:Ct:9:GLU:HG3	9:Cw:119:GLY:HA3	1.32	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C5:14:VAL:HG11	10:C7:13:ILE:HG23	1.16	1.11
8:CC:24:LEU:HB3	10:CE:24:ILE:HD12	1.32	1.11
9:CD:13:ARG:HH12	10:CE:14:ILE:CG1	1.63	1.11
7:CF:9:GLU:HG3	9:CI:119:GLY:HA3	1.32	1.11
9:CS:24:LEU:CD2	10:CT:24:ILE:CG2	2.29	1.11
8:Cg:24:LEU:HB3	10:CI:24:ILE:HD12	1.32	1.11
9:Ch:13:ARG:HH12	10:CI:14:ILE:CG1	1.63	1.11
8:Cl:56:ASN:CA	8:Cl:199:GLY:HA3	1.79	1.11
8:Cq:11:GLN:HA	10:Cs:13:ILE:HD11	1.14	1.11
9:Cw:24:LEU:CD2	10:Cx:24:ILE:CG2	2.29	1.11
9:C1:119:GLY:HA3	7:Cy:9:GLU:HG3	1.32	1.11
8:C5:21:ILE:HB	10:C7:20:ARG:NH1	1.37	1.11
9:C6:14:LEU:CD1	10:C7:14:ILE:CG2	2.28	1.11
9:CD:14:LEU:CD1	10:CE:14:ILE:CG2	2.28	1.11
9:CN:24:LEU:CD2	10:CO:24:ILE:CG2	2.29	1.11
8:CW:14:VAL:HG11	10:CY:13:ILE:HG23	1.16	1.11
9:Ch:14:LEU:CD1	10:CI:14:ILE:CG2	2.28	1.11
8:Cl:24:LEU:HB3	10:Cn:24:ILE:HD12	1.32	1.11
3:AO:102:ILE:HD11	3:AO:149:ASP:HB3	1.16	1.11
3:As:102:ILE:HD11	3:As:149:ASP:HB3	1.16	1.11
8:C0:14:VAL:HG11	10:C2:13:ILE:HG23	1.16	1.11
8:CC:56:ASN:HB2	8:CC:199:GLY:CA	1.81	1.11
8:CM:14:VAL:CG1	10:CO:13:ILE:HG23	1.79	1.11
9:CS:34:LYS:O	10:CT:35:LEU:HD11	1.34	1.11
7:CZ:9:GLU:HG3	9:Cc:119:GLY:HA3	1.32	1.11
8:Cb:14:VAL:HG11	10:Cd:13:ILE:HG23	1.16	1.11
9:Cc:14:LEU:CD1	10:Cd:14:ILE:CG2	2.28	1.11
9:Cr:24:LEU:CD2	10:Cs:24:ILE:CG2	2.29	1.11
9:C6:13:ARG:HH12	10:C7:14:ILE:CG1	1.63	1.10
10:C7:78:SER:HB3	10:C7:81:PHE:HB2	1.29	1.10
8:CC:56:ASN:CA	8:CC:199:GLY:HA3	1.79	1.10
9:CD:27:ILE:CG2	10:CE:28:ILE:HG21	1.81	1.10
8:CH:14:VAL:CG1	10:CJ:13:ILE:HG23	1.79	1.10
8:CH:24:LEU:HB3	10:CJ:24:ILE:HD12	1.32	1.10
9:CI:13:ARG:NH2	10:CJ:14:ILE:HD11	1.55	1.10
9:CI:42:ASP:OD1	10:CJ:38:ARG:NH1	1.84	1.10
10:CJ:57:LEU:C	10:CJ:58:GLU:HG3	1.73	1.10
9:CN:177:ARG:HB3	9:CN:197:PHE:HB2	1.28	1.10
8:CR:101:SER:HB2	8:CR:104:ILE:HG13	1.33	1.10
10:Cd:78:SER:HB3	10:Cd:81:PHE:HB2	1.29	1.10
8:Cg:56:ASN:HB2	8:Cg:199:GLY:CA	1.81	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:56:ASN:CA	8:Cg:199:GLY:HA3	1.79	1.10
9:Ch:24:LEU:CD2	10:Ci:24:ILE:CG2	2.29	1.10
9:Ch:27:ILE:CG2	10:Ci:28:ILE:HG21	1.81	1.10
8:Cl:14:VAL:CG1	10:Cn:13:ILE:HG23	1.79	1.10
9:Cm:42:ASP:OD1	10:Cn:38:ARG:NH1	1.84	1.10
10:Cn:57:LEU:C	10:Cn:58:GLU:HG3	1.73	1.10
8:Cq:14:VAL:CG1	10:Cs:13:ILE:HG23	1.79	1.10
9:Cr:177:ARG:HB3	9:Cr:197:PHE:HB2	1.28	1.10
8:Cv:101:SER:HB2	8:Cv:104:ILE:HG13	1.33	1.10
3:AJ:102:ILE:HD11	3:AJ:149:ASP:HB3	1.16	1.10
8:C0:24:LEU:HB3	10:C2:24:ILE:HD12	1.32	1.10
9:C1:13:ARG:NH2	10:C2:14:ILE:HD11	1.55	1.10
7:C3:9:GLU:HG3	9:C6:119:GLY:HA3	1.32	1.10
7:CA:9:GLU:HG3	9:CD:119:GLY:HA3	1.32	1.10
9:CD:24:LEU:CD2	10:CE:24:ILE:CG2	2.29	1.10
9:CI:38:ALA:CB	10:CJ:35:LEU:CD1	2.00	1.10
10:CO:82:VAL:HG12	10:CO:94:ASP:HB3	1.34	1.10
8:CR:56:ASN:HB2	8:CR:199:GLY:CA	1.81	1.10
9:CX:24:LEU:HD23	10:CY:24:ILE:HG21	1.16	1.10
8:Cb:21:ILE:HB	10:Cd:20:ARG:NH1	1.37	1.10
8:Cb:24:LEU:HB3	10:Cd:24:ILE:HD12	1.32	1.10
9:Cc:13:ARG:HH12	10:Cd:14:ILE:CG1	1.63	1.10
9:Cc:27:ILE:CG2	10:Cd:28:ILE:HG21	1.81	1.10
9:Cm:13:ARG:NH2	10:Cn:14:ILE:HD11	1.55	1.10
8:Cq:18:ASN:HB3	10:Cs:16:LYS:HZ2	1.08	1.10
10:Cs:82:VAL:HG12	10:Cs:94:ASP:HB3	1.34	1.10
8:Cv:56:ASN:HB2	8:Cv:199:GLY:CA	1.81	1.10
3:An:102:ILE:HD11	3:An:149:ASP:HB3	1.16	1.10
8:C5:21:ILE:HD13	10:C7:20:ARG:HB3	1.33	1.10
9:C6:27:ILE:CG2	10:C7:28:ILE:HG21	1.81	1.10
9:CI:27:ILE:CG2	10:CJ:28:ILE:HG21	1.81	1.10
8:CM:56:ASN:HB2	8:CM:199:GLY:CA	1.81	1.10
9:CS:13:ARG:HH12	10:CT:14:ILE:CG1	1.63	1.10
8:CW:24:LEU:HB3	10:CY:24:ILE:HD12	1.32	1.10
7:Ce:9:GLU:HG3	9:Ch:119:GLY:HA3	1.32	1.10
8:Cg:101:SER:HB2	8:Cg:104:ILE:HG13	1.33	1.10
8:Cl:56:ASN:HB2	8:Cl:199:GLY:CA	1.81	1.10
9:Cm:27:ILE:CG2	10:Cn:28:ILE:HG21	1.81	1.10
9:Cr:57:ILE:HG21	10:Cs:57:LEU:HD12	1.30	1.10
9:Cw:13:ARG:HH12	10:Cx:14:ILE:CG1	1.63	1.10
9:C1:24:LEU:CD2	10:C2:24:ILE:CG2	2.29	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C5:24:LEU:HB3	10:C7:24:ILE:HD12	1.32	1.10
8:CC:101:SER:HB2	8:CC:104:ILE:HG13	1.33	1.10
9:CD:42:ASP:OD1	10:CE:38:ARG:NH1	1.85	1.10
8:CH:56:ASN:HB2	8:CH:199:GLY:CA	1.81	1.10
9:CI:14:LEU:HG	10:CJ:14:ILE:HG22	1.28	1.10
8:CM:18:ASN:HB3	10:CO:16:LYS:HZ2	1.08	1.10
9:CN:57:ILE:HG21	10:CO:57:LEU:HD12	1.30	1.10
10:CT:57:LEU:C	10:CT:58:GLU:HG3	1.73	1.10
9:CX:24:LEU:CD2	10:CY:24:ILE:CG2	2.29	1.10
8:Cb:21:ILE:HD13	10:Cd:20:ARG:HB3	1.33	1.10
9:Ch:42:ASP:OD1	10:CI:38:ARG:NH1	1.85	1.10
8:Cq:56:ASN:HB2	8:Cq:199:GLY:CA	1.81	1.10
9:C1:24:LEU:HD23	10:C2:24:ILE:HG21	1.16	1.10
9:C6:24:LEU:CD2	10:C7:24:ILE:CG2	2.29	1.10
8:CC:14:VAL:HG11	10:CE:13:ILE:HG23	1.16	1.10
9:CI:13:ARG:HH12	10:CJ:14:ILE:CG1	1.63	1.10
9:CI:24:LEU:CD2	10:CJ:24:ILE:CG2	2.29	1.10
8:CM:24:LEU:HB3	10:CO:24:ILE:HD12	1.32	1.10
9:CX:27:ILE:CG2	10:CY:28:ILE:HG21	1.81	1.10
9:Cm:24:LEU:CD2	10:Cn:24:ILE:CG2	2.29	1.10
9:Cm:27:ILE:HG22	10:Cn:28:ILE:HD13	1.15	1.10
8:Cq:101:SER:HB2	8:Cq:104:ILE:HG13	1.33	1.10
9:C1:27:ILE:CG2	10:C2:28:ILE:HG21	1.81	1.09
10:C7:57:LEU:C	10:C7:58:GLU:HG3	1.73	1.09
8:CM:101:SER:HB2	8:CM:104:ILE:HG13	1.33	1.09
9:CX:13:ARG:NH2	10:CY:14:ILE:HD11	1.55	1.09
9:Cc:24:LEU:CD2	10:Cd:24:ILE:CG2	2.29	1.09
10:Cd:57:LEU:C	10:Cd:58:GLU:HG3	1.73	1.09
9:Cm:13:ARG:HH12	10:Cn:14:ILE:CG1	1.63	1.09
9:Cm:38:ALA:CB	10:Cn:35:LEU:CD1	2.00	1.09
8:Cq:24:LEU:HB3	10:Cs:24:ILE:HD12	1.32	1.09
3:Ax:102:ILE:HD11	3:Ax:149:ASP:HB3	1.16	1.09
9:C1:57:ILE:CG2	10:C2:57:LEU:CD1	2.19	1.09
10:C2:57:LEU:C	10:C2:58:GLU:HG3	1.73	1.09
9:CN:42:ASP:OD1	10:CO:38:ARG:NH1	1.85	1.09
8:CR:24:LEU:HB3	10:CT:24:ILE:HD12	1.32	1.09
9:CS:24:LEU:HD23	10:CT:24:ILE:HG21	1.16	1.09
9:Cm:14:LEU:HG	10:Cn:14:ILE:HG22	1.28	1.09
9:Cr:24:LEU:HD23	10:Cs:24:ILE:HG21	1.16	1.09
9:Cr:27:ILE:CG2	10:Cs:28:ILE:HG21	1.81	1.09
8:Cv:24:LEU:HB3	10:Cx:24:ILE:HD12	1.32	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AT:102:ILE:HD11	3:AT:149:ASP:HB3	1.16	1.09
8:C0:56:ASN:HB2	8:C0:199:GLY:CA	1.81	1.09
9:C1:57:ILE:HG21	10:C2:57:LEU:HD12	1.30	1.09
9:CI:27:ILE:HG22	10:CJ:28:ILE:HD13	1.15	1.09
9:CN:14:LEU:HG	10:CO:14:ILE:HG22	1.28	1.09
9:CN:27:ILE:CG2	10:CO:28:ILE:HG21	1.81	1.09
9:CS:27:ILE:CG2	10:CT:28:ILE:HG21	1.81	1.09
8:CW:101:SER:HB2	8:CW:104:ILE:HG13	1.33	1.09
9:CX:57:ILE:HG21	10:CY:57:LEU:HD12	1.30	1.09
8:Cb:101:SER:HB2	8:Cb:104:ILE:HG13	1.33	1.09
8:Cg:14:VAL:HG11	10:CI:13:ILE:HG23	1.16	1.09
9:Cr:42:ASP:OD1	10:Cs:38:ARG:NH1	1.85	1.09
10:Cx:57:LEU:C	10:Cx:58:GLU:HG3	1.73	1.09
8:C0:101:SER:HB2	8:C0:104:ILE:HG13	1.33	1.09
9:C1:92:ALA:HB3	9:C1:95:GLU:HG2	1.28	1.09
9:CD:14:LEU:HG	10:CE:14:ILE:HG22	1.28	1.09
8:CH:101:SER:HB2	8:CH:104:ILE:HG13	1.33	1.09
8:CM:21:ILE:CB	10:CO:20:ARG:NH1	1.90	1.09
8:CW:56:ASN:HB2	8:CW:199:GLY:CA	1.81	1.09
8:Cq:21:ILE:HB	10:Cs:20:ARG:NH1	1.37	1.09
8:Cv:14:VAL:HG11	10:Cx:13:ILE:HG23	1.16	1.09
9:Cw:27:ILE:HG22	10:Cx:28:ILE:HD13	1.15	1.09
10:Cx:82:VAL:HG12	10:Cx:94:ASP:HB3	1.34	1.09
8:C5:101:SER:HB2	8:C5:104:ILE:HG13	1.33	1.09
9:CN:24:LEU:HD23	10:CO:24:ILE:HG21	1.16	1.09
9:CN:34:LYS:O	10:CO:35:LEU:HD11	1.34	1.09
9:CS:27:ILE:HG22	10:CT:28:ILE:HD13	1.15	1.09
9:CX:92:ALA:HB3	9:CX:95:GLU:HG2	1.28	1.09
10:CY:78:SER:HB3	10:CY:81:PHE:HB2	1.29	1.09
9:Ch:14:LEU:HG	10:CI:14:ILE:HG22	1.28	1.09
8:Cl:101:SER:HB2	8:Cl:104:ILE:HG13	1.33	1.09
9:Cw:24:LEU:HD23	10:Cx:24:ILE:HG21	1.16	1.09
9:Cw:27:ILE:CG2	10:Cx:28:ILE:HG21	1.81	1.09
10:CJ:82:VAL:HG12	10:CJ:94:ASP:HB3	1.34	1.08
9:CN:92:ALA:HB3	9:CN:95:GLU:HG2	1.28	1.08
10:CT:82:VAL:HG12	10:CT:94:ASP:HB3	1.34	1.08
8:C0:18:ASN:HB3	10:C2:16:LYS:NZ	1.69	1.08
9:C6:57:ILE:HG21	10:C7:57:LEU:HD12	1.30	1.08
9:CD:13:ARG:NH2	10:CE:14:ILE:HD11	1.55	1.08
8:CH:18:ASN:HB3	10:CJ:16:LYS:NZ	1.69	1.08
8:CW:18:ASN:HB3	10:CY:16:LYS:NZ	1.69	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cn:82:VAL:HG12	10:Cn:94:ASP:HB3	1.34	1.08
8:Cq:21:ILE:CB	10:Cs:20:ARG:NH1	1.90	1.08
9:Cr:14:LEU:HG	10:Cs:14:ILE:HG22	1.28	1.08
9:Cr:92:ALA:HB3	9:Cr:95:GLU:HG2	1.28	1.08
10:C2:78:SER:HB3	10:C2:81:PHE:HB2	1.29	1.08
9:C6:42:ASP:OD1	10:C7:38:ARG:NH1	1.85	1.08
8:CR:14:VAL:HG11	10:CT:13:ILE:HG23	1.16	1.08
9:CS:38:ALA:CB	10:CT:35:LEU:CD1	2.00	1.08
9:CS:57:ILE:HG21	10:CT:57:LEU:HD12	1.30	1.08
10:CY:57:LEU:C	10:CY:58:GLU:HG3	1.73	1.08
8:Cg:21:ILE:HD13	10:Ci:20:ARG:HB3	1.33	1.08
9:Ch:13:ARG:NH2	10:Ci:14:ILE:HD11	1.55	1.08
8:Cl:18:ASN:HB3	10:Cn:16:LYS:NZ	1.69	1.08
9:Cr:34:LYS:O	10:Cs:35:LEU:HD11	1.34	1.08
9:Cw:177:ARG:HB3	9:Cw:197:PHE:HB2	1.28	1.08
8:C0:18:ASN:O	10:C2:20:ARG:NH1	1.87	1.08
9:C1:14:LEU:HG	10:C2:14:ILE:HG22	1.28	1.08
9:C1:42:ASP:OD1	10:C2:38:ARG:NH1	1.84	1.08
9:C6:14:LEU:HG	10:C7:14:ILE:HG22	1.28	1.08
8:CM:21:ILE:HB	10:CO:20:ARG:NH1	1.37	1.08
9:CN:13:ARG:NH2	10:CO:14:ILE:HD11	1.55	1.08
9:CS:177:ARG:HB3	9:CS:197:PHE:HB2	1.28	1.08
8:CW:18:ASN:O	10:CY:20:ARG:NH1	1.87	1.08
9:CX:20:LEU:HD22	10:CY:21:THR:HG21	1.35	1.08
9:CX:42:ASP:OD1	10:CY:38:ARG:NH1	1.84	1.08
9:Cc:42:ASP:OD1	10:Cd:38:ARG:NH1	1.85	1.08
9:Cc:57:ILE:HG21	10:Cd:57:LEU:HD12	1.30	1.08
9:Cw:42:ASP:OD1	10:Cx:38:ARG:NH1	1.85	1.08
9:Cw:57:ILE:HG21	10:Cx:57:LEU:HD12	1.30	1.08
9:C1:20:LEU:HD22	10:C2:21:THR:HG21	1.35	1.08
8:Cb:18:ASN:HB3	10:Cd:16:LYS:HZ2	1.08	1.08
9:Cc:14:LEU:HG	10:Cd:14:ILE:HG22	1.28	1.08
9:Cc:20:LEU:HD22	10:Cd:21:THR:HG21	1.35	1.08
3:AY:102:ILE:HD11	3:AY:149:ASP:HB3	1.16	1.07
8:CC:21:ILE:HD13	10:CE:20:ARG:HB3	1.33	1.07
8:CH:18:ASN:HB3	10:CJ:16:LYS:HZ2	1.08	1.07
9:CS:42:ASP:OD1	10:CT:38:ARG:NH1	1.85	1.07
8:CW:21:ILE:HD13	10:CY:20:ARG:HB3	1.33	1.07
9:Cc:27:ILE:HG22	10:Cd:28:ILE:HD13	1.15	1.07
9:Ch:46:PHE:CE1	10:CI:47:ALA:CB	2.21	1.07
9:Cw:38:ALA:CB	10:Cx:35:LEU:CD1	2.00	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:102:ILE:HD11	3:A2:149:ASP:HB3	1.16	1.07
9:C6:20:LEU:HD22	10:C7:21:THR:HG21	1.35	1.07
9:CD:38:ALA:CB	10:CE:35:LEU:CD1	2.00	1.07
9:CS:14:LEU:HG	10:CT:14:ILE:HG22	1.28	1.07
9:CX:14:LEU:CD1	10:CY:14:ILE:CG2	2.28	1.07
9:CX:14:LEU:HG	10:CY:14:ILE:HG22	1.28	1.07
8:Cq:18:ASN:HB3	10:Cs:16:LYS:NZ	1.69	1.07
9:Cr:13:ARG:NH2	10:Cs:14:ILE:HD11	1.55	1.07
8:C0:21:ILE:HD13	10:C2:20:ARG:HB3	1.33	1.07
8:C5:18:ASN:HB3	10:C7:16:LYS:NZ	1.69	1.07
9:C6:14:LEU:HD11	10:C7:14:ILE:HG22	1.29	1.07
9:C6:27:ILE:HG22	10:C7:28:ILE:HD13	1.15	1.07
9:CD:46:PHE:CE1	10:CE:47:ALA:CB	2.21	1.07
8:CM:18:ASN:HB3	10:CO:16:LYS:NZ	1.69	1.07
9:CS:17:ASN:CG	10:CT:17:LEU:CD1	2.27	1.07
9:Cc:14:LEU:HD11	10:Cd:14:ILE:HG22	1.29	1.07
9:Cw:14:LEU:HG	10:Cx:14:ILE:HG22	1.28	1.07
9:Cw:17:ASN:CG	10:Cx:17:LEU:CD1	2.27	1.07
4:Bi:76:ILE:HA	4:Bi:79:LEU:HD23	1.37	1.07
9:C1:14:LEU:CD1	10:C2:14:ILE:CG2	2.28	1.07
8:C5:18:ASN:HB3	10:C7:16:LYS:HZ2	1.08	1.07
8:C5:35:TYR:OH	10:C7:34:LEU:CD2	1.80	1.07
9:CI:177:ARG:HB3	9:CI:197:PHE:HB2	1.28	1.07
9:CN:17:ASN:CG	10:CO:17:LEU:CD1	2.27	1.07
10:CO:57:LEU:C	10:CO:58:GLU:HG3	1.73	1.07
8:Cb:18:ASN:HB3	10:Cd:16:LYS:NZ	1.69	1.07
9:Cr:17:ASN:CG	10:Cs:17:LEU:CD1	2.27	1.07
9:Cr:57:ILE:HD11	10:Cs:54:VAL:HG13	1.36	1.07
10:Cs:57:LEU:C	10:Cs:58:GLU:HG3	1.73	1.07
3:Ai:102:ILE:HD11	3:Ai:149:ASP:HB3	1.16	1.07
4:BE:76:ILE:HA	4:BE:79:LEU:HD23	1.37	1.07
4:BO:76:ILE:HA	4:BO:79:LEU:HD23	1.37	1.07
4:Bs:76:ILE:HA	4:Bs:79:LEU:HD23	1.37	1.07
9:C1:27:ILE:HG22	10:C2:28:ILE:HD13	1.15	1.07
9:C6:17:ASN:CG	10:C7:17:LEU:CD1	2.27	1.07
9:CD:17:ASN:CG	10:CE:17:LEU:CD1	2.27	1.07
9:CN:28:ILE:HD12	10:CO:28:ILE:HG12	1.37	1.07
9:CN:57:ILE:HD11	10:CO:54:VAL:HG13	1.36	1.07
8:CR:18:ASN:HB3	10:CT:16:LYS:NZ	1.69	1.07
8:CR:18:ASN:O	10:CT:20:ARG:NH1	1.87	1.07
9:CS:57:ILE:HD11	10:CT:54:VAL:HG13	1.36	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cc:17:ASN:CG	10:Cd:17:LEU:CD1	2.27	1.07
10:Cd:82:VAL:HG12	10:Cd:94:ASP:HB3	1.34	1.07
9:Ch:17:ASN:CG	10:Ci:17:LEU:CD1	2.27	1.07
9:Ch:38:ALA:CB	10:Ci:35:LEU:CD1	2.00	1.07
9:Cm:177:ARG:HB3	9:Cm:197:PHE:HB2	1.28	1.07
8:Cv:18:ASN:O	10:Cx:20:ARG:NH1	1.87	1.07
9:Cw:92:ALA:HB3	9:Cw:95:GLU:HG2	1.28	1.07
8:C5:18:ASN:O	10:C7:20:ARG:NH1	1.87	1.06
10:C7:82:VAL:HG12	10:C7:94:ASP:HB3	1.34	1.06
8:CC:18:ASN:HB3	10:CE:16:LYS:NZ	1.69	1.06
9:CS:92:ALA:HB3	9:CS:95:GLU:HG2	1.28	1.06
9:CX:27:ILE:HG22	10:CY:28:ILE:HD13	1.15	1.06
8:Cb:18:ASN:O	10:Cd:20:ARG:NH1	1.87	1.06
8:Cg:18:ASN:O	10:Ci:20:ARG:NH1	1.87	1.06
9:Cr:28:ILE:HD12	10:Cs:28:ILE:HG12	1.37	1.06
8:Cv:18:ASN:HB3	10:Cx:16:LYS:NZ	1.69	1.06
3:AE:102:ILE:HD11	3:AE:149:ASP:HB3	1.16	1.06
9:C1:17:ASN:CG	10:C2:17:LEU:CD1	2.27	1.06
8:CC:18:ASN:O	10:CE:20:ARG:NH1	1.87	1.06
9:CX:17:ASN:CG	10:CY:17:LEU:CD1	2.27	1.06
8:Cg:18:ASN:HB3	10:Ci:16:LYS:NZ	1.69	1.06
8:Cl:18:ASN:O	10:Cn:20:ARG:NH1	1.87	1.06
9:Cw:28:ILE:HD12	10:Cx:28:ILE:HG12	1.37	1.06
9:Cw:57:ILE:HD11	10:Cx:54:VAL:HG13	1.36	1.06
8:CH:18:ASN:O	10:CJ:20:ARG:NH1	1.87	1.06
8:CM:18:ASN:O	10:CO:20:ARG:NH1	1.87	1.06
9:CS:28:ILE:HD12	10:CT:28:ILE:HG12	1.37	1.06
8:Cb:35:TYR:OH	10:Cd:34:LEU:CD2	1.80	1.06
9:Ch:177:ARG:HB3	9:Ch:197:PHE:HB2	1.28	1.06
8:Cl:18:ASN:HB3	10:Cn:16:LYS:HZ2	1.09	1.06
4:Bd:76:ILE:HA	4:Bd:79:LEU:HD23	1.37	1.06
8:C5:56:ASN:CB	8:C5:199:GLY:CA	2.34	1.06
9:CD:177:ARG:HB3	9:CD:197:PHE:HB2	1.28	1.06
8:Cb:56:ASN:CB	8:Cb:199:GLY:CA	2.34	1.06
10:Ci:78:SER:HB3	10:Ci:81:PHE:HB2	1.29	1.06
8:Cv:35:TYR:OH	10:Cx:34:LEU:CD2	1.79	1.06
4:B7:76:ILE:HA	4:B7:79:LEU:HD23	1.37	1.06
8:C0:56:ASN:CB	8:C0:199:GLY:CA	2.34	1.06
9:C1:57:ILE:HD11	10:C2:54:VAL:HG13	1.36	1.06
9:CD:53:ARG:HG3	10:CE:54:VAL:HG11	1.37	1.06
8:CH:56:ASN:CB	8:CH:199:GLY:CA	2.34	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CS:20:LEU:HD22	10:CT:21:THR:HG21	1.35	1.06
8:CW:56:ASN:CB	8:CW:199:GLY:CA	2.34	1.06
9:CX:57:ILE:HD11	10:CY:54:VAL:HG13	1.36	1.06
8:CI:56:ASN:CB	8:CI:199:GLY:CA	2.34	1.06
9:Cm:57:ILE:HG21	10:Cn:57:LEU:HD12	1.30	1.06
8:Cq:18:ASN:O	10:Cs:20:ARG:NH1	1.87	1.06
9:Cw:20:LEU:HD22	10:Cx:21:THR:HG21	1.35	1.06
9:C6:28:ILE:HD12	10:C7:28:ILE:HG12	1.37	1.05
10:CE:57:LEU:C	10:CE:58:GLU:HG3	1.73	1.05
8:CM:56:ASN:CB	8:CM:199:GLY:CA	2.34	1.05
9:Cc:28:ILE:HD12	10:Cd:28:ILE:HG12	1.37	1.05
10:Ci:57:LEU:C	10:Ci:58:GLU:HG3	1.73	1.05
8:Cq:56:ASN:CB	8:Cq:199:GLY:CA	2.34	1.05
9:Cr:57:ILE:CG2	10:Cs:57:LEU:CD1	2.19	1.05
10:CE:78:SER:HB3	10:CE:81:PHE:HB2	1.29	1.05
9:CI:17:ASN:CG	10:CJ:17:LEU:CD1	2.27	1.05
9:Ch:14:LEU:HD11	10:Ci:14:ILE:HG22	1.29	1.05
9:Ch:53:ARG:HG3	10:Ci:54:VAL:HG11	1.37	1.05
9:CD:20:LEU:HD22	10:CE:21:THR:HG21	1.35	1.05
9:CI:57:ILE:HG21	10:CJ:57:LEU:HD12	1.30	1.05
9:Cm:17:ASN:CG	10:Cn:17:LEU:CD1	2.27	1.05
8:Cv:56:ASN:CB	8:Cv:199:GLY:CA	2.34	1.05
9:CN:57:ILE:CG2	10:CO:57:LEU:CD1	2.19	1.05
8:CR:56:ASN:CB	8:CR:199:GLY:CA	2.34	1.05
9:Cm:53:ARG:HG3	10:Cn:54:VAL:HG11	1.37	1.05
9:C6:53:ARG:HG3	10:C7:54:VAL:HG11	1.37	1.05
8:CC:56:ASN:CB	8:CC:199:GLY:CA	2.34	1.05
9:CD:14:LEU:HD11	10:CE:14:ILE:HG22	1.29	1.05
8:CM:21:ILE:HD13	10:CO:20:ARG:HB3	1.33	1.05
8:CW:18:ASN:HB3	10:CY:16:LYS:HZ2	1.06	1.05
9:Cc:53:ARG:HG3	10:Cd:54:VAL:HG11	1.37	1.05
9:Ch:20:LEU:HD22	10:CI:21:THR:HG21	1.35	1.05
8:Cq:21:ILE:HD13	10:Cs:20:ARG:HB3	1.33	1.05
3:Ai:102:ILE:HG12	3:Ai:150:LEU:HA	1.39	1.04
4:Bx:76:ILE:HA	4:Bx:79:LEU:HD23	1.37	1.04
9:CI:53:ARG:HG3	10:CJ:54:VAL:HG11	1.37	1.04
9:CI:57:ILE:HD11	10:CJ:54:VAL:HG13	1.36	1.04
9:CX:28:ILE:HD12	10:CY:28:ILE:HG12	1.37	1.04
10:CY:82:VAL:HG12	10:CY:94:ASP:HB3	1.34	1.04
8:Cg:56:ASN:CB	8:Cg:199:GLY:CA	2.34	1.04
9:Ch:109:ASN:HB3	9:Ch:225:LEU:HD13	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AE:102:ILE:HG12	3:AE:150:LEU:HA	1.39	1.04
3:Ad:102:ILE:HG12	3:Ad:150:LEU:HA	1.39	1.04
4:BT:76:ILE:HA	4:BT:79:LEU:HD23	1.37	1.04
8:C0:18:ASN:HB3	10:C2:16:LYS:HZ2	1.06	1.04
9:CD:109:ASN:HB3	9:CD:225:LEU:HD13	1.39	1.04
9:CN:109:ASN:HB3	9:CN:225:LEU:HD13	1.39	1.04
8:CR:21:ILE:HD13	10:CT:20:ARG:HB3	1.33	1.04
8:Cg:21:ILE:HB	10:Ci:20:ARG:NH1	1.37	1.04
9:Cm:57:ILE:HD11	10:Cn:54:VAL:HG13	1.36	1.04
9:Cr:109:ASN:HB3	9:Cr:225:LEU:HD13	1.39	1.04
8:Cv:21:ILE:HB	10:Cx:20:ARG:NH1	1.37	1.04
8:Cv:21:ILE:HD13	10:Cx:20:ARG:HB3	1.33	1.04
3:A7:102:ILE:HG12	3:A7:150:LEU:HA	1.39	1.04
9:C1:28:ILE:HD12	10:C2:28:ILE:HG12	1.37	1.04
8:CC:18:ASN:HB3	10:CE:16:LYS:HZ2	1.12	1.04
3:A2:102:ILE:HG12	3:A2:150:LEU:HA	1.39	1.04
3:AY:102:ILE:HG12	3:AY:150:LEU:HA	1.39	1.04
8:CH:21:ILE:HD13	10:CJ:20:ARG:HB3	1.33	1.04
9:CS:53:ARG:HG3	10:CT:54:VAL:HG11	1.37	1.04
10:Ci:82:VAL:HG12	10:Ci:94:ASP:HB3	1.34	1.04
9:Cw:53:ARG:HG3	10:Cx:54:VAL:HG11	1.37	1.04
3:AJ:102:ILE:HG12	3:AJ:150:LEU:HA	1.39	1.04
6:BS:109:LYS:HD2	6:BS:151:PRO:HG2	1.39	1.04
6:Bw:109:LYS:HD2	6:Bw:151:PRO:HG2	1.39	1.04
10:C2:82:VAL:HG12	10:C2:94:ASP:HB3	1.34	1.04
8:CC:21:ILE:HB	10:CE:20:ARG:NH1	1.37	1.04
9:CD:31:LEU:CD1	10:CE:28:ILE:HA	1.88	1.04
9:Ch:31:LEU:CD1	10:Ci:28:ILE:HA	1.88	1.04
3:An:102:ILE:HG12	3:An:150:LEU:HA	1.39	1.03
9:C6:34:LYS:O	10:C7:35:LEU:HD12	1.58	1.03
10:CE:82:VAL:HG12	10:CE:94:ASP:HB3	1.34	1.03
9:CN:20:LEU:HD22	10:CO:21:THR:HG21	1.35	1.03
9:Cc:34:LYS:O	10:Cd:35:LEU:HD12	1.58	1.03
9:Cr:20:LEU:HD22	10:Cs:21:THR:HG21	1.35	1.03
9:C6:109:ASN:HB3	9:C6:225:LEU:HD13	1.39	1.03
8:CH:21:ILE:HB	10:CJ:20:ARG:HH11	0.92	1.03
9:CI:109:ASN:HB3	9:CI:225:LEU:HD13	1.39	1.03
8:CR:21:ILE:HB	10:CT:20:ARG:NH1	1.37	1.03
9:Cc:109:ASN:HB3	9:Cc:225:LEU:HD13	1.39	1.03
8:Cl:21:ILE:HD13	10:Cn:20:ARG:HB3	1.33	1.03
9:Cm:31:LEU:CD1	10:Cn:28:ILE:HA	1.88	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BJ:76:ILE:HA	4:BJ:79:LEU:HD23	1.37	1.03
6:Bh:109:LYS:HD2	6:Bh:151:PRO:HG2	1.39	1.03
9:C6:31:LEU:CD1	10:C7:28:ILE:HA	1.88	1.03
9:CI:20:LEU:HD22	10:CJ:21:THR:HG21	1.35	1.03
9:CI:31:LEU:CD1	10:CJ:28:ILE:HA	1.88	1.03
9:Cc:31:LEU:CD1	10:Cd:28:ILE:HA	1.88	1.03
8:Cl:21:ILE:HB	10:Cn:20:ARG:HH11	0.92	1.03
9:Cm:109:ASN:HB3	9:Cm:225:LEU:HD13	1.39	1.03
6:BD:109:LYS:HD2	6:BD:151:PRO:HG2	1.39	1.03
8:C0:21:ILE:HB	10:C2:20:ARG:NH1	1.37	1.03
9:Ch:28:ILE:HD12	10:Ci:28:ILE:HG12	1.37	1.03
9:Cm:20:LEU:HD22	10:Cn:21:THR:HG21	1.35	1.03
6:BN:109:LYS:HD2	6:BN:151:PRO:HG2	1.40	1.03
8:CW:21:ILE:HB	10:CY:20:ARG:NH1	1.37	1.03
9:Cc:38:ALA:CB	10:Cd:35:LEU:CD1	2.00	1.03
4:Bn:76:ILE:HA	4:Bn:79:LEU:HD23	1.37	1.02
9:C6:31:LEU:HD11	10:C7:28:ILE:HA	1.41	1.02
9:CD:28:ILE:HD12	10:CE:28:ILE:HG12	1.37	1.02
9:Cc:31:LEU:HD11	10:Cd:28:ILE:HA	1.41	1.02
9:Cr:53:ARG:HG3	10:Cs:54:VAL:HG11	1.37	1.02
9:Cw:109:ASN:HB3	9:Cw:225:LEU:HD13	1.39	1.02
6:Br:109:LYS:HD2	6:Br:151:PRO:HG2	1.40	1.02
9:C1:31:LEU:CD1	10:C2:28:ILE:HA	1.88	1.02
8:CH:35:TYR:OH	10:CJ:34:LEU:HD22	1.20	1.02
9:CN:53:ARG:HG3	10:CO:54:VAL:HG11	1.37	1.02
9:CS:109:ASN:HB3	9:CS:225:LEU:HD13	1.39	1.02
9:CX:46:PHE:CE1	10:CY:47:ALA:CB	2.21	1.02
8:Cl:35:TYR:OH	10:Cn:34:LEU:HD22	1.20	1.02
9:Cr:31:LEU:CD1	10:Cs:28:ILE:HA	1.88	1.02
9:C1:46:PHE:CE1	10:C2:47:ALA:CB	2.21	1.02
9:C6:38:ALA:CB	10:C7:35:LEU:CD1	2.00	1.02
9:C6:57:ILE:HD11	10:C7:54:VAL:HG13	1.36	1.02
8:CC:21:ILE:HB	10:CE:20:ARG:HH11	0.92	1.02
9:CI:34:LYS:O	10:CJ:35:LEU:HD12	1.58	1.02
9:CN:31:LEU:CD1	10:CO:28:ILE:HA	1.88	1.02
8:CR:21:ILE:CB	10:CT:20:ARG:NH1	1.90	1.02
9:CX:31:LEU:CD1	10:CY:28:ILE:HA	1.88	1.02
3:Ao:22:VAL:HG12	3:Ao:127:LEU:HD22	1.41	1.02
9:Cc:57:ILE:HD11	10:Cd:54:VAL:HG13	1.36	1.02
8:Cg:21:ILE:HB	10:CI:20:ARG:HH11	0.92	1.02
9:Ch:31:LEU:HD11	10:CI:28:ILE:HA	1.41	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cm:34:LYS:O	10:Cn:35:LEU:HD12	1.58	1.02
9:Cw:31:LEU:CD1	10:Cx:28:ILE:HA	1.88	1.02
3:AK:22:VAL:HG12	3:AK:127:LEU:HD22	1.41	1.02
3:Ax:102:ILE:HG12	3:Ax:150:LEU:HA	1.39	1.02
9:C1:14:LEU:HD11	10:C2:14:ILE:HG22	1.29	1.02
9:C1:53:ARG:HG3	10:C2:54:VAL:HG11	1.37	1.02
9:CX:53:ARG:HG3	10:CY:54:VAL:HG11	1.37	1.02
3:AT:102:ILE:HG12	3:AT:150:LEU:HA	1.39	1.01
4:B2:76:ILE:HA	4:B2:79:LEU:HD23	1.37	1.01
8:C5:35:TYR:OH	10:C7:34:LEU:HD22	1.21	1.01
9:CD:31:LEU:HD11	10:CE:28:ILE:HA	1.41	1.01
9:CS:31:LEU:CD1	10:CT:28:ILE:HA	1.88	1.01
8:Cv:21:ILE:CB	10:Cx:20:ARG:NH1	1.90	1.01
8:CH:28:LEU:CD1	10:CJ:27:SER:CB	2.29	1.01
8:CR:10:PHE:CG	10:CT:10:HIS:NE2	2.29	1.01
8:Cb:35:TYR:OH	10:Cd:34:LEU:HD22	1.21	1.01
8:Cv:10:PHE:CG	10:Cx:10:HIS:NE2	2.29	1.01
3:AO:102:ILE:HG12	3:AO:150:LEU:HA	1.39	1.01
4:BY:76:ILE:HA	4:BY:79:LEU:HD23	1.37	1.01
6:Bc:109:LYS:HD2	6:Bc:151:PRO:HG2	1.40	1.01
9:CD:57:ILE:HG21	10:CE:57:LEU:HD12	1.30	1.01
8:CH:10:PHE:CG	10:CJ:10:HIS:NE2	2.29	1.01
8:CM:21:ILE:HB	10:CO:20:ARG:HH11	0.92	1.01
9:CS:46:PHE:CE1	10:CT:47:ALA:CB	2.21	1.01
9:CX:34:LYS:O	10:CY:35:LEU:HD12	1.58	1.01
8:Cl:10:PHE:CG	10:Cn:10:HIS:NE2	2.29	1.01
9:Cw:46:PHE:CE1	10:Cx:47:ALA:CB	2.21	1.01
3:AF:22:VAL:HG12	3:AF:127:LEU:HD22	1.41	1.01
3:Aj:22:VAL:HG12	3:Aj:127:LEU:HD22	1.41	1.01
3:As:102:ILE:HG12	3:As:150:LEU:HA	1.39	1.01
6:B6:109:LYS:HD2	6:B6:151:PRO:HG2	1.40	1.01
8:C0:10:PHE:CG	10:C2:10:HIS:NE2	2.29	1.01
9:C1:34:LYS:O	10:C2:35:LEU:HD12	1.58	1.01
9:C1:109:ASN:HB3	9:C1:225:LEU:HD13	1.39	1.01
8:CC:10:PHE:CG	10:CE:10:HIS:NE2	2.29	1.01
9:CD:57:ILE:HD11	10:CE:54:VAL:HG13	1.36	1.01
9:CI:28:ILE:HD12	10:CJ:28:ILE:HG12	1.37	1.01
8:CM:10:PHE:CG	10:CO:10:HIS:NE2	2.29	1.01
9:CN:34:LYS:O	10:CO:35:LEU:HD12	1.58	1.01
8:CW:10:PHE:CG	10:CY:10:HIS:NE2	2.29	1.01
9:CX:14:LEU:HD11	10:CY:14:ILE:HG22	1.29	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CX:31:LEU:HD11	10:CY:28:ILE:HA	1.41	1.01
9:CX:109:ASN:HB3	9:CX:225:LEU:HD13	1.39	1.01
8:Cg:10:PHE:CG	10:Ci:10:HIS:NE2	2.29	1.01
8:Cg:18:ASN:HB3	10:Ci:16:LYS:HZ2	1.18	1.01
9:Ch:34:LYS:O	10:Ci:35:LEU:HD12	1.58	1.01
9:Cm:46:PHE:CE1	10:Cn:47:ALA:CB	2.21	1.01
8:Cq:21:ILE:HB	10:Cs:20:ARG:HH11	0.92	1.01
9:Cr:34:LYS:O	10:Cs:35:LEU:HD12	1.58	1.01
6:Bm:109:LYS:HD2	6:Bm:151:PRO:HG2	1.39	1.01
9:C1:31:LEU:HD11	10:C2:28:ILE:HA	1.41	1.01
9:C6:46:PHE:CE1	10:C7:47:ALA:CB	2.21	1.01
9:CI:14:LEU:CD1	10:CJ:14:ILE:CG2	2.28	1.01
8:CR:28:LEU:CD1	10:CT:27:SER:CB	2.29	1.01
9:Ch:57:ILE:HD11	10:Ci:54:VAL:HG13	1.36	1.01
8:Cl:28:LEU:CD1	10:Cn:27:SER:CB	2.29	1.01
9:Cm:14:LEU:HD11	10:Cn:14:ILE:HG22	1.29	1.01
9:Cm:28:ILE:HD12	10:Cn:28:ILE:HG12	1.37	1.01
8:Cq:10:PHE:CG	10:Cs:10:HIS:NE2	2.29	1.01
9:CI:46:PHE:CE1	10:CJ:47:ALA:CB	2.21	1.00
9:Ch:57:ILE:HG21	10:Ci:57:LEU:HD12	1.30	1.00
9:CD:34:LYS:O	10:CE:35:LEU:HD12	1.58	1.00
9:CN:14:LEU:HD11	10:CO:14:ILE:CA	1.91	1.00
9:Cm:14:LEU:CD1	10:Cn:14:ILE:CG2	2.28	1.00
9:Cr:14:LEU:HD11	10:Cs:14:ILE:CA	1.91	1.00
3:At:22:VAL:HG12	3:At:127:LEU:HD22	1.41	1.00
6:B1:109:LYS:HD2	6:B1:151:PRO:HG2	1.39	1.00
6:BI:109:LYS:HD2	6:BI:151:PRO:HG2	1.39	1.00
9:CN:42:ASP:CA	10:CO:38:ARG:CZ	2.39	1.00
9:Cc:46:PHE:CE1	10:Cd:47:ALA:CB	2.21	1.00
8:Cv:28:LEU:CD1	10:Cx:27:SER:CB	2.29	1.00
9:CI:14:LEU:HD11	10:CJ:14:ILE:HG22	1.29	1.00
3:AU:22:VAL:HG12	3:AU:127:LEU:HD22	1.41	1.00
8:CC:35:TYR:OH	10:CE:34:LEU:HD22	1.20	1.00
9:Cr:42:ASP:CA	10:Cs:38:ARG:CZ	2.39	1.00
6:BX:109:LYS:HD2	6:BX:151:PRO:HG2	1.39	1.00
3:AP:22:VAL:HG12	3:AP:127:LEU:HD22	1.41	0.99
3:Ay:22:VAL:HG12	3:Ay:127:LEU:HD22	1.41	0.99
8:Cg:35:TYR:OH	10:Ci:34:LEU:HD22	1.20	0.99
9:Cm:31:LEU:HD11	10:Cn:28:ILE:HA	1.41	0.99
9:CS:42:ASP:CA	10:CT:38:ARG:CZ	2.39	0.99
9:CI:14:LEU:HD11	10:CJ:14:ILE:CA	1.91	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:31:LEU:HD11	10:CJ:28:ILE:HA	1.41	0.99
10:Cn:63:ASP:H	10:Cn:66:GLU:HB2	1.27	0.99
9:Cw:42:ASP:CA	10:Cx:38:ARG:CZ	2.39	0.99
3:AZ:22:VAL:HG12	3:AZ:127:LEU:HD22	1.41	0.99
9:C6:42:ASP:CA	10:C7:38:ARG:CZ	2.39	0.99
9:CD:14:LEU:HD11	10:CE:14:ILE:CA	1.91	0.99
9:Cc:42:ASP:CA	10:Cd:38:ARG:CZ	2.39	0.99
9:Ch:14:LEU:HD11	10:Ci:14:ILE:CA	1.91	0.99
8:Cb:21:ILE:HB	10:Cd:20:ARG:HH11	0.92	0.99
9:Cm:14:LEU:HD11	10:Cn:14:ILE:CA	1.91	0.99
10:CJ:63:ASP:H	10:CJ:66:GLU:HB2	1.27	0.99
8:CM:55:SER:N	10:CO:53:ARG:HH22	1.61	0.99
8:Cq:55:SER:N	10:Cs:53:ARG:HH22	1.61	0.99
3:A3:22:VAL:HG12	3:A3:127:LEU:HD22	1.41	0.99
8:C5:10:PHE:CG	10:C7:10:HIS:NE2	2.29	0.99
8:C5:21:ILE:HB	10:C7:20:ARG:HH11	0.92	0.99
9:CS:31:LEU:HD11	10:CT:28:ILE:HA	1.41	0.99
9:Cw:31:LEU:HD11	10:Cx:28:ILE:HA	1.41	0.99
9:C6:41:ILE:O	10:C7:38:ARG:CZ	2.11	0.99
8:CR:35:TYR:OH	10:CT:34:LEU:HD22	1.20	0.99
9:Cc:41:ILE:O	10:Cd:38:ARG:CZ	2.11	0.99
8:Cv:35:TYR:OH	10:Cx:34:LEU:HD22	1.20	0.99
9:C1:41:ILE:O	10:C2:38:ARG:CZ	2.11	0.98
8:Cb:10:PHE:CG	10:Cd:10:HIS:NE2	2.29	0.98
9:Cc:14:LEU:HD11	10:Cd:14:ILE:CA	1.91	0.98
9:C6:14:LEU:HD11	10:C7:14:ILE:CA	1.91	0.98
9:CX:41:ILE:O	10:CY:38:ARG:CZ	2.11	0.98
8:Cv:55:SER:N	10:Cx:53:ARG:HH22	1.61	0.98
3:Ae:22:VAL:HG12	3:Ae:127:LEU:HD22	1.41	0.98
9:Cr:31:LEU:HD11	10:Cs:28:ILE:HA	1.41	0.98
9:Cr:46:PHE:CE1	10:Cs:47:ALA:CB	2.21	0.98
3:AA:22:VAL:HG12	3:AA:127:LEU:HD22	1.41	0.98
8:CH:10:PHE:CD1	10:CJ:10:HIS:NE2	2.32	0.98
9:CN:46:PHE:CE1	10:CO:47:ALA:CB	2.21	0.98
8:CR:55:SER:N	10:CT:53:ARG:HH22	1.61	0.98
9:CX:14:LEU:HD11	10:CY:14:ILE:CA	1.91	0.98
8:Cl:10:PHE:CD1	10:Cn:10:HIS:NE2	2.32	0.98
3:AA:102:ILE:HD11	3:AA:149:ASP:HB3	1.46	0.98
3:Ae:102:ILE:HD11	3:Ae:149:ASP:HB3	1.46	0.98
9:CN:31:LEU:HD11	10:CO:28:ILE:HA	1.41	0.98
9:CX:38:ALA:CB	10:CY:35:LEU:CD1	2.00	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cx:63:ASP:H	10:Cx:66:GLU:HB2	1.27	0.98
3:Ay:102:ILE:HD11	3:Ay:149:ASP:HB3	1.46	0.98
9:C1:14:LEU:HD11	10:C2:14:ILE:CA	1.91	0.98
8:CH:55:SER:N	10:CJ:53:ARG:HH22	1.61	0.98
9:CI:27:ILE:CG2	10:CJ:28:ILE:HD13	1.93	0.98
8:CM:10:PHE:CD1	10:CO:10:HIS:NE2	2.32	0.98
9:CN:41:ILE:O	10:CO:38:ARG:CZ	2.11	0.98
9:CS:14:LEU:HD11	10:CT:14:ILE:CA	1.91	0.98
9:Cm:27:ILE:CG2	10:Cn:28:ILE:HD13	1.93	0.98
8:Cq:10:PHE:CD1	10:Cs:10:HIS:NE2	2.32	0.98
8:Cq:35:TYR:OH	10:Cs:34:LEU:HD22	1.21	0.98
9:Cw:14:LEU:HD11	10:Cx:14:ILE:CA	1.91	0.98
3:Aj:102:ILE:HD11	3:Aj:149:ASP:HB3	1.46	0.98
9:CD:42:ASP:CA	10:CE:38:ARG:CZ	2.39	0.98
10:CO:63:ASP:H	10:CO:66:GLU:HB2	1.27	0.98
8:CW:35:TYR:OH	10:CY:34:LEU:HD22	1.20	0.98
9:Cr:41:ILE:O	10:Cs:38:ARG:CZ	2.11	0.98
10:Cs:63:ASP:H	10:Cs:66:GLU:HB2	1.27	0.98
3:AU:102:ILE:HD11	3:AU:149:ASP:HB3	1.46	0.98
8:CC:10:PHE:CD1	10:CE:10:HIS:NE2	2.32	0.98
9:CD:41:ILE:O	10:CE:38:ARG:CZ	2.11	0.98
10:CT:63:ASP:H	10:CT:66:GLU:HB2	1.27	0.98
8:Cb:35:TYR:CE1	10:Cd:34:LEU:HB3	1.97	0.98
8:Cg:10:PHE:CE2	10:CI:10:HIS:CD2	2.51	0.98
8:Cg:10:PHE:CD1	10:CI:10:HIS:NE2	2.32	0.98
9:Ch:42:ASP:CA	10:CI:38:ARG:CZ	2.39	0.98
8:Cl:55:SER:N	10:Cn:53:ARG:HH22	1.61	0.98
8:Cq:35:TYR:CE1	10:Cs:34:LEU:HB3	1.97	0.98
3:AF:102:ILE:HD11	3:AF:149:ASP:HB3	1.46	0.98
3:AP:102:ILE:HD11	3:AP:149:ASP:HB3	1.46	0.98
3:At:102:ILE:HD11	3:At:149:ASP:HB3	1.46	0.98
8:C0:35:TYR:OH	10:C2:34:LEU:HD22	1.20	0.98
10:C2:63:ASP:H	10:C2:66:GLU:HB2	1.27	0.98
8:CM:35:TYR:OH	10:CO:34:LEU:HD22	1.21	0.98
8:CR:21:ILE:HB	10:CT:20:ARG:HH11	0.92	0.98
9:Ch:41:ILE:O	10:CI:38:ARG:CZ	2.11	0.98
8:CC:10:PHE:CE2	10:CE:10:HIS:CD2	2.51	0.97
9:CS:41:ILE:O	10:CT:38:ARG:CZ	2.11	0.97
8:Cv:21:ILE:HB	10:Cx:20:ARG:HH11	0.92	0.97
8:C5:35:TYR:CE1	10:C7:34:LEU:HB3	1.97	0.97
8:CM:35:TYR:CE1	10:CO:34:LEU:HB3	1.97	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:41:ILE:O	10:CJ:38:ARG:CZ	2.11	0.97
9:Cm:41:ILE:O	10:Cn:38:ARG:CZ	2.11	0.97
9:Cw:34:LYS:O	10:Cx:35:LEU:HD12	1.58	0.97
9:Cw:41:ILE:O	10:Cx:38:ARG:CZ	2.11	0.97
3:AZ:102:ILE:HD11	3:AZ:149:ASP:HB3	1.46	0.97
9:C1:38:ALA:CB	10:C2:35:LEU:CD1	2.00	0.97
9:C6:57:ILE:HD13	10:C7:57:LEU:CD1	1.94	0.97
10:CY:63:ASP:H	10:CY:66:GLU:HB2	1.27	0.97
9:Cc:57:ILE:HD13	10:Cd:57:LEU:CD1	1.94	0.97
10:C7:63:ASP:H	10:C7:66:GLU:HB2	1.27	0.97
8:CR:10:PHE:CD1	10:CT:10:HIS:NE2	2.32	0.97
8:Cb:10:PHE:CD1	10:Cd:10:HIS:NE2	2.32	0.97
9:Ch:57:ILE:HD13	10:CI:57:LEU:CD1	1.94	0.97
3:A3:102:ILE:HD11	3:A3:149:ASP:HB3	1.46	0.97
3:AK:102:ILE:HD11	3:AK:149:ASP:HB3	1.46	0.97
9:C1:27:ILE:CG2	10:C2:28:ILE:HD13	1.93	0.97
9:C6:27:ILE:CG2	10:C7:28:ILE:HD13	1.93	0.97
9:CD:57:ILE:HD13	10:CE:57:LEU:CD1	1.94	0.97
3:Ao:102:ILE:HD11	3:Ao:149:ASP:HB3	1.46	0.97
8:C0:55:SER:N	10:C2:53:ARG:HH22	1.61	0.97
8:C5:10:PHE:CD1	10:C7:10:HIS:NE2	2.32	0.97
9:CS:34:LYS:O	10:CT:35:LEU:HD12	1.58	0.97
8:CW:35:TYR:CE1	10:CY:34:LEU:HB3	1.97	0.97
9:CX:27:ILE:CG2	10:CY:28:ILE:HD13	1.93	0.97
9:Cc:27:ILE:CG2	10:Cd:28:ILE:HD13	1.93	0.97
8:Cv:10:PHE:CD1	10:Cx:10:HIS:NE2	2.32	0.97
9:CD:27:ILE:CG2	10:CE:28:ILE:HD13	1.93	0.97
8:CW:10:PHE:CD1	10:CY:10:HIS:NE2	2.32	0.97
2:Ah:84:LEU:HA	2:Ah:90:LEU:HD22	1.46	0.97
8:CH:10:PHE:O	10:CJ:13:ILE:HD12	1.65	0.97
8:CW:55:SER:N	10:CY:53:ARG:HH22	1.61	0.97
10:Cd:63:ASP:H	10:Cd:66:GLU:HB2	1.27	0.97
8:CI:10:PHE:O	10:Cn:13:ILE:HD12	1.65	0.97
9:Cm:24:LEU:HD23	10:Cn:24:ILE:HG23	1.45	0.97
2:AD:84:LEU:HA	2:AD:90:LEU:HD22	1.46	0.97
8:C0:10:PHE:CD1	10:C2:10:HIS:NE2	2.32	0.97
9:CI:24:LEU:HD23	10:CJ:24:ILE:HG23	1.45	0.97
8:CW:21:ILE:HB	10:CY:20:ARG:HH11	0.92	0.97
8:Cg:55:SER:N	10:CI:53:ARG:HH22	1.61	0.97
9:Ch:27:ILE:CG2	10:CI:28:ILE:HD13	1.93	0.97
8:Cv:35:TYR:CE1	10:Cx:34:LEU:HB3	1.97	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C0:21:ILE:HB	10:C2:20:ARG:HH11	0.92	0.96
8:C0:35:TYR:CE1	10:C2:34:LEU:HB3	1.97	0.96
8:C1:35:TYR:CE1	10:Cn:34:LEU:HB3	1.97	0.96
9:Cr:24:LEU:HD23	10:Cs:24:ILE:HG23	1.46	0.96
8:Cv:56:ASN:CB	8:Cv:200:ASP:N	2.28	0.96
9:C1:42:ASP:CA	10:C2:38:ARG:CZ	2.39	0.96
4:BP:120:GLN:HG2	9:CS:80:LEU:HD11	1.47	0.96
8:C5:55:SER:N	10:C7:53:ARG:HH22	1.61	0.96
8:CC:35:TYR:CE1	10:CE:34:LEU:HB3	1.97	0.96
8:CC:55:SER:N	10:CE:53:ARG:HH22	1.61	0.96
8:CH:35:TYR:CE1	10:CJ:34:LEU:HB3	1.97	0.96
8:CR:56:ASN:CB	8:CR:200:ASP:N	2.28	0.96
10:CE:63:ASP:H	10:CE:66:GLU:HB2	1.27	0.96
9:CN:24:LEU:HD23	10:CO:24:ILE:HG23	1.46	0.96
8:CR:35:TYR:CE1	10:CT:34:LEU:HB3	1.97	0.96
9:CS:27:ILE:CG2	10:CT:28:ILE:HD13	1.93	0.96
9:CX:42:ASP:CA	10:CY:38:ARG:CZ	2.39	0.96
8:Cg:35:TYR:CE1	10:Ci:34:LEU:HB3	1.97	0.96
4:Bt:120:GLN:HG2	9:Cw:80:LEU:HD11	1.47	0.96
8:C5:10:PHE:O	10:C7:13:ILE:HD12	1.65	0.96
9:CN:14:LEU:CD1	10:CO:14:ILE:CG2	2.28	0.96
8:CR:10:PHE:CE2	10:CT:10:HIS:CD2	2.51	0.96
8:Cb:55:SER:N	10:Cd:53:ARG:HH22	1.61	0.96
8:Cv:10:PHE:CE2	10:Cx:10:HIS:CD2	2.51	0.96
8:CR:56:ASN:HB2	8:CR:199:GLY:C	1.89	0.96
8:Cb:10:PHE:O	10:Cd:13:ILE:HD12	1.65	0.96
9:Cr:27:ILE:CG2	10:Cs:28:ILE:HD13	1.93	0.96
9:Cr:57:ILE:HD13	10:Cs:57:LEU:CD1	1.94	0.96
9:Cw:27:ILE:CG2	10:Cx:28:ILE:HD13	1.93	0.96
2:A6:84:LEU:HA	2:A6:90:LEU:HD22	1.46	0.96
8:CC:56:ASN:CB	8:CC:200:ASP:N	2.28	0.96
9:CN:57:ILE:HD13	10:CO:57:LEU:CD1	1.94	0.96
8:CW:10:PHE:O	10:CY:13:ILE:HD12	1.65	0.96
9:CI:13:ARG:HH12	10:CJ:14:ILE:HG13	0.79	0.96
9:CI:42:ASP:CA	10:CJ:38:ARG:CZ	2.39	0.96
9:CN:27:ILE:CG2	10:CO:28:ILE:HD13	1.93	0.96
8:Cg:56:ASN:CB	8:Cg:200:ASP:N	2.28	0.96
10:Ci:63:ASP:H	10:Ci:66:GLU:HB2	1.27	0.96
9:Cm:13:ARG:HH12	10:Cn:14:ILE:HG13	0.79	0.96
9:Cm:42:ASP:CA	10:Cn:38:ARG:CZ	2.39	0.96
8:Cq:56:ASN:CB	8:Cq:200:ASP:N	2.28	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ac:84:LEU:HA	2:Ac:90:LEU:HD22	1.46	0.96
8:C0:10:PHE:O	10:C2:13:ILE:HD12	1.65	0.96
8:CH:56:ASN:CB	8:CH:200:ASP:N	2.28	0.96
9:Cr:14:LEU:CD1	10:Cs:14:ILE:CG2	2.28	0.96
8:Cv:56:ASN:HB2	8:Cv:199:GLY:C	1.89	0.96
2:AI:84:LEU:HA	2:AI:90:LEU:HD22	1.47	0.96
2:Am:84:LEU:HA	2:Am:90:LEU:HD22	1.47	0.96
8:C5:10:PHE:CE2	10:C7:10:HIS:CD2	2.51	0.96
8:CM:56:ASN:CB	8:CM:200:ASP:N	2.28	0.96
8:C0:56:ASN:CB	8:C0:200:ASP:N	2.28	0.95
8:C5:28:LEU:HD11	10:C7:27:SER:HB3	1.48	0.95
8:CW:56:ASN:CB	8:CW:200:ASP:N	2.28	0.95
8:Cb:28:LEU:HD11	10:Cd:27:SER:HB3	1.48	0.95
8:Cl:56:ASN:CB	8:Cl:200:ASP:N	2.28	0.95
2:AS:84:LEU:HA	2:AS:90:LEU:HD22	1.46	0.95
9:CD:13:ARG:HH12	10:CE:14:ILE:HG13	0.79	0.95
8:CW:28:LEU:CD1	10:CY:27:SER:CB	2.29	0.95
8:Cv:10:PHE:O	10:Cx:13:ILE:HD12	1.65	0.95
2:Aw:84:LEU:HA	2:Aw:90:LEU:HD22	1.46	0.95
8:C0:56:ASN:HB2	8:C0:199:GLY:C	1.89	0.95
8:CR:10:PHE:O	10:CT:13:ILE:HD12	1.65	0.95
8:Cb:10:PHE:CE2	10:Cd:10:HIS:CD2	2.51	0.95
9:Cc:24:LEU:HD23	10:Cd:24:ILE:HG23	1.46	0.95
9:Ch:13:ARG:HH12	10:Ci:14:ILE:HG13	0.79	0.95
8:CW:56:ASN:HB2	8:CW:199:GLY:C	1.89	0.95
9:CX:57:ILE:HD13	10:CY:57:LEU:CD1	1.94	0.95
8:Cg:10:PHE:O	10:Ci:13:ILE:HD12	1.65	0.95
9:Cw:57:ILE:HD13	10:Cx:57:LEU:CD1	1.94	0.95
9:C1:57:ILE:HD13	10:C2:57:LEU:CD1	1.94	0.95
9:C6:24:LEU:HD23	10:C7:24:ILE:HG23	1.46	0.95
9:CD:24:LEU:HD23	10:CE:24:ILE:HG23	1.45	0.95
8:CW:10:PHE:CE2	10:CY:10:HIS:CD2	2.51	0.95
9:Ch:24:LEU:HD23	10:Ci:24:ILE:HG23	1.45	0.95
4:By:120:GLN:HG2	9:C1:80:LEU:HD11	1.47	0.95
8:C0:10:PHE:CE2	10:C2:10:HIS:CD2	2.51	0.95
8:CC:10:PHE:O	10:CE:13:ILE:HD12	1.65	0.95
9:Cl:57:ILE:HD13	10:CJ:57:LEU:CD1	1.94	0.95
9:Cm:57:ILE:HD13	10:Cn:57:LEU:CD1	1.94	0.95
4:BK:120:GLN:HG2	9:CN:80:LEU:HD11	1.47	0.95
4:BU:120:GLN:HG2	9:CX:80:LEU:HD11	1.47	0.95
8:C0:28:LEU:CD1	10:C2:27:SER:CB	2.29	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CS:57:ILE:HD13	10:CT:57:LEU:CD1	1.94	0.95
8:CC:28:LEU:CD1	10:CE:27:SER:CB	2.29	0.95
9:C6:66:THR:HG21	9:C6:76:CYS:HB3	1.49	0.95
8:CW:28:LEU:HD11	10:CY:27:SER:HB3	1.48	0.95
9:Cw:24:LEU:HD23	10:Cx:24:ILE:HG23	1.45	0.95
4:Bo:120:GLN:HG2	9:Cr:80:LEU:HD11	1.47	0.94
9:Cc:66:THR:HG21	9:Cc:76:CYS:HB3	1.49	0.94
8:Cl:42:VAL:HG21	8:Cl:46:THR:CB	1.97	0.94
9:Cm:66:THR:HG21	9:Cm:76:CYS:HB3	1.49	0.94
4:A4:101:ILE:HD11	4:A4:142:LYS:HA	1.49	0.94
4:AB:101:ILE:HD11	4:AB:142:LYS:HA	1.49	0.94
4:Af:101:ILE:HD11	4:Af:142:LYS:HA	1.49	0.94
8:C0:28:LEU:HD11	10:C2:27:SER:HB3	1.48	0.94
9:C1:66:THR:HG21	9:C1:76:CYS:HB3	1.49	0.94
8:CH:42:VAL:HG21	8:CH:46:THR:CB	1.97	0.94
8:CM:10:PHE:CE2	10:CO:10:HIS:CD2	2.51	0.94
9:CX:66:THR:HG21	9:CX:76:CYS:HB3	1.49	0.94
9:Cc:173:ASN:HB3	9:Cc:176:SER:HB2	1.50	0.94
8:Cg:28:LEU:HD11	10:Ci:27:SER:HB3	1.48	0.94
8:Cq:42:VAL:HG21	8:Cq:46:THR:CB	1.97	0.94
9:C6:173:ASN:HB3	9:C6:176:SER:HB2	1.50	0.94
9:CI:66:THR:HG21	9:CI:76:CYS:HB3	1.49	0.94
8:CM:42:VAL:HG21	8:CM:46:THR:CB	1.97	0.94
9:Ch:66:THR:HG21	9:Ch:76:CYS:HB3	1.49	0.94
9:Ch:173:ASN:HB3	9:Ch:176:SER:HB2	1.49	0.94
8:Cq:10:PHE:CE2	10:Cs:10:HIS:CD2	2.51	0.94
4:Aa:101:ILE:HD11	4:Aa:142:LYS:HA	1.49	0.94
8:C0:43:ASP:O	8:C0:46:THR:N	2.01	0.94
8:CC:28:LEU:HD11	10:CE:27:SER:HB3	1.48	0.94
9:CD:66:THR:HG21	9:CD:76:CYS:HB3	1.49	0.94
9:CD:173:ASN:HB3	9:CD:176:SER:HB2	1.49	0.94
9:CN:66:THR:HG21	9:CN:76:CYS:HB3	1.49	0.94
9:CN:109:ASN:HB3	9:CN:225:LEU:CD1	1.98	0.94
9:CS:24:LEU:HD23	10:CT:24:ILE:HG23	1.45	0.94
8:Cg:28:LEU:CD1	10:Ci:27:SER:CB	2.29	0.94
9:Cr:109:ASN:HB3	9:Cr:225:LEU:CD1	1.98	0.94
4:Bj:120:GLN:HG2	9:Cm:80:LEU:HD11	1.47	0.94
8:CH:43:ASP:O	8:CH:46:THR:N	2.01	0.94
8:CW:42:VAL:HG21	8:CW:46:THR:CB	1.97	0.94
8:CW:43:ASP:O	8:CW:46:THR:N	2.01	0.94
8:Cq:10:PHE:O	10:Cs:13:ILE:HD12	1.65	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:66:THR:HG21	9:Cr:76:CYS:HB3	1.49	0.94
4:Az:101:ILE:HD11	4:Az:142:LYS:HA	1.49	0.94
4:BA:120:GLN:HG2	9:CD:80:LEU:HD11	1.47	0.94
4:Be:120:GLN:HG2	9:Ch:80:LEU:HD11	1.47	0.94
8:Cl:43:ASP:O	8:Cl:46:THR:N	2.01	0.94
4:AQ:101:ILE:HD11	4:AQ:142:LYS:HA	1.49	0.94
8:C0:42:VAL:HG21	8:C0:46:THR:CB	1.97	0.94
8:C5:56:ASN:CB	8:C5:200:ASP:N	2.28	0.94
9:Cm:173:ASN:HB3	9:Cm:176:SER:HB2	1.49	0.94
4:AV:101:ILE:HD11	4:AV:142:LYS:HA	1.49	0.94
4:Au:101:ILE:HD11	4:Au:142:LYS:HA	1.49	0.94
4:BF:120:GLN:HG2	9:CI:80:LEU:HD11	1.47	0.94
8:C5:42:VAL:HG21	8:C5:46:THR:CB	1.97	0.94
8:CC:42:VAL:HG21	8:CC:46:THR:CB	1.97	0.94
9:CI:109:ASN:HB3	9:CI:225:LEU:CD1	1.98	0.94
8:CM:10:PHE:O	10:CO:13:ILE:HD12	1.65	0.94
9:CX:24:LEU:HD23	10:CY:24:ILE:HG23	1.45	0.94
8:Cb:42:VAL:HG21	8:Cb:46:THR:CB	1.97	0.94
8:Cb:56:ASN:CB	8:Cb:200:ASP:N	2.28	0.94
8:Cg:42:VAL:HG21	8:Cg:46:THR:CB	1.97	0.94
9:Cm:109:ASN:HB3	9:Cm:225:LEU:CD1	1.98	0.94
9:Cr:14:LEU:HD11	10:Cs:14:ILE:HG22	1.29	0.94
9:CI:173:ASN:HB3	9:CI:176:SER:HB2	1.49	0.94
9:CN:110:VAL:HG13	9:CN:131:THR:HB	1.50	0.94
9:Cw:109:ASN:HB3	9:Cw:225:LEU:CD1	1.98	0.94
2:AX:84:LEU:HA	2:AX:90:LEU:HD22	1.47	0.94
9:C1:173:ASN:HB3	9:C1:176:SER:HB2	1.49	0.94
9:CN:173:ASN:HB3	9:CN:176:SER:HB2	1.50	0.94
8:CR:43:ASP:O	8:CR:46:THR:N	2.01	0.94
9:CS:109:ASN:HB3	9:CS:225:LEU:CD1	1.98	0.94
9:Cm:110:VAL:HG13	9:Cm:131:THR:HB	1.50	0.94
9:Cr:110:VAL:HG13	9:Cr:131:THR:HB	1.50	0.94
2:A1:84:LEU:HA	2:A1:90:LEU:HD22	1.47	0.93
9:CD:110:VAL:HG13	9:CD:131:THR:HB	1.50	0.93
9:CX:173:ASN:HB3	9:CX:176:SER:HB2	1.49	0.93
8:Cq:43:ASP:O	8:Cq:46:THR:N	2.01	0.93
9:Cr:173:ASN:HB3	9:Cr:176:SER:HB2	1.50	0.93
8:Cv:43:ASP:O	8:Cv:46:THR:N	2.01	0.93
9:C1:13:ARG:HH12	10:C2:14:ILE:HG13	0.79	0.93
9:C1:24:LEU:HD23	10:C2:24:ILE:HG23	1.45	0.93
9:CI:110:VAL:HG13	9:CI:131:THR:HB	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CR:42:VAL:HG21	8:CR:46:THR:CB	1.97	0.93
8:Cb:28:LEU:CD1	10:Cd:27:SER:CB	2.29	0.93
8:Cg:43:ASP:O	8:Cg:46:THR:N	2.01	0.93
9:Ch:110:VAL:HG13	9:Ch:131:THR:HB	1.50	0.93
8:Cv:42:VAL:HG21	8:Cv:46:THR:CB	1.97	0.93
4:AL:101:ILE:HD11	4:AL:142:LYS:HA	1.49	0.93
2:AN:84:LEU:HA	2:AN:90:LEU:HD22	1.46	0.93
4:Ap:101:ILE:HD11	4:Ap:142:LYS:HA	1.49	0.93
8:CM:43:ASP:O	8:CM:46:THR:N	2.01	0.93
9:CS:173:ASN:HB3	9:CS:176:SER:HB2	1.49	0.93
9:CX:13:ARG:HH12	10:CY:14:ILE:HG13	0.79	0.93
8:Cb:43:ASP:O	8:Cb:46:THR:N	2.01	0.93
9:Cc:13:ARG:HH12	10:Cd:14:ILE:HG13	0.79	0.93
9:Cw:173:ASN:HB3	9:Cw:176:SER:HB2	1.49	0.93
8:C5:43:ASP:O	8:C5:46:THR:N	2.01	0.93
8:CC:43:ASP:O	8:CC:46:THR:N	2.01	0.93
9:Cw:13:ARG:HH12	10:Cx:14:ILE:HG13	0.79	0.93
2:Ar:84:LEU:HA	2:Ar:90:LEU:HD22	1.46	0.93
9:CN:14:LEU:HD11	10:CO:14:ILE:HG22	1.29	0.93
9:CS:13:ARG:HH12	10:CT:14:ILE:HG13	0.79	0.93
9:Cw:66:THR:HG21	9:Cw:76:CYS:HB3	1.49	0.93
8:C5:28:LEU:CD1	10:C7:27:SER:CB	2.29	0.93
9:C6:13:ARG:HH12	10:C7:14:ILE:HG13	0.79	0.93
9:CD:109:ASN:HB3	9:CD:225:LEU:CD1	1.98	0.93
8:CW:35:TYR:CE1	10:CY:34:LEU:CB	2.50	0.93
4:AG:101:ILE:HD11	4:AG:142:LYS:HA	1.49	0.93
4:BZ:120:GLN:HG2	9:Cc:80:LEU:HD11	1.47	0.93
8:C0:35:TYR:CE1	10:C2:34:LEU:CB	2.50	0.93
9:CS:66:THR:HG21	9:CS:76:CYS:HB3	1.49	0.93
4:B3:120:GLN:HG2	9:C6:80:LEU:HD11	1.47	0.93
8:C5:10:PHE:CB	10:C7:10:HIS:CD2	2.52	0.93
8:CH:10:PHE:CB	10:CJ:10:HIS:CD2	2.52	0.93
9:Ch:109:ASN:HB3	9:Ch:225:LEU:CD1	1.98	0.93
8:Cl:10:PHE:CB	10:Cn:10:HIS:CD2	2.52	0.93
4:Ak:101:ILE:HD11	4:Ak:142:LYS:HA	1.49	0.93
9:C1:109:ASN:HB3	9:C1:225:LEU:CD1	1.98	0.93
8:CM:56:ASN:HB2	8:CM:199:GLY:C	1.89	0.93
8:Cb:10:PHE:CB	10:Cd:10:HIS:CD2	2.52	0.93
9:CS:177:ARG:HB3	9:CS:197:PHE:CB	1.99	0.93
8:Cq:10:PHE:CB	10:Cs:10:HIS:CD2	2.52	0.93
9:CX:109:ASN:HB3	9:CX:225:LEU:CD1	1.98	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cw:177:ARG:HB3	9:Cw:197:PHE:CB	1.99	0.92
8:CM:10:PHE:CB	10:CO:10:HIS:CD2	2.52	0.92
8:CR:10:PHE:CB	10:CT:10:HIS:CD2	2.52	0.92
8:CR:35:TYR:CE1	10:CT:34:LEU:CB	2.50	0.92
9:CS:14:LEU:CD1	10:CT:14:ILE:CG2	2.28	0.92
3:AK:35:VAL:HG21	3:AK:74:ALA:HB2	1.50	0.92
9:C1:177:ARG:HB3	9:C1:197:PHE:CB	1.99	0.92
9:C6:109:ASN:HB3	9:C6:225:LEU:CD1	1.98	0.92
9:CX:177:ARG:HB3	9:CX:197:PHE:CB	1.99	0.92
9:Ch:177:ARG:HB3	9:Ch:197:PHE:CB	1.99	0.92
8:Cv:10:PHE:CB	10:Cx:10:HIS:CD2	2.52	0.92
8:Cv:35:TYR:CE1	10:Cx:34:LEU:CB	2.50	0.92
3:Ao:35:VAL:HG21	3:Ao:74:ALA:HB2	1.50	0.92
9:C6:110:VAL:HG13	9:C6:131:THR:HB	1.50	0.92
9:CD:177:ARG:HB3	9:CD:197:PHE:CB	1.99	0.92
8:CR:56:ASN:HB2	8:CR:198:LEU:C	1.95	0.92
9:Cc:110:VAL:HG13	9:Cc:131:THR:HB	1.50	0.92
8:Cq:56:ASN:HB2	8:Cq:199:GLY:C	1.89	0.92
8:Cv:56:ASN:HB2	8:Cv:198:LEU:C	1.95	0.92
9:C6:177:ARG:HB3	9:C6:197:PHE:CB	1.99	0.92
8:CC:10:PHE:CB	10:CE:10:HIS:CD2	2.52	0.92
8:CM:56:ASN:HB2	8:CM:198:LEU:C	1.95	0.92
9:Cc:109:ASN:HB3	9:Cc:225:LEU:CD1	1.98	0.92
8:C5:44:LYS:HE3	10:C7:46:LYS:NZ	1.85	0.92
9:CN:177:ARG:HB3	9:CN:197:PHE:CB	1.99	0.92
8:Cb:44:LYS:HE3	10:Cd:46:LYS:NZ	1.85	0.92
9:Cc:177:ARG:HB3	9:Cc:197:PHE:CB	1.99	0.92
9:Cm:177:ARG:HB3	9:Cm:197:PHE:CB	1.99	0.92
8:Cq:56:ASN:HB2	8:Cq:198:LEU:C	1.95	0.92
9:Cw:110:VAL:HG13	9:Cw:131:THR:HB	1.50	0.92
8:Cg:10:PHE:CB	10:Ci:10:HIS:CD2	2.52	0.92
9:Cw:14:LEU:CD1	10:Cx:14:ILE:CG2	2.28	0.92
9:CI:177:ARG:HB3	9:CI:197:PHE:CB	1.99	0.92
8:CM:28:LEU:CD1	10:CO:27:SER:CB	2.29	0.92
9:CS:20:LEU:HD23	10:CT:21:THR:HG21	1.51	0.92
9:CS:110:VAL:HG13	9:CS:131:THR:HB	1.50	0.92
8:CW:44:LYS:HE3	10:CY:46:LYS:NZ	1.85	0.92
9:Cr:177:ARG:HB3	9:Cr:197:PHE:CB	1.99	0.92
4:Af:122:GLY:HA2	8:Cg:170:PHE:CZ	2.05	0.92
4:Ap:122:GLY:HA2	8:Cq:170:PHE:CZ	2.05	0.92
4:AB:122:GLY:HA2	8:CC:170:PHE:CZ	2.05	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AL:122:GLY:HA2	8:CM:170:PHE:CZ	2.05	0.92
8:C0:44:LYS:HE3	10:C2:46:LYS:NZ	1.85	0.92
9:CN:13:ARG:HH12	10:CO:14:ILE:HG13	0.79	0.92
9:Cw:20:LEU:HD23	10:Cx:21:THR:HG21	1.51	0.92
6:BN:35:VAL:HG21	6:BN:74:ALA:HB2	1.52	0.91
6:Br:35:VAL:HG21	6:Br:74:ALA:HB2	1.52	0.91
8:CH:44:LYS:HE3	10:CJ:46:LYS:NZ	1.85	0.91
8:CR:11:GLN:CA	10:CT:13:ILE:HD11	2.00	0.91
8:CW:35:TYR:HH	10:CY:34:LEU:HD22	1.33	0.91
8:Cb:35:TYR:CE1	10:Cd:34:LEU:CB	2.50	0.91
8:Cb:56:ASN:HB2	8:Cb:198:LEU:C	1.95	0.91
8:Cg:44:LYS:HE3	10:Ci:46:LYS:NZ	1.85	0.91
8:Cl:44:LYS:HE3	10:Cn:46:LYS:NZ	1.85	0.91
8:Cq:28:LEU:HD11	10:Cs:27:SER:HB3	1.48	0.91
4:AG:122:GLY:HA2	8:CH:170:PHE:CZ	2.05	0.91
3:AP:35:VAL:HG21	3:AP:74:ALA:HB2	1.50	0.91
3:At:35:VAL:HG21	3:At:74:ALA:HB2	1.50	0.91
6:Bw:35:VAL:HG21	6:Bw:74:ALA:HB2	1.52	0.91
8:C5:35:TYR:CE1	10:C7:34:LEU:CB	2.50	0.91
8:C5:56:ASN:HB2	8:C5:198:LEU:C	1.95	0.91
8:CC:44:LYS:HE3	10:CE:46:LYS:NZ	1.85	0.91
8:CH:56:ASN:HB2	8:CH:198:LEU:C	1.95	0.91
8:CM:44:LYS:HE3	10:CO:46:LYS:NZ	1.85	0.91
8:Cg:56:ASN:HB2	8:Cg:198:LEU:C	1.95	0.91
4:Aa:122:GLY:HA2	8:Cb:170:PHE:CZ	2.05	0.91
4:Ak:122:GLY:HA2	8:Cl:170:PHE:CZ	2.05	0.91
6:BS:35:VAL:HG21	6:BS:74:ALA:HB2	1.52	0.91
9:C1:110:VAL:HG13	9:C1:131:THR:HB	1.50	0.91
8:C5:56:ASN:HB2	8:C5:199:GLY:C	1.89	0.91
8:CC:56:ASN:HB2	8:CC:198:LEU:C	1.95	0.91
8:Cl:28:LEU:HD11	10:Cn:27:SER:HB3	1.48	0.91
8:Cq:44:LYS:HE3	10:Cs:46:LYS:NZ	1.85	0.91
9:Cr:13:ARG:HH12	10:Cs:14:ILE:HG13	0.79	0.91
8:Cv:11:GLN:CA	10:Cx:13:ILE:HD11	2.00	0.91
6:Bh:35:VAL:HG21	6:Bh:74:ALA:HB2	1.52	0.91
8:CM:28:LEU:HD11	10:CO:27:SER:HB3	1.48	0.91
8:CM:42:VAL:CG2	8:CM:46:THR:HB	2.01	0.91
9:CX:110:VAL:HG13	9:CX:131:THR:HB	1.50	0.91
8:Cl:56:ASN:HB2	8:Cl:198:LEU:C	1.95	0.91
8:Cq:28:LEU:CD1	10:Cs:27:SER:CB	2.29	0.91
8:Cq:42:VAL:CG2	8:Cq:46:THR:HB	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:35:VAL:HG21	3:A3:74:ALA:HB2	1.50	0.91
4:A4:122:GLY:HA2	8:C5:170:PHE:CZ	2.05	0.91
6:B6:35:VAL:HG21	6:B6:74:ALA:HB2	1.52	0.91
10:C7:197:PHE:HB3	10:C7:199:ARG:HB3	1.53	0.91
8:Cb:56:ASN:HB2	8:Cb:199:GLY:C	1.89	0.91
8:Cl:56:ASN:CB	8:Cl:199:GLY:HA3	2.00	0.91
4:AV:122:GLY:HA2	8:CW:170:PHE:CZ	2.05	0.91
6:BD:35:VAL:HG21	6:BD:74:ALA:HB2	1.52	0.91
6:BI:35:VAL:HG21	6:BI:74:ALA:HB2	1.53	0.91
6:Bc:35:VAL:HG21	6:Bc:74:ALA:HB2	1.52	0.91
9:CD:201:ASP:HB2	9:CD:204:ARG:HE	1.36	0.91
8:CH:28:LEU:HD11	10:CJ:27:SER:HB3	1.48	0.91
8:CH:56:ASN:CB	8:CH:199:GLY:HA3	2.00	0.91
9:CI:201:ASP:HB2	9:CI:204:ARG:HE	1.36	0.91
8:CR:44:LYS:HE3	10:CT:46:LYS:NZ	1.85	0.91
9:CX:20:LEU:HD23	10:CY:21:THR:HG21	1.51	0.91
10:Cd:197:PHE:HB3	10:Cd:199:ARG:HB3	1.53	0.91
9:Cm:201:ASP:HB2	9:Cm:204:ARG:HE	1.36	0.91
3:Ae:35:VAL:HG21	3:Ae:74:ALA:HB2	1.50	0.91
4:Az:122:GLY:HA2	8:C0:170:PHE:CZ	2.05	0.91
8:C0:56:ASN:HB2	8:C0:198:LEU:C	1.95	0.91
8:C5:42:VAL:CG2	8:C5:46:THR:HB	2.01	0.91
8:Cb:42:VAL:CG2	8:Cb:46:THR:HB	2.01	0.91
7:BQ:8:SER:H	7:BQ:11:ASP:HB2	1.36	0.91
6:Bm:35:VAL:HG21	6:Bm:74:ALA:HB2	1.53	0.91
7:Bu:8:SER:H	7:Bu:11:ASP:HB2	1.36	0.91
8:CC:11:GLN:CA	10:CE:13:ILE:HD11	2.00	0.91
8:CW:56:ASN:HB2	8:CW:198:LEU:C	1.95	0.91
8:Cg:11:GLN:CA	10:Ci:13:ILE:HD11	2.00	0.91
9:Ch:201:ASP:HB2	9:Ch:204:ARG:HE	1.36	0.91
8:Cv:44:LYS:HE3	10:Cx:46:LYS:NZ	1.85	0.91
3:AZ:35:VAL:HG21	3:AZ:74:ALA:HB2	1.50	0.91
4:Au:122:GLY:HA2	8:Cv:170:PHE:CZ	2.05	0.91
7:BV:8:SER:H	7:BV:11:ASP:HB2	1.36	0.91
9:C1:20:LEU:HD23	10:C2:21:THR:HG21	1.51	0.91
9:C6:14:LEU:HD11	10:C7:14:ILE:HA	1.53	0.91
8:CC:42:VAL:CG2	8:CC:46:THR:HB	2.01	0.91
8:CW:10:PHE:CB	10:CY:10:HIS:CD2	2.52	0.91
8:Cg:42:VAL:CG2	8:Cg:46:THR:HB	2.01	0.91
3:AA:35:VAL:HG21	3:AA:74:ALA:HB2	1.50	0.91
7:Bz:8:SER:H	7:Bz:11:ASP:HB2	1.36	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C0:10:PHE:CB	10:C2:10:HIS:CD2	2.52	0.91
9:CN:42:ASP:HA	10:CO:38:ARG:NH2	1.79	0.91
9:Cr:42:ASP:HA	10:Cs:38:ARG:NH2	1.79	0.91
8:Cv:42:VAL:CG2	8:Cv:46:THR:HB	2.01	0.91
4:AQ:122:GLY:HA2	8:CR:170:PHE:CZ	2.05	0.90
8:C0:18:ASN:CB	10:C2:16:LYS:HZ2	1.84	0.90
8:CR:42:VAL:CG2	8:CR:46:THR:HB	2.01	0.90
8:CW:18:ASN:CB	10:CY:16:LYS:HZ2	1.84	0.90
9:Cc:14:LEU:HD11	10:Cd:14:ILE:HA	1.53	0.90
10:Ci:197:PHE:HB3	10:Ci:199:ARG:HB3	1.53	0.90
6:BX:35:VAL:HG21	6:BX:74:ALA:HB2	1.53	0.90
8:CH:10:PHE:CE2	10:CJ:10:HIS:CD2	2.51	0.90
8:CH:42:VAL:CG2	8:CH:46:THR:HB	2.01	0.90
10:CJ:197:PHE:HB3	10:CJ:199:ARG:HB3	1.53	0.90
3:AF:35:VAL:HG21	3:AF:74:ALA:HB2	1.50	0.90
6:B1:35:VAL:HG21	6:B1:74:ALA:HB2	1.53	0.90
5:CB:84:LEU:HD12	5:CB:90:LEU:HD13	1.54	0.90
10:CE:57:LEU:C	10:CE:58:GLU:CG	2.40	0.90
10:CE:197:PHE:HB3	10:CE:199:ARG:HB3	1.53	0.90
8:CM:11:GLN:CA	10:CO:13:ILE:HD11	2.00	0.90
9:CN:31:LEU:CD1	10:CO:28:ILE:CA	2.49	0.90
9:CX:201:ASP:HB2	9:CX:204:ARG:HE	1.36	0.90
9:Cc:201:ASP:HB2	9:Cc:204:ARG:HE	1.36	0.90
5:Ck:84:LEU:HD12	5:Ck:90:LEU:HD13	1.54	0.90
8:Cl:42:VAL:CG2	8:Cl:46:THR:HB	2.01	0.90
10:Cn:197:PHE:HB3	10:Cn:199:ARG:HB3	1.53	0.90
9:Cr:31:LEU:CD1	10:Cs:28:ILE:CA	2.49	0.90
10:Cx:83:CYS:H	10:Cx:140:PRO:HG3	1.37	0.90
4:AQ:122:GLY:HA2	8:CR:170:PHE:CE2	2.07	0.90
4:Au:122:GLY:HA2	8:Cv:170:PHE:CE2	2.07	0.90
8:C0:42:VAL:CG2	8:C0:46:THR:CB	2.50	0.90
8:CC:35:TYR:HE1	10:CE:34:LEU:HB3	1.35	0.90
5:CG:84:LEU:HD12	5:CG:90:LEU:HD13	1.54	0.90
8:CH:42:VAL:CG2	8:CH:46:THR:CB	2.50	0.90
8:CR:10:PHE:CB	10:CT:10:HIS:HD2	1.83	0.90
10:CT:83:CYS:H	10:CT:140:PRO:HG3	1.37	0.90
8:CW:42:VAL:CG2	8:CW:46:THR:CB	2.50	0.90
10:CY:197:PHE:HB3	10:CY:199:ARG:HB3	1.53	0.90
9:Cc:31:LEU:CD1	10:Cd:28:ILE:CA	2.49	0.90
5:Cf:84:LEU:HD12	5:Cf:90:LEU:HD13	1.54	0.90
8:Cl:10:PHE:CE2	10:Cn:10:HIS:CD2	2.51	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cl:42:VAL:CG2	8:Cl:46:THR:CB	2.50	0.90
8:Cv:10:PHE:CB	10:Cx:10:HIS:HD2	1.83	0.90
3:Aj:35:VAL:HG21	3:Aj:74:ALA:HB2	1.50	0.90
7:BL:8:SER:H	7:BL:11:ASP:HB2	1.36	0.90
10:C2:197:PHE:HB3	10:C2:199:ARG:HB3	1.53	0.90
9:C6:20:LEU:HD23	10:C7:21:THR:HG21	1.51	0.90
9:C6:31:LEU:CD1	10:C7:28:ILE:CA	2.49	0.90
8:CM:35:TYR:CE1	10:CO:34:LEU:CB	2.50	0.90
8:CW:10:PHE:CB	10:CY:10:HIS:HD2	1.83	0.90
10:Ci:57:LEU:C	10:Ci:58:GLU:CG	2.40	0.90
8:Cq:11:GLN:CA	10:Cs:13:ILE:HD11	2.00	0.90
8:Cq:42:VAL:CG2	8:Cq:46:THR:CB	2.49	0.90
7:Ba:8:SER:H	7:Ba:11:ASP:HB2	1.36	0.90
7:Bp:8:SER:H	7:Bp:11:ASP:HB2	1.36	0.90
8:C0:10:PHE:CB	10:C2:10:HIS:HD2	1.83	0.90
9:C1:201:ASP:HB2	9:C1:204:ARG:HE	1.36	0.90
9:C6:201:ASP:HB2	9:C6:204:ARG:HE	1.36	0.90
8:CH:10:PHE:CB	10:CJ:10:HIS:HD2	1.83	0.90
8:CM:10:PHE:CB	10:CO:10:HIS:HD2	1.83	0.90
8:CW:42:VAL:CG2	8:CW:46:THR:HB	2.01	0.90
8:Cg:35:TYR:HE1	10:Ci:34:LEU:HB3	1.35	0.90
9:Cm:31:LEU:CD1	10:Cn:28:ILE:CA	2.49	0.90
8:Cq:35:TYR:CE1	10:Cs:34:LEU:CB	2.50	0.90
4:A4:122:GLY:HA2	8:C5:170:PHE:CE2	2.07	0.90
4:AV:122:GLY:HA2	8:CW:170:PHE:CE2	2.07	0.90
4:Aa:122:GLY:HA2	8:Cb:170:PHE:CE2	2.07	0.90
8:CH:43:ASP:C	8:CH:45:LYS:HB3	1.97	0.90
9:CI:31:LEU:CD1	10:CJ:28:ILE:CA	2.49	0.90
8:CM:42:VAL:CG2	8:CM:46:THR:CB	2.49	0.90
8:Cb:11:GLN:CA	10:Cd:13:ILE:HD11	2.00	0.90
8:Cl:43:ASP:C	8:Cl:45:LYS:HB3	1.97	0.90
3:AO:102:ILE:HD11	3:AO:149:ASP:CB	2.02	0.90
3:As:102:ILE:HD11	3:As:149:ASP:CB	2.02	0.90
4:Az:122:GLY:HA2	8:C0:170:PHE:CE2	2.07	0.90
7:B4:8:SER:H	7:B4:11:ASP:HB2	1.36	0.90
8:C0:42:VAL:CG2	8:C0:46:THR:HB	2.01	0.90
8:C5:11:GLN:CA	10:C7:13:ILE:HD11	2.00	0.90
9:CN:20:LEU:HD23	10:CO:21:THR:HG21	1.51	0.90
8:CR:10:PHE:CD1	10:CT:10:HIS:CD2	2.60	0.90
8:CR:42:VAL:CG2	8:CR:46:THR:CB	2.49	0.90
8:Cl:10:PHE:CB	10:Cn:10:HIS:HD2	1.83	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cq:10:PHE:CB	10:Cs:10:HIS:HD2	1.83	0.90
8:Cv:10:PHE:CD1	10:Cx:10:HIS:CD2	2.60	0.90
3:AJ:102:ILE:HD11	3:AJ:149:ASP:CB	2.02	0.90
3:An:102:ILE:HD11	3:An:149:ASP:CB	2.02	0.90
8:C0:11:GLN:HA	10:C2:13:ILE:CD1	2.02	0.90
8:CC:10:PHE:CB	10:CE:10:HIS:HD2	1.83	0.90
9:CI:17:ASN:ND2	10:CJ:17:LEU:CD1	2.35	0.90
10:CJ:57:LEU:C	10:CJ:58:GLU:CG	2.40	0.90
8:CM:10:PHE:CD1	10:CO:10:HIS:CD2	2.60	0.90
8:CM:43:ASP:C	8:CM:45:LYS:HB3	1.97	0.90
8:CW:11:GLN:HA	10:CY:13:ILE:CD1	2.02	0.90
9:CX:31:LEU:CD1	10:CY:28:ILE:CA	2.49	0.90
9:Cc:20:LEU:HD23	10:Cd:21:THR:HG21	1.51	0.90
9:Ch:17:ASN:ND2	10:Ci:17:LEU:CD1	2.35	0.90
9:Cm:17:ASN:ND2	10:Cn:17:LEU:CD1	2.35	0.90
8:Cq:43:ASP:C	8:Cq:45:LYS:HB3	1.97	0.90
9:Cr:20:LEU:HD23	10:Cs:21:THR:HG21	1.51	0.90
8:Cv:42:VAL:CG2	8:Cv:46:THR:CB	2.49	0.90
4:Ap:122:GLY:HA2	8:Cq:170:PHE:CE2	2.07	0.90
9:CD:17:ASN:ND2	10:CE:17:LEU:CD1	2.35	0.90
9:Ch:20:LEU:HD23	10:Ci:21:THR:HG21	1.51	0.90
8:Cl:155:LEU:HD12	8:Cl:161:THR:HB	1.54	0.90
9:Cm:46:PHE:CZ	10:Cn:47:ALA:HB3	2.07	0.90
10:Cn:57:LEU:C	10:Cn:58:GLU:CG	2.40	0.90
8:Cq:10:PHE:CD1	10:Cs:10:HIS:CD2	2.60	0.90
3:AT:102:ILE:HD11	3:AT:149:ASP:CB	2.02	0.89
7:BB:8:SER:H	7:BB:11:ASP:HB2	1.36	0.89
7:BG:8:SER:H	7:BG:11:ASP:HB2	1.36	0.89
9:C1:31:LEU:CD1	10:C2:28:ILE:CA	2.49	0.89
9:CD:20:LEU:HD23	10:CE:21:THR:HG21	1.51	0.89
8:CH:11:GLN:HA	10:CJ:13:ILE:CD1	2.02	0.89
9:CI:46:PHE:CZ	10:CJ:47:ALA:HB3	2.07	0.89
5:CL:84:LEU:HD12	5:CL:90:LEU:HD13	1.54	0.89
10:CO:197:PHE:HB3	10:CO:199:ARG:HB3	1.53	0.89
8:CR:14:VAL:HG21	10:CT:13:ILE:HG23	1.55	0.89
8:CR:28:LEU:HD11	10:CT:27:SER:HB3	1.48	0.89
8:Cg:10:PHE:CB	10:Ci:10:HIS:HD2	1.83	0.89
8:Cl:11:GLN:HA	10:Cn:13:ILE:CD1	2.02	0.89
9:Cr:201:ASP:HB2	9:Cr:204:ARG:HE	1.36	0.89
10:Cs:197:PHE:HB3	10:Cs:199:ARG:HB3	1.53	0.89
3:AE:35:VAL:HG21	3:AE:74:ALA:HB2	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AL:122:GLY:HA2	8:CM:170:PHE:CE2	2.07	0.89
3:Ax:102:ILE:HD11	3:Ax:149:ASP:CB	2.02	0.89
8:C0:155:LEU:HD12	8:C0:161:THR:HB	1.54	0.89
9:C1:137:ARG:HB2	9:C1:141:PHE:HB3	1.55	0.89
8:CH:155:LEU:HD12	8:CH:161:THR:HB	1.54	0.89
8:CR:43:ASP:C	8:CR:45:LYS:HB3	1.97	0.89
8:CW:155:LEU:HD12	8:CW:161:THR:HB	1.54	0.89
9:CX:137:ARG:HB2	9:CX:141:PHE:HB3	1.55	0.89
8:Cl:35:TYR:HE1	10:Cn:34:LEU:HB3	1.35	0.89
3:AJ:35:VAL:HG21	3:AJ:74:ALA:HB2	1.54	0.89
3:Ai:35:VAL:HG21	3:Ai:74:ALA:HB2	1.54	0.89
3:Ai:102:ILE:HD11	3:Ai:149:ASP:CB	2.02	0.89
3:An:35:VAL:HG21	3:An:74:ALA:HB2	1.54	0.89
9:C1:14:LEU:HD11	10:C2:14:ILE:HA	1.53	0.89
8:CW:43:ASP:C	8:CW:45:LYS:HB3	1.97	0.89
8:Cl:11:GLN:CA	10:Cn:13:ILE:HD11	2.00	0.89
5:Cp:84:LEU:HD12	5:Cp:90:LEU:HD13	1.54	0.89
8:Cv:43:ASP:C	8:Cv:45:LYS:HB3	1.97	0.89
4:Af:122:GLY:HA2	8:Cg:170:PHE:CE2	2.07	0.89
7:Bf:8:SER:H	7:Bf:11:ASP:HB2	1.36	0.89
7:Bk:8:SER:H	7:Bk:11:ASP:HB2	1.36	0.89
8:C0:43:ASP:C	8:C0:45:LYS:HB3	1.97	0.89
9:C6:17:ASN:ND2	10:C7:17:LEU:CD1	2.35	0.89
9:CD:14:LEU:HD11	10:CE:14:ILE:HA	1.53	0.89
9:CN:201:ASP:HB2	9:CN:204:ARG:HE	1.36	0.89
9:Cc:17:ASN:ND2	10:Cd:17:LEU:CD1	2.35	0.89
8:Cg:43:ASP:C	8:Cg:45:LYS:HB3	1.97	0.89
9:Ch:14:LEU:HD11	10:Ci:14:ILE:HA	1.53	0.89
8:Cv:28:LEU:HD11	10:Cx:27:SER:HB3	1.48	0.89
9:Cw:31:LEU:CD1	10:Cx:28:ILE:CA	2.49	0.89
4:AB:122:GLY:HA2	8:CC:170:PHE:CE2	2.07	0.89
3:AE:102:ILE:HD11	3:AE:149:ASP:CB	2.02	0.89
4:AG:122:GLY:HA2	8:CH:170:PHE:CE2	2.07	0.89
5:C4:84:LEU:HD12	5:C4:90:LEU:HD13	1.54	0.89
8:CC:43:ASP:C	8:CC:45:LYS:HB3	1.97	0.89
9:CD:137:ARG:HB2	9:CD:141:PHE:HB3	1.55	0.89
8:CH:11:GLN:CA	10:CJ:13:ILE:HD11	2.00	0.89
8:CH:35:TYR:HE1	10:CJ:34:LEU:HB3	1.35	0.89
8:CM:18:ASN:CB	10:CO:16:LYS:NZ	2.36	0.89
9:Ch:137:ARG:HB2	9:Ch:141:PHE:HB3	1.55	0.89
8:Cq:18:ASN:CB	10:Cs:16:LYS:NZ	2.36	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A7:35:VAL:HG21	3:A7:74:ALA:HB2	1.54	0.89
8:C5:42:VAL:CG2	8:C5:46:THR:CB	2.49	0.89
9:CD:31:LEU:CD1	10:CE:28:ILE:CA	2.49	0.89
9:CS:31:LEU:CD1	10:CT:28:ILE:CA	2.49	0.89
9:CS:201:ASP:HB2	9:CS:204:ARG:HE	1.36	0.89
9:CX:14:LEU:HD11	10:CY:14:ILE:HA	1.53	0.89
10:CY:83:CYS:H	10:CY:140:PRO:HG3	1.37	0.89
8:Cb:42:VAL:CG2	8:Cb:46:THR:CB	2.49	0.89
8:Cq:56:ASN:CB	8:Cq:199:GLY:HA3	2.00	0.89
9:Cr:17:ASN:ND2	10:Cs:17:LEU:CD1	2.35	0.89
8:Cv:18:ASN:CB	10:Cx:16:LYS:NZ	2.36	0.89
3:Ad:35:VAL:HG21	3:Ad:74:ALA:HB2	1.54	0.89
4:Ak:122:GLY:HA2	8:Cl:170:PHE:CE2	2.07	0.89
8:C5:10:PHE:CD1	10:C7:10:HIS:CD2	2.60	0.89
8:CC:42:VAL:CG2	8:CC:46:THR:CB	2.49	0.89
8:CM:56:ASN:CB	8:CM:199:GLY:HA3	2.00	0.89
9:CN:17:ASN:ND2	10:CO:17:LEU:CD1	2.35	0.89
10:CO:83:CYS:H	10:CO:140:PRO:HG3	1.37	0.89
8:CR:18:ASN:CB	10:CT:16:LYS:NZ	2.36	0.89
9:CS:42:ASP:HA	10:CT:38:ARG:NH2	1.79	0.89
5:Ca:84:LEU:HD12	5:Ca:90:LEU:HD13	1.54	0.89
8:Cg:42:VAL:CG2	8:Cg:46:THR:CB	2.49	0.89
9:Ch:31:LEU:CD1	10:Ci:28:ILE:CA	2.49	0.89
3:AY:102:ILE:HD11	3:AY:149:ASP:CB	2.02	0.89
10:C2:83:CYS:H	10:C2:140:PRO:HG3	1.37	0.89
10:C7:78:SER:CB	10:C7:81:PHE:HB2	2.03	0.89
9:CI:137:ARG:HB2	9:CI:141:PHE:HB3	1.55	0.89
8:Cb:10:PHE:CD1	10:Cd:10:HIS:CD2	2.60	0.89
10:Cd:78:SER:CB	10:Cd:81:PHE:HB2	2.03	0.89
8:Cl:14:VAL:HG21	10:Cn:13:ILE:HG23	1.55	0.89
8:Cl:18:ASN:CB	10:Cn:16:LYS:NZ	2.36	0.89
9:Cw:42:ASP:HA	10:Cx:38:ARG:NH2	1.79	0.89
8:CC:35:TYR:CE1	10:CE:34:LEU:CB	2.50	0.89
8:CH:14:VAL:HG21	10:CJ:13:ILE:HG23	1.55	0.89
8:CH:18:ASN:CB	10:CJ:16:LYS:NZ	2.36	0.89
5:CQ:84:LEU:HD12	5:CQ:90:LEU:HD13	1.54	0.89
9:Cm:137:ARG:HB2	9:Cm:141:PHE:HB3	1.55	0.89
9:Cw:137:ARG:HB2	9:Cw:141:PHE:HB3	1.55	0.89
9:Cw:201:ASP:HB2	9:Cw:204:ARG:HE	1.36	0.89
3:A2:102:ILE:HD11	3:A2:149:ASP:CB	2.02	0.89
3:AU:35:VAL:HG21	3:AU:74:ALA:HB2	1.50	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ay:35:VAL:HG21	3:Ay:74:ALA:HB2	1.50	0.89
8:C0:10:PHE:CD1	10:C2:10:HIS:CD2	2.60	0.89
8:C0:35:TYR:HH	10:C2:34:LEU:HD22	1.37	0.89
8:CC:10:PHE:CD1	10:CE:10:HIS:CD2	2.60	0.89
8:CH:56:ASN:HB2	8:CH:199:GLY:C	1.89	0.89
8:CW:10:PHE:CD1	10:CY:10:HIS:CD2	2.60	0.89
9:Cc:137:ARG:HB2	9:Cc:141:PHE:HB3	1.55	0.89
8:Cg:10:PHE:CD1	10:Ci:10:HIS:CD2	2.60	0.89
8:Cg:35:TYR:CE1	10:Ci:34:LEU:CB	2.50	0.89
10:Cs:83:CYS:H	10:Cs:140:PRO:HG3	1.37	0.89
5:Cu:84:LEU:HD12	5:Cu:90:LEU:HD13	1.54	0.89
8:Cv:56:ASN:CB	8:Cv:199:GLY:HA3	2.00	0.89
10:Cx:197:PHE:HB3	10:Cx:199:ARG:HB3	1.53	0.89
10:C7:204:ILE:HB	10:C7:214:ALA:HB3	1.54	0.88
8:CC:155:LEU:HD12	8:CC:161:THR:HB	1.54	0.88
9:CD:31:LEU:HD11	10:CE:28:ILE:CA	2.03	0.88
8:CH:10:PHE:CD1	10:CJ:10:HIS:CD2	2.60	0.88
8:CR:11:GLN:HA	10:CT:13:ILE:CD1	2.03	0.88
9:CS:14:LEU:HD11	10:CT:14:ILE:HA	1.53	0.88
9:CS:137:ARG:HB2	9:CS:141:PHE:HB3	1.55	0.88
9:Cm:20:LEU:HD23	10:Cn:21:THR:HG21	1.51	0.88
3:A7:102:ILE:HD11	3:A7:149:ASP:CB	2.02	0.88
8:C5:42:VAL:HG23	8:C5:46:THR:OG1	1.73	0.88
9:C6:137:ARG:HB2	9:C6:141:PHE:HB3	1.55	0.88
10:CT:197:PHE:HB3	10:CT:199:ARG:HB3	1.53	0.88
9:Cc:31:LEU:HD11	10:Cd:28:ILE:CA	2.03	0.88
8:Cg:155:LEU:HD12	8:Cg:161:THR:HB	1.54	0.88
9:Ch:31:LEU:HD11	10:Ci:28:ILE:CA	2.03	0.88
8:Cl:10:PHE:CD1	10:Cn:10:HIS:CD2	2.60	0.88
8:Cv:11:GLN:HA	10:Cx:13:ILE:CD1	2.03	0.88
9:C6:31:LEU:HD11	10:C7:28:ILE:CA	2.03	0.88
9:CI:20:LEU:HD23	10:CJ:21:THR:HG21	1.51	0.88
8:CR:56:ASN:CB	8:CR:199:GLY:HA3	2.00	0.88
10:Cd:204:ILE:HB	10:Cd:214:ALA:HB3	1.54	0.88
9:Cr:137:ARG:HB2	9:Cr:141:PHE:HB3	1.55	0.88
3:Ad:102:ILE:HD11	3:Ad:149:ASP:CB	2.02	0.88
8:C0:18:ASN:CB	10:C2:16:LYS:NZ	2.36	0.88
8:C5:10:PHE:CB	10:C7:10:HIS:HD2	1.83	0.88
8:CR:23:TYR:N	10:CT:20:ARG:NH2	2.21	0.88
8:Cb:42:VAL:HG23	8:Cb:46:THR:OG1	1.73	0.88
10:Ci:78:SER:CB	10:Ci:81:PHE:HB2	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cl:23:TYR:N	10:Cn:20:ARG:NH2	2.21	0.88
8:Cl:56:ASN:HB2	8:Cl:199:GLY:C	1.89	0.88
8:Cv:23:TYR:N	10:Cx:20:ARG:NH2	2.21	0.88
5:Cz:84:LEU:HD12	5:Cz:90:LEU:HD13	1.54	0.88
9:CD:46:PHE:CZ	10:CE:47:ALA:HB3	2.07	0.88
8:CH:23:TYR:N	10:CJ:20:ARG:NH2	2.21	0.88
9:CN:137:ARG:HB2	9:CN:141:PHE:HB3	1.55	0.88
5:CV:84:LEU:HD12	5:CV:90:LEU:HD13	1.54	0.88
8:CW:18:ASN:CB	10:CY:16:LYS:NZ	2.36	0.88
8:CW:42:VAL:HG23	8:CW:46:THR:OG1	1.74	0.88
8:Cb:10:PHE:CB	10:Cd:10:HIS:HD2	1.83	0.88
8:Cv:42:VAL:HG23	8:Cv:46:THR:OG1	1.73	0.88
9:Cw:14:LEU:HD11	10:Cx:14:ILE:HA	1.53	0.88
8:C0:14:VAL:HG21	10:C2:13:ILE:HG23	1.55	0.88
10:C2:204:ILE:HB	10:C2:214:ALA:HB3	1.54	0.88
8:C5:43:ASP:C	8:C5:45:LYS:HB3	1.97	0.88
10:CE:78:SER:CB	10:CE:81:PHE:HB2	2.03	0.88
10:CE:204:ILE:HB	10:CE:214:ALA:HB3	1.54	0.88
9:CN:14:LEU:HD11	10:CO:14:ILE:HA	1.53	0.88
8:CR:42:VAL:HG23	8:CR:46:THR:OG1	1.73	0.88
8:CR:155:LEU:HD12	8:CR:161:THR:HB	1.54	0.88
9:Ch:46:PHE:CZ	10:Ci:47:ALA:HB3	2.07	0.88
8:Cq:155:LEU:HD12	8:Cq:161:THR:HB	1.54	0.88
9:Cw:17:ASN:ND2	10:Cx:17:LEU:CD1	2.35	0.88
3:A2:35:VAL:HG21	3:A2:74:ALA:HB2	1.54	0.88
3:AY:35:VAL:HG21	3:AY:74:ALA:HB2	1.54	0.88
8:C0:11:GLN:CA	10:C2:13:ILE:HD11	2.00	0.88
8:C0:42:VAL:HG23	8:C0:46:THR:OG1	1.74	0.88
8:CC:11:GLN:HA	10:CE:13:ILE:CD1	2.03	0.88
8:CH:35:TYR:CE1	10:CJ:34:LEU:CB	2.50	0.88
10:CO:204:ILE:HB	10:CO:214:ALA:HB3	1.54	0.88
9:CS:17:ASN:ND2	10:CT:17:LEU:CD1	2.35	0.88
10:Cd:83:CYS:H	10:Cd:140:PRO:HG3	1.37	0.88
8:Cg:23:TYR:N	10:Ci:20:ARG:NH2	2.21	0.88
10:Cs:204:ILE:HB	10:Cs:214:ALA:HB3	1.54	0.88
8:CC:23:TYR:N	10:CE:20:ARG:NH2	2.21	0.88
8:CH:42:VAL:HG23	8:CH:46:THR:OG1	1.74	0.88
9:CI:31:LEU:HD11	10:CJ:28:ILE:CA	2.03	0.88
8:CW:14:VAL:HG21	10:CY:13:ILE:HG23	1.55	0.88
10:CY:204:ILE:HB	10:CY:214:ALA:HB3	1.54	0.88
8:Cb:43:ASP:C	8:Cb:45:LYS:HB3	1.97	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cc:20:LEU:CD2	10:Cd:21:THR:CG2	2.51	0.88
10:Ci:204:ILE:HB	10:Ci:214:ALA:HB3	1.54	0.88
9:Cr:14:LEU:HD11	10:Cs:14:ILE:HA	1.53	0.88
3:As:35:VAL:HG21	3:As:74:ALA:HB2	1.54	0.88
10:C7:83:CYS:H	10:C7:140:PRO:HG3	1.37	0.88
8:CC:56:ASN:HB2	8:CC:199:GLY:C	1.89	0.88
9:CD:20:LEU:CD2	10:CE:21:THR:CG2	2.51	0.88
10:CJ:78:SER:CB	10:CJ:81:PHE:HB2	2.03	0.88
8:CM:155:LEU:HD12	8:CM:161:THR:HB	1.54	0.88
8:CW:11:GLN:CA	10:CY:13:ILE:HD11	2.00	0.88
9:CX:17:ASN:ND2	10:CY:17:LEU:CD1	2.35	0.88
8:Cg:11:GLN:HA	10:Ci:13:ILE:CD1	2.03	0.88
8:Cg:56:ASN:HB2	8:Cg:199:GLY:C	1.89	0.88
8:Cl:35:TYR:CE1	10:Cn:34:LEU:CB	2.50	0.88
9:Cm:31:LEU:HD11	10:Cn:28:ILE:CA	2.03	0.88
8:Cv:155:LEU:HD12	8:Cv:161:THR:HB	1.54	0.88
9:C1:17:ASN:ND2	10:C2:17:LEU:CD1	2.35	0.88
9:C1:42:ASP:HA	10:C2:38:ARG:NH2	1.79	0.88
9:C6:20:LEU:CD2	10:C7:21:THR:CG2	2.51	0.88
8:CC:18:ASN:CB	10:CE:16:LYS:NZ	2.36	0.88
8:CC:42:VAL:HG23	8:CC:46:THR:OG1	1.73	0.88
9:CI:14:LEU:HD11	10:CJ:14:ILE:HA	1.53	0.88
9:CI:31:LEU:CD1	10:CJ:28:ILE:CG2	2.37	0.88
10:CT:78:SER:CB	10:CT:81:PHE:HB2	2.03	0.88
9:CX:31:LEU:HD11	10:CY:28:ILE:CA	2.03	0.88
9:CX:42:ASP:HA	10:CY:38:ARG:NH2	1.79	0.88
8:Cg:18:ASN:CB	10:Ci:16:LYS:NZ	2.36	0.88
9:Ch:20:LEU:CD2	10:Ci:21:THR:CG2	2.51	0.88
8:Cl:42:VAL:HG23	8:Cl:46:THR:OG1	1.74	0.88
10:Cx:78:SER:CB	10:Cx:81:PHE:HB2	2.03	0.88
3:AO:35:VAL:HG21	3:AO:74:ALA:HB2	1.54	0.87
1:AW:134:LEU:HD22	6:BX:6:CYS:HB3	1.56	0.87
8:CM:42:VAL:HG23	8:CM:46:THR:OG1	1.73	0.87
10:CO:78:SER:CB	10:CO:81:PHE:HB2	2.03	0.87
9:Cm:14:LEU:HD11	10:Cn:14:ILE:HA	1.53	0.87
10:Cn:78:SER:CB	10:Cn:81:PHE:HB2	2.03	0.87
8:Cq:42:VAL:HG23	8:Cq:46:THR:OG1	1.73	0.87
10:Cs:78:SER:CB	10:Cs:81:PHE:HB2	2.03	0.87
9:C1:31:LEU:HD11	10:C2:28:ILE:CA	2.03	0.87
9:C1:46:PHE:CZ	10:C2:47:ALA:HB3	2.07	0.87
8:C5:155:LEU:HD12	8:C5:161:THR:HB	1.54	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CR:56:ASN:HA	8:CR:199:GLY:HA3	1.56	0.87
8:CW:23:TYR:N	10:CY:20:ARG:NH2	2.21	0.87
10:CY:78:SER:CB	10:CY:81:PHE:HB2	2.03	0.87
8:Cg:42:VAL:HG23	8:Cg:46:THR:OG1	1.73	0.87
8:Cq:18:ASN:CB	10:Cs:16:LYS:HZ2	1.86	0.87
1:A0:134:LEU:HD22	6:B1:6:CYS:HB3	1.56	0.87
1:AR:134:LEU:HD22	6:BS:6:CYS:HB3	1.56	0.87
1:Av:134:LEU:HD22	6:Bw:6:CYS:HB3	1.56	0.87
9:CI:42:ASP:HA	10:CJ:38:ARG:NH2	1.79	0.87
8:CM:18:ASN:CB	10:CO:16:LYS:HZ2	1.86	0.87
8:Cv:56:ASN:HA	8:Cv:199:GLY:HA3	1.56	0.87
9:Cw:31:LEU:HD11	10:Cx:28:ILE:CA	2.03	0.87
8:C0:23:TYR:N	10:C2:20:ARG:NH2	2.21	0.87
8:C0:56:ASN:CB	8:C0:199:GLY:HA3	2.00	0.87
10:C2:78:SER:CB	10:C2:81:PHE:HB2	2.03	0.87
8:C5:18:ASN:CB	10:C7:16:LYS:NZ	2.36	0.87
8:CW:35:TYR:HE1	10:CY:34:LEU:HB3	1.35	0.87
9:CX:46:PHE:CZ	10:CY:47:ALA:HB3	2.07	0.87
8:Cb:155:LEU:HD12	8:Cb:161:THR:HB	1.54	0.87
10:Ci:83:CYS:H	10:Ci:140:PRO:HG3	1.37	0.87
9:Cm:31:LEU:CD1	10:Cn:28:ILE:CG2	2.37	0.87
9:Cm:42:ASP:HA	10:Cn:38:ARG:NH2	1.79	0.87
10:CE:83:CYS:H	10:CE:140:PRO:HG3	1.37	0.87
9:CS:31:LEU:HD11	10:CT:28:ILE:CA	2.03	0.87
8:Cb:18:ASN:CB	10:Cd:16:LYS:NZ	2.36	0.87
8:C0:35:TYR:HE1	10:C2:34:LEU:HB3	1.35	0.87
8:C5:18:ASN:CB	10:C7:16:LYS:HZ2	1.86	0.87
8:C5:23:TYR:N	10:C7:20:ARG:NH2	2.21	0.87
8:C5:56:ASN:CB	8:C5:199:GLY:HA3	2.00	0.87
8:C5:161:THR:HG22	8:C5:162:VAL:H	1.39	0.87
8:CH:161:THR:HG22	8:CH:162:VAL:H	1.39	0.87
8:Cl:161:THR:HG22	8:Cl:162:VAL:H	1.39	0.87
6:BD:102:ILE:HG12	6:BD:150:LEU:HG	1.57	0.87
6:Bh:102:ILE:HG12	6:Bh:150:LEU:HG	1.57	0.87
6:Bw:102:ILE:HG12	6:Bw:150:LEU:HG	1.57	0.87
8:CW:56:ASN:CB	8:CW:199:GLY:HA3	2.00	0.87
8:Cb:23:TYR:N	10:Cd:20:ARG:NH2	2.21	0.87
8:Cb:35:TYR:HE1	10:Cd:34:LEU:HB3	1.36	0.87
6:BS:102:ILE:HG12	6:BS:150:LEU:HG	1.57	0.87
8:CH:18:ASN:CB	10:CJ:16:LYS:HZ2	1.86	0.87
9:CI:20:LEU:CD2	10:CJ:21:THR:CG2	2.51	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:204:ILE:HB	10:CJ:214:ALA:HB3	1.54	0.87
8:Cb:161:THR:HG22	8:Cb:162:VAL:H	1.39	0.87
9:Cm:20:LEU:CD2	10:Cn:21:THR:CG2	2.51	0.87
8:Cq:23:TYR:N	10:Cs:20:ARG:NH2	2.21	0.87
8:Cq:161:THR:HG22	8:Cq:162:VAL:H	1.39	0.87
9:Cr:31:LEU:HD11	10:Cs:28:ILE:CA	2.03	0.87
9:Cw:46:PHE:CZ	10:Cx:47:ALA:HB3	2.07	0.87
3:A3:145:ARG:HD2	3:A3:148:LYS:HD2	1.57	0.87
1:A5:134:LEU:HD22	6:B6:6:CYS:HB3	1.56	0.87
3:AZ:145:ARG:HD2	3:AZ:148:LYS:HD2	1.57	0.87
8:CM:11:GLN:HA	10:CO:13:ILE:CD1	2.03	0.87
8:CM:56:ASN:HA	8:CM:199:GLY:HA3	1.57	0.87
8:CM:161:THR:HG22	8:CM:162:VAL:H	1.39	0.87
9:CS:46:PHE:CZ	10:CT:47:ALA:HB3	2.07	0.87
8:Cb:56:ASN:CB	8:Cb:199:GLY:HA3	2.00	0.87
10:Cn:204:ILE:HB	10:Cn:214:ALA:HB3	1.54	0.87
3:AT:35:VAL:HG21	3:AT:74:ALA:HB2	1.54	0.86
3:AU:145:ARG:HD2	3:AU:148:LYS:HD2	1.57	0.86
1:Ab:134:LEU:HD22	6:Bc:6:CYS:HB3	1.56	0.86
8:C0:56:ASN:HA	8:C0:199:GLY:HA3	1.57	0.86
8:C5:35:TYR:HE1	10:C7:34:LEU:HB3	1.36	0.86
8:CM:23:TYR:N	10:CO:20:ARG:NH2	2.21	0.86
9:CN:31:LEU:HD11	10:CO:28:ILE:CA	2.03	0.86
9:CX:20:LEU:CD2	10:CY:21:THR:CG2	2.51	0.86
8:Cv:18:ASN:CB	10:Cx:16:LYS:HZ2	1.86	0.86
3:Ax:35:VAL:HG21	3:Ax:74:ALA:HB2	1.54	0.86
10:CJ:83:CYS:H	10:CJ:140:PRO:HG3	1.37	0.86
8:CR:18:ASN:CB	10:CT:16:LYS:HZ2	1.86	0.86
8:CW:56:ASN:HA	8:CW:199:GLY:HA3	1.57	0.86
8:Cq:56:ASN:HA	8:Cq:199:GLY:HA3	1.57	0.86
9:Cw:14:LEU:HD11	10:Cx:14:ILE:HG22	1.29	0.86
3:Ay:145:ARG:HD2	3:Ay:148:LYS:HD2	1.57	0.86
6:BN:102:ILE:HG12	6:BN:150:LEU:HG	1.57	0.86
9:C1:20:LEU:CD2	10:C2:21:THR:CG2	2.51	0.86
10:Cn:83:CYS:H	10:Cn:140:PRO:HG3	1.37	0.86
8:Cq:11:GLN:HA	10:Cs:13:ILE:CD1	2.03	0.86
3:AK:145:ARG:HD2	3:AK:148:LYS:HD2	1.57	0.86
3:Ao:145:ARG:HD2	3:Ao:148:LYS:HD2	1.57	0.86
8:CC:117:TRP:CD1	8:CC:121:GLU:HB2	2.10	0.86
8:Cg:117:TRP:CD1	8:Cg:121:GLU:HB2	2.10	0.86
4:AL:1:LYS:HD2	4:AL:131:ASP:CG	2.01	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ap:1:LYS:HD2	4:Ap:131:ASP:CG	2.01	0.86
6:Br:102:ILE:HG12	6:Br:150:LEU:HG	1.57	0.86
8:CM:198:LEU:HD13	8:CM:203:HIS:HB2	1.57	0.86
10:CT:204:ILE:HB	10:CT:214:ALA:HB3	1.54	0.86
8:Cb:117:TRP:CD1	8:Cb:121:GLU:HB2	2.10	0.86
10:Cx:204:ILE:HB	10:Cx:214:ALA:HB3	1.54	0.86
4:AG:1:LYS:HD2	4:AG:131:ASP:CG	2.01	0.86
4:Ak:1:LYS:HD2	4:Ak:131:ASP:CG	2.01	0.86
8:C5:117:TRP:CD1	8:C5:121:GLU:HB2	2.10	0.86
9:CD:31:LEU:CD1	10:CE:28:ILE:CG2	2.37	0.86
10:CO:57:LEU:C	10:CO:58:GLU:CG	2.40	0.86
8:Cq:198:LEU:HD13	8:Cq:203:HIS:HB2	1.57	0.86
3:AF:145:ARG:HD2	3:AF:148:LYS:HD2	1.57	0.86
8:CC:161:THR:HG22	8:CC:162:VAL:H	1.39	0.86
8:CR:198:LEU:HD13	8:CR:203:HIS:HB2	1.57	0.86
8:Cg:10:PHE:CE2	10:Ci:10:HIS:CB	2.59	0.86
8:Cg:161:THR:HG22	8:Cg:162:VAL:H	1.39	0.86
3:Aj:145:ARG:HD2	3:Aj:148:LYS:HD2	1.57	0.86
6:Bm:102:ILE:HG12	6:Bm:150:LEU:HG	1.57	0.86
8:CC:10:PHE:CE2	10:CE:10:HIS:CB	2.59	0.86
9:Cc:46:PHE:CZ	10:Cd:47:ALA:HB3	2.07	0.86
4:Af:1:LYS:HD2	4:Af:131:ASP:CG	2.01	0.86
8:CH:117:TRP:CD1	8:CH:121:GLU:HB2	2.10	0.86
9:CS:14:LEU:HD11	10:CT:14:ILE:HG22	1.29	0.86
8:CW:117:TRP:CD1	8:CW:121:GLU:HB2	2.10	0.86
8:Cl:117:TRP:CD1	8:Cl:121:GLU:HB2	2.10	0.86
8:Cv:198:LEU:HD13	8:Cv:203:HIS:HB2	1.57	0.86
4:AB:1:LYS:HD2	4:AB:131:ASP:CG	2.01	0.85
4:Aa:1:LYS:HD2	4:Aa:131:ASP:CG	2.01	0.85
6:BI:102:ILE:HG12	6:BI:150:LEU:HG	1.57	0.85
8:C0:117:TRP:CD1	8:C0:121:GLU:HB2	2.10	0.85
8:CR:35:TYR:HE1	10:CT:34:LEU:HB3	1.35	0.85
9:Ch:31:LEU:CD1	10:Ci:28:ILE:CG2	2.37	0.85
8:Cq:176:ARG:O	8:Cq:196:PHE:HB2	1.76	0.85
8:Cv:117:TRP:CD1	8:Cv:121:GLU:HB2	2.10	0.85
4:A4:1:LYS:HD2	4:A4:131:ASP:CG	2.01	0.85
3:Ae:145:ARG:HD2	3:Ae:148:LYS:HD2	1.57	0.85
9:C6:46:PHE:CZ	10:C7:47:ALA:HB3	2.07	0.85
9:CI:24:LEU:HD13	10:CJ:21:THR:HG23	1.57	0.85
8:CM:176:ARG:O	8:CM:196:PHE:HB2	1.76	0.85
8:CR:117:TRP:CD1	8:CR:121:GLU:HB2	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:176:ARG:O	8:Cg:196:PHE:HB2	1.76	0.85
8:Cl:18:ASN:CB	10:Cn:16:LYS:HZ2	1.88	0.85
8:Cq:117:TRP:CD1	8:Cq:121:GLU:HB2	2.10	0.85
3:AE:27:PHE:CE2	7:BB:27:GLU:HG3	2.12	0.85
3:Ai:27:PHE:CE2	7:Bf:27:GLU:HG3	2.12	0.85
8:CC:176:ARG:O	8:CC:196:PHE:HB2	1.76	0.85
8:CH:10:PHE:CE2	10:CJ:10:HIS:CB	2.59	0.85
8:CH:56:ASN:HA	8:CH:199:GLY:HA3	1.57	0.85
8:CM:117:TRP:CD1	8:CM:121:GLU:HB2	2.10	0.85
8:Cb:11:GLN:HA	10:Cd:13:ILE:CD1	2.03	0.85
8:Cg:10:PHE:CG	10:Ci:10:HIS:HD2	1.58	0.85
8:Cl:10:PHE:CE2	10:Cn:10:HIS:CB	2.59	0.85
10:Cs:57:LEU:C	10:Cs:58:GLU:CG	2.40	0.85
8:Cv:161:THR:HG22	8:Cv:162:VAL:H	1.39	0.85
4:Au:1:LYS:HD2	4:Au:131:ASP:CG	2.01	0.85
8:CH:10:PHE:HD2	10:CJ:10:HIS:HA	1.42	0.85
9:CN:24:LEU:HD13	10:CO:21:THR:HG23	1.57	0.85
8:CR:161:THR:HG22	8:CR:162:VAL:H	1.39	0.85
8:Cg:56:ASN:CB	8:Cg:199:GLY:HA3	2.00	0.85
9:Ch:24:LEU:CD1	10:Ci:21:THR:CG2	2.55	0.85
9:Cm:24:LEU:HD13	10:Cn:21:THR:HG23	1.57	0.85
3:AA:145:ARG:HD2	3:AA:148:LYS:HD2	1.57	0.85
6:Bc:102:ILE:HG12	6:Bc:150:LEU:HG	1.57	0.85
8:C5:10:PHE:CE2	10:C7:10:HIS:CB	2.59	0.85
8:C5:56:ASN:HA	8:C5:199:GLY:HA3	1.57	0.85
9:C6:24:LEU:CD1	10:C7:21:THR:CG2	2.55	0.85
9:CD:24:LEU:CD1	10:CE:21:THR:CG2	2.55	0.85
9:Cc:24:LEU:CD1	10:Cd:21:THR:CG2	2.55	0.85
9:Cr:24:LEU:HD13	10:Cs:21:THR:HG23	1.57	0.85
4:AQ:1:LYS:HD2	4:AQ:131:ASP:CG	2.01	0.85
8:C5:11:GLN:HA	10:C7:13:ILE:CD1	2.03	0.85
8:C5:14:VAL:HG21	10:C7:13:ILE:HG23	1.54	0.85
8:Cb:10:PHE:CE2	10:Cd:10:HIS:CB	2.59	0.85
8:Cl:10:PHE:HD2	10:Cn:10:HIS:HA	1.42	0.85
8:Cl:56:ASN:HA	8:Cl:199:GLY:HA3	1.57	0.85
8:Cq:14:VAL:HG21	10:Cs:13:ILE:HG23	1.54	0.85
8:Cq:35:TYR:HH	10:Cs:34:LEU:HD22	1.39	0.85
8:Cv:35:TYR:HE1	10:Cx:34:LEU:HB3	1.35	0.85
8:CC:10:PHE:CG	10:CE:10:HIS:HD2	1.58	0.85
8:CH:198:LEU:HD13	8:CH:203:HIS:HB2	1.57	0.85
8:Cb:56:ASN:HA	8:Cb:199:GLY:HA3	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cq:10:PHE:HD2	10:Cs:10:HIS:HA	1.41	0.85
1:AM:134:LEU:HD22	6:BN:6:CYS:HB3	1.56	0.85
4:AV:1:LYS:HD2	4:AV:131:ASP:CG	2.01	0.85
1:Aq:134:LEU:HD22	6:Br:6:CYS:HB3	1.56	0.85
6:B6:102:ILE:HG12	6:B6:150:LEU:HG	1.57	0.85
8:CC:56:ASN:CB	8:CC:199:GLY:HA3	2.00	0.85
8:CH:176:ARG:O	8:CH:196:PHE:HB2	1.76	0.85
8:CR:56:ASN:HB2	8:CR:200:ASP:N	1.90	0.85
8:Cl:176:ARG:O	8:Cl:196:PHE:HB2	1.76	0.85
3:A7:27:PHE:CE2	7:B4:27:GLU:HG3	2.12	0.85
3:AO:27:PHE:CE2	7:BL:27:GLU:HG3	2.12	0.85
3:Ad:27:PHE:CE2	7:Ba:27:GLU:HG3	2.12	0.85
3:Ax:27:PHE:CE2	7:Bu:27:GLU:HG3	2.12	0.85
8:CM:10:PHE:HD2	10:CO:10:HIS:HA	1.41	0.85
9:CS:41:ILE:C	10:CT:38:ARG:CZ	2.50	0.85
8:Cl:198:LEU:HD13	8:Cl:203:HIS:HB2	1.57	0.85
8:Cv:176:ARG:O	8:Cv:196:PHE:HB2	1.76	0.85
9:Cw:41:ILE:C	10:Cx:38:ARG:CZ	2.50	0.85
1:AC:134:LEU:HD22	6:BD:6:CYS:HB3	1.56	0.85
1:AH:134:LEU:HD22	6:BI:6:CYS:HB3	1.56	0.85
3:AT:27:PHE:CE2	7:BQ:27:GLU:HG3	2.12	0.85
3:As:27:PHE:CE2	7:Bp:27:GLU:HG3	2.12	0.85
4:Az:1:LYS:HD2	4:Az:131:ASP:CG	2.01	0.85
8:CM:14:VAL:HG21	10:CO:13:ILE:HG23	1.54	0.85
9:CS:20:LEU:CD2	10:CT:21:THR:CG2	2.51	0.85
8:Cb:14:VAL:HG21	10:Cd:13:ILE:HG23	1.54	0.85
8:Cg:56:ASN:HA	8:Cg:199:GLY:HA3	1.56	0.85
8:CR:176:ARG:O	8:CR:196:PHE:HB2	1.76	0.84
9:CX:41:ILE:C	10:CY:38:ARG:CZ	2.50	0.84
8:Cv:56:ASN:HB2	8:Cv:200:ASP:N	1.90	0.84
3:A2:27:PHE:CE2	7:Bz:27:GLU:HG3	2.12	0.84
1:Ag:134:LEU:HD22	6:Bh:6:CYS:HB3	1.56	0.84
6:B1:102:ILE:HG12	6:B1:150:LEU:HG	1.57	0.84
9:CN:24:LEU:CD1	10:CO:21:THR:CG2	2.55	0.84
9:CN:24:LEU:HD11	10:CO:21:THR:HG22	1.60	0.84
9:CS:24:LEU:CD1	10:CT:21:THR:CG2	2.55	0.84
8:CW:10:PHE:CE2	10:CY:10:HIS:CB	2.59	0.84
9:Cr:24:LEU:CD1	10:Cs:21:THR:CG2	2.55	0.84
9:Cr:24:LEU:HD11	10:Cs:21:THR:HG22	1.60	0.84
3:AJ:27:PHE:CE2	7:BG:27:GLU:HG3	2.12	0.84
3:AP:145:ARG:HD2	3:AP:148:LYS:HD2	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Al:134:LEU:HD22	6:Bm:6:CYS:HB3	1.56	0.84
9:C1:41:ILE:C	10:C2:38:ARG:CZ	2.50	0.84
8:CC:56:ASN:HA	8:CC:199:GLY:HA3	1.56	0.84
8:CM:35:TYR:HH	10:CO:34:LEU:HD22	1.40	0.84
8:CW:198:LEU:HD13	8:CW:203:HIS:HB2	1.57	0.84
8:Cb:18:ASN:CB	10:Cd:16:LYS:HZ2	1.86	0.84
8:Cb:176:ARG:O	8:Cb:196:PHE:HB2	1.76	0.84
9:Cw:20:LEU:CD2	10:Cx:21:THR:CG2	2.51	0.84
9:Cw:24:LEU:CD1	10:Cx:21:THR:CG2	2.55	0.84
3:AY:27:PHE:CE2	7:BV:27:GLU:HG3	2.12	0.84
3:An:27:PHE:CE2	7:Bk:27:GLU:HG3	2.12	0.84
3:At:145:ARG:HD2	3:At:148:LYS:HD2	1.57	0.84
8:C0:10:PHE:CE2	10:C2:10:HIS:CB	2.59	0.84
8:C5:176:ARG:O	8:C5:196:PHE:HB2	1.76	0.84
9:CI:24:LEU:HD11	10:CJ:21:THR:HG22	1.60	0.84
9:Cm:24:LEU:CD1	10:Cn:21:THR:CG2	2.55	0.84
8:Cq:10:PHE:CE2	10:Cs:10:HIS:CB	2.59	0.84
6:BX:102:ILE:HG12	6:BX:150:LEU:HG	1.57	0.84
8:C0:161:THR:HG22	8:C0:162:VAL:H	1.39	0.84
9:C1:24:LEU:HD13	10:C2:21:THR:HG23	1.57	0.84
9:CI:24:LEU:CD1	10:CJ:21:THR:CG2	2.55	0.84
8:CM:10:PHE:CE2	10:CO:10:HIS:CB	2.59	0.84
9:CX:24:LEU:CD1	10:CY:21:THR:CG2	2.55	0.84
9:Cc:41:ILE:C	10:Cd:38:ARG:CZ	2.50	0.84
9:Cm:24:LEU:HD11	10:Cn:21:THR:HG22	1.60	0.84
8:C0:56:ASN:HB2	8:C0:199:GLY:N	1.93	0.84
9:C1:24:LEU:CD1	10:C2:21:THR:CG2	2.55	0.84
10:CE:78:SER:HB3	10:CE:81:PHE:CB	2.08	0.84
9:CS:31:LEU:CD1	10:CT:28:ILE:CG2	2.37	0.84
8:CW:56:ASN:HB2	8:CW:199:GLY:N	1.93	0.84
10:CI:78:SER:HB3	10:CI:81:PHE:CB	2.08	0.84
4:AQ:25:ASP:HA	8:CR:78:HIS:CD2	2.13	0.84
4:Au:25:ASP:HA	8:Cv:78:HIS:CD2	2.13	0.84
8:C0:198:LEU:HD13	8:C0:203:HIS:HB2	1.57	0.84
9:Cw:17:ASN:ND2	10:Cx:17:LEU:HD13	1.93	0.84
8:C5:14:VAL:CG2	10:C7:13:ILE:HG23	2.06	0.84
8:C5:56:ASN:HB2	8:C5:199:GLY:N	1.93	0.84
9:C6:41:ILE:C	10:C7:38:ARG:CZ	2.50	0.84
9:CN:46:PHE:CZ	10:CO:47:ALA:HB3	2.07	0.84
8:CR:10:PHE:HD2	10:CT:10:HIS:HA	1.42	0.84
9:CS:17:ASN:ND2	10:CT:17:LEU:HD13	1.93	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CX:24:LEU:HD13	10:CY:21:THR:HG23	1.57	0.84
8:Cv:10:PHE:HD2	10:Cx:10:HIS:HA	1.42	0.84
4:Ap:25:ASP:HA	8:Cq:78:HIS:CD2	2.13	0.84
9:CN:17:ASN:ND2	10:CO:17:LEU:HD13	1.93	0.84
9:CS:27:ILE:HG22	10:CT:28:ILE:CD1	2.05	0.84
8:CW:161:THR:HG22	8:CW:162:VAL:H	1.39	0.84
8:Cb:56:ASN:HB2	8:Cb:199:GLY:N	1.93	0.84
9:Cr:17:ASN:ND2	10:Cs:17:LEU:HD13	1.93	0.84
4:AL:25:ASP:HA	8:CM:78:HIS:CD2	2.13	0.84
9:C6:24:LEU:HD13	10:C7:21:THR:HG23	1.57	0.84
8:CH:56:ASN:HB2	8:CH:200:ASP:N	1.90	0.84
8:CW:10:PHE:CD2	10:CY:10:HIS:HD2	1.57	0.84
8:CW:56:ASN:HB2	8:CW:200:ASP:N	1.90	0.84
8:CW:176:ARG:O	8:CW:196:PHE:HB2	1.76	0.84
9:Cr:14:LEU:CD1	10:Cs:14:ILE:CB	2.55	0.84
8:Cv:10:PHE:CE2	10:Cx:10:HIS:CB	2.59	0.84
9:CD:24:LEU:HD13	10:CE:21:THR:HG23	1.57	0.83
8:CM:56:ASN:HB2	8:CM:200:ASP:N	1.90	0.83
8:Cb:14:VAL:CG2	10:Cd:13:ILE:HG23	2.06	0.83
10:Cd:78:SER:HB3	10:Cd:81:PHE:CB	2.08	0.83
9:Ch:24:LEU:HD13	10:Ci:21:THR:HG23	1.57	0.83
8:Cl:56:ASN:HB2	8:Cl:200:ASP:N	1.90	0.83
9:Cw:27:ILE:HG22	10:Cx:28:ILE:CD1	2.05	0.83
8:C0:176:ARG:O	8:C0:196:PHE:HB2	1.76	0.83
9:CI:41:ILE:O	10:CJ:38:ARG:NH2	2.11	0.83
9:CN:14:LEU:CD1	10:CO:14:ILE:CB	2.55	0.83
8:CR:10:PHE:CE2	10:CT:10:HIS:CB	2.59	0.83
8:CR:56:ASN:HB2	8:CR:199:GLY:N	1.93	0.83
9:CX:27:ILE:HG22	10:CY:28:ILE:CD1	2.05	0.83
9:Cw:31:LEU:CD1	10:Cx:28:ILE:CG2	2.37	0.83
8:C0:56:ASN:HB2	8:C0:200:ASP:N	1.90	0.83
10:C2:78:SER:HB3	10:C2:81:PHE:CB	2.08	0.83
10:C7:78:SER:HB3	10:C7:81:PHE:CB	2.08	0.83
8:CC:198:LEU:HD13	8:CC:203:HIS:HB2	1.57	0.83
9:CS:24:LEU:HD11	10:CT:21:THR:HG22	1.60	0.83
9:Cc:24:LEU:HD13	10:Cd:21:THR:HG23	1.57	0.83
9:Cm:41:ILE:O	10:Cn:38:ARG:NH2	2.11	0.83
8:Cq:56:ASN:HB2	8:Cq:200:ASP:N	1.90	0.83
9:Cr:46:PHE:CZ	10:Cs:47:ALA:HB3	2.07	0.83
8:Cv:56:ASN:HB2	8:Cv:199:GLY:N	1.93	0.83
8:C0:10:PHE:CD2	10:C2:10:HIS:HD2	1.57	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C1:17:ASN:ND2	10:C2:17:LEU:HD13	1.93	0.83
8:C5:56:ASN:HB2	8:C5:200:ASP:N	1.90	0.83
9:CD:24:LEU:HD11	10:CE:21:THR:HG22	1.60	0.83
8:CM:10:PHE:CD2	10:CO:10:HIS:HD2	1.57	0.83
10:CT:78:SER:HB3	10:CT:81:PHE:CB	2.08	0.83
8:CW:10:PHE:HD2	10:CY:10:HIS:HA	1.42	0.83
10:CY:78:SER:HB3	10:CY:81:PHE:CB	2.08	0.83
9:Cw:24:LEU:HD11	10:Cx:21:THR:HG22	1.60	0.83
10:Cx:78:SER:HB3	10:Cx:81:PHE:CB	2.08	0.83
9:C1:27:ILE:HG22	10:C2:28:ILE:CD1	2.05	0.83
8:C5:51:LYS:HZ1	10:C7:46:LYS:HG3	1.44	0.83
9:CN:117:TRP:CH2	9:CN:121:LEU:HD12	2.14	0.83
8:Cg:10:PHE:HD2	10:Ci:10:HIS:HA	1.42	0.83
9:Ch:46:PHE:HZ	10:Ci:47:ALA:CB	1.47	0.83
4:AV:25:ASP:HA	8:CW:78:HIS:CD2	2.13	0.83
4:Af:25:ASP:HA	8:Cg:78:HIS:CD2	2.13	0.83
8:C5:10:PHE:HD2	10:C7:10:HIS:HA	1.41	0.83
8:C5:42:VAL:HG21	8:C5:46:THR:HB	1.60	0.83
8:CC:10:PHE:HD2	10:CE:10:HIS:HA	1.42	0.83
8:CM:56:ASN:HB2	8:CM:199:GLY:N	1.93	0.83
9:CS:24:LEU:HD13	10:CT:21:THR:HG23	1.57	0.83
9:CX:17:ASN:ND2	10:CY:17:LEU:HD13	1.93	0.83
8:Cb:56:ASN:HB2	8:Cb:200:ASP:N	1.90	0.83
8:Cb:198:LEU:HD13	8:Cb:203:HIS:HB2	1.57	0.83
8:Cg:56:ASN:HB2	8:Cg:199:GLY:N	1.93	0.83
9:Ch:24:LEU:HD11	10:Ci:21:THR:HG22	1.60	0.83
9:Cr:117:TRP:CH2	9:Cr:121:LEU:HD12	2.14	0.83
8:Cv:10:PHE:CG	10:Cx:10:HIS:HD2	1.58	0.83
9:Cw:117:TRP:CH2	9:Cw:121:LEU:HD12	2.14	0.83
4:AB:25:ASP:HA	8:CC:78:HIS:CD2	2.13	0.83
4:Az:25:ASP:HA	8:C0:78:HIS:CD2	2.13	0.83
8:CH:54:ILE:C	10:CJ:53:ARG:HH22	1.87	0.83
9:CS:117:TRP:CH2	9:CS:121:LEU:HD12	2.14	0.83
8:Cg:198:LEU:HD13	8:Cg:203:HIS:HB2	1.57	0.83
9:Ch:199:ARG:HG2	9:Ch:204:ARG:HB2	1.60	0.83
8:Cl:54:ILE:C	10:Cn:53:ARG:HH22	1.87	0.83
8:Cq:56:ASN:HB2	8:Cq:199:GLY:N	1.93	0.83
9:Cw:24:LEU:HD13	10:Cx:21:THR:HG23	1.57	0.83
8:C0:10:PHE:HD2	10:C2:10:HIS:HA	1.42	0.83
8:CC:56:ASN:HB2	8:CC:199:GLY:N	1.93	0.83
9:CI:17:ASN:ND2	10:CJ:17:LEU:HD13	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CR:42:VAL:CG2	8:CR:46:THR:OG1	2.27	0.83
8:Cb:42:VAL:HG21	8:Cb:46:THR:HB	1.60	0.83
8:Cb:51:LYS:HZ1	10:Cd:46:LYS:HG3	1.44	0.83
8:Cq:10:PHE:CD2	10:Cs:10:HIS:HD2	1.57	0.83
8:Cv:42:VAL:CG2	8:Cv:46:THR:OG1	2.27	0.83
4:Aa:25:ASP:HA	8:Cb:78:HIS:CD2	2.13	0.83
9:CD:199:ARG:HG2	9:CD:204:ARG:HB2	1.60	0.83
8:CH:56:ASN:HB2	8:CH:199:GLY:N	1.93	0.83
8:CM:35:TYR:HE1	10:CO:34:LEU:HB3	1.36	0.83
8:CM:54:ILE:C	10:CO:53:ARG:HH22	1.87	0.83
8:Cb:10:PHE:HD2	10:Cd:10:HIS:HA	1.41	0.83
9:Cm:17:ASN:ND2	10:Cn:17:LEU:HD13	1.93	0.83
2:AD:84:LEU:HD12	2:AD:90:LEU:HD13	1.61	0.83
2:Ah:84:LEU:HD12	2:Ah:90:LEU:HD13	1.61	0.83
4:Bj:79:LEU:HD12	4:Bj:85:LEU:CD1	2.09	0.83
8:C5:198:LEU:HD13	8:C5:203:HIS:HB2	1.57	0.83
8:CC:42:VAL:CG2	8:CC:46:THR:OG1	2.27	0.83
9:CD:46:PHE:HZ	10:CE:47:ALA:CB	1.47	0.83
9:CI:38:ALA:CA	10:CJ:35:LEU:HD13	2.09	0.83
9:CN:38:ALA:CA	10:CO:35:LEU:HD13	2.09	0.83
10:CO:78:SER:HB3	10:CO:81:PHE:CB	2.08	0.83
9:Cc:24:LEU:HD11	10:Cd:21:THR:HG22	1.60	0.83
9:Cc:199:ARG:HG2	9:Cc:204:ARG:HB2	1.60	0.83
8:Cg:42:VAL:CG2	8:Cg:46:THR:OG1	2.27	0.83
9:Cm:199:ARG:HG2	9:Cm:204:ARG:HB2	1.60	0.83
8:Cq:35:TYR:HE1	10:Cs:34:LEU:HB3	1.36	0.83
8:Cq:51:LYS:HZ1	10:Cs:46:LYS:HG3	1.43	0.83
8:Cq:54:ILE:C	10:Cs:53:ARG:HH22	1.87	0.83
4:A4:25:ASP:HA	8:C5:78:HIS:CD2	2.13	0.82
4:BF:79:LEU:HD12	4:BF:85:LEU:CD1	2.09	0.82
4:Be:79:LEU:HD12	4:Be:85:LEU:CD1	2.09	0.82
9:C6:27:ILE:HG22	10:C7:28:ILE:CD1	2.05	0.82
7:CA:74:ILE:HG23	7:CA:75:LEU:H	1.44	0.82
9:CD:17:ASN:ND2	10:CE:17:LEU:HD13	1.93	0.82
9:CD:41:ILE:C	10:CE:38:ARG:CZ	2.50	0.82
9:CI:199:ARG:HG2	9:CI:204:ARG:HB2	1.60	0.82
9:CS:38:ALA:CA	10:CT:35:LEU:HD13	2.09	0.82
9:CX:24:LEU:HD11	10:CY:21:THR:HG22	1.60	0.82
9:CX:117:TRP:CH2	9:CX:121:LEU:HD12	2.14	0.82
8:Cb:10:PHE:CD2	10:Cd:10:HIS:HD2	1.57	0.82
8:Cb:42:VAL:CG2	8:Cb:46:THR:OG1	2.27	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ce:74:ILE:HG23	7:Ce:75:LEU:H	1.44	0.82
8:Cg:51:LYS:HZ1	10:Ci:46:LYS:HG3	1.44	0.82
9:Ch:41:ILE:C	10:Ci:38:ARG:CZ	2.50	0.82
8:Cl:56:ASN:HB2	8:Cl:199:GLY:N	1.93	0.82
9:Cm:38:ALA:CA	10:Cn:35:LEU:HD13	2.09	0.82
10:Cn:78:SER:HB3	10:Cn:81:PHE:CB	2.08	0.82
9:Cr:38:ALA:CA	10:Cs:35:LEU:HD13	2.09	0.82
10:Cs:78:SER:HB3	10:Cs:81:PHE:CB	2.08	0.82
4:Ak:25:ASP:HA	8:Cl:78:HIS:CD2	2.13	0.82
4:BA:79:LEU:HD12	4:BA:85:LEU:CD1	2.09	0.82
4:BZ:79:LEU:HD12	4:BZ:85:LEU:CD1	2.09	0.82
8:C5:42:VAL:CG2	8:C5:46:THR:OG1	2.27	0.82
9:C6:199:ARG:HG2	9:C6:204:ARG:HB2	1.60	0.82
9:Cw:38:ALA:CA	10:Cx:35:LEU:HD13	2.09	0.82
4:B3:79:LEU:HD12	4:B3:85:LEU:CD1	2.09	0.82
9:C1:24:LEU:HD11	10:C2:21:THR:HG22	1.60	0.82
9:C1:117:TRP:CH2	9:C1:121:LEU:HD12	2.14	0.82
8:C5:10:PHE:CD2	10:C7:10:HIS:HD2	1.57	0.82
8:C5:10:PHE:CG	10:C7:10:HIS:HD2	1.58	0.82
9:C6:24:LEU:HD11	10:C7:21:THR:HG22	1.60	0.82
8:CC:51:LYS:HZ1	10:CE:46:LYS:HG3	1.45	0.82
10:CJ:78:SER:HB3	10:CJ:81:PHE:CB	2.08	0.82
9:Ch:17:ASN:ND2	10:Ci:17:LEU:HD13	1.93	0.82
8:Cl:42:VAL:CG2	8:Cl:46:THR:OG1	2.27	0.82
4:AG:25:ASP:HA	8:CH:78:HIS:CD2	2.13	0.82
8:C0:42:VAL:CG2	8:C0:46:THR:OG1	2.27	0.82
9:C6:117:TRP:CH2	9:C6:121:LEU:HD12	2.14	0.82
7:CF:74:ILE:HG23	7:CF:75:LEU:H	1.44	0.82
8:CH:42:VAL:CG2	8:CH:46:THR:OG1	2.27	0.82
8:CM:51:LYS:HZ1	10:CO:46:LYS:HG3	1.43	0.82
8:CM:56:ASN:HB3	8:CM:200:ASP:N	1.94	0.82
9:Cc:17:ASN:ND2	10:Cd:17:LEU:HD13	1.93	0.82
9:Cc:27:ILE:HG22	10:Cd:28:ILE:CD1	2.05	0.82
9:Cc:117:TRP:CH2	9:Cc:121:LEU:HD12	2.14	0.82
7:Cj:74:ILE:HG23	7:Cj:75:LEU:H	1.44	0.82
8:Cq:56:ASN:HB3	8:Cq:200:ASP:N	1.94	0.82
9:Cw:46:PHE:HZ	10:Cx:47:ALA:CB	1.47	0.82
4:BP:79:LEU:HD12	4:BP:85:LEU:CD1	2.09	0.82
4:BU:79:LEU:HD12	4:BU:85:LEU:CD1	2.09	0.82
8:CC:15:LYS:CE	8:Cg:23:TYR:HE2	1.93	0.82
8:CW:42:VAL:CG2	8:CW:46:THR:OG1	2.27	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CW:54:ILE:C	10:CY:53:ARG:HH22	1.87	0.82
9:Cm:117:TRP:CH2	9:Cm:121:LEU:HD12	2.14	0.82
2:AN:84:LEU:HD12	2:AN:90:LEU:HD13	1.61	0.82
2:Ac:84:LEU:HD12	2:Ac:90:LEU:HD13	1.61	0.82
2:Aw:84:LEU:HD12	2:Aw:90:LEU:HD13	1.61	0.82
4:Bt:79:LEU:HD12	4:Bt:85:LEU:CD1	2.09	0.82
4:By:79:LEU:HD12	4:By:85:LEU:CD1	2.09	0.82
8:C0:54:ILE:C	10:C2:53:ARG:HH22	1.87	0.82
9:C1:38:ALA:CA	10:C2:35:LEU:HD13	2.09	0.82
9:C1:173:ASN:CB	9:C1:176:SER:HB2	2.10	0.82
9:C6:17:ASN:ND2	10:C7:17:LEU:HD13	1.93	0.82
9:C6:173:ASN:CB	9:C6:176:SER:HB2	2.10	0.82
8:CC:23:TYR:HE2	8:Cg:15:LYS:CE	1.93	0.82
9:CI:41:ILE:C	10:CJ:38:ARG:CZ	2.50	0.82
9:CN:27:ILE:HG22	10:CO:28:ILE:CD1	2.05	0.82
9:CX:173:ASN:CB	9:CX:176:SER:HB2	2.10	0.82
8:Cb:46:THR:HG21	9:Cc:47:VAL:HG21	1.62	0.82
9:Cm:41:ILE:C	10:Cn:38:ARG:CZ	2.50	0.82
9:C1:14:LEU:HD11	10:C2:14:ILE:HB	1.62	0.82
10:C2:209:SER:HB3	10:C2:211:GLU:HG2	1.62	0.82
8:C5:46:THR:HG21	9:C6:47:VAL:HG21	1.62	0.82
8:CH:35:TYR:HH	10:CJ:34:LEU:HD22	1.40	0.82
9:CI:117:TRP:CH2	9:CI:121:LEU:HD12	2.14	0.82
9:CX:38:ALA:CA	10:CY:35:LEU:HD13	2.09	0.82
10:CY:209:SER:HB3	10:CY:211:GLU:HG2	1.62	0.82
8:Cb:15:LYS:CE	8:Cl:23:TYR:HE2	1.93	0.82
9:Cc:31:LEU:CD1	10:Cd:28:ILE:CG2	2.37	0.82
9:Cc:173:ASN:CB	9:Cc:176:SER:HB2	2.10	0.82
9:Cw:14:LEU:CD1	10:Cx:14:ILE:CB	2.55	0.82
2:A6:84:LEU:HD12	2:A6:90:LEU:HD13	1.61	0.82
2:AS:84:LEU:HD12	2:AS:90:LEU:HD13	1.61	0.82
2:Ar:84:LEU:HD12	2:Ar:90:LEU:HD13	1.61	0.82
8:C5:15:LYS:CE	8:CH:23:TYR:HE2	1.93	0.82
9:CD:117:TRP:CH2	9:CD:121:LEU:HD12	2.14	0.82
9:CN:20:LEU:CD2	10:CO:21:THR:CG2	2.51	0.82
9:CN:27:ILE:HG22	10:CO:28:ILE:HG21	1.62	0.82
9:CS:27:ILE:HG22	10:CT:28:ILE:HG21	1.62	0.82
9:CS:199:ARG:HG2	9:CS:204:ARG:HB2	1.60	0.82
10:CT:209:SER:HB3	10:CT:211:GLU:HG2	1.62	0.82
9:CX:14:LEU:HD11	10:CY:14:ILE:HB	1.62	0.82
8:Cb:10:PHE:CG	10:Cd:10:HIS:HD2	1.58	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:54:ILE:C	10:Ci:53:ARG:HH22	1.87	0.82
9:Ch:117:TRP:CH2	9:Ch:121:LEU:HD12	2.14	0.82
9:Cr:27:ILE:HG22	10:Cs:28:ILE:CD1	2.05	0.82
9:Cw:27:ILE:HG22	10:Cx:28:ILE:HG21	1.62	0.82
9:Cw:199:ARG:HG2	9:Cw:204:ARG:HB2	1.60	0.82
10:Cx:209:SER:HB3	10:Cx:211:GLU:HG2	1.62	0.82
4:Bo:79:LEU:HD12	4:Bo:85:LEU:CD1	2.09	0.82
10:C2:117:CYS:HB2	10:C2:213:CYS:SG	2.20	0.82
8:C5:23:TYR:HE2	8:CH:15:LYS:CE	1.93	0.82
8:CC:54:ILE:C	10:CE:53:ARG:HH22	1.87	0.82
9:CD:38:ALA:CA	10:CE:35:LEU:HD13	2.09	0.82
9:CS:46:PHE:HZ	10:CT:47:ALA:CB	1.47	0.82
9:CS:173:ASN:CB	9:CS:176:SER:HB2	2.10	0.82
8:CW:15:LYS:CE	8:Cq:23:TYR:HE2	1.93	0.82
10:CY:117:CYS:HB2	10:CY:213:CYS:SG	2.20	0.82
8:Cb:54:ILE:C	10:Cd:53:ARG:HH22	1.87	0.82
9:Cr:27:ILE:HG22	10:Cs:28:ILE:HG21	1.62	0.82
9:Cw:14:LEU:HD11	10:Cx:14:ILE:HB	1.62	0.82
8:C0:15:LYS:CE	8:CM:23:TYR:HE2	1.93	0.82
8:C0:23:TYR:HE2	8:CM:15:LYS:CE	1.93	0.82
8:C0:46:THR:HG21	9:C1:47:VAL:HG21	1.62	0.82
7:C3:74:ILE:HG23	7:C3:75:LEU:H	1.44	0.82
8:C5:54:ILE:C	10:C7:53:ARG:HH22	1.87	0.82
9:CN:173:ASN:CB	9:CN:176:SER:HB2	2.10	0.82
10:CO:117:CYS:HB2	10:CO:213:CYS:SG	2.20	0.82
9:CS:14:LEU:CD1	10:CT:14:ILE:CB	2.55	0.82
9:CS:14:LEU:HD11	10:CT:14:ILE:HB	1.62	0.82
8:CW:46:THR:HG21	9:CX:47:VAL:HG21	1.62	0.82
7:CZ:74:ILE:HG23	7:CZ:75:LEU:H	1.44	0.82
8:Cb:23:TYR:HE2	8:Cl:15:LYS:CE	1.93	0.82
8:Cg:14:VAL:CG2	10:Ci:13:ILE:HG23	2.06	0.82
8:Cl:35:TYR:HH	10:Cn:34:LEU:HD22	1.40	0.82
10:Cs:117:CYS:HB2	10:Cs:213:CYS:SG	2.20	0.82
9:Cw:173:ASN:CB	9:Cw:176:SER:HB2	2.10	0.82
3:AO:102:ILE:HA	3:AO:150:LEU:HG	1.61	0.81
4:BK:79:LEU:HD12	4:BK:85:LEU:CD1	2.09	0.81
9:C1:27:ILE:HG22	10:C2:28:ILE:HG21	1.62	0.81
9:C6:14:LEU:HD11	10:C7:14:ILE:HB	1.62	0.81
8:CH:14:VAL:CG2	10:CJ:13:ILE:HG23	2.07	0.81
8:CH:56:ASN:HB3	8:CH:200:ASP:N	1.94	0.81
8:CR:15:LYS:CE	8:Cv:23:TYR:HE2	1.93	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CW:23:TYR:HE2	8:Cq:15:LYS:CE	1.93	0.81
9:Cc:14:LEU:HD11	10:Cd:14:ILE:HB	1.62	0.81
8:Cg:42:VAL:HG21	8:Cg:46:THR:HB	1.60	0.81
9:Ch:38:ALA:CA	10:Ci:35:LEU:HD13	2.09	0.81
8:Cq:42:VAL:CG2	8:Cq:46:THR:OG1	2.27	0.81
9:Cr:20:LEU:CD2	10:Cs:21:THR:CG2	2.51	0.81
9:C1:199:ARG:HG2	9:C1:204:ARG:HB2	1.60	0.81
9:CD:138:ARG:HB2	9:CD:141:PHE:HD2	1.45	0.81
8:CM:42:VAL:CG2	8:CM:46:THR:OG1	2.27	0.81
8:CR:23:TYR:HE2	8:Cv:15:LYS:CE	1.93	0.81
8:CR:54:ILE:C	10:CT:53:ARG:HH22	1.87	0.81
8:CW:51:LYS:HZ1	10:CY:46:LYS:HG3	1.45	0.81
9:CX:199:ARG:HG2	9:CX:204:ARG:HB2	1.60	0.81
9:Cr:173:ASN:CB	9:Cr:176:SER:HB2	2.10	0.81
3:AT:102:ILE:HA	3:AT:150:LEU:HG	1.62	0.81
3:As:102:ILE:HA	3:As:150:LEU:HG	1.61	0.81
3:Ax:102:ILE:HA	3:Ax:150:LEU:HG	1.62	0.81
6:BI:89:VAL:HG13	5:CG:68:ALA:HA	1.62	0.81
6:Bm:89:VAL:HG13	5:Ck:68:ALA:HA	1.62	0.81
8:C0:51:LYS:HZ1	10:C2:46:LYS:HG3	1.45	0.81
9:C6:31:LEU:CD1	10:C7:28:ILE:CG2	2.37	0.81
8:CC:14:VAL:CG2	10:CE:13:ILE:HG23	2.06	0.81
8:CC:42:VAL:HG21	8:CC:46:THR:HB	1.60	0.81
9:CI:27:ILE:HG22	10:CJ:28:ILE:HG21	1.62	0.81
8:CR:35:TYR:HH	10:CT:34:LEU:HD22	1.42	0.81
9:CX:27:ILE:HG22	10:CY:28:ILE:HG21	1.62	0.81
9:Cc:138:ARG:HB2	9:Cc:141:PHE:HD2	1.45	0.81
9:Ch:138:ARG:HB2	9:Ch:141:PHE:HD2	1.45	0.81
9:Ch:173:ASN:CB	9:Ch:176:SER:HB2	2.10	0.81
8:Cl:14:VAL:CG2	10:Cn:13:ILE:HG23	2.07	0.81
8:Cl:56:ASN:HB3	8:Cl:200:ASP:N	1.94	0.81
9:Cr:14:LEU:HD11	10:Cs:14:ILE:HB	1.62	0.81
8:Cv:54:ILE:C	10:Cx:53:ARG:HH22	1.87	0.81
2:Am:84:LEU:HD12	2:Am:90:LEU:HD13	1.61	0.81
9:CD:173:ASN:CB	9:CD:176:SER:HB2	2.10	0.81
7:CK:74:ILE:HG23	7:CK:75:LEU:H	1.44	0.81
10:CO:209:SER:HB3	10:CO:211:GLU:HG2	1.62	0.81
7:Co:74:ILE:HG23	7:Co:75:LEU:H	1.44	0.81
8:Cv:35:TYR:HH	10:Cx:34:LEU:HD22	1.41	0.81
3:AJ:102:ILE:HA	3:AJ:150:LEU:HG	1.62	0.81
3:An:102:ILE:HA	3:An:150:LEU:HG	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C6:38:ALA:CA	10:C7:35:LEU:HD13	2.09	0.81
9:C6:138:ARG:HB2	9:C6:141:PHE:HD2	1.45	0.81
8:CC:46:THR:HG21	9:CD:47:VAL:HG21	1.62	0.81
8:CC:56:ASN:HB2	8:CC:200:ASP:N	1.90	0.81
9:CN:14:LEU:HD11	10:CO:14:ILE:HB	1.62	0.81
10:Cd:209:SER:HB3	10:Cd:211:GLU:HG2	1.62	0.81
8:Cg:14:VAL:HG21	10:Ci:13:ILE:HG23	1.55	0.81
2:AI:84:LEU:HD12	2:AI:90:LEU:HD13	1.61	0.81
9:C1:41:ILE:O	10:C2:38:ARG:NH2	2.11	0.81
10:C7:117:CYS:HB2	10:C7:213:CYS:SG	2.20	0.81
10:C7:209:SER:HB3	10:C7:211:GLU:HG2	1.62	0.81
9:CN:199:ARG:HG2	9:CN:204:ARG:HB2	1.60	0.81
9:CX:41:ILE:O	10:CY:38:ARG:NH2	2.11	0.81
9:Cm:27:ILE:HG22	10:Cn:28:ILE:HG21	1.62	0.81
10:Cs:209:SER:HB3	10:Cs:211:GLU:HG2	1.62	0.81
2:AX:84:LEU:HD12	2:AX:90:LEU:HD13	1.61	0.81
7:Bf:74:ILE:HG23	7:Bf:75:LEU:H	1.45	0.81
9:CI:173:ASN:CB	9:CI:176:SER:HB2	2.10	0.81
10:CJ:117:CYS:HB2	10:CJ:213:CYS:SG	2.20	0.81
9:Cc:38:ALA:CA	10:Cd:35:LEU:HD13	2.09	0.81
10:Cd:117:CYS:HB2	10:Cd:213:CYS:SG	2.20	0.81
8:Cg:56:ASN:HB2	8:Cg:200:ASP:N	1.90	0.81
10:Cn:117:CYS:HB2	10:Cn:213:CYS:SG	2.20	0.81
9:Cr:199:ARG:HG2	9:Cr:204:ARG:HB2	1.60	0.81
7:BB:74:ILE:HG23	7:BB:75:LEU:H	1.45	0.81
8:Cg:46:THR:HG21	9:Ch:47:VAL:HG21	1.62	0.81
4:AQ:110:LYS:HG3	4:AQ:134:ILE:HG21	1.62	0.81
8:C0:42:VAL:HG21	8:C0:46:THR:HB	1.60	0.81
9:C1:138:ARG:HB2	9:C1:141:PHE:HD2	1.45	0.81
8:CC:35:TYR:HH	10:CE:34:LEU:HD22	1.39	0.81
9:CI:138:ARG:HB2	9:CI:141:PHE:HD2	1.45	0.81
9:CX:138:ARG:HB2	9:CX:141:PHE:HD2	1.45	0.81
9:Cm:138:ARG:HB2	9:Cm:141:PHE:HD2	1.45	0.81
9:Cm:173:ASN:CB	9:Cm:176:SER:HB2	2.10	0.81
2:A1:84:LEU:HD12	2:A1:90:LEU:HD13	1.61	0.81
2:A6:84:LEU:HD12	2:A6:90:LEU:CD1	2.11	0.81
3:AE:102:ILE:HA	3:AE:150:LEU:HG	1.62	0.81
2:Ac:84:LEU:HD12	2:Ac:90:LEU:CD1	2.11	0.81
3:Ai:102:ILE:HA	3:Ai:150:LEU:HG	1.62	0.81
2:Ar:84:LEU:HD12	2:Ar:90:LEU:CD1	2.11	0.81
7:B4:74:ILE:HG23	7:B4:75:LEU:H	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BT:79:LEU:HA	4:BT:85:LEU:HB2	1.63	0.81
4:Bx:79:LEU:HA	4:Bx:85:LEU:HB2	1.63	0.81
8:C0:10:PHE:CE2	10:C2:10:HIS:HB3	2.16	0.81
8:CC:14:VAL:HG21	10:CE:13:ILE:HG23	1.55	0.81
9:CN:41:ILE:C	10:CO:38:ARG:CZ	2.50	0.81
8:CW:10:PHE:CE2	10:CY:10:HIS:HB3	2.16	0.81
9:Ch:14:LEU:CD1	10:Ci:14:ILE:CB	2.55	0.81
8:Cl:42:VAL:HG21	8:Cl:46:THR:HB	1.60	0.81
10:Cx:117:CYS:HB2	10:Cx:213:CYS:SG	2.20	0.81
4:AB:110:LYS:HG3	4:AB:134:ILE:HG21	1.62	0.80
2:AN:84:LEU:HD12	2:AN:90:LEU:CD1	2.11	0.80
2:AX:84:LEU:HD12	2:AX:90:LEU:CD1	2.11	0.80
4:Af:110:LYS:HG3	4:Af:134:ILE:HG21	1.62	0.80
4:Au:110:LYS:HG3	4:Au:134:ILE:HG21	1.62	0.80
6:BN:89:VAL:HG13	5:CL:68:ALA:HA	1.62	0.80
6:Br:89:VAL:HG13	5:Cp:68:ALA:HA	1.62	0.80
4:Bs:110:LYS:HG3	4:Bs:134:ILE:HG21	1.64	0.80
9:CD:14:LEU:CD1	10:CE:14:ILE:CB	2.55	0.80
10:CE:117:CYS:HB2	10:CE:213:CYS:SG	2.20	0.80
9:Cc:24:LEU:CD2	10:Cd:24:ILE:HG21	2.05	0.80
2:A1:84:LEU:HD12	2:A1:90:LEU:CD1	2.11	0.80
1:AR:74:ILE:HG23	1:AR:75:LEU:H	1.46	0.80
4:BO:110:LYS:HG3	4:BO:134:ILE:HG21	1.64	0.80
7:Ba:74:ILE:HG23	7:Ba:75:LEU:H	1.46	0.80
10:CJ:209:SER:HB3	10:CJ:211:GLU:HG2	1.62	0.80
10:CT:117:CYS:HB2	10:CT:213:CYS:SG	2.20	0.80
7:CU:74:ILE:HG23	7:CU:75:LEU:H	1.44	0.80
8:CW:42:VAL:HG21	8:CW:46:THR:HB	1.60	0.80
10:Ci:117:CYS:HB2	10:Ci:213:CYS:SG	2.20	0.80
9:Cw:41:ILE:O	10:Cx:38:ARG:NH2	2.11	0.80
7:Cy:74:ILE:HG23	7:Cy:75:LEU:H	1.44	0.80
4:AL:110:LYS:HG3	4:AL:134:ILE:HG21	1.62	0.80
1:Av:74:ILE:HG23	1:Av:75:LEU:H	1.46	0.80
9:C6:27:ILE:HG22	10:C7:28:ILE:HG21	1.62	0.80
9:CD:199:ARG:HG2	9:CD:204:ARG:CB	2.12	0.80
8:CH:10:PHE:CE2	10:CJ:10:HIS:HB3	2.16	0.80
8:CH:42:VAL:HG21	8:CH:46:THR:HB	1.60	0.80
9:CS:41:ILE:O	10:CT:38:ARG:NH2	2.11	0.80
9:Ch:27:ILE:HG22	10:Ci:28:ILE:CD1	2.05	0.80
9:Ch:199:ARG:HG2	9:Ch:204:ARG:CB	2.12	0.80
8:Cl:10:PHE:CE2	10:Cn:10:HIS:HB3	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cq:156:ASP:HB3	8:Cq:158:HIS:N	1.96	0.80
4:B3:79:LEU:HD12	4:B3:85:LEU:HD13	1.64	0.80
4:BO:79:LEU:HA	4:BO:85:LEU:HB2	1.63	0.80
6:Bc:89:VAL:HG13	5:Ca:68:ALA:HA	1.62	0.80
8:C5:10:PHE:CE2	10:C7:10:HIS:HB3	2.16	0.80
9:C6:24:LEU:CD2	10:C7:24:ILE:HG21	2.05	0.80
7:CA:9:GLU:HG3	9:CD:119:GLY:CA	2.11	0.80
8:CC:18:ASN:CB	10:CE:16:LYS:HZ2	1.92	0.80
10:CE:209:SER:HB3	10:CE:211:GLU:HG2	1.62	0.80
9:CI:27:ILE:HG22	10:CJ:28:ILE:CD1	2.05	0.80
8:CM:156:ASP:HB3	8:CM:158:HIS:N	1.96	0.80
9:CN:199:ARG:HG2	9:CN:204:ARG:CB	2.12	0.80
7:CP:74:ILE:HG23	7:CP:75:LEU:H	1.44	0.80
8:CR:10:PHE:CE2	10:CT:10:HIS:HB3	2.17	0.80
8:CR:46:THR:HG21	9:CS:47:VAL:HG21	1.62	0.80
10:Cn:209:SER:HB3	10:Cn:211:GLU:HG2	1.62	0.80
9:Cr:199:ARG:HG2	9:Cr:204:ARG:CB	2.12	0.80
7:Ct:74:ILE:HG23	7:Ct:75:LEU:H	1.44	0.80
4:AG:110:LYS:HG3	4:AG:134:ILE:HG21	1.62	0.80
2:Ah:84:LEU:HD12	2:Ah:90:LEU:CD1	2.11	0.80
4:Ap:110:LYS:HG3	4:Ap:134:ILE:HG21	1.62	0.80
6:B6:89:VAL:HG13	5:C4:68:ALA:HA	1.62	0.80
4:B7:79:LEU:HA	4:B7:85:LEU:HB2	1.63	0.80
6:BD:89:VAL:HG13	5:CB:68:ALA:HA	1.62	0.80
7:BG:74:ILE:HG23	7:BG:75:LEU:H	1.45	0.80
4:BJ:110:LYS:HG3	4:BJ:134:ILE:HG21	1.64	0.80
4:BU:79:LEU:HD12	4:BU:85:LEU:HD13	1.64	0.80
4:BZ:79:LEU:HD12	4:BZ:85:LEU:HD13	1.64	0.80
4:Bd:79:LEU:HA	4:Bd:85:LEU:HB2	1.63	0.80
6:Bh:89:VAL:HG13	5:Cf:68:ALA:HA	1.62	0.80
7:Bk:74:ILE:HG23	7:Bk:75:LEU:H	1.45	0.80
4:Bn:110:LYS:HG3	4:Bn:134:ILE:HG21	1.64	0.80
6:Bw:102:ILE:HD11	6:Bw:149:ASP:CB	2.12	0.80
8:CC:10:PHE:CE2	10:CE:10:HIS:HB3	2.17	0.80
9:CD:27:ILE:HG22	10:CE:28:ILE:CD1	2.05	0.80
8:CR:56:ASN:HB3	8:CR:200:ASP:N	1.94	0.80
8:Cb:10:PHE:CE2	10:Cd:10:HIS:HB3	2.16	0.80
9:Cc:199:ARG:HG2	9:Cc:204:ARG:CB	2.12	0.80
7:Ce:9:GLU:HG3	9:Ch:119:GLY:CA	2.11	0.80
8:Cg:10:PHE:CE2	10:CI:10:HIS:HB3	2.17	0.80
8:Cv:10:PHE:CE2	10:Cx:10:HIS:HB3	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:84:LEU:HD12	2:AD:90:LEU:CD1	2.11	0.80
2:AI:84:LEU:HD12	2:AI:90:LEU:CD1	2.11	0.80
4:Ak:110:LYS:HG3	4:Ak:134:ILE:HG21	1.62	0.80
6:BS:102:ILE:HD11	6:BS:149:ASP:CB	2.12	0.80
4:Bs:79:LEU:HA	4:Bs:85:LEU:HB2	1.63	0.80
4:By:79:LEU:HD12	4:By:85:LEU:HD13	1.64	0.80
9:C6:199:ARG:HG2	9:C6:204:ARG:CB	2.12	0.80
9:CD:14:LEU:HD11	10:CE:14:ILE:HB	1.62	0.80
8:CH:51:LYS:HZ1	10:CJ:46:LYS:HG3	1.46	0.80
9:Cc:27:ILE:HG22	10:Cd:28:ILE:HG21	1.62	0.80
10:CI:209:SER:HB3	10:CI:211:GLU:HG2	1.62	0.80
8:Cv:46:THR:HG21	9:Cw:47:VAL:HG21	1.62	0.80
3:A2:102:ILE:HA	3:A2:150:LEU:HG	1.62	0.80
3:Ad:102:ILE:HA	3:Ad:150:LEU:HG	1.61	0.80
2:Am:84:LEU:HD12	2:Am:90:LEU:CD1	2.11	0.80
6:BX:102:ILE:HD11	6:BX:149:ASP:CB	2.12	0.80
6:Bc:102:ILE:HD11	6:Bc:149:ASP:CB	2.12	0.80
8:CW:156:ASP:HB3	8:CW:158:HIS:N	1.96	0.80
8:Cg:35:TYR:HH	10:CI:34:LEU:HD22	1.44	0.80
9:Ch:14:LEU:HD11	10:CI:14:ILE:HB	1.62	0.80
9:Cm:27:ILE:HG22	10:Cn:28:ILE:CD1	2.05	0.80
8:Cq:105:THR:HG21	8:Cq:137:ARG:HD2	1.64	0.80
9:Cw:199:ARG:HG2	9:Cw:204:ARG:CB	2.12	0.80
6:B1:102:ILE:HD11	6:B1:149:ASP:CB	2.12	0.80
6:B6:102:ILE:HD11	6:B6:149:ASP:CB	2.12	0.80
4:BA:110:LYS:HG3	4:BA:134:ILE:HG21	1.64	0.80
4:BE:79:LEU:HA	4:BE:85:LEU:HB2	1.63	0.80
6:BN:102:ILE:HD11	6:BN:149:ASP:CB	2.12	0.80
6:BX:89:VAL:HG13	5:CV:68:ALA:HA	1.62	0.80
4:Be:79:LEU:HD12	4:Be:85:LEU:HD13	1.64	0.80
4:Bi:79:LEU:HA	4:Bi:85:LEU:HB2	1.63	0.80
8:CM:105:THR:HG21	8:CM:137:ARG:HD2	1.64	0.80
9:Cm:199:ARG:HG2	9:Cm:204:ARG:CB	2.12	0.80
8:Cv:56:ASN:HB3	8:Cv:200:ASP:N	1.94	0.80
3:AY:102:ILE:HA	3:AY:150:LEU:HG	1.62	0.80
6:B1:89:VAL:HG13	5:Cz:68:ALA:HA	1.62	0.80
4:Be:110:LYS:HG3	4:Be:134:ILE:HG21	1.64	0.80
8:C0:156:ASP:HB3	8:C0:158:HIS:N	1.96	0.80
9:CI:24:LEU:CD1	10:CJ:21:THR:HG23	2.12	0.80
9:CI:199:ARG:HG2	9:CI:204:ARG:CB	2.12	0.80
9:CS:138:ARG:HB2	9:CS:141:PHE:HD2	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CS:199:ARG:HG2	9:CS:204:ARG:CB	2.12	0.80
9:Cm:24:LEU:CD1	10:Cn:21:THR:HG23	2.12	0.80
9:Cw:138:ARG:HB2	9:Cw:141:PHE:HD2	1.45	0.80
3:A7:102:ILE:HA	3:A7:150:LEU:HG	1.61	0.80
2:Aw:84:LEU:HD12	2:Aw:90:LEU:CD1	2.11	0.80
4:BA:79:LEU:HD12	4:BA:85:LEU:HD13	1.64	0.80
4:BF:79:LEU:HD12	4:BF:85:LEU:HD13	1.64	0.80
4:BU:110:LYS:HG3	4:BU:134:ILE:HG21	1.64	0.80
6:Br:102:ILE:HD11	6:Br:149:ASP:CB	2.12	0.80
4:By:110:LYS:HG3	4:By:134:ILE:HG21	1.64	0.80
7:Bz:74:ILE:HG23	7:Bz:75:LEU:H	1.45	0.80
9:CD:27:ILE:HG22	10:CE:28:ILE:HG21	1.62	0.80
8:CH:46:THR:HG21	9:CI:47:VAL:HG21	1.62	0.80
8:Cv:105:THR:HG21	8:Cv:137:ARG:HD2	1.64	0.80
8:Cv:156:ASP:HB3	8:Cv:158:HIS:N	1.96	0.80
1:A0:74:ILE:HG23	1:A0:75:LEU:H	1.46	0.79
4:Bj:79:LEU:HD12	4:Bj:85:LEU:HD13	1.64	0.79
4:Bj:110:LYS:HG3	4:Bj:134:ILE:HG21	1.64	0.79
8:C5:156:ASP:HB3	8:C5:158:HIS:N	1.96	0.79
8:CC:77:ILE:HD12	8:CC:81:LEU:HD12	1.64	0.79
8:CR:105:THR:HG21	8:CR:137:ARG:HD2	1.64	0.79
8:Cb:156:ASP:HB3	8:Cb:158:HIS:N	1.96	0.79
8:Cg:77:ILE:HD12	8:Cg:81:LEU:HD12	1.64	0.79
9:Cr:31:LEU:CD1	10:Cs:28:ILE:CG2	2.37	0.79
4:AL:51:VAL:HG21	4:AL:64:HIS:HB2	1.65	0.79
2:AS:84:LEU:HD12	2:AS:90:LEU:CD1	2.11	0.79
1:AW:74:ILE:HG23	1:AW:75:LEU:H	1.46	0.79
4:Ap:51:VAL:HG21	4:Ap:64:HIS:HB2	1.65	0.79
4:BF:110:LYS:HG3	4:BF:134:ILE:HG21	1.64	0.79
6:Bw:89:VAL:HG13	5:Cu:68:ALA:HA	1.62	0.79
8:CR:156:ASP:HB3	8:CR:158:HIS:N	1.96	0.79
8:Cb:77:ILE:HD12	8:Cb:81:LEU:HD12	1.64	0.79
4:AG:51:VAL:HG21	4:AG:64:HIS:HB2	1.65	0.79
4:BP:51:VAL:HG21	4:BP:64:HIS:HB2	1.65	0.79
6:BS:89:VAL:HG13	5:CQ:68:ALA:HA	1.62	0.79
7:BV:74:ILE:HG23	7:BV:75:LEU:H	1.45	0.79
8:C5:77:ILE:HD12	8:C5:81:LEU:HD12	1.64	0.79
9:CI:24:LEU:HD11	10:CJ:21:THR:CG2	2.13	0.79
8:Cb:35:TYR:HH	10:Cd:34:LEU:HD22	1.44	0.79
9:Ch:27:ILE:HG22	10:CI:28:ILE:HG21	1.62	0.79
8:Cl:46:THR:HG21	9:Cm:47:VAL:HG21	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cm:24:LEU:HD11	10:Cn:21:THR:CG2	2.13	0.79
9:Cr:138:ARG:HB2	9:Cr:141:PHE:HD2	1.45	0.79
4:Ak:51:VAL:HG21	4:Ak:64:HIS:HB2	1.65	0.79
4:Az:110:LYS:HG3	4:Az:134:ILE:HG21	1.62	0.79
4:B7:110:LYS:HG3	4:B7:134:ILE:HG21	1.64	0.79
7:BL:74:ILE:HG23	7:BL:75:LEU:H	1.46	0.79
4:Bt:51:VAL:HG21	4:Bt:64:HIS:HB2	1.65	0.79
9:CD:24:LEU:CD1	10:CE:21:THR:HG23	2.12	0.79
8:CM:10:PHE:CG	10:CO:10:HIS:HD2	1.58	0.79
9:CN:138:ARG:HB2	9:CN:141:PHE:HD2	1.45	0.79
9:Cm:14:LEU:HD11	10:Cn:14:ILE:HB	1.62	0.79
8:Cq:10:PHE:CE2	10:Cs:10:HIS:HB3	2.16	0.79
4:BK:51:VAL:HG21	4:BK:64:HIS:HB2	1.65	0.79
7:BQ:74:ILE:HG23	7:BQ:75:LEU:H	1.45	0.79
4:Bd:110:LYS:HG3	4:Bd:134:ILE:HG21	1.64	0.79
7:Bp:74:ILE:HG23	7:Bp:75:LEU:H	1.46	0.79
9:C1:24:LEU:HD11	10:C2:21:THR:CG2	2.13	0.79
9:C6:14:LEU:CD1	10:C7:14:ILE:CB	2.55	0.79
9:CD:34:LYS:NZ	10:CE:32:GLU:CD	2.41	0.79
8:CH:156:ASP:HB3	8:CH:158:HIS:N	1.96	0.79
8:CM:46:THR:HG21	9:CN:47:VAL:HG21	1.62	0.79
9:CX:24:LEU:HD11	10:CY:21:THR:CG2	2.13	0.79
9:Ch:24:LEU:CD1	10:CI:21:THR:HG23	2.12	0.79
9:Ch:34:LYS:NZ	10:CI:32:GLU:CD	2.41	0.79
8:Cl:51:LYS:HZ1	10:Cn:46:LYS:HG3	1.46	0.79
4:B2:79:LEU:HA	4:B2:85:LEU:HB2	1.63	0.79
4:B3:110:LYS:HG3	4:B3:134:ILE:HG21	1.64	0.79
6:BD:102:ILE:HD11	6:BD:149:ASP:CB	2.12	0.79
4:BP:110:LYS:HG3	4:BP:134:ILE:HG21	1.64	0.79
4:BY:79:LEU:HA	4:BY:85:LEU:HB2	1.63	0.79
4:Bt:110:LYS:HG3	4:Bt:134:ILE:HG21	1.64	0.79
4:Bx:110:LYS:HG3	4:Bx:134:ILE:HG21	1.64	0.79
8:C0:77:ILE:HD12	8:C0:81:LEU:HD12	1.64	0.79
9:C6:24:LEU:CD1	10:C7:21:THR:HG23	2.12	0.79
8:CM:10:PHE:CE2	10:CO:10:HIS:HB3	2.16	0.79
8:Cl:156:ASP:HB3	8:Cl:158:HIS:N	1.96	0.79
7:Ct:9:GLU:HG3	9:Cw:119:GLY:CA	2.11	0.79
8:Cv:14:VAL:HG21	10:Cx:13:ILE:HG23	1.55	0.79
1:AM:74:ILE:HG23	1:AM:75:LEU:H	1.46	0.79
4:AV:110:LYS:HG3	4:AV:134:ILE:HG21	1.62	0.79
1:Aq:74:ILE:HG23	1:Aq:75:LEU:H	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:110:LYS:HG3	4:BZ:134:ILE:HG21	1.64	0.79
6:Bh:102:ILE:HD11	6:Bh:149:ASP:CB	2.12	0.79
4:Bo:51:VAL:HG21	4:Bo:64:HIS:HB2	1.65	0.79
9:C1:24:LEU:CD1	10:C2:21:THR:HG23	2.12	0.79
9:CI:14:LEU:HD11	10:CJ:14:ILE:HB	1.62	0.79
9:CN:24:LEU:HD11	10:CO:21:THR:CG2	2.13	0.79
8:CW:77:ILE:HD12	8:CW:81:LEU:HD12	1.64	0.79
9:CX:24:LEU:CD2	10:CY:24:ILE:HG21	2.05	0.79
9:CX:24:LEU:CD1	10:CY:21:THR:HG23	2.12	0.79
9:CX:199:ARG:HG2	9:CX:204:ARG:CB	2.12	0.79
7:CZ:9:GLU:HG3	9:Cc:119:GLY:CA	2.11	0.79
9:Cc:24:LEU:CD1	10:Cd:21:THR:HG23	2.12	0.79
8:Cl:105:THR:HG21	8:Cl:137:ARG:HD2	1.64	0.79
8:Cq:46:THR:HG21	9:Cr:47:VAL:HG21	1.62	0.79
9:Cr:24:LEU:HD11	10:Cs:21:THR:CG2	2.13	0.79
4:Au:123:ARG:HD2	8:Cv:179:LEU:HD11	1.65	0.79
4:BE:110:LYS:HG3	4:BE:134:ILE:HG21	1.64	0.79
4:BT:110:LYS:HG3	4:BT:134:ILE:HG21	1.64	0.79
4:BY:110:LYS:HG3	4:BY:134:ILE:HG21	1.64	0.79
6:Bm:102:ILE:HD11	6:Bm:149:ASP:CB	2.12	0.79
7:Bu:74:ILE:HG23	7:Bu:75:LEU:H	1.45	0.79
9:Cc:14:LEU:CD1	10:Cd:14:ILE:CB	2.55	0.79
8:Cq:42:VAL:HG21	8:Cq:46:THR:HB	1.60	0.79
4:A4:110:LYS:HG3	4:A4:134:ILE:HG21	1.62	0.79
4:AB:123:ARG:HD2	8:CC:179:LEU:HD11	1.65	0.79
1:AC:74:ILE:HG23	1:AC:75:LEU:H	1.46	0.79
4:AQ:123:ARG:HD2	8:CR:179:LEU:HD11	1.65	0.79
1:Ab:74:ILE:HG23	1:Ab:75:LEU:H	1.46	0.79
4:Af:123:ARG:HD2	8:Cg:179:LEU:HD11	1.65	0.79
4:B2:110:LYS:HG3	4:B2:134:ILE:HG21	1.64	0.79
4:Bo:79:LEU:HD12	4:Bo:85:LEU:HD13	1.64	0.79
4:Bt:79:LEU:HD12	4:Bt:85:LEU:HD13	1.64	0.79
9:C1:199:ARG:HG2	9:C1:204:ARG:CB	2.12	0.79
7:C3:9:GLU:HG3	9:C6:119:GLY:CA	2.11	0.79
8:C5:35:TYR:HH	10:C7:34:LEU:HD22	1.46	0.79
9:C6:24:LEU:HD11	10:C7:21:THR:CG2	2.13	0.79
9:C6:34:LYS:NZ	10:C7:32:GLU:CD	2.41	0.79
8:CC:21:ILE:CD1	10:CE:20:ARG:HD3	2.13	0.79
8:CC:156:ASP:HB3	8:CC:158:HIS:N	1.96	0.79
8:CH:105:THR:HG21	8:CH:137:ARG:HD2	1.64	0.79
9:Cc:24:LEU:HD11	10:Cd:21:THR:CG2	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cc:34:LYS:NZ	10:Cd:32:GLU:CD	2.41	0.79
4:Aa:110:LYS:HG3	4:Aa:134:ILE:HG21	1.62	0.79
6:BI:102:ILE:HD11	6:BI:149:ASP:CB	2.12	0.79
4:BK:79:LEU:HD12	4:BK:85:LEU:HD13	1.64	0.79
4:BP:79:LEU:HD12	4:BP:85:LEU:HD13	1.64	0.79
4:Bi:110:LYS:HG3	4:Bi:134:ILE:HG21	1.64	0.79
8:CH:21:ILE:CD1	10:CJ:20:ARG:HD3	2.13	0.79
9:CI:34:LYS:NZ	10:CJ:32:GLU:CD	2.41	0.79
8:CR:56:ASN:C	8:CR:199:GLY:HA3	2.08	0.79
8:Cg:21:ILE:CD1	10:CI:20:ARG:HD3	2.13	0.79
8:Cg:156:ASP:HB3	8:Cg:158:HIS:N	1.96	0.79
8:Cl:21:ILE:CD1	10:Cn:20:ARG:HD3	2.13	0.79
9:Cm:14:LEU:CD1	10:Cn:14:ILE:CB	2.55	0.79
9:Cm:34:LYS:NZ	10:Cn:32:GLU:CD	2.41	0.79
8:Cv:56:ASN:C	8:Cv:199:GLY:HA3	2.08	0.79
1:A5:74:ILE:HG23	1:A5:75:LEU:H	1.46	0.78
4:AL:123:ARG:HD2	8:CM:179:LEU:HD11	1.65	0.78
1:Ag:74:ILE:HG23	1:Ag:75:LEU:H	1.46	0.78
4:Ap:123:ARG:HD2	8:Cq:179:LEU:HD11	1.65	0.78
9:C1:24:LEU:CD2	10:C2:24:ILE:HG21	2.05	0.78
9:CD:24:LEU:HD11	10:CE:21:THR:CG2	2.13	0.78
9:CI:14:LEU:CD1	10:CJ:14:ILE:CB	2.55	0.78
9:CX:31:LEU:CD1	10:CY:28:ILE:CG2	2.37	0.78
4:Ak:123:ARG:HD2	8:Cl:179:LEU:HD11	1.65	0.78
4:BK:110:LYS:HG3	4:BK:134:ILE:HG21	1.64	0.78
4:Bn:79:LEU:HA	4:Bn:85:LEU:HB2	1.63	0.78
8:CM:42:VAL:HG21	8:CM:46:THR:HB	1.60	0.78
8:CM:77:ILE:HD12	8:CM:81:LEU:HD12	1.64	0.78
9:CS:24:LEU:CD2	10:CT:24:ILE:HG21	2.05	0.78
10:CT:209:SER:CB	10:CT:211:GLU:HG2	2.14	0.78
8:Cq:21:ILE:CD1	10:Cs:20:ARG:HD3	2.13	0.78
10:Cx:209:SER:CB	10:Cx:211:GLU:HG2	2.14	0.78
4:AG:123:ARG:HD2	8:CH:179:LEU:HD11	1.65	0.78
4:BJ:79:LEU:HA	4:BJ:85:LEU:HB2	1.63	0.78
4:BU:51:VAL:HG21	4:BU:64:HIS:HB2	1.65	0.78
8:C0:56:ASN:C	8:C0:199:GLY:HA3	2.08	0.78
8:C0:105:THR:HG21	8:C0:137:ARG:HD2	1.64	0.78
10:CJ:209:SER:CB	10:CJ:211:GLU:HG2	2.13	0.78
8:CM:21:ILE:CD1	10:CO:20:ARG:HD3	2.13	0.78
8:CR:77:ILE:HD12	8:CR:81:LEU:HD12	1.64	0.78
9:Ch:24:LEU:HD11	10:CI:21:THR:CG2	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cn:209:SER:CB	10:Cn:211:GLU:HG2	2.13	0.78
8:Cq:77:ILE:HD12	8:Cq:81:LEU:HD12	1.64	0.78
4:AV:123:ARG:HD2	8:CW:179:LEU:HD11	1.65	0.78
4:Aa:123:ARG:HD2	8:Cb:179:LEU:HD11	1.65	0.78
4:Bo:110:LYS:HG3	4:Bo:134:ILE:HG21	1.64	0.78
4:By:51:VAL:HG21	4:By:64:HIS:HB2	1.65	0.78
10:CO:209:SER:CB	10:CO:211:GLU:HG2	2.14	0.78
9:CS:24:LEU:CD1	10:CT:21:THR:HG23	2.12	0.78
10:Cs:209:SER:CB	10:Cs:211:GLU:HG2	2.14	0.78
8:Cv:77:ILE:HD12	8:Cv:81:LEU:HD12	1.64	0.78
9:Cw:24:LEU:CD1	10:Cx:21:THR:HG23	2.12	0.78
4:A4:51:VAL:HG21	4:A4:64:HIS:HB2	1.65	0.78
4:A4:123:ARG:HD2	8:C5:179:LEU:HD11	1.65	0.78
2:A6:8:GLU:HG2	2:A6:9:CYS:H	1.49	0.78
8:CM:56:ASN:C	8:CM:199:GLY:HA3	2.08	0.78
7:CP:9:GLU:HG3	9:CS:119:GLY:CA	2.11	0.78
8:CW:56:ASN:C	8:CW:199:GLY:HA3	2.08	0.78
9:Ch:14:LEU:HG	10:Ci:14:ILE:CG2	2.01	0.78
4:Aa:51:VAL:HG21	4:Aa:64:HIS:HB2	1.65	0.78
2:Ac:8:GLU:HG2	2:Ac:9:CYS:H	1.49	0.78
4:Az:123:ARG:HD2	8:C0:179:LEU:HD11	1.65	0.78
4:B2:120:GLN:HE21	10:C2:80:LEU:HD11	1.49	0.78
4:BY:120:GLN:HE21	10:CY:80:LEU:HD11	1.49	0.78
9:C1:31:LEU:CD1	10:C2:28:ILE:CG2	2.37	0.78
8:CW:105:THR:HG21	8:CW:137:ARG:HD2	1.64	0.78
8:Cb:21:ILE:CD1	10:Cd:20:ARG:HD3	2.13	0.78
9:Cw:24:LEU:CD2	10:Cx:24:ILE:HG21	2.05	0.78
2:Ar:8:GLU:HG2	2:Ar:9:CYS:H	1.49	0.78
4:BF:51:VAL:HG21	4:BF:64:HIS:HB2	1.65	0.78
8:C5:21:ILE:CD1	10:C7:20:ARG:HD3	2.13	0.78
8:CC:105:THR:HG21	8:CC:137:ARG:HD2	1.64	0.78
7:CU:9:GLU:HG3	9:CX:119:GLY:CA	2.11	0.78
8:Cg:117:TRP:CG	8:Cg:121:GLU:HB2	2.19	0.78
8:Cl:77:ILE:HD12	8:Cl:81:LEU:HD12	1.64	0.78
8:Cq:56:ASN:C	8:Cq:199:GLY:HA3	2.08	0.78
8:Cv:21:ILE:CD1	10:Cx:20:ARG:HD3	2.13	0.78
2:AN:8:GLU:HG2	2:AN:9:CYS:H	1.49	0.78
3:Ao:150:LEU:HD23	3:Ao:150:LEU:H	1.49	0.78
9:C1:34:LYS:NZ	10:C2:32:GLU:CD	2.41	0.78
8:CC:117:TRP:CG	8:CC:121:GLU:HB2	2.19	0.78
8:CH:77:ILE:HD12	8:CH:81:LEU:HD12	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CK:9:GLU:HG3	9:CN:119:GLY:CA	2.11	0.78
9:CX:34:LYS:NZ	10:CY:32:GLU:CD	2.41	0.78
2:AI:8:GLU:HG2	2:AI:9:CYS:H	1.49	0.78
3:AK:150:LEU:HD23	3:AK:150:LEU:H	1.49	0.78
2:Am:8:GLU:HG2	2:Am:9:CYS:H	1.49	0.78
4:Bj:51:VAL:HG21	4:Bj:64:HIS:HB2	1.65	0.78
8:C0:10:PHE:CG	10:C2:10:HIS:HD2	1.58	0.78
9:C1:119:GLY:CA	7:Cy:9:GLU:HG3	2.11	0.78
9:CN:34:LYS:NZ	10:CO:32:GLU:CD	2.41	0.78
8:CR:21:ILE:CD1	10:CT:20:ARG:HD3	2.13	0.78
8:Cg:105:THR:HG21	8:Cg:137:ARG:HD2	1.64	0.78
9:Cr:34:LYS:NZ	10:Cs:32:GLU:CD	2.41	0.78
3:AF:150:LEU:HD23	3:AF:150:LEU:H	1.49	0.78
9:CD:14:LEU:HG	10:CE:14:ILE:CG2	2.01	0.78
8:CH:10:PHE:CD2	10:CJ:10:HIS:HD2	1.57	0.78
10:Cd:209:SER:CB	10:Cd:211:GLU:HG2	2.14	0.78
9:Ch:41:ILE:O	10:Ci:38:ARG:NH2	2.11	0.78
7:Co:9:GLU:HG3	9:Cr:119:GLY:CA	2.11	0.78
4:AV:51:VAL:HG21	4:AV:64:HIS:HB2	1.65	0.77
3:Aj:150:LEU:HD23	3:Aj:150:LEU:H	1.49	0.77
4:Be:51:VAL:HG21	4:Be:64:HIS:HB2	1.65	0.77
8:C5:117:TRP:CG	8:C5:121:GLU:HB2	2.19	0.77
10:C7:209:SER:CB	10:C7:211:GLU:HG2	2.14	0.77
8:CM:117:TRP:CG	8:CM:121:GLU:HB2	2.19	0.77
9:CN:138:ARG:HB2	9:CN:141:PHE:CD2	2.19	0.77
10:CT:174:HIS:HB3	10:CT:192:PHE:HB2	1.65	0.77
8:Cb:117:TRP:CG	8:Cb:121:GLU:HB2	2.19	0.77
4:Az:51:VAL:HG21	4:Az:64:HIS:HB2	1.65	0.77
8:C5:56:ASN:C	8:C5:199:GLY:HA3	2.08	0.77
8:C5:105:THR:HG21	8:C5:137:ARG:HD2	1.64	0.77
9:CI:57:ILE:HG21	10:CJ:57:LEU:HD13	0.77	0.77
9:CN:24:LEU:CD1	10:CO:21:THR:HG23	2.12	0.77
9:CS:28:ILE:CD1	10:CT:28:ILE:HG12	2.14	0.77
8:Cl:56:ASN:C	8:Cl:199:GLY:HA3	2.08	0.77
9:Cr:24:LEU:CD1	10:Cs:21:THR:HG23	2.12	0.77
8:Cv:10:PHE:CD2	10:Cx:10:HIS:HD2	1.57	0.77
9:Cw:28:ILE:CD1	10:Cx:28:ILE:HG12	2.14	0.77
10:Cx:174:HIS:HB3	10:Cx:192:PHE:HB2	1.65	0.77
4:AB:51:VAL:HG21	4:AB:64:HIS:HB2	1.65	0.77
9:CS:34:LYS:NZ	10:CT:32:GLU:CD	2.41	0.77
8:CW:21:ILE:CD1	10:CY:20:ARG:HD3	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:56:ASN:C	8:Cg:199:GLY:HA3	2.08	0.77
8:Cl:117:TRP:CG	8:Cl:121:GLU:HB2	2.19	0.77
9:Cm:57:ILE:HG21	10:Cn:57:LEU:HD13	0.77	0.77
8:Cq:117:TRP:CG	8:Cq:121:GLU:HB2	2.19	0.77
9:Cw:34:LYS:NZ	10:Cx:32:GLU:CD	2.41	0.77
1:AH:74:ILE:HG23	1:AH:75:LEU:H	1.46	0.77
4:AL:87:GLU:HG2	1:AM:66:LYS:HA	1.67	0.77
4:Ak:87:GLU:HG2	1:Al:66:LYS:HA	1.67	0.77
4:Ap:87:GLU:HG2	1:Aq:66:LYS:HA	1.67	0.77
4:BA:51:VAL:HG21	4:BA:64:HIS:HB2	1.65	0.77
4:BZ:51:VAL:HG21	4:BZ:64:HIS:HB2	1.65	0.77
9:CD:41:ILE:O	10:CE:38:ARG:NH2	2.11	0.77
8:CH:56:ASN:C	8:CH:199:GLY:HA3	2.08	0.77
8:CH:117:TRP:CG	8:CH:121:GLU:HB2	2.19	0.77
8:CR:117:TRP:CG	8:CR:121:GLU:HB2	2.19	0.77
9:CS:138:ARG:HB2	9:CS:141:PHE:CD2	2.19	0.77
10:CY:209:SER:CB	10:CY:211:GLU:HG2	2.13	0.77
8:Cb:56:ASN:C	8:Cb:199:GLY:HA3	2.08	0.77
8:Cl:10:PHE:CD2	10:Cn:10:HIS:HD2	1.57	0.77
9:Cw:138:ARG:HB2	9:Cw:141:PHE:CD2	2.19	0.77
2:AD:8:GLU:HG2	2:AD:9:CYS:H	1.49	0.77
4:AG:87:GLU:HG2	1:AH:66:LYS:HA	1.67	0.77
2:Ah:8:GLU:HG2	2:Ah:9:CYS:H	1.49	0.77
1:Al:74:ILE:HG23	1:Al:75:LEU:H	1.46	0.77
4:Bi:120:GLN:HE21	10:Ci:80:LEU:HD11	1.49	0.77
8:C0:21:ILE:CD1	10:C2:20:ARG:HD3	2.13	0.77
10:C2:209:SER:CB	10:C2:211:GLU:HG2	2.13	0.77
9:C6:46:PHE:CE1	10:C7:47:ALA:HB2	2.20	0.77
8:CC:56:ASN:C	8:CC:199:GLY:HA3	2.08	0.77
9:CN:28:ILE:CD1	10:CO:28:ILE:HG12	2.14	0.77
8:CW:10:PHE:CG	10:CY:10:HIS:HD2	1.58	0.77
8:Cb:56:ASN:HB3	8:Cb:200:ASP:N	1.94	0.77
8:Cb:105:THR:HG21	8:Cb:137:ARG:HD2	1.64	0.77
9:Cc:46:PHE:CE1	10:Cd:47:ALA:HB2	2.20	0.77
9:Cr:28:ILE:CD1	10:Cs:28:ILE:HG12	2.14	0.77
8:Cv:117:TRP:CG	8:Cv:121:GLU:HB2	2.19	0.77
3:AF:145:ARG:HA	3:AF:148:LYS:HG2	1.67	0.77
3:AP:150:LEU:HD23	3:AP:150:LEU:H	1.49	0.77
4:Af:51:VAL:HG21	4:Af:64:HIS:HB2	1.65	0.77
3:Aj:145:ARG:HA	3:Aj:148:LYS:HG2	1.67	0.77
3:Ao:145:ARG:HA	3:Ao:148:LYS:HG2	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:At:150:LEU:HD23	3:At:150:LEU:H	1.49	0.77
4:Au:51:VAL:HG21	4:Au:64:HIS:HB2	1.65	0.77
8:C5:56:ASN:HB3	8:C5:200:ASP:N	1.94	0.77
10:CE:209:SER:CB	10:CE:211:GLU:HG2	2.14	0.77
8:CR:51:LYS:HZ1	10:CT:46:LYS:HG3	1.46	0.77
3:AK:145:ARG:HA	3:AK:148:LYS:HG2	1.67	0.77
2:AX:143:ILE:HA	2:AX:146:ILE:CD1	2.15	0.77
4:B3:51:VAL:HG21	4:B3:64:HIS:HB2	1.65	0.77
4:BE:120:GLN:HE21	10:CE:80:LEU:HD11	1.49	0.77
10:CJ:174:HIS:HB3	10:CJ:192:PHE:HB2	1.65	0.77
10:CO:174:HIS:HB3	10:CO:192:PHE:HB2	1.65	0.77
10:CI:209:SER:CB	10:CI:211:GLU:HG2	2.14	0.77
2:A1:143:ILE:HA	2:A1:146:ILE:CD1	2.15	0.77
3:AA:150:LEU:HD23	3:AA:150:LEU:H	1.49	0.77
4:AB:87:GLU:HG2	1:AC:66:LYS:HA	1.67	0.77
4:AQ:51:VAL:HG21	4:AQ:64:HIS:HB2	1.65	0.77
4:Af:87:GLU:HG2	1:Ag:66:LYS:HA	1.67	0.77
2:Ar:143:ILE:HA	2:Ar:146:ILE:CD1	2.15	0.77
4:B2:51:VAL:HG21	4:B2:64:HIS:HB2	1.67	0.77
4:BY:51:VAL:HG21	4:BY:64:HIS:HB2	1.67	0.77
4:Bs:51:VAL:HG21	4:Bs:64:HIS:HB2	1.67	0.77
8:C0:117:TRP:CG	8:C0:121:GLU:HB2	2.19	0.77
9:C6:46:PHE:HZ	10:C7:47:ALA:CB	1.47	0.77
9:C6:57:ILE:HG21	10:C7:57:LEU:HD13	0.77	0.77
9:CD:57:ILE:HG21	10:CE:57:LEU:HD13	0.78	0.77
9:CN:46:PHE:CE1	10:CO:47:ALA:HB2	2.20	0.77
8:CW:117:TRP:CG	8:CW:121:GLU:HB2	2.19	0.77
10:Cn:174:HIS:HB3	10:Cn:192:PHE:HB2	1.65	0.77
10:Cs:174:HIS:HB3	10:Cs:192:PHE:HB2	1.65	0.77
9:Cw:46:PHE:CE1	10:Cx:47:ALA:HB2	2.20	0.77
4:A4:87:GLU:HG2	1:A5:66:LYS:HA	1.67	0.77
2:AN:143:ILE:HA	2:AN:146:ILE:CD1	2.15	0.77
3:AP:145:ARG:HA	3:AP:148:LYS:HG2	1.67	0.77
3:AU:145:ARG:HA	3:AU:148:LYS:HG2	1.67	0.77
4:Aa:87:GLU:HG2	1:Ab:66:LYS:HA	1.67	0.77
3:Ay:102:ILE:HG12	3:Ay:150:LEU:HA	1.67	0.77
3:Ay:145:ARG:HA	3:Ay:148:LYS:HG2	1.67	0.77
4:BO:51:VAL:HG21	4:BO:64:HIS:HB2	1.67	0.77
4:BT:51:VAL:HG21	4:BT:64:HIS:HB2	1.67	0.77
9:C1:57:ILE:HG21	10:C2:57:LEU:HD13	0.77	0.77
9:CI:24:LEU:CD2	10:CJ:21:THR:O	2.26	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:28:ILE:HD12	10:CO:28:ILE:CG1	2.15	0.77
9:CN:31:LEU:CD1	10:CO:28:ILE:CG2	2.37	0.77
9:CS:46:PHE:CE1	10:CT:47:ALA:HB2	2.20	0.77
9:CX:57:ILE:HG21	10:CY:57:LEU:HD13	0.77	0.77
9:Cc:57:ILE:HG21	10:Cd:57:LEU:HD13	0.77	0.77
9:Ch:57:ILE:HG21	10:Ci:57:LEU:HD13	0.78	0.77
9:Cr:46:PHE:CE1	10:Cs:47:ALA:HB2	2.20	0.77
2:A6:143:ILE:HA	2:A6:146:ILE:CD1	2.15	0.77
2:AI:143:ILE:HA	2:AI:146:ILE:CD1	2.15	0.77
3:AU:102:ILE:HG12	3:AU:150:LEU:HA	1.67	0.77
3:AU:150:LEU:H	3:AU:150:LEU:HD23	1.49	0.77
3:AZ:150:LEU:HD23	3:AZ:150:LEU:H	1.49	0.77
2:Ac:143:ILE:HA	2:Ac:146:ILE:CD1	2.15	0.77
2:Am:143:ILE:HA	2:Am:146:ILE:CD1	2.15	0.77
2:Aw:8:GLU:HG2	2:Aw:9:CYS:H	1.49	0.77
4:Bd:120:GLN:HE21	10:Cd:80:LEU:HD11	1.49	0.77
4:Bx:51:VAL:HG21	4:Bx:64:HIS:HB2	1.67	0.77
9:C1:28:ILE:CD1	10:C2:28:ILE:HG12	2.14	0.77
9:C1:38:ALA:HB3	10:C2:35:LEU:CD1	2.15	0.77
9:C1:138:ARG:HB2	9:C1:141:PHE:CD2	2.19	0.77
8:CR:10:PHE:CD2	10:CT:10:HIS:HD2	1.57	0.77
9:CS:57:ILE:HG21	10:CT:57:LEU:HD13	0.78	0.77
10:CY:174:HIS:HB3	10:CY:192:PHE:HB2	1.65	0.77
9:Cr:28:ILE:HD12	10:Cs:28:ILE:CG1	2.15	0.77
9:Cr:57:ILE:HG21	10:Cs:57:LEU:HD13	0.77	0.77
3:A3:145:ARG:HA	3:A3:148:LYS:HG2	1.67	0.76
3:A3:150:LEU:HD23	3:A3:150:LEU:H	1.49	0.76
4:AQ:87:GLU:HG2	1:AR:66:LYS:HA	1.67	0.76
2:AS:8:GLU:HG2	2:AS:9:CYS:H	1.49	0.76
3:Ae:150:LEU:H	3:Ae:150:LEU:HD23	1.49	0.76
3:At:145:ARG:HA	3:At:148:LYS:HG2	1.67	0.76
3:Ay:150:LEU:HD23	3:Ay:150:LEU:H	1.49	0.76
10:C2:174:HIS:HB3	10:C2:192:PHE:HB2	1.65	0.76
9:C6:173:ASN:CG	9:C6:176:SER:HB2	2.10	0.76
9:CD:138:ARG:HB2	9:CD:141:PHE:CD2	2.19	0.76
9:CN:24:LEU:CD2	10:CO:24:ILE:HG21	2.05	0.76
9:CN:57:ILE:HG21	10:CO:57:LEU:HD13	0.77	0.76
8:CR:42:VAL:HG21	8:CR:46:THR:HB	1.60	0.76
9:CX:38:ALA:HB3	10:CY:35:LEU:CD1	2.15	0.76
9:Cc:173:ASN:CG	9:Cc:176:SER:HB2	2.10	0.76
9:Ch:46:PHE:CE1	10:Ci:47:ALA:HB2	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cw:57:ILE:HG21	10:Cx:57:LEU:HD13	0.78	0.76
3:AZ:145:ARG:HA	3:AZ:148:LYS:HG2	1.67	0.76
3:Ae:145:ARG:HA	3:Ae:148:LYS:HG2	1.67	0.76
4:Au:87:GLU:HG2	1:Av:66:LYS:HA	1.67	0.76
4:B7:120:GLN:HE21	10:C7:80:LEU:HD11	1.49	0.76
4:BO:120:GLN:HE21	10:CO:80:LEU:HD11	1.49	0.76
4:BT:120:GLN:HE21	10:CT:80:LEU:HD11	1.49	0.76
4:Bs:120:GLN:HE21	10:Cs:80:LEU:HD11	1.49	0.76
4:Bx:120:GLN:HE21	10:Cx:80:LEU:HD11	1.49	0.76
9:C6:14:LEU:HG	10:C7:14:ILE:CG2	2.01	0.76
9:CX:28:ILE:CD1	10:CY:28:ILE:HG12	2.14	0.76
9:CX:138:ARG:HB2	9:CX:141:PHE:CD2	2.19	0.76
9:Cc:24:LEU:CD2	10:Cd:21:THR:O	2.26	0.76
9:Ch:138:ARG:HB2	9:Ch:141:PHE:CD2	2.19	0.76
8:Cv:42:VAL:HG21	8:Cv:46:THR:HB	1.60	0.76
3:AA:145:ARG:HA	3:AA:148:LYS:HG2	1.67	0.76
8:C0:56:ASN:HB3	8:C0:200:ASP:N	1.94	0.76
9:CD:46:PHE:CE1	10:CE:47:ALA:HB2	2.20	0.76
9:CI:138:ARG:HB2	9:CI:141:PHE:CD2	2.19	0.76
9:Cc:46:PHE:HZ	10:Cd:47:ALA:CB	1.47	0.76
9:Cm:14:LEU:HG	10:Cn:14:ILE:CG2	2.01	0.76
9:Cm:24:LEU:CD2	10:Cn:21:THR:O	2.26	0.76
9:Cm:138:ARG:HB2	9:Cm:141:PHE:CD2	2.19	0.76
10:Cs:17:LEU:HD12	10:Cs:18:ILE:N	2.00	0.76
3:AP:102:ILE:HG12	3:AP:150:LEU:HA	1.67	0.76
9:C1:173:ASN:CG	9:C1:176:SER:HB2	2.10	0.76
10:CE:174:HIS:HB3	10:CE:192:PHE:HB2	1.65	0.76
10:CO:17:LEU:HD12	10:CO:18:ILE:N	2.00	0.76
8:CW:56:ASN:HB3	8:CW:200:ASP:N	1.94	0.76
9:Cm:46:PHE:HZ	10:Cn:47:ALA:CB	1.47	0.76
9:Cr:138:ARG:HB2	9:Cr:141:PHE:CD2	2.19	0.76
3:At:102:ILE:HG12	3:At:150:LEU:HA	1.67	0.76
4:BJ:51:VAL:HG21	4:BJ:64:HIS:HB2	1.67	0.76
10:C7:17:LEU:HD12	10:C7:18:ILE:N	2.00	0.76
9:CD:24:LEU:CD2	10:CE:21:THR:O	2.26	0.76
9:CS:28:ILE:HD12	10:CT:28:ILE:CG1	2.15	0.76
9:CX:173:ASN:CG	9:CX:176:SER:HB2	2.10	0.76
10:Cd:17:LEU:HD12	10:Cd:18:ILE:N	2.00	0.76
8:Cv:51:LYS:HZ1	10:Cx:46:LYS:HG3	1.46	0.76
6:BX:102:ILE:HG23	6:BX:150:LEU:HD21	1.68	0.76
4:Bn:51:VAL:HG21	4:Bn:64:HIS:HB2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C0:115:ALA:HA	8:C0:220:PHE:HB3	1.68	0.76
9:C6:24:LEU:CD2	10:C7:21:THR:O	2.26	0.76
10:C7:174:HIS:HB3	10:C7:192:PHE:HB2	1.65	0.76
9:CD:41:ILE:HG21	10:CE:38:ARG:O	1.86	0.76
10:CT:17:LEU:HD12	10:CT:18:ILE:N	2.00	0.76
8:CW:115:ALA:HA	8:CW:220:PHE:HB3	1.68	0.76
9:Cr:24:LEU:CD2	10:Cs:24:ILE:HG21	2.05	0.76
9:Cw:28:ILE:HD12	10:Cx:28:ILE:CG1	2.15	0.76
10:Cx:17:LEU:HD12	10:Cx:18:ILE:N	2.00	0.76
1:A0:66:LYS:HA	4:Az:87:GLU:HG2	1.67	0.76
2:A1:8:GLU:HG2	2:A1:9:CYS:H	1.49	0.76
6:B1:102:ILE:HG23	6:B1:150:LEU:HD21	1.68	0.76
9:CX:28:ILE:HD12	10:CY:28:ILE:CG1	2.15	0.76
9:Cc:14:LEU:HG	10:Cd:14:ILE:CG2	2.01	0.76
9:Ch:41:ILE:HG21	10:Ci:38:ARG:O	1.86	0.76
10:Ci:174:HIS:HB3	10:Ci:192:PHE:HB2	1.65	0.76
2:A1:18:LYS:CE	2:A1:85:ASP:HB2	2.16	0.76
4:AV:87:GLU:HG2	1:AW:66:LYS:HA	1.67	0.76
2:AX:18:LYS:CE	2:AX:85:ASP:HB2	2.16	0.76
2:Ah:143:ILE:HA	2:Ah:146:ILE:CD1	2.15	0.76
6:B6:102:ILE:HG23	6:B6:150:LEU:HD21	1.68	0.76
9:C1:28:ILE:HD12	10:C2:28:ILE:CG1	2.15	0.76
9:C6:138:ARG:HB2	9:C6:141:PHE:CD2	2.19	0.76
9:CI:14:LEU:HG	10:CJ:14:ILE:CG2	2.01	0.76
10:Cd:174:HIS:HB3	10:Cd:192:PHE:HB2	1.65	0.76
2:AD:143:ILE:HA	2:AD:146:ILE:CD1	2.15	0.76
7:BQ:8:SER:N	7:BQ:11:ASP:HB2	2.01	0.76
4:Bn:120:GLN:HE21	10:Cn:80:LEU:HD11	1.49	0.76
9:CI:46:PHE:HZ	10:CJ:47:ALA:CB	1.47	0.76
8:CR:115:ALA:HA	8:CR:220:PHE:HB3	1.68	0.76
9:CS:38:ALA:HB3	10:CT:35:LEU:CD1	2.15	0.76
9:Ch:24:LEU:CD2	10:Ci:21:THR:O	2.26	0.76
8:Cl:10:PHE:CG	10:Cn:10:HIS:HD2	1.58	0.76
7:BV:8:SER:N	7:BV:11:ASP:HB2	2.01	0.76
6:Bc:102:ILE:HG23	6:Bc:150:LEU:HD21	1.68	0.76
7:Bu:8:SER:N	7:Bu:11:ASP:HB2	2.01	0.76
10:CY:17:LEU:HD12	10:CY:18:ILE:N	2.00	0.76
8:Cb:115:ALA:HA	8:Cb:220:PHE:HB3	1.68	0.76
9:Cc:41:ILE:HG21	10:Cd:38:ARG:O	1.86	0.76
9:Cc:138:ARG:HB2	9:Cc:141:PHE:CD2	2.19	0.76
8:Cv:115:ALA:HA	8:Cv:220:PHE:HB3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cx:63:ASP:HB2	10:Cx:66:GLU:H	1.51	0.76
2:AS:143:ILE:HA	2:AS:146:ILE:CD1	2.15	0.75
2:AX:8:GLU:HG2	2:AX:9:CYS:H	1.49	0.75
7:Bz:8:SER:N	7:Bz:11:ASP:HB2	2.01	0.75
9:C1:14:LEU:CD1	10:C2:14:ILE:CB	2.55	0.75
10:C2:17:LEU:HD12	10:C2:18:ILE:N	2.00	0.75
8:C5:115:ALA:HA	8:C5:220:PHE:HB3	1.68	0.75
9:C6:41:ILE:HG21	10:C7:38:ARG:O	1.86	0.75
9:CD:173:ASN:CG	9:CD:176:SER:HB2	2.10	0.75
10:CE:63:ASP:HB2	10:CE:66:GLU:H	1.51	0.75
9:CI:28:ILE:CD1	10:CJ:28:ILE:HG12	2.14	0.75
10:CT:63:ASP:HB2	10:CT:66:GLU:H	1.51	0.75
9:Cc:28:ILE:HD12	10:Cd:28:ILE:CG1	2.15	0.75
9:Ch:173:ASN:CG	9:Ch:176:SER:HB2	2.10	0.75
3:A3:102:ILE:HG12	3:A3:150:LEU:HA	1.67	0.75
2:AS:18:LYS:CE	2:AS:85:ASP:HB2	2.16	0.75
9:C6:28:ILE:HD12	10:C7:28:ILE:CG1	2.15	0.75
9:CS:173:ASN:CG	9:CS:176:SER:HB2	2.10	0.75
10:CI:17:LEU:HD12	10:CI:18:ILE:N	2.00	0.75
10:CI:63:ASP:HB2	10:CI:66:GLU:H	1.51	0.75
9:Cm:28:ILE:CD1	10:Cn:28:ILE:HG12	2.14	0.75
9:Cw:173:ASN:CG	9:Cw:176:SER:HB2	2.10	0.75
2:Aw:18:LYS:CE	2:Aw:85:ASP:HB2	2.16	0.75
2:Aw:143:ILE:HA	2:Aw:146:ILE:CD1	2.15	0.75
4:BJ:120:GLN:HE21	10:CJ:80:LEU:HD11	1.49	0.75
9:C6:38:ALA:HB3	10:C7:35:LEU:CD1	2.15	0.75
10:C7:63:ASP:HB2	10:C7:66:GLU:H	1.51	0.75
10:CE:17:LEU:HD12	10:CE:18:ILE:N	2.00	0.75
8:CH:10:PHE:CG	10:CJ:10:HIS:HD2	1.58	0.75
10:Cd:63:ASP:HB2	10:Cd:66:GLU:H	1.51	0.75
3:A2:83:LEU:HD23	3:A2:90:LEU:HA	1.68	0.75
3:AZ:102:ILE:HG12	3:AZ:150:LEU:HA	1.67	0.75
4:B7:51:VAL:HG21	4:B7:64:HIS:HB2	1.67	0.75
10:C2:63:ASP:HB2	10:C2:66:GLU:H	1.51	0.75
8:CR:10:PHE:CG	10:CT:10:HIS:HD2	1.58	0.75
9:CX:14:LEU:CD1	10:CY:14:ILE:CB	2.55	0.75
3:AY:83:LEU:HD23	3:AY:90:LEU:HA	1.68	0.75
4:Bd:51:VAL:HG21	4:Bd:64:HIS:HB2	1.67	0.75
9:C1:41:ILE:HG21	10:C2:38:ARG:O	1.86	0.75
9:C6:57:ILE:HD11	10:C7:54:VAL:CG1	2.16	0.75
8:CH:22:ASP:C	10:CJ:20:ARG:NH2	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:63:ASP:HB2	10:CJ:66:GLU:H	1.51	0.75
9:CS:41:ILE:HG21	10:CT:38:ARG:O	1.86	0.75
10:CY:63:ASP:HB2	10:CY:66:GLU:H	1.51	0.75
9:Cc:38:ALA:HB3	10:Cd:35:LEU:CD1	2.15	0.75
8:Cl:22:ASP:C	10:Cn:20:ARG:NH2	2.15	0.75
9:Cm:57:ILE:HD11	10:Cn:54:VAL:CG1	2.16	0.75
9:Cw:41:ILE:HG21	10:Cx:38:ARG:O	1.86	0.75
2:A6:18:LYS:CE	2:A6:85:ASP:HB2	2.16	0.75
2:Ac:18:LYS:CE	2:Ac:85:ASP:HB2	2.16	0.75
6:Bw:83:LEU:HD23	6:Bw:90:LEU:HA	1.69	0.75
7:CF:9:GLU:HG3	9:CI:119:GLY:CA	2.11	0.75
9:CI:41:ILE:HG21	10:CJ:38:ARG:O	1.86	0.75
8:CM:14:VAL:CG1	10:CO:13:ILE:CG2	2.64	0.75
9:CX:41:ILE:HG21	10:CY:38:ARG:O	1.86	0.75
9:Cc:57:ILE:HD11	10:Cd:54:VAL:CG1	2.16	0.75
8:Cg:14:VAL:CG1	10:CI:13:ILE:CG2	2.64	0.75
9:Ch:57:ILE:HD11	10:CI:54:VAL:CG1	2.16	0.75
10:Cn:63:ASP:HB2	10:Cn:66:GLU:H	1.51	0.75
8:Cq:14:VAL:CG1	10:Cs:13:ILE:CG2	2.64	0.75
10:Cs:63:ASP:HB2	10:Cs:66:GLU:H	1.51	0.75
6:B1:83:LEU:HD23	6:B1:90:LEU:HA	1.69	0.75
6:BS:83:LEU:HD23	6:BS:90:LEU:HA	1.69	0.75
6:BX:83:LEU:HD23	6:BX:90:LEU:HA	1.69	0.75
7:Bk:8:SER:N	7:Bk:11:ASP:HB2	2.01	0.75
8:CC:14:VAL:CG1	10:CE:13:ILE:CG2	2.64	0.75
8:CC:115:ALA:HA	8:CC:220:PHE:HB3	1.68	0.75
9:CD:57:ILE:HD11	10:CE:54:VAL:CG1	2.16	0.75
9:CI:57:ILE:HD11	10:CJ:54:VAL:CG1	2.16	0.75
8:Cg:115:ALA:HA	8:Cg:220:PHE:HB3	1.68	0.75
7:Cj:9:GLU:HG3	9:Cm:119:GLY:CA	2.11	0.75
9:Cm:41:ILE:HG21	10:Cn:38:ARG:O	1.86	0.75
10:Cn:17:LEU:HD12	10:Cn:18:ILE:N	2.00	0.75
7:BG:8:SER:N	7:BG:11:ASP:HB2	2.01	0.75
6:BN:102:ILE:HG23	6:BN:150:LEU:HD21	1.68	0.75
6:Br:102:ILE:HG23	6:Br:150:LEU:HD21	1.68	0.75
10:CJ:17:LEU:HD12	10:CJ:18:ILE:N	2.00	0.75
9:CN:173:ASN:CG	9:CN:176:SER:HB2	2.10	0.75
10:CO:63:ASP:HB2	10:CO:66:GLU:H	1.51	0.75
9:Cr:173:ASN:CG	9:Cr:176:SER:HB2	2.10	0.75
3:AJ:83:LEU:HD23	3:AJ:90:LEU:HA	1.68	0.75
3:AP:83:LEU:HD23	3:AP:90:LEU:HA	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AT:83:LEU:HD23	3:AT:90:LEU:HA	1.68	0.75
3:Aj:102:ILE:HG12	3:Aj:150:LEU:HA	1.67	0.75
3:An:83:LEU:HD23	3:An:90:LEU:HA	1.68	0.75
3:At:83:LEU:HD23	3:At:90:LEU:HA	1.69	0.75
9:CS:140:PHE:HB2	9:CS:141:PHE:HA	1.69	0.75
9:Cw:140:PHE:HB2	9:Cw:141:PHE:HA	1.69	0.75
3:AF:102:ILE:HG12	3:AF:150:LEU:HA	1.67	0.74
2:AN:18:LYS:CE	2:AN:85:ASP:HB2	2.16	0.74
2:Am:18:LYS:CE	2:Am:85:ASP:HB2	2.16	0.74
3:Ax:83:LEU:HD23	3:Ax:90:LEU:HA	1.68	0.74
4:BE:51:VAL:HG21	4:BE:64:HIS:HB2	1.67	0.74
7:BL:8:SER:N	7:BL:11:ASP:HB2	2.00	0.74
4:Bi:51:VAL:HG21	4:Bi:64:HIS:HB2	1.67	0.74
6:Br:83:LEU:HD23	6:Br:90:LEU:HA	1.69	0.74
9:C1:46:PHE:HZ	10:C2:47:ALA:CB	1.47	0.74
10:CE:18:ILE:HD11	9:Cm:23:ARG:NE	2.02	0.74
9:CX:24:LEU:CD2	10:CY:21:THR:O	2.26	0.74
3:AA:102:ILE:HG12	3:AA:150:LEU:HA	1.67	0.74
3:AE:83:LEU:HD23	3:AE:90:LEU:HA	1.68	0.74
2:Ah:18:LYS:CE	2:Ah:85:ASP:HB2	2.16	0.74
6:BN:83:LEU:HD23	6:BN:90:LEU:HA	1.69	0.74
10:C2:18:ILE:HD11	9:CS:23:ARG:NE	2.02	0.74
8:CC:56:ASN:HB3	8:CC:200:ASP:N	1.94	0.74
9:CI:23:ARG:NE	10:Ci:18:ILE:HD11	2.02	0.74
9:CN:140:PHE:HB2	9:CN:141:PHE:HA	1.69	0.74
9:CX:46:PHE:CE1	10:CY:47:ALA:HB2	2.20	0.74
10:CY:18:ILE:HD11	9:Cw:23:ARG:NE	2.02	0.74
9:Cr:140:PHE:HB2	9:Cr:141:PHE:HA	1.69	0.74
9:Cw:24:LEU:HD11	10:Cx:21:THR:CG2	2.13	0.74
2:AD:18:LYS:CE	2:AD:85:ASP:HB2	2.16	0.74
2:AI:18:LYS:CE	2:AI:85:ASP:HB2	2.16	0.74
2:Ar:18:LYS:CE	2:Ar:85:ASP:HB2	2.16	0.74
7:Ba:8:SER:N	7:Ba:11:ASP:HB2	2.00	0.74
7:Bp:8:SER:N	7:Bp:11:ASP:HB2	2.00	0.74
8:C0:10:PHE:O	10:C2:13:ILE:CD1	2.35	0.74
10:C2:82:VAL:CG1	10:C2:94:ASP:HB3	2.16	0.74
8:CC:14:VAL:CB	10:CE:13:ILE:HG23	2.17	0.74
9:CD:23:ARG:NE	10:Cn:18:ILE:HD11	2.02	0.74
9:CI:173:ASN:CG	9:CI:176:SER:HB2	2.10	0.74
9:CS:24:LEU:HD11	10:CT:21:THR:CG2	2.13	0.74
8:CW:10:PHE:O	10:CY:13:ILE:CD1	2.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cc:28:ILE:CD1	10:Cd:28:ILE:HG12	2.14	0.74
9:Cm:173:ASN:CG	9:Cm:176:SER:HB2	2.10	0.74
3:Ae:102:ILE:HG12	3:Ae:150:LEU:HA	1.67	0.74
3:Ai:83:LEU:HD23	3:Ai:90:LEU:HA	1.68	0.74
7:BB:8:SER:N	7:BB:11:ASP:HB2	2.01	0.74
7:Bf:8:SER:N	7:Bf:11:ASP:HB2	2.01	0.74
6:Bw:102:ILE:HG23	6:Bw:150:LEU:HD21	1.68	0.74
9:C1:46:PHE:CE1	10:C2:47:ALA:HB2	2.20	0.74
9:C6:28:ILE:CD1	10:C7:28:ILE:HG12	2.14	0.74
9:C6:38:ALA:CB	10:C7:35:LEU:HD11	2.16	0.74
10:CJ:18:ILE:HD11	9:Ch:23:ARG:NE	2.02	0.74
9:CS:117:TRP:CZ2	9:CS:121:LEU:HD12	2.22	0.74
8:Cg:56:ASN:HB3	8:Cg:200:ASP:N	1.94	0.74
8:Cl:14:VAL:CG1	10:Cn:13:ILE:CG2	2.64	0.74
9:Cr:57:ILE:HD11	10:Cs:54:VAL:CG1	2.16	0.74
3:AZ:83:LEU:HD23	3:AZ:90:LEU:HA	1.69	0.74
7:B4:8:SER:N	7:B4:11:ASP:HB2	2.00	0.74
6:Bc:83:LEU:HD23	6:Bc:90:LEU:HA	1.69	0.74
9:C1:23:ARG:NE	10:CT:18:ILE:HD11	2.02	0.74
9:CD:28:ILE:CD1	10:CE:28:ILE:HG12	2.14	0.74
8:CH:14:VAL:CG1	10:CJ:13:ILE:CG2	2.64	0.74
8:CH:14:VAL:CB	10:CJ:13:ILE:HG23	2.17	0.74
8:CM:14:VAL:CB	10:CO:13:ILE:HG23	2.17	0.74
9:CX:38:ALA:CB	10:CY:35:LEU:HD11	2.16	0.74
9:CX:46:PHE:HZ	10:CY:47:ALA:CB	1.47	0.74
10:CY:82:VAL:CG1	10:CY:94:ASP:HB3	2.16	0.74
8:Cg:14:VAL:CB	10:Ci:13:ILE:HG23	2.17	0.74
9:Cm:117:TRP:CZ2	9:Cm:121:LEU:HD12	2.22	0.74
9:Cw:117:TRP:CZ2	9:Cw:121:LEU:HD12	2.22	0.74
3:A7:83:LEU:HD23	3:A7:90:LEU:HA	1.69	0.74
6:B6:83:LEU:HD23	6:B6:90:LEU:HA	1.69	0.74
6:BD:102:ILE:HG23	6:BD:150:LEU:HD21	1.68	0.74
6:BI:102:ILE:HG23	6:BI:150:LEU:HD21	1.68	0.74
6:BS:102:ILE:HG23	6:BS:150:LEU:HD21	1.68	0.74
6:Bm:102:ILE:HG23	6:Bm:150:LEU:HD21	1.68	0.74
6:Br:22:VAL:HG12	6:Br:127:LEU:HD22	1.70	0.74
9:C1:24:LEU:CD2	10:C2:21:THR:O	2.26	0.74
9:C1:117:TRP:CZ2	9:C1:121:LEU:HD12	2.22	0.74
8:C5:10:PHE:O	10:C7:13:ILE:CD1	2.35	0.74
8:CC:10:PHE:O	10:CE:13:ILE:CD1	2.35	0.74
8:CH:84:ASP:HB3	8:CH:86:GLU:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:117:TRP:CZ2	9:CI:121:LEU:HD12	2.22	0.74
8:CM:10:PHE:O	10:CO:13:ILE:CD1	2.35	0.74
8:CM:115:ALA:HA	8:CM:220:PHE:HB3	1.68	0.74
9:CN:57:ILE:HD11	10:CO:54:VAL:CG1	2.16	0.74
8:CR:14:VAL:CB	10:CT:13:ILE:HG23	2.17	0.74
9:Ch:28:ILE:CD1	10:CI:28:ILE:HG12	2.14	0.74
8:Cl:14:VAL:CB	10:Cn:13:ILE:HG23	2.17	0.74
8:Cq:10:PHE:O	10:Cs:13:ILE:CD1	2.35	0.74
8:Cq:14:VAL:CB	10:Cs:13:ILE:HG23	2.17	0.74
8:Cq:115:ALA:HA	8:Cq:220:PHE:HB3	1.68	0.74
8:Cv:14:VAL:CB	10:Cx:13:ILE:HG23	2.17	0.74
10:Cx:82:VAL:CG1	10:Cx:94:ASP:HB3	2.16	0.74
3:A3:83:LEU:HD23	3:A3:90:LEU:HA	1.69	0.74
3:Ao:102:ILE:HG12	3:Ao:150:LEU:HA	1.67	0.74
3:As:102:ILE:HG12	3:As:150:LEU:CA	2.18	0.74
6:BI:22:VAL:HG12	6:BI:127:LEU:HD22	1.70	0.74
6:BN:22:VAL:HG12	6:BN:127:LEU:HD22	1.70	0.74
9:C1:38:ALA:CB	10:C2:35:LEU:HD11	2.16	0.74
9:C6:27:ILE:HG23	10:C7:28:ILE:HG21	1.70	0.74
9:CS:38:ALA:CB	10:CT:35:LEU:HD11	2.16	0.74
10:CT:82:VAL:CG1	10:CT:94:ASP:HB3	2.16	0.74
9:CX:23:ARG:NE	10:Cx:18:ILE:HD11	2.02	0.74
9:CX:117:TRP:CZ2	9:CX:121:LEU:HD12	2.22	0.74
8:Cb:10:PHE:O	10:Cd:13:ILE:CD1	2.35	0.74
8:Cg:10:PHE:O	10:CI:13:ILE:CD1	2.35	0.74
8:Cl:84:ASP:HB3	8:Cl:86:GLU:H	1.52	0.74
3:AO:102:ILE:HG12	3:AO:150:LEU:CA	2.18	0.74
3:Ad:83:LEU:HD23	3:Ad:90:LEU:HA	1.69	0.74
6:Bm:22:VAL:HG12	6:Bm:127:LEU:HD22	1.70	0.74
10:C7:18:ILE:HD11	9:CN:23:ARG:NE	2.02	0.74
9:CD:28:ILE:HD12	10:CE:28:ILE:CG1	2.15	0.74
9:CI:24:LEU:CD2	10:CJ:24:ILE:HG21	2.05	0.74
9:CN:41:ILE:HG21	10:CO:38:ARG:O	1.86	0.74
8:Cb:56:ASN:O	8:Cb:199:GLY:HA3	1.88	0.74
9:Cc:27:ILE:HG23	10:Cd:28:ILE:HG21	1.70	0.74
8:Cl:115:ALA:HA	8:Cl:220:PHE:HB3	1.68	0.74
3:AK:102:ILE:HG12	3:AK:150:LEU:HA	1.67	0.74
6:Bh:102:ILE:HG23	6:Bh:150:LEU:HD21	1.68	0.74
8:C5:56:ASN:O	8:C5:199:GLY:HA3	1.88	0.74
9:C6:140:PHE:HB2	9:C6:141:PHE:HA	1.69	0.74
8:CC:56:ASN:O	8:CC:199:GLY:HA3	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:115:ALA:HA	8:CH:220:PHE:HB3	1.68	0.74
8:CM:84:ASP:HB3	8:CM:86:GLU:H	1.52	0.74
8:CR:68:GLU:HB2	8:CR:74:PRO:O	1.88	0.74
9:CX:42:ASP:HB2	9:CX:45:HIS:HB3	1.70	0.74
8:Cb:14:VAL:CB	10:Cd:13:ILE:HG23	2.17	0.74
9:Cc:140:PHE:HB2	9:Cc:141:PHE:HA	1.69	0.74
10:Cd:18:ILE:HD11	9:Cr:23:ARG:NE	2.02	0.74
8:Cg:56:ASN:O	8:Cg:199:GLY:HA3	1.88	0.74
9:Cm:42:ASP:HB2	9:Cm:45:HIS:HB3	1.70	0.74
8:Cv:68:GLU:HB2	8:Cv:74:PRO:O	1.88	0.74
3:AK:83:LEU:HD23	3:AK:90:LEU:HA	1.69	0.74
9:C1:42:ASP:HB2	9:C1:45:HIS:HB3	1.70	0.74
9:C1:214:THR:CG2	9:C1:216:HIS:HB2	2.18	0.74
9:C6:214:THR:CG2	9:C6:216:HIS:HB2	2.18	0.74
8:CM:68:GLU:HB2	8:CM:74:PRO:O	1.88	0.74
10:CO:82:VAL:CG1	10:CO:94:ASP:HB3	2.16	0.74
9:CX:214:THR:CG2	9:CX:216:HIS:HB2	2.18	0.74
9:Cc:214:THR:CG2	9:Cc:216:HIS:HB2	2.18	0.74
9:Ch:140:PHE:HB2	9:Ch:141:PHE:HA	1.69	0.74
8:Cq:68:GLU:HB2	8:Cq:74:PRO:O	1.88	0.74
9:Cr:41:ILE:HG21	10:Cs:38:ARG:O	1.86	0.74
9:Cw:38:ALA:CB	10:Cx:35:LEU:HD11	2.16	0.74
3:AJ:102:ILE:HG12	3:AJ:150:LEU:CA	2.18	0.73
3:Ao:83:LEU:HD23	3:Ao:90:LEU:HA	1.69	0.73
6:BI:83:LEU:HD23	6:BI:90:LEU:HA	1.69	0.73
6:Bh:83:LEU:HD23	6:Bh:90:LEU:HA	1.69	0.73
8:C5:14:VAL:CB	10:C7:13:ILE:HG23	2.17	0.73
9:CD:27:ILE:HG23	10:CE:28:ILE:HG21	1.70	0.73
9:CD:140:PHE:HB2	9:CD:141:PHE:HA	1.69	0.73
8:CH:10:PHE:O	10:CJ:13:ILE:CD1	2.35	0.73
9:CI:42:ASP:HB2	9:CI:45:HIS:HB3	1.70	0.73
10:CJ:82:VAL:CG1	10:CJ:94:ASP:HB3	2.16	0.73
9:CS:42:ASP:HB2	9:CS:45:HIS:HB3	1.70	0.73
9:Ch:27:ILE:HG23	10:Ci:28:ILE:HG21	1.70	0.73
9:Ch:28:ILE:HD12	10:Ci:28:ILE:CG1	2.15	0.73
8:Cl:10:PHE:O	10:Cn:13:ILE:CD1	2.35	0.73
8:Cq:84:ASP:HB3	8:Cq:86:GLU:H	1.52	0.73
10:Cs:82:VAL:CG1	10:Cs:94:ASP:HB3	2.16	0.73
3:AA:83:LEU:HD23	3:AA:90:LEU:HA	1.69	0.73
3:AJ:102:ILE:CD1	3:AJ:149:ASP:HB3	2.09	0.73
3:Ae:83:LEU:HD23	3:Ae:90:LEU:HA	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:An:102:ILE:HG12	3:An:150:LEU:CA	2.18	0.73
3:Ax:102:ILE:HG12	3:Ax:150:LEU:CA	2.18	0.73
3:Ay:83:LEU:HD23	3:Ay:90:LEU:HA	1.69	0.73
6:BD:83:LEU:HD23	6:BD:90:LEU:HA	1.69	0.73
6:Bm:83:LEU:HD23	6:Bm:90:LEU:HA	1.69	0.73
9:CN:42:ASP:HB2	9:CN:45:HIS:HB3	1.70	0.73
9:CN:117:TRP:CZ2	9:CN:121:LEU:HD12	2.22	0.73
8:Cg:18:ASN:CB	10:Ci:16:LYS:HZ2	1.99	0.73
9:Ch:38:ALA:HB3	10:Ci:35:LEU:CD1	2.15	0.73
9:Ch:117:TRP:CZ2	9:Ch:121:LEU:HD12	2.22	0.73
9:Cr:117:TRP:CZ2	9:Cr:121:LEU:HD12	2.22	0.73
9:Cw:42:ASP:HB2	9:Cw:45:HIS:HB3	1.70	0.73
3:AT:102:ILE:HG12	3:AT:150:LEU:CA	2.18	0.73
8:C0:14:VAL:CB	10:C2:13:ILE:HG23	2.17	0.73
9:CD:117:TRP:CZ2	9:CD:121:LEU:HD12	2.22	0.73
8:CR:10:PHE:O	10:CT:13:ILE:CD1	2.35	0.73
8:Cg:68:GLU:HB2	8:Cg:74:PRO:O	1.88	0.73
8:Cl:68:GLU:HB2	8:Cl:74:PRO:O	1.88	0.73
9:Cm:24:LEU:CD2	10:Cn:24:ILE:HG21	2.05	0.73
10:Cn:82:VAL:CG1	10:Cn:94:ASP:HB3	2.16	0.73
9:Cr:42:ASP:HB2	9:Cr:45:HIS:HB3	1.70	0.73
8:Cv:10:PHE:O	10:Cx:13:ILE:CD1	2.35	0.73
9:Cw:214:THR:CG2	9:Cw:216:HIS:HB2	2.18	0.73
3:An:102:ILE:CD1	3:An:149:ASP:HB3	2.09	0.73
6:B6:22:VAL:HG12	6:B6:127:LEU:HD22	1.70	0.73
4:BA:92:LEU:HD13	4:BA:141:ILE:CD1	2.19	0.73
4:Be:92:LEU:HD13	4:Be:141:ILE:CD1	2.19	0.73
9:C1:140:PHE:HB2	9:C1:141:PHE:HA	1.69	0.73
8:CC:68:GLU:HB2	8:CC:74:PRO:O	1.88	0.73
8:CC:84:ASP:HB3	8:CC:86:GLU:H	1.52	0.73
9:CD:42:ASP:HB2	9:CD:45:HIS:HB3	1.70	0.73
8:CH:68:GLU:HB2	8:CH:74:PRO:O	1.88	0.73
9:CS:82:VAL:HG23	9:CS:88:ASP:CG	2.14	0.73
9:CS:214:THR:CG2	9:CS:216:HIS:HB2	2.18	0.73
9:CX:140:PHE:HB2	9:CX:141:PHE:HA	1.69	0.73
9:Ch:42:ASP:HB2	9:Ch:45:HIS:HB3	1.70	0.73
9:Cr:14:LEU:HG	10:Cs:14:ILE:CG2	2.01	0.73
9:Cw:82:VAL:HG23	9:Cw:88:ASP:CG	2.14	0.73
3:AU:83:LEU:HD23	3:AU:90:LEU:HA	1.69	0.73
4:BU:92:LEU:HD13	4:BU:141:ILE:CD1	2.19	0.73
6:BX:22:VAL:HG12	6:BX:127:LEU:HD22	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bc:22:VAL:HG12	6:Bc:127:LEU:HD22	1.70	0.73
10:C7:115:ASP:HB3	10:C7:121:ARG:HG3	1.70	0.73
9:CD:38:ALA:HB3	10:CE:35:LEU:CD1	2.15	0.73
9:CD:82:VAL:HG23	9:CD:88:ASP:CG	2.14	0.73
8:CW:14:VAL:CB	10:CY:13:ILE:HG23	2.17	0.73
10:Cd:115:ASP:HB3	10:Cd:121:ARG:HG3	1.70	0.73
9:Ch:82:VAL:HG23	9:Ch:88:ASP:CG	2.14	0.73
6:B1:22:VAL:HG12	6:B1:127:LEU:HD22	1.70	0.73
4:By:92:LEU:HD13	4:By:141:ILE:CD1	2.19	0.73
8:CW:56:ASN:O	8:CW:199:GLY:HA3	1.88	0.73
8:Cg:84:ASP:HB3	8:Cg:86:GLU:H	1.52	0.73
8:Cq:156:ASP:HB3	8:Cq:158:HIS:H	1.54	0.73
6:B1:65:GLU:HA	5:Cz:92:ALA:HB1	1.71	0.73
6:BS:65:GLU:HA	5:CQ:92:ALA:HB1	1.71	0.73
6:Bw:65:GLU:HA	5:Cu:92:ALA:HB1	1.71	0.73
9:CD:214:THR:CG2	9:CD:216:HIS:HB2	2.18	0.73
8:CM:156:ASP:HB3	8:CM:158:HIS:H	1.54	0.73
9:Ch:214:THR:CG2	9:Ch:216:HIS:HB2	2.18	0.73
10:Cx:115:ASP:HB3	10:Cx:121:ARG:HG3	1.70	0.73
6:BI:27:PHE:HD2	7:CF:27:GLU:HG3	1.54	0.73
6:Bm:27:PHE:HD2	7:Cj:27:GLU:HG3	1.54	0.73
6:Bw:22:VAL:HG12	6:Bw:127:LEU:HD22	1.70	0.73
8:C0:56:ASN:O	8:C0:199:GLY:HA3	1.88	0.73
8:C0:82:PHE:HZ	8:C0:94:ASP:HB3	1.54	0.73
8:C5:85:GLY:HA2	8:C5:140:PHE:HE2	1.54	0.73
9:CI:140:PHE:HB2	9:CI:141:PHE:HA	1.69	0.73
10:CT:115:ASP:HB3	10:CT:121:ARG:HG3	1.70	0.73
9:Cm:140:PHE:HB2	9:Cm:141:PHE:HA	1.69	0.73
6:BX:65:GLU:HA	5:CV:92:ALA:HB1	1.71	0.73
8:C0:84:ASP:HB3	8:C0:86:GLU:H	1.52	0.73
9:C1:14:LEU:HG	10:C2:14:ILE:CG2	2.01	0.73
8:C5:15:LYS:HE2	8:CH:23:TYR:CE2	2.24	0.73
9:C6:42:ASP:HB2	9:C6:45:HIS:HB3	1.70	0.73
8:CW:82:PHE:HZ	8:CW:94:ASP:HB3	1.54	0.73
10:CY:115:ASP:HB3	10:CY:121:ARG:HG3	1.70	0.73
8:Cb:15:LYS:HE2	8:CI:23:TYR:CE2	2.24	0.73
8:Cb:85:GLY:HA2	8:Cb:140:PHE:HE2	1.54	0.73
9:Cc:23:ARG:NE	10:Cs:18:ILE:HD11	2.02	0.73
9:Cc:117:TRP:CZ2	9:Cc:121:LEU:HD12	2.22	0.73
9:Cr:214:THR:CG2	9:Cr:216:HIS:HB2	2.18	0.73
8:Cv:56:ASN:O	8:Cv:199:GLY:HA3	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BS:22:VAL:HG12	6:BS:127:LEU:HD22	1.70	0.73
10:CJ:115:ASP:HB3	10:CJ:121:ARG:HG3	1.70	0.73
9:CN:214:THR:CG2	9:CN:216:HIS:HB2	2.18	0.73
8:CW:68:GLU:HB2	8:CW:74:PRO:O	1.88	0.73
9:Cc:42:ASP:HB2	9:Cc:45:HIS:HB3	1.70	0.73
9:Cm:24:LEU:HD21	10:Cn:21:THR:C	2.14	0.73
9:Cm:38:ALA:HB2	10:Cn:35:LEU:CG	2.19	0.73
9:Cm:82:VAL:HG23	9:Cm:88:ASP:CG	2.14	0.73
9:Cw:57:ILE:HD11	10:Cx:54:VAL:CG1	2.16	0.73
5:BC:83:MET:HE2	5:BC:93:GLN:HB2	1.71	0.72
6:BN:27:PHE:HD2	7:CK:27:GLU:HG3	1.54	0.72
8:C0:68:GLU:HB2	8:C0:74:PRO:O	1.88	0.72
9:C1:27:ILE:HG23	10:C2:28:ILE:HG21	1.70	0.72
10:C2:115:ASP:HB3	10:C2:121:ARG:HG3	1.70	0.72
9:C6:23:ARG:NE	10:CO:18:ILE:HD11	2.02	0.72
9:C6:117:TRP:CZ2	9:C6:121:LEU:HD12	2.22	0.72
8:CC:82:PHE:HZ	8:CC:94:ASP:HB3	1.54	0.72
9:CI:24:LEU:HD21	10:CJ:21:THR:C	2.14	0.72
9:CI:38:ALA:HB2	10:CJ:35:LEU:CG	2.19	0.72
9:CI:82:VAL:HG23	9:CI:88:ASP:CG	2.14	0.72
9:CI:214:THR:CG2	9:CI:216:HIS:HB2	2.18	0.72
9:CN:14:LEU:HG	10:CO:14:ILE:CG2	2.01	0.72
9:CN:38:ALA:CB	10:CO:35:LEU:HD11	2.16	0.72
8:CR:56:ASN:O	8:CR:199:GLY:HA3	1.88	0.72
8:CR:84:ASP:HB3	8:CR:86:GLU:H	1.52	0.72
9:CS:13:ARG:NH1	10:CT:14:ILE:CG1	2.37	0.72
8:CW:156:ASP:HB3	8:CW:158:HIS:H	1.54	0.72
8:Cb:10:PHE:HE2	10:Cd:10:HIS:HB3	1.54	0.72
10:Cd:188:LEU:HD12	10:Cd:189:VAL:H	1.54	0.72
8:Cg:57:LEU:HA	8:Cg:198:LEU:O	1.90	0.72
9:Cm:38:ALA:HB3	10:Cn:35:LEU:CD1	2.15	0.72
10:Cn:115:ASP:HB3	10:Cn:121:ARG:HG3	1.70	0.72
10:Cs:188:LEU:HD12	10:Cs:189:VAL:H	1.54	0.72
3:AE:102:ILE:HG12	3:AE:150:LEU:CA	2.18	0.72
5:Bg:83:MET:HE2	5:Bg:93:GLN:HB2	1.71	0.72
9:C1:82:VAL:HG23	9:C1:88:ASP:CG	2.14	0.72
8:C5:10:PHE:HE2	10:C7:10:HIS:HB3	1.54	0.72
9:C6:82:VAL:HG23	9:C6:88:ASP:CG	2.14	0.72
10:C7:188:LEU:HD12	10:C7:189:VAL:H	1.54	0.72
8:CC:15:LYS:HE2	8:Cg:23:TYR:CE2	2.24	0.72
8:CC:23:TYR:CE2	8:Cg:15:LYS:HE2	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:57:LEU:HA	8:CC:198:LEU:O	1.90	0.72
8:CC:85:GLY:HA2	8:CC:140:PHE:HE2	1.54	0.72
8:CM:184:LYS:HG3	8:CM:185:GLY:N	2.04	0.72
10:CO:188:LEU:HD12	10:CO:189:VAL:H	1.54	0.72
8:CW:15:LYS:HE2	8:Cq:23:TYR:CE2	2.24	0.72
8:CW:84:ASP:HB3	8:CW:86:GLU:H	1.52	0.72
8:Cb:22:ASP:C	10:Cd:20:ARG:NH2	2.15	0.72
8:Cb:184:LYS:HG3	8:Cb:185:GLY:N	2.04	0.72
9:Cm:214:THR:CG2	9:Cm:216:HIS:HB2	2.18	0.72
8:Cq:56:ASN:O	8:Cq:199:GLY:HA3	1.88	0.72
3:Ai:102:ILE:HG12	3:Ai:150:LEU:CA	2.18	0.72
3:Aj:83:LEU:HD23	3:Aj:90:LEU:HA	1.69	0.72
3:As:83:LEU:HD23	3:As:90:LEU:HA	1.69	0.72
4:BK:92:LEU:HD13	4:BK:141:ILE:CD1	2.19	0.72
4:Bo:92:LEU:HD13	4:Bo:141:ILE:CD1	2.19	0.72
6:Br:27:PHE:HD2	7:Co:27:GLU:HG3	1.54	0.72
8:C0:15:LYS:HE2	8:CM:23:TYR:CE2	2.24	0.72
8:C0:156:ASP:HB3	8:C0:158:HIS:H	1.54	0.72
8:C5:57:LEU:HA	8:C5:198:LEU:O	1.90	0.72
8:C5:68:GLU:HB2	8:C5:74:PRO:O	1.88	0.72
8:C5:84:ASP:HB3	8:C5:86:GLU:H	1.52	0.72
8:C5:184:LYS:HG3	8:C5:185:GLY:N	2.04	0.72
8:CH:56:ASN:O	8:CH:199:GLY:HA3	1.88	0.72
8:CH:184:LYS:HG3	8:CH:185:GLY:N	2.04	0.72
9:CI:13:ARG:CZ	10:CJ:14:ILE:CD1	2.66	0.72
9:CN:82:VAL:HG23	9:CN:88:ASP:CG	2.14	0.72
9:CS:57:ILE:HD11	10:CT:54:VAL:CG1	2.16	0.72
9:CX:27:ILE:HG23	10:CY:28:ILE:HG21	1.70	0.72
9:CX:82:VAL:HG23	9:CX:88:ASP:CG	2.14	0.72
10:Cd:15:ASP:O	10:Cd:18:ILE:HG22	1.89	0.72
8:Cg:82:PHE:HZ	8:Cg:94:ASP:HB3	1.54	0.72
8:Cg:85:GLY:HA2	8:Cg:140:PHE:HE2	1.54	0.72
9:Cm:13:ARG:CZ	10:Cn:14:ILE:CD1	2.66	0.72
8:Cq:184:LYS:HG3	8:Cq:185:GLY:N	2.04	0.72
3:AF:83:LEU:HD23	3:AF:90:LEU:HA	1.69	0.72
3:AT:23:TRP:CH2	3:AT:75:ASN:HA	2.25	0.72
3:As:23:TRP:CH2	3:As:75:ASN:HA	2.25	0.72
3:Ax:23:TRP:CH2	3:Ax:75:ASN:HA	2.25	0.72
5:B5:83:MET:HE2	5:B5:93:GLN:HB2	1.71	0.72
8:C0:57:LEU:HA	8:C0:198:LEU:O	1.90	0.72
10:C2:15:ASP:O	10:C2:18:ILE:HG22	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C7:15:ASP:O	10:C7:18:ILE:HG22	1.89	0.72
10:CE:15:ASP:O	10:CE:18:ILE:HG22	1.89	0.72
8:CH:57:LEU:HA	8:CH:198:LEU:O	1.90	0.72
9:CI:27:ILE:HG23	10:CJ:28:ILE:HG21	1.70	0.72
8:CM:56:ASN:O	8:CM:199:GLY:HA3	1.88	0.72
8:CM:57:LEU:HA	8:CM:198:LEU:O	1.90	0.72
9:CS:27:ILE:HG23	10:CT:28:ILE:HG21	1.70	0.72
8:CW:22:ASP:C	10:CY:20:ARG:NH2	2.15	0.72
9:CX:14:LEU:HG	10:CY:14:ILE:CG2	2.01	0.72
10:CY:15:ASP:O	10:CY:18:ILE:HG22	1.89	0.72
8:Cb:57:LEU:HA	8:Cb:198:LEU:O	1.90	0.72
8:Cb:84:ASP:HB3	8:Cb:86:GLU:H	1.52	0.72
10:Ci:15:ASP:O	10:Ci:18:ILE:HG22	1.89	0.72
8:Cl:56:ASN:O	8:Cl:199:GLY:HA3	1.88	0.72
8:Cl:184:LYS:HG3	8:Cl:185:GLY:N	2.04	0.72
9:Cr:24:LEU:HD21	10:Cs:21:THR:C	2.14	0.72
8:Cv:84:ASP:HB3	8:Cv:86:GLU:H	1.52	0.72
3:A2:102:ILE:HG12	3:A2:150:LEU:CA	2.18	0.72
3:AO:23:TRP:CH2	3:AO:75:ASN:HA	2.25	0.72
5:Bb:83:MET:HE2	5:Bb:93:GLN:HB2	1.71	0.72
4:Bj:92:LEU:HD13	4:Bj:141:ILE:CD1	2.19	0.72
8:C0:10:PHE:HE2	10:C2:10:HIS:HB3	1.54	0.72
8:CC:184:LYS:HG3	8:CC:185:GLY:N	2.04	0.72
9:CD:13:ARG:CZ	10:CE:14:ILE:CD1	2.66	0.72
9:CD:38:ALA:HB2	10:CE:35:LEU:CG	2.18	0.72
9:CI:38:ALA:HB3	10:CJ:35:LEU:CD1	2.15	0.72
10:CJ:15:ASP:O	10:CJ:18:ILE:HG22	1.89	0.72
9:CN:24:LEU:HD21	10:CO:21:THR:C	2.14	0.72
8:CR:57:LEU:HA	8:CR:198:LEU:O	1.90	0.72
8:CR:82:PHE:HZ	8:CR:94:ASP:HB3	1.54	0.72
8:CW:10:PHE:HE2	10:CY:10:HIS:HB3	1.54	0.72
8:CW:57:LEU:HA	8:CW:198:LEU:O	1.90	0.72
8:Cb:68:GLU:HB2	8:Cb:74:PRO:O	1.88	0.72
9:Cc:82:VAL:HG23	9:Cc:88:ASP:CG	2.14	0.72
9:Ch:38:ALA:HB2	10:CI:35:LEU:CG	2.18	0.72
8:Cl:57:LEU:HA	8:Cl:198:LEU:O	1.90	0.72
9:Cm:27:ILE:HG23	10:Cn:28:ILE:HG21	1.70	0.72
10:Cn:15:ASP:O	10:Cn:18:ILE:HG22	1.89	0.72
8:Cq:57:LEU:HA	8:Cq:198:LEU:O	1.90	0.72
8:Cq:148:ARG:HG3	8:Cq:148:ARG:HH11	1.55	0.72
9:Cr:38:ALA:CB	10:Cs:35:LEU:HD11	2.16	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:82:VAL:HG23	9:Cr:88:ASP:CG	2.14	0.72
8:Cv:57:LEU:HA	8:Cv:198:LEU:O	1.90	0.72
8:Cv:148:ARG:HH11	8:Cv:148:ARG:HG3	1.55	0.72
3:AO:83:LEU:HD23	3:AO:90:LEU:HA	1.69	0.72
3:AY:102:ILE:HG12	3:AY:150:LEU:CA	2.18	0.72
4:B3:92:LEU:HD13	4:B3:141:ILE:CD1	2.19	0.72
6:BD:27:PHE:HD2	7:CA:27:GLU:HG3	1.54	0.72
4:BF:92:LEU:HD13	4:BF:141:ILE:CD1	2.19	0.72
6:Bh:27:PHE:HD2	7:Ce:27:GLU:HG3	1.54	0.72
9:Cl:28:ILE:HD12	10:CJ:28:ILE:CG1	2.15	0.72
8:CM:148:ARG:HH11	8:CM:148:ARG:HG3	1.55	0.72
8:CR:148:ARG:HH11	8:CR:148:ARG:HG3	1.55	0.72
9:Ch:13:ARG:CZ	10:Ci:14:ILE:CD1	2.66	0.72
9:Cm:28:ILE:HD12	10:Cn:28:ILE:CG1	2.15	0.72
8:Cv:82:PHE:HZ	8:Cv:94:ASP:HB3	1.54	0.72
9:Cw:27:ILE:HG23	10:Cx:28:ILE:HG21	1.70	0.72
3:AY:23:TRP:CH2	3:AY:75:ASN:HA	2.25	0.72
3:Ad:102:ILE:HG12	3:Ad:150:LEU:CA	2.18	0.72
4:BP:92:LEU:HD13	4:BP:141:ILE:CD1	2.19	0.72
4:BZ:92:LEU:HD13	4:BZ:141:ILE:CD1	2.19	0.72
4:Bt:92:LEU:HD13	4:Bt:141:ILE:CD1	2.19	0.72
8:C0:148:ARG:HH11	8:C0:148:ARG:HG3	1.55	0.72
8:C5:10:PHE:CD2	10:C7:10:HIS:CB	2.73	0.72
8:CH:10:PHE:CD2	10:CJ:10:HIS:HA	2.25	0.72
8:CM:135:ALA:HB2	8:CM:147:LEU:HB3	1.72	0.72
8:Cb:10:PHE:CD2	10:Cd:10:HIS:CB	2.73	0.72
8:Cb:23:TYR:CE2	8:Cl:15:LYS:HE2	2.24	0.72
8:Cg:184:LYS:HG3	8:Cg:185:GLY:N	2.04	0.72
10:Cn:188:LEU:HD12	10:Cn:189:VAL:H	1.54	0.72
8:Cq:10:PHE:CG	10:Cs:10:HIS:HD2	1.58	0.72
9:Cr:46:PHE:HZ	10:Cs:47:ALA:CB	1.47	0.72
3:A2:23:TRP:CH2	3:A2:75:ASN:HA	2.25	0.72
3:A7:102:ILE:HG12	3:A7:150:LEU:CA	2.18	0.72
6:BD:22:VAL:HG12	6:BD:127:LEU:HD22	1.70	0.72
6:BD:65:GLU:HA	5:CB:92:ALA:HB1	1.71	0.72
8:C5:22:ASP:C	10:C7:20:ARG:NH2	2.15	0.72
8:C5:23:TYR:CE2	8:CH:15:LYS:HE2	2.24	0.72
9:CD:13:ARG:NH2	10:CE:14:ILE:CG1	2.53	0.72
10:CJ:188:LEU:HD12	10:CJ:189:VAL:H	1.54	0.72
9:CN:27:ILE:HG23	10:CO:28:ILE:HG21	1.70	0.72
10:CO:115:ASP:HB3	10:CO:121:ARG:HG3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cb:156:ASP:HB3	8:Cb:158:HIS:H	1.54	0.72
8:Cl:10:PHE:CD2	10:Cn:10:HIS:HA	2.25	0.72
8:Cl:82:PHE:HZ	8:Cl:94:ASP:HB3	1.54	0.72
8:Cq:135:ALA:HB2	8:Cq:147:LEU:HB3	1.72	0.72
9:Cr:38:ALA:HB2	10:Cs:35:LEU:CG	2.18	0.72
10:Cs:115:ASP:HB3	10:Cs:121:ARG:HG3	1.70	0.72
10:Cx:188:LEU:HD12	10:Cx:189:VAL:H	1.54	0.72
3:AJ:23:TRP:CH2	3:AJ:75:ASN:HA	2.25	0.72
3:Ad:23:TRP:CH2	3:Ad:75:ASN:HA	2.25	0.72
6:Bh:22:VAL:HG12	6:Bh:127:LEU:HD22	1.70	0.72
6:Bh:65:GLU:HA	5:Cf:92:ALA:HB1	1.71	0.72
8:C0:22:ASP:C	10:C2:20:ARG:NH2	2.15	0.72
8:CH:82:PHE:HZ	8:CH:94:ASP:HB3	1.54	0.72
9:CN:38:ALA:HB2	10:CO:35:LEU:CG	2.18	0.72
8:CR:135:ALA:HB2	8:CR:147:LEU:HB3	1.72	0.72
8:CW:148:ARG:HG3	8:CW:148:ARG:HH11	1.55	0.72
9:Ch:13:ARG:NH2	10:Ci:14:ILE:CG1	2.53	0.72
8:Cq:10:PHE:CD2	10:Cs:10:HIS:HA	2.25	0.72
8:Cv:135:ALA:HB2	8:Cv:147:LEU:HB3	1.72	0.72
3:An:23:TRP:CH2	3:An:75:ASN:HA	2.25	0.72
9:C1:57:ILE:HD11	10:C2:54:VAL:CG1	2.16	0.72
9:C1:138:ARG:H	9:C1:141:PHE:CB	2.03	0.72
8:C5:156:ASP:HB3	8:C5:158:HIS:H	1.54	0.72
8:CC:10:PHE:HE2	10:CE:10:HIS:HB3	1.54	0.72
8:CM:10:PHE:CD2	10:CO:10:HIS:HA	2.25	0.72
8:CM:56:ASN:ND2	8:CM:198:LEU:HB3	2.05	0.72
8:CR:10:PHE:CD2	10:CT:10:HIS:HA	2.25	0.72
8:CR:15:LYS:HE2	8:Cv:23:TYR:CE2	2.24	0.72
8:CR:54:ILE:HD11	9:CS:54:VAL:HG21	1.72	0.72
10:CT:188:LEU:HD12	10:CT:189:VAL:H	1.54	0.72
8:CW:10:PHE:CD2	10:CY:10:HIS:CB	2.73	0.72
8:CW:23:TYR:CE2	8:Cq:15:LYS:HE2	2.24	0.72
9:Cc:24:LEU:HD21	10:Cd:21:THR:C	2.14	0.72
9:Cc:41:ILE:O	10:Cd:38:ARG:NH2	2.11	0.72
9:Cr:27:ILE:HG23	10:Cs:28:ILE:HG21	1.70	0.72
10:Cx:15:ASP:O	10:Cx:18:ILE:HG22	1.89	0.72
3:A7:23:TRP:CH2	3:A7:75:ASN:HA	2.25	0.71
3:AE:23:TRP:CH2	3:AE:75:ASN:HA	2.25	0.71
8:C0:10:PHE:CD2	10:C2:10:HIS:CB	2.73	0.71
8:C0:21:ILE:HD13	10:C2:20:ARG:CB	2.18	0.71
8:C0:23:TYR:CE2	8:CM:15:LYS:HE2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C0:82:PHE:HD1	8:C0:83:CYS:HA	1.55	0.71
10:CE:115:ASP:HB3	10:CE:121:ARG:HG3	1.70	0.71
10:CE:188:LEU:HD12	10:CE:189:VAL:H	1.54	0.71
9:CI:13:ARG:NH2	10:CJ:14:ILE:CG1	2.53	0.71
8:CR:156:ASP:HB3	8:CR:158:HIS:H	1.53	0.71
10:CT:15:ASP:O	10:CT:18:ILE:HG22	1.89	0.71
8:CW:82:PHE:HD1	8:CW:83:CYS:HA	1.55	0.71
10:CI:188:LEU:HD12	10:CI:189:VAL:H	1.54	0.71
8:Cq:56:ASN:ND2	8:Cq:198:LEU:HB3	2.05	0.71
8:Cv:10:PHE:CD2	10:Cx:10:HIS:HA	2.25	0.71
8:Cv:54:ILE:HD11	9:Cw:54:VAL:HG21	1.72	0.71
9:Cw:138:ARG:H	9:Cw:141:PHE:CB	2.03	0.71
3:AI:23:TRP:CH2	3:AI:75:ASN:HA	2.25	0.71
8:C0:10:PHE:CD2	10:C2:10:HIS:HA	2.25	0.71
8:C0:184:LYS:HG3	8:C0:185:GLY:N	2.04	0.71
9:C1:38:ALA:HB2	10:C2:35:LEU:CG	2.19	0.71
10:C2:188:LEU:HD12	10:C2:189:VAL:H	1.54	0.71
8:C5:148:ARG:HH11	8:C5:148:ARG:HG3	1.55	0.71
9:C6:24:LEU:HD21	10:C7:21:THR:C	2.14	0.71
9:CN:13:ARG:NH2	10:CO:14:ILE:CG1	2.53	0.71
9:CN:46:PHE:HZ	10:CO:47:ALA:CB	1.47	0.71
8:CR:23:TYR:CE2	8:Cv:15:LYS:HE2	2.24	0.71
8:CR:184:LYS:HG3	8:CR:185:GLY:N	2.04	0.71
9:CS:138:ARG:H	9:CS:141:PHE:CB	2.03	0.71
8:CW:54:ILE:HD11	9:CX:54:VAL:HG21	1.72	0.71
9:CX:57:ILE:HD11	10:CY:54:VAL:CG1	2.16	0.71
9:CX:138:ARG:H	9:CX:141:PHE:CB	2.03	0.71
10:CI:115:ASP:HB3	10:CI:121:ARG:HG3	1.70	0.71
8:CI:56:ASN:ND2	8:CI:198:LEU:HB3	2.05	0.71
8:CI:156:ASP:HB3	8:CI:158:HIS:H	1.54	0.71
9:Cm:46:PHE:CE1	10:Cn:47:ALA:HB2	2.20	0.71
8:Cv:184:LYS:HG3	8:Cv:185:GLY:N	2.04	0.71
3:At:126:VAL:HG23	3:At:127:LEU:HD23	1.73	0.71
8:C0:54:ILE:HD11	9:C1:54:VAL:HG21	1.72	0.71
8:CH:56:ASN:ND2	8:CH:198:LEU:HB3	2.05	0.71
8:CH:156:ASP:HB3	8:CH:158:HIS:H	1.54	0.71
5:CQ:84:LEU:HD12	5:CQ:90:LEU:CD1	2.21	0.71
8:CW:10:PHE:CD2	10:CY:10:HIS:HA	2.25	0.71
8:CW:184:LYS:HG3	8:CW:185:GLY:N	2.04	0.71
9:CX:38:ALA:HB2	10:CY:35:LEU:CG	2.19	0.71
10:CY:188:LEU:HD12	10:CY:189:VAL:H	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cc:13:ARG:NH2	10:Cd:14:ILE:CG1	2.53	0.71
8:Cg:10:PHE:HE2	10:Ci:10:HIS:HB3	1.54	0.71
8:Cg:18:ASN:CB	10:Ci:16:LYS:HZ3	2.02	0.71
8:Cl:148:ARG:HH11	8:Cl:148:ARG:HG3	1.55	0.71
9:Cm:13:ARG:NH2	10:Cn:14:ILE:CG1	2.53	0.71
5:Cu:84:LEU:HD12	5:Cu:90:LEU:CD1	2.21	0.71
8:Cv:82:PHE:HD1	8:Cv:83:CYS:HA	1.55	0.71
9:Cw:24:LEU:HD21	10:Cx:21:THR:C	2.14	0.71
3:AP:126:VAL:HG23	3:AP:127:LEU:HD23	1.73	0.71
5:Bv:83:MET:HE2	5:Bv:93:GLN:HB2	1.71	0.71
8:C5:54:ILE:HD11	9:C6:54:VAL:HG21	1.72	0.71
9:C6:13:ARG:NH2	10:C7:14:ILE:CG1	2.53	0.71
9:C6:41:ILE:O	10:C7:38:ARG:NH2	2.11	0.71
8:CH:148:ARG:HG3	8:CH:148:ARG:HH11	1.55	0.71
9:CI:46:PHE:CE1	10:CJ:47:ALA:HB2	2.20	0.71
8:CM:54:ILE:HD11	9:CN:54:VAL:HG21	1.72	0.71
8:CR:82:PHE:HD1	8:CR:83:CYS:HA	1.55	0.71
8:CW:21:ILE:HD13	10:CY:20:ARG:CB	2.18	0.71
9:CX:24:LEU:HD21	10:CY:21:THR:C	2.14	0.71
8:Cb:148:ARG:HG3	8:Cb:148:ARG:HH11	1.55	0.71
8:Cg:56:ASN:ND2	8:Cg:198:LEU:HB3	2.05	0.71
8:Cq:54:ILE:HD11	9:Cr:54:VAL:HG21	1.72	0.71
9:Cr:13:ARG:NH2	10:Cs:14:ILE:CG1	2.53	0.71
8:Cv:156:ASP:HB3	8:Cv:158:HIS:H	1.53	0.71
3:A2:126:VAL:HG23	3:A2:127:LEU:HD23	1.73	0.71
3:AY:126:VAL:HG23	3:AY:127:LEU:HD23	1.73	0.71
5:BH:83:MET:HE2	5:BH:93:GLN:HB2	1.71	0.71
6:BS:27:PHE:HD2	7:CP:27:GLU:HG3	1.54	0.71
5:Bl:83:MET:HE2	5:Bl:93:GLN:HB2	1.71	0.71
8:C0:57:LEU:CA	8:C0:198:LEU:O	2.38	0.71
8:C0:85:GLY:HA2	8:C0:140:PHE:HE2	1.54	0.71
8:CC:56:ASN:ND2	8:CC:198:LEU:HB3	2.05	0.71
9:CS:13:ARG:NH2	10:CT:14:ILE:CG1	2.53	0.71
9:CS:24:LEU:HD21	10:CT:21:THR:C	2.14	0.71
5:CV:84:LEU:HD12	5:CV:90:LEU:CD1	2.21	0.71
8:Cb:54:ILE:HD11	9:Cc:54:VAL:HG21	1.72	0.71
8:Cb:82:PHE:HD1	8:Cb:83:CYS:HA	1.55	0.71
8:Cb:82:PHE:HZ	8:Cb:94:ASP:HB3	1.54	0.71
8:Cq:22:ASP:C	10:Cs:20:ARG:NH2	2.15	0.71
2:AI:136:HIS:O	2:AI:140:ASP:HB2	1.91	0.71
3:Ad:126:VAL:HG23	3:Ad:127:LEU:HD23	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Am:136:HIS:O	2:Am:140:ASP:HB2	1.91	0.71
6:B6:27:PHE:HD2	7:C3:27:GLU:HG3	1.54	0.71
5:BR:83:MET:HE2	5:BR:93:GLN:HB2	1.71	0.71
6:Bw:27:PHE:HD2	7:Ct:27:GLU:HG3	1.54	0.71
8:C0:135:ALA:HB2	8:C0:147:LEU:HB3	1.72	0.71
9:C1:24:LEU:HD21	10:C2:21:THR:C	2.14	0.71
8:C5:82:PHE:HD1	8:C5:83:CYS:HA	1.55	0.71
8:CR:56:ASN:ND2	8:CR:198:LEU:HB3	2.05	0.71
8:CW:57:LEU:CA	8:CW:198:LEU:O	2.38	0.71
9:Cw:14:LEU:HG	10:Cx:14:ILE:CG2	2.01	0.71
5:Cz:84:LEU:HD12	5:Cz:90:LEU:CD1	2.21	0.71
3:A7:126:VAL:HG23	3:A7:127:LEU:HD23	1.73	0.71
3:AK:126:VAL:HG23	3:AK:127:LEU:HD23	1.73	0.71
2:AS:136:HIS:O	2:AS:140:ASP:HB2	1.91	0.71
2:Aw:136:HIS:O	2:Aw:140:ASP:HB2	1.91	0.71
6:Bc:65:GLU:HA	5:Ca:92:ALA:HB1	1.71	0.71
8:C0:56:ASN:ND2	8:C0:198:LEU:HB3	2.05	0.71
8:C5:82:PHE:HZ	8:C5:94:ASP:HB3	1.54	0.71
9:C6:138:ARG:H	9:C6:141:PHE:CB	2.03	0.71
9:CD:24:LEU:CD2	10:CE:24:ILE:HG21	2.05	0.71
8:CH:85:GLY:HA2	8:CH:140:PHE:HE2	1.54	0.71
8:CM:22:ASP:C	10:CO:20:ARG:NH2	2.15	0.71
8:CW:56:ASN:ND2	8:CW:198:LEU:HB3	2.05	0.71
8:CW:135:ALA:HB2	8:CW:147:LEU:HB3	1.72	0.71
9:Cc:138:ARG:H	9:Cc:141:PHE:CB	2.03	0.71
8:Cg:57:LEU:CA	8:Cg:198:LEU:O	2.38	0.71
8:Cl:10:PHE:CD2	10:Cn:10:HIS:CB	2.73	0.71
8:Cq:10:PHE:CD2	10:Cs:10:HIS:CB	2.73	0.71
10:Cs:15:ASP:O	10:Cs:18:ILE:HG22	1.89	0.71
8:Cv:56:ASN:ND2	8:Cv:198:LEU:HB3	2.05	0.71
9:Cw:13:ARG:NH2	10:Cx:14:ILE:CG1	2.53	0.71
3:Ao:126:VAL:HG23	3:Ao:127:LEU:HD23	1.73	0.71
3:Ax:126:VAL:HG23	3:Ax:127:LEU:HD23	1.73	0.71
6:BI:65:GLU:HA	5:CG:92:ALA:HB1	1.71	0.71
6:Bc:27:PHE:HD2	7:CZ:27:GLU:HG3	1.54	0.71
6:Bm:65:GLU:HA	5:Ck:92:ALA:HB1	1.71	0.71
8:CC:57:LEU:CA	8:CC:198:LEU:O	2.38	0.71
8:CC:156:ASP:HB3	8:CC:158:HIS:H	1.53	0.71
8:CW:85:GLY:HA2	8:CW:140:PHE:HE2	1.54	0.71
8:Cg:148:ARG:HH11	8:Cg:148:ARG:HG3	1.55	0.71
8:Cl:85:GLY:HA2	8:Cl:140:PHE:HE2	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cq:82:PHE:HD1	8:Cq:83:CYS:HA	1.55	0.71
8:Cq:82:PHE:HZ	8:Cq:94:ASP:HB3	1.54	0.71
3:AT:126:VAL:HG23	3:AT:127:LEU:HD23	1.73	0.71
6:B6:65:GLU:HA	5:C4:92:ALA:HB1	1.71	0.71
5:BW:83:MET:HE2	5:BW:93:GLN:HB2	1.71	0.71
8:CC:10:PHE:CD2	10:CE:10:HIS:HD2	1.57	0.71
8:CC:54:ILE:HD11	9:CD:54:VAL:HG21	1.72	0.71
8:CC:148:ARG:HH11	8:CC:148:ARG:HG3	1.55	0.71
8:CH:10:PHE:CD2	10:CJ:10:HIS:CB	2.73	0.71
8:CM:10:PHE:CD2	10:CO:10:HIS:CB	2.73	0.71
8:CM:85:GLY:HA2	8:CM:140:PHE:HE2	1.54	0.71
10:CO:15:ASP:O	10:CO:18:ILE:HG22	1.89	0.71
8:CR:10:PHE:CD2	10:CT:10:HIS:CB	2.73	0.71
8:CR:85:GLY:HA2	8:CR:140:PHE:HE2	1.54	0.71
9:CX:13:ARG:NH2	10:CY:14:ILE:CG1	2.53	0.71
8:Cg:54:ILE:HD11	9:Ch:54:VAL:HG21	1.72	0.71
8:Cg:156:ASP:HB3	8:Cg:158:HIS:H	1.53	0.71
8:Cv:85:GLY:HA2	8:Cv:140:PHE:HE2	1.54	0.71
5:B0:83:MET:HE2	5:B0:93:GLN:HB2	1.71	0.71
8:C5:10:PHE:CD2	10:C7:10:HIS:HA	2.25	0.71
8:C5:56:ASN:ND2	8:C5:198:LEU:HB3	2.05	0.71
8:CM:82:PHE:HD1	8:CM:83:CYS:HA	1.55	0.71
8:CM:82:PHE:HZ	8:CM:94:ASP:HB3	1.54	0.71
8:CR:10:PHE:HE2	10:CT:10:HIS:HB3	1.54	0.71
8:CW:172:ASN:OD1	8:CW:175:LYS:HB2	1.91	0.71
8:Cb:56:ASN:ND2	8:Cb:198:LEU:HB3	2.05	0.71
8:Cq:172:ASN:OD1	8:Cq:175:LYS:HB2	1.91	0.71
6:B1:27:PHE:HD2	7:Cy:27:GLU:HG3	1.54	0.70
8:C0:172:ASN:OD1	8:C0:175:LYS:HB2	1.91	0.70
9:C1:13:ARG:NH2	10:C2:14:ILE:CG1	2.53	0.70
9:CD:24:LEU:HD13	10:CE:21:THR:CG2	2.20	0.70
8:CH:135:ALA:HB2	8:CH:147:LEU:HB3	1.72	0.70
8:CM:172:ASN:OD1	8:CM:175:LYS:HB2	1.91	0.70
8:Cb:10:PHE:CD2	10:Cd:10:HIS:HA	2.25	0.70
9:Ch:24:LEU:HD13	10:Ci:21:THR:CG2	2.20	0.70
5:Cp:84:LEU:HD12	5:Cp:90:LEU:CD1	2.21	0.70
8:Cq:85:GLY:HA2	8:Cq:140:PHE:HE2	1.54	0.70
8:Cv:10:PHE:CD2	10:Cx:10:HIS:CB	2.73	0.70
8:Cv:10:PHE:HE2	10:Cx:10:HIS:HB3	1.54	0.70
8:Cv:21:ILE:HD13	10:Cx:20:ARG:CB	2.18	0.70
3:AE:126:VAL:HG23	3:AE:127:LEU:HD23	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BN:65:GLU:HA	5:CL:92:ALA:HB1	1.71	0.70
8:C5:172:ASN:OD1	8:C5:175:LYS:HB2	1.91	0.70
8:CC:22:ASP:C	10:CE:20:ARG:NH2	2.15	0.70
9:CD:24:LEU:HD21	10:CE:21:THR:C	2.14	0.70
9:CI:38:ALA:CB	10:CJ:35:LEU:HD11	2.16	0.70
5:CL:84:LEU:HD12	5:CL:90:LEU:CD1	2.21	0.70
8:CR:21:ILE:HD13	10:CT:20:ARG:CB	2.18	0.70
8:CR:172:ASN:OD1	8:CR:175:LYS:HB2	1.91	0.70
9:CS:14:LEU:HG	10:CT:14:ILE:CG2	2.01	0.70
8:CW:20:HIS:O	8:CW:24:LEU:HD13	1.91	0.70
8:Cb:172:ASN:OD1	8:Cb:175:LYS:HB2	1.91	0.70
8:Cl:135:ALA:HB2	8:Cl:147:LEU:HB3	1.72	0.70
8:Cv:172:ASN:OD1	8:Cv:175:LYS:HB2	1.91	0.70
3:AO:102:ILE:CD1	3:AO:149:ASP:HB3	2.09	0.70
3:Ai:126:VAL:HG23	3:Ai:127:LEU:HD23	1.73	0.70
6:BX:27:PHE:HD2	7:CU:27:GLU:HG3	1.54	0.70
8:C0:20:HIS:O	8:C0:24:LEU:HD13	1.91	0.70
7:CA:99:ALA:HB1	7:CA:150:ARG:HB2	1.73	0.70
8:CH:20:HIS:O	8:CH:24:LEU:HD13	1.91	0.70
9:CS:31:LEU:HD12	10:CT:28:ILE:HG23	0.72	0.70
8:Cg:10:PHE:CD2	10:Ci:10:HIS:HA	2.25	0.70
8:Cg:22:ASP:C	10:Ci:20:ARG:NH2	2.15	0.70
9:Ch:24:LEU:CD2	10:Ci:24:ILE:HG21	2.05	0.70
8:Cl:20:HIS:O	8:Cl:24:LEU:HD13	1.91	0.70
9:Cw:31:LEU:HD12	10:Cx:28:ILE:HG23	0.72	0.70
4:B7:6:VAL:HG13	4:B7:7:LEU:H	1.57	0.70
4:Bd:6:VAL:HG13	4:Bd:7:LEU:H	1.57	0.70
6:Br:65:GLU:HA	5:Cp:92:ALA:HB1	1.71	0.70
9:C1:13:ARG:CZ	10:C2:14:ILE:CD1	2.66	0.70
8:C5:57:LEU:CA	8:C5:198:LEU:O	2.38	0.70
7:CP:7:CYS:SG	7:CP:139:CYS:HA	2.32	0.70
8:Cg:82:PHE:HD1	8:Cg:83:CYS:HA	1.55	0.70
9:Ch:24:LEU:HD21	10:Ci:21:THR:C	2.14	0.70
8:Cl:82:PHE:HD1	8:Cl:83:CYS:HA	1.55	0.70
7:Ct:7:CYS:SG	7:Ct:139:CYS:HA	2.32	0.70
9:C1:27:ILE:CG2	10:C2:28:ILE:CD1	2.68	0.70
8:C5:20:HIS:O	8:C5:24:LEU:HD13	1.91	0.70
9:C6:24:LEU:HD13	10:C7:21:THR:CG2	2.20	0.70
8:CC:10:PHE:CD2	10:CE:10:HIS:HA	2.25	0.70
8:CC:82:PHE:HD1	8:CC:83:CYS:HA	1.55	0.70
9:CX:27:ILE:CG2	10:CY:28:ILE:CD1	2.68	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cb:57:LEU:CA	8:Cb:198:LEU:O	2.38	0.70
9:Cc:24:LEU:HD13	10:Cd:21:THR:CG2	2.20	0.70
7:Ce:99:ALA:HB1	7:Ce:150:ARG:HB2	1.73	0.70
8:Cg:10:PHE:CD2	10:Ci:10:HIS:HD2	1.57	0.70
9:Cm:138:ARG:H	9:Cm:141:PHE:CB	2.03	0.70
3:As:102:ILE:CD1	3:As:149:ASP:HB3	2.09	0.70
6:Bw:102:ILE:HG12	6:Bw:150:LEU:CG	2.22	0.70
8:CH:10:PHE:HE2	10:CJ:10:HIS:HB3	1.54	0.70
8:CH:82:PHE:HD1	8:CH:83:CYS:HA	1.55	0.70
9:CI:138:ARG:H	9:CI:141:PHE:CB	2.03	0.70
8:CR:14:VAL:CG1	10:CT:13:ILE:CG2	2.64	0.70
8:Cb:20:HIS:O	8:Cb:24:LEU:HD13	1.91	0.70
9:Cm:38:ALA:CB	10:Cn:35:LEU:HD11	2.16	0.70
9:Cr:38:ALA:HB3	10:Cs:35:LEU:CD1	2.15	0.70
9:Cw:42:ASP:HA	10:Cx:38:ARG:NE	2.06	0.70
6:BS:102:ILE:HG12	6:BS:150:LEU:CG	2.22	0.70
5:CB:84:LEU:HD12	5:CB:90:LEU:CD1	2.21	0.70
8:CC:135:ALA:HB2	8:CC:147:LEU:HB3	1.72	0.70
9:CD:50:ILE:HD12	10:CE:50:LEU:HD22	1.74	0.70
10:CE:78:SER:H	10:CE:81:PHE:HD2	1.39	0.70
9:CS:42:ASP:HA	10:CT:38:ARG:NE	2.06	0.70
7:CU:7:CYS:SG	7:CU:139:CYS:HA	2.32	0.70
9:CX:13:ARG:CZ	10:CY:14:ILE:CD1	2.66	0.70
10:Cd:78:SER:H	10:Cd:81:PHE:HD2	1.39	0.70
8:Cg:135:ALA:HB2	8:Cg:147:LEU:HB3	1.72	0.70
9:Ch:50:ILE:HD12	10:CI:50:LEU:HD22	1.74	0.70
8:Cl:54:ILE:HD11	9:Cm:54:VAL:HG21	1.72	0.70
8:Cl:172:ASN:OD1	8:Cl:175:LYS:HB2	1.91	0.70
9:Cw:31:LEU:HD21	10:Cx:31:VAL:HB	1.74	0.70
7:Cy:7:CYS:SG	7:Cy:139:CYS:HA	2.32	0.70
2:AN:136:HIS:O	2:AN:140:ASP:HB2	1.91	0.70
6:BI:102:ILE:HD11	6:BI:149:ASP:HB3	1.74	0.70
4:BY:66:ASP:CG	7:CU:84:LEU:HD21	2.17	0.70
6:Bm:102:ILE:HD11	6:Bm:149:ASP:HB3	1.74	0.70
9:C1:31:LEU:HD21	10:C2:31:VAL:HB	1.74	0.70
7:CF:99:ALA:HB1	7:CF:150:ARG:HB2	1.73	0.70
8:CH:54:ILE:HD11	9:CI:54:VAL:HG21	1.72	0.70
9:CN:138:ARG:H	9:CN:141:PHE:CB	2.03	0.70
9:CS:31:LEU:HD21	10:CT:31:VAL:HB	1.74	0.70
7:CZ:99:ALA:HB1	7:CZ:150:ARG:HB2	1.73	0.70
9:Cc:38:ALA:HB2	10:Cd:35:LEU:CG	2.18	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ci:78:SER:H	10:Ci:81:PHE:HD2	1.39	0.70
2:Ar:136:HIS:O	2:Ar:140:ASP:HB2	1.91	0.70
4:B2:66:ASP:CG	7:Cy:84:LEU:HD21	2.17	0.70
6:BN:102:ILE:HG12	6:BN:150:LEU:CG	2.22	0.70
5:Bq:83:MET:HE2	5:Bq:93:GLN:HB2	1.71	0.70
6:Br:102:ILE:HG12	6:Br:150:LEU:CG	2.22	0.70
7:C3:99:ALA:HB1	7:C3:150:ARG:HB2	1.73	0.70
10:C7:78:SER:H	10:C7:81:PHE:HD2	1.39	0.70
8:CH:172:ASN:OD1	8:CH:175:LYS:HB2	1.91	0.70
9:CN:31:LEU:HD12	10:CO:28:ILE:CB	2.21	0.70
9:CX:31:LEU:HD21	10:CY:31:VAL:HB	1.74	0.70
5:Ca:84:LEU:HD12	5:Ca:90:LEU:CD1	2.21	0.70
7:Cj:99:ALA:HB1	7:Cj:150:ARG:HB2	1.73	0.70
8:Cl:10:PHE:HE2	10:Cn:10:HIS:HB3	1.54	0.70
9:Cr:31:LEU:HD12	10:Cs:28:ILE:CB	2.21	0.70
9:Cr:31:LEU:HD21	10:Cs:31:VAL:HB	1.74	0.70
5:BM:83:MET:HE2	5:BM:93:GLN:HB2	1.71	0.70
5:C4:84:LEU:HD12	5:C4:90:LEU:CD1	2.21	0.70
9:C6:13:ARG:CZ	10:C7:14:ILE:CD1	2.66	0.70
9:C6:38:ALA:HB2	10:C7:35:LEU:CG	2.18	0.70
9:CD:31:LEU:HD12	10:CE:28:ILE:HG23	0.72	0.70
9:CD:138:ARG:H	9:CD:141:PHE:CB	2.03	0.70
8:CM:10:PHE:HE2	10:CO:10:HIS:HB3	1.54	0.70
8:CM:101:SER:CB	8:CM:104:ILE:HG13	2.19	0.70
9:CN:31:LEU:HD21	10:CO:31:VAL:HB	1.74	0.70
7:CP:99:ALA:HB1	7:CP:150:ARG:HB2	1.73	0.70
9:CS:27:ILE:CG2	10:CT:28:ILE:CD1	2.68	0.70
8:Cl:21:ILE:HD13	10:Cn:20:ARG:CB	2.18	0.70
8:Cq:20:HIS:O	8:Cq:24:LEU:HD13	1.91	0.70
9:Cr:138:ARG:H	9:Cr:141:PHE:CB	2.03	0.70
10:Cs:99:THR:O	10:Cs:101:PRO:HD3	1.92	0.70
7:Ct:99:ALA:HB1	7:Ct:150:ARG:HB2	1.73	0.70
9:Cw:27:ILE:CG2	10:Cx:28:ILE:CD1	2.68	0.70
9:Cw:162:VAL:HG12	9:Cw:163:THR:N	2.07	0.70
3:AJ:126:VAL:HG23	3:AJ:127:LEU:HD23	1.73	0.69
2:Ac:136:HIS:O	2:Ac:140:ASP:HB2	1.91	0.69
3:An:126:VAL:HG23	3:An:127:LEU:HD23	1.73	0.69
3:Ay:126:VAL:HG23	3:Ay:127:LEU:HD23	1.73	0.69
6:B1:102:ILE:HG12	6:B1:150:LEU:CG	2.22	0.69
4:BP:18:ARG:HH22	4:BP:124:CYS:HB2	1.57	0.69
4:Bi:6:VAL:HG13	4:Bi:7:LEU:H	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bt:18:ARG:HH22	4:Bt:124:CYS:HB2	1.57	0.69
10:C2:78:SER:H	10:C2:81:PHE:HD2	1.39	0.69
8:CH:21:ILE:HD13	10:CJ:20:ARG:CB	2.18	0.69
9:CI:31:LEU:HD21	10:CJ:31:VAL:HB	1.74	0.69
9:CN:38:ALA:HB3	10:CO:35:LEU:CD1	2.15	0.69
10:CO:99:THR:O	10:CO:101:PRO:HD3	1.92	0.69
9:CS:24:LEU:CD2	10:CT:21:THR:O	2.26	0.69
9:CS:162:VAL:HG12	9:CS:163:THR:N	2.07	0.69
8:Cb:135:ALA:HB2	8:Cb:147:LEU:HB3	1.72	0.69
8:Cg:20:HIS:O	8:Cg:24:LEU:HD13	1.91	0.69
9:Cr:42:ASP:HA	10:Cs:38:ARG:NE	2.06	0.69
2:A6:136:HIS:O	2:A6:140:ASP:HB2	1.91	0.69
3:AY:102:ILE:CD1	3:AY:149:ASP:HB3	2.09	0.69
3:Ad:102:ILE:CD1	3:Ad:149:ASP:HB3	2.09	0.69
4:BE:6:VAL:HG13	4:BE:7:LEU:H	1.57	0.69
4:BF:18:ARG:HH22	4:BF:124:CYS:HB2	1.57	0.69
4:BJ:66:ASP:CG	7:CF:84:LEU:HD21	2.17	0.69
6:BX:102:ILE:HG12	6:BX:150:LEU:CG	2.22	0.69
4:BY:6:VAL:HG13	4:BY:7:LEU:H	1.57	0.69
4:Bn:66:ASP:CG	7:Cj:84:LEU:HD21	2.17	0.69
4:Bx:6:VAL:HG13	4:Bx:7:LEU:H	1.57	0.69
9:CI:31:LEU:HD12	10:CJ:28:ILE:HG23	0.72	0.69
8:CM:20:HIS:O	8:CM:24:LEU:HD13	1.91	0.69
8:CR:20:HIS:O	8:CR:24:LEU:HD13	1.91	0.69
9:CS:43:PRO:HD3	10:CT:38:ARG:HG2	1.75	0.69
10:CY:78:SER:H	10:CY:81:PHE:HD2	1.39	0.69
9:Cc:50:ILE:HD12	10:Cd:50:LEU:HD22	1.74	0.69
9:Ch:31:LEU:HD12	10:CI:28:ILE:HG23	0.72	0.69
9:Ch:138:ARG:H	9:Ch:141:PHE:CB	2.03	0.69
9:Cm:31:LEU:HD21	10:Cn:31:VAL:HB	1.74	0.69
8:Cq:57:LEU:CA	8:Cq:198:LEU:O	2.38	0.69
9:Cr:162:VAL:HG12	9:Cr:163:THR:N	2.07	0.69
9:Cw:43:PRO:HD3	10:Cx:38:ARG:HG2	1.75	0.69
3:AU:126:VAL:HG23	3:AU:127:LEU:HD23	1.73	0.69
4:B2:6:VAL:HG13	4:B2:7:LEU:H	1.57	0.69
6:BD:102:ILE:HG12	6:BD:150:LEU:CG	2.22	0.69
6:BI:102:ILE:HG12	6:BI:150:LEU:CG	2.22	0.69
5:BR:20:GLN:HE21	5:BR:135:TRP:HE1	1.41	0.69
4:Bj:18:ARG:HH22	4:Bj:124:CYS:HB2	1.57	0.69
4:Bs:6:VAL:HG13	4:Bs:7:LEU:H	1.57	0.69
5:Bv:20:GLN:HE21	5:Bv:135:TRP:HE1	1.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C1:42:ASP:HA	10:C2:38:ARG:NE	2.06	0.69
10:C2:99:THR:O	10:C2:101:PRO:HD3	1.92	0.69
8:C5:135:ALA:HB2	8:C5:147:LEU:HB3	1.72	0.69
9:C6:50:ILE:HD12	10:C7:50:LEU:HD22	1.74	0.69
9:C6:53:ARG:CG	10:C7:54:VAL:HG11	2.20	0.69
7:CA:7:CYS:SG	7:CA:139:CYS:HA	2.32	0.69
8:CC:20:HIS:O	8:CC:24:LEU:HD13	1.91	0.69
10:CJ:78:SER:H	10:CJ:81:PHE:HD2	1.39	0.69
7:CK:7:CYS:SG	7:CK:139:CYS:HA	2.32	0.69
9:CN:31:LEU:HD12	10:CO:28:ILE:HG23	0.72	0.69
9:CN:42:ASP:HA	10:CO:38:ARG:NE	2.06	0.69
9:CN:162:VAL:HG12	9:CN:163:THR:N	2.07	0.69
9:CX:42:ASP:HA	10:CY:38:ARG:NE	2.06	0.69
9:Cc:13:ARG:CZ	10:Cd:14:ILE:CD1	2.66	0.69
7:Ce:7:CYS:SG	7:Ce:139:CYS:HA	2.32	0.69
8:Cg:10:PHE:CD2	10:Ci:10:HIS:CB	2.73	0.69
9:Cm:31:LEU:HD12	10:Cn:28:ILE:CB	2.21	0.69
9:Cm:31:LEU:HD12	10:Cn:28:ILE:HG23	0.72	0.69
10:Cn:78:SER:H	10:Cn:81:PHE:HD2	1.39	0.69
8:Cq:10:PHE:HE2	10:Cs:10:HIS:HB3	1.54	0.69
8:Cq:101:SER:CB	8:Cq:104:ILE:HG13	2.19	0.69
9:Cw:38:ALA:HB2	10:Cx:35:LEU:CG	2.18	0.69
2:A1:136:HIS:O	2:A1:140:ASP:HB2	1.91	0.69
2:AD:136:HIS:O	2:AD:140:ASP:HB2	1.91	0.69
3:AT:102:ILE:CD1	3:AT:149:ASP:HB3	2.09	0.69
6:B1:102:ILE:HD11	6:B1:149:ASP:HB3	1.74	0.69
4:B3:18:ARG:HH22	4:B3:124:CYS:HB2	1.57	0.69
4:B7:66:ASP:CG	7:C3:84:LEU:HD21	2.17	0.69
6:BX:102:ILE:HD11	6:BX:149:ASP:HB3	1.74	0.69
4:BZ:18:ARG:HH22	4:BZ:124:CYS:HB2	1.57	0.69
6:Bh:102:ILE:HG12	6:Bh:150:LEU:CG	2.22	0.69
6:Bm:102:ILE:HG12	6:Bm:150:LEU:CG	2.22	0.69
8:C0:67:SER:OG	8:C0:174:GLY:HA2	1.93	0.69
9:CI:24:LEU:HD13	10:CJ:21:THR:CG2	2.20	0.69
9:CI:31:LEU:HD12	10:CJ:28:ILE:CB	2.21	0.69
9:CS:24:LEU:HD13	10:CT:21:THR:CG2	2.20	0.69
8:CW:67:SER:OG	8:CW:174:GLY:HA2	1.93	0.69
10:CY:99:THR:O	10:CY:101:PRO:HD3	1.92	0.69
9:Cc:31:LEU:HD12	10:Cd:28:ILE:HG23	0.72	0.69
9:Cm:24:LEU:HD13	10:Cn:21:THR:CG2	2.20	0.69
7:Co:7:CYS:SG	7:Co:139:CYS:HA	2.32	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:31:LEU:HD12	10:Cs:28:ILE:HG23	0.72	0.69
8:Cv:20:HIS:O	8:Cv:24:LEU:HD13	1.91	0.69
3:AA:126:VAL:HG23	3:AA:127:LEU:HD23	1.73	0.69
3:AO:126:VAL:HG23	3:AO:127:LEU:HD23	1.73	0.69
2:AX:136:HIS:O	2:AX:140:ASP:HB2	1.91	0.69
3:Ae:126:VAL:HG23	3:Ae:127:LEU:HD23	1.73	0.69
2:Ah:136:HIS:O	2:Ah:140:ASP:HB2	1.91	0.69
5:BH:136:HIS:O	5:BH:140:ASP:HB2	1.93	0.69
4:BO:6:VAL:HG13	4:BO:7:LEU:H	1.57	0.69
4:BT:6:VAL:HG13	4:BT:7:LEU:H	1.57	0.69
4:Bd:66:ASP:CG	7:CZ:84:LEU:HD21	2.17	0.69
5:Bl:136:HIS:O	5:Bl:140:ASP:HB2	1.93	0.69
9:C1:162:VAL:HG12	9:C1:163:THR:N	2.07	0.69
9:C6:43:PRO:HD3	10:C7:38:ARG:HG2	1.75	0.69
8:CC:10:PHE:CD2	10:CE:10:HIS:CB	2.73	0.69
9:CD:43:PRO:HD3	10:CE:38:ARG:HG2	1.75	0.69
10:CE:99:THR:O	10:CE:101:PRO:HD3	1.92	0.69
8:CM:57:LEU:CA	8:CM:198:LEU:O	2.38	0.69
9:CX:162:VAL:HG12	9:CX:163:THR:N	2.07	0.69
9:Cc:42:ASP:HA	10:Cd:38:ARG:NE	2.06	0.69
9:Cc:43:PRO:HD3	10:Cd:38:ARG:HG2	1.75	0.69
5:Ck:84:LEU:HD12	5:Ck:90:LEU:CD1	2.21	0.69
9:Cr:13:ARG:NH1	10:Cs:14:ILE:CG1	2.37	0.69
9:Cw:13:ARG:CZ	10:Cx:14:ILE:CD1	2.66	0.69
3:A2:102:ILE:CD1	3:A2:149:ASP:HB3	2.09	0.69
3:A7:102:ILE:CD1	3:A7:149:ASP:HB3	2.09	0.69
2:AS:18:LYS:HZ2	2:AS:82:SER:HA	1.56	0.69
3:As:126:VAL:HG23	3:As:127:LEU:HD23	1.73	0.69
5:B5:20:GLN:HE21	5:B5:135:TRP:HE1	1.41	0.69
5:BC:20:GLN:HE21	5:BC:135:TRP:HE1	1.41	0.69
6:BD:102:ILE:HD11	6:BD:149:ASP:HB3	1.74	0.69
5:BM:20:GLN:HE21	5:BM:135:TRP:HE1	1.41	0.69
5:Bb:20:GLN:HE21	5:Bb:135:TRP:HE1	1.41	0.69
6:Br:102:ILE:HD11	6:Br:149:ASP:HB3	1.74	0.69
6:Br:145:ARG:HA	6:Br:148:LYS:HB2	1.75	0.69
9:C6:31:LEU:HD12	10:C7:28:ILE:HG23	0.72	0.69
9:C6:42:ASP:HA	10:C7:38:ARG:NE	2.06	0.69
8:CC:172:ASN:OD1	8:CC:175:LYS:HB2	1.91	0.69
9:CD:31:LEU:HD21	10:CE:31:VAL:HB	1.74	0.69
5:CG:84:LEU:HD12	5:CG:90:LEU:CD1	2.21	0.69
10:CO:139:THR:HG22	10:CO:171:PHE:CE2	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CS:38:ALA:HB2	10:CT:35:LEU:CG	2.18	0.69
9:Cc:53:ARG:CG	10:Cd:54:VAL:HG11	2.20	0.69
9:Ch:31:LEU:HD21	10:Ci:31:VAL:HB	1.74	0.69
9:Ch:43:PRO:HD3	10:Ci:38:ARG:HG2	1.75	0.69
10:Ci:99:THR:O	10:Ci:101:PRO:HD3	1.92	0.69
3:A3:126:VAL:HG23	3:A3:127:LEU:HD23	1.73	0.69
3:AZ:126:VAL:HG23	3:AZ:127:LEU:HD23	1.73	0.69
4:BE:66:ASP:CG	7:CA:84:LEU:HD21	2.17	0.69
6:BI:145:ARG:HA	6:BI:148:LYS:HB2	1.75	0.69
6:BN:145:ARG:HA	6:BN:148:LYS:HB2	1.75	0.69
6:Bc:145:ARG:HA	6:Bc:148:LYS:HB2	1.75	0.69
6:Bh:102:ILE:HD11	6:Bh:149:ASP:HB3	1.74	0.69
4:Bi:66:ASP:CG	7:Ce:84:LEU:HD21	2.17	0.69
6:Bm:145:ARG:HA	6:Bm:148:LYS:HB2	1.75	0.69
4:Bn:6:VAL:HG13	4:Bn:7:LEU:H	1.57	0.69
5:Bq:20:GLN:HE21	5:Bq:135:TRP:HE1	1.41	0.69
9:C1:43:PRO:HD3	10:C2:38:ARG:HG2	1.75	0.69
9:CI:43:PRO:HD3	10:CJ:38:ARG:HG2	1.75	0.69
9:Cc:31:LEU:HD21	10:Cd:31:VAL:HB	1.74	0.69
9:Cm:43:PRO:HD3	10:Cn:38:ARG:HG2	1.75	0.69
10:Cs:139:THR:HG22	10:Cs:171:PHE:CE2	2.28	0.69
8:Cv:67:SER:OG	8:Cv:174:GLY:HA2	1.93	0.69
9:Cw:24:LEU:CD2	10:Cx:21:THR:O	2.26	0.69
9:Cw:24:LEU:HD13	10:Cx:21:THR:CG2	2.20	0.69
7:Cy:99:ALA:HB1	7:Cy:150:ARG:HB2	1.73	0.69
2:Aw:18:LYS:HZ2	2:Aw:82:SER:HA	1.56	0.69
3:Ax:102:ILE:CD1	3:Ax:149:ASP:HB3	2.09	0.69
6:B1:145:ARG:HA	6:B1:148:LYS:HB2	1.75	0.69
5:B5:136:HIS:O	5:B5:140:ASP:HB2	1.93	0.69
6:B6:102:ILE:HG12	6:B6:150:LEU:CG	2.22	0.69
6:B6:145:ARG:HA	6:B6:148:LYS:HB2	1.75	0.69
6:BD:126:VAL:HG23	6:BD:127:LEU:HD23	1.74	0.69
5:BH:20:GLN:HE21	5:BH:135:TRP:HE1	1.41	0.69
4:BJ:6:VAL:HG13	4:BJ:7:LEU:H	1.57	0.69
4:BJ:39:ALA:CB	10:CJ:137:PHE:HZ	2.06	0.69
6:BN:102:ILE:HD11	6:BN:149:ASP:HB3	1.74	0.69
6:BS:89:VAL:HG13	5:CQ:68:ALA:CA	2.23	0.69
6:BX:145:ARG:HA	6:BX:148:LYS:HB2	1.75	0.69
5:Bb:136:HIS:O	5:Bb:140:ASP:HB2	1.93	0.69
6:Bc:102:ILE:HG12	6:Bc:150:LEU:CG	2.22	0.69
5:Bg:20:GLN:HE21	5:Bg:135:TRP:HE1	1.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bh:126:VAL:HG23	6:Bh:127:LEU:HD23	1.74	0.69
5:Bl:20:GLN:HE21	5:Bl:135:TRP:HE1	1.41	0.69
4:Bn:39:ALA:CB	10:Cn:137:PHE:HZ	2.06	0.69
6:Bw:89:VAL:HG13	5:Cu:68:ALA:CA	2.23	0.69
8:C0:15:LYS:CE	8:CM:23:TYR:CE2	2.76	0.69
8:C0:135:ALA:CB	8:C0:147:LEU:HB3	2.23	0.69
9:C6:31:LEU:HD21	10:C7:31:VAL:HB	1.74	0.69
8:CC:67:SER:OG	8:CC:174:GLY:HA2	1.93	0.69
10:CE:139:THR:HG22	10:CE:171:PHE:CE2	2.28	0.69
7:CF:7:CYS:SG	7:CF:139:CYS:HA	2.32	0.69
10:CJ:45:ARG:HB3	10:CJ:45:ARG:NH1	2.08	0.69
8:CM:28:LEU:HD11	10:CO:27:SER:HB2	0.69	0.69
9:CN:13:ARG:NH1	10:CO:14:ILE:CG1	2.37	0.69
9:CN:24:LEU:CD2	10:CO:21:THR:O	2.26	0.69
9:CN:43:PRO:HD3	10:CO:38:ARG:HG2	1.75	0.69
8:CR:67:SER:OG	8:CR:174:GLY:HA2	1.93	0.69
9:CS:13:ARG:CZ	10:CT:14:ILE:CD1	2.66	0.69
10:CT:99:THR:O	10:CT:101:PRO:HD3	1.92	0.69
7:CU:99:ALA:HB1	7:CU:150:ARG:HB2	1.73	0.69
8:CW:15:LYS:CE	8:Cq:23:TYR:CE2	2.76	0.69
8:CW:135:ALA:CB	8:CW:147:LEU:HB3	2.23	0.69
9:CX:43:PRO:HD3	10:CY:38:ARG:HG2	1.75	0.69
8:Cb:67:SER:OG	8:Cb:174:GLY:HA2	1.93	0.69
8:Cg:172:ASN:OD1	8:Cg:175:LYS:HB2	1.91	0.69
10:Ci:45:ARG:HB3	10:Ci:45:ARG:NH1	2.08	0.69
10:Ci:139:THR:HG22	10:Ci:171:PHE:CE2	2.28	0.69
7:Cj:7:CYS:SG	7:Cj:139:CYS:HA	2.32	0.69
9:Cm:50:ILE:HD12	10:Cn:50:LEU:HD22	1.74	0.69
10:Cn:45:ARG:NH1	10:Cn:45:ARG:HB3	2.08	0.69
8:Cq:21:ILE:HD13	10:Cs:20:ARG:CB	2.18	0.69
9:Cr:43:PRO:HD3	10:Cs:38:ARG:HG2	1.75	0.69
3:AK:11:ASP:CG	3:AK:137:ARG:HH21	2.01	0.69
3:Aj:126:VAL:HG23	3:Aj:127:LEU:HD23	1.73	0.69
3:Ao:11:ASP:CG	3:Ao:137:ARG:HH21	2.01	0.69
4:BO:66:ASP:CG	7:CK:84:LEU:HD21	2.17	0.69
6:Bh:145:ARG:HA	6:Bh:148:LYS:HB2	1.75	0.69
4:Bs:66:ASP:CG	7:Co:84:LEU:HD21	2.17	0.69
8:C5:67:SER:OG	8:C5:174:GLY:HA2	1.93	0.69
10:CE:45:ARG:HB3	10:CE:45:ARG:NH1	2.08	0.69
9:CI:50:ILE:HD12	10:CJ:50:LEU:HD22	1.74	0.69
10:CO:45:ARG:NH1	10:CO:45:ARG:HB3	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cd:45:ARG:HB3	10:Cd:45:ARG:NH1	2.08	0.69
5:Cf:84:LEU:HD12	5:Cf:90:LEU:CD1	2.21	0.69
8:Cg:135:ALA:CB	8:Cg:147:LEU:HB3	2.23	0.69
9:Ch:53:ARG:CG	10:Ci:54:VAL:HG11	2.20	0.69
8:Cq:28:LEU:HD11	10:Cs:27:SER:HB2	0.69	0.69
10:Cs:45:ARG:HB3	10:Cs:45:ARG:NH1	2.08	0.69
3:AF:11:ASP:CG	3:AF:137:ARG:HH21	2.01	0.69
6:B1:89:VAL:HG13	5:Cz:68:ALA:CA	2.23	0.69
6:BD:145:ARG:HA	6:BD:148:LYS:HB2	1.75	0.69
5:BM:136:HIS:O	5:BM:140:ASP:HB2	1.93	0.69
4:BO:39:ALA:CB	10:CO:137:PHE:HZ	2.06	0.69
6:BX:89:VAL:HG13	5:CV:68:ALA:CA	2.23	0.69
4:Bs:39:ALA:CB	10:Cs:137:PHE:HZ	2.06	0.69
9:C6:162:VAL:HG12	9:C6:163:THR:N	2.07	0.69
10:C7:45:ARG:HB3	10:C7:45:ARG:NH1	2.08	0.69
8:CC:135:ALA:CB	8:CC:147:LEU:HB3	2.23	0.69
9:CD:53:ARG:CG	10:CE:54:VAL:HG11	2.20	0.69
7:CK:99:ALA:HB1	7:CK:150:ARG:HB2	1.73	0.69
5:CL:136:HIS:O	5:CL:140:ASP:HB2	1.94	0.69
8:CM:21:ILE:HD13	10:CO:20:ARG:CB	2.18	0.69
8:CR:28:LEU:HD11	10:CT:27:SER:HB2	0.69	0.69
9:CS:31:LEU:HD12	10:CT:28:ILE:CB	2.21	0.69
8:Cg:67:SER:OG	8:Cg:174:GLY:HA2	1.93	0.69
7:Co:99:ALA:HB1	7:Co:150:ARG:HB2	1.73	0.69
5:Cp:136:HIS:O	5:Cp:140:ASP:HB2	1.94	0.69
9:Cw:31:LEU:HD12	10:Cx:28:ILE:CB	2.21	0.69
9:Cw:50:ILE:HD12	10:Cx:50:LEU:HD22	1.74	0.69
10:Cx:99:THR:O	10:Cx:101:PRO:HD3	1.92	0.69
3:AE:23:TRP:NE1	3:AE:78:LYS:HZ2	1.90	0.68
3:Ae:58:ILE:HG22	3:Ae:66:PHE:CE1	2.29	0.68
3:Aj:11:ASP:CG	3:Aj:137:ARG:HH21	2.01	0.68
3:At:11:ASP:CG	3:At:137:ARG:HH21	2.01	0.68
5:BC:136:HIS:O	5:BC:140:ASP:HB2	1.93	0.68
5:Bg:136:HIS:O	5:Bg:140:ASP:HB2	1.93	0.68
4:Bi:39:ALA:CB	10:Ci:137:PHE:HZ	2.06	0.68
4:Bo:18:ARG:HH22	4:Bo:124:CYS:HB2	1.57	0.68
4:Bx:66:ASP:CG	7:Ct:84:LEU:HD21	2.17	0.68
9:CS:50:ILE:HD12	10:CT:50:LEU:HD22	1.74	0.68
7:CZ:7:CYS:SG	7:CZ:139:CYS:HA	2.32	0.68
8:Cb:135:ALA:CB	8:Cb:147:LEU:HB3	2.23	0.68
9:Cc:162:VAL:HG12	9:Cc:163:THR:N	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:24:LEU:CD2	10:Cs:21:THR:O	2.26	0.68
8:Cv:28:LEU:HD11	10:Cx:27:SER:HB2	0.69	0.68
3:A7:23:TRP:NE1	3:A7:78:LYS:HZ2	1.90	0.68
3:AA:58:ILE:HG22	3:AA:66:PHE:CE1	2.29	0.68
3:AF:126:VAL:HG23	3:AF:127:LEU:HD23	1.73	0.68
2:AI:101:HIS:CG	2:AI:146:ILE:HG22	2.29	0.68
3:AK:58:ILE:HG22	3:AK:66:PHE:CE1	2.29	0.68
3:AP:11:ASP:CG	3:AP:137:ARG:HH21	2.01	0.68
2:Am:101:HIS:CG	2:Am:146:ILE:HG22	2.29	0.68
3:Ao:58:ILE:HG22	3:Ao:66:PHE:CE1	2.29	0.68
3:As:23:TRP:NE1	3:As:78:LYS:HZ2	1.90	0.68
4:BE:39:ALA:CB	10:CE:137:PHE:HZ	2.06	0.68
6:BS:145:ARG:HA	6:BS:148:LYS:HB2	1.75	0.68
5:BW:20:GLN:HE21	5:BW:135:TRP:HE1	1.41	0.68
5:Bq:136:HIS:O	5:Bq:140:ASP:HB2	1.93	0.68
6:Br:89:VAL:HG13	5:Cp:68:ALA:CA	2.23	0.68
9:C1:53:ARG:CG	10:C2:54:VAL:HG11	2.20	0.68
7:C3:7:CYS:SG	7:C3:139:CYS:HA	2.32	0.68
10:C7:139:THR:HG22	10:C7:171:PHE:CE2	2.28	0.68
8:CH:46:THR:CG2	9:CI:47:VAL:HG21	2.24	0.68
9:CN:50:ILE:HD12	10:CO:50:LEU:HD22	1.74	0.68
10:Cd:139:THR:HG22	10:Cd:171:PHE:CE2	2.28	0.68
8:Cl:46:THR:CG2	9:Cm:47:VAL:HG21	2.24	0.68
9:Cr:50:ILE:HD12	10:Cs:50:LEU:HD22	1.74	0.68
6:B6:102:ILE:HD11	6:B6:149:ASP:HB3	1.74	0.68
4:BK:18:ARG:HH22	4:BK:124:CYS:HB2	1.57	0.68
6:BN:89:VAL:HG13	5:CL:68:ALA:CA	2.23	0.68
4:BT:66:ASP:CG	7:CP:84:LEU:HD21	2.17	0.68
8:C5:135:ALA:CB	8:C5:147:LEU:HB3	2.23	0.68
8:CC:105:THR:HG23	8:CC:145:VAL:CG1	2.24	0.68
9:CD:31:LEU:HD12	10:CE:28:ILE:CB	2.21	0.68
9:CD:162:VAL:HG12	9:CD:163:THR:N	2.07	0.68
8:CH:67:SER:OG	8:CH:174:GLY:HA2	1.93	0.68
5:CQ:136:HIS:O	5:CQ:140:ASP:HB2	1.93	0.68
8:CW:28:LEU:HD11	10:CY:27:SER:HB2	0.69	0.68
8:Cg:105:THR:HG23	8:Cg:145:VAL:CG1	2.24	0.68
2:AD:101:HIS:CG	2:AD:146:ILE:HG22	2.29	0.68
3:AO:23:TRP:NE1	3:AO:78:LYS:HZ2	1.90	0.68
3:AZ:58:ILE:HG22	3:AZ:66:PHE:CE1	2.29	0.68
5:B0:20:GLN:HE21	5:B0:135:TRP:HE1	1.41	0.68
6:Bw:145:ARG:HA	6:Bw:148:LYS:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C0:28:LEU:HD11	10:C2:27:SER:HB2	0.69	0.68
8:C0:46:THR:CG2	9:C1:47:VAL:HG21	2.24	0.68
8:C5:14:VAL:CG1	10:C7:13:ILE:CG2	2.64	0.68
8:C5:46:THR:CG2	9:C6:47:VAL:HG21	2.24	0.68
9:C6:27:ILE:CG2	10:C7:28:ILE:CD1	2.68	0.68
10:CJ:99:THR:O	10:CJ:101:PRO:HD3	1.92	0.68
10:CT:78:SER:H	10:CT:81:PHE:HD2	1.39	0.68
10:CT:139:THR:HG22	10:CT:171:PHE:CE2	2.28	0.68
8:CW:46:THR:CG2	9:CX:47:VAL:HG21	2.24	0.68
9:CX:31:LEU:HD12	10:CY:28:ILE:HG23	0.72	0.68
8:Cb:46:THR:CG2	9:Cc:47:VAL:HG21	2.24	0.68
8:Cb:101:SER:CB	8:Cb:104:ILE:HG13	2.19	0.68
9:Ch:162:VAL:HG12	9:Ch:163:THR:N	2.07	0.68
5:Ck:136:HIS:O	5:Ck:140:ASP:HB2	1.93	0.68
10:Cn:99:THR:O	10:Cn:101:PRO:HD3	1.92	0.68
5:Cu:136:HIS:O	5:Cu:140:ASP:HB2	1.93	0.68
10:Cx:139:THR:HG22	10:Cx:171:PHE:CE2	2.28	0.68
3:A3:58:ILE:HG22	3:A3:66:PHE:CE1	2.29	0.68
2:Ah:101:HIS:CG	2:Ah:146:ILE:HG22	2.29	0.68
3:Ai:23:TRP:NE1	3:Ai:78:LYS:HZ2	1.90	0.68
6:B1:58:ILE:HG22	6:B1:66:PHE:CE1	2.29	0.68
6:B6:126:VAL:HG23	6:B6:127:LEU:HD23	1.74	0.68
4:B7:39:ALA:CB	10:C7:137:PHE:HZ	2.06	0.68
6:BN:126:VAL:HG23	6:BN:127:LEU:HD23	1.74	0.68
6:BS:102:ILE:HD11	6:BS:149:ASP:HB3	1.74	0.68
6:BS:126:VAL:HG23	6:BS:127:LEU:HD23	1.74	0.68
5:BW:136:HIS:O	5:BW:140:ASP:HB2	1.93	0.68
6:BX:58:ILE:HG22	6:BX:66:PHE:CE1	2.29	0.68
6:Bc:126:VAL:HG23	6:Bc:127:LEU:HD23	1.74	0.68
10:C2:45:ARG:NH1	10:C2:45:ARG:HB3	2.08	0.68
8:C5:23:TYR:CE2	8:CH:15:LYS:CE	2.76	0.68
8:CC:46:THR:CG2	9:CD:47:VAL:HG21	2.24	0.68
5:CG:136:HIS:O	5:CG:140:ASP:HB2	1.93	0.68
8:CM:135:ALA:CB	8:CM:147:LEU:HB3	2.23	0.68
10:CT:45:ARG:HB3	10:CT:45:ARG:NH1	2.08	0.68
9:CX:53:ARG:CG	10:CY:54:VAL:HG11	2.20	0.68
10:CY:45:ARG:HB3	10:CY:45:ARG:NH1	2.08	0.68
8:Cb:105:THR:HG23	8:Cb:145:VAL:CG1	2.24	0.68
10:Cd:99:THR:O	10:Cd:101:PRO:HD3	1.92	0.68
8:Cg:46:THR:CG2	9:Ch:47:VAL:HG21	2.24	0.68
9:Ch:31:LEU:HD12	10:Ci:28:ILE:CB	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cl:67:SER:OG	8:Cl:174:GLY:HA2	1.93	0.68
8:Cq:46:THR:CG2	9:Cr:47:VAL:HG21	2.24	0.68
10:Cx:78:SER:H	10:Cx:81:PHE:HD2	1.39	0.68
3:AA:11:ASP:CG	3:AA:137:ARG:HH21	2.01	0.68
3:Ad:23:TRP:NE1	3:Ad:78:LYS:HZ2	1.90	0.68
6:B6:89:VAL:HG13	5:C4:68:ALA:CA	2.23	0.68
4:BU:18:ARG:HH22	4:BU:124:CYS:HB2	1.57	0.68
6:Bc:102:ILE:HD11	6:Bc:149:ASP:HB3	1.74	0.68
4:Be:18:ARG:HH22	4:Be:124:CYS:HB2	1.57	0.68
8:C5:101:SER:CB	8:C5:104:ILE:HG13	2.19	0.68
8:C5:105:THR:HG23	8:C5:145:VAL:CG1	2.24	0.68
9:C6:14:LEU:HD21	10:C7:14:ILE:HG21	0.72	0.68
8:CC:183:LEU:HD12	8:CC:184:LYS:H	1.59	0.68
8:CH:198:LEU:HD13	8:CH:203:HIS:CB	2.24	0.68
8:CM:46:THR:CG2	9:CN:47:VAL:HG21	2.24	0.68
8:CR:135:ALA:CB	8:CR:147:LEU:HB3	2.23	0.68
8:Cb:14:VAL:CG1	10:Cd:13:ILE:CG2	2.64	0.68
8:Cb:23:TYR:CE2	8:Cl:15:LYS:CE	2.76	0.68
9:Cc:27:ILE:CG2	10:Cd:28:ILE:CD1	2.68	0.68
8:Cg:183:LEU:HD12	8:Cg:184:LYS:H	1.59	0.68
9:Cm:14:LEU:HD21	10:Cn:14:ILE:HG21	0.72	0.68
9:Cm:162:VAL:HG12	9:Cm:163:THR:N	2.07	0.68
10:Cx:89:CYS:CB	10:Cx:92:GLY:H	2.07	0.68
3:AJ:23:TRP:NE1	3:AJ:78:LYS:HZ2	1.90	0.68
3:AY:23:TRP:NE1	3:AY:78:LYS:HZ2	1.91	0.68
3:Ae:11:ASP:CG	3:Ae:137:ARG:HH21	2.01	0.68
3:An:23:TRP:NE1	3:An:78:LYS:HZ2	1.90	0.68
3:At:58:ILE:HG22	3:At:66:PHE:CE1	2.29	0.68
3:Ay:11:ASP:CG	3:Ay:137:ARG:HH21	2.01	0.68
5:B0:136:HIS:O	5:B0:140:ASP:HB2	1.93	0.68
4:BT:18:ARG:HH22	4:BT:124:CYS:HB2	1.59	0.68
6:Bc:89:VAL:HG13	5:Ca:68:ALA:CA	2.23	0.68
4:Bd:39:ALA:CB	10:Cd:137:PHE:HZ	2.06	0.68
6:Bm:89:VAL:HG13	5:Ck:68:ALA:CA	2.23	0.68
6:Br:126:VAL:HG23	6:Br:127:LEU:HD23	1.74	0.68
6:Bw:102:ILE:HD11	6:Bw:149:ASP:HB3	1.74	0.68
6:Bw:126:VAL:HG23	6:Bw:127:LEU:HD23	1.74	0.68
9:C1:31:LEU:HD12	10:C2:28:ILE:HG23	0.72	0.68
10:C7:99:THR:O	10:C7:101:PRO:HD3	1.92	0.68
10:CJ:139:THR:HG22	10:CJ:171:PHE:CE2	2.28	0.68
8:CM:67:SER:OG	8:CM:174:GLY:HA2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CO:89:CYS:CB	10:CO:92:GLY:H	2.07	0.68
10:CT:89:CYS:CB	10:CT:92:GLY:H	2.07	0.68
5:Cf:136:HIS:O	5:Cf:140:ASP:HB2	1.93	0.68
10:Ci:82:VAL:CG1	10:Ci:94:ASP:HB3	2.16	0.68
8:Cl:105:THR:HG23	8:Cl:145:VAL:CG1	2.24	0.68
8:Cl:198:LEU:HD13	8:Cl:203:HIS:CB	2.24	0.68
8:Cq:135:ALA:CB	8:Cq:147:LEU:HB3	2.23	0.68
10:Cs:89:CYS:CB	10:Cs:92:GLY:H	2.07	0.68
10:Cx:45:ARG:HB3	10:Cx:45:ARG:NH1	2.08	0.68
3:AP:58:ILE:HG22	3:AP:66:PHE:CE1	2.29	0.68
2:AS:101:HIS:CG	2:AS:146:ILE:HG22	2.29	0.68
3:AU:11:ASP:CG	3:AU:137:ARG:HH21	2.01	0.68
2:Aw:101:HIS:CG	2:Aw:146:ILE:HG22	2.29	0.68
4:B2:18:ARG:HH22	4:B2:124:CYS:HB2	1.59	0.68
6:BS:58:ILE:HG22	6:BS:66:PHE:CE1	2.29	0.68
6:Bw:58:ILE:HG22	6:Bw:66:PHE:CE1	2.29	0.68
4:Bx:18:ARG:HH22	4:Bx:124:CYS:HB2	1.59	0.68
5:CB:136:HIS:O	5:CB:140:ASP:HB2	1.93	0.68
8:CC:21:ILE:HD13	10:CE:20:ARG:CB	2.18	0.68
8:CH:105:THR:HG23	8:CH:145:VAL:CG1	2.24	0.68
9:CI:14:LEU:HD21	10:CJ:14:ILE:HG21	0.72	0.68
9:CI:162:VAL:HG12	9:CI:163:THR:N	2.07	0.68
8:CM:198:LEU:HD13	8:CM:203:HIS:CB	2.24	0.68
9:CN:24:LEU:HD13	10:CO:21:THR:CG2	2.20	0.68
9:Cc:14:LEU:HD21	10:Cd:14:ILE:HG21	0.72	0.68
8:Cg:21:ILE:HD13	10:CI:20:ARG:CB	2.18	0.68
9:Cm:42:ASP:HA	10:Cn:38:ARG:NE	2.06	0.68
10:Cn:139:THR:HG22	10:Cn:171:PHE:CE2	2.28	0.68
8:Cq:198:LEU:HD13	8:Cq:203:HIS:CB	2.24	0.68
9:Cr:24:LEU:HD13	10:Cs:21:THR:CG2	2.20	0.68
8:Cv:135:ALA:CB	8:Cv:147:LEU:HB3	2.23	0.68
2:A1:101:HIS:CG	2:A1:146:ILE:HG22	2.29	0.68
2:AI:143:ILE:HA	2:AI:146:ILE:HD11	1.76	0.68
2:AX:101:HIS:CG	2:AX:146:ILE:HG22	2.29	0.68
2:Ar:101:HIS:CG	2:Ar:146:ILE:HG22	2.29	0.68
6:B1:71:VAL:HB	5:Cz:83:MET:HE1	1.76	0.68
4:BA:18:ARG:HH22	4:BA:124:CYS:HB2	1.57	0.68
6:BI:89:VAL:HG13	5:CG:68:ALA:CA	2.23	0.68
6:BX:71:VAL:HB	5:CV:83:MET:HE1	1.76	0.68
6:Bh:89:VAL:HG13	5:Cf:68:ALA:CA	2.23	0.68
4:By:18:ARG:HH22	4:By:124:CYS:HB2	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C1:201:ASP:CB	9:C1:204:ARG:HE	2.07	0.68
8:CC:24:LEU:HB3	10:CE:24:ILE:CD1	2.19	0.68
8:CH:135:ALA:CB	8:CH:147:LEU:HB3	2.23	0.68
8:CH:183:LEU:HD12	8:CH:184:LYS:H	1.59	0.68
10:CO:78:SER:H	10:CO:81:PHE:HD2	1.39	0.68
8:CW:105:THR:HG23	8:CW:145:VAL:CG1	2.24	0.68
9:CX:201:ASP:CB	9:CX:204:ARG:HE	2.07	0.68
8:Cb:28:LEU:HD11	10:Cd:27:SER:HB2	0.69	0.68
8:Cl:183:LEU:HD12	8:Cl:184:LYS:H	1.59	0.68
8:Cq:67:SER:OG	8:Cq:174:GLY:HA2	1.93	0.68
9:Cr:13:ARG:CZ	10:Cs:14:ILE:CD1	2.66	0.68
3:A3:11:ASP:CG	3:A3:137:ARG:HH21	2.01	0.68
2:AD:143:ILE:HA	2:AD:146:ILE:HD11	1.76	0.68
3:AE:102:ILE:CD1	3:AE:149:ASP:HB3	2.09	0.68
2:AN:101:HIS:CG	2:AN:146:ILE:HG22	2.29	0.68
2:Am:143:ILE:HA	2:Am:146:ILE:HD11	1.76	0.68
4:BY:18:ARG:HH22	4:BY:124:CYS:HB2	1.59	0.68
6:Bc:58:ILE:HG22	6:Bc:66:PHE:CE1	2.29	0.68
6:Bh:109:LYS:CD	6:Bh:151:PRO:HG2	2.22	0.68
6:Bm:126:VAL:HG23	6:Bm:127:LEU:HD23	1.74	0.68
8:C0:105:THR:HG23	8:C0:145:VAL:CG1	2.24	0.68
8:C5:28:LEU:HD11	10:C7:27:SER:HB2	0.69	0.68
8:C5:183:LEU:HD12	8:C5:184:LYS:H	1.59	0.68
8:CH:101:SER:CB	8:CH:104:ILE:HG13	2.19	0.68
8:CR:101:SER:CB	8:CR:104:ILE:HG13	2.19	0.68
8:Cb:183:LEU:HD12	8:Cb:184:LYS:H	1.59	0.68
9:Cc:31:LEU:HD12	10:Cd:28:ILE:CB	2.21	0.68
9:Ch:13:ARG:NH1	10:Ci:14:ILE:CG1	2.37	0.68
10:Cs:78:SER:H	10:Cs:81:PHE:HD2	1.39	0.68
8:Cv:183:LEU:HD12	8:Cv:184:LYS:H	1.59	0.68
3:AU:58:ILE:HG22	3:AU:66:PHE:CE1	2.29	0.67
3:AZ:11:ASP:CG	3:AZ:137:ARG:HH21	2.01	0.67
2:Ah:143:ILE:HA	2:Ah:146:ILE:HD11	1.76	0.67
3:Ax:23:TRP:NE1	3:Ax:78:LYS:HZ2	1.91	0.67
6:B6:58:ILE:HG22	6:B6:66:PHE:CE1	2.29	0.67
6:BD:89:VAL:HG13	5:CB:68:ALA:CA	2.23	0.67
6:BI:126:VAL:HG23	6:BI:127:LEU:HD23	1.74	0.67
9:C1:14:LEU:HD21	10:C2:14:ILE:HG21	0.72	0.67
9:C1:162:VAL:HG12	9:C1:163:THR:H	1.59	0.67
5:C4:136:HIS:O	5:C4:140:ASP:HB2	1.94	0.67
10:CE:82:VAL:CG1	10:CE:94:ASP:HB3	2.16	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:42:ASP:HA	10:CJ:38:ARG:NE	2.06	0.67
8:CM:14:VAL:CB	10:CO:13:ILE:CG2	2.72	0.67
8:CR:183:LEU:HD12	8:CR:184:LYS:H	1.59	0.67
8:CW:23:TYR:CE2	8:Cq:15:LYS:CE	2.76	0.67
10:CY:139:THR:HG22	10:CY:171:PHE:CE2	2.28	0.67
8:Cb:15:LYS:CE	8:CI:23:TYR:CE2	2.76	0.67
8:CI:135:ALA:CB	8:CI:147:LEU:HB3	2.23	0.67
3:At:22:VAL:HG12	3:At:127:LEU:CD2	2.23	0.67
3:Ay:58:ILE:HG22	3:Ay:66:PHE:CE1	2.29	0.67
8:C5:15:LYS:CE	8:CH:23:TYR:CE2	2.76	0.67
9:CD:201:ASP:CB	9:CD:204:ARG:HE	2.07	0.67
8:CR:85:GLY:HA2	8:CR:140:PHE:CE2	2.30	0.67
8:CR:193:ILE:HD11	8:CR:214:LEU:HD11	1.76	0.67
10:Cd:57:LEU:C	10:Cd:58:GLU:CG	2.40	0.67
8:Cg:24:LEU:HB3	10:CI:24:ILE:CD1	2.19	0.67
9:Ch:201:ASP:CB	9:Ch:204:ARG:HE	2.07	0.67
8:Cv:85:GLY:HA2	8:Cv:140:PHE:CE2	2.30	0.67
8:Cv:193:ILE:HD11	8:Cv:214:LEU:HD11	1.76	0.67
9:Cw:13:ARG:CZ	10:Cx:14:ILE:HD12	2.19	0.67
3:AF:58:ILE:HG22	3:AF:66:PHE:CE1	2.29	0.67
3:AP:22:VAL:HG12	3:AP:127:LEU:CD2	2.23	0.67
5:BR:136:HIS:O	5:BR:140:ASP:HB2	1.93	0.67
6:Bm:71:VAL:HB	5:Ck:83:MET:HE1	1.76	0.67
8:C0:183:LEU:HD12	8:C0:184:LYS:H	1.59	0.67
9:C1:50:ILE:HD12	10:C2:50:LEU:HD22	1.74	0.67
10:C2:139:THR:HG22	10:C2:171:PHE:CE2	2.28	0.67
9:C6:31:LEU:HD12	10:C7:28:ILE:CB	2.21	0.67
8:CC:28:LEU:HD11	10:CE:27:SER:HB2	0.69	0.67
8:CH:14:VAL:CB	10:CJ:13:ILE:CG2	2.72	0.67
9:CN:13:ARG:CZ	10:CO:14:ILE:CD1	2.66	0.67
9:CS:13:ARG:CZ	10:CT:14:ILE:HD12	2.19	0.67
9:CS:201:ASP:CB	9:CS:204:ARG:HE	2.07	0.67
8:CW:183:LEU:HD12	8:CW:184:LYS:H	1.59	0.67
9:CX:50:ILE:HD12	10:CY:50:LEU:HD22	1.74	0.67
9:CX:162:VAL:HG12	9:CX:163:THR:H	1.59	0.67
5:Ca:136:HIS:O	5:Ca:140:ASP:HB2	1.94	0.67
10:CI:89:CYS:CB	10:CI:92:GLY:H	2.07	0.67
8:CI:101:SER:CB	8:CI:104:ILE:HG13	2.19	0.67
8:Cv:101:SER:CB	8:Cv:104:ILE:HG13	2.19	0.67
3:A2:23:TRP:NE1	3:A2:78:LYS:HZ2	1.92	0.67
3:AT:23:TRP:NE1	3:AT:78:LYS:HZ2	1.91	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ac:20:GLN:HE21	2:Ac:135:TRP:HE1	1.43	0.67
3:Ai:102:ILE:CD1	3:Ai:149:ASP:HB3	2.09	0.67
3:Aj:58:ILE:HG22	3:Aj:66:PHE:CE1	2.29	0.67
2:Ar:18:LYS:HZ2	2:Ar:82:SER:HA	1.57	0.67
6:BI:71:VAL:HB	5:CG:83:MET:HE1	1.76	0.67
4:Bx:39:ALA:CB	10:Cx:137:PHE:HZ	2.06	0.67
8:C0:23:TYR:CE2	8:CM:15:LYS:CE	2.76	0.67
8:C0:85:GLY:HA2	8:C0:140:PHE:CE2	2.30	0.67
9:C6:201:ASP:CB	9:C6:204:ARG:HE	2.07	0.67
10:CE:89:CYS:CB	10:CE:92:GLY:H	2.07	0.67
9:CN:214:THR:HG22	9:CN:216:HIS:HB2	1.76	0.67
5:CV:136:HIS:O	5:CV:140:ASP:HB2	1.93	0.67
9:CX:14:LEU:HD21	10:CY:14:ILE:HG21	0.72	0.67
8:Cg:28:LEU:HD11	10:Ci:27:SER:HB2	0.69	0.67
8:Cl:14:VAL:CB	10:Cn:13:ILE:CG2	2.72	0.67
10:Cn:89:CYS:CB	10:Cn:92:GLY:H	2.07	0.67
9:Cr:214:THR:HG22	9:Cr:216:HIS:HB2	1.76	0.67
9:Cw:38:ALA:HB3	10:Cx:35:LEU:CD1	2.15	0.67
2:A6:20:GLN:HE21	2:A6:135:TRP:HE1	1.43	0.67
4:B3:92:LEU:HD13	4:B3:141:ILE:HD11	1.77	0.67
6:B6:71:VAL:HB	5:C4:83:MET:HE1	1.76	0.67
4:BT:39:ALA:CB	10:CT:137:PHE:HZ	2.06	0.67
4:BZ:92:LEU:HD13	4:BZ:141:ILE:HD11	1.77	0.67
6:Bc:71:VAL:HB	5:Ca:83:MET:HE1	1.76	0.67
6:Br:71:VAL:HB	5:Cp:83:MET:HE1	1.76	0.67
5:Bv:136:HIS:O	5:Bv:140:ASP:HB2	1.93	0.67
9:C1:31:LEU:HD12	10:C2:28:ILE:CB	2.21	0.67
8:C5:198:LEU:HD13	8:C5:203:HIS:CB	2.24	0.67
9:C6:17:ASN:OD1	10:C7:17:LEU:CD1	2.30	0.67
8:CC:23:TYR:HE2	8:Cg:15:LYS:HZ1	1.42	0.67
8:CC:172:ASN:HD22	8:CC:173:PHE:N	1.93	0.67
10:CJ:89:CYS:CB	10:CJ:92:GLY:H	2.07	0.67
8:CM:172:ASN:HD22	8:CM:173:PHE:N	1.93	0.67
8:CW:85:GLY:HA2	8:CW:140:PHE:CE2	2.30	0.67
8:CW:101:SER:CB	8:CW:104:ILE:HG13	2.19	0.67
9:CX:31:LEU:HD12	10:CY:28:ILE:CB	2.21	0.67
9:Cc:160:GLU:HG2	9:Cc:161:ASN:H	1.60	0.67
9:Cc:201:ASP:CB	9:Cc:204:ARG:HE	2.07	0.67
8:Cg:172:ASN:HD22	8:Cg:173:PHE:N	1.93	0.67
8:Cg:198:LEU:HD13	8:Cg:203:HIS:CB	2.24	0.67
8:Cq:172:ASN:HD22	8:Cq:173:PHE:N	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:57:ILE:CG2	10:Cs:57:LEU:HD12	2.09	0.67
9:Cr:201:ASP:CB	9:Cr:204:ARG:HE	2.07	0.67
3:Aj:102:ILE:HA	3:Aj:150:LEU:CG	2.25	0.67
4:Aa:79:LEU:HD12	4:Aa:85:LEU:HD22	1.77	0.67
4:Ak:6:VAL:O	4:Ak:10:LEU:HD13	1.95	0.67
3:An:102:ILE:HA	3:An:150:LEU:CG	2.25	0.67
3:As:102:ILE:HA	3:As:150:LEU:CG	2.25	0.67
6:B1:126:VAL:HG23	6:B1:127:LEU:HD23	1.74	0.67
4:B2:39:ALA:CB	10:C2:137:PHE:HZ	2.06	0.67
6:BN:71:VAL:HB	5:CL:83:MET:HE1	1.76	0.67
6:BS:109:LYS:CD	6:BS:151:PRO:HG2	2.22	0.67
9:C6:160:GLU:HG2	9:C6:161:ASN:H	1.60	0.67
10:C7:89:CYS:CB	10:C7:92:GLY:H	2.07	0.67
8:CC:15:LYS:HZ1	8:Cg:23:TYR:HE2	1.43	0.67
8:CC:198:LEU:HD13	8:CC:203:HIS:CB	2.24	0.67
9:CD:13:ARG:NH1	10:CE:14:ILE:CG1	2.37	0.67
9:CN:201:ASP:CB	9:CN:204:ARG:HE	2.07	0.67
8:Cb:198:LEU:HD13	8:Cb:203:HIS:CB	2.24	0.67
10:Cd:89:CYS:CB	10:Cd:92:GLY:H	2.07	0.67
8:Cg:74:PRO:HD3	10:Ci:217:ILE:HG13	1.77	0.67
8:Cl:85:GLY:HA2	8:Cl:140:PHE:CE2	2.30	0.67
2:A1:20:GLN:HE21	2:A1:135:TRP:HE1	1.43	0.67
4:A4:79:LEU:HD12	4:A4:85:LEU:HD22	1.77	0.67
2:A6:101:HIS:CG	2:A6:146:ILE:HG22	2.29	0.67
4:AG:6:VAL:O	4:AG:10:LEU:HD13	1.95	0.67
3:AO:102:ILE:HA	3:AO:150:LEU:CG	2.25	0.67
3:AY:102:ILE:HA	3:AY:150:LEU:CG	2.25	0.67
6:BD:58:ILE:HG22	6:BD:66:PHE:CE1	2.29	0.67
4:BY:39:ALA:CB	10:CY:137:PHE:HZ	2.06	0.67
6:Bh:58:ILE:HG22	6:Bh:66:PHE:CE1	2.29	0.67
4:Bs:18:ARG:HH22	4:Bs:124:CYS:HB2	1.59	0.67
8:CC:42:VAL:HG23	8:CC:46:THR:HG1	1.60	0.67
8:CC:74:PRO:HD3	10:CE:217:ILE:HG13	1.77	0.67
8:CH:85:GLY:HA2	8:CH:140:PHE:CE2	2.30	0.67
8:CR:46:THR:CG2	9:CS:47:VAL:HG21	2.24	0.67
8:CW:172:ASN:HD22	8:CW:173:PHE:N	1.93	0.67
9:Cc:17:ASN:OD1	10:Cd:17:LEU:CD1	2.30	0.67
8:Cl:172:ASN:HD22	8:Cl:173:PHE:N	1.93	0.67
8:Cq:105:THR:HG23	8:Cq:145:VAL:CG1	2.24	0.67
5:Cz:136:HIS:O	5:Cz:140:ASP:HB2	1.93	0.67
3:A2:102:ILE:HA	3:A2:150:LEU:CG	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AD:20:GLN:HE21	2:AD:135:TRP:HE1	1.43	0.67
2:AI:115:LEU:HB2	2:AI:143:ILE:CD1	2.25	0.67
2:AN:115:LEU:HB2	2:AN:143:ILE:CD1	2.25	0.67
2:AN:143:ILE:HA	2:AN:146:ILE:HD11	1.76	0.67
2:AS:115:LEU:HB2	2:AS:143:ILE:CD1	2.25	0.67
2:AX:20:GLN:HE21	2:AX:135:TRP:HE1	1.43	0.67
2:Am:115:LEU:HB2	2:Am:143:ILE:CD1	2.25	0.67
4:Ap:6:VAL:O	4:Ap:10:LEU:HD13	1.95	0.67
2:Ar:115:LEU:HB2	2:Ar:143:ILE:CD1	2.25	0.67
2:Aw:115:LEU:HB2	2:Aw:143:ILE:CD1	2.25	0.67
4:BU:92:LEU:HD13	4:BU:141:ILE:HD11	1.77	0.67
8:C0:74:PRO:HD3	10:C2:217:ILE:HG13	1.77	0.67
8:C0:101:SER:CB	8:C0:104:ILE:HG13	2.19	0.67
8:C0:172:ASN:HD22	8:C0:173:PHE:N	1.93	0.67
8:C5:14:VAL:CB	10:C7:13:ILE:CG2	2.72	0.67
8:C5:34:GLU:HA	8:C5:37:LYS:HE2	1.77	0.67
8:C5:172:ASN:HD22	8:C5:173:PHE:N	1.93	0.67
10:C7:57:LEU:C	10:C7:58:GLU:CG	2.40	0.67
8:CC:14:VAL:CB	10:CE:13:ILE:CG2	2.72	0.67
9:CD:14:LEU:HD21	10:CE:14:ILE:HG21	0.72	0.67
9:CD:38:ALA:CB	10:CE:35:LEU:HD11	2.16	0.67
9:CD:160:GLU:HG2	9:CD:161:ASN:H	1.60	0.67
8:CH:172:ASN:HD22	8:CH:173:PHE:N	1.93	0.67
8:CM:105:THR:HG23	8:CM:145:VAL:CG1	2.24	0.67
8:Cb:34:GLU:HA	8:Cb:37:LYS:HE2	1.77	0.67
9:Ch:14:LEU:HD21	10:Ci:14:ILE:HG21	0.72	0.67
9:Ch:160:GLU:HG2	9:Ch:161:ASN:H	1.60	0.67
9:Cw:13:ARG:NH1	10:Cx:14:ILE:CG1	2.37	0.67
4:AL:6:VAL:O	4:AL:10:LEU:HD13	1.95	0.67
2:Ac:101:HIS:CG	2:Ac:146:ILE:HG22	2.29	0.67
2:Ah:20:GLN:HE21	2:Ah:135:TRP:HE1	1.43	0.67
4:BE:18:ARG:HH22	4:BE:124:CYS:HB2	1.59	0.67
4:BO:18:ARG:HH22	4:BO:124:CYS:HB2	1.59	0.67
6:BX:126:VAL:HG23	6:BX:127:LEU:HD23	1.74	0.67
6:Bw:71:VAL:HB	5:Cu:83:MET:HE1	1.76	0.67
6:Bw:109:LYS:CD	6:Bw:151:PRO:HG2	2.22	0.67
4:By:92:LEU:HD13	4:By:141:ILE:HD11	1.77	0.67
9:C1:13:ARG:CZ	10:C2:14:ILE:HD12	2.19	0.67
8:C5:85:GLY:HA2	8:C5:140:PHE:CE2	2.30	0.67
9:C6:13:ARG:CZ	10:C7:14:ILE:HG13	2.25	0.67
9:C6:162:VAL:HG12	9:C6:163:THR:H	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:85:GLY:HA2	8:CC:140:PHE:CE2	2.30	0.67
9:CI:160:GLU:HG2	9:CI:161:ASN:H	1.60	0.67
8:CM:34:GLU:HA	8:CM:37:LYS:HE2	1.77	0.67
8:CR:105:THR:HG23	8:CR:145:VAL:CG1	2.24	0.67
8:CW:74:PRO:HD3	10:CY:217:ILE:HG13	1.77	0.67
8:Cb:14:VAL:CB	10:Cd:13:ILE:CG2	2.72	0.67
8:Cb:172:ASN:HD22	8:Cb:173:PHE:N	1.93	0.67
9:Cc:13:ARG:CZ	10:Cd:14:ILE:HG13	2.25	0.67
8:Cg:14:VAL:CB	10:CI:13:ILE:CG2	2.72	0.67
8:Cq:34:GLU:HA	8:Cq:37:LYS:HE2	1.77	0.67
8:Cv:46:THR:CG2	9:Cw:47:VAL:HG21	2.24	0.67
8:Cv:172:ASN:HD22	8:Cv:173:PHE:N	1.93	0.67
8:Cv:198:LEU:HD13	8:Cv:203:HIS:CB	2.24	0.67
2:AX:115:LEU:HB2	2:AX:143:ILE:CD1	2.25	0.67
4:Ak:18:ARG:HH22	4:Ak:124:CYS:HB2	1.60	0.67
2:Ar:143:ILE:HA	2:Ar:146:ILE:HD11	1.76	0.67
6:BS:71:VAL:HB	5:CQ:83:MET:HE1	1.76	0.67
4:Be:92:LEU:HD13	4:Be:141:ILE:HD11	1.77	0.67
4:Bi:18:ARG:HH22	4:Bi:124:CYS:HB2	1.59	0.67
4:Bn:18:ARG:HH22	4:Bn:124:CYS:HB2	1.59	0.67
8:C0:14:VAL:CG1	10:C2:13:ILE:CG2	2.64	0.67
8:C5:193:ILE:HD11	8:C5:214:LEU:HD11	1.76	0.67
9:C6:57:ILE:CG2	10:C7:57:LEU:HD12	2.09	0.67
8:CM:183:LEU:HD12	8:CM:184:LYS:H	1.59	0.67
8:CM:193:ILE:HD11	8:CM:214:LEU:HD11	1.76	0.67
9:CN:27:ILE:CG2	10:CO:28:ILE:CD1	2.68	0.67
8:CR:172:ASN:HD22	8:CR:173:PHE:N	1.93	0.67
8:CR:198:LEU:HD13	8:CR:203:HIS:CB	2.24	0.67
9:CX:13:ARG:CZ	10:CY:14:ILE:HD12	2.19	0.67
9:CX:82:VAL:HG23	9:CX:88:ASP:CB	2.26	0.67
10:CY:89:CYS:CB	10:CY:92:GLY:H	2.07	0.67
8:Cb:74:PRO:HD3	10:Cd:217:ILE:HG13	1.77	0.67
8:Cb:85:GLY:HA2	8:Cb:140:PHE:CE2	2.30	0.67
8:Cb:193:ILE:HD11	8:Cb:214:LEU:HD11	1.76	0.67
8:Cg:85:GLY:HA2	8:Cg:140:PHE:CE2	2.30	0.67
9:Cm:160:GLU:HG2	9:Cm:161:ASN:H	1.60	0.67
8:Cq:14:VAL:CB	10:Cs:13:ILE:CG2	2.72	0.67
8:Cq:183:LEU:HD12	8:Cq:184:LYS:H	1.59	0.67
9:Cr:14:LEU:HD21	10:Cs:14:ILE:HG21	0.72	0.67
8:Cv:105:THR:HG23	8:Cv:145:VAL:CG1	2.24	0.67
9:Cw:162:VAL:HG12	9:Cw:163:THR:H	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:115:LEU:HB2	2:A1:143:ILE:CD1	2.25	0.66
4:AG:18:ARG:HH22	4:AG:124:CYS:HB2	1.60	0.66
4:AV:6:VAL:O	4:AV:10:LEU:HD13	1.95	0.66
4:Aa:6:VAL:O	4:Aa:10:LEU:HD13	1.95	0.66
4:BA:92:LEU:HD13	4:BA:141:ILE:HD11	1.77	0.66
6:Bm:58:ILE:HG22	6:Bm:66:PHE:CE1	2.29	0.66
9:C1:82:VAL:HG23	9:C1:88:ASP:CB	2.26	0.66
10:C2:89:CYS:CB	10:C2:92:GLY:H	2.07	0.66
8:C5:21:ILE:HD13	10:C7:20:ARG:CB	2.18	0.66
8:C5:74:PRO:HD3	10:C7:217:ILE:HG13	1.77	0.66
8:CH:34:GLU:HA	8:CH:37:LYS:HE2	1.77	0.66
9:CI:214:THR:HG22	9:CI:216:HIS:HB2	1.76	0.66
8:CM:24:LEU:HB3	10:CO:24:ILE:CD1	2.19	0.66
9:CN:57:ILE:CG2	10:CO:57:LEU:HD12	2.09	0.66
9:CS:162:VAL:HG12	9:CS:163:THR:H	1.59	0.66
8:Cb:21:ILE:HD13	10:Cd:20:ARG:CB	2.18	0.66
9:Cc:162:VAL:HG12	9:Cc:163:THR:H	1.59	0.66
8:Cg:193:ILE:HD11	8:Cg:214:LEU:HD11	1.76	0.66
9:Cr:27:ILE:CG2	10:Cs:28:ILE:CD1	2.68	0.66
4:A4:6:VAL:O	4:A4:10:LEU:HD13	1.95	0.66
4:AL:18:ARG:HH22	4:AL:124:CYS:HB2	1.60	0.66
2:Am:20:GLN:HE21	2:Am:135:TRP:HE1	1.43	0.66
4:Az:6:VAL:O	4:Az:10:LEU:HD13	1.95	0.66
4:BA:94:VAL:HA	4:BA:97:GLU:HG2	1.78	0.66
6:BI:58:ILE:HG22	6:BI:66:PHE:CE1	2.29	0.66
4:Be:94:VAL:HA	4:Be:97:GLU:HG2	1.78	0.66
7:Bp:58:ASP:OD2	7:Bp:61:HIS:HB2	1.96	0.66
9:C1:132:ILE:HD12	9:C1:147:LEU:HD12	1.77	0.66
7:CA:58:ASP:OD2	7:CA:61:HIS:HB2	1.96	0.66
9:CX:132:ILE:HD12	9:CX:147:LEU:HD12	1.77	0.66
10:Cd:82:VAL:CG1	10:Cd:94:ASP:HB3	2.16	0.66
7:Ce:58:ASP:OD2	7:Ce:61:HIS:HB2	1.96	0.66
8:Cl:34:GLU:HA	8:Cl:37:LYS:HE2	1.77	0.66
8:Cq:193:ILE:HD11	8:Cq:214:LEU:HD11	1.76	0.66
9:Cw:201:ASP:CB	9:Cw:204:ARG:HE	2.07	0.66
4:A4:18:ARG:HH22	4:A4:124:CYS:HB2	1.60	0.66
2:A6:143:ILE:HA	2:A6:146:ILE:HD11	1.76	0.66
3:A7:150:LEU:HB3	3:A7:151:PRO:HD3	1.77	0.66
2:AI:18:LYS:HZ2	2:AI:82:SER:HA	1.59	0.66
2:AI:20:GLN:HE21	2:AI:135:TRP:HE1	1.43	0.66
4:Aa:101:ILE:HB	4:Aa:106:PHE:HE1	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ac:143:ILE:HA	2:Ac:146:ILE:HD11	1.76	0.66
3:Ad:150:LEU:HB3	3:Ad:151:PRO:HD3	1.77	0.66
2:Am:18:LYS:HZ2	2:Am:82:SER:HA	1.59	0.66
4:BJ:18:ARG:HH22	4:BJ:124:CYS:HB2	1.59	0.66
7:BL:58:ASP:OD2	7:BL:61:HIS:HB2	1.96	0.66
4:Bd:18:ARG:HH22	4:Bd:124:CYS:HB2	1.59	0.66
6:Br:58:ILE:HG22	6:Br:66:PHE:CE1	2.29	0.66
7:Bz:58:ASP:OD2	7:Bz:61:HIS:HB2	1.96	0.66
8:C0:198:LEU:HD13	8:C0:203:HIS:CB	2.24	0.66
8:CC:193:ILE:HD11	8:CC:214:LEU:HD11	1.76	0.66
5:CL:70:SER:O	5:CL:74:LEU:HD23	1.96	0.66
9:CN:14:LEU:HD21	10:CO:14:ILE:HG21	0.72	0.66
5:CQ:70:SER:O	5:CQ:74:LEU:HD23	1.96	0.66
8:CR:22:ASP:C	10:CT:20:ARG:NH2	2.15	0.66
8:CW:14:VAL:CG1	10:CY:13:ILE:CG2	2.64	0.66
8:CW:15:LYS:HZ1	8:Cq:23:TYR:HE2	1.42	0.66
8:CW:198:LEU:HD13	8:CW:203:HIS:CB	2.24	0.66
9:Ch:38:ALA:CB	10:Ci:35:LEU:HD11	2.16	0.66
9:Cm:214:THR:HG22	9:Cm:216:HIS:HB2	1.76	0.66
5:Cp:70:SER:O	5:Cp:74:LEU:HD23	1.96	0.66
8:Cv:22:ASP:C	10:Cx:20:ARG:NH2	2.15	0.66
5:Cz:70:SER:O	5:Cz:74:LEU:HD23	1.96	0.66
2:A1:143:ILE:HA	2:A1:146:ILE:HD11	1.76	0.66
4:A4:101:ILE:HB	4:A4:106:PHE:HE1	1.61	0.66
2:AN:18:LYS:HZ2	2:AN:82:SER:HA	1.58	0.66
2:AX:143:ILE:HA	2:AX:146:ILE:HD11	1.76	0.66
4:Aa:18:ARG:HH22	4:Aa:124:CYS:HB2	1.60	0.66
4:Ap:18:ARG:HH22	4:Ap:124:CYS:HB2	1.60	0.66
4:B3:94:VAL:HA	4:B3:97:GLU:HG2	1.78	0.66
7:BB:58:ASP:OD2	7:BB:61:HIS:HB2	1.96	0.66
4:BF:94:VAL:HA	4:BF:97:GLU:HG2	1.78	0.66
6:BN:58:ILE:HG22	6:BN:66:PHE:CE1	2.29	0.66
6:BN:102:ILE:HD11	6:BN:149:ASP:HB2	1.78	0.66
6:BS:102:ILE:HD11	6:BS:149:ASP:HB2	1.78	0.66
7:BV:58:ASP:OD2	7:BV:61:HIS:HB2	1.96	0.66
4:Bj:94:VAL:HA	4:Bj:97:GLU:HG2	1.78	0.66
6:Br:102:ILE:HD11	6:Br:149:ASP:HB2	1.78	0.66
7:Bu:58:ASP:OD2	7:Bu:61:HIS:HB2	1.96	0.66
6:Bw:102:ILE:HD11	6:Bw:149:ASP:HB2	1.78	0.66
8:C0:21:ILE:N	10:C2:20:ARG:NH1	2.39	0.66
9:C1:160:GLU:HG2	9:C1:161:ASN:H	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C3:58:ASP:OD2	7:C3:61:HIS:HB2	1.96	0.66
10:C7:82:VAL:CG1	10:C7:94:ASP:HB3	2.16	0.66
8:CM:85:GLY:HA2	8:CM:140:PHE:CE2	2.30	0.66
10:CO:192:PHE:HB3	10:CO:194:GLY:N	2.11	0.66
5:CV:70:SER:O	5:CV:74:LEU:HD23	1.96	0.66
8:Cg:34:GLU:HA	8:Cg:37:LYS:HE2	1.77	0.66
8:Cq:24:LEU:HB3	10:Cs:24:ILE:CD1	2.19	0.66
5:Cu:70:SER:O	5:Cu:74:LEU:HD23	1.96	0.66
3:AT:102:ILE:HA	3:AT:150:LEU:CG	2.25	0.66
2:Ac:18:LYS:HZ2	2:Ac:82:SER:HA	1.60	0.66
4:Au:18:ARG:HH22	4:Au:124:CYS:HB2	1.60	0.66
7:BG:58:ASP:OD2	7:BG:61:HIS:HB2	1.96	0.66
4:BP:74:ILE:O	4:BP:78:THR:HG23	1.96	0.66
7:BQ:58:ASP:OD2	7:BQ:61:HIS:HB2	1.96	0.66
4:BZ:94:VAL:HA	4:BZ:97:GLU:HG2	1.78	0.66
7:Bf:58:ASP:OD2	7:Bf:61:HIS:HB2	1.96	0.66
7:Bk:58:ASP:OD2	7:Bk:61:HIS:HB2	1.96	0.66
4:Bt:74:ILE:O	4:Bt:78:THR:HG23	1.96	0.66
8:C0:15:LYS:HZ1	8:CM:23:TYR:HE2	1.42	0.66
8:CH:74:PRO:HD3	10:CJ:217:ILE:HG13	1.77	0.66
8:CM:161:THR:HG22	8:CM:162:VAL:N	2.10	0.66
8:CR:15:LYS:CE	8:Cv:23:TYR:CE2	2.76	0.66
9:CS:28:ILE:HD13	10:CT:24:ILE:HD11	1.78	0.66
9:CX:13:ARG:CZ	10:CY:14:ILE:HG13	2.25	0.66
9:CX:160:GLU:HG2	9:CX:161:ASN:H	1.60	0.66
7:CZ:58:ASP:OD2	7:CZ:61:HIS:HB2	1.96	0.66
7:Cj:58:ASP:OD2	7:Cj:61:HIS:HB2	1.96	0.66
8:Cq:74:PRO:HG2	10:Cs:113:CYS:SG	2.36	0.66
8:Cq:161:THR:HG22	8:Cq:162:VAL:N	2.10	0.66
10:Cs:192:PHE:HB3	10:Cs:194:GLY:N	2.11	0.66
9:Cw:28:ILE:HD13	10:Cx:24:ILE:HD11	1.78	0.66
3:AO:150:LEU:HB3	3:AO:151:PRO:HD3	1.77	0.66
4:Af:79:LEU:HD12	4:Af:85:LEU:HD22	1.77	0.66
3:As:150:LEU:HB3	3:As:151:PRO:HD3	1.77	0.66
4:B7:18:ARG:HH22	4:B7:124:CYS:HB2	1.59	0.66
4:Bj:92:LEU:HD13	4:Bj:141:ILE:HD11	1.77	0.66
5:Bv:142:ILE:O	5:Bv:146:ILE:HG13	1.96	0.66
9:C1:13:ARG:CZ	10:C2:14:ILE:HG13	2.25	0.66
9:C6:132:ILE:HD12	9:C6:147:LEU:HD12	1.78	0.66
8:CC:34:GLU:HA	8:CC:37:LYS:HE2	1.77	0.66
7:CF:58:ASP:OD2	7:CF:61:HIS:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:161:THR:HG22	8:CH:162:VAL:N	2.10	0.66
8:CM:74:PRO:HG2	10:CO:113:CYS:SG	2.36	0.66
8:CR:23:TYR:CE2	8:Cv:15:LYS:CE	2.76	0.66
8:CR:24:LEU:HB3	10:CT:24:ILE:CD1	2.19	0.66
7:CU:58:ASP:OD2	7:CU:61:HIS:HB2	1.96	0.66
8:CW:21:ILE:N	10:CY:20:ARG:NH1	2.39	0.66
9:CX:46:PHE:HZ	10:CY:47:ALA:CA	2.08	0.66
9:Cc:57:ILE:CG2	10:Cd:57:LEU:HD12	2.09	0.66
9:Cc:214:THR:HG22	9:Cc:216:HIS:HB2	1.76	0.66
9:Ch:46:PHE:HZ	10:Ci:47:ALA:CA	2.08	0.66
8:Cl:74:PRO:HD3	10:Cn:217:ILE:HG13	1.77	0.66
8:Cl:161:THR:HG22	8:Cl:162:VAL:N	2.10	0.66
9:Cm:27:ILE:CG2	10:Cn:28:ILE:CD1	2.68	0.66
8:Cq:85:GLY:HA2	8:Cq:140:PHE:CE2	2.30	0.66
3:A7:102:ILE:HA	3:A7:150:LEU:CG	2.25	0.66
4:AB:79:LEU:HD12	4:AB:85:LEU:HD22	1.77	0.66
4:AL:79:LEU:HD12	4:AL:85:LEU:HD22	1.77	0.66
4:AQ:18:ARG:HH22	4:AQ:124:CYS:HB2	1.60	0.66
4:Af:101:ILE:HB	4:Af:106:PHE:HE1	1.61	0.66
3:Ax:102:ILE:HA	3:Ax:150:LEU:CG	2.25	0.66
5:B0:142:ILE:O	5:B0:146:ILE:HG13	1.96	0.66
5:B5:142:ILE:O	5:B5:146:ILE:HG13	1.96	0.66
4:BA:74:ILE:O	4:BA:78:THR:HG23	1.96	0.66
5:BR:142:ILE:O	5:BR:146:ILE:HG13	1.96	0.66
4:BU:74:ILE:O	4:BU:78:THR:HG23	1.96	0.66
5:Bb:142:ILE:O	5:Bb:146:ILE:HG13	1.96	0.66
4:Be:74:ILE:O	4:Be:78:THR:HG23	1.96	0.66
9:C1:46:PHE:HZ	10:C2:47:ALA:CA	2.08	0.66
8:CC:161:THR:HG22	8:CC:162:VAL:N	2.10	0.66
9:CD:27:ILE:CG2	10:CE:28:ILE:CD1	2.68	0.66
9:CD:46:PHE:HZ	10:CE:47:ALA:CA	2.08	0.66
9:CS:46:PHE:HZ	10:CT:47:ALA:CA	2.08	0.66
8:CW:74:PRO:HG2	10:CY:113:CYS:SG	2.36	0.66
9:Cc:132:ILE:HD12	9:Cc:147:LEU:HD12	1.78	0.66
7:Cy:58:ASP:OD2	7:Cy:61:HIS:HB2	1.96	0.66
1:A0:58:ASP:OD2	1:A0:61:HIS:HB2	1.96	0.66
3:AT:58:ILE:HG22	3:AT:66:PHE:CE1	2.31	0.66
4:AV:79:LEU:HD12	4:AV:85:LEU:HD22	1.77	0.66
3:Ad:102:ILE:HA	3:Ad:150:LEU:CG	2.25	0.66
4:Af:6:VAL:O	4:Af:10:LEU:HD13	1.95	0.66
3:Ax:58:ILE:HG22	3:Ax:66:PHE:CE1	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BW:142:ILE:O	5:BW:146:ILE:HG13	1.96	0.66
4:By:74:ILE:O	4:By:78:THR:HG23	1.96	0.66
8:C0:23:TYR:HE2	8:CM:15:LYS:NZ	1.94	0.66
8:C0:74:PRO:HG2	10:C2:113:CYS:SG	2.36	0.66
8:C5:74:PRO:HG2	10:C7:113:CYS:SG	2.36	0.66
9:C6:214:THR:HG22	9:C6:216:HIS:HB2	1.76	0.66
10:CJ:192:PHE:HB3	10:CJ:194:GLY:N	2.11	0.66
9:CN:28:ILE:HD13	10:CO:24:ILE:HD11	1.78	0.66
8:Cb:161:THR:HG22	8:Cb:162:VAL:N	2.10	0.66
8:Cg:161:THR:HG22	8:Cg:162:VAL:N	2.10	0.66
9:Ch:27:ILE:CG2	10:Ci:28:ILE:CD1	2.68	0.66
9:Cm:53:ARG:CG	10:Cn:54:VAL:HG11	2.20	0.66
8:Cv:42:VAL:HG23	8:Cv:46:THR:HG1	1.61	0.66
8:Cv:74:PRO:HD3	10:Cx:217:ILE:HG13	1.77	0.66
4:AB:101:ILE:HB	4:AB:106:PHE:HE1	1.61	0.66
1:AW:58:ASP:OD2	1:AW:61:HIS:HB2	1.96	0.66
3:AY:150:LEU:HB3	3:AY:151:PRO:HD3	1.77	0.66
4:Ap:79:LEU:HD12	4:Ap:85:LEU:HD22	1.77	0.66
4:Az:79:LEU:HD12	4:Az:85:LEU:HD22	1.77	0.66
6:Bh:71:VAL:HB	5:Cf:83:MET:HE1	1.76	0.66
8:C0:193:ILE:HD11	8:C0:214:LEU:HD11	1.76	0.66
8:C5:161:THR:HG22	8:C5:162:VAL:N	2.10	0.66
8:CR:74:PRO:HD3	10:CT:217:ILE:HG13	1.77	0.66
8:CW:23:TYR:HE2	8:Cq:15:LYS:HZ1	1.42	0.66
8:CW:23:TYR:HE2	8:Cq:15:LYS:NZ	1.94	0.66
8:Cb:74:PRO:HG2	10:Cd:113:CYS:SG	2.36	0.66
10:Cn:192:PHE:HB3	10:Cn:194:GLY:N	2.11	0.66
9:Cr:28:ILE:HD13	10:Cs:24:ILE:HD11	1.78	0.66
8:Cv:24:LEU:HB3	10:Cx:24:ILE:CD1	2.19	0.66
9:Cw:46:PHE:HZ	10:Cx:47:ALA:CA	2.08	0.66
9:Cw:53:ARG:CG	10:Cx:54:VAL:HG11	2.20	0.66
3:A2:150:LEU:HB3	3:A2:151:PRO:HD3	1.77	0.66
2:A6:70:SER:O	2:A6:74:LEU:HD23	1.96	0.66
4:AB:6:VAL:O	4:AB:10:LEU:HD13	1.95	0.66
4:AQ:79:LEU:HD12	4:AQ:85:LEU:HD22	1.77	0.66
4:AV:18:ARG:HH22	4:AV:124:CYS:HB2	1.60	0.66
2:Ac:70:SER:O	2:Ac:74:LEU:HD23	1.96	0.66
2:Ah:115:LEU:HB2	2:Ah:143:ILE:CD1	2.25	0.66
3:Ai:150:LEU:HB3	3:Ai:151:PRO:HD3	1.77	0.66
4:Au:6:VAL:O	4:Au:10:LEU:HD13	1.95	0.66
4:Au:79:LEU:HD12	4:Au:85:LEU:HD22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BK:74:ILE:O	4:BK:78:THR:HG23	1.96	0.66
5:BM:142:ILE:O	5:BM:146:ILE:HG13	1.96	0.66
9:CI:27:ILE:CG2	10:CJ:28:ILE:CD1	2.68	0.66
9:CI:53:ARG:CG	10:CJ:54:VAL:HG11	2.20	0.66
9:CN:160:GLU:HG2	9:CN:161:ASN:H	1.60	0.66
10:CT:192:PHE:HB3	10:CT:194:GLY:N	2.11	0.66
8:Cb:23:TYR:HE2	8:Cl:15:LYS:HZ1	1.44	0.66
8:Cb:24:LEU:HB3	10:Cd:24:ILE:CD1	2.19	0.66
4:AB:18:ARG:HH22	4:AB:124:CYS:HB2	1.60	0.65
2:AD:115:LEU:HB2	2:AD:143:ILE:CD1	2.25	0.65
3:AE:150:LEU:HB3	3:AE:151:PRO:HD3	1.77	0.65
2:Aw:143:ILE:HA	2:Aw:146:ILE:HD11	1.76	0.65
4:Az:18:ARG:HH22	4:Az:124:CYS:HB2	1.60	0.65
6:BD:71:VAL:HB	5:CB:83:MET:HE1	1.76	0.65
4:BP:92:LEU:HD13	4:BP:141:ILE:HD11	1.77	0.65
4:Bo:74:ILE:O	4:Bo:78:THR:HG23	1.96	0.65
5:Bq:142:ILE:O	5:Bq:146:ILE:HG13	1.96	0.65
9:C1:28:ILE:HD13	10:C2:24:ILE:HD11	1.78	0.65
8:C5:23:TYR:HE2	8:CH:15:LYS:HZ1	1.44	0.65
8:C5:24:LEU:HB3	10:C7:24:ILE:CD1	2.19	0.65
9:C6:82:VAL:HG23	9:C6:88:ASP:CB	2.25	0.65
8:CC:15:LYS:NZ	8:Cg:23:TYR:HE2	1.94	0.65
5:CG:70:SER:O	5:CG:74:LEU:HD23	1.96	0.65
8:CH:74:PRO:HG2	10:CJ:113:CYS:SG	2.36	0.65
8:CH:193:ILE:HD11	8:CH:214:LEU:HD11	1.76	0.65
9:CI:162:VAL:HG12	9:CI:163:THR:H	1.59	0.65
8:CR:57:LEU:CA	8:CR:198:LEU:O	2.38	0.65
8:CW:193:ILE:HD11	8:CW:214:LEU:HD11	1.76	0.65
10:CY:57:LEU:C	10:CY:58:GLU:CG	2.40	0.65
9:Cc:82:VAL:HG23	9:Cc:88:ASP:CB	2.25	0.65
5:Ck:70:SER:O	5:Ck:74:LEU:HD23	1.96	0.65
8:Cl:74:PRO:HG2	10:Cn:113:CYS:SG	2.36	0.65
8:Cv:74:PRO:HG2	10:Cx:113:CYS:SG	2.36	0.65
10:Cx:192:PHE:HB3	10:Cx:194:GLY:N	2.11	0.65
3:AE:102:ILE:HA	3:AE:150:LEU:CG	2.25	0.65
2:AN:20:GLN:HE21	2:AN:135:TRP:HE1	1.43	0.65
4:AQ:6:VAL:O	4:AQ:10:LEU:HD13	1.95	0.65
4:AQ:101:ILE:HB	4:AQ:106:PHE:HE1	1.61	0.65
1:AR:58:ASP:OD2	1:AR:61:HIS:HB2	1.96	0.65
2:AS:143:ILE:HA	2:AS:146:ILE:HD11	1.76	0.65
2:Ah:70:SER:O	2:Ah:74:LEU:HD23	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ar:20:GLN:HE21	2:Ar:135:TRP:HE1	1.43	0.65
6:B1:102:ILE:HD11	6:B1:149:ASP:HB2	1.78	0.65
5:BC:142:ILE:O	5:BC:146:ILE:HG13	1.96	0.65
6:BI:109:LYS:CD	6:BI:151:PRO:HG2	2.22	0.65
6:BX:102:ILE:HD11	6:BX:149:ASP:HB2	1.78	0.65
6:Bc:150:LEU:HD22	6:Bc:150:LEU:O	1.96	0.65
8:CC:23:TYR:HE2	8:Cg:15:LYS:NZ	1.94	0.65
9:CD:57:ILE:CG2	10:CE:57:LEU:HD12	2.09	0.65
9:CD:162:VAL:HG12	9:CD:163:THR:H	1.59	0.65
9:CN:162:VAL:HG12	9:CN:163:THR:H	1.59	0.65
9:CN:173:ASN:HB3	9:CN:176:SER:CB	2.26	0.65
8:CR:23:TYR:HE2	8:Cv:15:LYS:NZ	1.94	0.65
9:CS:10:LEU:O	9:CS:14:LEU:HD23	1.97	0.65
9:CS:13:ARG:CZ	10:CT:14:ILE:HG13	2.25	0.65
9:CX:28:ILE:HD13	10:CY:24:ILE:HD11	1.78	0.65
9:Cc:46:PHE:HZ	10:Cd:47:ALA:CA	2.08	0.65
8:Cl:193:ILE:HD11	8:Cl:214:LEU:HD11	1.76	0.65
9:Cr:160:GLU:HG2	9:Cr:161:ASN:H	1.60	0.65
8:Cv:57:LEU:CA	8:Cv:198:LEU:O	2.38	0.65
9:Cw:10:LEU:O	9:Cw:14:LEU:HD23	1.97	0.65
2:AD:70:SER:O	2:AD:74:LEU:HD23	1.97	0.65
4:AL:101:ILE:HB	4:AL:106:PHE:HE1	1.61	0.65
2:Ac:115:LEU:HB2	2:Ac:143:ILE:CD1	2.25	0.65
4:Af:18:ARG:HH22	4:Af:124:CYS:HB2	1.60	0.65
3:Ai:102:ILE:HA	3:Ai:150:LEU:CG	2.25	0.65
4:Au:101:ILE:HB	4:Au:106:PHE:HE1	1.61	0.65
1:Av:58:ASP:OD2	1:Av:61:HIS:HB2	1.96	0.65
7:B4:58:ASP:OD2	7:B4:61:HIS:HB2	1.96	0.65
6:B6:150:LEU:HD22	6:B6:150:LEU:O	1.96	0.65
6:BI:102:ILE:HD11	6:BI:149:ASP:HB2	1.78	0.65
5:Bg:142:ILE:O	5:Bg:146:ILE:HG13	1.96	0.65
6:Bm:102:ILE:HD11	6:Bm:149:ASP:HB2	1.78	0.65
4:Bt:92:LEU:HD13	4:Bt:141:ILE:HD11	1.77	0.65
9:C6:46:PHE:HZ	10:C7:47:ALA:CA	2.08	0.65
5:CB:20:GLN:HE21	5:CB:135:TRP:HE1	1.44	0.65
9:CN:35:LEU:HA	10:CO:35:LEU:HD21	1.79	0.65
8:CR:15:LYS:NZ	8:Cv:23:TYR:HE2	1.94	0.65
8:CR:74:PRO:HG2	10:CT:113:CYS:SG	2.36	0.65
9:CS:53:ARG:CG	10:CT:54:VAL:HG11	2.20	0.65
9:Ch:162:VAL:HG12	9:Ch:163:THR:H	1.59	0.65
9:Cm:201:ASP:CB	9:Cm:204:ARG:HE	2.07	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:35:LEU:HA	10:Cs:35:LEU:HD21	1.79	0.65
9:Cr:173:ASN:HB3	9:Cr:176:SER:CB	2.26	0.65
9:Cw:214:THR:HG22	9:Cw:216:HIS:HB2	1.76	0.65
2:A6:18:LYS:HZ2	2:A6:82:SER:HA	1.60	0.65
2:A6:115:LEU:HB2	2:A6:143:ILE:CD1	2.25	0.65
1:AM:22:LEU:HG	1:AM:128:LEU:HD21	1.78	0.65
2:AN:70:SER:O	2:AN:74:LEU:HD23	1.96	0.65
2:AS:20:GLN:HE21	2:AS:135:TRP:HE1	1.43	0.65
3:Ai:58:ILE:HG22	3:Ai:66:PHE:CE1	2.31	0.65
1:Aq:22:LEU:HG	1:Aq:128:LEU:HD21	1.78	0.65
1:Aq:58:ASP:OD2	1:Aq:61:HIS:HB2	1.96	0.65
2:Ar:70:SER:O	2:Ar:74:LEU:HD23	1.96	0.65
2:Aw:20:GLN:HE21	2:Aw:135:TRP:HE1	1.43	0.65
4:BK:94:VAL:HA	4:BK:97:GLU:HG2	1.78	0.65
6:Bm:109:LYS:CD	6:Bm:151:PRO:HG2	2.22	0.65
6:Br:102:ILE:HG23	6:Br:150:LEU:CD2	2.27	0.65
10:C7:63:ASP:N	10:C7:66:GLU:HB2	2.08	0.65
9:CD:214:THR:HG22	9:CD:216:HIS:HB2	1.76	0.65
10:CE:22:ASN:O	10:CE:26:THR:HG23	1.96	0.65
9:CS:214:THR:HG22	9:CS:216:HIS:HB2	1.76	0.65
8:CW:34:GLU:HA	8:CW:37:LYS:HE2	1.77	0.65
9:CX:35:LEU:HA	10:CY:35:LEU:HD21	1.79	0.65
5:Cf:20:GLN:HE21	5:Cf:135:TRP:HE1	1.44	0.65
9:Ch:42:ASP:HA	10:Ci:38:ARG:NE	2.06	0.65
5:Ck:20:GLN:HE21	5:Ck:135:TRP:HE1	1.44	0.65
9:Cm:10:LEU:O	9:Cm:14:LEU:HD23	1.96	0.65
9:Cm:162:VAL:HG12	9:Cm:163:THR:H	1.59	0.65
9:Cr:162:VAL:HG12	9:Cr:163:THR:H	1.59	0.65
8:Cv:161:THR:HG22	8:Cv:162:VAL:N	2.10	0.65
9:Cw:13:ARG:CZ	10:Cx:14:ILE:HG13	2.25	0.65
9:Cw:14:LEU:HD21	10:Cx:14:ILE:HG21	0.72	0.65
1:A5:22:LEU:HG	1:A5:128:LEU:HD21	1.78	0.65
3:AE:58:ILE:HG22	3:AE:66:PHE:CE1	2.31	0.65
3:AJ:150:LEU:HB3	3:AJ:151:PRO:HD3	1.77	0.65
1:AM:58:ASP:OD2	1:AM:61:HIS:HB2	1.96	0.65
2:AS:70:SER:O	2:AS:74:LEU:HD23	1.97	0.65
1:Ab:22:LEU:HG	1:Ab:128:LEU:HD21	1.78	0.65
3:An:58:ILE:HG22	3:An:66:PHE:CE1	2.31	0.65
4:Ap:101:ILE:HB	4:Ap:106:PHE:HE1	1.61	0.65
3:Ax:150:LEU:HB3	3:Ax:151:PRO:HD3	1.77	0.65
6:BN:102:ILE:HG23	6:BN:150:LEU:CD2	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ba:58:ASP:OD2	7:Ba:61:HIS:HB2	1.96	0.65
4:Bo:94:VAL:HA	4:Bo:97:GLU:HG2	1.78	0.65
8:C0:23:TYR:HE2	8:CM:15:LYS:HE2	1.61	0.65
9:C1:35:LEU:HA	10:C2:35:LEU:HD21	1.79	0.65
9:C1:214:THR:HG22	9:C1:216:HIS:HB2	1.76	0.65
8:C5:175:LYS:CG	8:C5:177:GLU:HB3	2.27	0.65
5:CB:70:SER:O	5:CB:74:LEU:HD23	1.96	0.65
5:CG:20:GLN:HE21	5:CG:135:TRP:HE1	1.44	0.65
9:CI:10:LEU:O	9:CI:14:LEU:HD23	1.96	0.65
9:CI:82:VAL:HG23	9:CI:88:ASP:CB	2.26	0.65
8:CM:74:PRO:HD3	10:CO:217:ILE:HG13	1.77	0.65
9:CN:82:VAL:HG23	9:CN:88:ASP:CB	2.25	0.65
8:CR:161:THR:HG22	8:CR:162:VAL:N	2.10	0.65
5:Ca:70:SER:O	5:Ca:74:LEU:HD23	1.96	0.65
8:Cb:175:LYS:CG	8:Cb:177:GLU:HB3	2.27	0.65
9:Ch:214:THR:HG22	9:Ch:216:HIS:HB2	1.76	0.65
10:Ci:22:ASN:O	10:CI:26:THR:HG23	1.96	0.65
7:Co:58:ASP:OD2	7:Co:61:HIS:HB2	1.96	0.65
9:Cw:82:VAL:HG23	9:Cw:88:ASP:CB	2.26	0.65
3:AJ:58:ILE:HG22	3:AJ:66:PHE:CE1	2.31	0.65
1:Al:22:LEU:HG	1:Al:128:LEU:HD21	1.78	0.65
3:An:150:LEU:HB3	3:An:151:PRO:HD3	1.77	0.65
2:Aw:70:SER:O	2:Aw:74:LEU:HD23	1.97	0.65
6:BI:102:ILE:HG23	6:BI:150:LEU:CD2	2.27	0.65
6:BN:109:LYS:CD	6:BN:151:PRO:HG2	2.22	0.65
6:BX:150:LEU:O	6:BX:150:LEU:HD22	1.96	0.65
8:C0:34:GLU:HA	8:C0:37:LYS:HE2	1.77	0.65
8:C0:54:ILE:C	10:C2:53:ARG:NH2	2.52	0.65
5:C4:20:GLN:HE21	5:C4:135:TRP:HE1	1.44	0.65
10:CE:192:PHE:HB3	10:CE:194:GLY:N	2.11	0.65
8:CH:24:LEU:HB3	10:CJ:24:ILE:CD1	2.19	0.65
8:CH:175:LYS:CG	8:CH:177:GLU:HB3	2.27	0.65
9:CI:201:ASP:CB	9:CI:204:ARG:HE	2.07	0.65
10:CJ:117:CYS:HB3	10:CJ:214:ALA:HB2	1.79	0.65
9:CN:10:LEU:O	9:CN:14:LEU:HD23	1.96	0.65
9:CN:13:ARG:CZ	10:CO:14:ILE:HD12	2.19	0.65
9:CN:46:PHE:HZ	10:CO:47:ALA:CA	2.08	0.65
9:CS:14:LEU:HD21	10:CT:14:ILE:HG21	0.72	0.65
10:CY:82:VAL:HG12	10:CY:94:ASP:CB	2.21	0.65
5:Ca:20:GLN:HE21	5:Ca:135:TRP:HE1	1.44	0.65
5:Cf:70:SER:O	5:Cf:74:LEU:HD23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:74:PRO:HG2	10:Ci:113:CYS:SG	2.36	0.65
10:Ci:117:CYS:HB3	10:Ci:214:ALA:HB2	1.79	0.65
8:Cl:175:LYS:CG	8:Cl:177:GLU:HB3	2.27	0.65
9:Cm:82:VAL:HG23	9:Cm:88:ASP:CB	2.26	0.65
10:Cn:117:CYS:HB3	10:Cn:214:ALA:HB2	1.79	0.65
9:Cr:10:LEU:O	9:Cr:14:LEU:HD23	1.96	0.65
9:Cr:13:ARG:CZ	10:Cs:14:ILE:HD12	2.19	0.65
9:Cr:82:VAL:HG23	9:Cr:88:ASP:CB	2.25	0.65
3:A7:58:ILE:HG22	3:A7:66:PHE:CE1	2.31	0.65
1:AH:22:LEU:HG	1:AH:128:LEU:HD21	1.78	0.65
3:AJ:102:ILE:HG12	3:AJ:150:LEU:HG	1.79	0.65
3:AT:150:LEU:HB3	3:AT:151:PRO:HD3	1.77	0.65
3:An:102:ILE:HG12	3:An:150:LEU:HG	1.79	0.65
6:B1:150:LEU:HD22	6:B1:150:LEU:O	1.96	0.65
6:Bm:102:ILE:HG23	6:Bm:150:LEU:CD2	2.27	0.65
10:C2:57:LEU:C	10:C2:58:GLU:CG	2.40	0.65
5:C4:70:SER:O	5:C4:74:LEU:HD23	1.96	0.65
9:C6:13:ARG:NH1	10:C7:14:ILE:CG1	2.37	0.65
8:CC:74:PRO:HG2	10:CE:113:CYS:SG	2.36	0.65
10:CE:117:CYS:HB3	10:CE:214:ALA:HB2	1.79	0.65
7:CK:58:ASP:OD2	7:CK:61:HIS:HB2	1.96	0.65
8:CW:15:LYS:NZ	8:Cq:23:TYR:HE2	1.94	0.65
8:CW:23:TYR:HE2	8:Cq:15:LYS:HE2	1.61	0.65
9:CX:214:THR:HG22	9:CX:216:HIS:HB2	1.76	0.65
10:CY:192:PHE:HB3	10:CY:194:GLY:N	2.11	0.65
8:Cb:23:TYR:HE2	8:Cl:15:LYS:NZ	1.94	0.65
9:Cc:10:LEU:O	9:Cc:14:LEU:HD23	1.96	0.65
8:Cl:24:LEU:HB3	10:Cn:24:ILE:CD1	2.19	0.65
8:Cq:74:PRO:HD3	10:Cs:217:ILE:HG13	1.77	0.65
1:A0:22:LEU:HG	1:A0:128:LEU:HD21	1.78	0.65
4:AG:79:LEU:HD12	4:AG:85:LEU:HD22	1.77	0.65
3:AO:58:ILE:HG22	3:AO:66:PHE:CE1	2.31	0.65
2:AX:70:SER:O	2:AX:74:LEU:HD23	1.97	0.65
3:Ad:58:ILE:HG22	3:Ad:66:PHE:CE1	2.31	0.65
4:Af:1:LYS:HD2	4:Af:131:ASP:OD1	1.96	0.65
9:C6:10:LEU:O	9:C6:14:LEU:HD23	1.96	0.65
10:C7:117:CYS:HB3	10:C7:214:ALA:HB2	1.79	0.65
10:C7:192:PHE:HB3	10:C7:194:GLY:N	2.11	0.65
9:CD:42:ASP:HA	10:CE:38:ARG:NE	2.06	0.65
9:CS:82:VAL:HG23	9:CS:88:ASP:CB	2.26	0.65
5:CV:115:LEU:HB2	5:CV:143:ILE:CD1	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CW:54:ILE:C	10:CY:53:ARG:NH2	2.52	0.65
8:CW:175:LYS:CG	8:CW:177:GLU:HB3	2.27	0.65
10:CI:192:PHE:HB3	10:CI:194:GLY:N	2.11	0.65
9:Cr:46:PHE:HZ	10:Cs:47:ALA:CA	2.08	0.65
7:Ct:58:ASP:OD2	7:Ct:61:HIS:HB2	1.96	0.65
5:Cz:115:LEU:HB2	5:Cz:143:ILE:CD1	2.27	0.65
2:A1:70:SER:O	2:A1:74:LEU:HD23	1.97	0.65
4:AB:1:LYS:HD2	4:AB:131:ASP:OD1	1.96	0.65
1:AC:58:ASP:OD2	1:AC:61:HIS:HB2	1.96	0.65
2:AI:70:SER:O	2:AI:74:LEU:HD23	1.97	0.65
1:AW:22:LEU:HG	1:AW:128:LEU:HD21	1.78	0.65
4:Ak:79:LEU:HD12	4:Ak:85:LEU:HD22	1.77	0.65
3:As:58:ILE:HG22	3:As:66:PHE:CE1	2.31	0.65
4:Az:101:ILE:HB	4:Az:106:PHE:HE1	1.61	0.65
6:B6:102:ILE:HG23	6:B6:150:LEU:CD2	2.27	0.65
4:BF:92:LEU:HD13	4:BF:141:ILE:HD11	1.77	0.65
6:BX:102:ILE:HG23	6:BX:150:LEU:CD2	2.27	0.65
6:Br:109:LYS:CD	6:Br:151:PRO:HG2	2.22	0.65
6:Bw:150:LEU:HD22	6:Bw:150:LEU:O	1.96	0.65
8:C0:15:LYS:NZ	8:CM:23:TYR:HE2	1.94	0.65
8:C0:175:LYS:CG	8:C0:177:GLU:HB3	2.27	0.65
10:C2:192:PHE:HB3	10:C2:194:GLY:N	2.11	0.65
8:C5:23:TYR:HE2	8:CH:15:LYS:NZ	1.94	0.65
8:CC:23:TYR:H	10:CE:20:ARG:NH2	1.95	0.65
10:CE:192:PHE:HB3	10:CE:194:GLY:CA	2.27	0.65
8:CR:15:LYS:HZ1	8:Cv:23:TYR:HE2	1.44	0.65
10:Cd:117:CYS:HB3	10:Cd:214:ALA:HB2	1.79	0.65
10:CI:192:PHE:HB3	10:CI:194:GLY:CA	2.27	0.65
10:Cs:22:ASN:O	10:Cs:26:THR:HG23	1.96	0.65
8:Cv:34:GLU:HA	8:Cv:37:LYS:HE2	1.77	0.65
1:A5:48:PRO:C	1:A5:50:VAL:H	2.05	0.65
3:AE:102:ILE:HG12	3:AE:150:LEU:HG	1.79	0.65
4:AV:1:LYS:HD2	4:AV:131:ASP:OD1	1.96	0.65
1:Ab:48:PRO:C	1:Ab:50:VAL:H	2.05	0.65
2:Am:70:SER:O	2:Am:74:LEU:HD23	1.97	0.65
6:B1:102:ILE:HG23	6:B1:150:LEU:CD2	2.27	0.65
6:B6:102:ILE:HD11	6:B6:149:ASP:HB2	1.78	0.65
6:BD:102:ILE:HG23	6:BD:150:LEU:CD2	2.27	0.65
5:BM:115:LEU:HB2	5:BM:143:ILE:CD1	2.27	0.65
6:BS:150:LEU:HD22	6:BS:150:LEU:O	1.96	0.65
6:Bc:102:ILE:HD11	6:Bc:149:ASP:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bc:102:ILE:HG23	6:Bc:150:LEU:CD2	2.27	0.65
5:Bq:115:LEU:HB2	5:Bq:143:ILE:CD1	2.27	0.65
10:C7:22:ASN:O	10:C7:26:THR:HG23	1.96	0.65
8:CC:101:SER:CB	8:CC:104:ILE:HG13	2.19	0.65
9:CD:28:ILE:HD13	10:CE:24:ILE:HD11	1.78	0.65
8:CH:28:LEU:HD11	10:CJ:27:SER:HB2	0.69	0.65
10:CO:22:ASN:O	10:CO:26:THR:HG23	1.96	0.65
7:CP:58:ASP:OD2	7:CP:61:HIS:HB2	1.96	0.65
10:CT:192:PHE:HB3	10:CT:194:GLY:CA	2.27	0.65
10:Cd:192:PHE:HB3	10:Cd:194:GLY:CA	2.27	0.65
10:Cd:192:PHE:HB3	10:Cd:194:GLY:N	2.11	0.65
8:Cg:23:TYR:H	10:Ci:20:ARG:NH2	1.95	0.65
9:Ch:28:ILE:HD13	10:Ci:24:ILE:HD11	1.78	0.65
4:A4:1:LYS:HD2	4:A4:131:ASP:OD1	1.96	0.64
1:A5:58:ASP:OD2	1:A5:61:HIS:HB2	1.96	0.64
1:A5:134:LEU:CD2	6:B6:6:CYS:HB3	2.27	0.64
4:AV:101:ILE:HB	4:AV:106:PHE:HE1	1.61	0.64
4:Aa:1:LYS:HD2	4:Aa:131:ASP:OD1	1.96	0.64
1:Ag:58:ASP:OD2	1:Ag:61:HIS:HB2	1.96	0.64
4:Ak:101:ILE:HB	4:Ak:106:PHE:HE1	1.61	0.64
4:Az:1:LYS:HD2	4:Az:131:ASP:OD1	1.96	0.64
6:BD:102:ILE:HD11	6:BD:149:ASP:HB2	1.78	0.64
5:BH:142:ILE:O	5:BH:146:ILE:HG13	1.96	0.64
4:BP:94:VAL:HA	4:BP:97:GLU:HG2	1.78	0.64
4:BZ:74:ILE:O	4:BZ:78:THR:HG23	1.96	0.64
7:Bf:8:SER:H	7:Bf:11:ASP:CB	2.10	0.64
6:Bh:102:ILE:HD11	6:Bh:149:ASP:HB2	1.78	0.64
6:Bh:102:ILE:HG23	6:Bh:150:LEU:CD2	2.27	0.64
4:Bj:74:ILE:O	4:Bj:78:THR:HG23	1.96	0.64
4:Bt:94:VAL:HA	4:Bt:97:GLU:HG2	1.78	0.64
6:Bw:102:ILE:HG23	6:Bw:150:LEU:CD2	2.27	0.64
4:By:94:VAL:HA	4:By:97:GLU:HG2	1.78	0.64
9:C6:35:LEU:HA	10:C7:35:LEU:HD21	1.79	0.64
9:CD:82:VAL:HG23	9:CD:88:ASP:CB	2.26	0.64
10:CJ:22:ASN:O	10:CJ:26:THR:HG23	1.96	0.64
9:CN:24:LEU:CD2	10:CO:24:ILE:HG22	2.27	0.64
9:CN:132:ILE:HD12	9:CN:147:LEU:HD12	1.78	0.64
10:CO:117:CYS:HB3	10:CO:214:ALA:HB2	1.79	0.64
8:CR:28:LEU:HD23	8:CR:28:LEU:C	2.22	0.64
8:CR:34:GLU:HA	8:CR:37:LYS:HE2	1.77	0.64
8:CR:175:LYS:CG	8:CR:177:GLU:HB3	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CS:132:ILE:HD12	9:CS:147:LEU:HD12	1.78	0.64
9:Cc:13:ARG:NH1	10:Cd:14:ILE:CG1	2.37	0.64
9:Cc:138:ARG:H	9:Cc:141:PHE:HB2	1.61	0.64
10:Cd:22:ASN:O	10:Cd:26:THR:HG23	1.96	0.64
10:Cn:22:ASN:O	10:Cn:26:THR:HG23	1.96	0.64
9:Cr:132:ILE:HD12	9:Cr:147:LEU:HD12	1.78	0.64
5:Cu:115:LEU:HB2	5:Cu:143:ILE:CD1	2.27	0.64
8:Cv:28:LEU:HD23	8:Cv:28:LEU:C	2.22	0.64
10:Cx:192:PHE:HB3	10:Cx:194:GLY:CA	2.27	0.64
1:A0:48:PRO:C	1:A0:50:VAL:H	2.05	0.64
4:AG:101:ILE:HB	4:AG:106:PHE:HE1	1.61	0.64
1:AW:48:PRO:C	1:AW:50:VAL:H	2.05	0.64
1:Ab:134:LEU:CD2	6:Bc:6:CYS:HB3	2.27	0.64
3:Ai:102:ILE:HG12	3:Ai:150:LEU:HG	1.79	0.64
7:B4:22:LEU:HG	7:B4:128:LEU:HD21	1.80	0.64
6:BD:150:LEU:HD22	6:BD:150:LEU:O	1.96	0.64
5:BR:115:LEU:HB2	5:BR:143:ILE:CD1	2.28	0.64
6:BS:102:ILE:HG23	6:BS:150:LEU:CD2	2.27	0.64
4:BU:94:VAL:HA	4:BU:97:GLU:HG2	1.78	0.64
5:Bl:142:ILE:O	5:Bl:146:ILE:HG13	1.96	0.64
5:Bv:115:LEU:HB2	5:Bv:143:ILE:CD1	2.28	0.64
8:C0:23:TYR:HE2	8:CM:15:LYS:HZ1	1.44	0.64
10:C2:192:PHE:HB3	10:C2:194:GLY:CA	2.27	0.64
9:C6:138:ARG:H	9:C6:141:PHE:HB2	1.61	0.64
10:C7:192:PHE:HB3	10:C7:194:GLY:CA	2.27	0.64
9:CD:10:LEU:O	9:CD:14:LEU:HD23	1.97	0.64
10:CE:165:ALA:HB1	10:CE:179:HIS:O	1.98	0.64
5:CQ:115:LEU:HB2	5:CQ:143:ILE:CD1	2.27	0.64
9:Cc:35:LEU:HA	10:Cd:35:LEU:HD21	1.79	0.64
9:Ch:10:LEU:O	9:Ch:14:LEU:HD23	1.97	0.64
9:Ch:82:VAL:HG23	9:Ch:88:ASP:CB	2.26	0.64
8:Cl:28:LEU:HD11	10:Cn:27:SER:HB2	0.69	0.64
9:Cm:132:ILE:HD12	9:Cm:147:LEU:HD12	1.77	0.64
9:Cr:24:LEU:CD2	10:Cs:24:ILE:HG22	2.27	0.64
9:Cr:138:ARG:H	9:Cr:141:PHE:HB2	1.61	0.64
10:Cs:117:CYS:HB3	10:Cs:214:ALA:HB2	1.79	0.64
8:Cv:175:LYS:CG	8:Cv:177:GLU:HB3	2.27	0.64
9:Cw:35:LEU:HA	10:Cx:35:LEU:HD21	1.79	0.64
9:Cw:160:GLU:HG2	9:Cw:161:ASN:H	1.60	0.64
3:A2:58:ILE:HG22	3:A2:66:PHE:CE1	2.31	0.64
3:AY:58:ILE:HG22	3:AY:66:PHE:CE1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:58:ASP:OD2	1:Ab:61:HIS:HB2	1.96	0.64
4:Ak:1:LYS:HD2	4:Ak:131:ASP:OD1	1.96	0.64
5:B0:115:LEU:HB2	5:B0:143:ILE:CD1	2.28	0.64
4:B3:74:ILE:O	4:B3:78:THR:HG23	1.96	0.64
5:B5:115:LEU:HB2	5:B5:143:ILE:CD1	2.27	0.64
7:BB:8:SER:H	7:BB:11:ASP:CB	2.10	0.64
4:BF:74:ILE:O	4:BF:78:THR:HG23	1.96	0.64
5:BW:115:LEU:HB2	5:BW:143:ILE:CD1	2.28	0.64
7:Ba:22:LEU:HG	7:Ba:128:LEU:HD21	1.80	0.64
5:Bb:115:LEU:HB2	5:Bb:143:ILE:CD1	2.27	0.64
6:Bh:150:LEU:HD22	6:Bh:150:LEU:O	1.96	0.64
6:Bm:150:LEU:HD22	6:Bm:150:LEU:O	1.96	0.64
10:C2:22:ASN:O	10:C2:26:THR:HG23	1.96	0.64
8:C5:15:LYS:NZ	8:CH:23:TYR:HE2	1.94	0.64
9:CI:132:ILE:HD12	9:CI:147:LEU:HD12	1.77	0.64
9:CI:138:ARG:HD2	10:CO:157:ASP:CG	2.23	0.64
8:CW:161:THR:HG22	8:CW:162:VAL:N	2.10	0.64
10:CY:22:ASN:O	10:CY:26:THR:HG23	1.96	0.64
10:CY:117:CYS:HB3	10:CY:214:ALA:HB2	1.79	0.64
10:CY:192:PHE:HB3	10:CY:194:GLY:CA	2.27	0.64
5:Ca:115:LEU:HB2	5:Ca:143:ILE:CD1	2.27	0.64
9:Cc:38:ALA:CB	10:Cd:35:LEU:HD11	2.16	0.64
10:Ci:165:ALA:HB1	10:Ci:179:HIS:O	1.98	0.64
9:Cm:13:ARG:CZ	10:Cn:14:ILE:HG13	2.25	0.64
9:Cm:138:ARG:HD2	10:Cs:157:ASP:CG	2.23	0.64
9:Cw:132:ILE:HD12	9:Cw:147:LEU:HD12	1.78	0.64
10:Cx:165:ALA:HB1	10:Cx:179:HIS:O	1.98	0.64
3:AK:126:VAL:HG23	3:AK:127:LEU:CD2	2.28	0.64
4:AL:1:LYS:HD2	4:AL:131:ASP:OD1	1.96	0.64
3:Ao:126:VAL:HG23	3:Ao:127:LEU:CD2	2.28	0.64
7:B4:8:SER:H	7:B4:11:ASP:CB	2.10	0.64
6:Br:150:LEU:HD22	6:Br:150:LEU:O	1.96	0.64
9:C1:20:LEU:HD22	10:C2:21:THR:CG2	2.21	0.64
10:C2:117:CYS:HB3	10:C2:214:ALA:HB2	1.79	0.64
5:C4:115:LEU:HB2	5:C4:143:ILE:CD1	2.27	0.64
10:C7:198:ASP:CG	10:C7:220:ARG:HE	2.06	0.64
9:CD:138:ARG:H	9:CD:141:PHE:HB2	1.61	0.64
9:CD:138:ARG:HD2	10:CJ:157:ASP:CG	2.23	0.64
9:CI:13:ARG:CZ	10:CJ:14:ILE:HG13	2.25	0.64
9:CN:138:ARG:H	9:CN:141:PHE:HB2	1.61	0.64
10:CO:192:PHE:HB3	10:CO:194:GLY:CA	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CS:35:LEU:HA	10:CT:35:LEU:HD21	1.79	0.64
9:CS:160:GLU:HG2	9:CS:161:ASN:H	1.60	0.64
10:CT:22:ASN:O	10:CT:26:THR:HG23	1.96	0.64
10:CT:165:ALA:HB1	10:CT:179:HIS:O	1.98	0.64
8:Cg:101:SER:CB	8:Cg:104:ILE:HG13	2.19	0.64
9:Ch:138:ARG:HD2	10:Cn:157:ASP:CG	2.23	0.64
7:Co:74:ILE:HG23	7:Co:75:LEU:N	2.13	0.64
10:Cx:22:ASN:O	10:Cx:26:THR:HG23	1.96	0.64
4:AG:1:LYS:HD2	4:AG:131:ASP:OD1	1.96	0.64
1:AH:58:ASP:OD2	1:AH:61:HIS:HB2	1.96	0.64
4:Ap:1:LYS:HD2	4:Ap:131:ASP:OD1	1.96	0.64
3:At:126:VAL:HG23	3:At:127:LEU:CD2	2.28	0.64
6:BI:150:LEU:O	6:BI:150:LEU:HD22	1.96	0.64
4:BU:87:GLU:HB3	7:BV:69:ALA:HB2	1.80	0.64
4:Bo:87:GLU:HB3	7:Bp:69:ALA:HB2	1.80	0.64
4:By:87:GLU:HB3	7:Bz:69:ALA:HB2	1.80	0.64
8:C0:161:THR:HG22	8:C0:162:VAL:N	2.10	0.64
9:C1:10:LEU:O	9:C1:14:LEU:HD23	1.96	0.64
10:C7:165:ALA:HB1	10:C7:179:HIS:O	1.98	0.64
8:CH:23:TYR:H	10:CJ:20:ARG:NH2	1.95	0.64
7:CK:74:ILE:HG23	7:CK:75:LEU:N	2.13	0.64
8:CR:23:TYR:HE2	8:Cv:15:LYS:HZ1	1.44	0.64
9:CS:14:LEU:HD21	10:CT:14:ILE:CB	2.28	0.64
9:CX:20:LEU:HD22	10:CY:21:THR:CG2	2.21	0.64
9:CX:138:ARG:H	9:CX:141:PHE:HB2	1.61	0.64
8:Cb:15:LYS:NZ	8:Cl:23:TYR:HE2	1.94	0.64
10:Cd:165:ALA:HB1	10:Cd:179:HIS:O	1.98	0.64
10:Cd:198:ASP:CG	10:Cd:220:ARG:HE	2.06	0.64
8:Cg:28:LEU:HD23	8:Cg:28:LEU:C	2.22	0.64
8:Cl:23:TYR:H	10:Cn:20:ARG:NH2	1.95	0.64
10:Cs:192:PHE:HB3	10:Cs:194:GLY:CA	2.27	0.64
3:AP:126:VAL:HG23	3:AP:127:LEU:CD2	2.28	0.64
3:AT:102:ILE:HG12	3:AT:150:LEU:HG	1.79	0.64
1:AW:134:LEU:CD2	6:BX:6:CYS:HB3	2.27	0.64
1:Al:58:ASP:OD2	1:Al:61:HIS:HB2	1.96	0.64
4:B3:87:GLU:HB3	7:B4:69:ALA:HB2	1.80	0.64
7:BG:22:LEU:HG	7:BG:128:LEU:HD21	1.80	0.64
4:BK:87:GLU:HB3	7:BL:69:ALA:HB2	1.80	0.64
4:BK:92:LEU:HD13	4:BK:141:ILE:HD11	1.77	0.64
6:BN:150:LEU:HD22	6:BN:150:LEU:O	1.96	0.64
4:BZ:87:GLU:HB3	7:Ba:69:ALA:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ba:8:SER:H	7:Ba:11:ASP:CB	2.10	0.64
10:C2:165:ALA:HB1	10:C2:179:HIS:O	1.98	0.64
9:C6:138:ARG:HD2	10:Ci:157:ASP:CG	2.23	0.64
8:CC:28:LEU:HD23	8:CC:28:LEU:C	2.22	0.64
10:CE:157:ASP:CG	9:Cc:138:ARG:HD2	2.23	0.64
9:CI:24:LEU:CD2	10:CJ:24:ILE:HG22	2.27	0.64
9:CI:46:PHE:HZ	10:CJ:47:ALA:CA	2.08	0.64
9:CI:173:ASN:HB3	9:CI:176:SER:CB	2.26	0.64
5:CL:20:GLN:HE21	5:CL:135:TRP:HE1	1.44	0.64
9:CN:138:ARG:HD2	10:CT:157:ASP:CG	2.23	0.64
7:CP:74:ILE:HG23	7:CP:75:LEU:N	2.13	0.64
9:CX:10:LEU:O	9:CX:14:LEU:HD23	1.96	0.64
10:CY:165:ALA:HB1	10:CY:179:HIS:O	1.98	0.64
9:Cc:13:ARG:CZ	10:Cd:14:ILE:HD12	2.19	0.64
9:Cc:28:ILE:HD13	10:Cd:24:ILE:HD11	1.78	0.64
9:Ch:138:ARG:H	9:Ch:141:PHE:HB2	1.61	0.64
9:Cr:138:ARG:HD2	10:Cx:157:ASP:CG	2.23	0.64
7:Ct:74:ILE:HG23	7:Ct:75:LEU:N	2.13	0.64
9:Cw:14:LEU:HD21	10:Cx:14:ILE:CB	2.28	0.64
1:A0:66:LYS:CA	4:Az:87:GLU:HG2	2.28	0.64
1:A0:134:LEU:CD2	6:B1:6:CYS:HB3	2.27	0.64
1:AC:22:LEU:HG	1:AC:128:LEU:HD21	1.78	0.64
1:AC:48:PRO:C	1:AC:50:VAL:H	2.05	0.64
1:AR:134:LEU:CD2	6:BS:6:CYS:HB3	2.27	0.64
1:Ag:48:PRO:C	1:Ag:50:VAL:H	2.05	0.64
1:Av:134:LEU:CD2	6:Bw:6:CYS:HB3	2.27	0.64
3:Ax:102:ILE:HG12	3:Ax:150:LEU:HG	1.79	0.64
4:BF:87:GLU:HB3	7:BG:69:ALA:HB2	1.80	0.64
4:Bj:87:GLU:HB3	7:Bk:69:ALA:HB2	1.80	0.64
7:Bk:22:LEU:HG	7:Bk:128:LEU:HD21	1.80	0.64
5:Bl:115:LEU:HB2	5:Bl:143:ILE:CD1	2.28	0.64
4:Bo:92:LEU:HD13	4:Bo:141:ILE:HD11	1.77	0.64
9:C1:66:THR:CG2	9:C1:76:CYS:HB3	2.27	0.64
9:C1:138:ARG:H	9:C1:141:PHE:HB2	1.61	0.64
9:C6:13:ARG:CZ	10:C7:14:ILE:HD12	2.19	0.64
10:CJ:192:PHE:HB3	10:CJ:194:GLY:CA	2.27	0.64
9:CN:13:ARG:CZ	10:CO:14:ILE:HG13	2.25	0.64
10:CO:180:PRO:HB3	10:CO:186:LEU:O	1.98	0.64
10:CT:117:CYS:HB3	10:CT:214:ALA:HB2	1.79	0.64
10:CY:63:ASP:N	10:CY:66:GLU:HB2	2.08	0.64
8:Cg:175:LYS:CG	8:Cg:177:GLU:HB3	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cm:173:ASN:HB3	9:Cm:176:SER:CB	2.26	0.64
5:Cp:20:GLN:HE21	5:Cp:135:TRP:HE1	1.44	0.64
10:Cs:180:PRO:HB3	10:Cs:186:LEU:O	1.98	0.64
10:Cx:117:CYS:HB3	10:Cx:214:ALA:HB2	1.79	0.64
1:A0:18:GLN:NE2	1:A0:136:TRP:HE1	1.96	0.64
3:AA:23:TRP:HE1	3:AA:78:LYS:HZ2	1.46	0.64
3:AF:22:VAL:CG1	3:AF:127:LEU:HD22	2.25	0.64
3:AF:126:VAL:HG23	3:AF:127:LEU:CD2	2.28	0.64
2:AN:106:LEU:HD13	2:AN:111:PHE:CE1	2.33	0.64
4:AQ:87:GLU:HG2	1:AR:66:LYS:CA	2.28	0.64
1:AR:22:LEU:HG	1:AR:128:LEU:HD21	1.78	0.64
4:AV:87:GLU:HG2	1:AW:66:LYS:CA	2.28	0.64
1:AW:18:GLN:NE2	1:AW:136:TRP:HE1	1.96	0.64
1:Ag:22:LEU:HG	1:Ag:128:LEU:HD21	1.78	0.64
4:Au:87:GLU:HG2	1:Av:66:LYS:CA	2.28	0.64
5:BH:115:LEU:HB2	5:BH:143:ILE:CD1	2.28	0.64
7:BV:22:LEU:HG	7:BV:128:LEU:HD21	1.80	0.64
5:Bl:79:ILE:O	5:Bl:83:MET:HG2	1.98	0.64
8:C5:23:TYR:H	10:C7:20:ARG:NH2	1.95	0.64
9:C6:28:ILE:HD13	10:C7:24:ILE:HD11	1.78	0.64
8:CC:175:LYS:CG	8:CC:177:GLU:HB3	2.27	0.64
9:CD:14:LEU:HD21	10:CE:14:ILE:CB	2.28	0.64
9:CD:31:LEU:HD11	10:CE:28:ILE:C	2.23	0.64
10:CE:198:ASP:CG	10:CE:220:ARG:HE	2.06	0.64
9:CX:66:THR:CG2	9:CX:76:CYS:HB3	2.27	0.64
8:Cb:23:TYR:H	10:Cd:20:ARG:NH2	1.95	0.64
9:Ch:31:LEU:HD11	10:Ci:28:ILE:C	2.23	0.64
10:Ci:198:ASP:CG	10:Ci:220:ARG:HE	2.06	0.64
9:Cm:24:LEU:CD2	10:Cn:24:ILE:HG22	2.27	0.64
9:Cm:46:PHE:HZ	10:Cn:47:ALA:CA	2.08	0.64
10:Cn:192:PHE:HB3	10:Cn:194:GLY:CA	2.27	0.64
8:Cq:175:LYS:CG	8:Cq:177:GLU:HB3	2.27	0.64
9:Cr:66:THR:CG2	9:Cr:76:CYS:HB3	2.27	0.64
3:A2:102:ILE:HG12	3:A2:150:LEU:HG	1.79	0.64
3:Ae:23:TRP:HE1	3:Ae:78:LYS:HZ2	1.46	0.64
3:Aj:22:VAL:CG1	3:Aj:127:LEU:HD22	2.25	0.64
3:Aj:126:VAL:HG23	3:Aj:127:LEU:CD2	2.28	0.64
2:Ar:106:LEU:HD13	2:Ar:111:PHE:CE1	2.33	0.64
1:Av:22:LEU:HG	1:Av:128:LEU:HD21	1.78	0.64
5:BH:79:ILE:O	5:BH:83:MET:HG2	1.98	0.64
6:Bc:109:LYS:CD	6:Bc:151:PRO:HG2	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Bp:22:LEU:HG	7:Bp:128:LEU:HD21	1.80	0.64
7:Bz:22:LEU:HG	7:Bz:128:LEU:HD21	1.80	0.64
10:C2:198:ASP:CG	10:C2:220:ARG:HE	2.06	0.64
8:C5:28:LEU:HD23	8:C5:28:LEU:C	2.22	0.64
8:C5:54:ILE:C	10:C7:53:ARG:NH2	2.52	0.64
8:CM:175:LYS:CG	8:CM:177:GLU:HB3	2.27	0.64
9:CN:66:THR:CG2	9:CN:76:CYS:HB3	2.27	0.64
8:CR:15:LYS:HE2	8:Cv:23:TYR:HE2	1.61	0.64
10:CT:198:ASP:CG	10:CT:220:ARG:HE	2.06	0.64
7:CU:74:ILE:HG23	7:CU:75:LEU:N	2.13	0.64
5:CV:20:GLN:HE21	5:CV:135:TRP:HE1	1.44	0.64
8:Cb:41:ASP:OD2	10:Cd:43:ARG:NH2	2.31	0.64
8:Cl:41:ASP:OD2	10:Cn:43:ARG:NH2	2.31	0.64
10:Cx:198:ASP:CG	10:Cx:220:ARG:HE	2.06	0.64
2:AD:106:LEU:HD13	2:AD:111:PHE:CE1	2.33	0.64
3:AY:102:ILE:HG12	3:AY:150:LEU:HG	1.79	0.64
2:Ah:106:LEU:HD13	2:Ah:111:PHE:CE1	2.33	0.64
4:BA:87:GLU:HB3	7:BB:69:ALA:HB2	1.80	0.64
7:BL:22:LEU:HG	7:BL:128:LEU:HD21	1.80	0.64
4:BP:87:GLU:HB3	7:BQ:69:ALA:HB2	1.80	0.64
8:C0:28:LEU:HD23	8:C0:28:LEU:C	2.22	0.64
10:C2:63:ASP:N	10:C2:66:GLU:HB2	2.08	0.64
8:C5:41:ASP:OD2	10:C7:43:ARG:NH2	2.31	0.64
8:CC:41:ASP:OD2	10:CE:43:ARG:NH2	2.31	0.64
9:CD:132:ILE:HD12	9:CD:147:LEU:HD12	1.78	0.64
8:CH:21:ILE:N	10:CJ:20:ARG:NH1	2.39	0.64
8:CH:41:ASP:OD2	10:CJ:43:ARG:NH2	2.31	0.64
9:CI:31:LEU:HD11	10:CJ:28:ILE:O	1.98	0.64
9:CI:31:LEU:HD11	10:CJ:28:ILE:C	2.23	0.64
10:CJ:180:PRO:HB3	10:CJ:186:LEU:O	1.98	0.64
10:CJ:198:ASP:CG	10:CJ:220:ARG:HE	2.06	0.64
8:CR:56:ASN:CA	8:CR:199:GLY:CA	2.64	0.64
10:CY:198:ASP:CG	10:CY:220:ARG:HE	2.06	0.64
8:Cb:28:LEU:C	8:Cb:28:LEU:HD23	2.22	0.64
8:Cg:41:ASP:OD2	10:Ci:43:ARG:NH2	2.31	0.64
9:Ch:14:LEU:HD21	10:Ci:14:ILE:CB	2.28	0.64
9:Cm:13:ARG:NH1	10:Cn:14:ILE:CG1	2.37	0.64
9:Cm:31:LEU:HD11	10:Cn:28:ILE:C	2.23	0.64
9:Cm:31:LEU:HD11	10:Cn:28:ILE:O	1.98	0.64
9:Cr:13:ARG:CZ	10:Cs:14:ILE:HG13	2.25	0.64
9:Cw:138:ARG:H	9:Cw:141:PHE:HB2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cy:74:ILE:HG23	7:Cy:75:LEU:N	2.13	0.64
5:Cz:20:GLN:HE21	5:Cz:135:TRP:HE1	1.44	0.64
2:AI:106:LEU:HD13	2:AI:111:PHE:CE1	2.33	0.63
4:AQ:1:LYS:HD2	4:AQ:131:ASP:OD1	1.96	0.63
2:Am:106:LEU:HD13	2:Am:111:PHE:CE1	2.33	0.63
7:BB:22:LEU:HB3	7:BB:23:TRP:CE3	2.33	0.63
7:BQ:22:LEU:HB3	7:BQ:23:TRP:CE3	2.33	0.63
7:BV:8:SER:H	7:BV:11:ASP:CB	2.10	0.63
4:Be:87:GLU:HB3	7:Bf:69:ALA:HB2	1.80	0.63
7:Bf:22:LEU:HB3	7:Bf:23:TRP:CE3	2.33	0.63
7:Bk:8:SER:H	7:Bk:11:ASP:CB	2.10	0.63
4:Bt:87:GLU:HB3	7:Bu:69:ALA:HB2	1.80	0.63
7:Bu:22:LEU:HB3	7:Bu:23:TRP:CE3	2.33	0.63
7:Bz:8:SER:H	7:Bz:11:ASP:CB	2.10	0.63
9:C1:31:LEU:HD11	10:C2:28:ILE:O	1.98	0.63
8:CC:18:ASN:CB	10:CE:16:LYS:HZ3	2.09	0.63
9:CD:13:ARG:CZ	10:CE:14:ILE:HG13	2.25	0.63
9:CD:173:ASN:HB3	9:CD:176:SER:CB	2.26	0.63
9:CI:82:VAL:HA	9:CI:88:ASP:CG	2.23	0.63
8:CW:28:LEU:HD23	8:CW:28:LEU:C	2.22	0.63
9:CX:31:LEU:HD11	10:CY:28:ILE:O	1.98	0.63
9:CX:82:VAL:HA	9:CX:88:ASP:CG	2.23	0.63
8:Cb:54:ILE:C	10:Cd:53:ARG:NH2	2.52	0.63
9:Ch:13:ARG:CZ	10:CI:14:ILE:HG13	2.25	0.63
8:Cl:28:LEU:HD23	8:Cl:28:LEU:C	2.22	0.63
9:Cm:28:ILE:HD13	10:Cn:24:ILE:HD11	1.78	0.63
10:Cn:180:PRO:HB3	10:Cn:186:LEU:O	1.98	0.63
10:Cn:198:ASP:CG	10:Cn:220:ARG:HE	2.06	0.63
5:Cp:115:LEU:HB2	5:Cp:143:ILE:CD1	2.27	0.63
10:Cs:165:ALA:HB1	10:Cs:179:HIS:O	1.98	0.63
7:Cy:22:LEU:HG	7:Cy:128:LEU:HD21	1.81	0.63
1:AM:18:GLN:NE2	1:AM:136:TRP:HE1	1.96	0.63
1:Aq:18:GLN:NE2	1:Aq:136:TRP:HE1	1.96	0.63
4:Au:1:LYS:HD2	4:Au:131:ASP:OD1	1.96	0.63
6:B1:68:SER:HA	5:Cz:83:MET:HE1	1.80	0.63
9:C1:82:VAL:HA	9:C1:88:ASP:CG	2.23	0.63
10:C2:169:TYR:CZ	10:C2:174:HIS:HA	2.34	0.63
8:CH:28:LEU:HD23	8:CH:28:LEU:C	2.22	0.63
8:CH:57:LEU:CA	8:CH:198:LEU:O	2.38	0.63
9:CI:13:ARG:CZ	10:CJ:14:ILE:HD12	2.19	0.63
9:CI:35:LEU:HA	10:CJ:35:LEU:HD21	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:165:ALA:HB1	10:CJ:179:HIS:O	1.98	0.63
8:CM:28:LEU:HD23	8:CM:28:LEU:C	2.22	0.63
9:CN:31:LEU:HD11	10:CO:28:ILE:O	1.98	0.63
7:CP:22:LEU:HG	7:CP:128:LEU:HD21	1.81	0.63
8:CR:23:TYR:HE2	8:Cv:15:LYS:HE2	1.61	0.63
9:CS:138:ARG:H	9:CS:141:PHE:HB2	1.61	0.63
10:CT:169:TYR:CZ	10:CT:174:HIS:HA	2.34	0.63
7:CU:22:LEU:HG	7:CU:128:LEU:HD21	1.81	0.63
10:CY:169:TYR:CZ	10:CY:174:HIS:HA	2.34	0.63
7:CZ:22:LEU:HG	7:CZ:128:LEU:HD21	1.81	0.63
7:CZ:74:ILE:HG23	7:CZ:75:LEU:N	2.13	0.63
9:Ch:132:ILE:HD12	9:Ch:147:LEU:HD12	1.78	0.63
10:Ci:180:PRO:HB3	10:Ci:186:LEU:O	1.98	0.63
9:Cm:82:VAL:HA	9:Cm:88:ASP:CG	2.23	0.63
8:Cq:28:LEU:C	8:Cq:28:LEU:HD23	2.22	0.63
9:Cr:31:LEU:HD11	10:Cs:28:ILE:O	1.98	0.63
7:Ct:22:LEU:HG	7:Ct:128:LEU:HD21	1.81	0.63
4:A4:87:GLU:HG2	1:A5:66:LYS:CA	2.28	0.63
4:A4:122:GLY:HA2	8:C5:170:PHE:HZ	1.61	0.63
3:A7:102:ILE:HG12	3:A7:150:LEU:HG	1.79	0.63
3:A7:126:VAL:HG23	3:A7:127:LEU:CD2	2.29	0.63
3:AO:102:ILE:HG12	3:AO:150:LEU:HG	1.79	0.63
4:Aa:87:GLU:HG2	1:Ab:66:LYS:CA	2.28	0.63
3:Ad:126:VAL:HG23	3:Ad:127:LEU:CD2	2.29	0.63
3:At:150:LEU:HB2	3:At:151:PRO:HD3	1.80	0.63
6:B6:109:LYS:CD	6:B6:151:PRO:HG2	2.22	0.63
5:BC:115:LEU:HB2	5:BC:143:ILE:CD1	2.28	0.63
7:BG:8:SER:H	7:BG:11:ASP:CB	2.10	0.63
6:BX:68:SER:HA	5:CV:83:MET:HE1	1.80	0.63
8:C0:41:ASP:OD2	10:C2:43:ARG:NH2	2.31	0.63
10:C2:82:VAL:HG12	10:C2:94:ASP:CB	2.21	0.63
7:C3:22:LEU:HG	7:C3:128:LEU:HD21	1.81	0.63
7:C3:74:ILE:HG23	7:C3:75:LEU:N	2.13	0.63
8:C5:183:LEU:O	8:C5:184:LYS:HB2	1.99	0.63
7:CA:48:PRO:C	7:CA:50:VAL:H	2.06	0.63
9:CD:31:LEU:HD11	10:CE:28:ILE:O	1.98	0.63
10:CE:180:PRO:HB3	10:CE:186:LEU:O	1.98	0.63
9:CI:28:ILE:HD13	10:CJ:24:ILE:HD11	1.78	0.63
9:CI:138:ARG:H	9:CI:141:PHE:HB2	1.61	0.63
5:CL:115:LEU:HB2	5:CL:143:ILE:CD1	2.27	0.63
9:CN:42:ASP:N	10:CO:38:ARG:HH22	1.90	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CO:165:ALA:HB1	10:CO:179:HIS:O	1.98	0.63
10:CO:198:ASP:CG	10:CO:220:ARG:HE	2.06	0.63
8:Cb:183:LEU:O	8:Cb:184:LYS:HB2	1.99	0.63
7:Ce:48:PRO:C	7:Ce:50:VAL:H	2.06	0.63
9:Ch:31:LEU:HD11	10:Ci:28:ILE:O	1.98	0.63
9:Ch:173:ASN:HB3	9:Ch:176:SER:CB	2.26	0.63
8:Cl:57:LEU:CA	8:Cl:198:LEU:O	2.38	0.63
10:Cn:165:ALA:HB1	10:Cn:179:HIS:O	1.98	0.63
9:Cr:82:VAL:HA	9:Cr:88:ASP:CG	2.24	0.63
8:Cv:21:ILE:N	10:Cx:20:ARG:NH1	2.39	0.63
10:Cx:169:TYR:CZ	10:Cx:174:HIS:HA	2.34	0.63
2:A6:106:LEU:HD13	2:A6:111:PHE:CE1	2.33	0.63
4:AL:87:GLU:HG2	1:AM:66:LYS:CA	2.28	0.63
3:AP:150:LEU:HB2	3:AP:151:PRO:HD3	1.80	0.63
3:Aj:23:TRP:HE1	3:Aj:78:LYS:HZ2	1.46	0.63
4:Ap:87:GLU:HG2	1:Aq:66:LYS:CA	2.28	0.63
3:Ay:126:VAL:HG23	3:Ay:127:LEU:CD2	2.28	0.63
5:Bg:115:LEU:HB2	5:Bg:143:ILE:CD1	2.28	0.63
9:C1:17:ASN:OD1	10:C2:17:LEU:CD1	2.30	0.63
9:CD:82:VAL:HA	9:CD:88:ASP:CG	2.23	0.63
9:CN:82:VAL:HA	9:CN:88:ASP:CG	2.24	0.63
5:CQ:20:GLN:HE21	5:CQ:135:TRP:HE1	1.44	0.63
8:CW:41:ASP:OD2	10:CY:43:ARG:NH2	2.31	0.63
9:Ch:35:LEU:HA	10:Ci:35:LEU:HD21	1.79	0.63
9:Cm:13:ARG:CZ	10:Cn:14:ILE:HD12	2.19	0.63
9:Cm:35:LEU:HA	10:Cn:35:LEU:HD21	1.79	0.63
9:Cm:138:ARG:H	9:Cm:141:PHE:HB2	1.61	0.63
8:Cv:56:ASN:CA	8:Cv:199:GLY:CA	2.64	0.63
10:Cx:180:PRO:HB3	10:Cx:186:LEU:O	1.98	0.63
3:AA:150:LEU:HB2	3:AA:151:PRO:HD3	1.80	0.63
1:AH:48:PRO:C	1:AH:50:VAL:H	2.05	0.63
4:AL:101:ILE:CD1	4:AL:142:LYS:HA	2.28	0.63
3:AT:126:VAL:HG23	3:AT:127:LEU:CD2	2.28	0.63
3:AU:126:VAL:HG23	3:AU:127:LEU:CD2	2.28	0.63
3:AY:126:VAL:HG23	3:AY:127:LEU:CD2	2.29	0.63
3:AZ:23:TRP:HE1	3:AZ:78:LYS:HZ2	1.46	0.63
4:Aa:122:GLY:HA2	8:Cb:170:PHE:HZ	1.61	0.63
2:Ac:106:LEU:HD13	2:Ac:111:PHE:CE1	2.33	0.63
3:Ad:102:ILE:HG12	3:Ad:150:LEU:HG	1.79	0.63
3:Ae:150:LEU:HB2	3:Ae:151:PRO:HD3	1.80	0.63
1:Al:48:PRO:C	1:Al:50:VAL:H	2.05	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ap:122:GLY:HA2	8:Cq:170:PHE:HE2	1.64	0.63
3:As:102:ILE:HG12	3:As:150:LEU:HG	1.79	0.63
1:Av:18:GLN:NE2	1:Av:136:TRP:HE1	1.96	0.63
7:BG:74:ILE:HG23	7:BG:75:LEU:N	2.14	0.63
6:Bc:68:SER:HA	5:Ca:83:MET:HE1	1.80	0.63
6:Bw:68:SER:HA	5:Cu:83:MET:HE1	1.80	0.63
8:C0:23:TYR:H	10:C2:20:ARG:NH2	1.95	0.63
9:C1:53:ARG:HH12	10:C2:51:ARG:HG3	1.64	0.63
8:C5:77:ILE:HD12	8:C5:81:LEU:CD1	2.29	0.63
9:C6:20:LEU:HD22	10:C7:21:THR:CG2	2.21	0.63
5:CB:115:LEU:HB2	5:CB:143:ILE:CD1	2.27	0.63
10:CJ:89:CYS:HB2	10:CJ:92:GLY:H	1.63	0.63
10:CT:180:PRO:HB3	10:CT:186:LEU:O	1.98	0.63
9:Cc:82:VAL:HA	9:Cc:88:ASP:CG	2.24	0.63
9:Ch:82:VAL:HA	9:Ch:88:ASP:CG	2.23	0.63
10:Cn:89:CYS:HB2	10:Cn:92:GLY:H	1.63	0.63
10:Cs:198:ASP:CG	10:Cs:220:ARG:HE	2.06	0.63
5:Cu:20:GLN:HE21	5:Cu:135:TRP:HE1	1.44	0.63
3:A2:126:VAL:HG23	3:A2:127:LEU:CD2	2.29	0.63
4:A4:79:LEU:HD12	4:A4:85:LEU:CD2	2.29	0.63
3:AK:150:LEU:HB2	3:AK:151:PRO:HD3	1.80	0.63
4:AL:122:GLY:HA2	8:CM:170:PHE:HE2	1.64	0.63
1:AR:18:GLN:NE2	1:AR:136:TRP:HE1	1.96	0.63
4:Aa:79:LEU:HD12	4:Aa:85:LEU:CD2	2.29	0.63
3:Ao:150:LEU:HB2	3:Ao:151:PRO:HD3	1.80	0.63
3:Ax:126:VAL:HG23	3:Ax:127:LEU:CD2	2.28	0.63
6:B6:68:SER:HA	5:C4:83:MET:HE1	1.80	0.63
6:BS:68:SER:HA	5:CQ:83:MET:HE1	1.80	0.63
7:BV:22:LEU:HB3	7:BV:23:TRP:CE3	2.33	0.63
7:Bf:22:LEU:HB3	7:Bf:23:TRP:CZ3	2.34	0.63
7:Bf:22:LEU:HG	7:Bf:128:LEU:HD21	1.80	0.63
7:Bk:74:ILE:HG23	7:Bk:75:LEU:N	2.14	0.63
7:Bz:22:LEU:HB3	7:Bz:23:TRP:CE3	2.33	0.63
8:C0:77:ILE:HD12	8:C0:81:LEU:CD1	2.29	0.63
9:C6:82:VAL:HA	9:C6:88:ASP:CG	2.24	0.63
10:C7:89:CYS:HB2	10:C7:92:GLY:H	1.64	0.63
7:CA:22:LEU:HG	7:CA:128:LEU:HD21	1.81	0.63
8:CC:15:LYS:CE	8:Cg:23:TYR:CE2	2.76	0.63
8:CC:183:LEU:O	8:CC:184:LYS:HB2	1.99	0.63
9:CD:35:LEU:HA	10:CE:35:LEU:HD21	1.79	0.63
10:CE:89:CYS:HB2	10:CE:92:GLY:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CF:48:PRO:C	7:CF:50:VAL:H	2.06	0.63
9:CI:13:ARG:NH1	10:CJ:14:ILE:CG1	2.37	0.63
10:CJ:169:TYR:CZ	10:CJ:174:HIS:HA	2.34	0.63
8:CR:21:ILE:N	10:CT:20:ARG:NH1	2.39	0.63
8:CR:41:ASP:OD2	10:CT:43:ARG:NH2	2.31	0.63
8:CW:23:TYR:H	10:CY:20:ARG:NH2	1.95	0.63
8:CW:77:ILE:HD12	8:CW:81:LEU:CD1	2.29	0.63
9:CX:17:ASN:OD1	10:CY:17:LEU:CD1	2.30	0.63
9:CX:24:LEU:HD13	10:CY:21:THR:CG2	2.20	0.63
9:CX:53:ARG:HH12	10:CY:51:ARG:HG3	1.64	0.63
8:Cb:77:ILE:HD12	8:Cb:81:LEU:CD1	2.29	0.63
9:Cc:31:LEU:HD11	10:Cd:28:ILE:C	2.23	0.63
10:Cd:180:PRO:HB3	10:Cd:186:LEU:O	1.98	0.63
7:Ce:22:LEU:HG	7:Ce:128:LEU:HD21	1.81	0.63
5:Cf:115:LEU:HB2	5:Cf:143:ILE:CD1	2.27	0.63
7:Cj:48:PRO:C	7:Cj:50:VAL:H	2.06	0.63
10:Cn:169:TYR:CZ	10:Cn:174:HIS:HA	2.34	0.63
3:AA:126:VAL:HG23	3:AA:127:LEU:CD2	2.28	0.63
1:AC:18:GLN:NE2	1:AC:136:TRP:HE1	1.96	0.63
1:Ag:18:GLN:NE2	1:Ag:136:TRP:HE1	1.96	0.63
4:Ap:101:ILE:CD1	4:Ap:142:LYS:HA	2.28	0.63
6:B6:126:VAL:HG23	6:B6:127:LEU:CD2	2.29	0.63
7:BB:22:LEU:HB3	7:BB:23:TRP:CZ3	2.34	0.63
7:BG:22:LEU:HB3	7:BG:23:TRP:CE3	2.33	0.63
7:BG:22:LEU:HB3	7:BG:23:TRP:CZ3	2.34	0.63
7:BL:22:LEU:HB3	7:BL:23:TRP:CZ3	2.34	0.63
6:Bc:126:VAL:HG23	6:Bc:127:LEU:CD2	2.29	0.63
7:Bk:22:LEU:HB3	7:Bk:23:TRP:CE3	2.33	0.63
7:Bk:22:LEU:HB3	7:Bk:23:TRP:CZ3	2.34	0.63
6:Bm:102:ILE:CD1	6:Bm:149:ASP:HB3	2.29	0.63
10:C2:157:ASP:CG	9:Cw:138:ARG:HD2	2.23	0.63
9:C6:31:LEU:HD11	10:C7:28:ILE:C	2.23	0.63
10:C7:169:TYR:CZ	10:C7:174:HIS:HA	2.33	0.63
10:C7:180:PRO:HB3	10:C7:186:LEU:O	1.98	0.63
9:CD:67:PHE:CD2	9:CD:82:VAL:HG21	2.34	0.63
10:CO:169:TYR:CZ	10:CO:174:HIS:HA	2.33	0.63
9:CS:138:ARG:HD2	10:CY:157:ASP:CG	2.23	0.63
9:CX:138:ARG:HD2	10:Cd:157:ASP:CG	2.23	0.63
9:Cc:20:LEU:HD22	10:Cd:21:THR:CG2	2.21	0.63
10:Cd:89:CYS:HB2	10:Cd:92:GLY:H	1.64	0.63
8:Cg:183:LEU:O	8:Cg:184:LYS:HB2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ch:67:PHE:CD2	9:Ch:82:VAL:HG21	2.34	0.63
10:Ci:89:CYS:HB2	10:Ci:92:GLY:H	1.63	0.63
9:Cr:42:ASP:N	10:Cs:38:ARG:HH22	1.90	0.63
10:Cs:169:TYR:CZ	10:Cs:174:HIS:HA	2.33	0.63
8:Cv:41:ASP:OD2	10:Cx:43:ARG:NH2	2.31	0.63
10:Cx:82:VAL:HG12	10:Cx:94:ASP:CB	2.21	0.63
2:A1:106:LEU:HD13	2:A1:111:PHE:CE1	2.33	0.63
3:Ae:126:VAL:HG23	3:Ae:127:LEU:CD2	2.28	0.63
6:Bi:102:ILE:CD1	6:Bi:149:ASP:HB3	2.29	0.63
7:BL:22:LEU:HB3	7:BL:23:TRP:CE3	2.33	0.63
6:Bc:23:TRP:NE1	6:Bc:78:LYS:HZ2	1.97	0.63
7:Bp:22:LEU:HB3	7:Bp:23:TRP:CZ3	2.34	0.63
7:Bp:22:LEU:HB3	7:Bp:23:TRP:CE3	2.33	0.63
9:C1:138:ARG:HD2	10:C7:157:ASP:CG	2.23	0.63
9:C6:53:ARG:HH12	10:C7:51:ARG:HG3	1.64	0.63
8:CC:23:TYR:CE2	8:Cg:15:LYS:CE	2.76	0.63
7:CK:48:PRO:C	7:CK:50:VAL:H	2.06	0.63
9:CN:67:PHE:CD2	9:CN:82:VAL:HG21	2.34	0.63
8:CR:14:VAL:CB	10:CT:13:ILE:CG2	2.72	0.63
9:CS:31:LEU:HD11	10:CT:28:ILE:C	2.23	0.63
9:Cc:53:ARG:HH12	10:Cd:51:ARG:HG3	1.64	0.63
10:Cd:169:TYR:CZ	10:Cd:174:HIS:HA	2.33	0.63
7:Co:48:PRO:C	7:Co:50:VAL:H	2.06	0.63
9:Cr:67:PHE:CD2	9:Cr:82:VAL:HG21	2.34	0.63
3:A3:150:LEU:HB2	3:A3:151:PRO:HD3	1.80	0.63
1:AM:134:LEU:CD2	6:BN:6:CYS:HB3	2.27	0.63
4:AQ:122:GLY:HA2	8:CR:170:PHE:HE2	1.64	0.63
2:AS:106:LEU:HD13	2:AS:111:PHE:CE1	2.33	0.63
2:AX:106:LEU:HD13	2:AX:111:PHE:CE1	2.33	0.63
3:AZ:150:LEU:HB2	3:AZ:151:PRO:HD3	1.80	0.63
1:Aq:134:LEU:CD2	6:Br:6:CYS:HB3	2.27	0.63
4:Au:122:GLY:HA2	8:Cv:170:PHE:HE2	1.64	0.63
5:B0:70:SER:O	5:B0:74:LEU:HD23	1.99	0.63
6:B6:23:TRP:NE1	6:B6:78:LYS:HZ2	1.97	0.63
7:BB:22:LEU:HG	7:BB:128:LEU:HD21	1.80	0.63
6:BD:102:ILE:CD1	6:BD:149:ASP:HB3	2.29	0.63
5:BH:70:SER:O	5:BH:74:LEU:HD23	1.99	0.63
5:BR:79:ILE:O	5:BR:83:MET:HG2	1.98	0.63
5:BW:70:SER:O	5:BW:74:LEU:HD23	1.99	0.63
6:Bh:23:TRP:NE1	6:Bh:78:LYS:HZ2	1.97	0.63
5:Bl:70:SER:O	5:Bl:74:LEU:HD23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C1:24:LEU:HD13	10:C2:21:THR:CG2	2.20	0.63
10:C7:82:VAL:HG12	10:C7:94:ASP:CB	2.21	0.63
7:CU:48:PRO:C	7:CU:50:VAL:H	2.06	0.63
8:CW:24:LEU:HB3	10:CY:24:ILE:CD1	2.19	0.63
10:CY:180:PRO:HB3	10:CY:186:LEU:O	1.98	0.63
9:Cc:66:THR:CG2	9:Cc:76:CYS:HB3	2.27	0.63
5:Ck:142:ILE:O	5:Ck:146:ILE:HG13	1.99	0.63
8:Cq:20:HIS:O	8:Cq:23:TYR:HB3	1.99	0.63
9:Cw:20:LEU:HD22	10:Cx:21:THR:CG2	2.21	0.63
9:Cw:31:LEU:HD11	10:Cx:28:ILE:C	2.23	0.63
2:A1:110:PHE:HA	2:A1:113:ILE:HD12	1.81	0.62
3:A3:23:TRP:HE1	3:A3:78:LYS:HZ2	1.46	0.62
1:AR:48:PRO:C	1:AR:50:VAL:H	2.05	0.62
2:AX:110:PHE:HA	2:AX:113:ILE:HD12	1.81	0.62
4:Af:79:LEU:HD12	4:Af:85:LEU:CD2	2.29	0.62
3:Ao:90:LEU:O	3:Ao:94:LEU:HB2	1.99	0.62
1:Av:48:PRO:C	1:Av:50:VAL:H	2.05	0.62
2:Aw:106:LEU:HD13	2:Aw:111:PHE:CE1	2.33	0.62
3:Ay:23:TRP:HE1	3:Ay:78:LYS:HZ2	1.46	0.62
6:B1:126:VAL:HG23	6:B1:127:LEU:CD2	2.29	0.62
7:B4:22:LEU:HB3	7:B4:23:TRP:CZ3	2.34	0.62
7:B4:22:LEU:HB3	7:B4:23:TRP:CE3	2.33	0.62
5:BC:79:ILE:O	5:BC:83:MET:HG2	1.98	0.62
6:BN:126:VAL:HG23	6:BN:127:LEU:CD2	2.29	0.62
7:Ba:22:LEU:HB3	7:Ba:23:TRP:CZ3	2.34	0.62
7:Ba:22:LEU:HB3	7:Ba:23:TRP:CE3	2.33	0.62
6:Bh:102:ILE:CD1	6:Bh:149:ASP:HB3	2.29	0.62
6:Bm:23:TRP:NE1	6:Bm:78:LYS:HZ2	1.97	0.62
6:Br:126:VAL:HG23	6:Br:127:LEU:CD2	2.29	0.62
9:C6:66:THR:CG2	9:C6:76:CYS:HB3	2.27	0.62
5:CB:142:ILE:O	5:CB:146:ILE:HG13	1.99	0.62
5:CG:142:ILE:O	5:CG:146:ILE:HG13	1.99	0.62
7:CK:22:LEU:HG	7:CK:128:LEU:HD21	1.81	0.62
8:CM:20:HIS:O	8:CM:23:TYR:HB3	1.99	0.62
8:CM:23:TYR:H	10:CO:20:ARG:NH2	1.95	0.62
9:CS:20:LEU:HD22	10:CT:21:THR:CG2	2.21	0.62
9:Cc:42:ASP:N	10:Cd:38:ARG:HH22	1.90	0.62
9:Cc:67:PHE:CD2	9:Cc:82:VAL:HG21	2.34	0.62
5:Cf:142:ILE:O	5:Cf:146:ILE:HG13	1.99	0.62
5:Ck:115:LEU:HB2	5:Ck:143:ILE:CD1	2.27	0.62
9:Cm:67:PHE:CD2	9:Cm:82:VAL:HG21	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Co:22:LEU:HB3	7:Co:23:TRP:CE3	2.34	0.62
5:Cp:142:ILE:O	5:Cp:146:ILE:HG13	1.99	0.62
8:Cq:42:VAL:HG23	8:Cq:46:THR:CB	2.26	0.62
10:Cs:89:CYS:HB2	10:Cs:92:GLY:H	1.64	0.62
9:Cw:53:ARG:HH12	10:Cx:51:ARG:HG3	1.64	0.62
9:Cw:67:PHE:CD2	9:Cw:82:VAL:HG21	2.34	0.62
7:Cy:48:PRO:C	7:Cy:50:VAL:H	2.06	0.62
4:AB:79:LEU:HD12	4:AB:85:LEU:CD2	2.29	0.62
1:AH:18:GLN:NE2	1:AH:136:TRP:HE1	1.96	0.62
3:AK:90:LEU:O	3:AK:94:LEU:HB2	1.99	0.62
2:AN:143:ILE:HA	2:AN:146:ILE:HD12	1.80	0.62
3:AU:113:ARG:O	3:AU:117:GLU:HG3	2.00	0.62
4:Az:79:LEU:HD12	4:Az:85:LEU:CD2	2.29	0.62
7:BB:48:PRO:C	7:BB:50:VAL:H	2.08	0.62
6:BD:68:SER:HA	5:CB:83:MET:HE1	1.80	0.62
6:BD:126:VAL:HG23	6:BD:127:LEU:CD2	2.29	0.62
5:BM:79:ILE:O	5:BM:83:MET:HG2	1.98	0.62
7:BQ:8:SER:H	7:BQ:11:ASP:CB	2.10	0.62
6:BS:23:TRP:NE1	6:BS:78:LYS:HZ2	1.97	0.62
6:BX:126:VAL:HG23	6:BX:127:LEU:CD2	2.29	0.62
7:Bf:48:PRO:C	7:Bf:50:VAL:H	2.08	0.62
6:Bh:68:SER:HA	5:Cf:83:MET:HE1	1.80	0.62
6:Bh:126:VAL:HG23	6:Bh:127:LEU:CD2	2.29	0.62
7:Bu:8:SER:H	7:Bu:11:ASP:CB	2.10	0.62
5:Bv:79:ILE:O	5:Bv:83:MET:HG2	1.98	0.62
6:Bw:23:TRP:NE1	6:Bw:78:LYS:HZ2	1.97	0.62
10:C2:180:PRO:HB3	10:C2:186:LEU:O	1.98	0.62
7:C3:18:GLN:NE2	7:C3:136:TRP:HE1	1.97	0.62
5:C4:142:ILE:O	5:C4:146:ILE:HG13	1.99	0.62
9:C6:31:LEU:HD11	10:C7:28:ILE:O	1.98	0.62
9:C6:57:ILE:HD13	10:C7:57:LEU:CG	2.30	0.62
9:C6:67:PHE:CD2	9:C6:82:VAL:HG21	2.34	0.62
8:CC:118:THR:HG23	8:CC:119:SER:H	1.65	0.62
9:CD:13:ARG:CZ	10:CE:14:ILE:HD12	2.19	0.62
8:CH:77:ILE:HD12	8:CH:81:LEU:CD1	2.29	0.62
9:CI:67:PHE:CD2	9:CI:82:VAL:HG21	2.34	0.62
7:CK:22:LEU:HB3	7:CK:23:TRP:CE3	2.34	0.62
5:CL:142:ILE:O	5:CL:146:ILE:HG13	1.99	0.62
8:CM:41:ASP:OD2	10:CO:43:ARG:NH2	2.31	0.62
8:CM:77:ILE:HD12	8:CM:81:LEU:CD1	2.29	0.62
9:CN:57:ILE:HD13	10:CO:57:LEU:CG	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CR:77:ILE:HD12	8:CR:81:LEU:CD1	2.29	0.62
9:CS:53:ARG:HH12	10:CT:51:ARG:HG3	1.64	0.62
9:CS:67:PHE:CD2	9:CS:82:VAL:HG21	2.34	0.62
9:CS:82:VAL:HA	9:CS:88:ASP:CG	2.23	0.62
10:CT:82:VAL:HG12	10:CT:94:ASP:CB	2.21	0.62
5:Ca:142:ILE:O	5:Ca:146:ILE:HG13	1.99	0.62
9:Cc:57:ILE:HD13	10:Cd:57:LEU:CG	2.30	0.62
10:Cd:82:VAL:HG12	10:Cd:94:ASP:CB	2.21	0.62
8:Cg:118:THR:HG23	8:Cg:119:SER:H	1.65	0.62
7:Cj:22:LEU:HB3	7:Cj:23:TRP:CE3	2.35	0.62
8:Cq:23:TYR:H	10:Cs:20:ARG:NH2	1.95	0.62
9:Cr:57:ILE:HD13	10:Cs:57:LEU:CG	2.30	0.62
8:Cv:14:VAL:CB	10:Cx:13:ILE:CG2	2.72	0.62
8:Cv:77:ILE:HD12	8:Cv:81:LEU:CD1	2.29	0.62
9:Cw:57:ILE:CG2	10:Cx:57:LEU:HD12	2.09	0.62
9:Cw:82:VAL:HA	9:Cw:88:ASP:CG	2.23	0.62
1:AC:134:LEU:CD2	6:BD:6:CYS:HB3	2.27	0.62
3:AO:126:VAL:HG23	3:AO:127:LEU:CD2	2.29	0.62
4:AV:79:LEU:HD12	4:AV:85:LEU:CD2	2.29	0.62
3:AZ:126:VAL:HG23	3:AZ:127:LEU:CD2	2.28	0.62
1:Ab:18:GLN:NE2	1:Ab:136:TRP:HE1	1.96	0.62
1:Ag:134:LEU:CD2	6:Bh:6:CYS:HB3	2.27	0.62
1:Al:18:GLN:NE2	1:Al:136:TRP:HE1	1.96	0.62
3:As:126:VAL:HG23	3:As:127:LEU:CD2	2.29	0.62
3:Ay:113:ARG:O	3:Ay:117:GLU:HG3	2.00	0.62
5:BW:79:ILE:O	5:BW:83:MET:HG2	1.98	0.62
6:Bc:102:ILE:CD1	6:Bc:149:ASP:HB3	2.29	0.62
5:Bg:70:SER:O	5:Bg:74:LEU:HD23	1.99	0.62
5:Bg:79:ILE:O	5:Bg:83:MET:HG2	1.98	0.62
7:Bp:8:SER:H	7:Bp:11:ASP:CB	2.10	0.62
5:Bq:79:ILE:O	5:Bq:83:MET:HG2	1.98	0.62
8:C0:24:LEU:HB3	10:C2:24:ILE:CD1	2.19	0.62
8:C0:118:THR:HG23	8:C0:119:SER:H	1.65	0.62
9:C1:31:LEU:HD11	10:C2:28:ILE:C	2.23	0.62
7:CF:22:LEU:HB3	7:CF:23:TRP:CE3	2.35	0.62
5:CG:115:LEU:HB2	5:CG:143:ILE:CD1	2.27	0.62
7:CK:22:LEU:HB3	7:CK:23:TRP:CZ3	2.35	0.62
10:CO:89:CYS:HB2	10:CO:92:GLY:H	1.64	0.62
10:CO:169:TYR:OH	10:CO:174:HIS:HA	2.00	0.62
7:CP:48:PRO:C	7:CP:50:VAL:H	2.06	0.62
8:CW:118:THR:HG23	8:CW:119:SER:H	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CZ:18:GLN:NE2	7:CZ:136:TRP:HE1	1.97	0.62
9:Cc:34:LYS:NZ	10:Cd:32:GLU:HG3	2.14	0.62
8:Cg:14:VAL:HG22	10:Ci:13:ILE:CG2	2.22	0.62
9:Ch:13:ARG:CZ	10:Ci:14:ILE:HD12	2.19	0.62
7:Cj:22:LEU:HG	7:Cj:128:LEU:HD21	1.81	0.62
8:Cl:77:ILE:HD12	8:Cl:81:LEU:CD1	2.29	0.62
9:Cm:66:THR:CG2	9:Cm:76:CYS:HB3	2.27	0.62
7:Co:22:LEU:HB3	7:Co:23:TRP:CZ3	2.35	0.62
7:Co:22:LEU:HG	7:Co:128:LEU:HD21	1.81	0.62
8:Cq:41:ASP:OD2	10:Cs:43:ARG:NH2	2.31	0.62
8:Cq:77:ILE:HD12	8:Cq:81:LEU:CD1	2.29	0.62
9:Cr:31:LEU:HD11	10:Cs:28:ILE:C	2.23	0.62
2:A1:143:ILE:HA	2:A1:146:ILE:HD12	1.80	0.62
1:A5:18:GLN:NE2	1:A5:136:TRP:HE1	1.96	0.62
2:A6:143:ILE:HA	2:A6:146:ILE:HD12	1.80	0.62
3:AA:22:VAL:HG12	3:AA:127:LEU:CD2	2.23	0.62
1:AC:74:ILE:HG23	1:AC:75:LEU:N	2.15	0.62
3:AF:150:LEU:HB2	3:AF:151:PRO:HD3	1.80	0.62
1:AH:134:LEU:CD2	6:BI:6:CYS:HB3	2.27	0.62
2:AN:110:PHE:HA	2:AN:113:ILE:HD12	1.81	0.62
3:AU:23:TRP:HE1	3:AU:78:LYS:HZ2	1.47	0.62
2:AX:143:ILE:HA	2:AX:146:ILE:HD12	1.80	0.62
3:Ae:22:VAL:HG12	3:Ae:127:LEU:CD2	2.23	0.62
1:Ag:22:LEU:HB3	1:Ag:23:TRP:CE3	2.35	0.62
4:Ak:122:GLY:HA2	8:Cl:170:PHE:HE2	1.64	0.62
2:Ar:110:PHE:HA	2:Ar:113:ILE:HD12	1.81	0.62
2:Ar:143:ILE:HA	2:Ar:146:ILE:HD12	1.80	0.62
5:B5:70:SER:O	5:B5:74:LEU:HD23	1.99	0.62
6:B6:102:ILE:CD1	6:B6:149:ASP:HB3	2.29	0.62
7:BB:74:ILE:HG23	7:BB:75:LEU:N	2.14	0.62
5:BC:70:SER:O	5:BC:74:LEU:HD23	1.99	0.62
6:BD:23:TRP:NE1	6:BD:78:LYS:HZ2	1.97	0.62
5:Bb:70:SER:O	5:Bb:74:LEU:HD23	1.99	0.62
7:Bf:74:ILE:HG23	7:Bf:75:LEU:N	2.14	0.62
7:Bu:48:PRO:C	7:Bu:50:VAL:H	2.08	0.62
8:C0:183:LEU:O	8:C0:184:LYS:HB2	1.99	0.62
8:C5:20:HIS:O	8:C5:23:TYR:HB3	1.99	0.62
9:C6:34:LYS:NZ	10:C7:32:GLU:HG3	2.14	0.62
7:CA:38:LEU:HD23	7:CA:38:LEU:C	2.25	0.62
7:CF:22:LEU:HB3	7:CF:23:TRP:CZ3	2.35	0.62
7:CF:22:LEU:HG	7:CF:128:LEU:HD21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:118:THR:HG23	8:CH:119:SER:H	1.65	0.62
7:CK:38:LEU:C	7:CK:38:LEU:HD23	2.25	0.62
8:CM:13:LEU:O	8:CM:13:LEU:HD12	2.00	0.62
8:CM:42:VAL:HG23	8:CM:46:THR:CB	2.26	0.62
9:CN:34:LYS:NZ	10:CO:32:GLU:HG3	2.14	0.62
9:CX:31:LEU:HD11	10:CY:28:ILE:C	2.23	0.62
8:Cb:20:HIS:O	8:Cb:23:TYR:HB3	1.99	0.62
9:Cc:31:LEU:HD11	10:Cd:28:ILE:O	1.98	0.62
7:Ce:38:LEU:C	7:Ce:38:LEU:HD23	2.25	0.62
7:Cj:22:LEU:HB3	7:Cj:23:TRP:CZ3	2.35	0.62
8:Cl:118:THR:HG23	8:Cl:119:SER:H	1.65	0.62
8:Cq:13:LEU:HD12	8:Cq:13:LEU:O	2.00	0.62
9:Cr:53:ARG:CG	10:Cs:54:VAL:HG11	2.20	0.62
10:Cs:169:TYR:OH	10:Cs:174:HIS:HA	2.00	0.62
7:Ct:48:PRO:C	7:Ct:50:VAL:H	2.06	0.62
3:A3:126:VAL:HG23	3:A3:127:LEU:CD2	2.28	0.62
2:A6:110:PHE:HA	2:A6:113:ILE:HD12	1.81	0.62
1:AC:22:LEU:HB3	1:AC:23:TRP:CE3	2.35	0.62
4:AV:122:GLY:HA2	8:CW:170:PHE:HZ	1.61	0.62
2:Ac:110:PHE:HA	2:Ac:113:ILE:HD12	1.81	0.62
2:Ac:143:ILE:HA	2:Ac:146:ILE:HD12	1.80	0.62
3:Aj:150:LEU:HB2	3:Aj:151:PRO:HD3	1.80	0.62
4:Ak:87:GLU:HG2	1:Al:66:LYS:CA	2.28	0.62
1:Al:134:LEU:CD2	6:Bm:6:CYS:HB3	2.27	0.62
4:Az:122:GLY:HA2	8:C0:170:PHE:HZ	1.61	0.62
5:B0:79:ILE:O	5:B0:83:MET:HG2	1.98	0.62
6:B1:102:ILE:CD1	6:B1:149:ASP:HB3	2.29	0.62
6:BI:68:SER:HA	5:CG:83:MET:HE1	1.80	0.62
4:BK:87:GLU:HG2	7:BL:66:LYS:HA	1.81	0.62
7:BL:74:ILE:HG23	7:BL:75:LEU:N	2.14	0.62
6:BN:68:SER:HA	5:CL:83:MET:HE1	1.80	0.62
6:BX:102:ILE:CD1	6:BX:149:ASP:HB3	2.29	0.62
6:Bm:68:SER:HA	5:Ck:83:MET:HE1	1.80	0.62
4:Bo:87:GLU:HG2	7:Bp:66:LYS:HA	1.81	0.62
6:Br:68:SER:HA	5:Cp:83:MET:HE1	1.80	0.62
9:CI:34:LYS:NZ	10:CJ:32:GLU:HG3	2.14	0.62
9:CI:66:THR:CG2	9:CI:76:CYS:HB3	2.27	0.62
9:CN:31:LEU:HD11	10:CO:28:ILE:C	2.23	0.62
7:CP:38:LEU:HD23	7:CP:38:LEU:C	2.25	0.62
8:CW:183:LEU:O	8:CW:184:LYS:HB2	1.99	0.62
8:Cb:13:LEU:HD12	8:Cb:13:LEU:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cm:34:LYS:NZ	10:Cn:32:GLU:HG3	2.14	0.62
7:Co:38:LEU:HD23	7:Co:38:LEU:C	2.25	0.62
9:Cr:34:LYS:NZ	10:Cs:32:GLU:HG3	2.14	0.62
7:Ct:38:LEU:C	7:Ct:38:LEU:HD23	2.25	0.62
8:Cv:20:HIS:O	8:Cv:23:TYR:HB3	1.99	0.62
1:A0:22:LEU:HB3	1:A0:23:TRP:CZ3	2.35	0.62
4:AB:122:GLY:HA2	8:CC:170:PHE:HZ	1.61	0.62
4:AG:87:GLU:HG2	1:AH:66:LYS:CA	2.28	0.62
3:AP:23:TRP:HE1	3:AP:78:LYS:HZ2	1.46	0.62
2:AS:143:ILE:HA	2:AS:146:ILE:HD12	1.80	0.62
2:AX:83:MET:SD	2:AX:93:GLN:HB2	2.40	0.62
3:Aj:22:VAL:HG12	3:Aj:127:LEU:CD2	2.23	0.62
4:Ak:79:LEU:HD12	4:Ak:85:LEU:CD2	2.29	0.62
5:B5:79:ILE:O	5:B5:83:MET:HG2	1.98	0.62
7:BL:8:SER:H	7:BL:11:ASP:CB	2.10	0.62
7:BQ:48:PRO:C	7:BQ:50:VAL:H	2.08	0.62
6:BS:102:ILE:CD1	6:BS:149:ASP:HB3	2.29	0.62
5:Bq:70:SER:O	5:Bq:74:LEU:HD23	1.99	0.62
6:Bw:126:VAL:HG23	6:Bw:127:LEU:CD2	2.29	0.62
8:C5:13:LEU:O	8:C5:13:LEU:HD12	2.00	0.62
9:C6:42:ASP:N	10:C7:38:ARG:HH22	1.90	0.62
8:CC:20:HIS:O	8:CC:23:TYR:HB3	1.99	0.62
10:CE:169:TYR:CZ	10:CE:174:HIS:HA	2.34	0.62
8:CH:42:VAL:HG23	8:CH:46:THR:HG1	1.64	0.62
8:CM:35:TYR:HE1	10:CO:34:LEU:CB	2.04	0.62
9:CS:31:LEU:HD11	10:CT:28:ILE:O	1.98	0.62
5:CV:142:ILE:O	5:CV:146:ILE:HG13	1.99	0.62
9:CX:67:PHE:CD2	9:CX:82:VAL:HG21	2.34	0.62
9:Cc:173:ASN:HB3	9:Cc:176:SER:CB	2.26	0.62
7:Ce:18:GLN:NE2	7:Ce:136:TRP:HE1	1.97	0.62
8:Cl:20:HIS:O	8:Cl:23:TYR:HB3	1.99	0.62
8:Cq:21:ILE:N	10:Cs:20:ARG:NH1	2.39	0.62
3:AF:22:VAL:HG12	3:AF:127:LEU:CD2	2.23	0.62
3:AF:90:LEU:O	3:AF:94:LEU:HB2	1.99	0.62
4:AG:79:LEU:HD12	4:AG:85:LEU:CD2	2.29	0.62
4:AG:122:GLY:HA2	8:CH:170:PHE:HE2	1.64	0.62
4:AG:122:GLY:HA2	8:CH:170:PHE:HZ	1.61	0.62
1:AH:22:LEU:HB3	1:AH:23:TRP:CE3	2.35	0.62
1:AH:74:ILE:HG23	1:AH:75:LEU:N	2.15	0.62
1:AM:48:PRO:C	1:AM:50:VAL:H	2.05	0.62
1:AW:22:LEU:HB3	1:AW:23:TRP:CZ3	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ac:83:MET:HG2	2:Ac:93:GLN:HB3	1.81	0.62
4:Af:87:GLU:HG2	1:Ag:66:LYS:CA	2.28	0.62
1:Al:22:LEU:HB3	1:Al:23:TRP:CE3	2.35	0.62
1:Al:74:ILE:HG23	1:Al:75:LEU:N	2.15	0.62
1:Aq:48:PRO:C	1:Aq:50:VAL:H	2.05	0.62
2:Aw:143:ILE:HA	2:Aw:146:ILE:HD12	1.80	0.62
6:BS:126:VAL:HG23	6:BS:127:LEU:CD2	2.29	0.62
6:BX:90:LEU:O	6:BX:94:LEU:HB2	2.00	0.62
7:Bp:74:ILE:HG23	7:Bp:75:LEU:N	2.14	0.62
6:Bw:102:ILE:CD1	6:Bw:149:ASP:HB3	2.29	0.62
9:C6:46:PHE:HZ	10:C7:47:ALA:HB1	0.80	0.62
7:CA:18:GLN:NE2	7:CA:136:TRP:HE1	1.97	0.62
8:CC:14:VAL:HG22	10:CE:13:ILE:CG2	2.22	0.62
9:CI:57:ILE:HD13	10:CJ:57:LEU:CG	2.30	0.62
8:CM:118:THR:HG23	8:CM:119:SER:H	1.65	0.62
8:CR:20:HIS:O	8:CR:23:TYR:HB3	1.99	0.62
8:CW:20:HIS:O	8:CW:23:TYR:HB3	1.99	0.62
10:CI:169:TYR:CZ	10:CI:174:HIS:HA	2.34	0.62
9:Cr:17:ASN:OD1	10:Cs:17:LEU:CD1	2.30	0.62
8:Cv:23:TYR:H	10:Cx:20:ARG:NH2	1.95	0.62
9:Cw:31:LEU:HD11	10:Cx:28:ILE:O	1.98	0.62
2:A1:83:MET:SD	2:A1:93:GLN:HB2	2.40	0.62
3:A3:113:ARG:O	3:A3:117:GLU:HG3	2.00	0.62
2:A6:83:MET:HG2	2:A6:93:GLN:HB3	1.81	0.62
2:AD:18:LYS:HZ2	2:AD:82:SER:HA	1.63	0.62
1:AH:22:LEU:HB3	1:AH:23:TRP:CZ3	2.35	0.62
4:Af:122:GLY:HA2	8:Cg:170:PHE:HZ	1.61	0.62
1:Ag:22:LEU:HB3	1:Ag:23:TRP:CZ3	2.35	0.62
3:Aj:90:LEU:O	3:Aj:94:LEU:HB2	1.99	0.62
4:Ak:122:GLY:HA2	8:Cl:170:PHE:HZ	1.61	0.62
3:At:23:TRP:HE1	3:At:78:LYS:HZ2	1.46	0.62
5:B0:83:MET:CE	5:B0:89:MET:HB3	2.30	0.62
6:B1:90:LEU:O	6:B1:94:LEU:HB2	2.00	0.62
5:BM:70:SER:O	5:BM:74:LEU:HD23	1.99	0.62
4:BO:6:VAL:HG13	4:BO:7:LEU:N	2.15	0.62
7:BQ:22:LEU:HB3	7:BQ:23:TRP:CZ3	2.34	0.62
5:BR:70:SER:O	5:BR:74:LEU:HD23	1.99	0.62
7:BV:22:LEU:HB3	7:BV:23:TRP:CZ3	2.34	0.62
5:BW:83:MET:CE	5:BW:89:MET:HB3	2.30	0.62
5:Bb:79:ILE:O	5:Bb:83:MET:HG2	1.98	0.62
6:Bm:126:VAL:HG23	6:Bm:127:LEU:CD2	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bs:6:VAL:HG13	4:Bs:7:LEU:N	2.15	0.62
7:Bu:22:LEU:HB3	7:Bu:23:TRP:CZ3	2.34	0.62
7:Bz:22:LEU:HB3	7:Bz:23:TRP:CZ3	2.34	0.62
9:C1:67:PHE:CD2	9:C1:82:VAL:HG21	2.34	0.62
9:C6:82:VAL:O	9:C6:88:ASP:HB2	2.00	0.62
7:CA:22:LEU:HB3	7:CA:23:TRP:CZ3	2.35	0.62
8:CC:13:LEU:O	8:CC:13:LEU:HD12	2.00	0.62
8:CC:77:ILE:HD12	8:CC:81:LEU:CD1	2.29	0.62
7:CF:38:LEU:HD23	7:CF:38:LEU:C	2.25	0.62
8:CH:20:HIS:O	8:CH:23:TYR:HB3	1.99	0.62
9:CS:57:ILE:CG2	10:CT:57:LEU:HD12	2.09	0.62
9:Cc:14:LEU:HD21	10:Cd:14:ILE:CB	2.28	0.62
9:Cc:46:PHE:HZ	10:Cd:47:ALA:HB1	0.80	0.62
9:Cc:82:VAL:O	9:Cc:88:ASP:HB2	2.00	0.62
7:Ce:22:LEU:HB3	7:Ce:23:TRP:CE3	2.34	0.62
8:Cg:20:HIS:O	8:Cg:23:TYR:HB3	1.99	0.62
9:Cm:57:ILE:HD13	10:Cn:57:LEU:CG	2.30	0.62
8:Cq:35:TYR:HE1	10:Cs:34:LEU:CB	2.04	0.62
8:Cq:118:THR:HG23	8:Cq:119:SER:H	1.65	0.62
10:Cs:82:VAL:HG13	10:Cs:88:ASP:OD2	2.00	0.62
5:Cz:142:ILE:O	5:Cz:146:ILE:HG13	1.99	0.62
4:AB:87:GLU:HG2	1:AC:66:LYS:CA	2.28	0.62
1:AC:22:LEU:HB3	1:AC:23:TRP:CZ3	2.35	0.62
4:AG:101:ILE:CD1	4:AG:142:LYS:HA	2.28	0.62
2:AI:110:PHE:HA	2:AI:113:ILE:HD12	1.81	0.62
3:AZ:113:ARG:O	3:AZ:117:GLU:HG3	2.00	0.62
1:Al:22:LEU:HB3	1:Al:23:TRP:CZ3	2.35	0.62
1:Aq:22:LEU:HB3	1:Aq:23:TRP:CZ3	2.35	0.62
2:Ar:83:MET:HG2	2:Ar:93:GLN:HB3	1.81	0.62
4:BF:87:GLU:HG2	7:BG:66:LYS:HA	1.81	0.62
6:BI:126:VAL:HG23	6:BI:127:LEU:CD2	2.29	0.62
4:BY:6:VAL:HG13	4:BY:7:LEU:N	2.15	0.62
4:Bj:87:GLU:HG2	7:Bk:66:LYS:HA	1.81	0.62
6:Br:23:TRP:NE1	6:Br:78:LYS:HZ2	1.97	0.62
8:C0:20:HIS:O	8:C0:23:TYR:HB3	1.99	0.62
9:C6:57:ILE:CD1	10:C7:54:VAL:HA	2.30	0.62
9:C6:173:ASN:HB3	9:C6:176:SER:CB	2.26	0.62
7:CA:22:LEU:HB3	7:CA:23:TRP:CE3	2.34	0.62
9:CD:34:LYS:NZ	10:CE:32:GLU:HG3	2.14	0.62
7:CK:18:GLN:NE2	7:CK:136:TRP:HE1	1.97	0.62
8:CM:21:ILE:N	10:CO:20:ARG:NH1	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:53:ARG:CG	10:CO:54:VAL:HG11	2.20	0.62
10:CO:82:VAL:HG13	10:CO:88:ASP:OD2	2.00	0.62
8:CR:23:TYR:H	10:CT:20:ARG:NH2	1.95	0.62
9:Cc:24:LEU:CD2	10:Cd:24:ILE:HG22	2.27	0.62
9:Cc:57:ILE:CD1	10:Cd:54:VAL:HA	2.30	0.62
7:Ce:22:LEU:HB3	7:Ce:23:TRP:CZ3	2.35	0.62
8:Cg:13:LEU:HD12	8:Cg:13:LEU:O	2.00	0.62
9:Ch:34:LYS:NZ	10:Ci:32:GLU:HG3	2.14	0.62
10:Ci:169:TYR:OH	10:Ci:174:HIS:HA	2.00	0.62
7:Co:18:GLN:NE2	7:Co:136:TRP:HE1	1.97	0.62
9:Cw:46:PHE:HZ	10:Cx:47:ALA:HB1	0.80	0.62
10:Cx:89:CYS:HB2	10:Cx:92:GLY:H	1.63	0.62
2:AD:83:MET:SD	2:AD:93:GLN:HB2	2.40	0.62
3:AF:102:ILE:HG12	3:AF:150:LEU:CA	2.30	0.62
2:AI:83:MET:HG2	2:AI:93:GLN:HB3	1.81	0.62
3:AJ:126:VAL:HG23	3:AJ:127:LEU:CD2	2.29	0.62
1:AM:22:LEU:HB3	1:AM:23:TRP:CZ3	2.35	0.62
2:AN:83:MET:HG2	2:AN:93:GLN:HB3	1.81	0.62
2:Ah:143:ILE:HA	2:Ah:146:ILE:HD12	1.80	0.62
3:Ai:126:VAL:HG23	3:Ai:127:LEU:CD2	2.28	0.62
2:Am:83:MET:SD	2:Am:93:GLN:HB2	2.40	0.62
2:Am:83:MET:HG2	2:Am:93:GLN:HB3	1.81	0.62
2:Am:110:PHE:HA	2:Am:113:ILE:HD12	1.81	0.62
4:B3:87:GLU:HG2	7:B4:66:LYS:HA	1.81	0.62
6:BI:90:LEU:O	6:BI:94:LEU:HB2	2.00	0.62
6:BX:23:TRP:NE1	6:BX:78:LYS:HZ2	1.97	0.62
4:BZ:87:GLU:HG2	7:Ba:66:LYS:HA	1.81	0.62
6:Bm:90:LEU:O	6:Bm:94:LEU:HB2	2.00	0.62
5:Bv:70:SER:O	5:Bv:74:LEU:HD23	1.99	0.62
5:Bv:83:MET:CE	5:Bv:89:MET:HB3	2.30	0.62
9:C1:46:PHE:HZ	10:C2:47:ALA:HB1	0.80	0.62
7:C3:48:PRO:C	7:C3:50:VAL:H	2.06	0.62
8:C5:14:VAL:HG22	10:C7:13:ILE:CG2	2.22	0.62
9:C6:24:LEU:CD2	10:C7:24:ILE:HG22	2.27	0.62
10:CE:169:TYR:OH	10:CE:174:HIS:HA	2.00	0.62
9:CN:17:ASN:OD1	10:CO:17:LEU:CD1	2.30	0.62
9:CS:46:PHE:HZ	10:CT:47:ALA:HB1	0.80	0.62
10:CT:89:CYS:HB2	10:CT:92:GLY:H	1.63	0.62
7:CU:22:LEU:HB3	7:CU:23:TRP:CE3	2.35	0.62
7:CZ:48:PRO:C	7:CZ:50:VAL:H	2.06	0.62
8:Cb:42:VAL:HG23	8:Cb:46:THR:HG1	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:77:ILE:HD12	8:Cg:81:LEU:CD1	2.29	0.62
9:Ch:57:ILE:HD13	10:Ci:57:LEU:CG	2.30	0.62
8:Cq:183:LEU:O	8:Cq:184:LYS:HB2	1.99	0.62
9:Cw:57:ILE:HD13	10:Cx:57:LEU:CG	2.30	0.62
7:Cy:22:LEU:HB3	7:Cy:23:TRP:CE3	2.35	0.62
3:AA:102:ILE:HG12	3:AA:150:LEU:CA	2.30	0.61
2:AD:143:ILE:HA	2:AD:146:ILE:HD12	1.80	0.61
2:AI:83:MET:SD	2:AI:93:GLN:HB2	2.40	0.61
4:AQ:79:LEU:HD12	4:AQ:85:LEU:CD2	2.29	0.61
1:AR:22:LEU:HB3	1:AR:23:TRP:CZ3	2.35	0.61
3:Ae:102:ILE:HG12	3:Ae:150:LEU:CA	2.30	0.61
2:Ah:110:PHE:HA	2:Ah:113:ILE:HD12	1.81	0.61
3:Aj:102:ILE:HG12	3:Aj:150:LEU:CA	2.30	0.61
3:An:126:VAL:HG23	3:An:127:LEU:CD2	2.29	0.61
1:Aq:22:LEU:HB3	1:Aq:23:TRP:CE3	2.35	0.61
3:Ay:150:LEU:HB2	3:Ay:151:PRO:HD3	1.80	0.61
5:BH:83:MET:HE1	5:BH:89:MET:HB3	1.82	0.61
6:BI:23:TRP:NE1	6:BI:78:LYS:HZ2	1.97	0.61
7:BL:48:PRO:C	7:BL:50:VAL:H	2.08	0.61
5:BR:83:MET:CE	5:BR:89:MET:HB3	2.30	0.61
4:BU:100:LYS:HD3	4:BU:100:LYS:C	2.26	0.61
7:BV:48:PRO:C	7:BV:50:VAL:H	2.08	0.61
4:Bd:6:VAL:HG13	4:Bd:7:LEU:N	2.15	0.61
4:By:100:LYS:HD3	4:By:100:LYS:C	2.26	0.61
7:C3:22:LEU:HB3	7:C3:23:TRP:CZ3	2.35	0.61
8:C5:118:THR:HG23	8:C5:119:SER:H	1.65	0.61
9:C6:14:LEU:HD21	10:C7:14:ILE:CB	2.28	0.61
9:CD:53:ARG:HH12	10:CE:51:ARG:HG3	1.64	0.61
9:CD:57:ILE:HD13	10:CE:57:LEU:CG	2.30	0.61
9:CD:66:THR:CG2	9:CD:76:CYS:HB3	2.27	0.61
9:CI:14:LEU:CD1	10:CJ:14:ILE:HA	2.29	0.61
9:CI:46:PHE:HZ	10:CJ:47:ALA:HB1	0.80	0.61
8:CM:183:LEU:O	8:CM:184:LYS:HB2	1.99	0.61
7:CP:22:LEU:HB3	7:CP:23:TRP:CZ3	2.35	0.61
7:CP:22:LEU:HB3	7:CP:23:TRP:CE3	2.34	0.61
9:CS:57:ILE:HD13	10:CT:57:LEU:CG	2.30	0.61
7:CU:18:GLN:NE2	7:CU:136:TRP:HE1	1.97	0.61
9:CX:46:PHE:HZ	10:CY:47:ALA:HB1	0.80	0.61
9:CX:57:ILE:HD13	10:CY:57:LEU:CG	2.30	0.61
7:CZ:22:LEU:HB3	7:CZ:23:TRP:CZ3	2.35	0.61
7:Cj:38:LEU:HD23	7:Cj:38:LEU:C	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ct:22:LEU:HB3	7:Ct:23:TRP:CE3	2.34	0.61
7:Ct:22:LEU:HB3	7:Ct:23:TRP:CZ3	2.35	0.61
1:A5:22:LEU:HB3	1:A5:23:TRP:CZ3	2.35	0.61
3:AE:113:ARG:O	3:AE:117:GLU:HG3	2.00	0.61
3:AE:126:VAL:HG23	3:AE:127:LEU:CD2	2.28	0.61
1:AM:22:LEU:HB3	1:AM:23:TRP:CE3	2.35	0.61
3:AT:90:LEU:O	3:AT:94:LEU:HB2	2.01	0.61
2:Ah:83:MET:SD	2:Ah:93:GLN:HB2	2.40	0.61
3:Ai:113:ARG:O	3:Ai:117:GLU:HG3	2.00	0.61
4:Ak:101:ILE:CD1	4:Ak:142:LYS:HA	2.28	0.61
2:Am:143:ILE:HA	2:Am:146:ILE:HD12	1.80	0.61
1:Av:22:LEU:HB3	1:Av:23:TRP:CZ3	2.35	0.61
3:Ax:90:LEU:O	3:Ax:94:LEU:HB2	2.01	0.61
4:Az:122:GLY:HA2	8:C0:170:PHE:HE2	1.64	0.61
6:B1:89:VAL:CG1	5:Cz:68:ALA:HA	2.30	0.61
4:B7:6:VAL:HG13	4:B7:7:LEU:N	2.15	0.61
5:BC:20:GLN:NE2	5:BC:135:TRP:HE1	1.98	0.61
7:BG:38:LEU:HD23	7:BG:38:LEU:C	2.25	0.61
6:BI:89:VAL:CG1	5:CG:68:ALA:HA	2.30	0.61
6:BN:23:TRP:NE1	6:BN:78:LYS:HZ2	1.97	0.61
6:BN:90:LEU:O	6:BN:94:LEU:HB2	2.00	0.61
7:BQ:38:LEU:HD23	7:BQ:38:LEU:C	2.26	0.61
7:BV:38:LEU:HD23	7:BV:38:LEU:C	2.25	0.61
7:Bk:38:LEU:C	7:Bk:38:LEU:HD23	2.25	0.61
5:Bl:83:MET:HE1	5:Bl:89:MET:HB3	1.82	0.61
6:Br:90:LEU:O	6:Br:94:LEU:HB2	2.00	0.61
7:Bu:22:LEU:HG	7:Bu:128:LEU:HD21	1.80	0.61
7:Bu:38:LEU:HD23	7:Bu:38:LEU:C	2.26	0.61
7:Bz:38:LEU:C	7:Bz:38:LEU:HD23	2.25	0.61
9:C1:57:ILE:HD13	10:C2:57:LEU:CG	2.30	0.61
7:C3:22:LEU:HB3	7:C3:23:TRP:CE3	2.34	0.61
8:C5:42:VAL:HG23	8:C5:46:THR:HG1	1.64	0.61
9:CN:14:LEU:HD21	10:CO:14:ILE:CB	2.28	0.61
9:CN:38:ALA:H	10:CO:35:LEU:CD1	2.13	0.61
9:CN:53:ARG:HH12	10:CO:51:ARG:HG3	1.64	0.61
9:CX:57:ILE:CD1	10:CY:54:VAL:HA	2.30	0.61
7:CZ:22:LEU:HB3	7:CZ:23:TRP:CE3	2.34	0.61
7:CZ:38:LEU:C	7:CZ:38:LEU:HD23	2.25	0.61
8:Cb:118:THR:HG23	8:Cb:119:SER:H	1.65	0.61
9:Ch:53:ARG:HH12	10:Ci:51:ARG:HG3	1.64	0.61
7:Cj:18:GLN:NE2	7:Cj:136:TRP:HE1	1.97	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cm:46:PHE:HZ	10:Cn:47:ALA:HB1	0.80	0.61
9:Cr:38:ALA:H	10:Cs:35:LEU:CD1	2.13	0.61
9:Cr:53:ARG:HH12	10:Cs:51:ARG:HG3	1.64	0.61
9:Cw:34:LYS:NZ	10:Cx:32:GLU:HG3	2.14	0.61
9:Cw:57:ILE:HD11	10:Cx:54:VAL:HA	1.83	0.61
7:Cy:18:GLN:NE2	7:Cy:136:TRP:HE1	1.97	0.61
2:A6:83:MET:SD	2:A6:93:GLN:HB2	2.40	0.61
2:AD:110:PHE:HA	2:AD:113:ILE:HD12	1.81	0.61
3:AU:150:LEU:HB2	3:AU:151:PRO:HD3	1.80	0.61
4:AV:101:ILE:CD1	4:AV:142:LYS:HA	2.28	0.61
4:AV:122:GLY:HA2	8:CW:170:PHE:HE2	1.64	0.61
1:Ab:22:LEU:HB3	1:Ab:23:TRP:CZ3	2.35	0.61
3:Ae:113:ARG:O	3:Ae:117:GLU:HG3	2.00	0.61
3:Aj:113:ARG:O	3:Aj:117:GLU:HG3	2.00	0.61
7:BB:38:LEU:HD23	7:BB:38:LEU:C	2.26	0.61
7:BB:99:ALA:HB3	7:BB:150:ARG:NH1	2.16	0.61
6:BD:89:VAL:CG1	5:CB:68:ALA:HA	2.30	0.61
6:BX:89:VAL:CG1	5:CV:68:ALA:HA	2.30	0.61
7:Ba:99:ALA:HB3	7:Ba:150:ARG:NH1	2.16	0.61
5:Bb:20:GLN:NE2	5:Bb:135:TRP:HE1	1.98	0.61
7:Bf:99:ALA:HB3	7:Bf:150:ARG:NH1	2.16	0.61
5:Bg:20:GLN:NE2	5:Bg:135:TRP:HE1	1.98	0.61
6:Bm:89:VAL:CG1	5:Ck:68:ALA:HA	2.30	0.61
7:Bp:48:PRO:C	7:Bp:50:VAL:H	2.08	0.61
8:C0:42:VAL:HG23	8:C0:46:THR:CB	2.26	0.61
9:C1:57:ILE:CD1	10:C2:54:VAL:HA	2.30	0.61
10:C2:18:ILE:HG23	10:C2:19:GLU:N	2.15	0.61
10:C2:77:ILE:C	10:C2:77:ILE:HD12	2.26	0.61
7:C3:38:LEU:HD23	7:C3:38:LEU:C	2.25	0.61
8:C5:18:ASN:CG	10:C7:16:LYS:NZ	2.59	0.61
8:C5:42:VAL:HG23	8:C5:46:THR:CB	2.26	0.61
10:C7:18:ILE:HG23	10:C7:19:GLU:N	2.15	0.61
9:CD:57:ILE:HD11	10:CE:54:VAL:HA	1.83	0.61
7:CF:18:GLN:NE2	7:CF:136:TRP:HE1	1.97	0.61
8:CH:13:LEU:HD12	8:CH:13:LEU:O	2.00	0.61
9:CI:31:LEU:CD1	10:CJ:28:ILE:CB	2.78	0.61
9:CI:116:THR:HA	9:CI:125:ASP:OD2	2.00	0.61
9:CN:57:ILE:HD11	10:CO:54:VAL:HA	1.82	0.61
9:CS:34:LYS:NZ	10:CT:32:GLU:HG3	2.14	0.61
9:CS:57:ILE:HD11	10:CT:54:VAL:HA	1.83	0.61
10:CY:77:ILE:C	10:CY:77:ILE:HD12	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CY:169:TYR:OH	10:CY:174:HIS:HA	2.00	0.61
8:Cb:18:ASN:CG	10:Cd:16:LYS:NZ	2.59	0.61
9:Cc:57:ILE:HD11	10:Cd:54:VAL:HA	1.82	0.61
10:Cd:18:ILE:HG23	10:Cd:19:GLU:N	2.15	0.61
9:Ch:46:PHE:HZ	10:Ci:47:ALA:HB1	0.80	0.61
9:Ch:57:ILE:HD11	10:Ci:54:VAL:HA	1.83	0.61
9:Ch:66:THR:CG2	9:Ch:76:CYS:HB3	2.27	0.61
8:Cl:13:LEU:O	8:Cl:13:LEU:HD12	2.00	0.61
9:Cm:14:LEU:CD1	10:Cn:14:ILE:HA	2.29	0.61
9:Cm:116:THR:HA	9:Cm:125:ASP:OD2	2.00	0.61
10:Cx:169:TYR:OH	10:Cx:174:HIS:HA	2.00	0.61
3:AA:113:ARG:O	3:AA:117:GLU:HG3	2.00	0.61
3:AF:113:ARG:O	3:AF:117:GLU:HG3	2.00	0.61
2:AI:143:ILE:HA	2:AI:146:ILE:HD12	1.80	0.61
3:AT:113:ARG:O	3:AT:117:GLU:HG3	2.00	0.61
3:AZ:90:LEU:O	3:AZ:94:LEU:HB2	1.99	0.61
1:Ab:22:LEU:HB3	1:Ab:23:TRP:CE3	2.35	0.61
3:Ad:90:LEU:O	3:Ad:94:LEU:HB2	2.01	0.61
6:B1:23:TRP:NE1	6:B1:78:LYS:HZ2	1.97	0.61
7:B4:99:ALA:HB3	7:B4:150:ARG:NH1	2.16	0.61
5:B5:20:GLN:NE2	5:B5:135:TRP:HE1	1.98	0.61
5:B5:83:MET:CE	5:B5:89:MET:HB3	2.30	0.61
4:BP:100:LYS:HD3	4:BP:100:LYS:C	2.26	0.61
7:BQ:22:LEU:HG	7:BQ:128:LEU:HD21	1.80	0.61
6:Bh:89:VAL:CG1	5:Cf:68:ALA:HA	2.30	0.61
6:Br:102:ILE:CD1	6:Br:149:ASP:HB3	2.29	0.61
4:Bt:100:LYS:HD3	4:Bt:100:LYS:C	2.26	0.61
4:Bx:6:VAL:HG13	4:Bx:7:LEU:N	2.15	0.61
10:C2:169:TYR:OH	10:C2:174:HIS:HA	2.00	0.61
8:C5:15:LYS:HZ1	8:CH:23:TYR:HE2	1.47	0.61
9:C6:57:ILE:HD11	10:C7:54:VAL:HA	1.82	0.61
9:CD:46:PHE:HZ	10:CE:47:ALA:HB1	0.80	0.61
10:CE:82:VAL:HG13	10:CE:88:ASP:OD2	2.00	0.61
9:CI:107:ALA:HB1	9:CI:132:ILE:HG21	1.83	0.61
10:CJ:77:ILE:HD12	10:CJ:77:ILE:O	2.01	0.61
9:CN:31:LEU:CD1	10:CO:28:ILE:CB	2.78	0.61
9:CX:34:LYS:NZ	10:CY:32:GLU:HG3	2.14	0.61
9:CX:173:ASN:HB3	9:CX:176:SER:CB	2.26	0.61
10:CY:18:ILE:HG23	10:CY:19:GLU:N	2.15	0.61
9:Ch:82:VAL:O	9:Ch:88:ASP:HB2	2.00	0.61
10:Ci:82:VAL:HG13	10:Ci:88:ASP:OD2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cm:31:LEU:CD1	10:Cn:28:ILE:CB	2.78	0.61
9:Cm:107:ALA:HB1	9:Cm:132:ILE:HG21	1.83	0.61
10:Cn:77:ILE:O	10:Cn:77:ILE:HD12	2.01	0.61
9:Cr:14:LEU:HD21	10:Cs:14:ILE:CB	2.28	0.61
9:Cr:57:ILE:HD11	10:Cs:54:VAL:HA	1.82	0.61
5:Cu:142:ILE:O	5:Cu:146:ILE:HG13	1.99	0.61
9:Cw:38:ALA:H	10:Cx:35:LEU:CD1	2.13	0.61
9:Cw:82:VAL:O	9:Cw:88:ASP:HB2	2.00	0.61
10:Cx:82:VAL:HG13	10:Cx:88:ASP:OD2	2.00	0.61
1:A5:22:LEU:HB3	1:A5:23:TRP:CE3	2.35	0.61
3:A7:90:LEU:O	3:A7:94:LEU:HB2	2.01	0.61
3:AA:90:LEU:O	3:AA:94:LEU:HB2	1.99	0.61
3:AK:23:TRP:HA	3:AK:23:TRP:CE3	2.35	0.61
2:AN:83:MET:SD	2:AN:93:GLN:HB2	2.40	0.61
3:AP:102:ILE:HG12	3:AP:150:LEU:CA	2.30	0.61
3:AY:113:ARG:O	3:AY:117:GLU:HG3	2.01	0.61
3:Ao:23:TRP:HA	3:Ao:23:TRP:CE3	2.35	0.61
3:Ax:113:ARG:O	3:Ax:117:GLU:HG3	2.00	0.61
3:Ay:102:ILE:HG12	3:Ay:150:LEU:CA	2.30	0.61
5:BM:83:MET:CE	5:BM:89:MET:HB3	2.30	0.61
6:BN:102:ILE:CD1	6:BN:149:ASP:HB3	2.29	0.61
4:BP:87:GLU:HG2	7:BQ:66:LYS:HA	1.81	0.61
4:BT:6:VAL:HG13	4:BT:7:LEU:N	2.15	0.61
4:BU:87:GLU:HG2	7:BV:66:LYS:HA	1.81	0.61
5:Bb:83:MET:CE	5:Bb:89:MET:HB3	2.30	0.61
7:Bf:38:LEU:HD23	7:Bf:38:LEU:C	2.26	0.61
5:Bq:83:MET:CE	5:Bq:89:MET:HB3	2.30	0.61
7:Bu:74:ILE:HG23	7:Bu:75:LEU:N	2.14	0.61
4:By:87:GLU:HG2	7:Bz:66:LYS:HA	1.81	0.61
7:Bz:48:PRO:C	7:Bz:50:VAL:H	2.08	0.61
7:Bz:99:ALA:HB3	7:Bz:150:ARG:NH1	2.16	0.61
9:C1:107:ALA:HB1	9:C1:132:ILE:HG21	1.83	0.61
10:C7:77:ILE:C	10:C7:77:ILE:HD12	2.26	0.61
9:CD:107:ALA:HB1	9:CD:132:ILE:HG21	1.82	0.61
9:CD:116:THR:HA	9:CD:125:ASP:OD2	2.00	0.61
9:CI:82:VAL:O	9:CI:88:ASP:HB2	2.00	0.61
10:CJ:82:VAL:HG13	10:CJ:88:ASP:OD2	2.00	0.61
9:CS:38:ALA:H	10:CT:35:LEU:CD1	2.13	0.61
9:CS:82:VAL:O	9:CS:88:ASP:HB2	2.00	0.61
10:CT:82:VAL:HG13	10:CT:88:ASP:OD2	2.00	0.61
10:CT:169:TYR:OH	10:CT:174:HIS:HA	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CX:42:ASP:N	10:CY:38:ARG:HH22	1.90	0.61
9:CX:107:ALA:HB1	9:CX:132:ILE:HG21	1.83	0.61
8:Cb:14:VAL:HG22	10:Cd:13:ILE:CG2	2.22	0.61
9:Ch:107:ALA:HB1	9:Ch:132:ILE:HG21	1.82	0.61
8:Cl:14:VAL:HG22	10:Cn:13:ILE:CG2	2.22	0.61
10:Cn:82:VAL:HG13	10:Cn:88:ASP:OD2	2.00	0.61
9:Cr:31:LEU:CD1	10:Cs:28:ILE:CB	2.78	0.61
9:Cr:34:LYS:C	10:Cs:35:LEU:HD11	2.24	0.61
9:Cr:82:VAL:O	9:Cr:88:ASP:HB2	2.00	0.61
8:Cv:13:LEU:HD12	8:Cv:13:LEU:O	2.00	0.61
7:Cy:22:LEU:HB3	7:Cy:23:TRP:CZ3	2.35	0.61
3:A2:113:ARG:O	3:A2:117:GLU:HG3	2.01	0.61
3:AP:23:TRP:CE3	3:AP:23:TRP:HA	2.35	0.61
3:AP:113:ARG:O	3:AP:117:GLU:HG3	2.00	0.61
3:AU:102:ILE:HG12	3:AU:150:LEU:CA	2.30	0.61
1:AW:22:LEU:HB3	1:AW:23:TRP:CE3	2.35	0.61
2:Ac:83:MET:SD	2:Ac:93:GLN:HB2	2.40	0.61
2:Ar:83:MET:SD	2:Ar:93:GLN:HB2	2.40	0.61
3:At:102:ILE:HG12	3:At:150:LEU:CA	2.30	0.61
2:Aw:83:MET:SD	2:Aw:93:GLN:HB2	2.40	0.61
4:Az:101:ILE:CD1	4:Az:142:LYS:HA	2.28	0.61
4:BA:89:LEU:HD22	4:BA:140:GLY:HA3	1.82	0.61
5:BC:83:MET:HE1	5:BC:89:MET:HB3	1.82	0.61
7:BG:99:ALA:HB3	7:BG:150:ARG:NH1	2.16	0.61
5:BM:83:MET:HE1	5:BM:89:MET:HB3	1.82	0.61
7:BV:99:ALA:HB3	7:BV:150:ARG:NH1	2.16	0.61
6:BX:109:LYS:CD	6:BX:151:PRO:HG2	2.22	0.61
4:Be:89:LEU:HD22	4:Be:140:GLY:HA3	1.82	0.61
7:Bk:99:ALA:HB3	7:Bk:150:ARG:NH1	2.16	0.61
5:Bq:83:MET:HE1	5:Bq:89:MET:HB3	1.82	0.61
4:Bt:87:GLU:HG2	7:Bu:66:LYS:HA	1.81	0.61
8:C0:18:ASN:CG	10:C2:16:LYS:NZ	2.59	0.61
9:C1:34:LYS:NZ	10:C2:32:GLU:HG3	2.14	0.61
10:C7:82:VAL:HG13	10:C7:88:ASP:OD2	2.00	0.61
9:CD:82:VAL:O	9:CD:88:ASP:HB2	2.00	0.61
8:CH:35:TYR:HE1	10:CJ:34:LEU:CB	2.04	0.61
8:CH:54:ILE:C	10:CJ:53:ARG:NH2	2.52	0.61
8:CH:183:LEU:O	8:CH:184:LYS:HB2	1.99	0.61
9:CI:38:ALA:H	10:CJ:35:LEU:CD1	2.13	0.61
9:CN:82:VAL:O	9:CN:88:ASP:HB2	2.00	0.61
5:CQ:142:ILE:O	5:CQ:146:ILE:HG13	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CS:42:ASP:N	10:CT:38:ARG:HH22	1.90	0.61
9:CS:116:THR:HA	9:CS:125:ASP:OD2	2.00	0.61
7:CU:22:LEU:HB3	7:CU:23:TRP:CZ3	2.35	0.61
8:CW:13:LEU:HD12	8:CW:13:LEU:O	2.00	0.61
8:CW:18:ASN:CG	10:CY:16:LYS:NZ	2.59	0.61
8:CW:42:VAL:HG23	8:CW:46:THR:CB	2.26	0.61
5:Ca:110:PHE:HA	5:Ca:113:ILE:HD12	1.83	0.61
10:Cd:77:ILE:HD12	10:Cd:77:ILE:C	2.26	0.61
10:Cd:82:VAL:HG13	10:Cd:88:ASP:OD2	2.00	0.61
9:Ch:116:THR:HA	9:Ch:125:ASP:OD2	2.00	0.61
8:Cl:18:ASN:CB	10:Cn:16:LYS:HZ3	2.13	0.61
8:Cl:54:ILE:C	10:Cn:53:ARG:NH2	2.52	0.61
9:Cm:38:ALA:H	10:Cn:35:LEU:CD1	2.13	0.61
9:Cm:82:VAL:O	9:Cm:88:ASP:HB2	2.00	0.61
1:A0:22:LEU:HB3	1:A0:23:TRP:CE3	2.35	0.61
1:A0:38:LEU:HD23	1:A0:38:LEU:C	2.26	0.61
2:A1:10:LEU:HB3	2:A1:13:GLU:HG3	1.83	0.61
3:A3:90:LEU:O	3:A3:94:LEU:HB2	1.99	0.61
3:AE:90:LEU:O	3:AE:94:LEU:HB2	2.01	0.61
1:AM:38:LEU:HD23	1:AM:38:LEU:C	2.26	0.61
3:AO:90:LEU:O	3:AO:94:LEU:HB2	2.01	0.61
2:AS:83:MET:SD	2:AS:93:GLN:HB2	2.40	0.61
2:AS:83:MET:HG2	2:AS:93:GLN:HB3	1.81	0.61
1:AW:38:LEU:HD23	1:AW:38:LEU:C	2.26	0.61
2:AX:10:LEU:HB3	2:AX:13:GLU:HG3	1.83	0.61
3:Ae:90:LEU:O	3:Ae:94:LEU:HB2	1.99	0.61
4:Af:122:GLY:HA2	8:Cg:170:PHE:HE2	1.64	0.61
3:Ai:90:LEU:O	3:Ai:94:LEU:HB2	2.01	0.61
3:Aj:23:TRP:CE3	3:Aj:23:TRP:HA	2.35	0.61
3:Ao:113:ARG:O	3:Ao:117:GLU:HG3	2.00	0.61
1:Aq:74:ILE:HG23	1:Aq:75:LEU:N	2.15	0.61
3:At:90:LEU:O	3:At:94:LEU:HB2	1.99	0.61
1:Av:38:LEU:HD23	1:Av:38:LEU:C	2.26	0.61
2:Aw:83:MET:HG2	2:Aw:93:GLN:HB3	1.81	0.61
4:B3:100:LYS:HD3	4:B3:100:LYS:C	2.26	0.61
4:BJ:6:VAL:HG13	4:BJ:7:LEU:N	2.15	0.61
4:BK:100:LYS:HD3	4:BK:100:LYS:C	2.26	0.61
7:BL:38:LEU:C	7:BL:38:LEU:HD23	2.26	0.61
7:BQ:74:ILE:HG23	7:BQ:75:LEU:N	2.14	0.61
5:Bg:83:MET:CE	5:Bg:89:MET:HB3	2.30	0.61
5:Bg:83:MET:HE1	5:Bg:89:MET:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bo:100:LYS:HD3	4:Bo:100:LYS:C	2.26	0.61
6:Bw:89:VAL:CG1	5:Cu:68:ALA:HA	2.30	0.61
8:C0:13:LEU:O	8:C0:13:LEU:HD12	2.00	0.61
9:C1:173:ASN:HB3	9:C1:176:SER:CB	2.26	0.61
10:C2:188:LEU:HD12	10:C2:189:VAL:N	2.16	0.61
10:C2:192:PHE:HB3	10:C2:194:GLY:HA2	1.83	0.61
5:C4:110:PHE:HA	5:C4:113:ILE:HD12	1.83	0.61
10:C7:77:ILE:HD12	10:C7:77:ILE:O	2.01	0.61
9:CD:31:LEU:CD1	10:CE:28:ILE:CB	2.78	0.61
10:CJ:169:TYR:OH	10:CJ:174:HIS:HA	2.00	0.61
8:CM:54:ILE:C	10:CO:53:ARG:NH2	2.52	0.61
8:CM:116:THR:HA	8:CM:125:PRO:HB3	1.83	0.61
5:CQ:110:PHE:HA	5:CQ:113:ILE:HD12	1.83	0.61
8:CR:13:LEU:O	8:CR:13:LEU:HD12	2.00	0.61
10:CY:188:LEU:HD12	10:CY:189:VAL:N	2.16	0.61
10:CY:192:PHE:HB3	10:CY:194:GLY:HA2	1.83	0.61
8:Cb:42:VAL:HG23	8:Cb:46:THR:CB	2.26	0.61
9:Ch:57:ILE:CD1	10:Ci:54:VAL:HA	2.30	0.61
10:Ci:77:ILE:HD12	10:Ci:77:ILE:O	2.01	0.61
8:Cl:35:TYR:HE1	10:Cn:34:LEU:CB	2.04	0.61
9:Cm:57:ILE:HD11	10:Cn:54:VAL:HA	1.83	0.61
8:Cq:54:ILE:C	10:Cs:53:ARG:NH2	2.52	0.61
9:Cr:107:ALA:HB1	9:Cr:132:ILE:HG21	1.83	0.61
5:Cu:110:PHE:HA	5:Cu:113:ILE:HD12	1.83	0.61
8:Cv:14:VAL:CG1	10:Cx:13:ILE:CG2	2.64	0.61
9:Cw:116:THR:HA	9:Cw:125:ASP:OD2	2.00	0.61
3:A3:102:ILE:HG12	3:A3:150:LEU:CA	2.30	0.61
2:AD:10:LEU:HB3	2:AD:13:GLU:HG3	1.83	0.61
3:AF:23:TRP:HA	3:AF:23:TRP:CE3	2.35	0.61
1:AM:74:ILE:HG23	1:AM:75:LEU:N	2.15	0.61
3:AP:90:LEU:O	3:AP:94:LEU:HB2	1.99	0.61
1:AR:38:LEU:C	1:AR:38:LEU:HD23	2.26	0.61
2:AS:110:PHE:HA	2:AS:113:ILE:HD12	1.81	0.61
3:AZ:102:ILE:HG12	3:AZ:150:LEU:CA	2.30	0.61
3:Aj:150:LEU:CB	3:Aj:151:PRO:HD3	2.31	0.61
1:Aq:38:LEU:HD23	1:Aq:38:LEU:C	2.26	0.61
3:As:90:LEU:O	3:As:94:LEU:HB2	2.01	0.61
3:At:23:TRP:HA	3:At:23:TRP:CE3	2.35	0.61
3:At:113:ARG:O	3:At:117:GLU:HG3	2.00	0.61
2:Aw:10:LEU:HB3	2:Aw:13:GLU:HG3	1.83	0.61
7:B4:74:ILE:HG23	7:B4:75:LEU:N	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:90:LEU:O	6:B6:94:LEU:HB2	2.00	0.61
5:BC:83:MET:CE	5:BC:89:MET:HB3	2.30	0.61
5:BH:20:GLN:NE2	5:BH:135:TRP:HE1	1.98	0.61
7:BQ:99:ALA:HB3	7:BQ:150:ARG:NH1	2.16	0.61
6:BS:89:VAL:CG1	5:CQ:68:ALA:HA	2.30	0.61
4:BU:89:LEU:HD22	4:BU:140:GLY:HA3	1.82	0.61
4:BU:92:LEU:HD13	4:BU:141:ILE:HG12	1.82	0.61
4:BZ:100:LYS:HD3	4:BZ:100:LYS:C	2.26	0.61
6:Bc:90:LEU:O	6:Bc:94:LEU:HB2	2.00	0.61
4:Bn:6:VAL:HG13	4:Bn:7:LEU:N	2.15	0.61
7:Bp:38:LEU:HD23	7:Bp:38:LEU:C	2.26	0.61
7:Bp:99:ALA:HB3	7:Bp:150:ARG:NH1	2.16	0.61
7:Bu:18:GLN:NE2	7:Bu:136:TRP:HE1	1.99	0.61
7:Bu:99:ALA:HB3	7:Bu:150:ARG:NH1	2.16	0.61
4:By:89:LEU:HD22	4:By:140:GLY:HA3	1.82	0.61
4:By:92:LEU:HD13	4:By:141:ILE:HG12	1.82	0.61
9:C1:57:ILE:HD11	10:C2:54:VAL:HA	1.83	0.61
9:C1:176:SER:HB3	9:C1:178:ARG:HB2	1.83	0.61
10:C2:77:ILE:HD12	10:C2:77:ILE:O	2.01	0.61
8:CC:18:ASN:CG	10:CE:16:LYS:NZ	2.59	0.61
9:CD:57:ILE:CD1	10:CE:54:VAL:HA	2.30	0.61
10:CE:77:ILE:O	10:CE:77:ILE:HD12	2.01	0.61
10:CE:192:PHE:HB3	10:CE:194:GLY:HA2	1.83	0.61
9:CI:57:ILE:HD11	10:CJ:54:VAL:HA	1.83	0.61
9:CI:79:ASP:O	9:CI:82:VAL:HG12	2.01	0.61
9:CN:107:ALA:HB1	9:CN:132:ILE:HG21	1.83	0.61
7:CP:18:GLN:NE2	7:CP:136:TRP:HE1	1.97	0.61
8:CR:118:THR:HG23	8:CR:119:SER:H	1.65	0.61
9:CS:31:LEU:CD1	10:CT:28:ILE:CB	2.78	0.61
7:CU:38:LEU:HD23	7:CU:38:LEU:C	2.25	0.61
9:CX:176:SER:HB3	9:CX:178:ARG:HB2	1.83	0.61
10:Cd:77:ILE:HD12	10:Cd:77:ILE:O	2.01	0.61
10:Cd:169:TYR:OH	10:Cd:174:HIS:HA	2.00	0.61
8:Cg:18:ASN:CG	10:CI:16:LYS:NZ	2.59	0.61
9:Ch:31:LEU:CD1	10:CI:28:ILE:CB	2.78	0.61
8:Cl:183:LEU:O	8:Cl:184:LYS:HB2	1.99	0.61
9:Cm:79:ASP:O	9:Cm:82:VAL:HG12	2.01	0.61
8:Cq:116:THR:HA	8:Cq:125:PRO:HB3	1.83	0.61
7:Ct:18:GLN:NE2	7:Ct:136:TRP:HE1	1.97	0.61
9:Cw:31:LEU:CD1	10:Cx:28:ILE:CB	2.78	0.61
5:Cz:110:PHE:HA	5:Cz:113:ILE:HD12	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A7:113:ARG:O	3:A7:117:GLU:HG3	2.01	0.61
3:AF:150:LEU:CB	3:AF:151:PRO:HD3	2.31	0.61
3:AK:22:VAL:HG12	3:AK:127:LEU:CD2	2.23	0.61
3:AK:113:ARG:O	3:AK:117:GLU:HG3	2.00	0.61
3:AO:113:ARG:O	3:AO:117:GLU:HG3	2.01	0.61
2:AS:10:LEU:HB3	2:AS:13:GLU:HG3	1.83	0.61
3:Ad:113:ARG:O	3:Ad:117:GLU:HG3	2.01	0.61
2:Ah:10:LEU:HB3	2:Ah:13:GLU:HG3	1.83	0.61
2:Ah:83:MET:HG2	2:Ah:93:GLN:HB3	1.81	0.61
4:Ap:79:LEU:HD12	4:Ap:85:LEU:CD2	2.29	0.61
4:Au:79:LEU:HD12	4:Au:85:LEU:CD2	2.29	0.61
4:B2:6:VAL:HG13	4:B2:7:LEU:N	2.15	0.61
7:B4:48:PRO:C	7:B4:50:VAL:H	2.08	0.61
4:BF:89:LEU:HD22	4:BF:140:GLY:HA3	1.82	0.61
7:BL:99:ALA:HB3	7:BL:150:ARG:NH1	2.16	0.61
7:BQ:18:GLN:NE2	7:BQ:136:TRP:HE1	1.99	0.61
5:BW:20:GLN:NE2	5:BW:135:TRP:HE1	1.98	0.61
7:Ba:74:ILE:HG23	7:Ba:75:LEU:N	2.14	0.61
4:Bj:89:LEU:HD22	4:Bj:140:GLY:HA3	1.82	0.61
5:Bl:20:GLN:NE2	5:Bl:135:TRP:HE1	1.98	0.61
7:Bz:74:ILE:HG23	7:Bz:75:LEU:N	2.14	0.61
9:C1:13:ARG:NH1	10:C2:14:ILE:CG1	2.37	0.61
9:C1:38:ALA:H	10:C2:35:LEU:CD1	2.13	0.61
9:C1:79:ASP:O	9:C1:82:VAL:HG12	2.01	0.61
8:CR:116:THR:HA	8:CR:125:PRO:HB3	1.83	0.61
9:CS:34:LYS:C	10:CT:35:LEU:HD11	2.24	0.61
10:CT:188:LEU:HD12	10:CT:189:VAL:N	2.16	0.61
5:CV:110:PHE:HA	5:CV:113:ILE:HD12	1.83	0.61
9:CX:57:ILE:HD11	10:CY:54:VAL:HA	1.83	0.61
10:CY:77:ILE:HD12	10:CY:77:ILE:O	2.01	0.61
10:CY:89:CYS:HB2	10:CY:92:GLY:H	1.63	0.61
10:Cd:192:PHE:HB3	10:Cd:194:GLY:HA2	1.83	0.61
10:Ci:192:PHE:HB3	10:Ci:194:GLY:HA2	1.83	0.61
10:Cn:169:TYR:OH	10:Cn:174:HIS:HA	2.00	0.61
8:Cv:116:THR:HA	8:Cv:125:PRO:HB3	1.83	0.61
8:Cv:135:ALA:HB1	8:Cv:145:VAL:HB	1.82	0.61
9:Cw:34:LYS:C	10:Cx:35:LEU:HD11	2.24	0.61
10:Cx:18:ILE:HG23	10:Cx:19:GLU:N	2.15	0.61
4:A4:122:GLY:HA2	8:C5:170:PHE:HE2	1.64	0.61
4:AB:122:GLY:HA2	8:CC:170:PHE:HE2	1.64	0.61
3:AK:23:TRP:NE1	3:AK:78:LYS:HZ2	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AL:79:LEU:HD12	4:AL:85:LEU:CD2	2.29	0.61
2:Am:10:LEU:HB3	2:Am:13:GLU:HG3	1.83	0.61
3:An:113:ARG:O	3:An:117:GLU:HG3	2.01	0.61
3:Ao:22:VAL:HG12	3:Ao:127:LEU:CD2	2.23	0.61
3:Ao:23:TRP:NE1	3:Ao:78:LYS:HZ2	1.99	0.61
3:As:113:ARG:O	3:As:117:GLU:HG3	2.01	0.61
3:At:150:LEU:CB	3:At:151:PRO:HD3	2.31	0.61
2:Aw:110:PHE:HA	2:Aw:113:ILE:HD12	1.81	0.61
5:B0:20:GLN:NE2	5:B0:135:TRP:HE1	1.98	0.61
6:B1:109:LYS:CD	6:B1:151:PRO:HG2	2.22	0.61
7:B4:18:GLN:NE2	7:B4:136:TRP:HE1	1.99	0.61
7:B4:38:LEU:HD23	7:B4:38:LEU:C	2.26	0.61
6:BD:90:LEU:O	6:BD:94:LEU:HB2	2.00	0.61
5:BH:83:MET:CE	5:BH:89:MET:HB3	2.30	0.61
4:BP:92:LEU:HD13	4:BP:141:ILE:HG12	1.82	0.61
7:BV:74:ILE:HG23	7:BV:75:LEU:N	2.14	0.61
5:BW:49:ILE:O	5:BW:52:PRO:HD2	2.01	0.61
7:Ba:18:GLN:NE2	7:Ba:136:TRP:HE1	1.99	0.61
5:Bl:83:MET:CE	5:Bl:89:MET:HB3	2.30	0.61
4:Bs:142:LYS:HE3	4:Bs:144:HIS:HB2	1.83	0.61
7:Bz:18:GLN:NE2	7:Bz:136:TRP:HE1	1.99	0.61
9:C1:42:ASP:N	10:C2:38:ARG:HH22	1.90	0.61
10:C2:78:SER:CA	10:C2:81:PHE:HB2	2.31	0.61
10:C2:89:CYS:HB2	10:C2:92:GLY:H	1.63	0.61
8:C5:14:VAL:HG11	10:C7:13:ILE:CG2	2.11	0.61
10:C7:139:THR:HG22	10:C7:171:PHE:HE2	1.65	0.61
10:C7:169:TYR:OH	10:C7:174:HIS:HA	2.00	0.61
10:C7:192:PHE:HB3	10:C7:194:GLY:HA2	1.83	0.61
9:CD:38:ALA:H	10:CE:35:LEU:CD1	2.13	0.61
8:CH:14:VAL:HG22	10:CJ:13:ILE:CG2	2.22	0.61
9:CI:57:ILE:CD1	10:CJ:54:VAL:HA	2.30	0.61
10:CJ:77:ILE:HD12	10:CJ:77:ILE:C	2.26	0.61
8:CM:18:ASN:CB	10:CO:16:LYS:HZ3	2.14	0.61
9:CN:176:SER:HB3	9:CN:178:ARG:HB2	1.83	0.61
10:CO:77:ILE:C	10:CO:77:ILE:HD12	2.26	0.61
8:CR:135:ALA:HB1	8:CR:145:VAL:HB	1.82	0.61
10:CT:18:ILE:HG23	10:CT:19:GLU:N	2.15	0.61
10:CT:77:ILE:C	10:CT:77:ILE:HD12	2.26	0.61
9:CX:79:ASP:O	9:CX:82:VAL:HG12	2.01	0.61
10:CY:78:SER:CA	10:CY:81:PHE:HB2	2.31	0.61
10:Cd:63:ASP:N	10:Cd:66:GLU:HB2	2.08	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cd:139:THR:HG22	10:Cd:171:PHE:HE2	1.65	0.61
9:Ch:176:SER:HB3	9:Ch:178:ARG:HB2	1.83	0.61
9:Cm:57:ILE:CD1	10:Cn:54:VAL:HA	2.30	0.61
9:Cm:176:SER:HB3	9:Cm:178:ARG:HB2	1.83	0.61
10:Cn:77:ILE:HD12	10:Cn:77:ILE:C	2.26	0.61
10:Cn:192:PHE:HB3	10:Cn:194:GLY:HA2	1.83	0.61
8:Cq:18:ASN:CB	10:Cs:16:LYS:HZ3	2.14	0.61
9:Cr:176:SER:HB3	9:Cr:178:ARG:HB2	1.83	0.61
10:Cs:77:ILE:HD12	10:Cs:77:ILE:C	2.26	0.61
8:Cv:18:ASN:CB	10:Cx:16:LYS:HZ3	2.14	0.61
8:Cv:118:THR:HG23	8:Cv:119:SER:H	1.65	0.61
9:Cw:17:ASN:OD1	10:Cx:17:LEU:CD1	2.30	0.61
10:Cx:188:LEU:HD12	10:Cx:189:VAL:N	2.16	0.61
10:Cx:192:PHE:HB3	10:Cx:194:GLY:HA2	1.83	0.61
7:Cy:38:LEU:HD23	7:Cy:38:LEU:C	2.25	0.61
2:AD:83:MET:HG2	2:AD:93:GLN:HB3	1.81	0.60
1:AH:38:LEU:HD23	1:AH:38:LEU:C	2.26	0.60
1:AH:48:PRO:C	1:AH:50:VAL:N	2.58	0.60
2:AI:8:GLU:HG3	2:AI:141:GLN:OE1	2.02	0.60
2:AI:10:LEU:HB3	2:AI:13:GLU:HG3	1.83	0.60
3:AJ:113:ARG:O	3:AJ:117:GLU:HG3	2.01	0.60
2:AN:8:GLU:HG3	2:AN:141:GLN:OE1	2.01	0.60
2:AN:10:LEU:HB3	2:AN:13:GLU:HG3	1.83	0.60
3:AP:150:LEU:CB	3:AP:151:PRO:HD3	2.31	0.60
3:AU:90:LEU:O	3:AU:94:LEU:HB2	1.99	0.60
1:Al:38:LEU:HD23	1:Al:38:LEU:C	2.26	0.60
1:Al:48:PRO:C	1:Al:50:VAL:N	2.58	0.60
2:Am:8:GLU:HG3	2:Am:141:GLN:OE1	2.02	0.60
3:Ao:150:LEU:CB	3:Ao:151:PRO:HD3	2.31	0.60
2:Ar:10:LEU:HB3	2:Ar:13:GLU:HG3	1.83	0.60
1:Av:22:LEU:HB3	1:Av:23:TRP:CE3	2.35	0.60
1:Av:74:ILE:HG23	1:Av:75:LEU:N	2.15	0.60
3:Ay:90:LEU:O	3:Ay:94:LEU:HB2	1.99	0.60
3:Ay:150:LEU:CB	3:Ay:151:PRO:HD3	2.31	0.60
5:B0:49:ILE:O	5:B0:52:PRO:HD2	2.01	0.60
5:B5:49:ILE:O	5:B5:52:PRO:HD2	2.01	0.60
6:BD:113:ARG:O	6:BD:117:GLU:HG3	2.01	0.60
4:BF:100:LYS:C	4:BF:100:LYS:HD3	2.26	0.60
6:BN:89:VAL:CG1	5:CL:68:ALA:HA	2.30	0.60
6:BN:113:ARG:O	6:BN:117:GLU:HG3	2.01	0.60
4:BO:142:LYS:HE3	4:BO:144:HIS:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BV:18:GLN:NE2	7:BV:136:TRP:HE1	1.99	0.60
7:Ba:38:LEU:HD23	7:Ba:38:LEU:C	2.26	0.60
6:Bh:113:ARG:O	6:Bh:117:GLU:HG3	2.01	0.60
4:Bi:6:VAL:HG13	4:Bi:7:LEU:N	2.15	0.60
6:Br:113:ARG:O	6:Br:117:GLU:HG3	2.01	0.60
4:Bt:92:LEU:HD13	4:Bt:141:ILE:HG12	1.82	0.60
9:C1:24:LEU:CD2	10:C2:24:ILE:HG22	2.27	0.60
9:C6:117:TRP:HB3	9:C6:119:GLY:H	1.66	0.60
9:CD:176:SER:HB3	9:CD:178:ARG:HB2	1.83	0.60
9:CI:176:SER:HB3	9:CI:178:ARG:HB2	1.83	0.60
10:CJ:192:PHE:HB3	10:CJ:194:GLY:HA2	1.83	0.60
9:CN:34:LYS:C	10:CO:35:LEU:CD1	2.70	0.60
10:CO:77:ILE:HD12	10:CO:77:ILE:O	2.01	0.60
8:CR:18:ASN:CB	10:CT:16:LYS:HZ3	2.14	0.60
8:CR:183:LEU:O	8:CR:184:LYS:HB2	1.99	0.60
9:CS:107:ALA:HB1	9:CS:132:ILE:HG21	1.82	0.60
10:CT:192:PHE:HB3	10:CT:194:GLY:HA2	1.83	0.60
9:CX:38:ALA:H	10:CY:35:LEU:CD1	2.13	0.60
10:CY:82:VAL:HG13	10:CY:88:ASP:OD2	2.00	0.60
8:Cb:15:LYS:HZ1	8:Cl:23:TYR:HE2	1.47	0.60
9:Cc:117:TRP:HB3	9:Cc:119:GLY:H	1.66	0.60
9:Cr:34:LYS:C	10:Cs:35:LEU:CD1	2.70	0.60
9:Cw:42:ASP:N	10:Cx:38:ARG:HH22	1.90	0.60
10:Cx:77:ILE:C	10:Cx:77:ILE:HD12	2.26	0.60
1:A0:74:ILE:HG23	1:A0:75:LEU:N	2.15	0.60
3:A3:18:ILE:HG21	3:A3:130:PHE:CD1	2.36	0.60
3:AK:150:LEU:CB	3:AK:151:PRO:HD3	2.31	0.60
1:AR:22:LEU:HB3	1:AR:23:TRP:CE3	2.35	0.60
1:AR:74:ILE:HG23	1:AR:75:LEU:N	2.15	0.60
3:AU:150:LEU:CB	3:AU:151:PRO:HD3	2.31	0.60
3:AZ:18:ILE:HG21	3:AZ:130:PHE:CD1	2.36	0.60
4:Aa:122:GLY:HA2	8:Cb:170:PHE:HE2	1.64	0.60
2:Ar:8:GLU:HG3	2:Ar:141:GLN:OE1	2.01	0.60
4:BA:87:GLU:HG2	7:BB:66:LYS:HA	1.81	0.60
4:BE:6:VAL:HG13	4:BE:7:LEU:N	2.15	0.60
4:BF:92:LEU:HD13	4:BF:141:ILE:HG12	1.82	0.60
5:BH:49:ILE:O	5:BH:52:PRO:HD2	2.01	0.60
4:BK:120:GLN:HA	9:CN:65:ARG:NH2	2.17	0.60
5:Bb:49:ILE:O	5:Bb:52:PRO:HD2	2.01	0.60
6:Bc:89:VAL:CG1	5:Ca:68:ALA:HA	2.30	0.60
6:Bh:90:LEU:O	6:Bh:94:LEU:HB2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bl:49:ILE:O	5:Bl:52:PRO:HD2	2.01	0.60
4:Bo:120:GLN:HA	9:Cr:65:ARG:NH2	2.17	0.60
10:C2:82:VAL:HG13	10:C2:88:ASP:OD2	2.00	0.60
9:CD:79:ASP:O	9:CD:82:VAL:HG12	2.01	0.60
10:CE:78:SER:CA	10:CE:81:PHE:HB2	2.31	0.60
9:CI:53:ARG:HH12	10:CJ:51:ARG:HG3	1.64	0.60
9:CN:46:PHE:HZ	10:CO:47:ALA:HB1	0.80	0.60
9:CN:116:THR:HA	9:CN:125:ASP:OD2	2.00	0.60
9:CS:17:ASN:OD1	10:CT:17:LEU:CD1	2.30	0.60
9:CS:176:SER:HB3	9:CS:178:ARG:HB2	1.83	0.60
8:Cb:135:ALA:HB1	8:Cb:145:VAL:HB	1.82	0.60
9:Ch:38:ALA:H	10:Ci:35:LEU:CD1	2.13	0.60
9:Ch:57:ILE:CG2	10:Ci:57:LEU:HD12	2.09	0.60
10:Cn:82:VAL:HG12	10:Cn:94:ASP:CB	2.21	0.60
9:Cr:57:ILE:CD1	10:Cs:54:VAL:HA	2.30	0.60
9:Cr:79:ASP:O	9:Cr:82:VAL:HG12	2.01	0.60
9:Cr:116:THR:HA	9:Cr:125:ASP:OD2	2.00	0.60
10:Cs:77:ILE:HD12	10:Cs:77:ILE:O	2.01	0.60
8:Cv:183:LEU:O	8:Cv:184:LYS:HB2	1.99	0.60
9:Cw:57:ILE:CD1	10:Cx:54:VAL:HA	2.30	0.60
9:Cw:107:ALA:HB1	9:Cw:132:ILE:HG21	1.82	0.60
2:A1:83:MET:HG2	2:A1:93:GLN:HB3	1.81	0.60
3:AK:23:TRP:HE1	3:AK:78:LYS:HZ2	1.47	0.60
1:AW:74:ILE:HG23	1:AW:75:LEU:N	2.15	0.60
3:AY:90:LEU:O	3:AY:94:LEU:HB2	2.01	0.60
3:Ae:23:TRP:HA	3:Ae:23:TRP:CE3	2.35	0.60
4:Au:87:GLU:CG	1:Av:66:LYS:HA	2.32	0.60
5:BM:20:GLN:NE2	5:BM:135:TRP:HE1	1.98	0.60
5:BM:49:ILE:O	5:BM:52:PRO:HD2	2.01	0.60
5:BR:20:GLN:NE2	5:BR:135:TRP:HE1	1.98	0.60
4:Bd:101:ILE:HG22	4:Bd:102:PRO:HD2	1.83	0.60
4:Be:87:GLU:HG2	7:Bf:66:LYS:HA	1.81	0.60
4:Bj:92:LEU:HD13	4:Bj:141:ILE:HG12	1.82	0.60
4:Bj:100:LYS:HD3	4:Bj:100:LYS:C	2.26	0.60
7:Bk:48:PRO:C	7:Bk:50:VAL:H	2.08	0.60
5:Bq:49:ILE:O	5:Bq:52:PRO:HD2	2.01	0.60
6:Br:89:VAL:CG1	5:Cp:68:ALA:HA	2.30	0.60
5:Bv:83:MET:HE1	5:Bv:89:MET:HB3	1.82	0.60
6:Bw:90:LEU:O	6:Bw:94:LEU:HB2	2.00	0.60
9:C1:117:TRP:HB3	9:C1:119:GLY:H	1.66	0.60
8:C5:135:ALA:HB1	8:C5:145:VAL:HB	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C6:38:ALA:H	10:C7:35:LEU:CD1	2.13	0.60
9:C6:176:SER:HB3	9:C6:178:ARG:HB2	1.83	0.60
9:CI:20:LEU:HD22	10:CJ:21:THR:CG2	2.21	0.60
9:CI:43:PRO:HD3	10:CJ:38:ARG:CG	2.31	0.60
9:CI:157:ARG:HG3	9:CI:158:HIS:H	1.66	0.60
9:CI:181:LEU:HB2	9:CI:193:VAL:CG1	2.31	0.60
10:CJ:82:VAL:HG12	10:CJ:94:ASP:CB	2.21	0.60
9:CN:57:ILE:CD1	10:CO:54:VAL:HA	2.30	0.60
9:CN:79:ASP:O	9:CN:82:VAL:HG12	2.01	0.60
10:CO:192:PHE:HB3	10:CO:194:GLY:HA2	1.83	0.60
9:CS:57:ILE:CD1	10:CT:54:VAL:HA	2.30	0.60
9:CS:79:ASP:O	9:CS:82:VAL:HG12	2.01	0.60
9:CX:24:LEU:CD2	10:CY:24:ILE:HG22	2.27	0.60
8:Cb:116:THR:HA	8:Cb:125:PRO:HB3	1.83	0.60
9:Cc:38:ALA:H	10:Cd:35:LEU:CD1	2.13	0.60
9:Cc:176:SER:HB3	9:Cc:178:ARG:HB2	1.83	0.60
8:Cg:21:ILE:N	10:CI:20:ARG:NH1	2.39	0.60
9:Ch:79:ASP:O	9:Ch:82:VAL:HG12	2.01	0.60
10:CI:78:SER:CA	10:CI:81:PHE:HB2	2.31	0.60
9:Cm:20:LEU:HD22	10:Cn:21:THR:CG2	2.21	0.60
9:Cm:43:PRO:HD3	10:Cn:38:ARG:CG	2.31	0.60
10:Cn:18:ILE:HG23	10:Cn:19:GLU:N	2.15	0.60
9:Cr:41:ILE:C	10:Cs:38:ARG:CZ	2.50	0.60
9:Cr:46:PHE:HZ	10:Cs:47:ALA:HB1	0.80	0.60
10:Cs:192:PHE:HB3	10:Cs:194:GLY:HA2	1.83	0.60
9:Cw:176:SER:HB3	9:Cw:178:ARG:HB2	1.83	0.60
1:A0:66:LYS:HA	4:Az:87:GLU:CG	2.32	0.60
3:A3:150:LEU:CB	3:A3:151:PRO:HD3	2.31	0.60
4:A4:87:GLU:CG	1:A5:66:LYS:HA	2.32	0.60
1:A5:38:LEU:C	1:A5:38:LEU:HD23	2.26	0.60
4:AL:87:GLU:CG	1:AM:66:LYS:HA	2.32	0.60
4:AQ:87:GLU:CG	1:AR:66:LYS:HA	2.32	0.60
3:AU:23:TRP:HA	3:AU:23:TRP:CE3	2.35	0.60
4:AV:87:GLU:CG	1:AW:66:LYS:HA	2.32	0.60
3:AZ:150:LEU:CB	3:AZ:151:PRO:HD3	2.31	0.60
4:Ap:87:GLU:CG	1:Aq:66:LYS:HA	2.32	0.60
6:B1:113:ARG:O	6:B1:117:GLU:HG3	2.01	0.60
4:B3:120:GLN:HA	9:C6:65:ARG:NH2	2.17	0.60
6:B6:89:VAL:CG1	5:C4:68:ALA:HA	2.30	0.60
4:B7:101:ILE:HG22	4:B7:102:PRO:HD2	1.83	0.60
4:BJ:142:LYS:HE3	4:BJ:144:HIS:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BK:92:LEU:HD13	4:BK:141:ILE:HG12	1.82	0.60
5:BM:107:LYS:HB2	5:BM:110:PHE:CD2	2.37	0.60
5:BR:83:MET:HE1	5:BR:89:MET:HB3	1.82	0.60
6:BS:90:LEU:O	6:BS:94:LEU:HB2	2.00	0.60
6:BX:113:ARG:O	6:BX:117:GLU:HG3	2.01	0.60
7:Ba:48:PRO:C	7:Ba:50:VAL:H	2.08	0.60
4:Be:100:LYS:HD3	4:Be:100:LYS:C	2.26	0.60
4:Bo:92:LEU:HD13	4:Bo:141:ILE:HG12	1.82	0.60
5:Bq:107:LYS:HB2	5:Bq:110:PHE:CD2	2.37	0.60
5:Bv:20:GLN:NE2	5:Bv:135:TRP:HE1	1.98	0.60
9:C1:82:VAL:O	9:C1:88:ASP:HB2	2.00	0.60
8:C5:116:THR:HA	8:C5:125:PRO:HB3	1.83	0.60
9:C6:181:LEU:HB2	9:C6:193:VAL:CG1	2.31	0.60
10:CE:77:ILE:HD12	10:CE:77:ILE:C	2.26	0.60
7:CF:74:ILE:HG23	7:CF:75:LEU:N	2.13	0.60
10:CJ:18:ILE:HG23	10:CJ:19:GLU:N	2.15	0.60
10:CJ:87:ASN:HA	10:CJ:94:ASP:OD2	2.02	0.60
9:CN:20:LEU:HD22	10:CO:21:THR:CG2	2.21	0.60
10:CO:87:ASN:HA	10:CO:94:ASP:OD2	2.02	0.60
10:CT:78:SER:CA	10:CT:81:PHE:HB2	2.31	0.60
10:CT:197:PHE:CB	10:CT:199:ARG:HB3	2.31	0.60
9:CX:82:VAL:O	9:CX:88:ASP:HB2	2.00	0.60
9:CX:117:TRP:HB3	9:CX:119:GLY:H	1.66	0.60
8:Cg:116:THR:HA	8:Cg:125:PRO:HB3	1.83	0.60
9:Ch:117:TRP:HB3	9:Ch:119:GLY:H	1.66	0.60
9:Cm:53:ARG:HH12	10:Cn:51:ARG:HG3	1.64	0.60
9:Cm:157:ARG:HG3	9:Cm:158:HIS:H	1.66	0.60
9:Cm:181:LEU:HB2	9:Cm:193:VAL:CG1	2.31	0.60
10:Cn:87:ASN:HA	10:Cn:94:ASP:OD2	2.02	0.60
5:Cp:110:PHE:HA	5:Cp:113:ILE:HD12	1.83	0.60
9:Cr:20:LEU:HD22	10:Cs:21:THR:CG2	2.21	0.60
3:A2:90:LEU:O	3:A2:94:LEU:HB2	2.01	0.60
2:A6:10:LEU:HB3	2:A6:13:GLU:HG3	1.83	0.60
4:AL:79:LEU:HD12	4:AL:85:LEU:HD13	1.84	0.60
3:AP:18:ILE:HG21	3:AP:130:PHE:CD1	2.36	0.60
2:AX:83:MET:HG2	2:AX:93:GLN:HB3	1.81	0.60
4:Aa:87:GLU:CG	1:Ab:66:LYS:HA	2.32	0.60
1:Ab:38:LEU:HD23	1:Ab:38:LEU:C	2.26	0.60
3:An:90:LEU:O	3:An:94:LEU:HB2	2.01	0.60
3:Ao:23:TRP:HE1	3:Ao:78:LYS:HZ2	1.47	0.60
4:Ap:79:LEU:HD12	4:Ap:85:LEU:HD13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:At:18:ILE:HG21	3:At:130:PHE:CD1	2.36	0.60
4:BA:92:LEU:HD13	4:BA:141:ILE:HG12	1.82	0.60
4:BJ:1:LYS:HD2	4:BJ:131:ASP:OD1	2.01	0.60
4:BP:89:LEU:HD22	4:BP:140:GLY:HA3	1.82	0.60
4:BZ:120:GLN:HA	9:Cc:65:ARG:NH2	2.17	0.60
4:Be:92:LEU:HD13	4:Be:141:ILE:HG12	1.82	0.60
4:Bn:142:LYS:HE3	4:Bn:144:HIS:HB2	1.83	0.60
5:Bq:20:GLN:NE2	5:Bq:135:TRP:HE1	1.98	0.60
9:C1:14:LEU:CD1	10:C2:14:ILE:HA	2.29	0.60
5:CB:110:PHE:HA	5:CB:113:ILE:HD12	1.83	0.60
8:CC:116:THR:HA	8:CC:125:PRO:HB3	1.83	0.60
9:CD:117:TRP:HB3	9:CD:119:GLY:H	1.66	0.60
9:CD:157:ARG:HG3	9:CD:158:HIS:H	1.66	0.60
5:CL:110:PHE:HA	5:CL:113:ILE:HD12	1.83	0.60
9:CX:13:ARG:NH1	10:CY:14:ILE:CG1	2.37	0.60
9:CX:14:LEU:CD1	10:CY:14:ILE:HA	2.29	0.60
9:Cc:181:LEU:HB2	9:Cc:193:VAL:CG1	2.31	0.60
9:Ch:157:ARG:HG3	9:Ch:158:HIS:H	1.66	0.60
10:Ci:77:ILE:HD12	10:Ci:77:ILE:C	2.26	0.60
7:Cj:74:ILE:HG23	7:Cj:75:LEU:N	2.13	0.60
8:Cl:135:ALA:HB1	8:Cl:145:VAL:HB	1.82	0.60
9:Cr:43:PRO:HD3	10:Cs:38:ARG:CG	2.32	0.60
10:Cs:87:ASN:HA	10:Cs:94:ASP:OD2	2.02	0.60
9:Cw:79:ASP:O	9:Cw:82:VAL:HG12	2.01	0.60
10:Cx:78:SER:CA	10:Cx:81:PHE:HB2	2.31	0.60
3:AA:18:ILE:HG21	3:AA:130:PHE:CD1	2.36	0.60
3:AA:23:TRP:CE3	3:AA:23:TRP:HA	2.35	0.60
1:AC:38:LEU:C	1:AC:38:LEU:HD23	2.26	0.60
3:AJ:90:LEU:O	3:AJ:94:LEU:HB2	2.01	0.60
3:AZ:23:TRP:HA	3:AZ:23:TRP:CE3	2.35	0.60
3:AZ:23:TRP:NE1	3:AZ:78:LYS:HZ2	2.00	0.60
2:Ac:10:LEU:HB3	2:Ac:13:GLU:HG3	1.83	0.60
1:Ag:38:LEU:HD23	1:Ag:38:LEU:C	2.26	0.60
1:Ag:48:PRO:C	1:Ag:50:VAL:N	2.58	0.60
3:Ay:23:TRP:CE3	3:Ay:23:TRP:HA	2.35	0.60
4:BA:100:LYS:HD3	4:BA:100:LYS:C	2.26	0.60
4:BF:120:GLN:HA	9:CI:65:ARG:NH2	2.17	0.60
4:BT:101:ILE:HG22	4:BT:102:PRO:HD2	1.83	0.60
5:Bb:83:MET:HE1	5:Bb:89:MET:HB3	1.82	0.60
7:Bf:18:GLN:NE2	7:Bf:136:TRP:HE1	1.99	0.60
4:Bn:1:LYS:HD2	4:Bn:131:ASP:OD1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Br:71:VAL:HG21	5:Cp:89:MET:HE1	1.83	0.60
4:Bx:101:ILE:HG22	4:Bx:102:PRO:HD2	1.83	0.60
9:C1:31:LEU:CD1	10:C2:28:ILE:CB	2.78	0.60
9:C1:181:LEU:HB2	9:C1:193:VAL:CG1	2.31	0.60
9:C6:116:THR:HA	9:C6:125:ASP:OD2	2.00	0.60
10:CE:87:ASN:HA	10:CE:94:ASP:OD2	2.02	0.60
8:CH:135:ALA:HB1	8:CH:145:VAL:HB	1.82	0.60
10:CJ:78:SER:CA	10:CJ:81:PHE:HB2	2.31	0.60
9:CN:43:PRO:HD3	10:CO:38:ARG:CG	2.32	0.60
10:CO:18:ILE:HG23	10:CO:19:GLU:N	2.15	0.60
9:CS:38:ALA:N	10:CT:35:LEU:CD1	2.65	0.60
10:CT:87:ASN:HA	10:CT:94:ASP:OD2	2.02	0.60
9:CX:31:LEU:CD1	10:CY:28:ILE:CB	2.78	0.60
8:Cb:14:VAL:HG11	10:Cd:13:ILE:CG2	2.11	0.60
5:Cf:110:PHE:HA	5:Cf:113:ILE:HD12	1.83	0.60
10:Cn:78:SER:CA	10:Cn:81:PHE:HB2	2.31	0.60
10:Cs:18:ILE:HG23	10:Cs:19:GLU:N	2.15	0.60
9:Cw:38:ALA:N	10:Cx:35:LEU:CD1	2.65	0.60
10:Cx:197:PHE:CB	10:Cx:199:ARG:HB3	2.31	0.60
3:A3:23:TRP:NE1	3:A3:78:LYS:HZ2	1.99	0.60
3:AZ:22:VAL:HG12	3:AZ:127:LEU:CD2	2.23	0.60
3:Ae:18:ILE:HG21	3:Ae:130:PHE:CD1	2.36	0.60
3:At:23:TRP:NE1	3:At:78:LYS:HZ2	2.00	0.60
5:B5:83:MET:HE1	5:B5:89:MET:HB3	1.82	0.60
7:BB:18:GLN:NE2	7:BB:136:TRP:HE1	1.99	0.60
7:BG:48:PRO:C	7:BG:50:VAL:H	2.08	0.60
6:BI:113:ARG:O	6:BI:117:GLU:HG3	2.01	0.60
6:BN:71:VAL:HG21	5:CL:89:MET:CE	2.32	0.60
6:BN:71:VAL:HG21	5:CL:89:MET:HE1	1.83	0.60
6:BS:71:VAL:HG21	5:CQ:89:MET:HE1	1.83	0.60
6:BS:113:ARG:O	6:BS:117:GLU:HG3	2.01	0.60
6:Bc:113:ARG:O	6:Bc:117:GLU:HG3	2.01	0.60
4:Bj:120:GLN:HA	9:Cm:65:ARG:NH2	2.17	0.60
7:Bk:18:GLN:NE2	7:Bk:136:TRP:HE1	1.99	0.60
6:Br:71:VAL:HG21	5:Cp:89:MET:CE	2.32	0.60
4:Bs:1:LYS:HD2	4:Bs:131:ASP:OD1	2.01	0.60
4:Bt:89:LEU:HD22	4:Bt:140:GLY:HA3	1.82	0.60
6:Bw:71:VAL:HG21	5:Cu:89:MET:HE1	1.83	0.60
6:Bw:113:ARG:O	6:Bw:117:GLU:HG3	2.01	0.60
8:C0:135:ALA:HB1	8:C0:145:VAL:HB	1.82	0.60
10:C7:188:LEU:HD12	10:C7:189:VAL:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:21:ILE:N	10:CE:20:ARG:NH1	2.39	0.60
9:CI:34:LYS:C	10:CJ:35:LEU:HD11	2.24	0.60
10:CT:139:THR:HG22	10:CT:171:PHE:HE2	1.65	0.60
9:CX:181:LEU:HB2	9:CX:193:VAL:CG1	2.31	0.60
9:Cc:107:ALA:HB1	9:Cc:132:ILE:HG21	1.83	0.60
10:Ci:87:ASN:HA	10:Ci:94:ASP:OD2	2.02	0.60
10:Cn:188:LEU:HD12	10:Cn:189:VAL:N	2.16	0.60
10:Cs:188:LEU:HD12	10:Cs:189:VAL:N	2.16	0.60
8:Cv:18:ASN:CG	10:Cx:16:LYS:NZ	2.59	0.60
3:A3:22:VAL:HG12	3:A3:127:LEU:CD2	2.23	0.60
3:A3:23:TRP:CE3	3:A3:23:TRP:HA	2.35	0.60
1:A5:74:ILE:HG23	1:A5:75:LEU:N	2.15	0.60
1:AC:48:PRO:C	1:AC:50:VAL:N	2.58	0.60
2:AD:8:GLU:HG3	2:AD:141:GLN:OE1	2.01	0.60
3:AK:18:ILE:HG21	3:AK:130:PHE:CD1	2.36	0.60
3:Ay:102:ILE:CG1	3:Ay:150:LEU:HA	2.31	0.60
4:B3:89:LEU:HD22	4:B3:140:GLY:HA3	1.82	0.60
7:BG:18:GLN:NE2	7:BG:136:TRP:HE1	1.99	0.60
5:BH:107:LYS:HB2	5:BH:110:PHE:CD2	2.37	0.60
4:BO:1:LYS:HD2	4:BO:131:ASP:OD1	2.01	0.60
4:BU:120:GLN:HA	9:CX:65:ARG:NH2	2.17	0.60
5:Bl:107:LYS:HB2	5:Bl:110:PHE:CD2	2.37	0.60
6:Bm:113:ARG:O	6:Bm:117:GLU:HG3	2.01	0.60
8:C0:116:THR:HA	8:C0:125:PRO:HB3	1.83	0.60
9:C1:116:THR:HA	9:C1:125:ASP:OD2	2.00	0.60
10:C7:78:SER:CA	10:C7:81:PHE:HB2	2.31	0.60
10:CE:139:THR:HG22	10:CE:171:PHE:HE2	1.65	0.60
10:CJ:188:LEU:HD12	10:CJ:189:VAL:N	2.16	0.60
8:CM:135:ALA:HB1	8:CM:145:VAL:HB	1.82	0.60
8:CR:18:ASN:CG	10:CT:16:LYS:NZ	2.59	0.60
9:Cc:79:ASP:O	9:Cc:82:VAL:HG12	2.01	0.60
9:Cc:116:THR:HA	9:Cc:125:ASP:OD2	2.00	0.60
10:Cd:188:LEU:HD12	10:Cd:189:VAL:N	2.16	0.60
9:Cw:34:LYS:C	10:Cx:35:LEU:CD1	2.70	0.60
9:Cw:117:TRP:HB3	9:Cw:119:GLY:H	1.66	0.60
10:Cx:87:ASN:HA	10:Cx:94:ASP:OD2	2.02	0.60
3:AU:102:ILE:CG1	3:AU:150:LEU:HA	2.31	0.60
4:Aa:79:LEU:HD12	4:Aa:85:LEU:HD13	1.84	0.60
4:Af:79:LEU:HD12	4:Af:85:LEU:HD13	1.84	0.60
2:Ah:8:GLU:HG3	2:Ah:141:GLN:OE1	2.01	0.60
3:Ao:18:ILE:HG21	3:Ao:130:PHE:CD1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aq:18:GLN:HE21	1:Aq:136:TRP:HE1	1.50	0.60
1:Aq:48:PRO:C	1:Aq:50:VAL:N	2.58	0.60
4:B2:101:ILE:HG22	4:B2:102:PRO:HD2	1.83	0.60
4:B3:92:LEU:HD13	4:B3:141:ILE:HG12	1.82	0.60
5:B5:107:LYS:HB2	5:B5:110:PHE:CD2	2.37	0.60
6:B6:113:ARG:O	6:B6:117:GLU:HG3	2.01	0.60
4:BY:101:ILE:HG22	4:BY:102:PRO:HD2	1.83	0.60
4:BZ:89:LEU:HD22	4:BZ:140:GLY:HA3	1.82	0.60
4:Bi:142:LYS:HE3	4:Bi:144:HIS:HB2	1.83	0.60
4:By:120:GLN:HA	9:C1:65:ARG:NH2	2.17	0.60
9:C1:57:ILE:CG2	10:C2:57:LEU:HD12	2.09	0.60
9:C6:14:LEU:CD1	10:C7:14:ILE:HA	2.29	0.60
9:C6:107:ALA:HB1	9:C6:132:ILE:HG21	1.83	0.60
7:CA:74:ILE:HG23	7:CA:75:LEU:N	2.13	0.60
8:CC:135:ALA:HB1	8:CC:145:VAL:HB	1.82	0.60
10:CE:18:ILE:HG23	10:CE:19:GLU:N	2.15	0.60
10:CO:188:LEU:HD12	10:CO:189:VAL:N	2.16	0.60
9:CS:34:LYS:C	10:CT:35:LEU:CD1	2.70	0.60
8:CW:135:ALA:HB1	8:CW:145:VAL:HB	1.82	0.60
9:CX:116:THR:HA	9:CX:125:ASP:OD2	2.00	0.60
8:Cg:135:ALA:HB1	8:Cg:145:VAL:HB	1.82	0.60
5:Ck:110:PHE:HA	5:Ck:113:ILE:HD12	1.83	0.60
9:Cm:34:LYS:C	10:Cn:35:LEU:HD11	2.24	0.60
8:Cq:135:ALA:HB1	8:Cq:145:VAL:HB	1.82	0.60
10:Cx:139:THR:HG22	10:Cx:171:PHE:HE2	1.65	0.60
4:A4:79:LEU:HD12	4:A4:85:LEU:HD13	1.84	0.60
4:AB:79:LEU:HD12	4:AB:85:LEU:HD13	1.84	0.60
4:AG:79:LEU:HD12	4:AG:85:LEU:HD13	1.84	0.60
3:AP:102:ILE:CG1	3:AP:150:LEU:HA	2.31	0.60
4:AQ:79:LEU:HD12	4:AQ:85:LEU:HD13	1.84	0.60
4:Ak:79:LEU:HD12	4:Ak:85:LEU:HD13	1.84	0.60
3:At:102:ILE:CG1	3:At:150:LEU:HA	2.31	0.60
5:BC:49:ILE:O	5:BC:52:PRO:HD2	2.01	0.60
4:BO:101:ILE:HG22	4:BO:102:PRO:HD2	1.83	0.60
6:BS:71:VAL:HG21	5:CQ:89:MET:CE	2.32	0.60
4:BZ:92:LEU:HD13	4:BZ:141:ILE:HG12	1.82	0.60
5:Bb:107:LYS:HB2	5:Bb:110:PHE:CD2	2.37	0.60
4:Bd:1:LYS:HD2	4:Bd:131:ASP:OD1	2.01	0.60
5:Bg:49:ILE:O	5:Bg:52:PRO:HD2	2.01	0.60
4:Bi:101:ILE:HG22	4:Bi:102:PRO:HD2	1.83	0.60
4:Bn:101:ILE:HG22	4:Bn:102:PRO:HD2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C6:79:ASP:O	9:C6:82:VAL:HG12	2.01	0.60
10:CE:188:LEU:HD12	10:CE:189:VAL:N	2.16	0.60
5:CG:110:PHE:HA	5:CG:113:ILE:HD12	1.83	0.60
8:CH:18:ASN:CB	10:CJ:16:LYS:HZ3	2.14	0.60
8:CH:172:ASN:HD22	8:CH:172:ASN:C	2.10	0.60
9:CS:117:TRP:HB3	9:CS:119:GLY:H	1.66	0.60
9:CS:173:ASN:HB3	9:CS:176:SER:CB	2.26	0.60
9:Cc:14:LEU:CD1	10:Cd:14:ILE:HA	2.29	0.60
10:Cd:78:SER:CA	10:Cd:81:PHE:HB2	2.31	0.60
7:Ce:74:ILE:HG23	7:Ce:75:LEU:N	2.13	0.60
10:Ci:139:THR:HG22	10:Ci:171:PHE:HE2	1.65	0.60
10:Ci:188:LEU:HD12	10:Ci:189:VAL:N	2.16	0.60
7:Co:18:GLN:HE21	7:Co:136:TRP:HE1	1.50	0.60
4:A4:101:ILE:CD1	4:A4:142:LYS:HA	2.28	0.59
4:AG:87:GLU:CG	1:AH:66:LYS:HA	2.32	0.59
1:AM:18:GLN:HE21	1:AM:136:TRP:HE1	1.50	0.59
1:AM:48:PRO:C	1:AM:50:VAL:N	2.58	0.59
3:AZ:17:HIS:CD2	8:Cb:213:SER:HB2	2.37	0.59
4:Aa:101:ILE:CD1	4:Aa:142:LYS:HA	2.28	0.59
1:Ab:74:ILE:HG23	1:Ab:75:LEU:N	2.15	0.59
3:Aj:102:ILE:CG1	3:Aj:150:LEU:HA	2.31	0.59
4:Au:79:LEU:HD12	4:Au:85:LEU:HD13	1.84	0.59
2:Aw:8:GLU:HG3	2:Aw:141:GLN:OE1	2.01	0.59
3:Ay:18:ILE:HG21	3:Ay:130:PHE:CD1	2.36	0.59
4:B7:1:LYS:HD2	4:B7:131:ASP:OD1	2.01	0.59
4:BE:101:ILE:HG22	4:BE:102:PRO:HD2	1.83	0.59
4:BE:142:LYS:HE3	4:BE:144:HIS:HB2	1.83	0.59
4:Bt:120:GLN:HA	9:Cw:65:ARG:NH2	2.16	0.59
6:Bw:71:VAL:HG21	5:Cu:89:MET:CE	2.32	0.59
9:C1:38:ALA:N	10:C2:35:LEU:CD1	2.65	0.59
10:C2:139:THR:HG22	10:C2:171:PHE:HE2	1.65	0.59
9:CD:38:ALA:N	10:CE:35:LEU:CD1	2.65	0.59
9:CI:67:PHE:HD2	9:CI:82:VAL:HG21	1.66	0.59
7:CK:18:GLN:HE21	7:CK:136:TRP:HE1	1.50	0.59
10:CO:199:ARG:HA	10:CO:218:PHE:O	2.02	0.59
10:CT:77:ILE:HD12	10:CT:77:ILE:O	2.01	0.59
5:CV:11:VAL:HG23	5:CV:12:THR:N	2.17	0.59
8:CW:116:THR:HA	8:CW:125:PRO:HB3	1.83	0.59
9:CX:14:LEU:HD21	10:CY:14:ILE:CB	2.28	0.59
8:Cg:172:ASN:HD22	8:Cg:172:ASN:C	2.10	0.59
9:Ch:20:LEU:HD22	10:Ci:21:THR:CG2	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ci:18:ILE:HG23	10:Ci:19:GLU:N	2.15	0.59
9:Cr:38:ALA:N	10:Cs:35:LEU:CD1	2.65	0.59
10:Cs:139:THR:HG22	10:Cs:171:PHE:HE2	1.65	0.59
10:Cs:199:ARG:HA	10:Cs:218:PHE:O	2.02	0.59
10:Cx:77:ILE:HD12	10:Cx:77:ILE:O	2.01	0.59
5:Cz:11:VAL:HG23	5:Cz:12:THR:N	2.17	0.59
2:A1:18:LYS:NZ	2:A1:82:SER:HA	2.17	0.59
3:A3:17:HIS:CD2	8:C5:213:SER:HB2	2.37	0.59
2:A6:20:GLN:NE2	2:A6:135:TRP:HE1	2.00	0.59
2:AD:18:LYS:NZ	2:AD:82:SER:HA	2.17	0.59
3:AF:23:TRP:HE1	3:AF:78:LYS:HZ2	1.48	0.59
2:AS:8:GLU:HG3	2:AS:141:GLN:OE1	2.01	0.59
3:AU:18:ILE:HG21	3:AU:130:PHE:CD1	2.36	0.59
4:AV:79:LEU:HD12	4:AV:85:LEU:HD13	1.84	0.59
2:AX:18:LYS:NZ	2:AX:82:SER:HA	2.17	0.59
2:Ah:18:LYS:NZ	2:Ah:82:SER:HA	2.17	0.59
4:Ak:87:GLU:CG	1:Al:66:LYS:HA	2.32	0.59
2:Am:18:LYS:NZ	2:Am:82:SER:HA	2.17	0.59
1:Av:18:GLN:HE21	1:Av:136:TRP:HE1	1.50	0.59
4:Az:79:LEU:HD12	4:Az:85:LEU:HD13	1.84	0.59
6:B6:71:VAL:HG21	5:C4:89:MET:CE	2.32	0.59
6:BD:109:LYS:CD	6:BD:151:PRO:HG2	2.22	0.59
4:BJ:101:ILE:HG22	4:BJ:102:PRO:HD2	1.83	0.59
7:BL:18:GLN:NE2	7:BL:136:TRP:HE1	1.99	0.59
4:BP:120:GLN:HA	9:CS:65:ARG:NH2	2.16	0.59
5:BR:49:ILE:O	5:BR:52:PRO:HD2	2.01	0.59
5:BR:107:LYS:HB2	5:BR:110:PHE:CD2	2.37	0.59
6:Bc:71:VAL:HG21	5:Ca:89:MET:CE	2.32	0.59
4:Bo:89:LEU:HD22	4:Bo:140:GLY:HA3	1.82	0.59
4:Bs:101:ILE:HG22	4:Bs:102:PRO:HD2	1.83	0.59
9:C6:157:ARG:HG3	9:C6:158:HIS:H	1.66	0.59
10:C7:199:ARG:HA	10:C7:218:PHE:O	2.02	0.59
8:CC:172:ASN:HD22	8:CC:172:ASN:C	2.10	0.59
9:CD:181:LEU:HB2	9:CD:193:VAL:CG1	2.31	0.59
9:CI:14:LEU:HD21	10:CJ:14:ILE:CB	2.28	0.59
9:CN:38:ALA:N	10:CO:35:LEU:CD1	2.65	0.59
9:CS:43:PRO:HG2	9:CS:44:GLU:H	1.68	0.59
9:CX:38:ALA:N	10:CY:35:LEU:CD1	2.65	0.59
10:CY:87:ASN:HA	10:CY:94:ASP:OD2	2.02	0.59
10:CY:139:THR:HG22	10:CY:171:PHE:HE2	1.65	0.59
5:Ca:11:VAL:HG23	5:Ca:12:THR:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cb:82:PHE:CZ	8:Cb:94:ASP:HB3	2.37	0.59
9:Cc:28:ILE:CD1	10:Cd:28:ILE:CG1	2.78	0.59
9:Cc:157:ARG:HG3	9:Cc:158:HIS:H	1.66	0.59
10:Cd:199:ARG:HA	10:Cd:218:PHE:O	2.02	0.59
9:Ch:38:ALA:N	10:Ci:35:LEU:CD1	2.65	0.59
9:Ch:181:LEU:HB2	9:Ch:193:VAL:CG1	2.31	0.59
8:Cl:172:ASN:HD22	8:Cl:172:ASN:C	2.10	0.59
9:Cm:117:TRP:HB3	9:Cm:119:GLY:H	1.66	0.59
9:Cw:43:PRO:HG2	9:Cw:44:GLU:H	1.68	0.59
3:AA:17:HIS:CD2	8:CC:213:SER:HB2	2.37	0.59
4:AB:101:ILE:CD1	4:AB:142:LYS:HA	2.28	0.59
3:AF:102:ILE:CG1	3:AF:150:LEU:HA	2.31	0.59
2:AI:18:LYS:NZ	2:AI:82:SER:HA	2.17	0.59
3:AK:25:SER:OG	3:AK:30:ARG:HD2	2.02	0.59
3:AK:102:ILE:HG12	3:AK:150:LEU:CA	2.30	0.59
1:AR:18:GLN:HE21	1:AR:136:TRP:HE1	1.50	0.59
2:Ac:20:GLN:NE2	2:Ac:135:TRP:HE1	2.00	0.59
3:Ae:17:HIS:CD2	8:Cg:213:SER:HB2	2.37	0.59
3:Aj:23:TRP:NE1	3:Aj:78:LYS:HZ2	2.00	0.59
3:Ao:25:SER:OG	3:Ao:30:ARG:HD2	2.02	0.59
5:B0:83:MET:HE1	5:B0:89:MET:HB3	1.82	0.59
6:B6:71:VAL:HG21	5:C4:89:MET:HE1	1.83	0.59
6:BI:71:VAL:HG21	5:CG:89:MET:CE	2.32	0.59
4:BK:89:LEU:HD22	4:BK:140:GLY:HA3	1.82	0.59
4:Be:120:GLN:HA	9:Ch:65:ARG:NH2	2.16	0.59
6:Bm:71:VAL:HG21	5:Ck:89:MET:CE	2.32	0.59
5:Bv:107:LYS:HB2	5:Bv:110:PHE:CD2	2.37	0.59
5:C4:11:VAL:HG23	5:C4:12:THR:N	2.17	0.59
8:C5:82:PHE:CZ	8:C5:94:ASP:HB3	2.37	0.59
9:C6:31:LEU:CD1	10:C7:28:ILE:CB	2.78	0.59
9:CD:20:LEU:HD22	10:CE:21:THR:CG2	2.21	0.59
7:CF:48:PRO:C	7:CF:50:VAL:N	2.60	0.59
8:CH:18:ASN:CG	10:CJ:16:LYS:NZ	2.59	0.59
9:CI:117:TRP:HB3	9:CI:119:GLY:H	1.66	0.59
9:CN:67:PHE:HD2	9:CN:82:VAL:HG21	1.66	0.59
9:CN:157:ARG:HG3	9:CN:158:HIS:H	1.66	0.59
10:CO:139:THR:HG22	10:CO:171:PHE:HE2	1.65	0.59
8:CR:56:ASN:HB3	8:CR:199:GLY:O	2.02	0.59
9:CS:181:LEU:HB2	9:CS:193:VAL:CG1	2.31	0.59
9:CX:43:PRO:HD3	10:CY:38:ARG:CG	2.31	0.59
8:Cg:42:VAL:HG23	8:Cg:46:THR:CB	2.26	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cm:67:PHE:HD2	9:Cm:82:VAL:HG21	1.66	0.59
7:Ct:18:GLN:HE21	7:Ct:136:TRP:HE1	1.50	0.59
9:Cw:14:LEU:CD1	10:Cx:14:ILE:HB	2.28	0.59
3:AF:17:HIS:CD2	8:CH:213:SER:HB2	2.37	0.59
3:AF:23:TRP:NE1	3:AF:78:LYS:HZ2	1.99	0.59
3:AK:102:ILE:CD1	3:AK:150:LEU:HA	2.32	0.59
3:Aj:17:HIS:CD2	8:Cl:213:SER:HB2	2.37	0.59
3:Aj:18:ILE:HG21	3:Aj:130:PHE:CD1	2.36	0.59
1:Al:18:GLN:HE21	1:Al:136:TRP:HE1	1.50	0.59
3:Ao:102:ILE:HG12	3:Ao:150:LEU:CA	2.30	0.59
3:At:17:HIS:CD2	8:Cv:213:SER:HB2	2.37	0.59
5:BW:107:LYS:HB2	5:BW:110:PHE:CD2	2.37	0.59
6:Bc:71:VAL:HG21	5:Ca:89:MET:HE1	1.83	0.59
4:Bd:142:LYS:HE3	4:Bd:144:HIS:HB2	1.83	0.59
4:Bi:1:LYS:HD2	4:Bi:131:ASP:OD1	2.01	0.59
7:Bp:18:GLN:NE2	7:Bp:136:TRP:HE1	1.99	0.59
5:Bv:49:ILE:O	5:Bv:52:PRO:HD2	2.01	0.59
9:C1:43:PRO:HD3	10:C2:38:ARG:CG	2.31	0.59
10:C2:87:ASN:HA	10:C2:94:ASP:OD2	2.02	0.59
9:C6:43:PRO:HD3	10:C7:38:ARG:CG	2.32	0.59
10:CO:197:PHE:CB	10:CO:199:ARG:HB3	2.31	0.59
9:CX:67:PHE:HD2	9:CX:82:VAL:HG21	1.66	0.59
9:Cc:38:ALA:N	10:Cd:35:LEU:CD1	2.65	0.59
9:Cc:43:PRO:HD3	10:Cd:38:ARG:CG	2.32	0.59
7:Cj:48:PRO:C	7:Cj:50:VAL:N	2.60	0.59
5:Ck:11:VAL:HG23	5:Ck:12:THR:N	2.17	0.59
8:Cl:18:ASN:CG	10:Cn:16:LYS:NZ	2.59	0.59
9:Cm:14:LEU:HD21	10:Cn:14:ILE:CB	2.28	0.59
5:Cp:11:VAL:HG23	5:Cp:12:THR:N	2.17	0.59
9:Cr:67:PHE:HD2	9:Cr:82:VAL:HG21	1.66	0.59
8:Cv:56:ASN:HB3	8:Cv:199:GLY:O	2.02	0.59
9:Cw:173:ASN:HB3	9:Cw:176:SER:CB	2.26	0.59
3:AA:150:LEU:CB	3:AA:151:PRO:HD3	2.31	0.59
2:AD:20:GLN:NE2	2:AD:135:TRP:HE1	2.00	0.59
3:AF:18:ILE:HG21	3:AF:130:PHE:CD1	2.36	0.59
3:AP:17:HIS:CD2	8:CR:213:SER:HB2	2.37	0.59
2:Ah:20:GLN:NE2	2:Ah:135:TRP:HE1	2.00	0.59
3:Aj:102:ILE:CD1	3:Aj:150:LEU:HA	2.32	0.59
3:Ao:102:ILE:CD1	3:Ao:150:LEU:HA	2.32	0.59
5:B0:107:LYS:HB2	5:B0:110:PHE:CD2	2.37	0.59
6:B1:71:VAL:HG21	5:Cz:89:MET:CE	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B7:142:LYS:HE3	4:B7:144:HIS:HB2	1.83	0.59
4:BA:120:GLN:HA	9:CD:65:ARG:NH2	2.16	0.59
5:BW:83:MET:HE1	5:BW:89:MET:HB3	1.82	0.59
6:BX:71:VAL:HG21	5:CV:89:MET:CE	2.32	0.59
4:BY:142:LYS:HE3	4:BY:144:HIS:HB2	1.83	0.59
9:C1:14:LEU:HD21	10:C2:14:ILE:CB	2.28	0.59
9:C1:23:ARG:NH2	10:CT:18:ILE:HG13	2.18	0.59
9:C1:67:PHE:HD2	9:C1:82:VAL:HG21	1.66	0.59
9:C6:38:ALA:N	10:C7:35:LEU:CD1	2.65	0.59
10:C7:18:ILE:HG13	9:CN:23:ARG:NH2	2.18	0.59
9:CD:107:ALA:HB1	9:CD:132:ILE:HG13	1.84	0.59
8:CH:116:THR:HA	8:CH:125:PRO:HB3	1.83	0.59
10:CJ:139:THR:HG22	10:CJ:171:PHE:HE2	1.65	0.59
5:CL:11:VAL:HG23	5:CL:12:THR:N	2.17	0.59
9:CN:107:ALA:HB1	9:CN:132:ILE:HG13	1.84	0.59
7:CP:18:GLN:HE21	7:CP:136:TRP:HE1	1.50	0.59
10:CT:198:ASP:CB	10:CT:220:ARG:HE	2.16	0.59
9:CX:28:ILE:CD1	10:CY:28:ILE:CG1	2.78	0.59
9:CX:57:ILE:CG2	10:CY:57:LEU:HD12	2.09	0.59
9:Cc:31:LEU:CD1	10:Cd:28:ILE:CB	2.78	0.59
10:Cn:199:ARG:HA	10:Cn:218:PHE:O	2.02	0.59
9:Cr:157:ARG:HG3	9:Cr:158:HIS:H	1.66	0.59
9:Cw:181:LEU:HB2	9:Cw:193:VAL:CG1	2.31	0.59
10:Cx:198:ASP:CB	10:Cx:220:ARG:HE	2.16	0.59
1:A0:18:GLN:HE21	1:A0:136:TRP:HE1	1.50	0.59
1:A5:18:GLN:HE21	1:A5:136:TRP:HE1	1.50	0.59
2:AD:83:MET:HG2	2:AD:90:LEU:HA	1.85	0.59
3:AF:102:ILE:CD1	3:AF:150:LEU:HA	2.32	0.59
1:AH:18:GLN:HE21	1:AH:136:TRP:HE1	1.50	0.59
3:Ae:150:LEU:CB	3:Ae:151:PRO:HD3	2.31	0.59
4:Af:87:GLU:CG	1:Ag:66:LYS:HA	2.32	0.59
4:Af:101:ILE:CD1	4:Af:142:LYS:HA	2.28	0.59
2:Ah:83:MET:HG2	2:Ah:90:LEU:HA	1.85	0.59
2:Ah:84:LEU:HD23	2:Ah:138:CYS:SG	2.42	0.59
3:At:25:SER:OG	3:At:30:ARG:HD2	2.02	0.59
6:B1:71:VAL:HG21	5:Cz:89:MET:HE1	1.83	0.59
4:B2:142:LYS:HE3	4:B2:144:HIS:HB2	1.83	0.59
6:BD:71:VAL:HG21	5:CB:89:MET:CE	2.32	0.59
4:BE:1:LYS:HD2	4:BE:131:ASP:OD1	2.01	0.59
6:BX:71:VAL:HG21	5:CV:89:MET:HE1	1.83	0.59
4:BY:1:LYS:HD2	4:BY:131:ASP:OD1	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bh:71:VAL:HG21	5:Cf:89:MET:CE	2.32	0.59
9:C1:210:VAL:HG12	9:C1:217:GLN:HA	1.85	0.59
10:C2:18:ILE:HG13	9:CS:23:ARG:NH2	2.18	0.59
8:C5:172:ASN:HD22	8:C5:172:ASN:C	2.10	0.59
9:C6:210:VAL:HG12	9:C6:217:GLN:HA	1.85	0.59
5:CB:10:LEU:HD23	5:CB:12:THR:OG1	2.03	0.59
9:CD:43:PRO:HD3	10:CE:38:ARG:CG	2.31	0.59
5:CG:10:LEU:HD23	5:CG:12:THR:OG1	2.03	0.59
5:CG:11:VAL:HG23	5:CG:12:THR:N	2.17	0.59
10:CJ:199:ARG:HA	10:CJ:218:PHE:O	2.02	0.59
9:CN:43:PRO:HG2	9:CN:44:GLU:H	1.68	0.59
9:CN:181:LEU:HB2	9:CN:193:VAL:CG1	2.31	0.59
9:CS:14:LEU:CD1	10:CT:14:ILE:HB	2.28	0.59
9:CS:210:VAL:HG12	9:CS:217:GLN:HA	1.85	0.59
10:CT:199:ARG:HA	10:CT:218:PHE:O	2.02	0.59
9:CX:23:ARG:NH2	10:Cx:18:ILE:HG13	2.18	0.59
9:CX:210:VAL:HG12	9:CX:217:GLN:HA	1.85	0.59
5:Ca:10:LEU:HD23	5:Ca:12:THR:OG1	2.03	0.59
9:Cc:210:VAL:HG12	9:Cc:217:GLN:HA	1.85	0.59
10:Cd:18:ILE:HG13	9:Cr:23:ARG:NH2	2.18	0.59
5:Cf:10:LEU:HD23	5:Cf:12:THR:OG1	2.03	0.59
9:Ch:107:ALA:HB1	9:Ch:132:ILE:HG13	1.84	0.59
5:Ck:10:LEU:HD23	5:Ck:12:THR:OG1	2.03	0.59
9:Cm:107:ALA:HB1	9:Cm:132:ILE:HG13	1.84	0.59
10:Cn:139:THR:HG22	10:Cn:171:PHE:HE2	1.65	0.59
9:Cr:43:PRO:HG2	9:Cr:44:GLU:H	1.68	0.59
9:Cr:107:ALA:HB1	9:Cr:132:ILE:HG13	1.84	0.59
10:Cs:197:PHE:CB	10:Cs:199:ARG:HB3	2.31	0.59
9:Cw:43:PRO:HD3	10:Cx:38:ARG:CG	2.31	0.59
9:Cw:210:VAL:HG12	9:Cw:217:GLN:HA	1.85	0.59
10:Cx:199:ARG:HA	10:Cx:218:PHE:O	2.02	0.59
2:A1:8:GLU:HG3	2:A1:141:GLN:OE1	2.02	0.59
2:A1:109:GLU:O	2:A1:113:ILE:HG13	2.03	0.59
2:A6:8:GLU:HG3	2:A6:141:GLN:OE1	2.01	0.59
3:A7:66:PHE:O	3:A7:69:HIS:HB3	2.03	0.59
3:AA:25:SER:OG	3:AA:30:ARG:HD2	2.02	0.59
2:AD:84:LEU:HD23	2:AD:138:CYS:SG	2.42	0.59
3:AJ:66:PHE:O	3:AJ:69:HIS:HB3	2.03	0.59
3:AK:17:HIS:CD2	8:CM:213:SER:HB2	2.37	0.59
2:AN:109:GLU:O	2:AN:113:ILE:HG13	2.03	0.59
2:AX:8:GLU:HG3	2:AX:141:GLN:OE1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AX:18:LYS:HZ2	2:AX:82:SER:HA	1.68	0.59
3:Ad:66:PHE:O	3:Ad:69:HIS:HB3	2.03	0.59
3:Ae:25:SER:OG	3:Ae:30:ARG:HD2	2.02	0.59
1:Ag:18:GLN:HE21	1:Ag:136:TRP:HE1	1.50	0.59
3:An:66:PHE:O	3:An:69:HIS:HB3	2.03	0.59
4:Ap:122:GLY:HA2	8:Cq:170:PHE:HZ	1.61	0.59
2:Ar:109:GLU:O	2:Ar:113:ILE:HG13	2.03	0.59
3:As:66:PHE:O	3:As:69:HIS:HB3	2.03	0.59
4:B2:2:LYS:CB	4:B2:132:ALA:HB2	2.33	0.59
5:BC:107:LYS:HB2	5:BC:110:PHE:CD2	2.37	0.59
7:BQ:18:GLN:HE21	7:BQ:136:TRP:HE1	1.51	0.59
6:Br:66:PHE:O	6:Br:69:HIS:HB3	2.03	0.59
7:Bu:18:GLN:HE21	7:Bu:136:TRP:HE1	1.51	0.59
9:C1:28:ILE:CD1	10:C2:28:ILE:CG1	2.78	0.59
5:C4:10:LEU:HD23	5:C4:12:THR:OG1	2.03	0.59
8:CC:42:VAL:HG23	8:CC:46:THR:CB	2.26	0.59
9:CI:23:ARG:NH2	10:CI:18:ILE:HG13	2.18	0.59
9:CI:107:ALA:HB1	9:CI:132:ILE:HG13	1.84	0.59
9:CN:210:VAL:HG12	9:CN:217:GLN:HA	1.85	0.59
10:CO:78:SER:CA	10:CO:81:PHE:HB2	2.31	0.59
9:CS:67:PHE:HD2	9:CS:82:VAL:HG21	1.66	0.59
10:CY:18:ILE:HG13	9:Cw:23:ARG:NH2	2.18	0.59
9:Ch:43:PRO:HD3	10:CI:38:ARG:CG	2.31	0.59
7:Cj:18:GLN:HE21	7:Cj:136:TRP:HE1	1.50	0.59
9:Cr:181:LEU:HB2	9:Cr:193:VAL:CG1	2.31	0.59
9:Cr:210:VAL:HG12	9:Cr:217:GLN:HA	1.85	0.59
8:Cv:172:ASN:HD22	8:Cv:172:ASN:C	2.10	0.59
9:Cw:67:PHE:HD2	9:Cw:82:VAL:HG21	1.66	0.59
3:A3:25:SER:OG	3:A3:30:ARG:HD2	2.02	0.59
4:AB:87:GLU:CG	1:AC:66:LYS:HA	2.32	0.59
3:AO:66:PHE:O	3:AO:69:HIS:HB3	2.03	0.59
3:AP:25:SER:OG	3:AP:30:ARG:HD2	2.02	0.59
1:AW:18:GLN:HE21	1:AW:136:TRP:HE1	1.50	0.59
2:AX:109:GLU:O	2:AX:113:ILE:HG13	2.03	0.59
2:Ac:8:GLU:HG3	2:Ac:141:GLN:OE1	2.01	0.59
3:Ao:17:HIS:CD2	8:Cq:213:SER:HB2	2.37	0.59
3:Ay:22:VAL:CG1	3:Ay:127:LEU:HD22	2.25	0.59
6:B1:66:PHE:O	6:B1:69:HIS:HB3	2.03	0.59
4:B2:1:LYS:HD2	4:B2:131:ASP:OD1	2.01	0.59
4:BE:6:VAL:O	4:BE:10:LEU:HD13	2.03	0.59
6:BN:66:PHE:O	6:BN:69:HIS:HB3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BX:66:PHE:O	6:BX:69:HIS:HB3	2.03	0.59
4:BY:2:LYS:CB	4:BY:132:ALA:HB2	2.33	0.59
5:Bg:107:LYS:HB2	5:Bg:110:PHE:CD2	2.37	0.59
4:Bx:6:VAL:O	4:Bx:10:LEU:HD13	2.03	0.59
8:CC:43:ASP:C	8:CC:45:LYS:N	2.61	0.59
10:CE:18:ILE:HG13	9:Cm:23:ARG:NH2	2.18	0.59
10:CE:198:ASP:CB	10:CE:220:ARG:HE	2.16	0.59
7:CF:18:GLN:HE21	7:CF:136:TRP:HE1	1.50	0.59
10:CJ:198:ASP:CB	10:CJ:220:ARG:HE	2.16	0.59
9:CS:14:LEU:CD1	10:CT:14:ILE:HA	2.29	0.59
9:CS:43:PRO:HD3	10:CT:38:ARG:CG	2.31	0.59
9:CX:43:PRO:HG2	9:CX:44:GLU:H	1.68	0.59
9:CX:157:ARG:HG3	9:CX:158:HIS:H	1.66	0.59
8:Cg:43:ASP:C	8:Cg:45:LYS:N	2.61	0.59
8:Cl:116:THR:HA	8:Cl:125:PRO:HB3	1.83	0.59
10:Cs:78:SER:CA	10:Cs:81:PHE:HB2	2.31	0.59
9:Cw:14:LEU:CD1	10:Cx:14:ILE:HA	2.29	0.59
3:AA:23:TRP:NE1	3:AA:78:LYS:HZ2	2.00	0.59
1:AC:18:GLN:HE21	1:AC:136:TRP:HE1	1.50	0.59
2:AD:109:GLU:O	2:AD:113:ILE:HG13	2.03	0.59
2:AI:84:LEU:HD23	2:AI:138:CYS:SG	2.42	0.59
4:AL:122:GLY:HA2	8:CM:170:PHE:HZ	1.61	0.59
3:AP:102:ILE:CD1	3:AP:150:LEU:HA	2.32	0.59
3:AU:17:HIS:CD2	8:CW:213:SER:HB2	2.37	0.59
3:AU:22:VAL:CG1	3:AU:127:LEU:HD22	2.25	0.59
1:Ab:18:GLN:HE21	1:Ab:136:TRP:HE1	1.50	0.59
3:Ae:23:TRP:NE1	3:Ae:78:LYS:HZ2	2.00	0.59
2:Ah:109:GLU:O	2:Ah:113:ILE:HG13	2.03	0.59
3:Ay:17:HIS:CD2	8:C0:213:SER:HB2	2.37	0.59
6:BI:66:PHE:O	6:BI:69:HIS:HB3	2.03	0.59
4:BJ:6:VAL:O	4:BJ:10:LEU:HD13	2.03	0.59
4:BO:6:VAL:O	4:BO:10:LEU:HD13	2.03	0.59
4:BT:6:VAL:O	4:BT:10:LEU:HD13	2.03	0.59
4:BT:142:LYS:HE3	4:BT:144:HIS:HB2	1.83	0.59
4:Bi:6:VAL:O	4:Bi:10:LEU:HD13	2.03	0.59
6:Bm:66:PHE:O	6:Bm:69:HIS:HB3	2.03	0.59
6:Bm:71:VAL:HG21	5:Ck:89:MET:HE1	1.83	0.59
4:Bs:6:VAL:O	4:Bs:10:LEU:HD13	2.03	0.59
9:C1:34:LYS:C	10:C2:35:LEU:HD11	2.24	0.59
9:C1:107:ALA:HB1	9:C1:132:ILE:HG13	1.84	0.59
9:CD:23:ARG:NH2	10:Cn:18:ILE:HG13	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CO:198:ASP:CB	10:CO:220:ARG:HE	2.16	0.59
5:CQ:20:GLN:NE2	5:CQ:135:TRP:HE1	2.01	0.59
8:CR:172:ASN:HD22	8:CR:172:ASN:C	2.10	0.59
8:CW:82:PHE:CZ	8:CW:94:ASP:HB3	2.37	0.59
10:CY:199:ARG:HA	10:CY:218:PHE:O	2.02	0.59
9:Cc:199:ARG:HG2	9:Cc:204:ARG:HB3	1.85	0.59
10:Ci:198:ASP:CB	10:Ci:220:ARG:HE	2.16	0.59
10:Cn:198:ASP:CB	10:Cn:220:ARG:HE	2.16	0.59
9:Cr:117:TRP:HB3	9:Cr:119:GLY:H	1.66	0.59
10:Cs:198:ASP:CB	10:Cs:220:ARG:HE	2.16	0.59
5:Cu:20:GLN:NE2	5:Cu:135:TRP:HE1	2.01	0.59
2:A1:20:GLN:NE2	2:A1:135:TRP:HE1	2.00	0.59
3:A2:66:PHE:O	3:A2:69:HIS:HB3	2.03	0.59
3:AA:102:ILE:CG1	3:AA:150:LEU:HA	2.31	0.59
2:AN:84:LEU:HD23	2:AN:138:CYS:SG	2.42	0.59
2:AS:18:LYS:NZ	2:AS:82:SER:HA	2.17	0.59
2:AS:84:LEU:HD23	2:AS:138:CYS:SG	2.42	0.59
3:AZ:25:SER:OG	3:AZ:30:ARG:HD2	2.02	0.59
2:Ac:109:GLU:O	2:Ac:113:ILE:HG13	2.03	0.59
2:Am:84:LEU:HD23	2:Am:138:CYS:SG	2.42	0.59
2:Ar:84:LEU:HD23	2:Ar:138:CYS:SG	2.42	0.59
3:At:102:ILE:CD1	3:At:150:LEU:HA	2.32	0.59
2:Aw:84:LEU:HD23	2:Aw:138:CYS:SG	2.42	0.59
3:Ay:25:SER:OG	3:Ay:30:ARG:HD2	2.02	0.59
4:B2:6:VAL:O	4:B2:10:LEU:HD13	2.03	0.59
7:B4:48:PRO:C	7:B4:50:VAL:N	2.61	0.59
7:BB:18:GLN:HE21	7:BB:136:TRP:HE1	1.51	0.59
6:BI:71:VAL:HG21	5:CG:89:MET:HE1	1.83	0.59
7:BL:18:GLN:HE21	7:BL:136:TRP:HE1	1.51	0.59
4:BT:2:LYS:CB	4:BT:132:ALA:HB2	2.33	0.59
4:BY:6:VAL:O	4:BY:10:LEU:HD13	2.03	0.59
4:Bn:6:VAL:O	4:Bn:10:LEU:HD13	2.03	0.59
4:Bx:2:LYS:CB	4:Bx:132:ALA:HB2	2.33	0.59
7:Bz:18:GLN:HE21	7:Bz:136:TRP:HE1	1.51	0.59
8:C0:82:PHE:CZ	8:C0:94:ASP:HB3	2.37	0.59
9:C1:17:ASN:CG	10:C2:17:LEU:HD11	2.26	0.59
9:C1:43:PRO:HG2	9:C1:44:GLU:H	1.68	0.59
9:C1:157:ARG:HG3	9:C1:158:HIS:H	1.66	0.59
10:C2:199:ARG:HA	10:C2:218:PHE:O	2.02	0.59
9:C6:17:ASN:CG	10:C7:17:LEU:HD11	2.26	0.59
9:C6:199:ARG:HG2	9:C6:204:ARG:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C7:87:ASN:HA	10:C7:94:ASP:OD2	2.02	0.59
9:CD:28:ILE:CD1	10:CE:28:ILE:CG1	2.78	0.59
9:CD:43:PRO:HG2	9:CD:44:GLU:H	1.68	0.59
10:CJ:18:ILE:HG13	9:Ch:23:ARG:NH2	2.18	0.59
7:CK:48:PRO:C	7:CK:50:VAL:N	2.60	0.59
9:CX:17:ASN:CG	10:CY:17:LEU:HD11	2.26	0.59
9:CX:34:LYS:C	10:CY:35:LEU:HD11	2.24	0.59
9:CX:107:ALA:HB1	9:CX:132:ILE:HG13	1.84	0.59
8:Cb:56:ASN:O	8:Cb:199:GLY:CA	2.51	0.59
8:Cb:172:ASN:HD22	8:Cb:172:ASN:C	2.10	0.59
9:Cc:17:ASN:CG	10:Cd:17:LEU:HD11	2.26	0.59
10:Cd:87:ASN:HA	10:Cd:94:ASP:OD2	2.02	0.59
5:Cf:11:VAL:HG23	5:Cf:12:THR:N	2.17	0.59
9:Ch:28:ILE:CD1	10:Ci:28:ILE:CG1	2.78	0.59
9:Ch:43:PRO:HG2	9:Ch:44:GLU:H	1.68	0.59
9:Ch:199:ARG:HG2	9:Ch:204:ARG:HB3	1.85	0.59
10:Cs:82:VAL:HG12	10:Cs:94:ASP:CB	2.21	0.59
2:A6:109:GLU:O	2:A6:113:ILE:HG13	2.03	0.58
3:AF:25:SER:OG	3:AF:30:ARG:HD2	2.02	0.58
2:AS:18:LYS:HE2	2:AS:85:ASP:HB2	1.85	0.58
3:AU:25:SER:OG	3:AU:30:ARG:HD2	2.02	0.58
2:AX:20:GLN:NE2	2:AX:135:TRP:HE1	2.00	0.58
3:AY:66:PHE:O	3:AY:69:HIS:HB3	2.03	0.58
2:Aw:18:LYS:HE2	2:Aw:85:ASP:HB2	1.85	0.58
2:Aw:18:LYS:NZ	2:Aw:82:SER:HA	2.17	0.58
7:B4:18:GLN:HE21	7:B4:136:TRP:HE1	1.51	0.58
7:B4:129:ASP:OD1	7:B4:129:ASP:N	2.36	0.58
7:BV:18:GLN:HE21	7:BV:136:TRP:HE1	1.51	0.58
7:Ba:48:PRO:C	7:Ba:50:VAL:N	2.61	0.58
7:Ba:129:ASP:OD1	7:Ba:129:ASP:N	2.36	0.58
7:Bf:18:GLN:HE21	7:Bf:136:TRP:HE1	1.51	0.58
7:Bp:18:GLN:HE21	7:Bp:136:TRP:HE1	1.51	0.58
4:Bx:142:LYS:HE3	4:Bx:144:HIS:HB2	1.83	0.58
8:C5:56:ASN:O	8:C5:199:GLY:CA	2.51	0.58
9:CD:199:ARG:HG2	9:CD:204:ARG:HB3	1.85	0.58
10:CE:63:ASP:N	10:CE:66:GLU:HB2	2.08	0.58
5:CL:10:LEU:HD23	5:CL:12:THR:OG1	2.03	0.58
9:CN:117:TRP:HB3	9:CN:119:GLY:H	1.66	0.58
7:CP:48:PRO:C	7:CP:50:VAL:N	2.60	0.58
8:Cq:18:ASN:CG	10:Cs:16:LYS:NZ	2.59	0.58
3:AA:148:LYS:HG3	3:AA:149:ASP:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ae:102:ILE:CG1	3:Ae:150:LEU:HA	2.31	0.58
3:Ae:148:LYS:HG3	3:Ae:149:ASP:N	2.19	0.58
1:Ag:33:ILE:HG13	1:Ag:72:LEU:HD21	1.85	0.58
2:Aw:109:GLU:O	2:Aw:113:ILE:HG13	2.03	0.58
7:BG:18:GLN:HE21	7:BG:136:TRP:HE1	1.51	0.58
4:BJ:2:LYS:CB	4:BJ:132:ALA:HB2	2.33	0.58
4:BT:1:LYS:HD2	4:BT:131:ASP:OD1	2.01	0.58
7:Ba:18:GLN:HE21	7:Ba:136:TRP:HE1	1.51	0.58
7:Bk:18:GLN:HE21	7:Bk:136:TRP:HE1	1.51	0.58
4:Bn:2:LYS:CB	4:Bn:132:ALA:HB2	2.33	0.58
10:C7:198:ASP:CB	10:C7:220:ARG:HE	2.16	0.58
5:CB:11:VAL:HG23	5:CB:12:THR:N	2.17	0.58
9:CI:143:ALA:O	9:CI:174:PHE:HB2	2.04	0.58
8:CM:43:ASP:C	8:CM:45:LYS:N	2.61	0.58
5:CQ:11:VAL:HG23	5:CQ:12:THR:N	2.17	0.58
5:CV:10:LEU:HD23	5:CV:12:THR:OG1	2.03	0.58
10:Cd:198:ASP:CB	10:Cd:220:ARG:HE	2.16	0.58
8:Cl:21:ILE:N	10:Cn:20:ARG:NH1	2.39	0.58
9:Cm:38:ALA:N	10:Cn:35:LEU:CD1	2.65	0.58
9:Cm:143:ALA:O	9:Cm:174:PHE:HB2	2.04	0.58
7:Co:48:PRO:C	7:Co:50:VAL:N	2.60	0.58
5:Cp:10:LEU:HD23	5:Cp:12:THR:OG1	2.03	0.58
7:Ct:48:PRO:C	7:Ct:50:VAL:N	2.60	0.58
5:Cu:11:VAL:HG23	5:Cu:12:THR:N	2.17	0.58
7:Cy:18:GLN:HE21	7:Cy:136:TRP:HE1	1.50	0.58
5:Cz:20:GLN:NE2	5:Cz:135:TRP:HE1	2.01	0.58
1:A0:33:ILE:HG13	1:A0:72:LEU:HD21	1.85	0.58
3:A3:23:TRP:CZ2	3:A3:78:LYS:HB2	2.39	0.58
3:A3:102:ILE:CG1	3:A3:150:LEU:HA	2.31	0.58
1:AC:33:ILE:HG13	1:AC:72:LEU:HD21	1.85	0.58
3:AE:66:PHE:O	3:AE:69:HIS:HB3	2.03	0.58
2:AI:20:GLN:NE2	2:AI:135:TRP:HE1	2.00	0.58
3:AK:23:TRP:CZ2	3:AK:78:LYS:HB2	2.39	0.58
2:AS:109:GLU:O	2:AS:113:ILE:HG13	2.03	0.58
3:AU:148:LYS:HG3	3:AU:149:ASP:N	2.19	0.58
1:AW:33:ILE:HG13	1:AW:72:LEU:HD21	1.85	0.58
3:AZ:23:TRP:CZ2	3:AZ:78:LYS:HB2	2.39	0.58
1:Ag:74:ILE:HG23	1:Ag:75:LEU:N	2.15	0.58
3:Aj:25:SER:OG	3:Aj:30:ARG:HD2	2.02	0.58
3:Ay:23:TRP:NE1	3:Ay:78:LYS:HZ2	2.01	0.58
3:Ay:148:LYS:HG3	3:Ay:149:ASP:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bx:1:LYS:HD2	4:Bx:131:ASP:OD1	2.01	0.58
9:C1:214:THR:HG21	9:C1:216:HIS:HB2	1.86	0.58
10:C2:198:ASP:CB	10:C2:220:ARG:HE	2.16	0.58
7:CF:3:HIS:HA	9:CI:122:ALA:HB2	1.86	0.58
8:CH:43:ASP:C	8:CH:45:LYS:N	2.61	0.58
9:CI:38:ALA:N	10:CJ:35:LEU:CD1	2.65	0.58
8:CM:18:ASN:CG	10:CO:16:LYS:NZ	2.59	0.58
8:CR:43:ASP:C	8:CR:45:LYS:N	2.61	0.58
8:CW:43:ASP:C	8:CW:45:LYS:N	2.61	0.58
9:CX:214:THR:HG21	9:CX:216:HIS:HB2	1.86	0.58
9:Cc:43:PRO:HG2	9:Cc:44:GLU:H	1.68	0.58
7:Cj:3:HIS:HA	9:Cm:122:ALA:HB2	1.86	0.58
8:Cl:43:ASP:C	8:Cl:45:LYS:N	2.61	0.58
2:A6:84:LEU:HD23	2:A6:138:CYS:SG	2.42	0.58
1:AH:33:ILE:HG13	1:AH:72:LEU:HD21	1.85	0.58
3:AT:28:THR:O	3:AT:31:ARG:HG2	2.04	0.58
2:Ac:84:LEU:HD23	2:Ac:138:CYS:SG	2.42	0.58
1:Al:33:ILE:HG13	1:Al:72:LEU:HD21	1.85	0.58
2:Am:20:GLN:NE2	2:Am:135:TRP:HE1	2.00	0.58
3:Ao:23:TRP:CZ2	3:Ao:78:LYS:HB2	2.39	0.58
2:Ar:18:LYS:NZ	2:Ar:82:SER:HA	2.17	0.58
3:Ax:28:THR:O	3:Ax:31:ARG:HG2	2.04	0.58
5:B0:109:GLU:O	5:B0:113:ILE:HG13	2.04	0.58
6:B6:66:PHE:O	6:B6:69:HIS:HB3	2.03	0.58
4:BT:76:ILE:CA	4:BT:79:LEU:HD23	2.25	0.58
7:BV:149:SER:O	7:BV:151:LEU:HD12	2.04	0.58
5:BW:109:GLU:O	5:BW:113:ILE:HG13	2.04	0.58
4:Bd:39:ALA:HB1	10:Cd:137:PHE:HZ	1.69	0.58
8:C0:43:ASP:C	8:C0:45:LYS:N	2.61	0.58
8:C5:21:ILE:N	10:C7:20:ARG:NH1	2.39	0.58
8:C5:114:LEU:HD22	9:C6:73:GLU:HB2	1.86	0.58
9:C6:43:PRO:HG2	9:C6:44:GLU:H	1.68	0.58
10:CE:199:ARG:HA	10:CE:218:PHE:O	2.02	0.58
9:CI:34:LYS:C	10:CJ:35:LEU:CD1	2.70	0.58
7:CK:3:HIS:HA	9:CN:122:ALA:HB2	1.86	0.58
5:CQ:10:LEU:HD23	5:CQ:12:THR:OG1	2.03	0.58
7:CU:18:GLN:HE21	7:CU:136:TRP:HE1	1.50	0.58
5:CV:20:GLN:NE2	5:CV:135:TRP:HE1	2.01	0.58
10:CY:198:ASP:CB	10:CY:220:ARG:HE	2.16	0.58
8:Cb:114:LEU:HD22	9:Cc:73:GLU:HB2	1.86	0.58
9:Cm:34:LYS:C	10:Cn:35:LEU:CD1	2.70	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cm:38:ALA:CA	10:Cn:35:LEU:CD1	2.77	0.58
7:Co:3:HIS:HA	9:Cr:122:ALA:HB2	1.86	0.58
8:Cq:43:ASP:C	8:Cq:45:LYS:N	2.61	0.58
8:Cv:43:ASP:C	8:Cv:45:LYS:N	2.61	0.58
5:Cz:10:LEU:HD23	5:Cz:12:THR:OG1	2.03	0.58
3:A3:102:ILE:CD1	3:A3:150:LEU:HA	2.32	0.58
3:A3:148:LYS:HG3	3:A3:149:ASP:N	2.19	0.58
1:A5:33:ILE:HG13	1:A5:72:LEU:HD21	1.86	0.58
3:AA:23:TRP:CZ2	3:AA:78:LYS:HB2	2.39	0.58
4:AG:87:GLU:HG2	1:AH:66:LYS:N	2.19	0.58
4:AL:87:GLU:HG2	1:AM:66:LYS:N	2.19	0.58
3:AP:148:LYS:HG3	3:AP:149:ASP:N	2.19	0.58
4:AQ:122:GLY:HA2	8:CR:170:PHE:HZ	1.61	0.58
3:AZ:102:ILE:CG1	3:AZ:150:LEU:HA	2.31	0.58
2:Ac:18:LYS:NZ	2:Ac:82:SER:HA	2.17	0.58
3:Ae:23:TRP:CZ2	3:Ae:78:LYS:HB2	2.39	0.58
3:Ai:66:PHE:O	3:Ai:69:HIS:HB3	2.03	0.58
4:Ak:87:GLU:HG2	1:Al:66:LYS:N	2.19	0.58
2:Am:109:GLU:O	2:Am:113:ILE:HG13	2.03	0.58
4:B7:39:ALA:HB1	10:C7:137:PHE:HZ	1.69	0.58
6:Bc:66:PHE:O	6:Bc:69:HIS:HB3	2.03	0.58
4:Bd:2:LYS:CB	4:Bd:132:ALA:HB2	2.33	0.58
7:Bz:149:SER:O	7:Bz:151:LEU:HD12	2.04	0.58
8:C0:56:ASN:O	8:C0:199:GLY:CA	2.51	0.58
5:C4:20:GLN:NE2	5:C4:135:TRP:HE1	2.01	0.58
9:C6:57:ILE:CD1	10:C7:54:VAL:HG13	2.25	0.58
8:CC:56:ASN:O	8:CC:199:GLY:CA	2.51	0.58
9:CD:14:LEU:CD1	10:CE:14:ILE:HA	2.29	0.58
9:CD:67:PHE:HD2	9:CD:82:VAL:HG21	1.66	0.58
9:CI:23:ARG:CZ	10:CI:18:ILE:HD11	2.34	0.58
9:CI:41:ILE:CG2	10:CJ:38:ARG:O	2.52	0.58
9:CN:87:LYS:HA	9:CN:95:GLU:OE2	2.04	0.58
10:CO:82:VAL:HG12	10:CO:94:ASP:CB	2.21	0.58
8:CR:176:ARG:HB2	8:CR:196:PHE:HB3	1.85	0.58
9:CS:38:ALA:CA	10:CT:35:LEU:CD1	2.77	0.58
10:CT:70:GLY:O	10:CT:74:PRO:HA	2.04	0.58
8:CW:56:ASN:O	8:CW:199:GLY:CA	2.51	0.58
5:Ca:20:GLN:NE2	5:Ca:135:TRP:HE1	2.01	0.58
8:Cb:56:ASN:HB3	8:Cb:199:GLY:O	2.02	0.58
9:Cc:67:PHE:HD2	9:Cc:82:VAL:HG21	1.66	0.58
10:CI:63:ASP:N	10:CI:66:GLU:HB2	2.08	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ci:199:ARG:HA	10:Ci:218:PHE:O	2.02	0.58
9:Cm:24:LEU:CD2	10:Cn:24:ILE:HG23	2.18	0.58
9:Cm:41:ILE:CG2	10:Cn:38:ARG:O	2.52	0.58
9:Cr:87:LYS:HA	9:Cr:95:GLU:OE2	2.04	0.58
8:Cv:176:ARG:HB2	8:Cv:196:PHE:HB3	1.85	0.58
9:Cw:38:ALA:CA	10:Cx:35:LEU:CD1	2.77	0.58
9:Cw:157:ARG:HG3	9:Cw:158:HIS:H	1.66	0.58
10:Cx:70:GLY:O	10:Cx:74:PRO:HA	2.04	0.58
1:A0:48:PRO:C	1:A0:50:VAL:N	2.58	0.58
2:A1:84:LEU:HD23	2:A1:138:CYS:SG	2.42	0.58
3:AA:102:ILE:CD1	3:AA:150:LEU:HA	2.32	0.58
4:AB:87:GLU:HG2	1:AC:66:LYS:N	2.19	0.58
2:AI:109:GLU:O	2:AI:113:ILE:HG13	2.03	0.58
2:AN:18:LYS:NZ	2:AN:82:SER:HA	2.17	0.58
2:AN:20:GLN:NE2	2:AN:135:TRP:HE1	2.00	0.58
3:AP:23:TRP:CZ2	3:AP:78:LYS:HB2	2.39	0.58
1:AR:33:ILE:HG13	1:AR:72:LEU:HD21	1.85	0.58
2:AS:20:GLN:NE2	2:AS:135:TRP:HE1	2.00	0.58
3:AU:23:TRP:CZ2	3:AU:78:LYS:HB2	2.39	0.58
3:AU:102:ILE:CD1	3:AU:150:LEU:HA	2.32	0.58
1:AW:48:PRO:C	1:AW:50:VAL:N	2.58	0.58
2:AX:84:LEU:HD23	2:AX:138:CYS:SG	2.42	0.58
3:AZ:102:ILE:CD1	3:AZ:150:LEU:HA	2.32	0.58
3:AZ:148:LYS:HG3	3:AZ:149:ASP:N	2.19	0.58
1:Ab:33:ILE:HG13	1:Ab:72:LEU:HD21	1.86	0.58
3:Ae:102:ILE:CD1	3:Ae:150:LEU:HA	2.32	0.58
2:Am:83:MET:HG2	2:Am:90:LEU:HA	1.85	0.58
4:Ap:87:GLU:HG2	1:Aq:66:LYS:N	2.19	0.58
3:At:23:TRP:CZ2	3:At:78:LYS:HB2	2.39	0.58
3:At:148:LYS:HG3	3:At:149:ASP:N	2.19	0.58
1:Av:33:ILE:HG13	1:Av:72:LEU:HD21	1.85	0.58
2:Aw:20:GLN:NE2	2:Aw:135:TRP:HE1	2.00	0.58
3:Ax:66:PHE:O	3:Ax:69:HIS:HB3	2.03	0.58
3:Ay:23:TRP:CZ2	3:Ay:78:LYS:HB2	2.39	0.58
7:B4:149:SER:O	7:B4:151:LEU:HD12	2.04	0.58
4:B7:2:LYS:CB	4:B7:132:ALA:HB2	2.33	0.58
5:BH:110:PHE:HA	5:BH:113:ILE:HD12	1.86	0.58
7:Ba:149:SER:O	7:Ba:151:LEU:HD12	2.04	0.58
5:Bl:110:PHE:HA	5:Bl:113:ILE:HD12	1.86	0.58
9:C6:23:ARG:NH2	10:CO:18:ILE:HG13	2.18	0.58
9:C6:143:ALA:O	9:C6:174:PHE:HB2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:54:ILE:C	10:CE:53:ARG:NH2	2.52	0.58
8:CC:176:ARG:HB2	8:CC:196:PHE:HB3	1.85	0.58
10:CE:18:ILE:HD11	9:Cm:23:ARG:CZ	2.34	0.58
9:CI:38:ALA:CA	10:CJ:35:LEU:CD1	2.77	0.58
8:CW:114:LEU:HD22	9:CX:73:GLU:HB2	1.86	0.58
9:Cc:143:ALA:O	9:Cc:174:PHE:HB2	2.04	0.58
8:Cg:54:ILE:C	10:Ci:53:ARG:NH2	2.52	0.58
8:Cg:176:ARG:HB2	8:Cg:196:PHE:HB3	1.85	0.58
10:Ci:82:VAL:HG12	10:Ci:94:ASP:CB	2.21	0.58
9:Cr:41:ILE:CG2	10:Cs:38:ARG:O	2.52	0.58
5:Cu:10:LEU:HD23	5:Cu:12:THR:OG1	2.03	0.58
8:Cv:54:ILE:C	10:Cx:53:ARG:NH2	2.52	0.58
2:A6:18:LYS:NZ	2:A6:82:SER:HA	2.17	0.58
3:AP:22:VAL:CG1	3:AP:127:LEU:HD22	2.25	0.58
4:Af:87:GLU:HG2	1:Ag:66:LYS:N	2.19	0.58
2:Ar:18:LYS:HE2	2:Ar:85:ASP:HB2	1.86	0.58
3:As:28:THR:O	3:As:31:ARG:HG2	2.04	0.58
4:B2:39:ALA:HB1	10:C2:137:PHE:HZ	1.69	0.58
4:BE:2:LYS:CB	4:BE:132:ALA:HB2	2.33	0.58
4:BO:79:LEU:C	4:BO:79:LEU:HD12	2.29	0.58
7:BQ:129:ASP:OD1	7:BQ:129:ASP:N	2.36	0.58
4:BU:92:LEU:HD13	4:BU:141:ILE:CG1	2.34	0.58
4:BY:39:ALA:HB1	10:CY:137:PHE:HZ	1.69	0.58
6:Bh:71:VAL:HG21	5:Cf:89:MET:HE1	1.83	0.58
7:Bu:129:ASP:OD1	7:Bu:129:ASP:N	2.36	0.58
4:Bx:76:ILE:CA	4:Bx:79:LEU:HD23	2.25	0.58
4:By:92:LEU:HD13	4:By:141:ILE:CG1	2.34	0.58
8:C0:114:LEU:HD22	9:C1:73:GLU:HB2	1.86	0.58
10:C2:70:GLY:O	10:C2:74:PRO:HA	2.04	0.58
9:C6:67:PHE:HD2	9:C6:82:VAL:HG21	1.66	0.58
10:C7:18:ILE:HD11	9:CN:23:ARG:CZ	2.34	0.58
7:CA:48:PRO:C	7:CA:50:VAL:N	2.60	0.58
9:CD:41:ILE:CG2	10:CE:38:ARG:O	2.52	0.58
9:CD:210:VAL:HG12	9:CD:217:GLN:HA	1.85	0.58
9:CN:41:ILE:CG2	10:CO:38:ARG:O	2.52	0.58
8:CR:54:ILE:C	10:CT:53:ARG:NH2	2.52	0.58
9:CS:87:LYS:HA	9:CS:95:GLU:OE2	2.04	0.58
9:CS:107:ALA:HB1	9:CS:132:ILE:HG13	1.84	0.58
9:CS:157:ARG:HG3	9:CS:158:HIS:H	1.66	0.58
9:CS:214:THR:HG21	9:CS:216:HIS:HB2	1.86	0.58
10:CY:70:GLY:O	10:CY:74:PRO:HA	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cc:23:ARG:NH2	10:Cs:18:ILE:HG13	2.18	0.58
10:Cd:70:GLY:O	10:Cd:74:PRO:HA	2.04	0.58
8:Cg:56:ASN:O	8:Cg:199:GLY:CA	2.51	0.58
8:Cg:114:LEU:HD22	9:Ch:73:GLU:HB2	1.86	0.58
9:Ch:41:ILE:CG2	10:Ci:38:ARG:O	2.52	0.58
9:Cw:107:ALA:HB1	9:Cw:132:ILE:HG13	1.84	0.58
3:AF:148:LYS:HG3	3:AF:149:ASP:N	2.19	0.58
2:AI:83:MET:HG2	2:AI:90:LEU:HA	1.85	0.58
2:AN:83:MET:HG2	2:AN:90:LEU:HA	1.85	0.58
3:AO:28:THR:O	3:AO:31:ARG:HG2	2.04	0.58
4:AQ:101:ILE:CD1	4:AQ:142:LYS:HA	2.28	0.58
3:AT:66:PHE:O	3:AT:69:HIS:HB3	2.03	0.58
3:AY:28:THR:O	3:AY:31:ARG:HG2	2.04	0.58
3:Aj:23:TRP:CZ2	3:Aj:78:LYS:HB2	2.39	0.58
2:Ar:20:GLN:NE2	2:Ar:135:TRP:HE1	2.00	0.58
3:At:22:VAL:CG1	3:At:127:LEU:HD22	2.25	0.58
4:Au:122:GLY:HA2	8:Cv:170:PHE:HZ	1.61	0.58
3:Ay:102:ILE:CD1	3:Ay:150:LEU:HA	2.32	0.58
4:B2:79:LEU:C	4:B2:79:LEU:HD12	2.29	0.58
4:B7:79:LEU:C	4:B7:79:LEU:HD12	2.29	0.58
7:BB:149:SER:O	7:BB:151:LEU:HD12	2.04	0.58
4:BJ:79:LEU:C	4:BJ:79:LEU:HD12	2.29	0.58
6:BS:66:PHE:O	6:BS:69:HIS:HB3	2.03	0.58
4:BT:79:LEU:C	4:BT:79:LEU:HD12	2.29	0.58
4:BY:79:LEU:C	4:BY:79:LEU:HD12	2.29	0.58
4:Bd:79:LEU:C	4:Bd:79:LEU:HD12	2.29	0.58
6:Bh:66:PHE:O	6:Bh:69:HIS:HB3	2.03	0.58
4:Bi:2:LYS:CB	4:Bi:132:ALA:HB2	2.33	0.58
4:Bi:79:LEU:HD12	4:Bi:79:LEU:C	2.29	0.58
4:Bn:79:LEU:C	4:Bn:79:LEU:HD12	2.29	0.58
4:Bs:79:LEU:C	4:Bs:79:LEU:HD12	2.29	0.58
4:Bx:79:LEU:HD12	4:Bx:79:LEU:C	2.29	0.58
8:C5:56:ASN:HB3	8:C5:199:GLY:O	2.02	0.58
9:C6:107:ALA:HB1	9:C6:132:ILE:HG13	1.84	0.58
10:C7:70:GLY:O	10:C7:74:PRO:HA	2.04	0.58
8:CC:114:LEU:HD22	9:CD:73:GLU:HB2	1.86	0.58
9:CD:23:ARG:CZ	10:Cn:18:ILE:HD11	2.34	0.58
5:CG:20:GLN:NE2	5:CG:135:TRP:HE1	2.01	0.58
8:CH:114:LEU:HD22	9:CI:73:GLU:HB2	1.86	0.58
9:CI:24:LEU:CD2	10:CJ:24:ILE:HG23	2.18	0.58
9:CN:199:ARG:HG2	9:CN:204:ARG:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CS:24:LEU:CD2	10:CT:24:ILE:HG22	2.27	0.58
10:CT:57:LEU:C	10:CT:58:GLU:CG	2.40	0.58
8:Cb:21:ILE:N	10:Cd:20:ARG:NH1	2.39	0.58
8:Cb:43:ASP:C	8:Cb:45:LYS:N	2.61	0.58
10:Cd:18:ILE:HD11	9:Cr:23:ARG:CZ	2.34	0.58
7:Ce:48:PRO:C	7:Ce:50:VAL:N	2.60	0.58
9:Ch:14:LEU:CD1	10:Ci:14:ILE:HA	2.29	0.58
9:Ch:67:PHE:HD2	9:Ch:82:VAL:HG21	1.66	0.58
9:Ch:210:VAL:HG12	9:Ch:217:GLN:HA	1.85	0.58
5:Ck:20:GLN:NE2	5:Ck:135:TRP:HE1	2.01	0.58
8:Cl:114:LEU:HD22	9:Cm:73:GLU:HB2	1.86	0.58
9:Cm:210:VAL:HG12	9:Cm:217:GLN:HA	1.85	0.58
9:Cw:87:LYS:HA	9:Cw:95:GLU:OE2	2.04	0.58
9:Cw:201:ASP:HB2	9:Cw:204:ARG:NE	2.15	0.58
9:Cw:214:THR:HG21	9:Cw:216:HIS:HB2	1.86	0.58
10:Cx:57:LEU:C	10:Cx:58:GLU:CG	2.40	0.58
3:A2:28:THR:O	3:A2:31:ARG:HG2	2.04	0.58
1:A5:48:PRO:C	1:A5:50:VAL:N	2.58	0.58
3:AF:23:TRP:CZ2	3:AF:78:LYS:HB2	2.39	0.58
3:AK:102:ILE:CG1	3:AK:150:LEU:HA	2.31	0.58
2:AN:18:LYS:HE2	2:AN:85:ASP:HB2	1.86	0.58
4:AQ:87:GLU:HG2	1:AR:66:LYS:N	2.19	0.58
2:AX:18:LYS:HE2	2:AX:85:ASP:HB2	1.86	0.58
3:Aj:148:LYS:HG3	3:Aj:149:ASP:N	2.19	0.58
2:Ar:83:MET:HG2	2:Ar:90:LEU:HA	1.85	0.58
1:Av:48:PRO:C	1:Av:50:VAL:N	2.58	0.58
4:B3:92:LEU:HD13	4:B3:141:ILE:CG1	2.34	0.58
6:BD:66:PHE:O	6:BD:69:HIS:HB3	2.03	0.58
6:BD:71:VAL:HG21	5:CB:89:MET:HE1	1.83	0.58
4:BE:39:ALA:HB1	10:CE:137:PHE:HZ	1.68	0.58
4:BE:79:LEU:C	4:BE:79:LEU:HD12	2.29	0.58
4:BO:2:LYS:CB	4:BO:132:ALA:HB2	2.33	0.58
4:BO:76:ILE:CA	4:BO:79:LEU:HD23	2.25	0.58
7:Bf:149:SER:O	7:Bf:151:LEU:HD12	2.04	0.58
4:Bs:2:LYS:CB	4:Bs:132:ALA:HB2	2.33	0.58
7:C3:3:HIS:HA	9:C6:122:ALA:HB2	1.86	0.58
8:C5:43:ASP:C	8:C5:45:LYS:N	2.61	0.58
9:C6:34:LYS:HB3	10:C7:35:LEU:HG	1.86	0.58
9:CI:210:VAL:HG12	9:CI:217:GLN:HA	1.85	0.58
10:CJ:18:ILE:HD11	9:Ch:23:ARG:CZ	2.34	0.58
8:CM:74:PRO:HG3	10:CO:217:ILE:HD11	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CM:176:ARG:HB2	8:CM:196:PHE:HB3	1.85	0.58
9:CS:143:ALA:O	9:CS:174:PHE:HB2	2.03	0.58
9:Cc:107:ALA:HB1	9:Cc:132:ILE:HG13	1.84	0.58
9:Cr:38:ALA:CA	10:Cs:35:LEU:CD1	2.77	0.58
9:Cr:199:ARG:HG2	9:Cr:204:ARG:HB3	1.85	0.58
9:Cw:24:LEU:CD2	10:Cx:24:ILE:HG22	2.27	0.58
3:AF:28:THR:O	3:AF:31:ARG:HG2	2.04	0.58
1:Ab:48:PRO:C	1:Ab:50:VAL:N	2.58	0.58
3:Aj:28:THR:O	3:Aj:31:ARG:HG2	2.04	0.58
3:Ao:102:ILE:CG1	3:Ao:150:LEU:HA	2.31	0.58
4:Au:87:GLU:HG2	1:Av:66:LYS:N	2.19	0.58
7:BL:149:SER:O	7:BL:151:LEU:HD12	2.04	0.58
4:BZ:92:LEU:HD13	4:BZ:141:ILE:CG1	2.34	0.58
4:Bo:92:LEU:HD13	4:Bo:141:ILE:CG1	2.34	0.58
7:Bp:149:SER:O	7:Bp:151:LEU:HD12	2.04	0.58
7:Bu:149:SER:O	7:Bu:151:LEU:HD12	2.04	0.58
6:Bw:66:PHE:O	6:Bw:69:HIS:HB3	2.03	0.58
10:C2:18:ILE:HD11	9:CS:23:ARG:CZ	2.34	0.58
8:CC:130:VAL:O	8:CC:130:VAL:HG13	2.04	0.58
10:CE:70:GLY:O	10:CE:74:PRO:HA	2.04	0.58
10:CE:82:VAL:HG12	10:CE:94:ASP:CB	2.21	0.58
9:CI:43:PRO:HG2	9:CI:44:GLU:H	1.68	0.58
10:CJ:63:ASP:N	10:CJ:66:GLU:HB2	2.08	0.58
7:CU:3:HIS:HA	9:CX:122:ALA:HB2	1.86	0.58
7:CZ:3:HIS:HA	9:Cc:122:ALA:HB2	1.86	0.58
9:Cc:34:LYS:HB3	10:Cd:35:LEU:HG	1.86	0.58
9:Cc:57:ILE:CD1	10:Cd:54:VAL:HG13	2.25	0.58
8:Cg:31:ILE:HG23	9:Ch:35:LEU:HD22	1.86	0.58
8:Cg:130:VAL:O	8:Cg:130:VAL:HG13	2.04	0.58
9:Ch:24:LEU:CD2	10:CI:24:ILE:HG22	2.27	0.58
9:Cm:87:LYS:HA	9:Cm:95:GLU:OE2	2.04	0.58
8:Cq:74:PRO:HG3	10:Cs:217:ILE:HD11	1.86	0.58
8:Cq:172:ASN:HD22	8:Cq:172:ASN:C	2.10	0.58
8:Cq:176:ARG:HB2	8:Cq:196:PHE:HB3	1.85	0.58
9:Cw:143:ALA:O	9:Cw:174:PHE:HB2	2.03	0.58
9:Cw:199:ARG:HG2	9:Cw:204:ARG:HB3	1.85	0.58
2:A1:18:LYS:HE2	2:A1:85:ASP:HB2	1.86	0.57
4:AL:78:THR:CG2	4:AL:84:THR:HB	2.34	0.57
1:AR:48:PRO:C	1:AR:50:VAL:N	2.58	0.57
2:AS:83:MET:HG2	2:AS:90:LEU:HA	1.85	0.57
3:AZ:28:THR:O	3:AZ:31:ARG:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:An:28:THR:O	3:An:31:ARG:HG2	2.04	0.57
4:Ap:78:THR:CG2	4:Ap:84:THR:HB	2.34	0.57
2:Aw:49:ILE:O	2:Aw:52:PRO:HD2	2.04	0.57
2:Aw:83:MET:HG2	2:Aw:90:LEU:HA	1.85	0.57
4:BK:92:LEU:HD13	4:BK:141:ILE:CG1	2.34	0.57
7:BQ:149:SER:O	7:BQ:151:LEU:HD12	2.04	0.57
4:Bi:39:ALA:HB1	10:Ci:137:PHE:HZ	1.68	0.57
4:Bj:92:LEU:HD13	4:Bj:141:ILE:CG1	2.34	0.57
4:Bx:39:ALA:HB1	10:Cx:137:PHE:HZ	1.68	0.57
9:C1:122:ALA:HB2	7:Cy:3:HIS:HA	1.86	0.57
10:C2:67:HIS:HB3	10:C2:77:ILE:CD1	2.34	0.57
8:CC:31:ILE:HG23	9:CD:35:LEU:HD22	1.86	0.57
9:CD:42:ASP:N	10:CE:38:ARG:HH22	1.90	0.57
8:CH:74:PRO:HG3	10:CJ:217:ILE:HD11	1.86	0.57
9:CI:28:ILE:CD1	10:CJ:28:ILE:CG1	2.78	0.57
9:CI:87:LYS:HA	9:CI:95:GLU:OE2	2.04	0.57
8:CM:82:PHE:CZ	8:CM:94:ASP:HB3	2.37	0.57
9:CN:38:ALA:CA	10:CO:35:LEU:CD1	2.77	0.57
8:CR:82:PHE:CZ	8:CR:94:ASP:HB3	2.37	0.57
9:CS:199:ARG:HG2	9:CS:204:ARG:HB3	1.85	0.57
9:CS:201:ASP:HB2	9:CS:204:ARG:NE	2.15	0.57
8:CW:31:ILE:HG23	9:CX:35:LEU:HD22	1.86	0.57
9:CX:34:LYS:HB3	10:CY:35:LEU:HG	1.86	0.57
10:CY:67:HIS:HB3	10:CY:77:ILE:CD1	2.34	0.57
7:Ce:18:GLN:HE21	7:Ce:136:TRP:HE1	1.50	0.57
8:Cq:82:PHE:CZ	8:Cq:94:ASP:HB3	2.37	0.57
9:Cr:143:ALA:O	9:Cr:174:PHE:HB2	2.04	0.57
7:Ct:3:HIS:HA	9:Cw:122:ALA:HB2	1.86	0.57
8:Cv:114:LEU:HD22	9:Cw:73:GLU:HB2	1.86	0.57
3:A3:28:THR:O	3:A3:31:ARG:HG2	2.04	0.57
3:AJ:28:THR:O	3:AJ:31:ARG:HG2	2.04	0.57
3:AK:148:LYS:HG3	3:AK:149:ASP:N	2.19	0.57
2:AS:49:ILE:O	2:AS:52:PRO:HD2	2.04	0.57
3:AU:22:VAL:HG12	3:AU:127:LEU:CD2	2.23	0.57
4:AV:87:GLU:HG2	1:AW:66:LYS:N	2.19	0.57
4:Aa:87:GLU:HG2	1:Ab:66:LYS:N	2.19	0.57
4:Au:101:ILE:CD1	4:Au:142:LYS:HA	2.28	0.57
3:Ay:22:VAL:HG12	3:Ay:127:LEU:CD2	2.23	0.57
5:BC:110:PHE:HA	5:BC:113:ILE:HD12	1.86	0.57
4:BF:92:LEU:HD13	4:BF:141:ILE:CG1	2.34	0.57
7:BG:149:SER:O	7:BG:151:LEU:HD12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BR:109:GLU:O	5:BR:113:ILE:HG13	2.04	0.57
4:BT:39:ALA:HB1	10:CT:137:PHE:HZ	1.68	0.57
7:Bk:149:SER:O	7:Bk:151:LEU:HD12	2.04	0.57
8:C0:31:ILE:HG23	9:C1:35:LEU:HD22	1.86	0.57
9:C1:34:LYS:HB3	10:C2:35:LEU:HG	1.86	0.57
9:C6:214:THR:HG21	9:C6:216:HIS:HB2	1.86	0.57
7:CA:18:GLN:HE21	7:CA:136:TRP:HE1	1.50	0.57
9:CD:24:LEU:CD2	10:CE:24:ILE:HG22	2.27	0.57
8:CH:176:ARG:HB2	8:CH:196:PHE:HB3	1.85	0.57
9:CI:47:VAL:HG13	9:CI:48:SER:N	2.20	0.57
9:CI:79:ASP:OD2	9:CI:175:ALA:HB3	2.04	0.57
8:CM:114:LEU:HD22	9:CN:73:GLU:HB2	1.86	0.57
7:CP:3:HIS:HA	9:CS:122:ALA:HB2	1.86	0.57
8:CR:114:LEU:HD22	9:CS:73:GLU:HB2	1.86	0.57
10:CY:18:ILE:HD11	9:Cw:23:ARG:CZ	2.34	0.57
7:CZ:129:ASP:N	7:CZ:129:ASP:OD1	2.37	0.57
10:CI:70:GLY:O	10:CI:74:PRO:HA	2.04	0.57
8:Cl:74:PRO:HG3	10:Cn:217:ILE:HD11	1.86	0.57
8:Cl:176:ARG:HB2	8:Cl:196:PHE:HB3	1.85	0.57
9:Cm:28:ILE:CD1	10:Cn:28:ILE:CG1	2.78	0.57
9:Cm:34:LYS:HB3	10:Cn:35:LEU:HG	1.86	0.57
9:Cm:43:PRO:HG2	9:Cm:44:GLU:H	1.68	0.57
9:Cm:47:VAL:HG13	9:Cm:48:SER:N	2.20	0.57
5:Cp:20:GLN:NE2	5:Cp:135:TRP:HE1	2.01	0.57
8:Cq:114:LEU:HD22	9:Cr:73:GLU:HB2	1.86	0.57
9:Cr:79:ASP:OD2	9:Cr:175:ALA:HB3	2.04	0.57
10:Cs:70:GLY:O	10:Cs:74:PRO:HA	2.04	0.57
2:A1:18:LYS:HZ2	2:A1:82:SER:HA	1.69	0.57
4:A4:87:GLU:HG2	1:A5:66:LYS:N	2.19	0.57
3:AI:28:THR:O	3:AI:31:ARG:HG2	2.04	0.57
3:Ao:148:LYS:HG3	3:Ao:149:ASP:N	2.19	0.57
5:Bb:109:GLU:O	5:Bb:113:ILE:HG13	2.04	0.57
5:Bq:110:PHE:HA	5:Bq:113:ILE:HD12	1.86	0.57
10:C2:193:ASP:HB3	10:C2:196:ASN:O	2.04	0.57
10:C7:67:HIS:HB3	10:C7:77:ILE:CD1	2.34	0.57
10:C7:205:VAL:HG12	10:C7:212:VAL:HA	1.86	0.57
7:CA:3:HIS:HA	9:CD:122:ALA:HB2	1.86	0.57
8:CC:56:ASN:HB3	8:CC:199:GLY:O	2.02	0.57
9:CD:143:ALA:O	9:CD:174:PHE:HB2	2.03	0.57
10:CE:193:ASP:HB3	10:CE:196:ASN:O	2.04	0.57
9:CI:34:LYS:HB3	10:CJ:35:LEU:HG	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:114:PHE:CD1	10:CJ:114:PHE:O	2.58	0.57
10:CJ:197:PHE:CB	10:CJ:199:ARG:HB3	2.31	0.57
9:CN:143:ALA:O	9:CN:174:PHE:HB2	2.04	0.57
10:CO:70:GLY:O	10:CO:74:PRO:HA	2.04	0.57
10:CO:193:ASP:HB3	10:CO:196:ASN:O	2.04	0.57
8:CW:43:ASP:C	8:CW:45:LYS:CB	2.76	0.57
10:Cd:205:VAL:HG12	10:Cd:212:VAL:HA	1.86	0.57
9:Cm:79:ASP:OD2	9:Cm:175:ALA:HB3	2.04	0.57
10:Cn:114:PHE:CD1	10:Cn:114:PHE:O	2.58	0.57
10:Cs:63:ASP:N	10:Cs:66:GLU:HB2	2.08	0.57
10:Cs:193:ASP:HB3	10:Cs:196:ASN:O	2.04	0.57
9:Cw:24:LEU:CD2	10:Cx:24:ILE:HG23	2.18	0.57
1:A0:66:LYS:N	4:Az:87:GLU:HG2	2.19	0.57
3:AE:28:THR:O	3:AE:31:ARG:HG2	2.04	0.57
4:AG:78:THR:CG2	4:AG:84:THR:HB	2.34	0.57
3:AK:147:ALA:O	3:AK:150:LEU:HG	2.05	0.57
1:AM:33:ILE:HG13	1:AM:72:LEU:HD21	1.86	0.57
2:AN:49:ILE:O	2:AN:52:PRO:HD2	2.04	0.57
4:AQ:78:THR:CG2	4:AQ:84:THR:HB	2.34	0.57
2:Ac:83:MET:HG2	2:Ac:90:LEU:HA	1.85	0.57
4:Ak:78:THR:CG2	4:Ak:84:THR:HB	2.34	0.57
4:B2:41:VAL:O	4:B2:41:VAL:HG23	2.05	0.57
5:B5:109:GLU:O	5:B5:113:ILE:HG13	2.04	0.57
4:BA:92:LEU:HD13	4:BA:141:ILE:CG1	2.34	0.57
5:BC:109:GLU:O	5:BC:113:ILE:HG13	2.04	0.57
4:Bd:6:VAL:O	4:Bd:10:LEU:HD13	2.03	0.57
5:Bg:110:PHE:HA	5:Bg:113:ILE:HD12	1.86	0.57
4:Bs:39:ALA:HB1	10:Cs:137:PHE:HZ	1.69	0.57
4:Bs:76:ILE:CA	4:Bs:79:LEU:HD23	2.25	0.57
5:Bv:109:GLU:O	5:Bv:113:ILE:HG13	2.04	0.57
8:C0:114:LEU:HD22	9:C1:73:GLU:CB	2.35	0.57
10:C2:114:PHE:CD1	10:C2:114:PHE:O	2.58	0.57
7:C3:18:GLN:HE21	7:C3:136:TRP:HE1	1.50	0.57
8:C5:31:ILE:HG23	9:C6:35:LEU:HD22	1.86	0.57
9:C6:23:ARG:CZ	10:CO:18:ILE:HD11	2.34	0.57
9:C6:34:LYS:C	10:C7:35:LEU:HD11	2.24	0.57
9:CD:34:LYS:C	10:CE:35:LEU:HD11	2.24	0.57
10:CE:67:HIS:HB3	10:CE:77:ILE:CD1	2.34	0.57
10:CJ:193:ASP:HB3	10:CJ:196:ASN:O	2.04	0.57
5:CL:20:GLN:NE2	5:CL:135:TRP:HE1	2.01	0.57
8:CM:44:LYS:HE3	10:CO:46:LYS:HZ1	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:79:ASP:OD2	9:CN:175:ALA:HB3	2.04	0.57
10:CO:63:ASP:N	10:CO:66:GLU:HB2	2.08	0.57
9:CS:77:ILE:HG21	9:CS:88:ASP:OD2	2.05	0.57
8:CW:114:LEU:HD22	9:CX:73:GLU:CB	2.35	0.57
9:CX:199:ARG:HG2	9:CX:204:ARG:HB3	1.85	0.57
10:CY:114:PHE:O	10:CY:114:PHE:CD1	2.58	0.57
10:CY:193:ASP:HB3	10:CY:196:ASN:O	2.04	0.57
9:Cc:214:THR:HG21	9:Cc:216:HIS:HB2	1.86	0.57
10:Cd:67:HIS:HB3	10:Cd:77:ILE:CD1	2.34	0.57
5:Cf:20:GLN:NE2	5:Cf:135:TRP:HE1	2.01	0.57
8:Cg:56:ASN:HB3	8:Cg:199:GLY:O	2.02	0.57
9:Ch:42:ASP:N	10:Ch:38:ARG:HH22	1.90	0.57
9:Ch:143:ALA:O	9:Ch:174:PHE:HB2	2.03	0.57
10:Ch:67:HIS:HB3	10:Ch:77:ILE:CD1	2.34	0.57
10:Ch:193:ASP:HB3	10:Ch:196:ASN:O	2.04	0.57
10:Cn:193:ASP:HB3	10:Cn:196:ASN:O	2.04	0.57
8:Cq:44:LYS:HE3	10:Cs:46:LYS:HZ1	1.69	0.57
8:Cv:82:PHE:CZ	8:Cv:94:ASP:HB3	2.37	0.57
9:Cw:77:ILE:HG21	9:Cw:88:ASP:OD2	2.05	0.57
10:Cx:67:HIS:HB3	10:Cx:77:ILE:CD1	2.34	0.57
2:A1:83:MET:HG2	2:A1:90:LEU:HA	1.85	0.57
3:AU:147:ALA:O	3:AU:150:LEU:HG	2.05	0.57
3:Ao:147:ALA:O	3:Ao:150:LEU:HG	2.05	0.57
1:Aq:33:ILE:HG13	1:Aq:72:LEU:HD21	1.86	0.57
2:Ar:49:ILE:O	2:Ar:52:PRO:HD2	2.04	0.57
4:Au:78:THR:CG2	4:Au:84:THR:HB	2.34	0.57
5:BM:110:PHE:HA	5:BM:113:ILE:HD12	1.86	0.57
4:BY:41:VAL:O	4:BY:41:VAL:HG23	2.05	0.57
4:Be:92:LEU:HD13	4:Be:141:ILE:CG1	2.34	0.57
5:Bg:109:GLU:O	5:Bg:113:ILE:HG13	2.04	0.57
4:Bj:120:GLN:HG2	9:Cm:80:LEU:CD1	2.31	0.57
5:Bl:109:GLU:O	5:Bl:113:ILE:HG13	2.04	0.57
8:C0:14:VAL:HG22	10:C2:13:ILE:CG2	2.22	0.57
9:C1:77:ILE:HG21	9:C1:88:ASP:OD2	2.05	0.57
9:C1:109:ASN:HB3	9:C1:225:LEU:HD11	1.86	0.57
9:C6:77:ILE:CG2	9:C6:82:VAL:HB	2.35	0.57
5:CB:20:GLN:NE2	5:CB:135:TRP:HE1	2.01	0.57
9:CD:14:LEU:CD1	10:CE:14:ILE:HB	2.28	0.57
5:CG:109:GLU:O	5:CG:113:ILE:HG13	2.04	0.57
8:CR:74:PRO:HG3	10:CT:217:ILE:HD11	1.86	0.57
10:CT:67:HIS:HB3	10:CT:77:ILE:CD1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CT:193:ASP:HB3	10:CT:196:ASN:O	2.04	0.57
7:CU:48:PRO:C	7:CU:50:VAL:N	2.60	0.57
9:CX:77:ILE:HG21	9:CX:88:ASP:OD2	2.05	0.57
7:CZ:18:GLN:HE21	7:CZ:136:TRP:HE1	1.50	0.57
8:Cb:31:ILE:HG23	9:Cc:35:LEU:HD22	1.86	0.57
9:Cc:23:ARG:CZ	10:Cs:18:ILE:HD11	2.34	0.57
7:Ce:3:HIS:HA	9:Ch:122:ALA:HB2	1.86	0.57
9:Ch:14:LEU:CD1	10:Ci:14:ILE:HB	2.28	0.57
5:Ck:109:GLU:O	5:Ck:113:ILE:HG13	2.04	0.57
8:Cl:114:LEU:HD22	9:Cm:73:GLU:CB	2.35	0.57
9:Cm:34:LYS:NZ	10:Cn:32:GLU:CG	2.68	0.57
9:Cm:199:ARG:HG2	9:Cm:204:ARG:HB3	1.85	0.57
10:Cn:63:ASP:N	10:Cn:66:GLU:HB2	2.08	0.57
10:Cn:197:PHE:CB	10:Cn:199:ARG:HB3	2.31	0.57
9:Cr:77:ILE:HG21	9:Cr:88:ASP:OD2	2.05	0.57
9:Cw:137:ARG:HB2	9:Cw:141:PHE:CB	2.32	0.57
10:Cx:193:ASP:HB3	10:Cx:196:ASN:O	2.04	0.57
7:Cy:48:PRO:C	7:Cy:50:VAL:N	2.60	0.57
2:A6:83:MET:HG2	2:A6:90:LEU:HA	1.85	0.57
3:AP:28:THR:O	3:AP:31:ARG:HG2	2.04	0.57
2:AX:83:MET:HG2	2:AX:90:LEU:HA	1.85	0.57
4:Af:110:LYS:HG3	4:Af:134:ILE:CG2	2.34	0.57
3:Ao:28:THR:O	3:Ao:31:ARG:HG2	2.04	0.57
3:At:147:ALA:O	3:At:150:LEU:HG	2.05	0.57
3:Ay:147:ALA:O	3:Ay:150:LEU:HG	2.05	0.57
4:B7:6:VAL:O	4:B7:10:LEU:HD13	2.03	0.57
5:BH:109:GLU:O	5:BH:113:ILE:HG13	2.04	0.57
4:BJ:41:VAL:O	4:BJ:41:VAL:HG23	2.05	0.57
5:BM:109:GLU:O	5:BM:113:ILE:HG13	2.04	0.57
4:BO:39:ALA:HB1	10:CO:137:PHE:HZ	1.69	0.57
4:Bn:41:VAL:HG23	4:Bn:41:VAL:O	2.05	0.57
5:Bq:109:GLU:O	5:Bq:113:ILE:HG13	2.04	0.57
8:C0:43:ASP:C	8:C0:45:LYS:CB	2.76	0.57
9:C1:14:LEU:CD1	10:C2:14:ILE:HB	2.28	0.57
10:C7:99:THR:HB	10:C7:195:TYR:OH	2.05	0.57
8:CC:15:LYS:HE2	8:Cg:23:TYR:HE2	1.61	0.57
10:CE:99:THR:HB	10:CE:195:TYR:OH	2.05	0.57
8:CH:114:LEU:HD22	9:CI:73:GLU:CB	2.35	0.57
9:CI:34:LYS:NZ	10:CJ:32:GLU:CG	2.68	0.57
8:CM:172:ASN:HD22	8:CM:172:ASN:C	2.10	0.57
9:CN:34:LYS:HB3	10:CO:35:LEU:HG	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:77:ILE:HG21	9:CN:88:ASP:OD2	2.05	0.57
10:CO:114:PHE:CD1	10:CO:114:PHE:O	2.58	0.57
8:CR:114:LEU:HD22	9:CS:73:GLU:CB	2.35	0.57
9:CS:41:ILE:CG2	10:CT:38:ARG:O	2.52	0.57
9:Cc:34:LYS:C	10:Cd:35:LEU:HD11	2.24	0.57
9:Cc:77:ILE:CG2	9:Cc:82:VAL:HB	2.35	0.57
10:Cd:99:THR:HB	10:Cd:195:TYR:OH	2.05	0.57
9:Ch:34:LYS:C	10:Ci:35:LEU:HD11	2.24	0.57
10:Ci:99:THR:HB	10:Ci:195:TYR:OH	2.05	0.57
8:Cl:130:VAL:HG13	8:Cl:130:VAL:O	2.04	0.57
10:Cs:114:PHE:CD1	10:Cs:114:PHE:O	2.58	0.57
8:Cv:74:PRO:HG3	10:Cx:217:ILE:HD11	1.86	0.57
8:Cv:114:LEU:HD22	9:Cw:73:GLU:CB	2.35	0.57
9:Cw:41:ILE:CG2	10:Cx:38:ARG:O	2.52	0.57
3:A3:147:ALA:O	3:A3:150:LEU:HG	2.05	0.57
4:AB:110:LYS:HG3	4:AB:134:ILE:CG2	2.34	0.57
3:AK:28:THR:O	3:AK:31:ARG:HG2	2.04	0.57
3:AP:147:ALA:O	3:AP:150:LEU:HG	2.05	0.57
3:AU:23:TRP:NE1	3:AU:78:LYS:HZ2	2.02	0.57
3:AZ:147:ALA:O	3:AZ:150:LEU:HG	2.05	0.57
3:At:28:THR:O	3:At:31:ARG:HG2	2.04	0.57
7:BB:129:ASP:N	7:BB:129:ASP:OD1	2.36	0.57
5:BH:144:ASP:HA	5:BH:147:LYS:CG	2.35	0.57
7:Bf:129:ASP:OD1	7:Bf:129:ASP:N	2.36	0.57
5:Bg:144:ASP:HA	5:Bg:147:LYS:CG	2.35	0.57
5:Bl:144:ASP:HA	5:Bl:147:LYS:CG	2.35	0.57
4:Bt:92:LEU:HD13	4:Bt:141:ILE:CG1	2.34	0.57
9:C1:79:ASP:OD2	9:C1:175:ALA:HB3	2.04	0.57
9:C1:199:ARG:HG2	9:C1:204:ARG:HB3	1.85	0.57
5:C4:84:LEU:CD1	5:C4:90:LEU:HD13	2.32	0.57
8:C5:114:LEU:HD22	9:C6:73:GLU:CB	2.35	0.57
8:C5:176:ARG:HB2	8:C5:196:PHE:HB3	1.85	0.57
9:C6:41:ILE:CG2	10:C7:38:ARG:O	2.52	0.57
9:CD:23:ARG:HH11	9:Cm:20:LEU:HD11	1.70	0.57
9:CD:109:ASN:HB3	9:CD:225:LEU:HD11	1.86	0.57
10:CE:205:VAL:HG12	10:CE:212:VAL:HA	1.86	0.57
8:CH:130:VAL:O	8:CH:130:VAL:HG13	2.04	0.57
9:CI:20:LEU:HD11	9:Ch:23:ARG:HH11	1.70	0.57
9:CI:199:ARG:HG2	9:CI:204:ARG:HB3	1.85	0.57
8:CM:56:ASN:O	8:CM:199:GLY:CA	2.51	0.57
8:CM:114:LEU:HD22	9:CN:73:GLU:CB	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:14:LEU:CD1	10:CO:14:ILE:HA	2.29	0.57
9:CS:77:ILE:CG2	9:CS:82:VAL:HB	2.35	0.57
9:CS:137:ARG:HB2	9:CS:141:PHE:CB	2.32	0.57
9:CX:41:ILE:CG2	10:CY:38:ARG:O	2.52	0.57
9:CX:143:ALA:O	9:CX:174:PHE:HB2	2.04	0.57
10:CY:99:THR:HB	10:CY:195:TYR:OH	2.05	0.57
5:Ca:84:LEU:CD1	5:Ca:90:LEU:HD13	2.32	0.57
8:Cg:114:LEU:HD22	9:Ch:73:GLU:CB	2.35	0.57
9:Cr:34:LYS:HB3	10:Cs:35:LEU:HG	1.86	0.57
9:Cw:77:ILE:CG2	9:Cw:82:VAL:HB	2.35	0.57
3:AA:28:THR:O	3:AA:31:ARG:HG2	2.04	0.57
2:AD:49:ILE:O	2:AD:52:PRO:HD2	2.04	0.57
3:Ad:28:THR:O	3:Ad:31:ARG:HG2	2.04	0.57
3:Ae:147:ALA:O	3:Ae:150:LEU:HG	2.05	0.57
2:Am:49:ILE:O	2:Am:52:PRO:HD2	2.04	0.57
5:B5:144:ASP:HA	5:B5:147:LYS:CG	2.35	0.57
4:B7:74:ILE:O	4:B7:78:THR:HG23	2.05	0.57
5:BC:144:ASP:HA	5:BC:147:LYS:CG	2.35	0.57
4:BE:74:ILE:O	4:BE:78:THR:HG23	2.05	0.57
4:BO:41:VAL:O	4:BO:41:VAL:HG23	2.05	0.57
4:Bd:74:ILE:O	4:Bd:78:THR:HG23	2.05	0.57
4:Bi:74:ILE:O	4:Bi:78:THR:HG23	2.05	0.57
7:Bz:48:PRO:C	7:Bz:50:VAL:N	2.61	0.57
9:C1:23:ARG:CZ	10:CT:18:ILE:HD11	2.34	0.57
9:C1:41:ILE:CG2	10:C2:38:ARG:O	2.52	0.57
10:C2:99:THR:HB	10:C2:195:TYR:OH	2.05	0.57
8:C5:130:VAL:O	8:C5:130:VAL:HG13	2.04	0.57
8:CC:114:LEU:HD22	9:CD:73:GLU:CB	2.35	0.57
9:CD:181:LEU:HB2	9:CD:193:VAL:HG13	1.87	0.57
8:CH:31:ILE:HG23	9:CI:35:LEU:HD22	1.86	0.57
8:CH:82:PHE:CZ	8:CH:94:ASP:HB3	2.37	0.57
9:CN:77:ILE:CG2	9:CN:82:VAL:HB	2.35	0.57
8:CR:130:VAL:O	8:CR:130:VAL:HG13	2.04	0.57
9:CX:79:ASP:OD2	9:CX:175:ALA:HB3	2.04	0.57
9:CX:87:LYS:HA	9:CX:95:GLU:OE2	2.04	0.57
8:Cb:114:LEU:HD22	9:Cc:73:GLU:CB	2.35	0.57
8:Cb:130:VAL:O	8:Cb:130:VAL:HG13	2.04	0.57
8:Cb:176:ARG:HB2	8:Cb:196:PHE:HB3	1.85	0.57
9:Cc:41:ILE:CG2	10:Cd:38:ARG:O	2.52	0.57
9:Ch:109:ASN:HB3	9:Ch:225:LEU:HD11	1.86	0.57
9:Ch:181:LEU:HB2	9:Ch:193:VAL:HG13	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ci:205:VAL:HG12	10:Ci:212:VAL:HA	1.86	0.57
8:Cl:31:ILE:HG23	9:Cm:35:LEU:HD22	1.86	0.57
8:Cl:82:PHE:CZ	8:Cl:94:ASP:HB3	2.37	0.57
9:Cm:201:ASP:HB2	9:Cm:204:ARG:NE	2.15	0.57
8:Cq:56:ASN:O	8:Cq:199:GLY:CA	2.51	0.57
8:Cq:114:LEU:HD22	9:Cr:73:GLU:CB	2.35	0.57
9:Cr:57:ILE:CD1	10:Cs:54:VAL:HG13	2.25	0.57
9:Cw:28:ILE:CD1	10:Cx:28:ILE:CG1	2.78	0.57
10:Cx:114:PHE:O	10:Cx:114:PHE:CD1	2.58	0.57
4:A4:79:LEU:HD12	4:A4:85:LEU:CD1	2.35	0.57
3:AA:147:ALA:O	3:AA:150:LEU:HG	2.05	0.57
3:AP:23:TRP:NE1	3:AP:78:LYS:HZ2	2.02	0.57
3:AP:66:PHE:O	3:AP:69:HIS:HB3	2.05	0.57
3:AU:28:THR:O	3:AU:31:ARG:HG2	2.04	0.57
4:Aa:79:LEU:HD12	4:Aa:85:LEU:CD1	2.35	0.57
3:Ae:28:THR:O	3:Ae:31:ARG:HG2	2.04	0.57
2:Ah:49:ILE:O	2:Ah:52:PRO:HD2	2.04	0.57
3:At:66:PHE:O	3:At:69:HIS:HB3	2.05	0.57
3:Ay:28:THR:O	3:Ay:31:ARG:HG2	2.04	0.57
5:B0:110:PHE:HA	5:B0:113:ILE:HD12	1.86	0.57
5:B5:110:PHE:HA	5:B5:113:ILE:HD12	1.86	0.57
4:B7:41:VAL:HG23	4:B7:41:VAL:O	2.05	0.57
4:BP:92:LEU:HD13	4:BP:141:ILE:CG1	2.34	0.57
5:BW:110:PHE:HA	5:BW:113:ILE:HD12	1.86	0.57
5:Bb:144:ASP:HA	5:Bb:147:LYS:CG	2.35	0.57
4:Bd:41:VAL:O	4:Bd:41:VAL:HG23	2.05	0.57
5:Bq:144:ASP:HA	5:Bq:147:LYS:CG	2.35	0.57
8:C0:18:ASN:CB	10:C2:16:LYS:HZ3	2.17	0.57
9:C1:20:LEU:HD11	9:CS:23:ARG:HH11	1.70	0.57
9:C1:23:ARG:HH11	9:CS:20:LEU:HD11	1.70	0.57
9:C1:143:ALA:O	9:C1:174:PHE:HB2	2.04	0.57
9:C6:77:ILE:HG21	9:C6:88:ASP:OD2	2.05	0.57
9:C6:79:ASP:OD2	9:C6:175:ALA:HB3	2.04	0.57
5:CB:109:GLU:O	5:CB:113:ILE:HG13	2.04	0.57
9:CD:47:VAL:HG13	9:CD:48:SER:N	2.20	0.57
10:CE:114:PHE:CD1	10:CE:114:PHE:O	2.58	0.57
8:CH:42:VAL:HG23	8:CH:46:THR:CB	2.26	0.57
10:CJ:205:VAL:HG12	10:CJ:212:VAL:HA	1.86	0.57
8:CR:31:ILE:HG23	9:CS:35:LEU:HD22	1.86	0.57
9:CS:34:LYS:NZ	10:CT:32:GLU:CG	2.68	0.57
10:CT:114:PHE:CD1	10:CT:114:PHE:O	2.58	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CT:205:VAL:HG12	10:CT:212:VAL:HA	1.86	0.57
5:CV:109:GLU:O	5:CV:113:ILE:HG13	2.04	0.57
9:CX:77:ILE:CG2	9:CX:82:VAL:HB	2.35	0.57
9:Cc:77:ILE:HG21	9:Cc:88:ASP:OD2	2.05	0.57
9:Cc:79:ASP:OD2	9:Cc:175:ALA:HB3	2.04	0.57
8:Cg:168:ARG:HG2	8:Cg:169:GLY:N	2.20	0.57
9:Ch:47:VAL:HG13	9:Ch:48:SER:N	2.20	0.57
8:Cl:42:VAL:HG23	8:Cl:46:THR:CB	2.26	0.57
9:Cm:77:ILE:HG21	9:Cm:88:ASP:OD2	2.05	0.57
9:Cm:181:LEU:HB2	9:Cm:193:VAL:HG13	1.87	0.57
10:Cn:205:VAL:HG12	10:Cn:212:VAL:HA	1.86	0.57
5:Cp:109:GLU:O	5:Cp:113:ILE:HG13	2.04	0.57
9:Cr:77:ILE:CG2	9:Cr:82:VAL:HB	2.35	0.57
2:A6:49:ILE:O	2:A6:52:PRO:HD2	2.04	0.57
2:A6:125:ARG:HH11	2:A6:125:ARG:HG2	1.69	0.57
3:A7:28:THR:O	3:A7:31:ARG:HG2	2.04	0.57
3:A7:101:HIS:O	3:A7:150:LEU:HD11	2.05	0.57
2:AI:49:ILE:O	2:AI:52:PRO:HD2	2.04	0.57
4:AL:79:LEU:HD12	4:AL:85:LEU:CD1	2.35	0.57
2:Ac:49:ILE:O	2:Ac:52:PRO:HD2	2.04	0.57
3:Ad:101:HIS:O	3:Ad:150:LEU:HD11	2.05	0.57
3:Aj:147:ALA:O	3:Aj:150:LEU:HG	2.05	0.57
4:Ap:79:LEU:HD12	4:Ap:85:LEU:CD1	2.35	0.57
6:BD:83:LEU:HD11	5:CB:71:GLN:HG2	1.87	0.57
5:BM:144:ASP:HA	5:BM:147:LYS:CG	2.35	0.57
6:Bh:83:LEU:HD11	5:Cf:71:GLN:HG2	1.87	0.57
4:Bn:74:ILE:O	4:Bn:78:THR:HG23	2.05	0.57
4:Bs:41:VAL:O	4:Bs:41:VAL:HG23	2.05	0.57
9:C1:77:ILE:CG2	9:C1:82:VAL:HB	2.35	0.57
9:C1:87:LYS:HA	9:C1:95:GLU:OE2	2.04	0.57
8:CC:168:ARG:HG2	8:CC:169:GLY:N	2.20	0.57
8:CH:56:ASN:HB3	8:CH:199:GLY:O	2.02	0.57
9:CI:14:LEU:CD1	10:CJ:14:ILE:HB	2.28	0.57
9:CI:77:ILE:HG21	9:CI:88:ASP:OD2	2.05	0.57
9:CI:181:LEU:HB2	9:CI:193:VAL:HG13	1.87	0.57
10:CJ:67:HIS:HB3	10:CJ:77:ILE:CD1	2.34	0.57
5:CL:109:GLU:O	5:CL:113:ILE:HG13	2.04	0.57
9:CN:47:VAL:HG13	9:CN:48:SER:N	2.20	0.57
9:CN:181:LEU:HB2	9:CN:193:VAL:HG13	1.87	0.57
9:CS:28:ILE:CD1	10:CT:28:ILE:CG1	2.78	0.57
9:CS:79:ASP:OD2	9:CS:175:ALA:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CW:18:ASN:CB	10:CY:16:LYS:HZ3	2.17	0.57
8:CW:105:THR:HG23	8:CW:145:VAL:HG11	1.87	0.57
9:CX:14:LEU:CD1	10:CY:14:ILE:HB	2.28	0.57
9:CX:20:LEU:HD11	9:Cw:23:ARG:HH11	1.70	0.57
9:CX:23:ARG:CZ	10:Cx:18:ILE:HD11	2.34	0.57
9:CX:23:ARG:HH11	9:Cw:20:LEU:HD11	1.70	0.57
9:CX:147:LEU:N	9:CX:147:LEU:HD23	2.20	0.57
9:Ch:38:ALA:CA	10:Ci:35:LEU:CD1	2.77	0.57
9:Ch:77:ILE:HG21	9:Ch:88:ASP:OD2	2.05	0.57
10:Ci:114:PHE:O	10:Ci:114:PHE:CD1	2.58	0.57
9:Cr:14:LEU:CD1	10:Cs:14:ILE:HA	2.29	0.57
9:Cr:47:VAL:HG13	9:Cr:48:SER:N	2.20	0.57
10:Cs:67:HIS:HB3	10:Cs:77:ILE:CD1	2.34	0.57
9:Cw:34:LYS:NZ	10:Cx:32:GLU:CG	2.68	0.57
5:Cz:109:GLU:O	5:Cz:113:ILE:HG13	2.04	0.57
3:AE:101:HIS:O	3:AE:150:LEU:HD11	2.05	0.56
2:AI:125:ARG:HH11	2:AI:125:ARG:HG2	1.70	0.56
3:AZ:22:VAL:CG1	3:AZ:127:LEU:HD22	2.25	0.56
2:Ac:125:ARG:HH11	2:Ac:125:ARG:HG2	1.69	0.56
3:Ai:101:HIS:O	3:Ai:150:LEU:HD11	2.05	0.56
3:Ao:66:PHE:O	3:Ao:69:HIS:HB3	2.05	0.56
7:BG:129:ASP:OD1	7:BG:129:ASP:N	2.36	0.56
6:BI:83:LEU:HD11	5:CG:71:GLN:HG2	1.87	0.56
4:BJ:74:ILE:O	4:BJ:78:THR:HG23	2.05	0.56
5:Bb:110:PHE:HA	5:Bb:113:ILE:HD12	1.86	0.56
7:Bk:129:ASP:N	7:Bk:129:ASP:OD1	2.36	0.56
6:Bm:83:LEU:HD11	5:Ck:71:GLN:HG2	1.87	0.56
4:Bx:74:ILE:O	4:Bx:78:THR:HG23	2.05	0.56
8:C0:105:THR:HG23	8:C0:145:VAL:HG11	1.87	0.56
9:C1:147:LEU:N	9:C1:147:LEU:HD23	2.20	0.56
8:C5:105:THR:HG23	8:C5:145:VAL:HG11	1.87	0.56
9:C6:28:ILE:CD1	10:C7:28:ILE:CG1	2.78	0.56
8:CC:74:PRO:HG3	10:CE:217:ILE:HD11	1.86	0.56
9:CD:34:LYS:NZ	10:CE:32:GLU:CG	2.68	0.56
9:CD:38:ALA:CA	10:CE:35:LEU:CD1	2.77	0.56
9:CD:77:ILE:HG21	9:CD:88:ASP:OD2	2.05	0.56
8:CH:21:ILE:HD13	10:CJ:20:ARG:HD3	1.87	0.56
10:CO:99:THR:HB	10:CO:195:TYR:OH	2.05	0.56
9:CS:109:ASN:HB3	9:CS:225:LEU:HD11	1.86	0.56
8:CW:14:VAL:HG22	10:CY:13:ILE:CG2	2.22	0.56
9:CX:31:LEU:O	9:CX:31:LEU:HD23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CZ:48:PRO:C	7:CZ:50:VAL:N	2.60	0.56
5:Cf:109:GLU:O	5:Cf:113:ILE:HG13	2.04	0.56
8:Cg:74:PRO:HG3	10:Ci:217:ILE:HD11	1.86	0.56
8:Cl:21:ILE:HD13	10:Cn:20:ARG:HD3	1.87	0.56
8:Cl:56:ASN:HB3	8:Cl:199:GLY:O	2.02	0.56
9:Cm:137:ARG:HB2	9:Cm:141:PHE:CB	2.32	0.56
10:Cn:67:HIS:HB3	10:Cn:77:ILE:CD1	2.34	0.56
9:Cr:28:ILE:CD1	10:Cs:28:ILE:CG1	2.78	0.56
9:Cr:181:LEU:HB2	9:Cr:193:VAL:HG13	1.87	0.56
10:Cs:99:THR:HB	10:Cs:195:TYR:OH	2.05	0.56
10:Cs:205:VAL:HG12	10:Cs:212:VAL:HA	1.86	0.56
8:Cv:31:ILE:HG23	9:Cw:35:LEU:HD22	1.86	0.56
8:Cv:118:THR:HG23	8:Cv:119:SER:N	2.20	0.56
9:Cw:66:THR:CG2	9:Cw:76:CYS:HB3	2.27	0.56
9:Cw:79:ASP:OD2	9:Cw:175:ALA:HB3	2.04	0.56
10:Cx:205:VAL:HG12	10:Cx:212:VAL:HA	1.86	0.56
3:A3:22:VAL:CG1	3:A3:127:LEU:HD22	2.25	0.56
3:A3:66:PHE:O	3:A3:69:HIS:HB3	2.05	0.56
2:A6:115:LEU:HB2	2:A6:143:ILE:HD11	1.87	0.56
4:AB:79:LEU:HD12	4:AB:85:LEU:CD1	2.35	0.56
3:AF:147:ALA:O	3:AF:150:LEU:HG	2.05	0.56
3:AK:66:PHE:O	3:AK:69:HIS:HB3	2.05	0.56
3:AU:66:PHE:O	3:AU:69:HIS:HB3	2.05	0.56
4:AV:35:ARG:HD3	8:CW:84:ASP:HA	1.87	0.56
3:AZ:66:PHE:O	3:AZ:69:HIS:HB3	2.05	0.56
4:Af:79:LEU:HD12	4:Af:85:LEU:CD1	2.35	0.56
3:At:145:ARG:CA	3:At:148:LYS:HG2	2.35	0.56
3:Ay:66:PHE:O	3:Ay:69:HIS:HB3	2.05	0.56
6:BD:18:ILE:HG21	6:BD:130:PHE:CD1	2.40	0.56
4:BE:41:VAL:HG23	4:BE:41:VAL:O	2.04	0.56
7:BV:48:PRO:C	7:BV:50:VAL:N	2.61	0.56
4:Bi:41:VAL:O	4:Bi:41:VAL:HG23	2.04	0.56
4:Bn:39:ALA:HB1	10:Cn:137:PHE:HZ	1.69	0.56
4:Bs:74:ILE:O	4:Bs:78:THR:HG23	2.05	0.56
4:Bx:41:VAL:O	4:Bx:41:VAL:HG23	2.04	0.56
9:C1:31:LEU:O	9:C1:31:LEU:HD23	2.05	0.56
9:C1:34:LYS:C	10:C2:35:LEU:CD1	2.70	0.56
8:C5:74:PRO:HG3	10:C7:217:ILE:HD11	1.86	0.56
9:C6:87:LYS:HA	9:C6:95:GLU:OE2	2.04	0.56
9:C6:181:LEU:HB2	9:C6:193:VAL:HG13	1.87	0.56
9:CD:20:LEU:HD11	9:Cm:23:ARG:HH11	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:201:ASP:HB2	9:CI:204:ARG:NE	2.15	0.56
9:CN:28:ILE:CD1	10:CO:28:ILE:CG1	2.78	0.56
9:CN:57:ILE:CD1	10:CO:54:VAL:HG13	2.25	0.56
10:CO:67:HIS:HB3	10:CO:77:ILE:CD1	2.34	0.56
10:CO:205:VAL:HG12	10:CO:212:VAL:HA	1.86	0.56
8:CR:118:THR:HG23	8:CR:119:SER:N	2.20	0.56
9:CS:34:LYS:HB3	10:CT:35:LEU:HG	1.86	0.56
9:CS:181:LEU:HB2	9:CS:193:VAL:HG13	1.87	0.56
10:CY:205:VAL:HG12	10:CY:212:VAL:HA	1.86	0.56
8:Cb:105:THR:HG23	8:Cb:145:VAL:HG11	1.87	0.56
9:Cc:31:LEU:O	9:Cc:31:LEU:HD23	2.05	0.56
9:Ch:34:LYS:NZ	10:CI:32:GLU:CG	2.68	0.56
9:Ch:87:LYS:HA	9:Ch:95:GLU:OE2	2.04	0.56
10:Cn:99:THR:HB	10:Cn:195:TYR:OH	2.05	0.56
8:Cq:14:VAL:HG22	10:Cs:13:ILE:CG2	2.22	0.56
9:Cr:31:LEU:O	9:Cr:31:LEU:HD23	2.05	0.56
9:Cw:34:LYS:HB3	10:Cx:35:LEU:HG	1.86	0.56
2:A1:115:LEU:HB2	2:A1:143:ILE:HD11	1.87	0.56
2:AD:125:ARG:HH11	2:AD:125:ARG:HG2	1.69	0.56
3:AP:145:ARG:CA	3:AP:148:LYS:HG2	2.35	0.56
4:AV:79:LEU:HD12	4:AV:85:LEU:CD1	2.35	0.56
2:AX:115:LEU:HB2	2:AX:143:ILE:HD11	1.87	0.56
2:Ac:18:LYS:HE2	2:Ac:85:ASP:HB2	1.86	0.56
2:Ac:115:LEU:HB2	2:Ac:143:ILE:HD11	1.87	0.56
4:Af:78:THR:CG2	4:Af:84:THR:HB	2.34	0.56
2:Ah:125:ARG:HG2	2:Ah:125:ARG:HH11	1.69	0.56
2:Am:125:ARG:HH11	2:Am:125:ARG:HG2	1.70	0.56
2:Ar:125:ARG:HH11	2:Ar:125:ARG:HG2	1.69	0.56
4:Az:35:ARG:HD3	8:C0:84:ASP:HA	1.87	0.56
6:BI:18:ILE:HG21	6:BI:130:PHE:CD1	2.40	0.56
4:BJ:39:ALA:HB1	10:CJ:137:PHE:HZ	1.69	0.56
5:BM:144:ASP:HA	5:BM:147:LYS:HG2	1.87	0.56
6:BN:18:ILE:HG21	6:BN:130:PHE:CD1	2.40	0.56
4:BO:74:ILE:O	4:BO:78:THR:HG23	2.05	0.56
7:BQ:48:PRO:C	7:BQ:50:VAL:N	2.61	0.56
6:BS:18:ILE:HG21	6:BS:130:PHE:CD1	2.40	0.56
4:BT:41:VAL:HG23	4:BT:41:VAL:O	2.04	0.56
4:BT:74:ILE:O	4:BT:78:THR:HG23	2.05	0.56
7:Bf:48:PRO:C	7:Bf:50:VAL:N	2.61	0.56
6:Bh:18:ILE:HG21	6:Bh:130:PHE:CD1	2.40	0.56
7:Bk:48:PRO:C	7:Bk:50:VAL:N	2.61	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bm:18:ILE:HG21	6:Bm:130:PHE:CD1	2.40	0.56
5:Bq:144:ASP:HA	5:Bq:147:LYS:HG2	1.87	0.56
6:Br:18:ILE:HG21	6:Br:130:PHE:CD1	2.40	0.56
7:Bu:48:PRO:C	7:Bu:50:VAL:N	2.61	0.56
8:C0:176:ARG:HB2	8:C0:196:PHE:HB3	1.85	0.56
10:C2:115:ASP:CB	10:C2:121:ARG:HG3	2.35	0.56
10:C2:205:VAL:HG12	10:C2:212:VAL:HA	1.86	0.56
7:C3:48:PRO:C	7:C3:50:VAL:N	2.60	0.56
8:C5:18:ASN:CB	10:C7:16:LYS:HZ3	2.14	0.56
8:C5:118:THR:HG23	8:C5:119:SER:N	2.21	0.56
9:C6:31:LEU:O	9:C6:31:LEU:HD23	2.05	0.56
10:C7:114:PHE:CD1	10:C7:114:PHE:O	2.58	0.56
9:CD:87:LYS:HA	9:CD:95:GLU:OE2	2.04	0.56
9:CI:23:ARG:HH11	9:Ch:20:LEU:HD11	1.70	0.56
9:CI:137:ARG:HB2	9:CI:141:PHE:CB	2.32	0.56
10:CJ:99:THR:HB	10:CJ:195:TYR:OH	2.05	0.56
5:CL:49:ILE:O	5:CL:52:PRO:HD2	2.06	0.56
8:CM:31:ILE:HG23	9:CN:35:LEU:HD22	1.86	0.56
9:CN:31:LEU:O	9:CN:31:LEU:HD23	2.05	0.56
9:CN:147:LEU:N	9:CN:147:LEU:HD23	2.20	0.56
9:CN:160:GLU:HG2	9:CN:161:ASN:N	2.20	0.56
5:CQ:49:ILE:O	5:CQ:52:PRO:HD2	2.06	0.56
5:CQ:109:GLU:O	5:CQ:113:ILE:HG13	2.04	0.56
8:CR:168:ARG:HG2	8:CR:169:GLY:N	2.20	0.56
9:CS:17:ASN:CG	10:CT:17:LEU:HD11	2.26	0.56
9:CS:160:GLU:HG2	9:CS:161:ASN:N	2.20	0.56
10:CT:99:THR:HB	10:CT:195:TYR:OH	2.05	0.56
5:CV:49:ILE:O	5:CV:52:PRO:HD2	2.06	0.56
9:CX:34:LYS:C	10:CY:35:LEU:CD1	2.70	0.56
10:CY:115:ASP:CB	10:CY:121:ARG:HG3	2.35	0.56
8:Cb:74:PRO:HG3	10:Cd:217:ILE:HD11	1.86	0.56
8:Cb:118:THR:HG23	8:Cb:119:SER:N	2.21	0.56
9:Cc:87:LYS:HA	9:Cc:95:GLU:OE2	2.04	0.56
9:Cc:181:LEU:HB2	9:Cc:193:VAL:HG13	1.87	0.56
10:Cd:193:ASP:HB3	10:Cd:196:ASN:O	2.04	0.56
8:Cg:14:VAL:HG11	10:CI:13:ILE:CG2	2.11	0.56
8:Cg:105:THR:HG23	8:Cg:145:VAL:HG11	1.87	0.56
9:Cm:14:LEU:CD1	10:Cn:14:ILE:HB	2.28	0.56
5:Cp:49:ILE:O	5:Cp:52:PRO:HD2	2.06	0.56
8:Cq:31:ILE:HG23	9:Cr:35:LEU:HD22	1.86	0.56
5:Cu:49:ILE:O	5:Cu:52:PRO:HD2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Cu:109:GLU:O	5:Cu:113:ILE:HG13	2.04	0.56
8:Cv:168:ARG:HG2	8:Cv:169:GLY:N	2.20	0.56
9:Cw:17:ASN:CG	10:Cx:17:LEU:HD11	2.26	0.56
9:Cw:109:ASN:HB3	9:Cw:225:LEU:HD11	1.86	0.56
9:Cw:160:GLU:HG2	9:Cw:161:ASN:N	2.20	0.56
9:Cw:181:LEU:HB2	9:Cw:193:VAL:HG13	1.87	0.56
10:Cx:99:THR:HB	10:Cx:195:TYR:OH	2.05	0.56
5:Cz:49:ILE:O	5:Cz:52:PRO:HD2	2.06	0.56
4:AB:78:THR:CG2	4:AB:84:THR:HB	2.34	0.56
3:AF:66:PHE:O	3:AF:69:HIS:HB3	2.05	0.56
3:AK:145:ARG:CA	3:AK:148:LYS:HG2	2.35	0.56
2:AN:125:ARG:HH11	2:AN:125:ARG:HG2	1.69	0.56
4:AQ:35:ARG:HD3	8:CR:84:ASP:HA	1.87	0.56
4:AV:78:THR:CG2	4:AV:84:THR:HB	2.34	0.56
2:Am:18:LYS:HE2	2:Am:85:ASP:HB2	1.86	0.56
3:An:101:HIS:O	3:An:150:LEU:HD11	2.05	0.56
6:B1:83:LEU:HD11	5:Cz:71:GLN:HG2	1.87	0.56
4:B2:39:ALA:HB3	10:C2:137:PHE:HZ	1.71	0.56
6:B6:18:ILE:HG21	6:B6:130:PHE:CE1	2.41	0.56
7:BB:48:PRO:C	7:BB:50:VAL:N	2.61	0.56
7:BG:48:PRO:C	7:BG:50:VAL:N	2.61	0.56
4:BY:39:ALA:HB3	10:CY:137:PHE:HZ	1.71	0.56
6:Bc:18:ILE:HG21	6:Bc:130:PHE:CE1	2.41	0.56
6:Bw:18:ILE:HG21	6:Bw:130:PHE:CD1	2.40	0.56
8:C0:74:PRO:HG3	10:C2:217:ILE:HD11	1.86	0.56
8:C0:118:THR:HG23	8:C0:119:SER:N	2.20	0.56
8:C0:130:VAL:O	8:C0:130:VAL:HG13	2.04	0.56
9:C1:181:LEU:HB2	9:C1:193:VAL:HG13	1.87	0.56
8:C5:100:CYS:SG	8:C5:142:PRO:HB3	2.46	0.56
9:C6:147:LEU:HD23	9:C6:147:LEU:N	2.20	0.56
10:C7:193:ASP:HB3	10:C7:196:ASN:O	2.04	0.56
8:CC:21:ILE:HD13	10:CE:20:ARG:HD3	1.87	0.56
8:CC:100:CYS:SG	8:CC:142:PRO:HB3	2.46	0.56
8:CC:105:THR:HG23	8:CC:145:VAL:HG11	1.87	0.56
5:CG:49:ILE:O	5:CG:52:PRO:HD2	2.06	0.56
10:CJ:78:SER:OG	10:CJ:80:LEU:HG	2.06	0.56
8:CM:56:ASN:HB3	8:CM:199:GLY:O	2.02	0.56
9:CS:47:VAL:HG13	9:CS:48:SER:N	2.20	0.56
9:CS:66:THR:CG2	9:CS:76:CYS:HB3	2.27	0.56
9:CS:147:LEU:HD23	9:CS:147:LEU:N	2.20	0.56
8:CW:74:PRO:HG3	10:CY:217:ILE:HD11	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CW:118:THR:HG23	8:CW:119:SER:N	2.20	0.56
8:CW:176:ARG:HB2	8:CW:196:PHE:HB3	1.85	0.56
9:CX:181:LEU:HB2	9:CX:193:VAL:HG13	1.87	0.56
5:Ca:109:GLU:O	5:Ca:113:ILE:HG13	2.04	0.56
8:Cb:18:ASN:CB	10:Cd:16:LYS:HZ3	2.14	0.56
8:Cb:100:CYS:SG	8:Cb:142:PRO:HB3	2.46	0.56
9:Cc:147:LEU:HD23	9:Cc:147:LEU:N	2.20	0.56
10:Cd:114:PHE:CD1	10:Cd:114:PHE:O	2.58	0.56
8:Cg:100:CYS:SG	8:Cg:142:PRO:HB3	2.46	0.56
9:Ch:214:THR:HG21	9:Ch:216:HIS:HB2	1.86	0.56
5:Ck:49:ILE:O	5:Ck:52:PRO:HD2	2.06	0.56
9:Cr:147:LEU:HD23	9:Cr:147:LEU:N	2.20	0.56
9:Cr:160:GLU:HG2	9:Cr:161:ASN:N	2.20	0.56
9:Cr:214:THR:HG21	9:Cr:216:HIS:HB2	1.86	0.56
9:Cw:47:VAL:HG13	9:Cw:48:SER:N	2.20	0.56
2:A6:18:LYS:HE2	2:A6:85:ASP:HB2	1.86	0.56
3:Aj:101:HIS:O	3:Aj:150:LEU:HD11	2.05	0.56
3:Aj:66:PHE:O	3:Aj:69:HIS:HB3	2.05	0.56
3:Ay:145:ARG:CA	3:Ay:148:LYS:HG2	2.35	0.56
4:Az:79:LEU:HD12	4:Az:85:LEU:CD1	2.35	0.56
6:BN:93:HIS:ND1	5:CL:72:ARG:HD3	2.21	0.56
4:BO:76:ILE:O	4:BO:79:LEU:HG	2.06	0.56
5:BR:144:ASP:HA	5:BR:147:LYS:CG	2.35	0.56
4:BT:39:ALA:HB3	10:CT:137:PHE:HZ	1.71	0.56
6:BX:83:LEU:HD11	5:CV:71:GLN:HG2	1.87	0.56
6:Bc:18:ILE:HG21	6:Bc:130:PHE:CD1	2.40	0.56
6:Br:83:LEU:HD11	5:Cp:71:GLN:HG2	1.87	0.56
6:Br:93:HIS:ND1	5:Cp:72:ARG:HD3	2.21	0.56
4:Bs:76:ILE:O	4:Bs:79:LEU:HG	2.06	0.56
8:C5:168:ARG:HG2	8:C5:169:GLY:N	2.20	0.56
9:C6:47:VAL:HG13	9:C6:48:SER:N	2.20	0.56
9:CD:17:ASN:CG	10:CE:17:LEU:HD11	2.26	0.56
9:CD:34:LYS:HB3	10:CE:35:LEU:HG	1.86	0.56
8:CH:176:ARG:CB	8:CH:196:PHE:HB3	2.36	0.56
9:CI:42:ASP:HB2	9:CI:45:HIS:CB	2.36	0.56
9:CI:77:ILE:CG2	9:CI:82:VAL:HB	2.35	0.56
10:CJ:70:GLY:O	10:CJ:74:PRO:HA	2.04	0.56
8:CM:168:ARG:HG2	8:CM:169:GLY:N	2.20	0.56
9:CN:34:LYS:NZ	10:CO:32:GLU:CG	2.68	0.56
8:CR:105:THR:HG23	8:CR:145:VAL:HG11	1.87	0.56
9:Cc:47:VAL:HG13	9:Cc:48:SER:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:21:ILE:HD13	10:Ci:20:ARG:HD3	1.87	0.56
9:Ch:17:ASN:CG	10:Ci:17:LEU:HD11	2.26	0.56
9:Ch:34:LYS:HB3	10:Ci:35:LEU:HG	1.86	0.56
9:Ch:77:ILE:CG2	9:Ch:82:VAL:HB	2.35	0.56
9:Cm:42:ASP:HB2	9:Cm:45:HIS:CB	2.36	0.56
9:Cm:57:ILE:CG2	10:Cn:57:LEU:HD12	2.09	0.56
10:Cn:70:GLY:O	10:Cn:74:PRO:HA	2.04	0.56
10:Cn:78:SER:OG	10:Cn:80:LEU:HG	2.06	0.56
7:Co:129:ASP:OD1	7:Co:129:ASP:N	2.37	0.56
8:Cq:168:ARG:HG2	8:Cq:169:GLY:N	2.20	0.56
9:Cr:34:LYS:NZ	10:Cs:32:GLU:CG	2.68	0.56
10:Cs:78:SER:OG	10:Cs:80:LEU:HG	2.06	0.56
8:Cv:42:VAL:HG23	8:Cv:46:THR:CB	2.26	0.56
9:Cw:147:LEU:N	9:Cw:147:LEU:HD23	2.20	0.56
4:A4:78:THR:CG2	4:A4:84:THR:HB	2.34	0.56
2:AI:18:LYS:HE2	2:AI:85:ASP:HB2	1.86	0.56
3:AJ:23:TRP:HH2	3:AJ:75:ASN:HA	1.71	0.56
3:AU:145:ARG:CA	3:AU:148:LYS:HG2	2.35	0.56
2:AX:49:ILE:O	2:AX:52:PRO:HD2	2.04	0.56
4:Au:35:ARG:HD3	8:Cv:84:ASP:HA	1.87	0.56
4:Az:78:THR:CG2	4:Az:84:THR:HB	2.34	0.56
5:B0:144:ASP:HA	5:B0:147:LYS:CG	2.35	0.56
6:B6:18:ILE:HG21	6:B6:130:PHE:CD1	2.40	0.56
6:BN:18:ILE:HG21	6:BN:130:PHE:CE1	2.41	0.56
5:BR:110:PHE:HA	5:BR:113:ILE:HD12	1.86	0.56
6:BS:93:HIS:ND1	5:CQ:72:ARG:HD3	2.21	0.56
4:Bi:76:ILE:O	4:Bi:79:LEU:HG	2.06	0.56
6:Br:18:ILE:HG21	6:Br:130:PHE:CE1	2.41	0.56
7:Bu:18:GLN:HE22	7:Bu:132:ASP:H	1.53	0.56
5:Bv:144:ASP:HA	5:Bv:147:LYS:CG	2.35	0.56
6:Bw:93:HIS:ND1	5:Cu:72:ARG:HD3	2.21	0.56
4:Bx:39:ALA:HB3	10:Cx:137:PHE:HZ	1.71	0.56
9:C6:20:LEU:HD11	9:CN:23:ARG:HH11	1.70	0.56
9:C6:42:ASP:HB2	9:C6:45:HIS:CB	2.36	0.56
10:C7:78:SER:OG	10:C7:80:LEU:HG	2.06	0.56
9:CD:214:THR:HG21	9:CD:216:HIS:HB2	1.86	0.56
7:CF:129:ASP:OD1	7:CF:129:ASP:N	2.37	0.56
8:CM:14:VAL:HG22	10:CO:13:ILE:CG2	2.22	0.56
8:CM:21:ILE:HD13	10:CO:20:ARG:HD3	1.87	0.56
9:CN:214:THR:HG21	9:CN:216:HIS:HB2	1.86	0.56
10:CO:78:SER:OG	10:CO:80:LEU:HG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CW:130:VAL:O	8:CW:130:VAL:HG13	2.04	0.56
10:Cd:78:SER:OG	10:Cd:80:LEU:HG	2.06	0.56
8:Cl:176:ARG:CB	8:Cl:196:PHE:HB3	2.36	0.56
9:Cm:214:THR:HG21	9:Cm:216:HIS:HB2	1.86	0.56
8:Cq:21:ILE:HD13	10:Cs:20:ARG:HD3	1.87	0.56
8:Cq:130:VAL:O	8:Cq:130:VAL:HG13	2.04	0.56
8:Cv:105:THR:HG23	8:Cv:145:VAL:HG11	1.87	0.56
2:A1:49:ILE:O	2:A1:52:PRO:HD2	2.04	0.56
4:Aa:78:THR:CG2	4:Aa:84:THR:HB	2.34	0.56
2:Ah:115:LEU:HB2	2:Ah:143:ILE:HD11	1.87	0.56
3:Ai:23:TRP:HH2	3:Ai:75:ASN:HA	1.70	0.56
4:Ak:79:LEU:HD12	4:Ak:85:LEU:CD1	2.35	0.56
3:As:23:TRP:HH2	3:As:75:ASN:HA	1.70	0.56
4:Au:79:LEU:HD12	4:Au:85:LEU:CD1	2.35	0.56
5:B5:144:ASP:HA	5:B5:147:LYS:HG2	1.87	0.56
4:BE:76:ILE:O	4:BE:79:LEU:HG	2.06	0.56
6:BN:83:LEU:HD11	5:CL:71:GLN:HG2	1.87	0.56
7:BQ:18:GLN:HE22	7:BQ:132:ASP:H	1.53	0.56
6:BS:83:LEU:HD11	5:CQ:71:GLN:HG2	1.87	0.56
5:BW:144:ASP:HA	5:BW:147:LYS:CG	2.35	0.56
9:C1:34:LYS:NZ	10:C2:32:GLU:CG	2.68	0.56
5:C4:109:GLU:O	5:C4:113:ILE:HG13	2.04	0.56
9:C6:14:LEU:CD1	10:C7:14:ILE:HB	2.28	0.56
8:CC:43:ASP:C	8:CC:45:LYS:CB	2.76	0.56
9:CD:77:ILE:CG2	9:CD:82:VAL:HB	2.35	0.56
9:CI:31:LEU:O	9:CI:31:LEU:HD23	2.05	0.56
7:CK:129:ASP:OD1	7:CK:129:ASP:N	2.37	0.56
9:CN:42:ASP:HB2	9:CN:45:HIS:CB	2.36	0.56
8:CR:117:TRP:HB2	8:CR:121:GLU:H	1.71	0.56
9:CX:34:LYS:NZ	10:CY:32:GLU:CG	2.68	0.56
8:Cb:168:ARG:HG2	8:Cb:169:GLY:N	2.20	0.56
9:Cc:42:ASP:HB2	9:Cc:45:HIS:CB	2.36	0.56
9:Ch:79:ASP:OD2	9:Ch:175:ALA:HB3	2.04	0.56
7:Cj:129:ASP:OD1	7:Cj:129:ASP:N	2.37	0.56
9:Cm:31:LEU:O	9:Cm:31:LEU:HD23	2.05	0.56
9:Cm:77:ILE:CG2	9:Cm:82:VAL:HB	2.35	0.56
8:Cq:56:ASN:HB3	8:Cq:199:GLY:O	2.02	0.56
9:Cr:42:ASP:HB2	9:Cr:45:HIS:CB	2.36	0.56
8:Cv:100:CYS:SG	8:Cv:142:PRO:HB3	2.46	0.56
8:Cv:117:TRP:HB2	8:Cv:121:GLU:H	1.71	0.56
2:AD:18:LYS:HE2	2:AD:85:ASP:HB2	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:35:ARG:HD3	8:CH:84:ASP:HA	1.87	0.56
4:AG:79:LEU:HD12	4:AG:85:LEU:CD1	2.35	0.56
4:AL:78:THR:HG21	4:AL:84:THR:HG22	1.88	0.56
3:AO:23:TRP:HH2	3:AO:75:ASN:HA	1.70	0.56
2:AS:115:LEU:HB2	2:AS:143:ILE:HD11	1.87	0.56
4:AK:35:ARG:HD3	8:CI:84:ASP:HA	1.87	0.56
3:AN:23:TRP:HH2	3:AN:75:ASN:HA	1.71	0.56
4:AP:78:THR:HG21	4:AP:84:THR:HG22	1.88	0.56
4:AU:41:VAL:HG23	4:AU:41:VAL:O	2.06	0.56
2:AW:115:LEU:HB2	2:AW:143:ILE:HD11	1.87	0.56
4:B7:76:ILE:O	4:B7:79:LEU:HG	2.06	0.56
6:BI:27:PHE:CD2	7:CF:27:GLU:HG3	2.40	0.56
4:BJ:76:ILE:CA	4:BJ:79:LEU:HD23	2.25	0.56
7:BL:18:GLN:HE22	7:BL:132:ASP:H	1.53	0.56
5:BB:144:ASP:HA	5:BB:147:LYS:HG2	1.87	0.56
4:BD:76:ILE:O	4:BD:79:LEU:HG	2.06	0.56
5:BV:110:PHE:HA	5:BV:113:ILE:HD12	1.86	0.56
4:BY:78:THR:HG22	7:BZ:72:LEU:CD1	2.36	0.56
9:C6:13:ARG:CZ	10:C7:14:ILE:CG1	2.83	0.56
5:CB:83:MET:SD	5:CB:89:MET:HE2	2.46	0.56
8:CC:118:THR:HG23	8:CC:119:SER:N	2.20	0.56
9:CD:79:ASP:OD2	9:CD:175:ALA:HB3	2.04	0.56
9:CI:214:THR:HG21	9:CI:216:HIS:HB2	1.86	0.56
10:CJ:115:ASP:CB	10:CJ:121:ARG:HG3	2.35	0.56
8:CR:100:CYS:SG	8:CR:142:PRO:HB3	2.46	0.56
9:CS:16:ALA:C	9:CS:18:ALA:H	2.14	0.56
5:CV:83:MET:SD	5:CV:89:MET:HE2	2.46	0.56
9:CX:13:ARG:CZ	10:CY:14:ILE:CG1	2.83	0.56
10:CY:45:ARG:HB3	10:CY:45:ARG:HH11	1.71	0.56
9:Cc:13:ARG:CZ	10:Cd:14:ILE:CG1	2.83	0.56
9:Cc:14:LEU:CD1	10:Cd:14:ILE:HB	2.28	0.56
5:Cf:83:MET:SD	5:Cf:89:MET:HE2	2.46	0.56
8:Cg:118:THR:HG23	8:Cg:119:SER:N	2.20	0.56
9:Ch:16:ALA:C	9:Ch:18:ALA:H	2.14	0.56
8:CI:51:LYS:HZ2	10:Cn:46:LYS:HE3	1.71	0.56
8:Cq:117:TRP:HB2	8:Cq:121:GLU:H	1.71	0.56
8:Cv:130:VAL:O	8:Cv:130:VAL:HG13	2.04	0.56
9:Cw:16:ALA:C	9:Cw:18:ALA:H	2.14	0.56
5:Cz:83:MET:SD	5:Cz:89:MET:HE2	2.46	0.56
3:A3:145:ARG:CA	3:A3:148:LYS:HG2	2.35	0.56
2:AD:115:LEU:HB2	2:AD:143:ILE:HD11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AE:23:TRP:HH2	3:AE:75:ASN:HA	1.70	0.56
4:AQ:41:VAL:O	4:AQ:41:VAL:HG23	2.06	0.56
4:AQ:79:LEU:HD12	4:AQ:85:LEU:CD1	2.35	0.56
3:AY:101:HIS:O	3:AY:150:LEU:HD11	2.05	0.56
5:B0:144:ASP:HA	5:B0:147:LYS:HG2	1.87	0.56
4:BF:123:ARG:HD3	4:BF:123:ARG:H	1.71	0.56
6:BI:18:ILE:HG21	6:BI:130:PHE:CE1	2.41	0.56
4:BU:78:THR:HG22	7:BV:72:LEU:CD1	2.36	0.56
5:BW:144:ASP:HA	5:BW:147:LYS:HG2	1.87	0.56
4:BY:74:ILE:O	4:BY:78:THR:HG23	2.05	0.56
4:Bn:76:ILE:O	4:Bn:79:LEU:HG	2.06	0.56
7:Bp:18:GLN:HE22	7:Bp:132:ASP:H	1.53	0.56
6:Bw:83:LEU:HD11	5:Cu:71:GLN:HG2	1.87	0.56
8:C0:93:SER:O	8:C0:96:ASP:HB3	2.06	0.56
10:C2:45:ARG:HB3	10:C2:45:ARG:HH11	1.71	0.56
8:C5:93:SER:O	8:C5:96:ASP:HB3	2.06	0.56
10:C7:45:ARG:HB3	10:C7:45:ARG:HH11	1.71	0.56
8:CC:93:SER:O	8:CC:96:ASP:HB3	2.06	0.56
9:CD:16:ALA:C	9:CD:18:ALA:H	2.14	0.56
10:CE:115:ASP:CB	10:CE:121:ARG:HG3	2.35	0.56
8:CH:43:ASP:C	8:CH:45:LYS:CB	2.76	0.56
8:CM:100:CYS:SG	8:CM:142:PRO:HB3	2.46	0.56
8:CM:117:TRP:HB2	8:CM:121:GLU:H	1.71	0.56
8:CM:130:VAL:O	8:CM:130:VAL:HG13	2.04	0.56
10:CO:115:ASP:CB	10:CO:121:ARG:HG3	2.35	0.56
8:CW:93:SER:O	8:CW:96:ASP:HB3	2.06	0.56
8:Cb:93:SER:O	8:Cb:96:ASP:HB3	2.06	0.56
9:Cc:20:LEU:HD11	9:Cr:23:ARG:HH11	1.70	0.56
8:Cg:43:ASP:C	8:Cg:45:LYS:CB	2.76	0.56
8:Cl:118:THR:HG23	8:Cl:119:SER:N	2.20	0.56
8:Cq:100:CYS:SG	8:Cq:142:PRO:HB3	2.46	0.56
10:Cs:115:ASP:CB	10:Cs:121:ARG:HG3	2.35	0.56
9:Cw:42:ASP:HB2	9:Cw:45:HIS:CB	2.36	0.56
3:A2:101:HIS:O	3:A2:150:LEU:HD11	2.05	0.56
4:AB:8:GLU:CD	4:AB:8:GLU:H	2.14	0.56
3:AT:38:VAL:HA	3:AT:122:VAL:HG21	1.88	0.56
3:Ad:23:TRP:HH2	3:Ad:75:ASN:HA	1.70	0.56
4:BA:123:ARG:HD3	4:BA:123:ARG:H	1.71	0.56
6:BD:27:PHE:CD2	7:CA:27:GLU:HG3	2.40	0.56
4:BJ:76:ILE:O	4:BJ:79:LEU:HG	2.06	0.56
7:BV:18:GLN:HE22	7:BV:132:ASP:H	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BX:18:ILE:HG21	6:BX:130:PHE:CE1	2.41	0.56
4:Be:123:ARG:HD3	4:Be:123:ARG:H	1.71	0.56
6:Bh:27:PHE:CD2	7:Ce:27:GLU:HG3	2.40	0.56
4:Bj:123:ARG:HD3	4:Bj:123:ARG:H	1.71	0.56
6:Bm:18:ILE:HG21	6:Bm:130:PHE:CE1	2.41	0.56
4:Bt:78:THR:HG22	7:Bu:72:LEU:CD1	2.36	0.56
7:Bz:18:GLN:HE22	7:Bz:132:ASP:H	1.53	0.56
8:C0:100:CYS:SG	8:C0:142:PRO:HB3	2.46	0.56
9:C1:13:ARG:CZ	10:C2:14:ILE:CG1	2.83	0.56
9:C6:34:LYS:NZ	10:C7:32:GLU:CG	2.68	0.56
8:CC:14:VAL:HG11	10:CE:13:ILE:CG2	2.11	0.56
8:CC:176:ARG:CB	8:CC:196:PHE:HB3	2.36	0.56
5:CG:83:MET:SD	5:CG:89:MET:HE2	2.46	0.56
8:CH:118:THR:HG23	8:CH:119:SER:N	2.20	0.56
8:CH:168:ARG:HG2	8:CH:169:GLY:N	2.20	0.56
9:CI:57:ILE:CG2	10:CJ:57:LEU:HD12	2.09	0.56
5:CL:125:ARG:HH11	5:CL:125:ARG:HG2	1.71	0.56
5:CQ:84:LEU:CD1	5:CQ:90:LEU:HD13	2.32	0.56
8:CR:42:VAL:HG23	8:CR:46:THR:CB	2.26	0.56
9:CS:42:ASP:HB2	9:CS:45:HIS:CB	2.36	0.56
10:CT:63:ASP:N	10:CT:66:GLU:HB2	2.08	0.56
8:CW:100:CYS:SG	8:CW:142:PRO:HB3	2.46	0.56
10:CY:50:LEU:HD23	10:CY:50:LEU:C	2.31	0.56
9:Cc:34:LYS:NZ	10:Cd:32:GLU:CG	2.68	0.56
10:Cd:45:ARG:HB3	10:Cd:45:ARG:HH11	1.71	0.56
8:Cg:93:SER:O	8:Cg:96:ASP:HB3	2.06	0.56
5:Ck:83:MET:SD	5:Ck:89:MET:HE2	2.46	0.56
8:Cl:168:ARG:HG2	8:Cl:169:GLY:N	2.20	0.56
5:Cp:83:MET:SD	5:Cp:89:MET:HE2	2.46	0.56
5:Cp:125:ARG:HH11	5:Cp:125:ARG:HG2	1.71	0.56
8:Cq:118:THR:HG23	8:Cq:119:SER:N	2.21	0.56
9:Cr:16:ALA:C	9:Cr:18:ALA:H	2.14	0.56
10:Cx:115:ASP:CB	10:Cx:121:ARG:HG3	2.35	0.56
2:A1:125:ARG:HH11	2:A1:125:ARG:HG2	1.70	0.55
3:A2:38:VAL:HA	3:A2:122:VAL:HG21	1.88	0.55
3:A7:23:TRP:HH2	3:A7:75:ASN:HA	1.70	0.55
3:AA:66:PHE:O	3:AA:69:HIS:HB3	2.05	0.55
4:AB:41:VAL:O	4:AB:41:VAL:HG23	2.06	0.55
4:AG:41:VAL:HG23	4:AG:41:VAL:O	2.06	0.55
4:AQ:8:GLU:CD	4:AQ:8:GLU:H	2.14	0.55
3:AT:102:ILE:HA	3:AT:150:LEU:CD2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AY:38:VAL:HA	3:AY:122:VAL:HG21	1.88	0.55
3:AZ:145:ARG:CA	3:AZ:148:LYS:HG2	2.35	0.55
4:Af:8:GLU:CD	4:Af:8:GLU:H	2.14	0.55
4:Af:41:VAL:HG23	4:Af:41:VAL:O	2.06	0.55
2:Ah:18:LYS:HE2	2:Ah:85:ASP:HB2	1.85	0.55
4:Au:8:GLU:CD	4:Au:8:GLU:H	2.14	0.55
3:Ax:38:VAL:HA	3:Ax:122:VAL:HG21	1.88	0.55
3:Ax:102:ILE:HA	3:Ax:150:LEU:CD2	2.37	0.55
6:B1:18:ILE:HG21	6:B1:130:PHE:CE1	2.41	0.55
4:B2:74:ILE:O	4:B2:78:THR:HG23	2.05	0.55
4:BP:78:THR:HG22	7:BQ:72:LEU:CD1	2.36	0.55
4:BU:123:ARG:HD3	4:BU:123:ARG:H	1.71	0.55
4:Bd:110:LYS:HG3	4:Bd:134:ILE:CG2	2.36	0.55
4:By:123:ARG:HD3	4:By:123:ARG:H	1.71	0.55
9:C1:47:VAL:HG13	9:C1:48:SER:N	2.20	0.55
10:C2:50:LEU:HD23	10:C2:50:LEU:C	2.31	0.55
10:C2:112:VAL:HG22	10:C2:113:CYS:N	2.22	0.55
5:C4:49:ILE:O	5:C4:52:PRO:HD2	2.06	0.55
9:C6:130:ILE:HD11	9:C6:193:VAL:HG21	1.88	0.55
5:CB:49:ILE:O	5:CB:52:PRO:HD2	2.06	0.55
10:CE:78:SER:OG	10:CE:80:LEU:HG	2.06	0.55
5:CL:83:MET:SD	5:CL:89:MET:HE2	2.46	0.55
8:CM:118:THR:HG23	8:CM:119:SER:N	2.21	0.55
10:CO:21:THR:O	10:CO:24:ILE:HG22	2.07	0.55
8:CR:176:ARG:CB	8:CR:196:PHE:HB3	2.36	0.55
9:CS:31:LEU:O	9:CS:31:LEU:HD23	2.05	0.55
10:CT:115:ASP:CB	10:CT:121:ARG:HG3	2.35	0.55
9:CX:47:VAL:HG13	9:CX:48:SER:N	2.20	0.55
9:Ch:31:LEU:HD23	9:Ch:31:LEU:O	2.05	0.55
9:Ch:147:LEU:N	9:Ch:147:LEU:HD23	2.20	0.55
9:Ch:203:GLU:HG3	9:Ch:225:LEU:H	1.71	0.55
10:Cs:21:THR:O	10:Cs:24:ILE:HG22	2.07	0.55
8:Cv:176:ARG:CB	8:Cv:196:PHE:HB3	2.36	0.55
4:AB:35:ARG:HD3	8:CC:84:ASP:HA	1.87	0.55
1:AC:129:ASP:N	1:AC:129:ASP:OD1	2.39	0.55
3:AO:38:VAL:HA	3:AO:122:VAL:HG21	1.88	0.55
2:AX:125:ARG:HH11	2:AX:125:ARG:HG2	1.70	0.55
4:Aa:41:VAL:O	4:Aa:41:VAL:HG23	2.06	0.55
1:Ag:129:ASP:OD1	1:Ag:129:ASP:N	2.39	0.55
4:Ak:41:VAL:O	4:Ak:41:VAL:HG23	2.06	0.55
3:An:102:ILE:HA	3:An:150:LEU:CD2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Au:78:THR:HG21	4:Au:84:THR:HG22	1.88	0.55
2:Aw:125:ARG:HH11	2:Aw:125:ARG:HG2	1.69	0.55
5:B0:125:ARG:HH11	5:B0:125:ARG:HG2	1.71	0.55
4:B3:78:THR:HG22	7:B4:72:LEU:CD1	2.36	0.55
5:B5:125:ARG:HH11	5:B5:125:ARG:HG2	1.71	0.55
4:B7:110:LYS:HG3	4:B7:134:ILE:CG2	2.36	0.55
7:BB:18:GLN:HE22	7:BB:132:ASP:H	1.53	0.55
5:BH:144:ASP:HA	5:BH:147:LYS:HG2	1.87	0.55
5:BR:125:ARG:HH11	5:BR:125:ARG:HG2	1.72	0.55
5:BW:125:ARG:HH11	5:BW:125:ARG:HG2	1.71	0.55
6:BX:18:ILE:HG21	6:BX:130:PHE:CD1	2.40	0.55
4:BZ:78:THR:HG22	7:Ba:72:LEU:CD1	2.36	0.55
5:Bb:125:ARG:HH11	5:Bb:125:ARG:HG2	1.71	0.55
6:Bc:83:LEU:HD11	5:Ca:71:GLN:HG2	1.87	0.55
7:Bf:18:GLN:HE22	7:Bf:132:ASP:H	1.53	0.55
6:Bh:93:HIS:ND1	5:Cf:72:ARG:HD3	2.21	0.55
4:Bo:78:THR:HG22	7:Bp:72:LEU:CD1	2.36	0.55
8:C0:172:ASN:HD22	8:C0:172:ASN:C	2.10	0.55
8:C0:176:ARG:CB	8:C0:196:PHE:HB3	2.36	0.55
10:C7:115:ASP:CB	10:C7:121:ARG:HG3	2.35	0.55
9:CD:147:LEU:HD23	9:CD:147:LEU:N	2.20	0.55
10:CE:21:THR:O	10:CE:24:ILE:HG22	2.07	0.55
8:CH:93:SER:O	8:CH:96:ASP:HB3	2.06	0.55
10:CJ:112:VAL:HG22	10:CJ:113:CYS:N	2.22	0.55
8:CW:176:ARG:CB	8:CW:196:PHE:HB3	2.36	0.55
10:CY:112:VAL:HG22	10:CY:113:CYS:N	2.22	0.55
5:Ca:49:ILE:O	5:Ca:52:PRO:HD2	2.06	0.55
9:Cc:130:ILE:HD11	9:Cc:193:VAL:HG21	1.88	0.55
8:Cg:176:ARG:CB	8:Cg:196:PHE:HB3	2.36	0.55
10:Ci:21:THR:O	10:Ci:24:ILE:HG22	2.07	0.55
10:Ci:78:SER:OG	10:Ci:80:LEU:HG	2.06	0.55
8:Cl:43:ASP:C	8:Cl:45:LYS:CB	2.76	0.55
9:Cm:203:GLU:HG3	9:Cm:225:LEU:H	1.71	0.55
10:Cn:112:VAL:HG22	10:Cn:113:CYS:N	2.22	0.55
9:Cr:24:LEU:CD2	10:Cs:24:ILE:HG23	2.18	0.55
9:Cw:31:LEU:HD23	9:Cw:31:LEU:O	2.05	0.55
4:A4:8:GLU:CD	4:A4:8:GLU:H	2.14	0.55
4:A4:41:VAL:O	4:A4:41:VAL:HG23	2.06	0.55
3:AE:38:VAL:HA	3:AE:122:VAL:HG21	1.88	0.55
3:AJ:102:ILE:HA	3:AJ:150:LEU:CD2	2.37	0.55
4:AQ:78:THR:HG21	4:AQ:84:THR:HG22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AS:80:THR:O	2:AS:84:LEU:HD13	2.07	0.55
2:AS:125:ARG:HH11	2:AS:125:ARG:HG2	1.69	0.55
4:Aa:78:THR:HG21	4:Aa:84:THR:HG22	1.88	0.55
3:Ae:66:PHE:O	3:Ae:69:HIS:HB3	2.05	0.55
4:Af:35:ARG:HD3	8:Cg:84:ASP:HA	1.87	0.55
3:Ai:38:VAL:HA	3:Ai:122:VAL:HG21	1.88	0.55
3:An:38:VAL:HA	3:An:122:VAL:HG21	1.88	0.55
4:Ap:35:ARG:HD3	8:Cq:84:ASP:HA	1.87	0.55
3:As:38:VAL:HA	3:As:122:VAL:HG21	1.88	0.55
2:Aw:80:THR:O	2:Aw:84:LEU:HD13	2.07	0.55
4:Az:110:LYS:HG3	4:Az:134:ILE:CG2	2.34	0.55
6:B1:11:ASP:CG	6:B1:137:ARG:HH21	2.15	0.55
6:B1:18:ILE:HG21	6:B1:130:PHE:CD1	2.40	0.55
6:B1:93:HIS:ND1	5:Cz:72:ARG:HD3	2.21	0.55
4:B7:39:ALA:HB3	10:C7:137:PHE:HZ	1.71	0.55
6:BD:93:HIS:ND1	5:CB:72:ARG:HD3	2.21	0.55
4:BK:78:THR:HG22	7:BL:72:LEU:CD1	2.36	0.55
7:BL:48:PRO:C	7:BL:50:VAL:N	2.61	0.55
6:Bh:18:ILE:HG21	6:Bh:130:PHE:CE1	2.41	0.55
4:Bn:76:ILE:CA	4:Bn:79:LEU:HD23	2.25	0.55
5:Bv:125:ARG:HH11	5:Bv:125:ARG:HG2	1.72	0.55
5:C4:115:LEU:HB2	5:C4:143:ILE:HD11	1.89	0.55
8:C5:176:ARG:CB	8:C5:196:PHE:HB3	2.36	0.55
9:CD:31:LEU:O	9:CD:31:LEU:HD23	2.05	0.55
9:CD:130:ILE:HD11	9:CD:193:VAL:HG21	1.88	0.55
9:CD:203:GLU:HG3	9:CD:225:LEU:H	1.71	0.55
8:CH:56:ASN:O	8:CH:199:GLY:CA	2.51	0.55
8:CH:100:CYS:SG	8:CH:142:PRO:HB3	2.46	0.55
8:CH:131:THR:O	8:CH:149:ALA:HB1	2.07	0.55
9:CI:147:LEU:HD23	9:CI:147:LEU:N	2.20	0.55
9:CI:203:GLU:HG3	9:CI:225:LEU:H	1.71	0.55
8:CM:176:ARG:CB	8:CM:196:PHE:HB3	2.36	0.55
8:CR:70:ARG:HB3	8:CR:93:SER:HB3	1.89	0.55
8:CW:56:ASN:HB3	8:CW:199:GLY:O	2.02	0.55
8:CW:117:TRP:HB2	8:CW:121:GLU:H	1.71	0.55
5:Ca:115:LEU:HB2	5:Ca:143:ILE:HD11	1.89	0.55
10:Cd:115:ASP:CB	10:Cd:121:ARG:HG3	2.35	0.55
5:Cf:49:ILE:O	5:Cf:52:PRO:HD2	2.06	0.55
9:Ch:130:ILE:HD11	9:Ch:193:VAL:HG21	1.88	0.55
8:Cl:73:VAL:HG12	8:Cl:74:PRO:HD2	1.88	0.55
8:Cl:93:SER:O	8:Cl:96:ASP:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cl:100:CYS:SG	8:Cl:142:PRO:HB3	2.46	0.55
9:Cm:147:LEU:HD23	9:Cm:147:LEU:N	2.20	0.55
9:Cm:160:GLU:HG2	9:Cm:161:ASN:N	2.20	0.55
8:Cq:176:ARG:CB	8:Cq:196:PHE:HB3	2.36	0.55
5:Cu:84:LEU:CD1	5:Cu:90:LEU:HD13	2.32	0.55
8:Cv:70:ARG:HB3	8:Cv:93:SER:HB3	1.89	0.55
9:Cw:57:ILE:HD12	10:Cx:57:LEU:HD12	1.81	0.55
10:Cx:63:ASP:N	10:Cx:66:GLU:HB2	2.08	0.55
2:A1:80:THR:O	2:A1:84:LEU:HD13	2.07	0.55
3:A3:15:ILE:HD11	3:A3:134:ALA:O	2.07	0.55
4:A4:78:THR:HG21	4:A4:84:THR:HG22	1.88	0.55
4:A4:110:LYS:HG3	4:A4:134:ILE:CG2	2.34	0.55
3:AJ:38:VAL:HA	3:AJ:122:VAL:HG21	1.88	0.55
4:AL:8:GLU:CD	4:AL:8:GLU:H	2.14	0.55
3:AO:101:HIS:O	3:AO:150:LEU:HD11	2.05	0.55
4:AV:110:LYS:HG3	4:AV:134:ILE:CG2	2.34	0.55
2:AX:80:THR:O	2:AX:84:LEU:HD13	2.07	0.55
4:Ak:110:LYS:HG3	4:Ak:134:ILE:CG2	2.34	0.55
4:Ap:8:GLU:CD	4:Ap:8:GLU:H	2.14	0.55
6:B6:83:LEU:HD11	5:C4:71:GLN:HG2	1.87	0.55
6:BD:18:ILE:HG21	6:BD:130:PHE:CE1	2.41	0.55
6:BX:11:ASP:CG	6:BX:137:ARG:HH21	2.15	0.55
6:BX:93:HIS:ND1	5:CV:72:ARG:HD3	2.21	0.55
4:Bd:39:ALA:HB3	10:Cd:137:PHE:HZ	1.71	0.55
5:Bg:83:MET:HG3	5:Bg:93:GLN:HG2	1.89	0.55
5:Bl:144:ASP:HA	5:Bl:147:LYS:HG2	1.87	0.55
6:Bw:18:ILE:HG21	6:Bw:130:PHE:CE1	2.41	0.55
8:C0:70:ARG:HB3	8:C0:93:SER:HB3	1.89	0.55
8:C0:117:TRP:HB2	8:C0:121:GLU:H	1.71	0.55
9:C1:160:GLU:HG2	9:C1:161:ASN:N	2.20	0.55
10:CE:102:THR:HG21	10:CE:144:LEU:HD21	1.89	0.55
10:CE:197:PHE:CB	10:CE:199:ARG:HB3	2.31	0.55
8:CH:73:VAL:HG12	8:CH:74:PRO:HD2	1.88	0.55
9:CI:16:ALA:C	9:CI:18:ALA:H	2.14	0.55
9:CN:16:ALA:C	9:CN:18:ALA:H	2.14	0.55
9:CS:57:ILE:HD12	10:CT:57:LEU:HD12	1.81	0.55
9:CX:16:ALA:C	9:CX:18:ALA:H	2.14	0.55
9:CX:50:ILE:CD1	10:CY:50:LEU:HD22	2.35	0.55
8:Cb:176:ARG:CB	8:Cb:196:PHE:HB3	2.36	0.55
10:Ci:102:THR:HG21	10:Ci:144:LEU:HD21	1.89	0.55
8:Cl:117:TRP:HB2	8:Cl:121:GLU:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cl:131:THR:O	8:Cl:149:ALA:HB1	2.07	0.55
9:Cm:57:ILE:CD1	10:Cn:54:VAL:HG13	2.25	0.55
2:A6:80:THR:O	2:A6:84:LEU:HD13	2.07	0.55
2:AI:80:THR:O	2:AI:84:LEU:HD13	2.07	0.55
3:AK:38:VAL:HA	3:AK:122:VAL:HG21	1.89	0.55
4:AL:35:ARG:HD3	8:CM:84:ASP:HA	1.87	0.55
2:AN:115:LEU:HB2	2:AN:143:ILE:HD11	1.87	0.55
3:AP:15:ILE:HD11	3:AP:134:ALA:O	2.07	0.55
3:AU:15:ILE:HD11	3:AU:134:ALA:O	2.07	0.55
3:AZ:15:ILE:HD11	3:AZ:134:ALA:O	2.07	0.55
4:Aa:8:GLU:CD	4:Aa:8:GLU:H	2.14	0.55
3:As:101:HIS:O	3:As:150:LEU:HD11	2.05	0.55
3:At:15:ILE:HD11	3:At:134:ALA:O	2.07	0.55
3:Ay:15:ILE:HD11	3:Ay:134:ALA:O	2.07	0.55
6:B1:28:THR:O	6:B1:31:ARG:HG2	2.07	0.55
5:BC:83:MET:HG3	5:BC:93:GLN:HG2	1.89	0.55
6:BN:28:THR:O	6:BN:31:ARG:HG2	2.07	0.55
6:BX:28:THR:O	6:BX:31:ARG:HG2	2.07	0.55
5:Bg:144:ASP:HA	5:Bg:147:LYS:HG2	1.87	0.55
7:Bp:48:PRO:C	7:Bp:50:VAL:N	2.61	0.55
8:C0:131:THR:O	8:C0:149:ALA:HB1	2.07	0.55
9:C1:50:ILE:CD1	10:C2:50:LEU:HD22	2.35	0.55
9:C6:160:GLU:HG2	9:C6:161:ASN:N	2.20	0.55
10:C7:93:GLU:C	10:C7:95:GLU:H	2.15	0.55
5:CB:84:LEU:CD1	5:CB:90:LEU:HD13	2.32	0.55
9:CD:116:THR:HA	9:CD:125:ASP:CG	2.32	0.55
9:CD:160:GLU:HG2	9:CD:161:ASN:N	2.20	0.55
10:CE:93:GLU:C	10:CE:95:GLU:H	2.15	0.55
8:CH:117:TRP:HB2	8:CH:121:GLU:H	1.71	0.55
9:CI:17:ASN:CG	10:CJ:17:LEU:HD11	2.26	0.55
9:CI:160:GLU:HG2	9:CI:161:ASN:N	2.20	0.55
8:CM:42:VAL:HG23	8:CM:46:THR:HG1	1.71	0.55
8:CM:73:VAL:HG12	8:CM:74:PRO:HD2	1.88	0.55
9:CN:57:ILE:HD12	10:CO:57:LEU:HD12	1.81	0.55
8:CW:70:ARG:HB3	8:CW:93:SER:HB3	1.89	0.55
8:CW:131:THR:O	8:CW:149:ALA:HB1	2.07	0.55
8:CW:168:ARG:HG2	8:CW:169:GLY:N	2.20	0.55
9:CX:160:GLU:HG2	9:CX:161:ASN:N	2.20	0.55
10:CY:78:SER:OG	10:CY:80:LEU:HG	2.06	0.55
10:Cd:93:GLU:C	10:Cd:95:GLU:H	2.15	0.55
5:Cf:84:LEU:CD1	5:Cf:90:LEU:HD13	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ch:116:THR:HA	9:Ch:125:ASP:CG	2.32	0.55
9:Ch:160:GLU:HG2	9:Ch:161:ASN:N	2.20	0.55
8:Cl:56:ASN:O	8:Cl:199:GLY:CA	2.51	0.55
8:Cq:73:VAL:HG12	8:Cq:74:PRO:HD2	1.88	0.55
3:AE:102:ILE:HA	3:AE:150:LEU:CD2	2.37	0.55
4:AG:110:LYS:HG3	4:AG:134:ILE:CG2	2.34	0.55
4:AL:110:LYS:HG3	4:AL:134:ILE:CG2	2.34	0.55
3:AY:102:ILE:HA	3:AY:150:LEU:CD2	2.37	0.55
4:Aa:35:ARG:HD3	8:Cb:84:ASP:HA	1.87	0.55
4:Aa:110:LYS:HG3	4:Aa:134:ILE:CG2	2.34	0.55
2:Ac:80:THR:O	2:Ac:84:LEU:HD13	2.07	0.55
2:Am:80:THR:O	2:Am:84:LEU:HD13	2.07	0.55
3:Ao:22:VAL:CG1	3:Ao:127:LEU:HD22	2.25	0.55
3:Ao:38:VAL:HA	3:Ao:122:VAL:HG21	1.89	0.55
2:Ar:115:LEU:HB2	2:Ar:143:ILE:HD11	1.87	0.55
6:B1:27:PHE:CD2	7:Cy:27:GLU:HG3	2.40	0.55
7:B4:18:GLN:HE22	7:B4:132:ASP:H	1.53	0.55
5:BC:144:ASP:HA	5:BC:147:LYS:HG2	1.87	0.55
6:BS:18:ILE:HG21	6:BS:130:PHE:CE1	2.41	0.55
7:Ba:18:GLN:HE22	7:Ba:132:ASP:H	1.53	0.55
6:Bm:93:HIS:ND1	5:Ck:72:ARG:HD3	2.21	0.55
6:Br:11:ASP:CG	6:Br:137:ARG:HH21	2.15	0.55
6:Br:28:THR:O	6:Br:31:ARG:HG2	2.07	0.55
8:C0:168:ARG:HG2	8:C0:169:GLY:N	2.20	0.55
9:C1:130:ILE:HD11	9:C1:193:VAL:HG21	1.88	0.55
10:C2:78:SER:OG	10:C2:80:LEU:HG	2.06	0.55
5:C4:83:MET:SD	5:C4:89:MET:HE2	2.46	0.55
7:CA:33:ILE:HG13	7:CA:72:LEU:HD21	1.89	0.55
5:CG:125:ARG:HH11	5:CG:125:ARG:HG2	1.71	0.55
9:CN:24:LEU:CD2	10:CO:24:ILE:HG23	2.18	0.55
9:CN:138:ARG:N	9:CN:141:PHE:HB2	2.21	0.55
5:CQ:125:ARG:HH11	5:CQ:125:ARG:HG2	1.71	0.55
8:CR:93:SER:O	8:CR:96:ASP:HB3	2.06	0.55
9:CS:107:ALA:CB	9:CS:132:ILE:HG21	2.37	0.55
10:CT:50:LEU:C	10:CT:50:LEU:HD23	2.31	0.55
5:Ca:83:MET:SD	5:Ca:89:MET:HE2	2.46	0.55
8:Cb:144:ARG:O	8:Cb:144:ARG:HD2	2.07	0.55
7:Ce:33:ILE:HG13	7:Ce:72:LEU:HD21	1.89	0.55
8:Cg:131:THR:O	8:Cg:149:ALA:HB1	2.07	0.55
10:Ci:93:GLU:C	10:Ci:95:GLU:H	2.15	0.55
8:Cl:105:THR:HG23	8:Cl:145:VAL:HG11	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:57:ILE:HD12	10:Cs:57:LEU:HD12	1.81	0.55
5:Cu:115:LEU:HB2	5:Cu:143:ILE:HD11	1.89	0.55
5:Cu:125:ARG:HH11	5:Cu:125:ARG:HG2	1.71	0.55
8:Cv:82:PHE:CD1	8:Cv:83:CYS:HA	2.40	0.55
8:Cv:93:SER:O	8:Cv:96:ASP:HB3	2.06	0.55
9:Cw:107:ALA:CB	9:Cw:132:ILE:HG21	2.37	0.55
3:A2:102:ILE:HA	3:A2:150:LEU:CD2	2.37	0.55
4:A4:35:ARG:HD3	8:C5:84:ASP:HA	1.87	0.55
3:AK:22:VAL:CG1	3:AK:127:LEU:HD22	2.25	0.55
4:AV:41:VAL:HG23	4:AV:41:VAL:O	2.06	0.55
4:Ap:110:LYS:HG3	4:Ap:134:ILE:CG2	2.34	0.55
3:At:38:VAL:HA	3:At:122:VAL:HG21	1.89	0.55
4:Az:41:VAL:O	4:Az:41:VAL:HG23	2.06	0.55
4:B2:76:ILE:O	4:B2:79:LEU:HG	2.06	0.55
7:BG:18:GLN:HE22	7:BG:132:ASP:H	1.53	0.55
6:BI:93:HIS:ND1	5:CG:72:ARG:HD3	2.21	0.55
6:BN:11:ASP:CG	6:BN:137:ARG:HH21	2.15	0.55
4:BO:39:ALA:HB3	10:CO:137:PHE:HZ	1.71	0.55
6:BX:27:PHE:CD2	7:CU:27:GLU:HG3	2.40	0.55
4:Be:8:GLU:CD	4:Be:8:GLU:H	2.15	0.55
7:Bk:18:GLN:HE22	7:Bk:132:ASP:H	1.53	0.55
4:By:91:HIS:ND1	7:Bz:73:ARG:HD2	2.22	0.55
8:C0:56:ASN:HB3	8:C0:199:GLY:O	2.02	0.55
9:C1:16:ALA:C	9:C1:18:ALA:H	2.14	0.55
9:C1:24:LEU:CD2	10:C2:24:ILE:HG23	2.18	0.55
9:C1:38:ALA:CA	10:C2:35:LEU:CD1	2.77	0.55
9:C1:201:ASP:HB2	9:C1:204:ARG:NE	2.15	0.55
8:C5:144:ARG:O	8:C5:144:ARG:HD2	2.07	0.55
8:CC:82:PHE:CZ	8:CC:94:ASP:HB3	2.37	0.55
8:CC:87:LYS:HG2	8:CC:94:ASP:OD1	2.07	0.55
8:CC:131:THR:O	8:CC:149:ALA:HB1	2.07	0.55
5:CQ:115:LEU:HB2	5:CQ:143:ILE:HD11	1.89	0.55
9:CX:130:ILE:HD11	9:CX:193:VAL:HG21	1.88	0.55
9:Cc:160:GLU:HG2	9:Cc:161:ASN:N	2.20	0.55
10:Cd:112:VAL:HG22	10:Cd:113:CYS:N	2.22	0.55
8:Cg:87:LYS:HG2	8:Cg:94:ASP:OD1	2.07	0.55
10:Ci:197:PHE:CB	10:Ci:199:ARG:HB3	2.31	0.55
9:Cr:138:ARG:N	9:Cr:141:PHE:HB2	2.21	0.55
10:Cs:45:ARG:HB3	10:Cs:45:ARG:HH11	1.71	0.55
9:Cw:116:THR:HA	9:Cw:125:ASP:CG	2.32	0.55
10:Cx:112:VAL:HG22	10:Cx:113:CYS:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A7:102:ILE:HA	3:A7:150:LEU:CD2	2.37	0.55
3:AA:20:ASP:O	3:AA:24:SER:HB2	2.07	0.55
3:AP:38:VAL:HA	3:AP:122:VAL:HG21	1.89	0.55
3:Ae:20:ASP:O	3:Ae:24:SER:HB2	2.07	0.55
3:Ai:102:ILE:HA	3:Ai:150:LEU:CD2	2.37	0.55
4:Ap:41:VAL:O	4:Ap:41:VAL:HG23	2.06	0.55
3:Ax:101:HIS:O	3:Ax:150:LEU:HD11	2.05	0.55
4:Az:8:GLU:CD	4:Az:8:GLU:H	2.14	0.55
5:B5:83:MET:HG3	5:B5:93:GLN:HG2	1.88	0.55
4:BA:8:GLU:CD	4:BA:8:GLU:H	2.15	0.55
4:BA:78:THR:HG22	7:BB:72:LEU:CD1	2.36	0.55
5:BC:125:ARG:HH11	5:BC:125:ARG:HG2	1.72	0.55
4:BF:91:HIS:ND1	7:BG:73:ARG:HD2	2.22	0.55
6:BI:28:THR:O	6:BI:31:ARG:HG2	2.07	0.55
4:BP:91:HIS:ND1	7:BQ:73:ARG:HD2	2.22	0.55
6:BS:11:ASP:CG	6:BS:137:ARG:HH21	2.15	0.55
4:BU:91:HIS:ND1	7:BV:73:ARG:HD2	2.22	0.55
4:BY:76:ILE:O	4:BY:79:LEU:HG	2.06	0.55
6:Bc:38:VAL:HA	6:Bc:122:VAL:HG21	1.89	0.55
4:Bj:78:THR:HG22	7:Bk:72:LEU:CD1	2.36	0.55
6:Bw:11:ASP:CG	6:Bw:137:ARG:HH21	2.15	0.55
4:Bx:76:ILE:O	4:Bx:79:LEU:HG	2.06	0.55
10:C2:21:THR:O	10:C2:24:ILE:HG22	2.07	0.55
9:C6:116:THR:HA	9:C6:125:ASP:CG	2.32	0.55
10:C7:50:LEU:C	10:C7:50:LEU:HD23	2.31	0.55
10:C7:112:VAL:HG22	10:C7:113:CYS:N	2.22	0.55
8:CC:73:VAL:HG12	8:CC:74:PRO:HD2	1.88	0.55
7:CF:9:GLU:HB2	9:CI:119:GLY:O	2.07	0.55
8:CH:105:THR:HG23	8:CH:145:VAL:HG11	1.87	0.55
5:CL:84:LEU:CD1	5:CL:90:LEU:HD13	2.32	0.55
10:CO:45:ARG:HB3	10:CO:45:ARG:HH11	1.71	0.55
5:CQ:83:MET:SD	5:CQ:89:MET:HE2	2.46	0.55
8:CR:42:VAL:HG23	8:CR:46:THR:HG1	1.72	0.55
8:CR:82:PHE:CD1	8:CR:83:CYS:HA	2.40	0.55
9:CS:24:LEU:CD2	10:CT:24:ILE:HG23	2.18	0.55
9:CS:116:THR:HA	9:CS:125:ASP:CG	2.32	0.55
9:CX:38:ALA:CA	10:CY:35:LEU:CD1	2.77	0.55
10:CY:21:THR:O	10:CY:24:ILE:HG22	2.07	0.55
9:Cc:23:ARG:HH11	9:Cr:20:LEU:HD11	1.70	0.55
9:Cc:116:THR:HA	9:Cc:125:ASP:CG	2.32	0.55
8:Cg:73:VAL:HG12	8:Cg:74:PRO:HD2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:82:PHE:CZ	8:Cg:94:ASP:HB3	2.37	0.55
8:Cg:144:ARG:O	8:Cg:144:ARG:HD2	2.07	0.55
5:Ck:125:ARG:HH11	5:Ck:125:ARG:HG2	1.71	0.55
8:Cl:87:LYS:HG2	8:Cl:94:ASP:OD1	2.07	0.55
9:Cm:16:ALA:C	9:Cm:18:ALA:H	2.14	0.55
8:Cq:131:THR:O	8:Cq:149:ALA:HB1	2.07	0.55
5:Cu:83:MET:SD	5:Cu:89:MET:HE2	2.46	0.55
10:Cx:50:LEU:HD23	10:Cx:50:LEU:C	2.31	0.55
2:AN:101:HIS:CE1	2:AN:146:ILE:HG21	2.42	0.55
2:AS:101:HIS:CE1	2:AS:146:ILE:HG21	2.42	0.55
4:AV:8:GLU:CD	4:AV:8:GLU:H	2.14	0.55
3:Ad:102:ILE:HA	3:Ad:150:LEU:CD2	2.37	0.55
4:Af:78:THR:HG21	4:Af:84:THR:HG22	1.88	0.55
2:Ar:101:HIS:CE1	2:Ar:146:ILE:HG21	2.42	0.55
2:Aw:101:HIS:CE1	2:Aw:146:ILE:HG21	2.42	0.55
6:B6:11:ASP:CG	6:B6:137:ARG:HH21	2.15	0.55
6:B6:28:THR:O	6:B6:31:ARG:HG2	2.07	0.55
6:B6:38:VAL:HA	6:B6:122:VAL:HG21	1.89	0.55
4:BK:123:ARG:HD3	4:BK:123:ARG:H	1.71	0.55
4:BT:76:ILE:O	4:BT:79:LEU:HG	2.06	0.55
5:Bb:83:MET:HG3	5:Bb:93:GLN:HG2	1.88	0.55
4:Be:78:THR:HG22	7:Bf:72:LEU:CD1	2.36	0.55
5:Bg:125:ARG:HH11	5:Bg:125:ARG:HG2	1.72	0.55
4:Bj:91:HIS:ND1	7:Bk:73:ARG:HD2	2.22	0.55
6:Bm:28:THR:O	6:Bm:31:ARG:HG2	2.07	0.55
6:Br:27:PHE:CD2	7:Co:27:GLU:HG3	2.40	0.55
4:Bs:39:ALA:HB3	10:Cs:137:PHE:HZ	1.71	0.55
4:Bt:91:HIS:ND1	7:Bu:73:ARG:HD2	2.22	0.55
10:C2:93:GLU:C	10:C2:95:GLU:H	2.15	0.55
7:C3:9:GLU:HB2	9:C6:119:GLY:O	2.07	0.55
8:CC:144:ARG:O	8:CC:144:ARG:HD2	2.07	0.55
9:CD:34:LYS:C	10:CE:35:LEU:CD1	2.70	0.55
8:CH:51:LYS:HZ2	10:CJ:46:LYS:HE3	1.72	0.55
8:CH:87:LYS:HG2	8:CH:94:ASP:OD1	2.07	0.55
9:CI:57:ILE:CD1	10:CJ:54:VAL:HG13	2.25	0.55
9:CI:138:ARG:N	9:CI:141:PHE:HB2	2.21	0.55
8:CM:43:ASP:C	8:CM:45:LYS:CB	2.76	0.55
8:CM:93:SER:O	8:CM:96:ASP:HB3	2.06	0.55
8:CM:105:THR:HG23	8:CM:145:VAL:HG11	1.87	0.55
8:CM:131:THR:O	8:CM:149:ALA:HB1	2.07	0.55
10:CT:112:VAL:HG22	10:CT:113:CYS:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CZ:9:GLU:HB2	9:Cc:119:GLY:O	2.07	0.55
10:Cd:50:LEU:C	10:Cd:50:LEU:HD23	2.31	0.55
7:Cj:9:GLU:HB2	9:Cm:119:GLY:O	2.07	0.55
5:Cp:115:LEU:HB2	5:Cp:143:ILE:HD11	1.89	0.55
9:Cr:116:THR:HA	9:Cr:125:ASP:CG	2.32	0.55
8:Cv:144:ARG:O	8:Cv:144:ARG:HD2	2.07	0.55
3:A3:102:ILE:HG12	3:A3:150:LEU:CB	2.37	0.55
3:A7:38:VAL:HA	3:A7:122:VAL:HG21	1.88	0.55
4:AB:78:THR:HG21	4:AB:84:THR:HG22	1.88	0.55
4:AG:78:THR:HG21	4:AG:84:THR:HG22	1.88	0.55
3:AK:15:ILE:HD11	3:AK:134:ALA:O	2.07	0.55
4:AL:41:VAL:O	4:AL:41:VAL:HG23	2.06	0.55
2:AN:80:THR:O	2:AN:84:LEU:HD13	2.07	0.55
3:AT:101:HIS:O	3:AT:150:LEU:HD11	2.05	0.55
3:Ao:145:ARG:CA	3:Ao:148:LYS:HG2	2.35	0.55
2:Ar:80:THR:O	2:Ar:84:LEU:HD13	2.07	0.55
4:BF:78:THR:HG22	7:BG:72:LEU:CD1	2.36	0.55
6:Bc:28:THR:O	6:Bc:31:ARG:HG2	2.07	0.55
4:Bo:123:ARG:HD3	4:Bo:123:ARG:H	1.71	0.55
9:C1:107:ALA:CB	9:C1:132:ILE:HG21	2.37	0.55
9:C1:137:ARG:HB2	9:C1:141:PHE:CB	2.32	0.55
8:C5:23:TYR:HE2	8:CH:15:LYS:HE2	1.61	0.55
8:C5:44:LYS:HE3	10:C7:46:LYS:HZ2	1.72	0.55
9:CD:138:ARG:N	9:CD:141:PHE:HB2	2.21	0.55
10:CE:146:VAL:HG21	10:CE:178:ILE:HD13	1.90	0.55
9:CI:42:ASP:N	10:CJ:38:ARG:HH22	1.90	0.55
5:CL:115:LEU:HB2	5:CL:143:ILE:HD11	1.89	0.55
9:CN:116:THR:HA	9:CN:125:ASP:CG	2.32	0.55
8:CR:144:ARG:O	8:CR:144:ARG:HD2	2.07	0.55
10:CT:21:THR:O	10:CT:24:ILE:HG22	2.07	0.55
8:CW:144:ARG:O	8:CW:144:ARG:HD2	2.07	0.55
8:CW:172:ASN:HD22	8:CW:172:ASN:C	2.10	0.55
9:CX:107:ALA:CB	9:CX:132:ILE:HG21	2.37	0.55
10:CY:93:GLU:C	10:CY:95:GLU:H	2.15	0.55
8:Cb:21:ILE:HD13	10:Cd:20:ARG:HD3	1.87	0.55
8:Cb:44:LYS:HE3	10:Cd:46:LYS:HZ2	1.71	0.55
8:Cb:70:ARG:HB3	8:Cb:93:SER:HB3	1.89	0.55
10:Cd:21:THR:O	10:Cd:24:ILE:HG22	2.07	0.55
9:Ch:34:LYS:C	10:CI:35:LEU:CD1	2.70	0.55
10:CI:146:VAL:HG21	10:CI:178:ILE:HD13	1.90	0.55
10:Cn:21:THR:O	10:Cn:24:ILE:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Cp:84:LEU:CD1	5:Cp:90:LEU:HD13	2.32	0.55
10:Cx:21:THR:O	10:Cx:24:ILE:HG22	2.07	0.55
2:A1:101:HIS:CE1	2:A1:146:ILE:HG21	2.42	0.54
1:A5:137:LYS:HD3	6:B6:6:CYS:SG	2.47	0.54
3:AO:102:ILE:HA	3:AO:150:LEU:CD2	2.37	0.54
4:AQ:110:LYS:HG3	4:AQ:134:ILE:CG2	2.34	0.54
3:AZ:102:ILE:HG12	3:AZ:150:LEU:CB	2.37	0.54
1:Ab:137:LYS:HD3	6:Bc:6:CYS:SG	2.47	0.54
3:Ad:38:VAL:HA	3:Ad:122:VAL:HG21	1.88	0.54
3:Ae:15:ILE:HD11	3:Ae:134:ALA:O	2.07	0.54
3:Ae:145:ARG:CA	3:Ae:148:LYS:HG2	2.35	0.54
3:Ao:15:ILE:HD11	3:Ao:134:ALA:O	2.07	0.54
4:Au:110:LYS:HG3	4:Au:134:ILE:CG2	2.34	0.54
4:B3:64:HIS:O	4:B3:68:VAL:HG23	2.07	0.54
4:BZ:64:HIS:O	4:BZ:68:VAL:HG23	2.07	0.54
7:Bp:129:ASP:OD1	7:Bp:129:ASP:N	2.36	0.54
8:C0:87:LYS:HG2	8:C0:94:ASP:OD1	2.07	0.54
8:C5:70:ARG:HB3	8:C5:93:SER:HB3	1.89	0.54
9:C6:23:ARG:HH11	9:CN:20:LEU:HD11	1.70	0.54
9:C6:203:GLU:HG3	9:C6:225:LEU:H	1.71	0.54
10:C7:21:THR:O	10:C7:24:ILE:HG22	2.07	0.54
5:CL:57:ARG:HH11	5:CL:57:ARG:HG2	1.73	0.54
9:CS:17:ASN:ND2	10:CT:17:LEU:HD11	2.22	0.54
7:CU:9:GLU:HB2	9:CX:119:GLY:O	2.07	0.54
9:CX:201:ASP:HB2	9:CX:204:ARG:NE	2.15	0.54
9:Ch:138:ARG:N	9:Ch:141:PHE:HB2	2.21	0.54
9:Cm:138:ARG:N	9:Cm:141:PHE:HB2	2.21	0.54
10:Cn:102:THR:HG21	10:Cn:144:LEU:HD21	1.89	0.54
7:Co:9:GLU:HB2	9:Cr:119:GLY:O	2.07	0.54
5:Cp:57:ARG:HH11	5:Cp:57:ARG:HG2	1.73	0.54
8:Cq:93:SER:O	8:Cq:96:ASP:HB3	2.06	0.54
8:Cq:105:THR:HG23	8:Cq:145:VAL:HG11	1.87	0.54
8:Cq:144:ARG:O	8:Cq:144:ARG:HD2	2.07	0.54
8:Cv:51:LYS:HZ2	10:Cx:46:LYS:HE3	1.71	0.54
9:Cw:17:ASN:ND2	10:Cx:17:LEU:HD11	2.22	0.54
7:Cy:33:ILE:HG13	7:Cy:72:LEU:HD21	1.89	0.54
5:Cz:115:LEU:HB2	5:Cz:143:ILE:HD11	1.89	0.54
3:AA:15:ILE:HD11	3:AA:134:ALA:O	2.07	0.54
2:AX:101:HIS:CE1	2:AX:146:ILE:HG21	2.42	0.54
4:Ak:78:THR:HG21	4:Ak:84:THR:HG22	1.88	0.54
4:Az:78:THR:HG21	4:Az:84:THR:HG22	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B3:123:ARG:HD3	4:B3:123:ARG:H	1.71	0.54
6:BI:38:VAL:HA	6:BI:122:VAL:HG21	1.89	0.54
6:BN:27:PHE:CD2	7:CK:27:GLU:HG3	2.40	0.54
5:BR:144:ASP:HA	5:BR:147:LYS:HG2	1.87	0.54
6:Bc:11:ASP:CG	6:Bc:137:ARG:HH21	2.15	0.54
6:Bm:11:ASP:CG	6:Bm:137:ARG:HH21	2.15	0.54
5:Bv:144:ASP:HA	5:Bv:147:LYS:HG2	1.87	0.54
8:C0:144:ARG:O	8:C0:144:ARG:HD2	2.07	0.54
9:C1:119:GLY:O	7:Cy:9:GLU:HB2	2.07	0.54
9:C6:16:ALA:C	9:C6:18:ALA:H	2.14	0.54
10:CE:50:LEU:C	10:CE:50:LEU:HD23	2.31	0.54
9:CI:178:ARG:NH2	9:CI:180:ILE:HD11	2.23	0.54
10:CJ:21:THR:O	10:CJ:24:ILE:HG22	2.07	0.54
7:CK:9:GLU:HB2	9:CN:119:GLY:O	2.07	0.54
8:CM:70:ARG:HB3	8:CM:93:SER:HB3	1.89	0.54
10:CO:146:VAL:HG21	10:CO:178:ILE:HD13	1.89	0.54
9:CS:138:ARG:N	9:CS:141:PHE:HB2	2.21	0.54
10:CT:195:TYR:N	10:CT:195:TYR:CD1	2.75	0.54
7:CU:33:ILE:HG13	7:CU:72:LEU:HD21	1.89	0.54
8:CW:87:LYS:HG2	8:CW:94:ASP:OD1	2.07	0.54
9:CX:24:LEU:CD2	10:CY:24:ILE:HG23	2.18	0.54
5:Cf:115:LEU:HB2	5:Cf:143:ILE:HD11	1.89	0.54
8:Cg:148:ARG:HG3	8:Cg:148:ARG:NH1	2.22	0.54
9:Ch:42:ASP:HB2	9:Ch:45:HIS:CB	2.36	0.54
10:Ci:50:LEU:HD23	10:Ci:50:LEU:C	2.31	0.54
9:Cm:116:THR:HA	9:Cm:125:ASP:CG	2.32	0.54
9:Cm:178:ARG:NH2	9:Cm:180:ILE:HD11	2.23	0.54
8:Cv:105:THR:HG23	8:Cv:145:VAL:HG13	1.89	0.54
9:Cw:138:ARG:N	9:Cw:141:PHE:HB2	2.21	0.54
10:Cx:146:VAL:HG21	10:Cx:178:ILE:HD13	1.90	0.54
3:AA:145:ARG:CA	3:AA:148:LYS:HG2	2.35	0.54
1:AC:137:LYS:HD3	6:BD:6:CYS:SG	2.47	0.54
2:AD:101:HIS:CE1	2:AD:146:ILE:HG21	2.42	0.54
1:Ag:137:LYS:HD3	6:Bh:6:CYS:SG	2.47	0.54
2:Ah:80:THR:O	2:Ah:84:LEU:HD13	2.07	0.54
1:Al:137:LYS:HD3	6:Bm:6:CYS:SG	2.47	0.54
3:As:102:ILE:HA	3:As:150:LEU:CD2	2.37	0.54
6:B6:22:VAL:HG11	6:B6:123:LEU:HD22	1.90	0.54
4:BE:39:ALA:HB3	10:CE:137:PHE:HZ	1.71	0.54
4:BP:123:ARG:HD3	4:BP:123:ARG:H	1.71	0.54
4:BZ:8:GLU:CD	4:BZ:8:GLU:H	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:123:ARG:HD3	4:BZ:123:ARG:H	1.71	0.54
5:Bl:83:MET:HG3	5:Bl:93:GLN:HG2	1.89	0.54
6:Bm:38:VAL:HA	6:Bm:122:VAL:HG21	1.89	0.54
8:C0:18:ASN:C	10:C2:20:ARG:HH12	2.15	0.54
8:C0:105:THR:HG23	8:C0:145:VAL:HG13	1.89	0.54
9:C1:178:ARG:NH2	9:C1:180:ILE:HD11	2.23	0.54
10:C2:197:PHE:CB	10:C2:199:ARG:HB3	2.31	0.54
8:C5:131:THR:O	8:C5:149:ALA:HB1	2.07	0.54
5:CB:115:LEU:HB2	5:CB:143:ILE:HD11	1.89	0.54
8:CC:148:ARG:HG3	8:CC:148:ARG:NH1	2.22	0.54
5:CG:57:ARG:HH11	5:CG:57:ARG:HG2	1.73	0.54
9:CI:116:THR:HA	9:CI:125:ASP:CG	2.32	0.54
9:CI:130:ILE:HD11	9:CI:193:VAL:HG21	1.88	0.54
10:CJ:102:THR:HG21	10:CJ:144:LEU:HD21	1.89	0.54
8:CM:144:ARG:O	8:CM:144:ARG:HD2	2.07	0.54
9:CN:109:ASN:HB3	9:CN:225:LEU:HD11	1.86	0.54
8:CR:87:LYS:HG2	8:CR:94:ASP:OD1	2.07	0.54
9:CS:130:ILE:HD11	9:CS:193:VAL:HG21	1.88	0.54
10:CT:78:SER:OG	10:CT:80:LEU:HG	2.06	0.54
10:CT:146:VAL:HG21	10:CT:178:ILE:HD13	1.90	0.54
5:CV:115:LEU:HB2	5:CV:143:ILE:HD11	1.89	0.54
5:CV:125:ARG:HH11	5:CV:125:ARG:HG2	1.71	0.54
8:CW:18:ASN:C	10:CY:20:ARG:HH12	2.15	0.54
8:CW:105:THR:HG23	8:CW:145:VAL:HG13	1.89	0.54
9:CX:137:ARG:HB2	9:CX:141:PHE:CB	2.32	0.54
9:CX:178:ARG:NH2	9:CX:180:ILE:HD11	2.23	0.54
10:CY:197:PHE:CB	10:CY:199:ARG:HB3	2.31	0.54
8:Cb:73:VAL:HG12	8:Cb:74:PRO:HD2	1.88	0.54
8:Cb:131:THR:O	8:Cb:149:ALA:HB1	2.07	0.54
9:Cc:203:GLU:HG3	9:Cc:225:LEU:H	1.71	0.54
9:Cm:42:ASP:N	10:Cn:38:ARG:HH22	1.90	0.54
9:Cm:130:ILE:HD11	9:Cm:193:VAL:HG21	1.88	0.54
10:Cn:115:ASP:CB	10:Cn:121:ARG:HG3	2.35	0.54
8:Cq:70:ARG:HB3	8:Cq:93:SER:HB3	1.89	0.54
9:Cr:203:GLU:HG3	9:Cr:225:LEU:H	1.71	0.54
10:Cs:146:VAL:HG21	10:Cs:178:ILE:HD13	1.89	0.54
8:Cv:21:ILE:HD13	10:Cx:20:ARG:HD3	1.87	0.54
9:Cw:130:ILE:HD11	9:Cw:193:VAL:HG21	1.88	0.54
10:Cx:195:TYR:N	10:Cx:195:TYR:CD1	2.75	0.54
5:Cz:125:ARG:HH11	5:Cz:125:ARG:HG2	1.71	0.54
1:AH:137:LYS:HD3	6:BI:6:CYS:SG	2.47	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:101:HIS:CE1	2:AI:146:ILE:HG21	2.42	0.54
3:AK:20:ASP:O	3:AK:24:SER:HB2	2.07	0.54
4:AV:78:THR:HG21	4:AV:84:THR:HG22	1.88	0.54
2:Ah:101:HIS:CE1	2:Ah:146:ILE:HG21	2.42	0.54
4:B3:8:GLU:CD	4:B3:8:GLU:H	2.15	0.54
4:BE:76:ILE:CA	4:BE:79:LEU:HD23	2.25	0.54
5:BH:84:LEU:HA	5:BH:90:LEU:HD22	1.90	0.54
6:BI:11:ASP:CG	6:BI:137:ARG:HH21	2.15	0.54
4:BJ:39:ALA:HB3	10:CJ:137:PHE:HZ	1.71	0.54
5:BM:83:MET:HG3	5:BM:93:GLN:HG2	1.88	0.54
6:BN:38:VAL:HA	6:BN:122:VAL:HG21	1.89	0.54
6:Bc:22:VAL:HG11	6:Bc:123:LEU:HD22	1.90	0.54
6:Bc:27:PHE:CD2	7:CZ:27:GLU:HG3	2.40	0.54
6:Bc:93:HIS:ND1	5:Ca:72:ARG:HD3	2.21	0.54
4:Bj:8:GLU:CD	4:Bj:8:GLU:H	2.15	0.54
5:Bl:84:LEU:HA	5:Bl:90:LEU:HD22	1.90	0.54
4:Bo:91:HIS:ND1	7:Bp:73:ARG:HD2	2.22	0.54
6:Br:38:VAL:HA	6:Br:122:VAL:HG21	1.89	0.54
4:Bt:123:ARG:HD3	4:Bt:123:ARG:H	1.71	0.54
6:Bw:38:VAL:HA	6:Bw:122:VAL:HG21	1.89	0.54
9:C1:138:ARG:N	9:C1:141:PHE:HB2	2.21	0.54
8:C5:73:VAL:HG12	8:C5:74:PRO:HD2	1.88	0.54
9:CD:42:ASP:HB2	9:CD:45:HIS:CB	2.36	0.54
10:CJ:93:GLU:C	10:CJ:95:GLU:H	2.15	0.54
9:CN:14:LEU:CD1	10:CO:14:ILE:HB	2.28	0.54
9:CN:203:GLU:HG3	9:CN:225:LEU:H	1.71	0.54
8:CR:21:ILE:HD13	10:CT:20:ARG:HD3	1.87	0.54
8:CR:73:VAL:HG12	8:CR:74:PRO:HD2	1.88	0.54
8:CR:105:THR:HG23	8:CR:145:VAL:HG13	1.89	0.54
8:Cb:87:LYS:HG2	8:Cb:94:ASP:OD1	2.07	0.54
9:Cc:16:ALA:C	9:Cc:18:ALA:H	2.14	0.54
9:Cc:38:ALA:CA	10:Cd:35:LEU:CD1	2.77	0.54
7:Ce:9:GLU:HB2	9:Ch:119:GLY:O	2.07	0.54
8:Cg:18:ASN:C	10:Ci:20:ARG:HH12	2.15	0.54
8:Cg:117:TRP:HB2	8:Cg:121:GLU:H	1.71	0.54
5:Ck:57:ARG:HH11	5:Ck:57:ARG:HG2	1.73	0.54
8:Cl:144:ARG:O	8:Cl:144:ARG:HD2	2.07	0.54
9:Cr:14:LEU:CD1	10:Cs:14:ILE:HB	2.28	0.54
8:Cv:73:VAL:HG12	8:Cv:74:PRO:HD2	1.88	0.54
8:Cv:87:LYS:HG2	8:Cv:94:ASP:OD1	2.07	0.54
9:Cw:137:ARG:CB	9:Cw:141:PHE:HB3	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A6:101:HIS:CE1	2:A6:146:ILE:HG21	2.42	0.54
2:AD:80:THR:O	2:AD:84:LEU:HD13	2.07	0.54
3:AF:38:VAL:HA	3:AF:122:VAL:HG21	1.89	0.54
3:AF:102:ILE:HG12	3:AF:150:LEU:CB	2.38	0.54
4:AG:8:GLU:CD	4:AG:8:GLU:H	2.14	0.54
2:AI:108:PRO:HB3	2:AI:147:LYS:HD3	1.89	0.54
3:AP:125:GLN:HB3	4:AQ:7:LEU:HD13	1.90	0.54
1:AW:137:LYS:HD3	6:BX:6:CYS:SG	2.47	0.54
2:Ac:101:HIS:CE1	2:Ac:146:ILE:HG21	2.42	0.54
3:Aj:102:ILE:HG12	3:Aj:150:LEU:CB	2.38	0.54
2:Am:101:HIS:CE1	2:Am:146:ILE:HG21	2.42	0.54
3:Ao:20:ASP:O	3:Ao:24:SER:HB2	2.07	0.54
1:Aq:137:LYS:HD3	6:Br:6:CYS:SG	2.47	0.54
3:At:125:GLN:HB3	4:Au:7:LEU:HD13	1.90	0.54
6:B1:22:VAL:HG11	6:B1:123:LEU:HD22	1.90	0.54
4:B3:91:HIS:ND1	7:B4:73:ARG:HD2	2.22	0.54
6:B6:27:PHE:CD2	7:C3:27:GLU:HG3	2.40	0.54
4:BA:64:HIS:O	4:BA:68:VAL:HG23	2.08	0.54
4:BE:64:HIS:O	4:BE:68:VAL:HG23	2.07	0.54
5:BH:83:MET:HG3	5:BH:93:GLN:HG2	1.89	0.54
6:BI:22:VAL:HG11	6:BI:123:LEU:HD22	1.90	0.54
4:BK:91:HIS:ND1	7:BL:73:ARG:HD2	2.22	0.54
6:BS:38:VAL:HA	6:BS:122:VAL:HG21	1.89	0.54
6:BX:22:VAL:HG11	6:BX:123:LEU:HD22	1.90	0.54
6:Bh:38:VAL:HA	6:Bh:122:VAL:HG21	1.89	0.54
4:Bi:64:HIS:O	4:Bi:68:VAL:HG23	2.07	0.54
5:Bl:125:ARG:HH11	5:Bl:125:ARG:HG2	1.71	0.54
6:Bm:22:VAL:HG11	6:Bm:123:LEU:HD22	1.90	0.54
6:Br:22:VAL:HG11	6:Br:123:LEU:HD22	1.90	0.54
9:C1:116:THR:HA	9:C1:125:ASP:CG	2.32	0.54
8:C5:87:LYS:HG2	8:C5:94:ASP:OD1	2.07	0.54
9:C6:38:ALA:CA	10:C7:35:LEU:CD1	2.77	0.54
9:C6:137:ARG:HB2	9:C6:141:PHE:CB	2.32	0.54
5:CB:125:ARG:HH11	5:CB:125:ARG:HG2	1.71	0.54
8:CC:18:ASN:C	10:CE:20:ARG:HH12	2.15	0.54
8:CC:70:ARG:HB3	8:CC:93:SER:HB3	1.89	0.54
8:CC:117:TRP:HB2	8:CC:121:GLU:H	1.71	0.54
10:CJ:50:LEU:HD23	10:CJ:50:LEU:C	2.31	0.54
8:CM:56:ASN:HB2	8:CM:198:LEU:O	2.08	0.54
8:CR:56:ASN:O	8:CR:199:GLY:CA	2.51	0.54
9:CS:13:ARG:CZ	10:CT:14:ILE:CG1	2.83	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CS:203:GLU:HG3	9:CS:225:LEU:H	1.71	0.54
9:CX:116:THR:HA	9:CX:125:ASP:CG	2.32	0.54
9:CX:203:GLU:HG3	9:CX:225:LEU:H	1.71	0.54
8:Cb:117:TRP:HB2	8:Cb:121:GLU:H	1.71	0.54
9:Cc:138:ARG:N	9:Cc:141:PHE:HB2	2.21	0.54
8:Cg:70:ARG:HB3	8:Cg:93:SER:HB3	1.89	0.54
10:Cn:50:LEU:HD23	10:Cn:50:LEU:C	2.31	0.54
10:Cn:93:GLU:C	10:Cn:95:GLU:H	2.15	0.54
8:Cq:43:ASP:C	8:Cq:45:LYS:CB	2.76	0.54
8:Cq:56:ASN:HB2	8:Cq:198:LEU:O	2.08	0.54
10:Cs:50:LEU:C	10:Cs:50:LEU:HD23	2.31	0.54
10:Cx:78:SER:OG	10:Cx:80:LEU:HG	2.06	0.54
1:A0:137:LYS:HD3	6:B1:6:CYS:SG	2.47	0.54
3:AA:102:ILE:HG12	3:AA:150:LEU:CB	2.38	0.54
3:AF:145:ARG:CA	3:AF:148:LYS:HG2	2.35	0.54
1:AM:137:LYS:HD3	6:BN:6:CYS:SG	2.47	0.54
3:AP:20:ASP:O	3:AP:24:SER:HB2	2.07	0.54
3:Ae:102:ILE:HG12	3:Ae:150:LEU:CB	2.38	0.54
3:Aj:38:VAL:HA	3:Aj:122:VAL:HG21	1.89	0.54
3:Aj:145:ARG:CA	3:Aj:148:LYS:HG2	2.35	0.54
2:Am:108:PRO:HB3	2:Am:147:LYS:HD3	1.89	0.54
3:At:20:ASP:O	3:At:24:SER:HB2	2.07	0.54
5:B0:115:LEU:HB2	5:B0:143:ILE:HD11	1.90	0.54
4:B2:56:THR:HA	4:B2:61:PHE:CD2	2.43	0.54
6:B6:93:HIS:ND1	5:C4:72:ARG:HD3	2.21	0.54
6:BD:11:ASP:CG	6:BD:137:ARG:HH21	2.15	0.54
6:BD:22:VAL:HG11	6:BD:123:LEU:HD22	1.90	0.54
7:BG:88:PRO:HG2	7:BG:89:PRO:HD3	1.90	0.54
5:BH:125:ARG:HH11	5:BH:125:ARG:HG2	1.71	0.54
5:BM:125:ARG:HH11	5:BM:125:ARG:HG2	1.71	0.54
6:BN:22:VAL:HG11	6:BN:123:LEU:HD22	1.90	0.54
6:BS:22:VAL:HG11	6:BS:123:LEU:HD22	1.90	0.54
5:BW:115:LEU:HB2	5:BW:143:ILE:HD11	1.90	0.54
4:BY:56:THR:HA	4:BY:61:PHE:CD2	2.43	0.54
4:BY:110:LYS:HG3	4:BY:134:ILE:CG2	2.36	0.54
4:BZ:91:HIS:ND1	7:Ba:73:ARG:HD2	2.22	0.54
4:Bd:8:GLU:CD	4:Bd:8:GLU:H	2.16	0.54
6:Bh:22:VAL:HG11	6:Bh:123:LEU:HD22	1.90	0.54
4:Bi:39:ALA:HB3	10:Ci:137:PHE:HZ	1.71	0.54
4:Bi:76:ILE:CA	4:Bi:79:LEU:HD23	2.25	0.54
4:Bn:39:ALA:HB3	10:Cn:137:PHE:HZ	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bn:64:HIS:O	4:Bn:68:VAL:HG23	2.07	0.54
5:Bq:83:MET:HG3	5:Bq:93:GLN:HG2	1.88	0.54
5:Bq:125:ARG:HH11	5:Bq:125:ARG:HG2	1.71	0.54
9:C1:203:GLU:HG3	9:C1:225:LEU:H	1.71	0.54
8:C5:43:ASP:C	8:C5:45:LYS:H	2.16	0.54
8:C5:117:TRP:HB2	8:C5:121:GLU:H	1.71	0.54
7:CA:9:GLU:HB2	9:CD:119:GLY:O	2.07	0.54
9:CD:23:ARG:CZ	10:Cn:18:ILE:HG13	2.38	0.54
10:CE:67:HIS:HB3	10:CE:77:ILE:HD11	1.90	0.54
8:CH:144:ARG:O	8:CH:144:ARG:HD2	2.07	0.54
10:CJ:18:ILE:HG13	9:Ch:23:ARG:CZ	2.38	0.54
9:CN:17:ASN:CG	10:CO:17:LEU:HD11	2.26	0.54
5:CV:84:LEU:CD1	5:CV:90:LEU:HD13	2.32	0.54
9:CX:138:ARG:N	9:CX:141:PHE:HB2	2.21	0.54
8:Cb:43:ASP:C	8:Cb:45:LYS:CB	2.76	0.54
8:Cb:43:ASP:C	8:Cb:45:LYS:H	2.16	0.54
9:Ch:57:ILE:CD1	10:Ci:54:VAL:HG13	2.25	0.54
10:Ci:67:HIS:HB3	10:Ci:77:ILE:HD11	1.90	0.54
9:Cr:17:ASN:CG	10:Cs:17:LEU:HD11	2.26	0.54
8:Cv:56:ASN:O	8:Cv:199:GLY:CA	2.51	0.54
8:Cv:131:THR:O	8:Cv:149:ALA:HB1	2.07	0.54
10:Cx:45:ARG:HB3	10:Cx:45:ARG:HH11	1.71	0.54
10:Cx:161:VAL:HG12	10:Cx:163:MET:HG3	1.90	0.54
3:AA:22:VAL:CG1	3:AA:127:LEU:HD22	2.25	0.54
2:AN:108:PRO:HB3	2:AN:147:LYS:HD3	1.89	0.54
4:Af:78:THR:HG23	4:Af:84:THR:HB	1.90	0.54
3:Aj:20:ASP:O	3:Aj:24:SER:HB2	2.07	0.54
4:Ak:8:GLU:CD	4:Ak:8:GLU:H	2.14	0.54
2:Am:115:LEU:HB2	2:Am:143:ILE:HD11	1.87	0.54
3:Ay:102:ILE:HG12	3:Ay:150:LEU:CB	2.38	0.54
4:B2:64:HIS:O	4:B2:68:VAL:HG23	2.07	0.54
4:BA:120:GLN:HG2	9:CD:80:LEU:CD1	2.31	0.54
6:BD:38:VAL:HA	6:BD:122:VAL:HG21	1.89	0.54
4:BE:59:PRO:CB	7:CA:89:PRO:HB2	2.38	0.54
4:BF:8:GLU:CD	4:BF:8:GLU:H	2.15	0.54
4:BJ:56:THR:HA	4:BJ:61:PHE:CD2	2.43	0.54
4:BJ:64:HIS:O	4:BJ:68:VAL:HG23	2.07	0.54
5:BM:115:LEU:HB2	5:BM:143:ILE:HD11	1.90	0.54
4:BT:56:THR:HA	4:BT:61:PHE:CD2	2.43	0.54
4:BY:64:HIS:O	4:BY:68:VAL:HG23	2.07	0.54
4:Be:64:HIS:O	4:Be:68:VAL:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bi:59:PRO:CB	7:Ce:89:PRO:HB2	2.38	0.54
7:Bk:88:PRO:HG2	7:Bk:89:PRO:HD3	1.90	0.54
5:Bq:115:LEU:HB2	5:Bq:143:ILE:HD11	1.90	0.54
6:Bw:22:VAL:HG11	6:Bw:123:LEU:HD22	1.90	0.54
4:Bx:56:THR:HA	4:Bx:61:PHE:CD2	2.43	0.54
4:By:110:LYS:HG3	4:By:134:ILE:CG2	2.37	0.54
10:C2:161:VAL:HG12	10:C2:163:MET:HG3	1.90	0.54
9:C6:138:ARG:N	9:C6:141:PHE:HB2	2.21	0.54
10:C7:18:ILE:HG13	9:CN:23:ARG:CZ	2.38	0.54
10:CE:112:VAL:HG22	10:CE:113:CYS:N	2.22	0.54
10:CE:125:MET:HE1	10:CE:204:ILE:HD11	1.90	0.54
10:CE:195:TYR:N	10:CE:195:TYR:CD1	2.75	0.54
5:CG:84:LEU:CD1	5:CG:90:LEU:HD13	2.32	0.54
5:CG:115:LEU:HB2	5:CG:143:ILE:HD11	1.89	0.54
8:CH:70:ARG:HB3	8:CH:93:SER:HB3	1.89	0.54
9:CI:23:ARG:CZ	10:CI:18:ILE:HG13	2.38	0.54
9:CN:107:ALA:CB	9:CN:132:ILE:HG21	2.37	0.54
9:CN:178:ARG:NH2	9:CN:180:ILE:HD11	2.23	0.54
10:CO:50:LEU:HD23	10:CO:50:LEU:C	2.31	0.54
8:CR:131:THR:O	8:CR:149:ALA:HB1	2.07	0.54
9:CS:137:ARG:CB	9:CS:141:PHE:HB3	2.34	0.54
10:CT:161:VAL:HG12	10:CT:163:MET:HG3	1.90	0.54
10:CY:161:VAL:HG12	10:CY:163:MET:HG3	1.90	0.54
7:CZ:33:ILE:HG13	7:CZ:72:LEU:HD21	1.89	0.54
5:Ca:125:ARG:HH11	5:Ca:125:ARG:HG2	1.71	0.54
9:Cc:137:ARG:HB2	9:Cc:141:PHE:CB	2.32	0.54
10:Cd:146:VAL:HG21	10:Cd:178:ILE:HD13	1.89	0.54
9:Ch:17:ASN:ND2	10:CI:17:LEU:HD11	2.22	0.54
10:CI:125:MET:HE1	10:CI:204:ILE:HD11	1.90	0.54
10:CI:195:TYR:N	10:CI:195:TYR:CD1	2.75	0.54
5:Ck:115:LEU:HB2	5:Ck:143:ILE:HD11	1.89	0.54
8:Cl:70:ARG:HB3	8:Cl:93:SER:HB3	1.89	0.54
9:Cm:17:ASN:CG	10:Cn:17:LEU:HD11	2.26	0.54
8:Cq:87:LYS:HG2	8:Cq:94:ASP:OD1	2.07	0.54
9:Cr:109:ASN:HB3	9:Cr:225:LEU:HD11	1.86	0.54
9:Cr:178:ARG:NH2	9:Cr:180:ILE:HD11	2.23	0.54
9:Cw:13:ARG:CZ	10:Cx:14:ILE:CG1	2.83	0.54
9:Cw:203:GLU:HG3	9:Cw:225:LEU:H	1.71	0.54
10:Cx:93:GLU:C	10:Cx:95:GLU:H	2.15	0.54
2:A1:108:PRO:HB3	2:A1:147:LYS:HD3	1.89	0.54
4:A4:78:THR:HG23	4:A4:84:THR:HB	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:78:THR:HG23	4:AB:84:THR:HB	1.90	0.54
3:AF:15:ILE:HD11	3:AF:134:ALA:O	2.07	0.54
3:AF:20:ASP:O	3:AF:24:SER:HB2	2.07	0.54
4:AG:78:THR:HG23	4:AG:84:THR:HB	1.90	0.54
3:AU:102:ILE:HG12	3:AU:150:LEU:CB	2.38	0.54
3:AU:125:GLN:HB3	4:AV:7:LEU:HD13	1.90	0.54
4:Aa:78:THR:HG23	4:Aa:84:THR:HB	1.90	0.54
3:Ae:22:VAL:CG1	3:Ae:127:LEU:HD22	2.25	0.54
4:Ak:78:THR:HG23	4:Ak:84:THR:HB	1.90	0.54
2:Ar:108:PRO:HB3	2:Ar:147:LYS:HD3	1.89	0.54
3:Ay:125:GLN:HB3	4:Az:7:LEU:HD13	1.90	0.54
5:B0:84:LEU:HA	5:B0:90:LEU:HD22	1.90	0.54
4:B2:8:GLU:CD	4:B2:8:GLU:H	2.16	0.54
4:B2:59:PRO:CB	7:Cy:89:PRO:HB2	2.38	0.54
4:B2:110:LYS:HG3	4:B2:134:ILE:CG2	2.36	0.54
6:BD:28:THR:O	6:BD:31:ARG:HG2	2.07	0.54
4:BO:56:THR:HA	4:BO:61:PHE:CD2	2.43	0.54
4:BP:64:HIS:O	4:BP:68:VAL:HG23	2.08	0.54
5:BW:84:LEU:HA	5:BW:90:LEU:HD22	1.90	0.54
4:BY:8:GLU:CD	4:BY:8:GLU:H	2.16	0.54
4:BY:59:PRO:CB	7:CU:89:PRO:HB2	2.38	0.54
6:Bh:11:ASP:CG	6:Bh:137:ARG:HH21	2.15	0.54
4:Bn:56:THR:HA	4:Bn:61:PHE:CD2	2.43	0.54
5:C4:57:ARG:HH11	5:C4:57:ARG:HG2	1.73	0.54
10:C7:146:VAL:HG21	10:C7:178:ILE:HD13	1.89	0.54
9:CD:17:ASN:OD1	10:CE:17:LEU:CD1	2.30	0.54
10:CE:18:ILE:HG13	9:Cm:23:ARG:CZ	2.38	0.54
8:CH:56:ASN:HB2	8:CH:198:LEU:O	2.08	0.54
8:CM:87:LYS:HG2	8:CM:94:ASP:OD1	2.07	0.54
10:CO:112:VAL:HG22	10:CO:113:CYS:N	2.22	0.54
8:CR:56:ASN:HB2	8:CR:198:LEU:O	2.08	0.54
10:CT:93:GLU:C	10:CT:95:GLU:H	2.15	0.54
9:Cc:109:ASN:HB3	9:Cc:225:LEU:HD11	1.86	0.54
10:Cd:18:ILE:HG13	9:Cr:23:ARG:CZ	2.38	0.54
5:Cf:125:ARG:HH11	5:Cf:125:ARG:HG2	1.71	0.54
8:Cg:110:SER:OG	8:Cg:131:THR:HB	2.08	0.54
9:Ch:17:ASN:OD1	10:Ci:17:LEU:CD1	2.30	0.54
10:Ci:112:VAL:HG22	10:Ci:113:CYS:N	2.22	0.54
5:Ck:84:LEU:CD1	5:Ck:90:LEU:HD13	2.32	0.54
8:Cl:56:ASN:HB2	8:Cl:198:LEU:O	2.08	0.54
9:Cr:107:ALA:CB	9:Cr:132:ILE:HG21	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cs:112:VAL:HG22	10:Cs:113:CYS:N	2.22	0.54
2:Al:115:LEU:HB2	2:Al:143:ILE:HD11	1.87	0.54
2:AX:108:PRO:HB3	2:AX:147:LYS:HD3	1.89	0.54
3:AY:23:TRP:HH2	3:AY:75:ASN:HA	1.71	0.54
4:BO:59:PRO:CB	7:CK:89:PRO:HB2	2.38	0.54
4:BO:64:HIS:O	4:BO:68:VAL:HG23	2.07	0.54
5:BR:84:LEU:HA	5:BR:90:LEU:HD22	1.90	0.54
4:BT:64:HIS:O	4:BT:68:VAL:HG23	2.07	0.54
4:BU:110:LYS:HG3	4:BU:134:ILE:CG2	2.37	0.54
4:Bs:56:THR:HA	4:Bs:61:PHE:CD2	2.43	0.54
4:Bs:59:PRO:CB	7:Co:89:PRO:HB2	2.38	0.54
4:Bs:64:HIS:O	4:Bs:68:VAL:HG23	2.07	0.54
4:Bt:64:HIS:O	4:Bt:68:VAL:HG23	2.08	0.54
8:C0:73:VAL:HG12	8:C0:74:PRO:HD2	1.88	0.54
8:C0:136:HIS:ND1	8:C0:146:TRP:HB2	2.23	0.54
10:C2:114:PHE:HD1	10:C2:215:GLU:N	2.06	0.54
7:C3:33:ILE:HG13	7:C3:72:LEU:HD21	1.89	0.54
9:C6:23:ARG:CZ	10:CO:18:ILE:HG13	2.38	0.54
10:C7:195:TYR:N	10:C7:195:TYR:CD1	2.75	0.54
8:CC:110:SER:OG	8:CC:131:THR:HB	2.08	0.54
9:CD:17:ASN:ND2	10:CE:17:LEU:HD11	2.22	0.54
8:CH:110:SER:OG	8:CH:131:THR:HB	2.08	0.54
9:CN:50:ILE:CD1	10:CO:50:LEU:HD22	2.34	0.54
9:CN:138:ARG:HB2	9:CN:141:PHE:HB2	1.90	0.54
10:CO:102:THR:HG21	10:CO:144:LEU:HD21	1.89	0.54
7:CP:33:ILE:HG13	7:CP:72:LEU:HD21	1.89	0.54
8:CR:182:PRO:HB2	8:CR:186:GLN:HE22	1.73	0.54
10:CT:45:ARG:HB3	10:CT:45:ARG:HH11	1.71	0.54
8:CW:136:HIS:ND1	8:CW:146:TRP:HB2	2.23	0.54
10:CY:114:PHE:HD1	10:CY:215:GLU:N	2.06	0.54
5:Ca:57:ARG:HH11	5:Ca:57:ARG:HG2	1.73	0.54
9:Cc:23:ARG:CZ	10:Cs:18:ILE:HG13	2.38	0.54
9:Cc:34:LYS:C	10:Cd:35:LEU:CD1	2.70	0.54
10:Cd:195:TYR:N	10:Cd:195:TYR:CD1	2.75	0.54
10:Cd:197:PHE:CB	10:Cd:199:ARG:HB3	2.31	0.54
5:Cf:57:ARG:HH11	5:Cf:57:ARG:HG2	1.73	0.54
9:Ch:138:ARG:HB2	9:Ch:141:PHE:HB2	1.90	0.54
10:Cn:125:MET:HE1	10:Cn:204:ILE:HD11	1.90	0.54
8:Cv:44:LYS:HE3	10:Cx:46:LYS:HZ1	1.71	0.54
8:Cv:56:ASN:HB2	8:Cv:198:LEU:O	2.08	0.54
8:Cv:182:PRO:HB2	8:Cv:186:GLN:HE22	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cx:102:THR:HG21	10:Cx:144:LEU:HD21	1.89	0.54
5:Cz:84:LEU:CD1	5:Cz:90:LEU:HD13	2.32	0.54
4:AL:78:THR:HG23	4:AL:84:THR:HB	1.90	0.54
1:AR:137:LYS:HD3	6:BS:6:CYS:SG	2.47	0.54
4:AV:78:THR:HG23	4:AV:84:THR:HB	1.90	0.54
3:AZ:20:ASP:O	3:AZ:24:SER:HB2	2.07	0.54
4:Af:123:ARG:HD3	4:Af:123:ARG:H	1.73	0.54
3:Aj:15:ILE:HD11	3:Aj:134:ALA:O	2.07	0.54
4:Ap:78:THR:HG23	4:Ap:84:THR:HB	1.90	0.54
4:Au:78:THR:HG23	4:Au:84:THR:HB	1.90	0.54
3:Ay:20:ASP:O	3:Ay:24:SER:HB2	2.07	0.54
7:B4:88:PRO:HG2	7:B4:89:PRO:HD3	1.90	0.54
6:BS:28:THR:O	6:BS:31:ARG:HG2	2.07	0.54
7:Ba:88:PRO:HG2	7:Ba:89:PRO:HD3	1.90	0.54
4:Bd:64:HIS:O	4:Bd:68:VAL:HG23	2.07	0.54
6:Bh:28:THR:O	6:Bh:31:ARG:HG2	2.07	0.54
4:Bo:64:HIS:O	4:Bo:68:VAL:HG23	2.07	0.54
5:Bv:84:LEU:HA	5:Bv:90:LEU:HD22	1.90	0.54
6:Bw:28:THR:O	6:Bw:31:ARG:HG2	2.07	0.54
4:Bx:64:HIS:O	4:Bx:68:VAL:HG23	2.07	0.54
9:C1:42:ASP:HB2	9:C1:45:HIS:CB	2.36	0.54
5:C4:125:ARG:HH11	5:C4:125:ARG:HG2	1.71	0.54
8:C5:43:ASP:C	8:C5:45:LYS:CB	2.76	0.54
10:C7:114:PHE:HD1	10:C7:215:GLU:H	1.56	0.54
10:C7:161:VAL:HG12	10:C7:163:MET:HG3	1.90	0.54
5:CB:57:ARG:HH11	5:CB:57:ARG:HG2	1.73	0.54
9:CD:138:ARG:HB2	9:CD:141:PHE:HB2	1.90	0.54
10:CE:114:PHE:HD1	10:CE:215:GLU:H	1.56	0.54
10:CJ:125:MET:HE1	10:CJ:204:ILE:HD11	1.90	0.54
7:CK:33:ILE:HG13	7:CK:72:LEU:HD21	1.89	0.54
9:CN:130:ILE:HD11	9:CN:193:VAL:HG21	1.88	0.54
10:CO:93:GLU:C	10:CO:95:GLU:H	2.15	0.54
10:CO:161:VAL:HG12	10:CO:163:MET:HG3	1.90	0.54
10:CT:102:THR:HG21	10:CT:144:LEU:HD21	1.89	0.54
8:Cb:182:PRO:HB2	8:Cb:186:GLN:HE22	1.73	0.54
10:Cd:161:VAL:HG12	10:Cd:163:MET:HG3	1.90	0.54
10:Ci:114:PHE:HD1	10:Ci:215:GLU:H	1.56	0.54
8:Cl:110:SER:OG	8:Cl:131:THR:HB	2.08	0.54
9:Cr:130:ILE:HD11	9:Cr:193:VAL:HG21	1.88	0.54
9:Cr:138:ARG:HB2	9:Cr:141:PHE:HB2	1.90	0.54
7:Ct:33:ILE:HG13	7:Ct:72:LEU:HD21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Cu:57:ARG:HH11	5:Cu:57:ARG:HG2	1.73	0.54
8:Cv:42:VAL:HG21	8:Cv:46:THR:CG2	2.38	0.54
3:A2:23:TRP:HH2	3:A2:75:ASN:HA	1.71	0.53
3:A3:20:ASP:O	3:A3:24:SER:HB2	2.07	0.53
4:AB:123:ARG:HD3	4:AB:123:ARG:H	1.73	0.53
1:AH:129:ASP:OD1	1:AH:129:ASP:N	2.39	0.53
4:AQ:78:THR:HG23	4:AQ:84:THR:HB	1.90	0.53
3:AU:20:ASP:O	3:AU:24:SER:HB2	2.07	0.53
4:Az:78:THR:HG23	4:Az:84:THR:HB	1.90	0.53
4:B7:56:THR:HA	4:B7:61:PHE:CD2	2.43	0.53
4:B7:59:PRO:CB	7:C3:89:PRO:HB2	2.38	0.53
4:B7:64:HIS:O	4:B7:68:VAL:HG23	2.07	0.53
5:BC:84:LEU:HA	5:BC:90:LEU:HD22	1.90	0.53
4:BJ:123:ARG:HD3	4:BJ:123:ARG:H	1.74	0.53
4:Be:91:HIS:ND1	7:Bf:73:ARG:HD2	2.22	0.53
4:Be:120:GLN:HG2	9:Ch:80:LEU:CD1	2.31	0.53
4:Bn:123:ARG:HD3	4:Bn:123:ARG:H	1.74	0.53
4:By:64:HIS:O	4:By:68:VAL:HG23	2.07	0.53
8:C0:21:ILE:HD13	10:C2:20:ARG:HD3	1.87	0.53
10:C2:102:THR:HG21	10:C2:144:LEU:HD21	1.89	0.53
8:C5:136:HIS:ND1	8:C5:146:TRP:HB2	2.23	0.53
8:C5:182:PRO:HB2	8:C5:186:GLN:HE22	1.73	0.53
9:C6:34:LYS:C	10:C7:35:LEU:CD1	2.70	0.53
9:C6:82:VAL:HG23	9:C6:88:ASP:OD2	2.08	0.53
9:C6:109:ASN:HB3	9:C6:225:LEU:HD11	1.86	0.53
8:CH:105:THR:HG23	8:CH:145:VAL:HG13	1.89	0.53
8:CH:182:PRO:HB2	8:CH:186:GLN:HE22	1.73	0.53
9:CI:31:LEU:HD21	10:CJ:31:VAL:CB	2.39	0.53
10:CJ:45:ARG:HB3	10:CJ:45:ARG:HH11	1.71	0.53
8:CR:42:VAL:HG21	8:CR:46:THR:CG2	2.38	0.53
8:CR:44:LYS:HE3	10:CT:46:LYS:HZ1	1.71	0.53
10:CT:114:PHE:HD1	10:CT:215:GLU:H	1.56	0.53
8:CW:73:VAL:HG12	8:CW:74:PRO:HD2	1.88	0.53
8:Cb:136:HIS:ND1	8:Cb:146:TRP:HB2	2.23	0.53
10:Cd:102:THR:HG21	10:Cd:144:LEU:HD21	1.89	0.53
10:Cd:114:PHE:HD1	10:Cd:215:GLU:N	2.06	0.53
8:Cl:182:PRO:HB2	8:Cl:186:GLN:HE22	1.73	0.53
9:Cm:31:LEU:HD21	10:Cn:31:VAL:CB	2.39	0.53
10:Cn:45:ARG:HH11	10:Cn:45:ARG:CB	2.22	0.53
7:Co:33:ILE:HG13	7:Co:72:LEU:HD21	1.89	0.53
9:Cr:50:ILE:CD1	10:Cs:50:LEU:HD22	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cs:102:THR:HG21	10:Cs:144:LEU:HD21	1.89	0.53
10:Cs:161:VAL:HG12	10:Cs:163:MET:HG3	1.90	0.53
8:Cv:14:VAL:HG22	10:Cx:13:ILE:CG2	2.22	0.53
10:Cx:114:PHE:HD1	10:Cx:215:GLU:N	2.06	0.53
2:AD:51:ALA:HB3	2:AD:52:PRO:CD	2.39	0.53
4:AG:56:THR:HA	4:AG:61:PHE:CD2	2.44	0.53
2:Ah:51:ALA:HB3	2:Ah:52:PRO:CD	2.39	0.53
4:Ak:56:THR:HA	4:Ak:61:PHE:CD2	2.44	0.53
3:Ao:102:ILE:HG12	3:Ao:150:LEU:CB	2.37	0.53
1:Av:137:LYS:HD3	6:Bw:6:CYS:SG	2.47	0.53
2:Aw:51:ALA:HB3	2:Aw:52:PRO:CD	2.39	0.53
5:B0:83:MET:HG3	5:B0:93:GLN:HG2	1.89	0.53
4:BA:91:HIS:ND1	7:BB:73:ARG:HD2	2.22	0.53
4:BK:64:HIS:O	4:BK:68:VAL:HG23	2.07	0.53
4:BU:64:HIS:O	4:BU:68:VAL:HG23	2.07	0.53
4:BY:78:THR:HG22	7:CU:72:LEU:HD13	1.91	0.53
4:Bd:56:THR:HA	4:Bd:61:PHE:CD2	2.43	0.53
4:Bd:59:PRO:CB	7:CZ:89:PRO:HB2	2.38	0.53
5:Bg:84:LEU:HA	5:Bg:90:LEU:HD22	1.90	0.53
5:Bq:84:LEU:HA	5:Bq:90:LEU:HD22	1.90	0.53
10:C7:114:PHE:HD1	10:C7:215:GLU:N	2.06	0.53
8:CC:28:LEU:CD1	10:CE:27:SER:HB3	2.23	0.53
8:CC:82:PHE:CD1	8:CC:83:CYS:HA	2.40	0.53
9:CD:57:ILE:CD1	10:CE:54:VAL:HG13	2.25	0.53
9:CD:178:ARG:NH2	9:CD:180:ILE:HD11	2.23	0.53
9:CI:138:ARG:HB2	9:CI:141:PHE:HB2	1.90	0.53
10:CJ:45:ARG:HH11	10:CJ:45:ARG:CB	2.22	0.53
7:CP:9:GLU:HB2	9:CS:119:GLY:O	2.07	0.53
5:CQ:57:ARG:HH11	5:CQ:57:ARG:HG2	1.73	0.53
8:CR:148:ARG:HG3	8:CR:148:ARG:NH1	2.22	0.53
10:CT:114:PHE:HD1	10:CT:215:GLU:N	2.06	0.53
9:CX:42:ASP:HB2	9:CX:45:HIS:CB	2.36	0.53
10:CY:102:THR:HG21	10:CY:144:LEU:HD21	1.89	0.53
9:Cc:82:VAL:HG23	9:Cc:88:ASP:OD2	2.08	0.53
10:Cd:67:HIS:HB3	10:Cd:77:ILE:HD11	1.90	0.53
10:Cd:114:PHE:HD1	10:Cd:215:GLU:H	1.56	0.53
8:Cg:43:ASP:C	8:Cg:45:LYS:H	2.16	0.53
8:Cg:82:PHE:CD1	8:Cg:83:CYS:HA	2.40	0.53
10:CI:45:ARG:HB3	10:CI:45:ARG:HH11	1.71	0.53
8:Cl:105:THR:HG23	8:Cl:145:VAL:HG13	1.89	0.53
9:Cm:137:ARG:CB	9:Cm:141:PHE:HB3	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cm:138:ARG:HB2	9:Cm:141:PHE:HB2	1.90	0.53
10:Cn:45:ARG:HB3	10:Cn:45:ARG:HH11	1.71	0.53
10:Cn:146:VAL:HG21	10:Cn:178:ILE:HD13	1.89	0.53
8:Cq:18:ASN:C	10:Cs:20:ARG:HH12	2.15	0.53
7:Ct:9:GLU:HB2	9:Cw:119:GLY:O	2.07	0.53
8:Cv:110:SER:OG	8:Cv:131:THR:HB	2.08	0.53
10:Cx:114:PHE:HD1	10:Cx:215:GLU:H	1.56	0.53
4:A4:56:THR:HA	4:A4:61:PHE:CD2	2.44	0.53
2:A6:51:ALA:HB3	2:A6:52:PRO:CD	2.39	0.53
4:AB:56:THR:HA	4:AB:61:PHE:CD2	2.44	0.53
2:AI:51:ALA:HB3	2:AI:52:PRO:CD	2.39	0.53
3:AK:102:ILE:HG12	3:AK:150:LEU:CB	2.37	0.53
2:AS:51:ALA:HB3	2:AS:52:PRO:CD	2.39	0.53
4:AV:56:THR:HA	4:AV:61:PHE:CD2	2.44	0.53
4:AV:123:ARG:HD3	4:AV:123:ARG:H	1.73	0.53
3:AZ:38:VAL:HA	3:AZ:122:VAL:HG21	1.89	0.53
4:Aa:56:THR:HA	4:Aa:61:PHE:CD2	2.44	0.53
2:Ac:51:ALA:HB3	2:Ac:52:PRO:CD	2.39	0.53
2:Ah:18:LYS:HZ3	2:Ah:85:ASP:HB2	1.73	0.53
1:Al:129:ASP:OD1	1:Al:129:ASP:N	2.39	0.53
3:As:53:PHE:HB2	3:As:58:ILE:HG21	1.91	0.53
4:Az:56:THR:HA	4:Az:61:PHE:CD2	2.44	0.53
4:B2:78:THR:HG22	7:Cy:72:LEU:HD13	1.91	0.53
5:BW:83:MET:HG3	5:BW:93:GLN:HG2	1.89	0.53
4:Bj:64:HIS:O	4:Bj:68:VAL:HG23	2.07	0.53
9:C1:31:LEU:HD21	10:C2:31:VAL:CB	2.39	0.53
10:C2:18:ILE:HG13	9:CS:23:ARG:CZ	2.38	0.53
9:C6:107:ALA:CB	9:C6:132:ILE:HG21	2.37	0.53
10:C7:102:THR:HG21	10:C7:144:LEU:HD21	1.89	0.53
10:C7:197:PHE:CB	10:C7:199:ARG:HB3	2.31	0.53
8:CC:43:ASP:C	8:CC:45:LYS:H	2.16	0.53
10:CJ:114:PHE:HD1	10:CJ:215:GLU:N	2.06	0.53
8:CM:18:ASN:C	10:CO:20:ARG:HH12	2.15	0.53
9:CN:34:LYS:C	10:CO:35:LEU:HD11	2.24	0.53
8:CR:110:SER:OG	8:CR:131:THR:HB	2.08	0.53
9:CS:82:VAL:HG23	9:CS:88:ASP:OD2	2.08	0.53
9:CS:178:ARG:NH2	9:CS:180:ILE:HD11	2.23	0.53
5:CV:57:ARG:HH11	5:CV:57:ARG:HG2	1.73	0.53
8:CW:21:ILE:HD13	10:CY:20:ARG:HD3	1.87	0.53
9:CX:31:LEU:HD21	10:CY:31:VAL:CB	2.39	0.53
10:CY:114:PHE:HD1	10:CY:215:GLU:H	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ci:115:ASP:CB	10:Ci:121:ARG:HG3	2.35	0.53
7:Cj:33:ILE:HG13	7:Cj:72:LEU:HD21	1.89	0.53
8:Cl:148:ARG:HG3	8:Cl:148:ARG:NH1	2.22	0.53
10:Cs:93:GLU:C	10:Cs:95:GLU:H	2.15	0.53
3:A3:38:VAL:HA	3:A3:122:VAL:HG21	1.89	0.53
2:AD:108:PRO:HB3	2:AD:147:LYS:HD3	1.89	0.53
3:AO:53:PHE:HB2	3:AO:58:ILE:HG21	1.91	0.53
3:AT:23:TRP:HH2	3:AT:75:ASN:HA	1.70	0.53
3:Ae:38:VAL:HA	3:Ae:122:VAL:HG21	1.89	0.53
4:Af:56:THR:HA	4:Af:61:PHE:CD2	2.44	0.53
2:Am:51:ALA:HB3	2:Am:52:PRO:CD	2.39	0.53
2:Ar:51:ALA:HB3	2:Ar:52:PRO:CD	2.39	0.53
4:Az:123:ARG:HD3	4:Az:123:ARG:H	1.73	0.53
6:B1:38:VAL:HA	6:B1:122:VAL:HG21	1.89	0.53
7:B4:33:ILE:HG13	7:B4:72:LEU:HD21	1.91	0.53
4:BE:109:PHE:CE2	4:BE:113:ILE:HD11	2.44	0.53
5:BM:84:LEU:HA	5:BM:90:LEU:HD22	1.90	0.53
4:BT:109:PHE:CE2	4:BT:113:ILE:HD11	2.44	0.53
7:Ba:33:ILE:HG13	7:Ba:72:LEU:HD21	1.91	0.53
7:Bf:88:PRO:HG2	7:Bf:89:PRO:HD3	1.90	0.53
4:Bi:109:PHE:CE2	4:Bi:113:ILE:HD11	2.44	0.53
4:Bx:8:GLU:CD	4:Bx:8:GLU:H	2.16	0.53
4:Bx:109:PHE:CE2	4:Bx:113:ILE:HD11	2.44	0.53
10:C2:114:PHE:HD1	10:C2:215:GLU:H	1.56	0.53
9:C6:150:LEU:HD11	9:C6:165:SER:HB3	1.91	0.53
10:C7:67:HIS:HB3	10:C7:77:ILE:HD11	1.90	0.53
10:CE:45:ARG:HB3	10:CE:45:ARG:HH11	1.71	0.53
5:CG:51:ALA:HB3	5:CG:52:PRO:CD	2.39	0.53
10:CJ:146:VAL:HG21	10:CJ:178:ILE:HD13	1.89	0.53
8:CR:51:LYS:HZ2	10:CT:46:LYS:HE3	1.72	0.53
9:CS:31:LEU:HD21	10:CT:31:VAL:CB	2.39	0.53
8:CW:43:ASP:C	8:CW:45:LYS:H	2.16	0.53
10:CY:18:ILE:HG13	9:Cw:23:ARG:CZ	2.38	0.53
9:Cc:107:ALA:CB	9:Cc:132:ILE:HG21	2.37	0.53
9:Cc:150:LEU:HD11	9:Cc:165:SER:HB3	1.91	0.53
9:Ch:24:LEU:CD2	10:Ci:24:ILE:HG23	2.18	0.53
9:Ch:178:ARG:NH2	9:Ch:180:ILE:HD11	2.23	0.53
5:Ck:51:ALA:HB3	5:Ck:52:PRO:CD	2.39	0.53
9:Cm:82:VAL:HG23	9:Cm:88:ASP:OD2	2.08	0.53
5:Cp:51:ALA:HB3	5:Cp:52:PRO:CD	2.39	0.53
9:Cw:82:VAL:HG23	9:Cw:88:ASP:OD2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cw:138:ARG:HB2	9:Cw:141:PHE:HB2	1.90	0.53
9:Cw:178:ARG:NH2	9:Cw:180:ILE:HD11	2.23	0.53
5:Cz:57:ARG:HH11	5:Cz:57:ARG:HG2	1.73	0.53
3:AE:53:PHE:HB2	3:AE:58:ILE:HG21	1.91	0.53
2:AN:51:ALA:HB3	2:AN:52:PRO:CD	2.39	0.53
1:AR:18:GLN:HE22	1:AR:132:ASP:H	1.56	0.53
1:AW:22:LEU:HD13	1:AW:23:TRP:CH2	2.44	0.53
4:Aa:123:ARG:HD3	4:Aa:123:ARG:H	1.73	0.53
2:Ah:108:PRO:HB3	2:Ah:147:LYS:HD3	1.89	0.53
3:Ai:53:PHE:HB2	3:Ai:58:ILE:HG21	1.91	0.53
4:Au:123:ARG:HD3	4:Au:123:ARG:H	1.73	0.53
3:Ax:23:TRP:HH2	3:Ax:75:ASN:HA	1.70	0.53
4:B7:78:THR:HG22	7:C3:72:LEU:HD13	1.91	0.53
4:BF:64:HIS:O	4:BF:68:VAL:HG23	2.07	0.53
4:BJ:59:PRO:CB	7:CF:89:PRO:HB2	2.38	0.53
5:Bl:51:ALA:HB3	5:Bl:52:PRO:CD	2.39	0.53
7:Bp:88:PRO:HG2	7:Bp:89:PRO:HD3	1.90	0.53
4:Bx:59:PRO:CB	7:Ct:89:PRO:HB2	2.38	0.53
9:C6:178:ARG:NH2	9:C6:180:ILE:HD11	2.23	0.53
8:CC:56:ASN:HB2	8:CC:198:LEU:O	2.08	0.53
9:CD:11:ASP:N	9:CD:12:PRO:HD2	2.24	0.53
10:CE:114:PHE:HD1	10:CE:215:GLU:N	2.06	0.53
7:CF:33:ILE:HG13	7:CF:72:LEU:HD21	1.89	0.53
8:CH:148:ARG:HG3	8:CH:148:ARG:NH1	2.22	0.53
9:CI:82:VAL:HG23	9:CI:88:ASP:OD2	2.08	0.53
5:CL:51:ALA:HB3	5:CL:52:PRO:CD	2.39	0.53
9:CS:138:ARG:HB2	9:CS:141:PHE:HB2	1.90	0.53
10:CT:125:MET:HE1	10:CT:204:ILE:HD11	1.90	0.53
9:CX:92:ALA:HB3	9:CX:95:GLU:CG	2.20	0.53
8:Cb:56:ASN:CA	8:Cb:199:GLY:CA	2.64	0.53
8:Cg:28:LEU:CD1	10:Ci:27:SER:HB3	2.23	0.53
8:Cg:136:HIS:ND1	8:Cg:146:TRP:HB2	2.23	0.53
8:Cl:82:PHE:CD1	8:Cl:83:CYS:HA	2.40	0.53
9:Cm:107:ALA:CB	9:Cm:132:ILE:HG21	2.37	0.53
10:Cn:114:PHE:HD1	10:Cn:215:GLU:N	2.06	0.53
8:Cv:172:ASN:C	8:Cv:172:ASN:ND2	2.67	0.53
1:A0:22:LEU:HD13	1:A0:23:TRP:CH2	2.44	0.53
3:AA:38:VAL:HA	3:AA:122:VAL:HG21	1.89	0.53
4:AQ:123:ARG:HD3	4:AQ:123:ARG:H	1.73	0.53
1:AR:18:GLN:NE2	1:AR:131:TYR:HA	2.24	0.53
4:Ak:123:ARG:HD3	4:Ak:123:ARG:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B3:79:LEU:HD12	4:B3:85:LEU:HD11	1.89	0.53
7:BB:33:ILE:HG13	7:BB:72:LEU:HD21	1.91	0.53
7:BB:88:PRO:HG2	7:BB:89:PRO:HD3	1.90	0.53
5:BH:51:ALA:HB3	5:BH:52:PRO:CD	2.39	0.53
7:BL:88:PRO:HG2	7:BL:89:PRO:HD3	1.90	0.53
5:BR:83:MET:HG3	5:BR:93:GLN:HG2	1.89	0.53
4:BT:8:GLU:CD	4:BT:8:GLU:H	2.16	0.53
4:BT:59:PRO:CB	7:CP:89:PRO:HB2	2.38	0.53
6:BX:38:VAL:HA	6:BX:122:VAL:HG21	1.89	0.53
4:Bd:78:THR:HG22	7:CZ:72:LEU:HD13	1.91	0.53
4:Bj:110:LYS:HG3	4:Bj:134:ILE:CG2	2.37	0.53
4:Bn:59:PRO:CB	7:Cj:89:PRO:HB2	2.38	0.53
4:Bt:8:GLU:CD	4:Bt:8:GLU:H	2.15	0.53
4:Bx:123:ARG:HD3	4:Bx:123:ARG:H	1.74	0.53
8:C0:42:VAL:HG21	8:C0:46:THR:CG2	2.38	0.53
8:C0:43:ASP:C	8:C0:45:LYS:H	2.16	0.53
8:C5:42:VAL:HG21	8:C5:46:THR:CG2	2.38	0.53
9:C6:138:ARG:HB2	9:C6:141:PHE:HB2	1.90	0.53
8:CC:136:HIS:ND1	8:CC:146:TRP:HB2	2.23	0.53
9:CD:82:VAL:HG23	9:CD:88:ASP:OD2	2.08	0.53
9:CI:11:ASP:N	9:CI:12:PRO:HD2	2.24	0.53
9:CI:13:ARG:CZ	10:CJ:14:ILE:CG1	2.83	0.53
9:CI:137:ARG:CB	9:CI:141:PHE:HB3	2.34	0.53
10:CJ:209:SER:HB2	10:CJ:211:GLU:HG2	1.91	0.53
10:CT:67:HIS:HB3	10:CT:77:ILE:HD11	1.90	0.53
8:CW:42:VAL:HG21	8:CW:46:THR:CG2	2.38	0.53
8:Cb:105:THR:HG23	8:Cb:145:VAL:HG13	1.89	0.53
9:Cc:138:ARG:HB2	9:Cc:141:PHE:HB2	1.90	0.53
7:Ce:129:ASP:OD1	7:Ce:129:ASP:N	2.37	0.53
8:Cg:56:ASN:HB2	8:Cg:198:LEU:O	2.08	0.53
9:Ch:11:ASP:N	9:Ch:12:PRO:HD2	2.24	0.53
9:Ch:82:VAL:HG23	9:Ch:88:ASP:OD2	2.08	0.53
9:Ch:137:ARG:HB2	9:Ch:141:PHE:CB	2.32	0.53
10:CI:114:PHE:HD1	10:CI:215:GLU:N	2.06	0.53
10:Cn:67:HIS:HB3	10:Cn:77:ILE:HD11	1.90	0.53
10:Cn:209:SER:HB2	10:Cn:211:GLU:HG2	1.91	0.53
9:Cr:31:LEU:HD21	10:Cs:31:VAL:CB	2.38	0.53
10:Cx:67:HIS:HB3	10:Cx:77:ILE:HD11	1.90	0.53
10:Cx:125:MET:HE1	10:Cx:204:ILE:HD11	1.90	0.53
1:A0:18:GLN:NE2	1:A0:131:TYR:HA	2.24	0.53
2:A1:51:ALA:HB3	2:A1:52:PRO:CD	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A4:123:ARG:HD3	4:A4:123:ARG:H	1.73	0.53
1:AM:18:GLN:NE2	1:AM:131:TYR:HA	2.24	0.53
2:AN:86:THR:HG22	2:AN:88:ASP:OD1	2.09	0.53
1:AW:18:GLN:NE2	1:AW:131:TYR:HA	2.24	0.53
2:AX:51:ALA:HB3	2:AX:52:PRO:CD	2.39	0.53
2:Ac:108:PRO:HB3	2:Ac:147:LYS:HD3	1.89	0.53
3:An:53:PHE:HB2	3:An:58:ILE:HG21	1.91	0.53
1:Av:18:GLN:NE2	1:Av:131:TYR:HA	2.24	0.53
1:Av:18:GLN:HE22	1:Av:132:ASP:H	1.56	0.53
4:BP:79:LEU:HD12	4:BP:85:LEU:HD11	1.89	0.53
7:BQ:88:PRO:HG2	7:BQ:89:PRO:HD3	1.90	0.53
4:BT:123:ARG:HD3	4:BT:123:ARG:H	1.74	0.53
7:Bf:33:ILE:HG13	7:Bf:72:LEU:HD21	1.91	0.53
5:Bg:51:ALA:HB3	5:Bg:52:PRO:CD	2.39	0.53
4:Bs:110:LYS:HG3	4:Bs:134:ILE:CG2	2.36	0.53
7:Bu:88:PRO:HG2	7:Bu:89:PRO:HD3	1.90	0.53
5:Bv:83:MET:HG3	5:Bv:93:GLN:HG2	1.89	0.53
9:C1:92:ALA:HB3	9:C1:95:GLU:CG	2.20	0.53
8:C5:105:THR:HG23	8:C5:145:VAL:HG13	1.89	0.53
8:C5:110:SER:OG	8:C5:131:THR:HB	2.08	0.53
9:C6:11:ASP:N	9:C6:12:PRO:HD2	2.24	0.53
9:C6:201:ASP:HB2	9:C6:204:ARG:NE	2.15	0.53
8:CC:105:THR:HG23	8:CC:145:VAL:HG13	1.89	0.53
9:CD:137:ARG:HB2	9:CD:141:PHE:CB	2.32	0.53
8:CH:82:PHE:CD1	8:CH:83:CYS:HA	2.40	0.53
8:CH:136:HIS:ND1	8:CH:146:TRP:HB2	2.23	0.53
9:CI:107:ALA:CB	9:CI:132:ILE:HG21	2.37	0.53
10:CJ:67:HIS:HB3	10:CJ:77:ILE:HD11	1.90	0.53
9:CN:31:LEU:HD21	10:CO:31:VAL:CB	2.38	0.53
8:CR:14:VAL:HG22	10:CT:13:ILE:CG2	2.22	0.53
8:Cb:42:VAL:HG21	8:Cb:46:THR:CG2	2.38	0.53
9:Cc:11:ASP:N	9:Cc:12:PRO:HD2	2.24	0.53
9:Cc:178:ARG:NH2	9:Cc:180:ILE:HD11	2.23	0.53
8:Cg:105:THR:HG23	8:Cg:145:VAL:HG13	1.89	0.53
9:Ch:107:ALA:CB	9:Ch:132:ILE:HG21	2.37	0.53
10:Ci:161:VAL:HG12	10:Ci:163:MET:HG3	1.90	0.53
8:Cl:136:HIS:ND1	8:Cl:146:TRP:HB2	2.23	0.53
9:Cm:11:ASP:N	9:Cm:12:PRO:HD2	2.24	0.53
9:Cm:13:ARG:CZ	10:Cn:14:ILE:CG1	2.83	0.53
10:Cn:161:VAL:HG12	10:Cn:163:MET:HG3	1.90	0.53
8:Cq:42:VAL:HG21	8:Cq:46:THR:CG2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:17:ASN:ND2	10:Cs:17:LEU:HD11	2.22	0.53
2:A1:18:LYS:HZ3	2:A1:85:ASP:HB2	1.74	0.53
2:A6:108:PRO:HB3	2:A6:147:LYS:HD3	1.89	0.53
3:A7:53:PHE:HB2	3:A7:58:ILE:HG21	1.91	0.53
4:AG:123:ARG:HD3	4:AG:123:ARG:H	1.73	0.53
1:AH:18:GLN:NE2	1:AH:131:TYR:HA	2.24	0.53
3:AJ:53:PHE:HB2	3:AJ:58:ILE:HG21	1.91	0.53
3:AP:102:ILE:HG12	3:AP:150:LEU:CB	2.38	0.53
1:AR:22:LEU:HD13	1:AR:23:TRP:CH2	2.44	0.53
2:AS:108:PRO:HB3	2:AS:147:LYS:HD3	1.89	0.53
1:Al:18:GLN:NE2	1:Al:131:TYR:HA	2.24	0.53
1:Aq:18:GLN:NE2	1:Aq:131:TYR:HA	2.24	0.53
2:Ar:86:THR:HG22	2:Ar:88:ASP:OD1	2.09	0.53
4:Au:56:THR:HA	4:Au:61:PHE:CD2	2.44	0.53
2:Aw:108:PRO:HB3	2:Aw:147:LYS:HD3	1.89	0.53
5:BC:51:ALA:HB3	5:BC:52:PRO:CD	2.39	0.53
4:BF:110:LYS:HG3	4:BF:134:ILE:CG2	2.37	0.53
4:BO:110:LYS:HG3	4:BO:134:ILE:CG2	2.36	0.53
4:BP:8:GLU:CD	4:BP:8:GLU:H	2.15	0.53
7:BV:33:ILE:HG13	7:BV:72:LEU:HD21	1.91	0.53
5:BW:51:ALA:HB3	5:BW:52:PRO:CD	2.39	0.53
4:BZ:79:LEU:HD12	4:BZ:85:LEU:HD11	1.89	0.53
4:Bd:109:PHE:CE2	4:Bd:113:ILE:HD11	2.44	0.53
4:Bt:79:LEU:HD12	4:Bt:85:LEU:HD11	1.89	0.53
7:CA:129:ASP:OD1	7:CA:129:ASP:N	2.37	0.53
10:CE:117:CYS:SG	10:CE:118:THR:HG23	2.49	0.53
10:CE:161:VAL:HG12	10:CE:163:MET:HG3	1.90	0.53
8:CH:42:VAL:HG21	8:CH:46:THR:CG2	2.38	0.53
8:CH:182:PRO:HD3	8:CH:211:PRO:HG3	1.91	0.53
10:CJ:114:PHE:HD1	10:CJ:215:GLU:H	1.56	0.53
10:CJ:161:VAL:HG12	10:CJ:163:MET:HG3	1.90	0.53
10:CJ:195:TYR:CD1	10:CJ:195:TYR:N	2.75	0.53
8:CM:42:VAL:HG21	8:CM:46:THR:CG2	2.38	0.53
8:CM:136:HIS:ND1	8:CM:146:TRP:HB2	2.23	0.53
9:CN:11:ASP:N	9:CN:12:PRO:HD2	2.24	0.53
9:CN:17:ASN:ND2	10:CO:17:LEU:HD11	2.22	0.53
5:CQ:51:ALA:HB3	5:CQ:52:PRO:CD	2.39	0.53
8:CR:43:ASP:C	8:CR:45:LYS:H	2.16	0.53
10:Cn:195:TYR:N	10:Cn:195:TYR:CD1	2.75	0.53
8:Cq:105:THR:HG23	8:Cq:145:VAL:HG13	1.89	0.53
8:Cq:136:HIS:ND1	8:Cq:146:TRP:HB2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:11:ASP:N	9:Cr:12:PRO:HD2	2.24	0.53
10:Cs:114:PHE:HD1	10:Cs:215:GLU:N	2.06	0.53
10:Cs:114:PHE:HD1	10:Cs:215:GLU:H	1.56	0.53
8:Cv:136:HIS:ND1	8:Cv:146:TRP:HB2	2.23	0.53
4:AL:56:THR:HA	4:AL:61:PHE:CD2	2.44	0.53
4:AQ:56:THR:HA	4:AQ:61:PHE:CD2	2.44	0.53
3:Ad:53:PHE:HB2	3:Ad:58:ILE:HG21	1.91	0.53
1:Av:22:LEU:HD13	1:Av:23:TRP:CH2	2.44	0.53
3:Ay:38:VAL:HA	3:Ay:122:VAL:HG21	1.89	0.53
5:B0:51:ALA:HB3	5:B0:52:PRO:CD	2.39	0.53
5:B5:115:LEU:HB2	5:B5:143:ILE:HD11	1.90	0.53
4:B7:109:PHE:CE2	4:B7:113:ILE:HD11	2.44	0.53
4:B7:123:ARG:HD3	4:B7:123:ARG:H	1.74	0.53
4:BE:56:THR:HA	4:BE:61:PHE:CD2	2.43	0.53
7:BV:22:LEU:HD13	7:BV:23:TRP:CH2	2.44	0.53
4:Bd:123:ARG:HD3	4:Bd:123:ARG:H	1.74	0.53
4:Be:79:LEU:HD12	4:Be:85:LEU:HD11	1.89	0.53
4:Bj:56:THR:HA	4:Bj:61:PHE:CD2	2.44	0.53
4:Bn:109:PHE:CE2	4:Bn:113:ILE:HD11	2.44	0.53
7:Bz:22:LEU:HD13	7:Bz:23:TRP:CH2	2.44	0.53
7:Bz:33:ILE:HG13	7:Bz:72:LEU:HD21	1.91	0.53
9:C1:23:ARG:CZ	10:CT:18:ILE:HG13	2.38	0.53
9:C1:150:LEU:HD11	9:C1:165:SER:HB3	1.91	0.53
10:C2:67:HIS:HB3	10:C2:77:ILE:HD11	1.90	0.53
10:C2:146:VAL:HG21	10:C2:178:ILE:HD13	1.89	0.53
8:C5:56:ASN:CA	8:C5:199:GLY:CA	2.64	0.53
8:C5:82:PHE:CD1	8:C5:83:CYS:HA	2.40	0.53
10:C7:117:CYS:SG	10:C7:118:THR:HG23	2.49	0.53
9:CD:107:ALA:CB	9:CD:132:ILE:HG21	2.37	0.53
8:CM:105:THR:HG23	8:CM:145:VAL:HG13	1.89	0.53
10:CO:114:PHE:HD1	10:CO:215:GLU:N	2.06	0.53
10:CO:114:PHE:HD1	10:CO:215:GLU:H	1.56	0.53
10:CO:117:CYS:SG	10:CO:118:THR:HG23	2.49	0.53
8:CR:136:HIS:ND1	8:CR:146:TRP:HB2	2.23	0.53
8:Cb:82:PHE:CD1	8:Cb:83:CYS:HA	2.40	0.53
8:Cb:110:SER:OG	8:Cb:131:THR:HB	2.08	0.53
10:Cd:117:CYS:SG	10:Cd:118:THR:HG23	2.49	0.53
10:Ci:117:CYS:SG	10:Ci:118:THR:HG23	2.49	0.53
7:Cj:18:GLN:HE22	7:Cj:132:ASP:H	1.57	0.53
8:Cl:43:ASP:C	8:Cl:45:LYS:H	2.16	0.53
8:Cl:182:PRO:HD3	8:Cl:211:PRO:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cn:114:PHE:HD1	10:Cn:215:GLU:H	1.56	0.53
10:Cs:117:CYS:SG	10:Cs:118:THR:HG23	2.49	0.53
10:Cs:209:SER:HB2	10:Cs:211:GLU:HG2	1.91	0.53
5:Cu:51:ALA:HB3	5:Cu:52:PRO:CD	2.39	0.53
1:A5:22:LEU:HD13	1:A5:23:TRP:CH2	2.44	0.53
3:AA:125:GLN:HB3	4:AB:7:LEU:HD13	1.90	0.53
1:AC:18:GLN:NE2	1:AC:131:TYR:HA	2.24	0.53
3:AK:125:GLN:HB3	4:AL:7:LEU:HD13	1.90	0.53
4:AL:123:ARG:HD3	4:AL:123:ARG:H	1.73	0.53
3:AO:15:ILE:C	3:AO:17:HIS:N	2.67	0.53
2:AS:86:THR:HG22	2:AS:88:ASP:OD1	2.09	0.53
1:Ab:22:LEU:HD13	1:Ab:23:TRP:CH2	2.44	0.53
3:Aj:125:GLN:HB3	4:Ak:7:LEU:HD13	1.90	0.53
4:Ap:56:THR:HA	4:Ap:61:PHE:CD2	2.44	0.53
3:At:102:ILE:HG12	3:At:150:LEU:CB	2.38	0.53
3:Ax:53:PHE:HB2	3:Ax:58:ILE:HG21	1.91	0.53
4:B7:8:GLU:CD	4:B7:8:GLU:H	2.16	0.53
4:BA:79:LEU:HD12	4:BA:85:LEU:HD11	1.89	0.53
7:BB:18:GLN:NE2	7:BB:131:TYR:HA	2.24	0.53
4:BF:56:THR:HA	4:BF:61:PHE:CD2	2.44	0.53
4:BJ:109:PHE:CE2	4:BJ:113:ILE:HD11	2.44	0.53
7:BL:22:LEU:HD13	7:BL:23:TRP:CH2	2.44	0.53
5:BM:51:ALA:HB3	5:BM:52:PRO:CD	2.39	0.53
4:BO:78:THR:HG22	7:CK:72:LEU:HD13	1.91	0.53
4:BO:123:ARG:HD3	4:BO:123:ARG:H	1.74	0.53
4:BP:56:THR:HA	4:BP:61:PHE:CD2	2.44	0.53
7:BQ:22:LEU:HD13	7:BQ:23:TRP:CH2	2.44	0.53
5:BR:115:LEU:HB2	5:BR:143:ILE:HD11	1.90	0.53
7:BV:88:PRO:HG2	7:BV:89:PRO:HD3	1.90	0.53
5:Bb:115:LEU:HB2	5:Bb:143:ILE:HD11	1.90	0.53
7:Bf:18:GLN:NE2	7:Bf:131:TYR:HA	2.24	0.53
4:Bo:79:LEU:HD12	4:Bo:85:LEU:HD11	1.89	0.53
5:Bq:51:ALA:HB3	5:Bq:52:PRO:CD	2.39	0.53
4:Bs:78:THR:HG22	7:Co:72:LEU:HD13	1.91	0.53
4:Bt:56:THR:HA	4:Bt:61:PHE:CD2	2.44	0.53
7:Bu:22:LEU:HD13	7:Bu:23:TRP:CH2	2.44	0.53
5:Bv:115:LEU:HB2	5:Bv:143:ILE:HD11	1.90	0.53
9:CD:24:LEU:CD2	10:CE:24:ILE:HG23	2.18	0.53
9:CD:173:ASN:OD1	9:CD:176:SER:HB2	2.09	0.53
10:CE:192:PHE:HE1	10:CE:198:ASP:O	1.92	0.53
7:CF:18:GLN:HE22	7:CF:132:ASP:H	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CO:209:SER:HB2	10:CO:211:GLU:HG2	1.91	0.53
9:CS:41:ILE:O	10:CT:38:ARG:HB3	2.09	0.53
9:CX:23:ARG:CZ	10:Cx:18:ILE:HG13	2.38	0.53
10:CY:45:ARG:HH11	10:CY:45:ARG:CB	2.22	0.53
8:Cg:182:PRO:HB2	8:Cg:186:GLN:HE22	1.73	0.53
9:Ch:173:ASN:OD1	9:Ch:176:SER:HB2	2.09	0.53
10:Ci:192:PHE:HE1	10:Ci:198:ASP:O	1.92	0.53
8:Cl:14:VAL:HG11	10:Cn:13:ILE:CG2	2.11	0.53
8:Cl:42:VAL:HG21	8:Cl:46:THR:CG2	2.38	0.53
9:Cm:173:ASN:OD1	9:Cm:176:SER:HB2	2.09	0.53
10:Cn:117:CYS:SG	10:Cn:118:THR:HG23	2.49	0.53
7:Co:18:GLN:HE22	7:Co:132:ASP:H	1.57	0.53
9:Cw:41:ILE:O	10:Cx:38:ARG:HB3	2.09	0.53
1:A5:18:GLN:HE22	1:A5:132:ASP:H	1.56	0.52
2:AD:143:ILE:O	2:AD:146:ILE:HD12	2.09	0.52
3:AF:125:GLN:HB3	4:AG:7:LEU:HD13	1.90	0.52
3:AT:53:PHE:HB2	3:AT:58:ILE:HG21	1.91	0.52
3:AU:38:VAL:HA	3:AU:122:VAL:HG21	1.89	0.52
1:AW:18:GLN:HE22	1:AW:132:ASP:H	1.56	0.52
3:Ae:125:GLN:HB3	4:Af:7:LEU:HD13	1.90	0.52
1:Ag:18:GLN:NE2	1:Ag:131:TYR:HA	2.24	0.52
1:Ag:18:GLN:HE22	1:Ag:132:ASP:H	1.56	0.52
4:Ap:123:ARG:HD3	4:Ap:123:ARG:H	1.73	0.52
3:As:15:ILE:C	3:As:17:HIS:N	2.67	0.52
2:Aw:86:THR:HG22	2:Aw:88:ASP:OD1	2.09	0.52
4:B3:56:THR:HA	4:B3:61:PHE:CD2	2.44	0.52
7:B4:22:LEU:HD13	7:B4:23:TRP:CH2	2.44	0.52
5:BH:115:LEU:HB2	5:BH:143:ILE:HD11	1.90	0.52
4:BK:79:LEU:HD12	4:BK:85:LEU:HD11	1.89	0.52
4:BY:123:ARG:HD3	4:BY:123:ARG:H	1.74	0.52
4:BZ:56:THR:HA	4:BZ:61:PHE:CD2	2.44	0.52
4:Bi:56:THR:HA	4:Bi:61:PHE:CD2	2.43	0.52
5:Bl:115:LEU:HB2	5:Bl:143:ILE:HD11	1.90	0.52
7:Bp:22:LEU:HD13	7:Bp:23:TRP:CH2	2.44	0.52
4:Bs:123:ARG:HD3	4:Bs:123:ARG:H	1.74	0.52
7:Bz:88:PRO:HG2	7:Bz:89:PRO:HD3	1.90	0.52
10:C2:45:ARG:HH11	10:C2:45:ARG:CB	2.22	0.52
10:C2:209:SER:HB2	10:C2:211:GLU:HG2	1.91	0.52
9:C6:24:LEU:CD2	10:C7:24:ILE:HG23	2.18	0.52
8:CC:182:PRO:HD3	8:CC:211:PRO:HG3	1.91	0.52
9:CD:150:LEU:HD11	9:CD:165:SER:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:173:ASN:OD1	9:CI:176:SER:HB2	2.09	0.52
10:CJ:117:CYS:SG	10:CJ:118:THR:HG23	2.49	0.52
7:CK:18:GLN:HE22	7:CK:132:ASP:H	1.57	0.52
8:CM:110:SER:OG	8:CM:131:THR:HB	2.08	0.52
10:CO:125:MET:HE1	10:CO:204:ILE:HD11	1.90	0.52
8:CR:43:ASP:C	8:CR:45:LYS:CB	2.76	0.52
9:CS:92:ALA:HB3	9:CS:95:GLU:CG	2.20	0.52
10:CT:45:ARG:HH11	10:CT:45:ARG:CB	2.22	0.52
9:CX:150:LEU:HD11	9:CX:165:SER:HB3	1.91	0.52
10:CY:67:HIS:HB3	10:CY:77:ILE:HD11	1.90	0.52
10:CY:146:VAL:HG21	10:CY:178:ILE:HD13	1.89	0.52
10:CY:209:SER:HB2	10:CY:211:GLU:HG2	1.91	0.52
9:Cc:201:ASP:HB2	9:Cc:204:ARG:NE	2.15	0.52
8:Cg:182:PRO:HD3	8:Cg:211:PRO:HG3	1.91	0.52
9:Ch:150:LEU:HD11	9:Ch:165:SER:HB3	1.91	0.52
9:Ch:201:ASP:HB2	9:Ch:204:ARG:NE	2.15	0.52
8:Cv:43:ASP:C	8:Cv:45:LYS:H	2.16	0.52
10:Cx:117:CYS:SG	10:Cx:118:THR:HG23	2.49	0.52
2:AI:143:ILE:O	2:AI:146:ILE:HD12	2.09	0.52
3:AJ:123:LEU:N	3:AJ:124:PRO:HD2	2.25	0.52
3:AT:123:LEU:N	3:AT:124:PRO:HD2	2.25	0.52
2:Ah:143:ILE:O	2:Ah:146:ILE:HD12	2.09	0.52
2:Am:143:ILE:O	2:Am:146:ILE:HD12	2.09	0.52
3:An:123:LEU:N	3:An:124:PRO:HD2	2.25	0.52
3:Ao:125:GLN:HB3	4:Ap:7:LEU:HD13	1.90	0.52
3:Ax:123:LEU:N	3:Ax:124:PRO:HD2	2.25	0.52
4:B2:123:ARG:HD3	4:B2:123:ARG:H	1.74	0.52
7:B4:18:GLN:NE2	7:B4:131:TYR:HA	2.24	0.52
5:B5:51:ALA:HB3	5:B5:52:PRO:CD	2.39	0.52
5:B5:84:LEU:HA	5:B5:90:LEU:HD22	1.90	0.52
5:BC:115:LEU:HB2	5:BC:143:ILE:HD11	1.90	0.52
7:BG:22:LEU:HD13	7:BG:23:TRP:CH2	2.44	0.52
5:BH:62:TYR:HD2	5:CG:128:THR:O	1.92	0.52
4:BK:56:THR:HA	4:BK:61:PHE:CD2	2.44	0.52
4:BK:110:LYS:HG3	4:BK:134:ILE:CG2	2.37	0.52
7:Ba:22:LEU:HD13	7:Ba:23:TRP:CH2	2.44	0.52
7:Bf:99:ALA:HB3	7:Bf:150:ARG:HH11	1.74	0.52
5:Bl:62:TYR:HD2	5:Ck:128:THR:O	1.92	0.52
4:Bo:56:THR:HA	4:Bo:61:PHE:CD2	2.44	0.52
4:Bo:110:LYS:HG3	4:Bo:134:ILE:CG2	2.37	0.52
10:C7:192:PHE:HE1	10:C7:198:ASP:O	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:182:PRO:HB2	8:CC:186:GLN:HE22	1.73	0.52
9:CD:31:LEU:HD21	10:CE:31:VAL:CB	2.39	0.52
10:CJ:192:PHE:HE1	10:CJ:198:ASP:O	1.92	0.52
10:CT:117:CYS:SG	10:CT:118:THR:HG23	2.49	0.52
10:Cd:192:PHE:HE1	10:Cd:198:ASP:O	1.92	0.52
8:Cl:44:LYS:HE3	10:Cn:46:LYS:HZ1	1.69	0.52
10:Cn:192:PHE:HE1	10:Cn:198:ASP:O	1.92	0.52
8:Cq:110:SER:OG	8:Cq:131:THR:HB	2.08	0.52
9:Cr:82:VAL:HG23	9:Cr:88:ASP:OD2	2.08	0.52
10:Cx:45:ARG:HH11	10:Cx:45:ARG:CB	2.22	0.52
2:A1:143:ILE:O	2:A1:146:ILE:HD12	2.09	0.52
1:AC:18:GLN:HE22	1:AC:132:ASP:H	1.56	0.52
2:AD:86:THR:HG22	2:AD:88:ASP:OD1	2.09	0.52
3:AE:28:THR:HB	5:BC:89:MET:HE1	1.92	0.52
3:AO:123:LEU:N	3:AO:124:PRO:HD2	2.25	0.52
2:AX:143:ILE:O	2:AX:146:ILE:HD12	2.09	0.52
3:AY:28:THR:HB	5:BW:89:MET:HE1	1.92	0.52
1:Ab:18:GLN:HE22	1:Ab:132:ASP:H	1.56	0.52
2:Ah:86:THR:HG22	2:Ah:88:ASP:OD1	2.09	0.52
3:Ai:28:THR:HB	5:Bg:89:MET:HE1	1.92	0.52
4:B2:109:PHE:CE2	4:B2:113:ILE:HD11	2.44	0.52
4:BA:56:THR:HA	4:BA:61:PHE:CD2	2.44	0.52
7:BB:99:ALA:HB3	7:BB:150:ARG:HH11	1.74	0.52
4:BO:109:PHE:CE2	4:BO:113:ILE:HD11	2.44	0.52
5:BR:62:TYR:HD2	5:CQ:128:THR:O	1.92	0.52
4:BT:110:LYS:HG3	4:BT:134:ILE:CG2	2.36	0.52
4:BU:8:GLU:CD	4:BU:8:GLU:H	2.15	0.52
7:Ba:18:GLN:NE2	7:Ba:131:TYR:HA	2.24	0.52
5:Bb:51:ALA:HB3	5:Bb:52:PRO:CD	2.39	0.52
4:Be:56:THR:HA	4:Be:61:PHE:CD2	2.44	0.52
7:Bk:22:LEU:HD13	7:Bk:23:TRP:CH2	2.44	0.52
7:Bp:99:ALA:HB3	7:Bp:150:ARG:HH11	1.74	0.52
7:Bu:124:LEU:N	7:Bu:125:PRO:HD2	2.24	0.52
9:C1:138:ARG:HB2	9:C1:141:PHE:HB2	1.90	0.52
8:C5:175:LYS:HG2	8:C5:177:GLU:HB3	1.91	0.52
9:CD:201:ASP:HB2	9:CD:204:ARG:NE	2.15	0.52
8:CH:43:ASP:C	8:CH:45:LYS:H	2.16	0.52
8:CH:175:LYS:HG2	8:CH:177:GLU:HB3	1.91	0.52
8:CR:28:LEU:HD21	10:CT:27:SER:HB3	1.92	0.52
9:CX:138:ARG:HB2	9:CX:141:PHE:HB2	1.90	0.52
8:Cb:175:LYS:HG2	8:Cb:177:GLU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ch:31:LEU:HD21	10:Ci:31:VAL:CB	2.39	0.52
8:Cl:175:LYS:HG2	8:Cl:177:GLU:HB3	1.91	0.52
8:Cq:43:ASP:C	8:Cq:45:LYS:H	2.16	0.52
8:Cq:182:PRO:HB2	8:Cq:186:GLN:HE22	1.73	0.52
10:Cs:125:MET:HE1	10:Cs:204:ILE:HD11	1.90	0.52
8:Cv:28:LEU:HD21	10:Cx:27:SER:HB3	1.92	0.52
1:A0:18:GLN:HE22	1:A0:132:ASP:H	1.56	0.52
3:A2:28:THR:HB	5:B0:89:MET:HE1	1.92	0.52
3:A2:53:PHE:HB2	3:A2:58:ILE:HG21	1.91	0.52
4:A4:78:THR:HG22	4:A4:85:LEU:N	2.25	0.52
4:AB:78:THR:HG22	4:AB:85:LEU:N	2.25	0.52
1:AM:18:GLN:HE22	1:AM:132:ASP:H	1.56	0.52
1:AM:22:LEU:HD13	1:AM:23:TRP:CH2	2.44	0.52
4:AQ:78:THR:HG22	4:AQ:85:LEU:N	2.25	0.52
2:AX:18:LYS:HZ3	2:AX:85:ASP:HB2	1.74	0.52
3:AY:53:PHE:HB2	3:AY:58:ILE:HG21	1.91	0.52
4:Aa:78:THR:HG22	4:Aa:85:LEU:N	2.25	0.52
4:Af:78:THR:HG22	4:Af:85:LEU:N	2.25	0.52
3:As:123:LEU:N	3:As:124:PRO:HD2	2.25	0.52
4:Au:78:THR:HG22	4:Au:85:LEU:N	2.25	0.52
5:B5:62:TYR:HD2	5:C4:128:THR:O	1.92	0.52
7:BB:22:LEU:HD13	7:BB:23:TRP:CH2	2.44	0.52
4:BE:8:GLU:CD	4:BE:8:GLU:H	2.16	0.52
7:BL:99:ALA:HB3	7:BL:150:ARG:HH11	1.74	0.52
6:BN:15:ILE:C	6:BN:17:HIS:N	2.67	0.52
7:BQ:124:LEU:N	7:BQ:125:PRO:HD2	2.24	0.52
5:Bb:62:TYR:HD2	5:Ca:128:THR:O	1.92	0.52
5:Bb:84:LEU:HA	5:Bb:90:LEU:HD22	1.90	0.52
5:Bg:115:LEU:HB2	5:Bg:143:ILE:HD11	1.90	0.52
4:Bi:8:GLU:CD	4:Bi:8:GLU:H	2.16	0.52
7:Bp:124:LEU:N	7:Bp:125:PRO:HD2	2.24	0.52
6:Br:15:ILE:C	6:Br:17:HIS:N	2.67	0.52
5:Bv:62:TYR:HD2	5:Cu:128:THR:O	1.92	0.52
8:C0:182:PRO:HB2	8:C0:186:GLN:HE22	1.73	0.52
10:C2:117:CYS:SG	10:C2:118:THR:HG23	2.49	0.52
10:C2:125:MET:HE1	10:C2:204:ILE:HD11	1.90	0.52
10:C2:195:TYR:N	10:C2:195:TYR:CD1	2.75	0.52
5:C4:51:ALA:HB3	5:C4:52:PRO:CD	2.39	0.52
8:C5:21:ILE:HD13	10:C7:20:ARG:HD3	1.87	0.52
9:C6:31:LEU:HD21	10:C7:31:VAL:CB	2.38	0.52
9:C6:41:ILE:O	10:C7:38:ARG:HB3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:42:VAL:HG21	8:CC:46:THR:CG2	2.38	0.52
8:CC:172:ASN:C	8:CC:172:ASN:ND2	2.67	0.52
9:CD:41:ILE:O	10:CE:38:ARG:HB3	2.09	0.52
8:CH:172:ASN:C	8:CH:172:ASN:ND2	2.67	0.52
8:CM:28:LEU:HD21	10:CO:27:SER:HB3	1.91	0.52
8:CM:182:PRO:HB2	8:CM:186:GLN:HE22	1.73	0.52
9:CN:82:VAL:HG23	9:CN:88:ASP:OD2	2.08	0.52
10:CY:125:MET:HE1	10:CY:204:ILE:HD11	1.90	0.52
10:CY:195:TYR:CD1	10:CY:195:TYR:N	2.75	0.52
10:Cd:45:ARG:HH11	10:Cd:45:ARG:CB	2.22	0.52
8:Cg:172:ASN:C	8:Cg:172:ASN:ND2	2.67	0.52
8:Cl:172:ASN:C	8:Cl:172:ASN:ND2	2.67	0.52
9:Cm:41:ILE:O	10:Cn:38:ARG:HB3	2.09	0.52
8:Cq:175:LYS:HG2	8:Cq:177:GLU:HB3	1.91	0.52
9:Cw:92:ALA:HB3	9:Cw:95:GLU:CG	2.20	0.52
5:Cz:51:ALA:HB3	5:Cz:52:PRO:CD	2.39	0.52
2:AS:57:ARG:HH11	2:AS:57:ARG:HG2	1.75	0.52
1:Aq:22:LEU:HD13	1:Aq:23:TRP:CH2	2.44	0.52
2:Ar:84:LEU:CA	2:Ar:90:LEU:HD22	2.32	0.52
2:Aw:57:ARG:HH11	2:Aw:57:ARG:HG2	1.75	0.52
4:B2:39:ALA:HB1	10:C2:137:PHE:CZ	2.45	0.52
4:BF:41:VAL:HG23	4:BF:41:VAL:O	2.10	0.52
7:BL:124:LEU:N	7:BL:125:PRO:HD2	2.24	0.52
7:BV:124:LEU:N	7:BV:125:PRO:HD2	2.25	0.52
4:BY:39:ALA:HB1	10:CY:137:PHE:CZ	2.45	0.52
4:BY:76:ILE:CA	4:BY:79:LEU:HD23	2.25	0.52
4:BY:109:PHE:CE2	4:BY:113:ILE:HD11	2.44	0.52
7:Bf:22:LEU:HD13	7:Bf:23:TRP:CH2	2.44	0.52
4:Bs:109:PHE:CE2	4:Bs:113:ILE:HD11	2.44	0.52
5:Bv:51:ALA:HB3	5:Bv:52:PRO:CD	2.39	0.52
4:By:8:GLU:CD	4:By:8:GLU:H	2.15	0.52
7:Bz:124:LEU:N	7:Bz:125:PRO:HD2	2.25	0.52
10:C7:45:ARG:HH11	10:C7:45:ARG:CB	2.22	0.52
8:CH:9:ARG:O	8:CH:12:TYR:HB2	2.10	0.52
9:CI:41:ILE:O	10:CJ:38:ARG:HB3	2.09	0.52
8:CM:9:ARG:O	8:CM:12:TYR:HB2	2.10	0.52
8:CM:43:ASP:C	8:CM:45:LYS:H	2.16	0.52
8:CM:175:LYS:HG2	8:CM:177:GLU:HB3	1.91	0.52
8:CM:182:PRO:HD3	8:CM:211:PRO:HG3	1.91	0.52
5:CV:51:ALA:HB3	5:CV:52:PRO:CD	2.39	0.52
8:CW:110:SER:OG	8:CW:131:THR:HB	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CY:117:CYS:SG	10:CY:118:THR:HG23	2.49	0.52
5:Ca:51:ALA:HB3	5:Ca:52:PRO:CD	2.39	0.52
8:Cb:28:LEU:HD21	10:Cd:27:SER:HB3	1.91	0.52
8:Cb:136:HIS:HD1	8:Cb:146:TRP:HB2	1.75	0.52
9:Cc:31:LEU:HD21	10:Cd:31:VAL:CB	2.38	0.52
9:Cc:41:ILE:O	10:Cd:38:ARG:HB3	2.09	0.52
10:Cd:125:MET:HE1	10:Cd:204:ILE:HD11	1.90	0.52
8:Cg:42:VAL:HG21	8:Cg:46:THR:CG2	2.38	0.52
9:Ch:41:ILE:O	10:Ci:38:ARG:HB3	2.09	0.52
8:Cq:28:LEU:HD21	10:Cs:27:SER:HB3	1.91	0.52
9:Cr:137:ARG:HB2	9:Cr:141:PHE:CB	2.32	0.52
2:A1:86:THR:HG22	2:A1:88:ASP:OD1	2.09	0.52
1:AC:22:LEU:HD13	1:AC:23:TRP:CH2	2.44	0.52
2:AS:143:ILE:O	2:AS:146:ILE:HD12	2.09	0.52
2:Am:86:THR:HG22	2:Am:88:ASP:OD1	2.09	0.52
1:Aq:18:GLN:HE22	1:Aq:132:ASP:H	1.56	0.52
2:Aw:143:ILE:O	2:Aw:146:ILE:HD12	2.09	0.52
3:Ax:28:THR:HB	5:Bv:89:MET:HE1	1.92	0.52
6:B6:15:ILE:C	6:B6:17:HIS:N	2.67	0.52
7:BG:99:ALA:HB3	7:BG:150:ARG:HH11	1.74	0.52
4:BP:119:ALA:HB3	9:CS:80:LEU:HD13	1.91	0.52
7:BQ:33:ILE:HG13	7:BQ:72:LEU:HD21	1.91	0.52
5:BR:51:ALA:HB3	5:BR:52:PRO:CD	2.39	0.52
7:Ba:124:LEU:N	7:Ba:125:PRO:HD2	2.24	0.52
6:Bc:15:ILE:C	6:Bc:17:HIS:N	2.67	0.52
5:Bg:62:TYR:HD2	5:Cf:128:THR:O	1.92	0.52
4:Bj:41:VAL:O	4:Bj:41:VAL:HG23	2.10	0.52
4:Bo:8:GLU:CD	4:Bo:8:GLU:H	2.15	0.52
5:Bq:62:TYR:HD2	5:Cp:128:THR:O	1.92	0.52
4:Bs:8:GLU:CD	4:Bs:8:GLU:H	2.16	0.52
4:Bt:119:ALA:HB3	9:Cw:80:LEU:HD13	1.91	0.52
7:Bu:33:ILE:HG13	7:Bu:72:LEU:HD21	1.91	0.52
4:Bx:78:THR:HG22	7:Ct:72:LEU:HD13	1.91	0.52
4:Bx:110:LYS:HG3	4:Bx:134:ILE:CG2	2.36	0.52
8:C0:82:PHE:CD1	8:C0:83:CYS:HA	2.40	0.52
8:C5:18:ASN:C	10:C7:20:ARG:HH12	2.15	0.52
8:C5:28:LEU:HD21	10:C7:27:SER:HB3	1.91	0.52
10:CJ:192:PHE:CG	10:CJ:194:GLY:HA2	2.45	0.52
10:CO:67:HIS:HB3	10:CO:77:ILE:HD11	1.90	0.52
9:CS:18:ALA:C	9:CS:20:LEU:N	2.67	0.52
9:CS:38:ALA:HB3	10:CT:35:LEU:HD11	1.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CT:209:SER:HB2	10:CT:211:GLU:HG2	1.91	0.52
8:CW:175:LYS:HG2	8:CW:177:GLU:HB3	1.91	0.52
8:CW:182:PRO:HB2	8:CW:186:GLN:HE22	1.73	0.52
9:Cc:24:LEU:CD2	10:Cd:24:ILE:HG23	2.18	0.52
7:Ce:18:GLN:HE22	7:Ce:132:ASP:H	1.57	0.52
8:Cl:9:ARG:O	8:Cl:12:TYR:HB2	2.10	0.52
10:Cn:192:PHE:CG	10:Cn:194:GLY:HA2	2.45	0.52
8:Cq:9:ARG:O	8:Cq:12:TYR:HB2	2.10	0.52
8:Cq:182:PRO:HD3	8:Cq:211:PRO:HG3	1.91	0.52
3:A2:123:LEU:N	3:A2:124:PRO:HD2	2.25	0.52
2:AD:56:VAL:O	2:AD:57:ARG:C	2.53	0.52
1:AH:22:LEU:HD13	1:AH:23:TRP:CH2	2.44	0.52
2:AI:56:VAL:O	2:AI:57:ARG:C	2.53	0.52
2:AI:86:THR:HG22	2:AI:88:ASP:OD1	2.09	0.52
3:AT:28:THR:HB	5:BR:89:MET:HE1	1.92	0.52
2:AX:86:THR:HG22	2:AX:88:ASP:OD1	2.09	0.52
4:Aa:25:ASP:HA	8:Cb:78:HIS:NE2	2.25	0.52
3:Ad:28:THR:HB	5:Bb:89:MET:HE1	1.92	0.52
1:Ag:22:LEU:HD13	1:Ag:23:TRP:CH2	2.44	0.52
2:Ah:56:VAL:O	2:Ah:57:ARG:C	2.53	0.52
2:Am:56:VAL:O	2:Am:57:ARG:C	2.53	0.52
7:B4:124:LEU:N	7:B4:125:PRO:HD2	2.24	0.52
5:BC:62:TYR:HD2	5:CB:128:THR:O	1.92	0.52
4:BE:123:ARG:HD3	4:BE:123:ARG:H	1.74	0.52
7:BG:18:GLN:NE2	7:BG:131:TYR:HA	2.24	0.52
7:BG:33:ILE:HG13	7:BG:72:LEU:HD21	1.91	0.52
4:BJ:2:LYS:HB2	4:BJ:132:ALA:HB2	1.92	0.52
7:BL:18:GLN:NE2	7:BL:131:TYR:HA	2.24	0.52
7:BL:33:ILE:HG13	7:BL:72:LEU:HD21	1.91	0.52
4:BO:2:LYS:HB2	4:BO:132:ALA:HB2	1.92	0.52
7:BQ:18:GLN:NE2	7:BQ:131:TYR:HA	2.24	0.52
4:Bi:123:ARG:HD3	4:Bi:123:ARG:H	1.74	0.52
7:Bk:18:GLN:NE2	7:Bk:131:TYR:HA	2.24	0.52
7:Bk:33:ILE:HG13	7:Bk:72:LEU:HD21	1.91	0.52
4:Bn:2:LYS:HB2	4:Bn:132:ALA:HB2	1.92	0.52
4:Bn:110:LYS:HG3	4:Bn:134:ILE:CG2	2.36	0.52
7:Bp:33:ILE:HG13	7:Bp:72:LEU:HD21	1.91	0.52
4:Bs:2:LYS:HB2	4:Bs:132:ALA:HB2	1.92	0.52
8:C0:110:SER:OG	8:C0:131:THR:HB	2.08	0.52
9:C1:82:VAL:HG23	9:C1:88:ASP:OD2	2.08	0.52
10:C7:125:MET:HE1	10:C7:204:ILE:HD11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C7:192:PHE:CG	10:C7:194:GLY:HA2	2.45	0.52
7:CA:18:GLN:HE22	7:CA:132:ASP:H	1.57	0.52
8:CC:155:LEU:CD1	8:CC:161:THR:HB	2.36	0.52
8:CH:14:VAL:HG11	10:CJ:13:ILE:CG2	2.11	0.52
9:CI:150:LEU:HD11	9:CI:165:SER:HB3	1.91	0.52
9:CN:150:LEU:HD11	9:CN:165:SER:HB3	1.91	0.52
8:Cb:44:LYS:HE3	10:Cd:46:LYS:HZ1	1.72	0.52
9:Cc:173:ASN:OD1	9:Cc:176:SER:HB2	2.09	0.52
10:Cd:192:PHE:CG	10:Cd:194:GLY:HA2	2.45	0.52
9:Cr:150:LEU:HD11	9:Cr:165:SER:HB3	1.91	0.52
9:Cr:173:ASN:OD1	9:Cr:176:SER:HB2	2.09	0.52
10:Cs:67:HIS:HB3	10:Cs:77:ILE:HD11	1.90	0.52
9:Cw:18:ALA:C	9:Cw:20:LEU:N	2.67	0.52
4:A4:25:ASP:HA	8:C5:78:HIS:NE2	2.25	0.52
2:A6:86:THR:HG22	2:A6:88:ASP:OD1	2.09	0.52
3:A7:15:ILE:C	3:A7:17:HIS:N	2.67	0.52
3:A7:28:THR:HB	5:B5:89:MET:HE1	1.92	0.52
3:AJ:28:THR:HB	5:BH:89:MET:HE1	1.92	0.52
4:AL:25:ASP:HA	8:CM:78:HIS:NE2	2.25	0.52
2:AX:57:ARG:HH11	2:AX:57:ARG:HG2	1.75	0.52
3:AY:123:LEU:N	3:AY:124:PRO:HD2	2.25	0.52
1:Ab:129:ASP:OD1	1:Ab:129:ASP:N	2.39	0.52
3:Ad:15:ILE:C	3:Ad:17:HIS:N	2.67	0.52
1:Al:22:LEU:HD13	1:Al:23:TRP:CH2	2.44	0.52
3:An:28:THR:HB	5:Bl:89:MET:HE1	1.92	0.52
4:Ap:25:ASP:HA	8:Cq:78:HIS:NE2	2.25	0.52
3:As:28:THR:HB	5:Bq:89:MET:HE1	1.92	0.52
2:Aw:56:VAL:O	2:Aw:57:ARG:C	2.53	0.52
4:BA:119:ALA:HB3	9:CD:80:LEU:HD13	1.91	0.52
7:BB:124:LEU:N	7:BB:125:PRO:HD2	2.24	0.52
7:BG:124:LEU:N	7:BG:125:PRO:HD2	2.25	0.52
4:BJ:78:THR:HG22	7:CF:72:LEU:HD13	1.91	0.52
4:BJ:110:LYS:HG3	4:BJ:134:ILE:CG2	2.36	0.52
5:BM:62:TYR:HD2	5:CL:128:THR:O	1.92	0.52
6:BN:53:PHE:HB2	6:BN:58:ILE:HG21	1.92	0.52
4:BO:8:GLU:CD	4:BO:8:GLU:H	2.16	0.52
4:BT:78:THR:HG22	7:CP:72:LEU:HD13	1.91	0.52
7:BV:18:GLN:NE2	7:BV:131:TYR:HA	2.24	0.52
7:Bf:124:LEU:N	7:Bf:125:PRO:HD2	2.24	0.52
7:Bk:99:ALA:HB3	7:Bk:150:ARG:HH11	1.74	0.52
7:Bk:124:LEU:N	7:Bk:125:PRO:HD2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bo:119:ALA:HB3	9:Cr:80:LEU:HD13	1.92	0.52
7:Bp:18:GLN:NE2	7:Bp:131:TYR:HA	2.24	0.52
7:Bu:18:GLN:NE2	7:Bu:131:TYR:HA	2.24	0.52
6:Bw:27:PHE:CD2	7:Ct:27:GLU:HG3	2.40	0.52
6:Bw:53:PHE:HB2	6:Bw:58:ILE:HG21	1.92	0.52
4:By:56:THR:HA	4:By:61:PHE:CD2	2.44	0.52
7:Bz:18:GLN:NE2	7:Bz:131:TYR:HA	2.24	0.52
8:C0:175:LYS:HG2	8:C0:177:GLU:HB3	1.91	0.52
8:C5:44:LYS:HE3	10:C7:46:LYS:HZ1	1.72	0.52
9:C6:173:ASN:OD1	9:C6:176:SER:HB2	2.09	0.52
5:CB:51:ALA:HB3	5:CB:52:PRO:CD	2.39	0.52
9:CD:13:ARG:CZ	10:CE:14:ILE:CG1	2.83	0.52
9:CN:137:ARG:HB2	9:CN:141:PHE:CB	2.32	0.52
9:CN:173:ASN:OD1	9:CN:176:SER:HB2	2.09	0.52
9:CS:11:ASP:N	9:CS:12:PRO:HD2	2.24	0.52
9:CX:82:VAL:HG23	9:CX:88:ASP:OD2	2.08	0.52
9:Cm:150:LEU:HD11	9:Cm:165:SER:HB3	1.91	0.52
9:Cr:16:ALA:C	9:Cr:18:ALA:N	2.68	0.52
10:Cs:45:ARG:HH11	10:Cs:45:ARG:CB	2.22	0.52
8:Cv:43:ASP:C	8:Cv:45:LYS:CB	2.76	0.52
9:Cw:11:ASP:N	9:Cw:12:PRO:HD2	2.24	0.52
10:Cx:209:SER:HB2	10:Cx:211:GLU:HG2	1.91	0.52
2:A1:57:ARG:HH11	2:A1:57:ARG:HG2	1.75	0.52
1:A5:18:GLN:NE2	1:A5:131:TYR:HA	2.24	0.52
2:AN:84:LEU:CA	2:AN:90:LEU:HD22	2.32	0.52
3:AO:28:THR:HB	5:BM:89:MET:HE1	1.92	0.52
2:AS:56:VAL:O	2:AS:57:ARG:C	2.53	0.52
2:Ac:86:THR:HG22	2:Ac:88:ASP:OD1	2.09	0.52
2:Ac:143:ILE:O	2:Ac:146:ILE:HD12	2.09	0.52
4:BJ:39:ALA:HB1	10:CJ:137:PHE:CZ	2.45	0.52
4:BK:8:GLU:CD	4:BK:8:GLU:H	2.15	0.52
4:BK:119:ALA:HB3	9:CN:80:LEU:HD13	1.92	0.52
4:BP:110:LYS:HG3	4:BP:134:ILE:CG2	2.37	0.52
6:BS:53:PHE:HB2	6:BS:58:ILE:HG21	1.92	0.52
4:BU:56:THR:HA	4:BU:61:PHE:CD2	2.44	0.52
4:BU:120:GLN:HG2	9:CX:80:LEU:CD1	2.31	0.52
4:Be:119:ALA:HB3	9:Ch:80:LEU:HD13	1.91	0.52
4:Bn:8:GLU:CD	4:Bn:8:GLU:H	2.16	0.52
4:Bn:78:THR:HG22	7:Cj:72:LEU:HD13	1.91	0.52
6:Br:53:PHE:HB2	6:Br:58:ILE:HG21	1.92	0.52
4:By:120:GLN:HG2	9:C1:80:LEU:CD1	2.31	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C7:209:SER:HB2	10:C7:211:GLU:HG2	1.91	0.52
8:CC:202:ASP:HB2	8:CC:203:HIS:ND1	2.25	0.52
10:CE:45:ARG:HH11	10:CE:45:ARG:CB	2.22	0.52
10:CE:62:CYS:SG	10:CE:68:GLN:HB2	2.50	0.52
5:CL:56:VAL:O	5:CL:57:ARG:C	2.53	0.52
8:CM:172:ASN:C	8:CM:172:ASN:ND2	2.67	0.52
9:CN:16:ALA:C	9:CN:18:ALA:N	2.68	0.52
10:CO:45:ARG:HH11	10:CO:45:ARG:CB	2.22	0.52
7:CU:18:GLN:HE22	7:CU:132:ASP:H	1.57	0.52
5:CV:18:LYS:HD2	5:CV:85:ASP:HB2	1.92	0.52
8:CW:44:LYS:HE3	10:CY:46:LYS:HZ1	1.71	0.52
8:CW:82:PHE:CD1	8:CW:83:CYS:HA	2.40	0.52
9:CX:46:PHE:CD1	9:CX:46:PHE:C	2.88	0.52
8:Cb:18:ASN:C	10:Cd:20:ARG:HH12	2.15	0.52
8:Cb:182:PRO:HD3	8:Cb:211:PRO:HG3	1.91	0.52
5:Cf:51:ALA:HB3	5:Cf:52:PRO:CD	2.39	0.52
8:Cg:202:ASP:HB2	8:Cg:203:HIS:ND1	2.25	0.52
10:Ci:45:ARG:HH11	10:Ci:45:ARG:CB	2.22	0.52
10:Ci:62:CYS:SG	10:Ci:68:GLN:HB2	2.50	0.52
5:Cp:56:VAL:O	5:Cp:57:ARG:C	2.53	0.52
9:Cw:38:ALA:HB3	10:Cx:35:LEU:HD11	1.87	0.52
7:Cy:18:GLN:HE22	7:Cy:132:ASP:H	1.57	0.52
5:Cz:18:LYS:HD2	5:Cz:85:ASP:HB2	1.92	0.52
3:A3:125:GLN:HB3	4:A4:7:LEU:HD13	1.90	0.52
1:A5:129:ASP:OD1	1:A5:129:ASP:N	2.39	0.52
4:AG:78:THR:HG22	4:AG:85:LEU:N	2.25	0.52
2:Ah:57:ARG:HH11	2:Ah:57:ARG:HG2	1.75	0.52
4:Ak:78:THR:HG22	4:Ak:85:LEU:N	2.25	0.52
4:Az:78:THR:HG22	4:Az:85:LEU:N	2.25	0.52
5:B0:62:TYR:HD2	5:Cz:128:THR:O	1.92	0.52
6:B1:53:PHE:HB2	6:B1:58:ILE:HG21	1.92	0.52
4:B7:2:LYS:HB3	4:B7:132:ALA:HB2	1.92	0.52
4:BK:41:VAL:O	4:BK:41:VAL:HG23	2.10	0.52
4:BT:39:ALA:HB1	10:CT:137:PHE:CZ	2.45	0.52
6:BX:53:PHE:HB2	6:BX:58:ILE:HG21	1.92	0.52
7:Ba:99:ALA:HB3	7:Ba:150:ARG:HH11	1.74	0.52
4:Bd:2:LYS:HB3	4:Bd:132:ALA:HB2	1.92	0.52
4:Bn:39:ALA:HB1	10:Cn:137:PHE:CZ	2.45	0.52
4:Bs:39:ALA:HB1	10:Cs:137:PHE:CZ	2.45	0.52
4:Bt:110:LYS:HG3	4:Bt:134:ILE:CG2	2.37	0.52
9:C1:11:ASP:N	9:C1:12:PRO:HD2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C1:46:PHE:C	9:C1:46:PHE:CD1	2.88	0.52
5:C4:18:LYS:HD2	5:C4:85:ASP:HB2	1.92	0.52
7:CA:124:LEU:N	7:CA:125:PRO:HD2	2.25	0.52
8:CH:44:LYS:HE3	10:CJ:46:LYS:HZ1	1.69	0.52
8:CH:202:ASP:HB2	8:CH:203:HIS:ND1	2.25	0.52
10:CJ:62:CYS:SG	10:CJ:68:GLN:HB2	2.50	0.52
5:Ca:18:LYS:HD2	5:Ca:85:ASP:HB2	1.92	0.52
8:Cb:172:ASN:C	8:Cb:172:ASN:ND2	2.67	0.52
10:Cd:209:SER:HB2	10:Cd:211:GLU:HG2	1.91	0.52
7:Ce:124:LEU:N	7:Ce:125:PRO:HD2	2.25	0.52
9:Ch:13:ARG:CZ	10:Ci:14:ILE:CG1	2.83	0.52
9:Cm:18:ALA:C	9:Cm:20:LEU:N	2.67	0.52
10:Cn:62:CYS:SG	10:Cn:68:GLN:HB2	2.50	0.52
2:A6:143:ILE:O	2:A6:146:ILE:HD12	2.09	0.51
2:AD:57:ARG:HH11	2:AD:57:ARG:HG2	1.75	0.51
4:AG:25:ASP:HA	8:CH:78:HIS:NE2	2.25	0.51
3:AJ:15:ILE:C	3:AJ:17:HIS:N	2.67	0.51
2:AN:143:ILE:O	2:AN:146:ILE:HD12	2.09	0.51
4:AV:78:THR:HG22	4:AV:85:LEU:N	2.25	0.51
1:Ab:18:GLN:NE2	1:Ab:131:TYR:HA	2.24	0.51
2:Ah:18:LYS:HZ2	2:Ah:82:SER:HA	1.75	0.51
4:Ak:25:ASP:HA	8:Cl:78:HIS:NE2	2.25	0.51
4:B2:76:ILE:CA	4:B2:79:LEU:HD23	2.25	0.51
7:B4:99:ALA:HB3	7:B4:150:ARG:HH11	1.74	0.51
4:BA:41:VAL:O	4:BA:41:VAL:HG23	2.10	0.51
4:BF:79:LEU:HD12	4:BF:85:LEU:HD11	1.89	0.51
6:BI:53:PHE:HB2	6:BI:58:ILE:HG21	1.92	0.51
4:BO:39:ALA:HB1	10:CO:137:PHE:CZ	2.45	0.51
5:BW:62:TYR:HD2	5:CV:128:THR:O	1.92	0.51
4:BY:2:LYS:HB3	4:BY:132:ALA:HB2	1.92	0.51
4:Bj:79:LEU:HD12	4:Bj:85:LEU:HD11	1.89	0.51
4:Bo:41:VAL:HG23	4:Bo:41:VAL:O	2.10	0.51
4:Bx:39:ALA:HB1	10:Cx:137:PHE:CZ	2.45	0.51
9:C1:23:ARG:CD	10:CT:18:ILE:HD11	2.40	0.51
5:C4:81:ILE:O	5:C4:84:LEU:HB2	2.10	0.51
8:C5:182:PRO:HD3	8:C5:211:PRO:HG3	1.91	0.51
8:CC:28:LEU:HD21	10:CE:27:SER:HB3	1.92	0.51
9:CI:23:ARG:CD	10:Ci:18:ILE:HD11	2.40	0.51
10:CO:62:CYS:SG	10:CO:68:GLN:HB2	2.50	0.51
9:CX:11:ASP:N	9:CX:12:PRO:HD2	2.24	0.51
9:CX:23:ARG:CD	10:Cx:18:ILE:HD11	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cd:62:CYS:SG	10:Cd:68:GLN:HB2	2.50	0.51
8:Cg:9:ARG:O	8:Cg:12:TYR:HB2	2.10	0.51
8:Cg:28:LEU:HD21	10:Ci:27:SER:HB3	1.92	0.51
8:Cg:155:LEU:CD1	8:Cg:161:THR:HB	2.36	0.51
8:Cl:202:ASP:HB2	8:Cl:203:HIS:ND1	2.25	0.51
10:Cs:62:CYS:SG	10:Cs:68:GLN:HB2	2.50	0.51
8:Cv:18:ASN:C	10:Cx:20:ARG:HH12	2.15	0.51
9:Cw:150:LEU:HD11	9:Cw:165:SER:HB3	1.91	0.51
3:AZ:125:GLN:HB3	4:Aa:7:LEU:HD13	1.90	0.51
3:An:15:ILE:C	3:An:17:HIS:N	2.67	0.51
4:BE:78:THR:HG22	7:CA:72:LEU:HD13	1.91	0.51
6:BS:15:ILE:C	6:BS:17:HIS:N	2.67	0.51
6:BS:27:PHE:CD2	7:CP:27:GLU:HG3	2.40	0.51
6:BS:78:LYS:NZ	5:CQ:31:ARG:HH22	2.09	0.51
4:BZ:96:HIS:CE1	4:BZ:141:ILE:CG2	2.94	0.51
6:Bm:53:PHE:HB2	6:Bm:58:ILE:HG21	1.92	0.51
6:Bw:15:ILE:C	6:Bw:17:HIS:N	2.67	0.51
6:Bw:78:LYS:NZ	5:Cu:31:ARG:HH22	2.09	0.51
8:C0:28:LEU:HD21	10:C2:27:SER:HB3	1.92	0.51
8:C0:44:LYS:HE3	10:C2:46:LYS:HZ1	1.71	0.51
9:C1:57:ILE:HD12	10:C2:57:LEU:HD12	1.81	0.51
5:C4:56:VAL:O	5:C4:57:ARG:C	2.53	0.51
8:C5:172:ASN:C	8:C5:172:ASN:ND2	2.67	0.51
10:C7:62:CYS:SG	10:C7:68:GLN:HB2	2.50	0.51
8:CC:9:ARG:O	8:CC:12:TYR:HB2	2.10	0.51
10:CE:18:ILE:HD11	9:Cm:23:ARG:CD	2.40	0.51
5:CG:56:VAL:O	5:CG:57:ARG:C	2.53	0.51
7:CK:124:LEU:N	7:CK:125:PRO:HD2	2.25	0.51
5:CQ:18:LYS:HD2	5:CQ:85:ASP:HB2	1.92	0.51
5:CQ:56:VAL:O	5:CQ:57:ARG:C	2.53	0.51
8:CR:14:VAL:HG21	10:CT:13:ILE:CD1	2.41	0.51
8:CR:202:ASP:HB2	8:CR:203:HIS:ND1	2.25	0.51
9:CS:46:PHE:C	9:CS:46:PHE:CD1	2.88	0.51
10:CT:192:PHE:CG	10:CT:194:GLY:HA2	2.45	0.51
7:CU:18:GLN:NE2	7:CU:131:TYR:HA	2.26	0.51
5:CV:81:ILE:O	5:CV:84:LEU:HB2	2.10	0.51
8:CW:148:ARG:HG3	8:CW:148:ARG:NH1	2.22	0.51
5:Ca:81:ILE:O	5:Ca:84:LEU:HB2	2.10	0.51
9:Cc:46:PHE:C	9:Cc:46:PHE:CD1	2.88	0.51
9:Cm:17:ASN:OD1	10:Cn:17:LEU:CD1	2.30	0.51
7:Co:124:LEU:N	7:Co:125:PRO:HD2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cq:148:ARG:HG3	8:Cq:148:ARG:NH1	2.22	0.51
8:Cq:172:ASN:C	8:Cq:172:ASN:ND2	2.67	0.51
10:Cs:192:PHE:HE1	10:Cs:198:ASP:O	1.92	0.51
7:Ct:124:LEU:N	7:Ct:125:PRO:HD2	2.25	0.51
8:Cv:14:VAL:HG21	10:Cx:13:ILE:CD1	2.41	0.51
8:Cv:202:ASP:HB2	8:Cv:203:HIS:ND1	2.25	0.51
9:Cw:57:ILE:CD1	10:Cx:54:VAL:HG13	2.25	0.51
7:Cy:18:GLN:NE2	7:Cy:131:TYR:HA	2.26	0.51
5:Cz:81:ILE:O	5:Cz:84:LEU:HB2	2.10	0.51
1:A0:124:LEU:N	1:A0:125:PRO:HD2	2.26	0.51
4:A4:109:PHE:CE2	4:A4:113:ILE:HD11	2.46	0.51
3:AA:123:LEU:N	3:AA:124:PRO:HD2	2.26	0.51
3:AE:123:LEU:N	3:AE:124:PRO:HD2	2.25	0.51
4:AQ:109:PHE:CE2	4:AQ:113:ILE:HD11	2.46	0.51
1:AW:124:LEU:N	1:AW:125:PRO:HD2	2.26	0.51
3:AY:102:ILE:CG1	3:AY:150:LEU:HA	2.28	0.51
4:Aa:109:PHE:CE2	4:Aa:113:ILE:HD11	2.46	0.51
3:Ae:123:LEU:N	3:Ae:124:PRO:HD2	2.26	0.51
3:Ai:123:LEU:N	3:Ai:124:PRO:HD2	2.25	0.51
2:Ar:143:ILE:O	2:Ar:146:ILE:HD12	2.09	0.51
4:Au:109:PHE:CE2	4:Au:113:ILE:HD11	2.46	0.51
4:B2:2:LYS:HB3	4:B2:132:ALA:HB2	1.92	0.51
4:B3:96:HIS:CE1	4:B3:141:ILE:CG2	2.94	0.51
6:B6:78:LYS:NZ	5:C4:31:ARG:HH22	2.09	0.51
6:BD:78:LYS:NZ	5:CB:31:ARG:HH22	2.09	0.51
4:BF:96:HIS:CE1	4:BF:141:ILE:CG2	2.94	0.51
6:BI:15:ILE:C	6:BI:17:HIS:N	2.67	0.51
4:BJ:8:GLU:CD	4:BJ:8:GLU:H	2.16	0.51
6:BS:79:LEU:HD13	6:BS:79:LEU:O	2.10	0.51
4:BU:96:HIS:CE1	4:BU:141:ILE:CG2	2.94	0.51
6:Bc:78:LYS:NZ	5:Ca:31:ARG:HH22	2.09	0.51
4:Be:41:VAL:O	4:Be:41:VAL:HG23	2.10	0.51
6:Bh:53:PHE:HB2	6:Bh:58:ILE:HG21	1.92	0.51
6:Bh:78:LYS:NZ	5:Cf:31:ARG:HH22	2.09	0.51
4:Bj:96:HIS:CE1	4:Bj:141:ILE:CG2	2.94	0.51
6:Bm:15:ILE:C	6:Bm:17:HIS:N	2.67	0.51
8:C0:148:ARG:HG3	8:C0:148:ARG:NH1	2.22	0.51
7:C3:18:GLN:NE2	7:C3:131:TYR:HA	2.26	0.51
8:C5:202:ASP:HB2	8:C5:203:HIS:ND1	2.25	0.51
9:C6:46:PHE:C	9:C6:46:PHE:CD1	2.88	0.51
7:CA:18:GLN:NE2	7:CA:131:TYR:HA	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CE:192:PHE:CG	10:CE:194:GLY:HA2	2.45	0.51
9:CI:18:ALA:C	9:CI:20:LEU:N	2.67	0.51
8:CM:148:ARG:HG3	8:CM:148:ARG:NH1	2.22	0.51
8:CM:202:ASP:HB2	8:CM:203:HIS:ND1	2.25	0.51
10:CO:192:PHE:HE1	10:CO:198:ASP:O	1.92	0.51
7:CP:124:LEU:N	7:CP:125:PRO:HD2	2.25	0.51
8:CR:182:PRO:HD3	8:CR:211:PRO:HG3	1.91	0.51
9:CS:150:LEU:HD11	9:CS:165:SER:HB3	1.91	0.51
9:CX:41:ILE:O	10:CY:38:ARG:HB3	2.09	0.51
9:CX:109:ASN:HB3	9:CX:225:LEU:HD11	1.86	0.51
9:CX:173:ASN:OD1	9:CX:176:SER:HB2	2.09	0.51
7:CZ:18:GLN:NE2	7:CZ:131:TYR:HA	2.26	0.51
5:Ca:56:VAL:O	5:Ca:57:ARG:C	2.53	0.51
8:Cb:202:ASP:HB2	8:Cb:203:HIS:ND1	2.25	0.51
7:Ce:18:GLN:NE2	7:Ce:131:TYR:HA	2.26	0.51
8:Cl:213:SER:OG	8:Cl:215:PHE:HB2	2.11	0.51
7:Ct:18:GLN:HE22	7:Ct:132:ASP:H	1.57	0.51
5:Cu:18:LYS:HD2	5:Cu:85:ASP:HB2	1.92	0.51
5:Cu:56:VAL:O	5:Cu:57:ARG:C	2.53	0.51
9:Cw:46:PHE:C	9:Cw:46:PHE:CD1	2.88	0.51
10:Cx:192:PHE:CG	10:Cx:194:GLY:HA2	2.45	0.51
7:Cy:129:ASP:OD1	7:Cy:129:ASP:N	2.37	0.51
1:A5:124:LEU:N	1:A5:125:PRO:HD2	2.26	0.51
4:AG:4:CYS:SG	4:AG:136:HIS:HB2	2.51	0.51
1:AR:124:LEU:N	1:AR:125:PRO:HD2	2.26	0.51
4:Ak:4:CYS:SG	4:Ak:136:HIS:HB2	2.51	0.51
3:Ao:123:LEU:N	3:Ao:124:PRO:HD2	2.26	0.51
1:Av:124:LEU:N	1:Av:125:PRO:HD2	2.26	0.51
6:B1:123:LEU:N	6:B1:124:PRO:HD2	2.25	0.51
4:B3:110:LYS:HG3	4:B3:134:ILE:CG2	2.37	0.51
6:B6:53:PHE:HB2	6:B6:58:ILE:HG21	1.92	0.51
4:BA:96:HIS:CE1	4:BA:141:ILE:CG2	2.94	0.51
6:BD:53:PHE:HB2	6:BD:58:ILE:HG21	1.92	0.51
6:BI:79:LEU:O	6:BI:79:LEU:HD13	2.10	0.51
4:BU:119:ALA:HB3	9:CX:80:LEU:HD13	1.91	0.51
6:Bc:53:PHE:HB2	6:Bc:58:ILE:HG21	1.92	0.51
6:Bc:79:LEU:HD13	6:Bc:79:LEU:O	2.10	0.51
4:Be:96:HIS:CE1	4:Be:141:ILE:CG2	2.94	0.51
4:Bi:78:THR:HG22	7:Ce:72:LEU:HD13	1.91	0.51
6:Bm:79:LEU:HD13	6:Bm:79:LEU:O	2.10	0.51
6:Bw:79:LEU:HD13	6:Bw:79:LEU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:By:79:LEU:HD12	4:By:85:LEU:HD11	1.89	0.51
4:By:96:HIS:CE1	4:By:141:ILE:CG2	2.94	0.51
8:C0:14:VAL:HG21	10:C2:13:ILE:CD1	2.41	0.51
9:C1:173:ASN:OD1	9:C1:176:SER:HB2	2.09	0.51
7:C3:124:LEU:N	7:C3:125:PRO:HD2	2.25	0.51
9:C6:16:ALA:C	9:C6:18:ALA:N	2.68	0.51
7:CF:18:GLN:NE2	7:CF:131:TYR:HA	2.26	0.51
7:CF:124:LEU:N	7:CF:125:PRO:HD2	2.25	0.51
8:CH:213:SER:OG	8:CH:215:PHE:HB2	2.11	0.51
9:CI:17:ASN:OD1	10:CJ:17:LEU:CD1	2.30	0.51
7:CK:146:LYS:HA	7:CK:149:SER:OG	2.11	0.51
8:CM:14:VAL:HG21	10:CO:13:ILE:CD1	2.41	0.51
9:CN:41:ILE:O	10:CO:38:ARG:HB3	2.09	0.51
7:CP:18:GLN:HE22	7:CP:132:ASP:H	1.57	0.51
8:CR:18:ASN:C	10:CT:20:ARG:HH12	2.15	0.51
9:CS:16:ALA:C	9:CS:18:ALA:N	2.68	0.51
9:CS:28:ILE:HD13	10:CT:28:ILE:HD11	1.93	0.51
9:CS:173:ASN:OD1	9:CS:176:SER:HB2	2.09	0.51
7:CU:129:ASP:OD1	7:CU:129:ASP:N	2.37	0.51
8:CW:14:VAL:HG21	10:CY:13:ILE:CD1	2.41	0.51
8:CW:28:LEU:HD21	10:CY:27:SER:HB3	1.92	0.51
10:CY:192:PHE:HE1	10:CY:198:ASP:O	1.92	0.51
5:Cf:18:LYS:HD2	5:Cf:85:ASP:HB2	1.92	0.51
10:Ci:192:PHE:CG	10:Ci:194:GLY:HA2	2.45	0.51
7:Cj:18:GLN:NE2	7:Cj:131:TYR:HA	2.26	0.51
7:Cj:124:LEU:N	7:Cj:125:PRO:HD2	2.25	0.51
5:Ck:56:VAL:O	5:Ck:57:ARG:C	2.53	0.51
8:Cl:18:ASN:HB3	10:Cn:16:LYS:HZ3	1.68	0.51
9:Cm:46:PHE:C	9:Cm:46:PHE:CD1	2.88	0.51
7:Co:146:LYS:HA	7:Co:149:SER:OG	2.11	0.51
8:Cq:202:ASP:HB2	8:Cq:203:HIS:ND1	2.25	0.51
8:Cv:148:ARG:HG3	8:Cv:148:ARG:NH1	2.22	0.51
9:Cw:28:ILE:HD13	10:Cx:28:ILE:HD11	1.93	0.51
2:A6:56:VAL:O	2:A6:57:ARG:C	2.53	0.51
3:AE:15:ILE:C	3:AE:17:HIS:N	2.67	0.51
3:AF:123:LEU:N	3:AF:124:PRO:HD2	2.26	0.51
4:AG:51:VAL:HG22	4:AG:51:VAL:O	2.11	0.51
3:AK:123:LEU:N	3:AK:124:PRO:HD2	2.26	0.51
1:Ab:124:LEU:N	1:Ab:125:PRO:HD2	2.26	0.51
4:Af:25:ASP:HA	8:Cg:78:HIS:NE2	2.25	0.51
3:Aj:123:LEU:N	3:Aj:124:PRO:HD2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ak:51:VAL:HG22	4:Ak:51:VAL:O	2.11	0.51
1:Al:18:GLN:HE22	1:Al:132:ASP:H	1.56	0.51
2:Ar:57:ARG:HG2	2:Ar:57:ARG:HH11	1.75	0.51
4:B2:120:GLN:HG2	10:C2:80:LEU:CD1	2.41	0.51
6:B6:79:LEU:HD13	6:B6:79:LEU:O	2.10	0.51
6:BX:123:LEU:N	6:BX:124:PRO:HD2	2.25	0.51
4:Bx:5:GLY:O	4:Bx:8:GLU:HG2	2.11	0.51
4:By:119:ALA:HB3	9:C1:80:LEU:HD13	1.91	0.51
9:C1:28:ILE:HD13	10:C2:28:ILE:HD11	1.93	0.51
9:C1:41:ILE:O	10:C2:38:ARG:HB3	2.09	0.51
10:C2:192:PHE:HE1	10:C2:198:ASP:O	1.92	0.51
8:C5:9:ARG:O	8:C5:12:TYR:HB2	2.10	0.51
10:C7:18:ILE:HD11	9:CN:23:ARG:CD	2.40	0.51
5:CB:18:LYS:HD2	5:CB:85:ASP:HB2	1.92	0.51
5:CB:56:VAL:O	5:CB:57:ARG:C	2.53	0.51
8:CC:114:LEU:HD12	8:CC:126:ASP:O	2.11	0.51
9:CI:46:PHE:CD1	9:CI:46:PHE:C	2.88	0.51
8:CR:136:HIS:HD1	8:CR:146:TRP:HB2	1.75	0.51
8:CW:136:HIS:HD1	8:CW:146:TRP:HB2	1.75	0.51
8:CW:182:PRO:HD3	8:CW:211:PRO:HG3	1.91	0.51
9:CX:57:ILE:HD12	10:CY:57:LEU:HD12	1.81	0.51
7:CZ:124:LEU:N	7:CZ:125:PRO:HD2	2.25	0.51
8:Cb:9:ARG:O	8:Cb:12:TYR:HB2	2.10	0.51
9:Cc:28:ILE:HD13	10:Cd:28:ILE:HD11	1.93	0.51
10:Cd:18:ILE:HD11	9:Cr:23:ARG:CD	2.40	0.51
5:Cf:56:VAL:O	5:Cf:57:ARG:C	2.53	0.51
9:Ch:46:PHE:CD1	9:Ch:46:PHE:C	2.88	0.51
8:Cl:18:ASN:C	10:Cn:20:ARG:NH1	2.67	0.51
8:Cq:14:VAL:HG21	10:Cs:13:ILE:CD1	2.41	0.51
8:Cv:175:LYS:HG2	8:Cv:177:GLU:HB3	1.91	0.51
8:Cv:182:PRO:HD3	8:Cv:211:PRO:HG3	1.91	0.51
10:Cx:62:CYS:SG	10:Cx:68:GLN:HB2	2.50	0.51
3:A2:102:ILE:CG1	3:A2:150:LEU:HA	2.28	0.51
4:AB:25:ASP:HA	8:CC:78:HIS:NE2	2.25	0.51
4:AB:51:VAL:HG22	4:AB:51:VAL:O	2.11	0.51
1:AC:124:LEU:N	1:AC:125:PRO:HD2	2.26	0.51
2:AN:56:VAL:O	2:AN:57:ARG:C	2.53	0.51
2:AN:57:ARG:HH11	2:AN:57:ARG:HG2	1.75	0.51
1:AR:129:ASP:OD1	1:AR:129:ASP:N	2.39	0.51
2:Ac:56:VAL:O	2:Ac:57:ARG:C	2.53	0.51
4:Af:51:VAL:HG22	4:Af:51:VAL:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ag:124:LEU:N	1:Ag:125:PRO:HD2	2.26	0.51
3:Ai:15:ILE:C	3:Ai:17:HIS:N	2.67	0.51
2:Ar:56:VAL:O	2:Ar:57:ARG:C	2.53	0.51
4:BE:39:ALA:HB1	10:CE:137:PHE:CZ	2.45	0.51
4:BK:96:HIS:CE1	4:BK:141:ILE:CG2	2.94	0.51
4:BO:2:LYS:HB3	4:BO:132:ALA:HB2	1.92	0.51
6:BS:123:LEU:N	6:BS:124:PRO:HD2	2.26	0.51
4:BT:5:GLY:O	4:BT:8:GLU:HG2	2.11	0.51
4:BU:87:GLU:CG	7:BV:66:LYS:HA	2.41	0.51
6:BX:15:ILE:C	6:BX:17:HIS:N	2.67	0.51
6:BX:79:LEU:HD13	6:BX:79:LEU:O	2.10	0.51
4:BY:120:GLN:HG2	10:CY:80:LEU:CD1	2.41	0.51
4:BZ:119:ALA:HB3	9:Cc:80:LEU:HD13	1.92	0.51
4:Bo:96:HIS:CE1	4:Bo:141:ILE:CG2	2.94	0.51
4:Bs:2:LYS:HB3	4:Bs:132:ALA:HB2	1.92	0.51
6:Bw:123:LEU:N	6:Bw:124:PRO:HD2	2.26	0.51
4:By:87:GLU:CG	7:Bz:66:LYS:HA	2.41	0.51
8:C0:136:HIS:HD1	8:C0:146:TRP:HB2	1.75	0.51
7:C3:87:ASP:C	7:C3:89:PRO:HD2	2.36	0.51
9:C6:28:ILE:HD13	10:C7:28:ILE:HD11	1.93	0.51
7:CA:87:ASP:C	7:CA:89:PRO:HD2	2.36	0.51
9:CD:46:PHE:C	9:CD:46:PHE:CD1	2.88	0.51
9:CI:57:ILE:HD12	10:CJ:57:LEU:HD12	1.81	0.51
9:CN:138:ARG:HG2	9:CN:141:PHE:CD2	2.46	0.51
10:CT:62:CYS:SG	10:CT:68:GLN:HB2	2.50	0.51
9:CX:28:ILE:HD13	10:CY:28:ILE:HD11	1.93	0.51
10:CY:192:PHE:CG	10:CY:194:GLY:HA2	2.45	0.51
7:CZ:18:GLN:HE22	7:CZ:132:ASP:H	1.57	0.51
9:Cc:16:ALA:C	9:Cc:18:ALA:N	2.68	0.51
8:Cg:114:LEU:HD12	8:Cg:126:ASP:O	2.11	0.51
10:Ci:209:SER:HB2	10:Ci:211:GLU:HG2	1.91	0.51
9:Cr:41:ILE:O	10:Cs:38:ARG:HB3	2.09	0.51
9:Cr:138:ARG:HG2	9:Cr:141:PHE:CD2	2.46	0.51
8:Cv:9:ARG:O	8:Cv:12:TYR:HB2	2.10	0.51
9:Cw:173:ASN:OD1	9:Cw:176:SER:HB2	2.09	0.51
3:AE:102:ILE:CG1	3:AE:150:LEU:HA	2.28	0.51
1:AH:18:GLN:HE22	1:AH:132:ASP:H	1.56	0.51
3:AU:53:PHE:HB2	3:AU:58:ILE:HG21	1.93	0.51
3:AZ:123:LEU:N	3:AZ:124:PRO:HD2	2.26	0.51
4:Ap:78:THR:HG22	4:Ap:85:LEU:N	2.25	0.51
3:Ay:53:PHE:HB2	3:Ay:58:ILE:HG21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ay:123:LEU:N	3:Ay:124:PRO:HD2	2.26	0.51
6:B1:79:LEU:HD13	6:B1:79:LEU:O	2.10	0.51
4:B2:2:LYS:HB2	4:B2:132:ALA:HB2	1.92	0.51
4:B3:87:GLU:CG	7:B4:66:LYS:HA	2.41	0.51
4:B3:119:ALA:HB3	9:C6:80:LEU:HD13	1.92	0.51
4:B7:5:GLY:O	4:B7:8:GLU:HG2	2.11	0.51
4:B7:39:ALA:HB1	10:C7:137:PHE:CZ	2.45	0.51
6:BD:79:LEU:HD13	6:BD:79:LEU:O	2.10	0.51
5:BH:8:GLU:HB3	5:BH:141:GLN:NE2	2.26	0.51
4:BU:79:LEU:HD12	4:BU:85:LEU:HD11	1.89	0.51
6:BX:78:LYS:NZ	5:CV:31:ARG:HH22	2.09	0.51
4:BY:2:LYS:HB2	4:BY:132:ALA:HB2	1.92	0.51
4:BZ:87:GLU:CG	7:Ba:66:LYS:HA	2.41	0.51
4:BZ:110:LYS:HG3	4:BZ:134:ILE:CG2	2.37	0.51
6:Bc:123:LEU:N	6:Bc:124:PRO:HD2	2.25	0.51
4:Bd:5:GLY:O	4:Bd:8:GLU:HG2	2.11	0.51
4:Bi:39:ALA:HB1	10:Bi:137:PHE:CZ	2.45	0.51
5:Bl:8:GLU:HB3	5:Bl:141:GLN:NE2	2.26	0.51
8:C0:182:PRO:HD3	8:C0:211:PRO:HG3	1.91	0.51
8:C0:202:ASP:HB2	8:C0:203:HIS:ND1	2.25	0.51
9:C1:138:ARG:HG2	9:C1:141:PHE:CD2	2.46	0.51
10:C2:192:PHE:CG	10:C2:194:GLY:HA2	2.45	0.51
7:C3:18:GLN:HE22	7:C3:132:ASP:H	1.57	0.51
8:CH:18:ASN:C	10:CJ:20:ARG:NH1	2.67	0.51
9:CI:109:ASN:HB3	9:CI:225:LEU:HD11	1.86	0.51
8:CM:136:HIS:HD1	8:CM:146:TRP:HB2	1.75	0.51
10:CO:195:TYR:N	10:CO:195:TYR:CD1	2.75	0.51
8:CR:9:ARG:O	8:CR:12:TYR:HB2	2.10	0.51
8:CR:175:LYS:HG2	8:CR:177:GLU:HB3	1.91	0.51
9:CS:57:ILE:CD1	10:CT:54:VAL:HG13	2.25	0.51
8:CW:202:ASP:HB2	8:CW:203:HIS:ND1	2.25	0.51
9:CX:138:ARG:HG2	9:CX:141:PHE:CD2	2.46	0.51
7:CZ:87:ASP:C	7:CZ:89:PRO:HD2	2.36	0.51
7:Ce:87:ASP:C	7:Ce:89:PRO:HD2	2.36	0.51
10:Ci:80:LEU:HD23	10:Ci:80:LEU:N	2.26	0.51
9:Cm:57:ILE:HD12	10:Cn:57:LEU:HD12	1.81	0.51
9:Cr:13:ARG:CZ	10:Cs:14:ILE:CG1	2.83	0.51
10:Cs:195:TYR:N	10:Cs:195:TYR:CD1	2.75	0.51
8:Cv:136:HIS:HD1	8:Cv:146:TRP:HB2	1.75	0.51
3:A3:123:LEU:N	3:A3:124:PRO:HD2	2.26	0.51
4:A4:4:CYS:SG	4:A4:136:HIS:HB2	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:4:CYS:SG	4:AB:136:HIS:HB2	2.51	0.51
4:AL:51:VAL:HG22	4:AL:51:VAL:O	2.11	0.51
4:AL:78:THR:HG22	4:AL:85:LEU:N	2.25	0.51
1:AM:87:ASP:C	1:AM:89:PRO:HD2	2.36	0.51
4:AV:25:ASP:HA	8:CW:78:HIS:NE2	2.25	0.51
4:Aa:4:CYS:SG	4:Aa:136:HIS:HB2	2.51	0.51
2:Ac:57:ARG:HG2	2:Ac:57:ARG:HH11	1.75	0.51
4:Ap:51:VAL:HG22	4:Ap:51:VAL:O	2.11	0.51
1:Aq:87:ASP:C	1:Aq:89:PRO:HD2	2.36	0.51
3:At:123:LEU:N	3:At:124:PRO:HD2	2.26	0.51
4:Au:4:CYS:SG	4:Au:136:HIS:HB2	2.51	0.51
4:Au:25:ASP:HA	8:Cv:78:HIS:NE2	2.25	0.51
1:Av:129:ASP:OD1	1:Av:129:ASP:N	2.39	0.51
6:B1:15:ILE:C	6:B1:17:HIS:N	2.67	0.51
6:B1:78:LYS:NZ	5:Cz:31:ARG:HH22	2.09	0.51
6:B6:123:LEU:N	6:B6:124:PRO:HD2	2.25	0.51
4:BE:110:LYS:HG3	4:BE:134:ILE:CG2	2.36	0.51
4:BE:120:GLN:HG2	10:CE:80:LEU:CD1	2.41	0.51
5:BM:56:VAL:O	5:BM:57:ARG:C	2.54	0.51
4:Bd:39:ALA:HB1	10:Cd:137:PHE:CZ	2.45	0.51
5:Bq:56:VAL:O	5:Bq:57:ARG:C	2.54	0.51
6:Br:78:LYS:NZ	5:Cp:31:ARG:HH22	2.09	0.51
4:Bt:41:VAL:O	4:Bt:41:VAL:HG23	2.10	0.51
7:Bu:99:ALA:HB3	7:Bu:150:ARG:HH11	1.74	0.51
9:C6:92:ALA:HB3	9:C6:95:GLU:CG	2.20	0.51
7:CA:146:LYS:HA	7:CA:149:SER:OG	2.11	0.51
10:CE:80:LEU:N	10:CE:80:LEU:HD23	2.26	0.51
10:CE:209:SER:HB2	10:CE:211:GLU:HG2	1.91	0.51
9:CN:28:ILE:HD13	10:CO:28:ILE:HD11	1.93	0.51
9:Cc:92:ALA:HB3	9:Cc:95:GLU:CG	2.20	0.51
8:Cg:136:HIS:HD1	8:Cg:146:TRP:HB2	1.75	0.51
8:Cg:170:PHE:C	8:Cg:170:PHE:CD1	2.89	0.51
9:Cr:28:ILE:HD13	10:Cs:28:ILE:HD11	1.93	0.51
10:Cs:192:PHE:CG	10:Cs:194:GLY:HA2	2.45	0.51
2:A1:56:VAL:O	2:A1:57:ARG:C	2.53	0.51
2:A6:57:ARG:HH11	2:A6:57:ARG:HG2	1.75	0.51
3:AP:123:LEU:N	3:AP:124:PRO:HD2	2.26	0.51
4:AQ:4:CYS:SG	4:AQ:136:HIS:HB2	2.51	0.51
4:AQ:25:ASP:HA	8:CR:78:HIS:NE2	2.25	0.51
3:AU:123:LEU:N	3:AU:124:PRO:HD2	2.26	0.51
3:AZ:53:PHE:HB2	3:AZ:58:ILE:HG21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:An:19:TRP:CD2	3:An:81:ILE:HD12	2.46	0.51
4:Az:25:ASP:HA	8:C0:78:HIS:NE2	2.25	0.51
4:B7:120:GLN:HG2	10:C7:80:LEU:CD1	2.41	0.51
5:BC:8:GLU:HB3	5:BC:141:GLN:NE2	2.26	0.51
5:BC:56:VAL:O	5:BC:57:ARG:C	2.54	0.51
4:BE:5:GLY:O	4:BE:8:GLU:HG2	2.11	0.51
6:BI:123:LEU:N	6:BI:124:PRO:HD2	2.25	0.51
4:BJ:2:LYS:HB3	4:BJ:132:ALA:HB2	1.92	0.51
6:BN:78:LYS:NZ	5:CL:31:ARG:HH22	2.09	0.51
5:Bg:56:VAL:O	5:Bg:57:ARG:C	2.54	0.51
6:Bh:79:LEU:HD13	6:Bh:79:LEU:O	2.10	0.51
4:Bi:120:GLN:HG2	10:CI:80:LEU:CD1	2.41	0.51
4:Bj:119:ALA:HB3	9:Cm:80:LEU:HD13	1.91	0.51
6:Bm:123:LEU:N	6:Bm:124:PRO:HD2	2.25	0.51
4:Bn:2:LYS:HB3	4:Bn:132:ALA:HB2	1.92	0.51
4:Bx:2:LYS:HB3	4:Bx:132:ALA:HB2	1.92	0.51
8:CC:170:PHE:CD1	8:CC:170:PHE:C	2.89	0.51
9:CD:23:ARG:CD	10:Cn:18:ILE:HD11	2.40	0.51
9:CD:28:ILE:HD13	10:CE:28:ILE:HD11	1.93	0.51
7:CF:146:LYS:HA	7:CF:149:SER:OG	2.11	0.51
5:CG:81:ILE:O	5:CG:84:LEU:HB2	2.10	0.51
8:CM:213:SER:OG	8:CM:215:PHE:HB2	2.11	0.51
10:CO:192:PHE:CG	10:CO:194:GLY:HA2	2.45	0.51
7:Ce:146:LYS:HA	7:Ce:149:SER:OG	2.11	0.51
8:Cg:213:SER:OG	8:Cg:215:PHE:HB2	2.11	0.51
9:Ch:28:ILE:HD13	10:CI:28:ILE:HD11	1.93	0.51
7:Cj:87:ASP:C	7:Cj:89:PRO:HD2	2.36	0.51
8:Cq:42:VAL:HG23	8:Cq:46:THR:HG1	1.75	0.51
8:Cq:213:SER:OG	8:Cq:215:PHE:HB2	2.11	0.51
9:Cr:201:ASP:HB2	9:Cr:204:ARG:NE	2.15	0.51
7:Ct:146:LYS:HA	7:Ct:149:SER:OG	2.11	0.51
9:Cw:31:LEU:HD21	10:Cx:31:VAL:CB	2.39	0.51
7:Cy:124:LEU:N	7:Cy:125:PRO:HD2	2.25	0.51
3:A3:53:PHE:HB2	3:A3:58:ILE:HG21	1.93	0.51
3:A7:123:LEU:N	3:A7:124:PRO:HD2	2.25	0.51
1:AC:48:PRO:O	1:AC:50:VAL:N	2.44	0.51
3:AE:19:TRP:CD2	3:AE:81:ILE:HD12	2.47	0.51
1:AH:87:ASP:C	1:AH:89:PRO:HD2	2.36	0.51
3:AJ:19:TRP:CD2	3:AJ:81:ILE:HD12	2.46	0.51
3:AP:53:PHE:HB2	3:AP:58:ILE:HG21	1.93	0.51
3:Ad:102:ILE:CG1	3:Ad:150:LEU:HA	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Af:4:CYS:SG	4:Af:136:HIS:HB2	2.51	0.51
1:Ag:48:PRO:O	1:Ag:50:VAL:N	2.44	0.51
3:Ai:19:TRP:CD2	3:Ai:81:ILE:HD12	2.47	0.51
3:Ai:102:ILE:CG1	3:Ai:150:LEU:HA	2.28	0.51
3:Aj:150:LEU:HD23	3:Aj:150:LEU:N	2.24	0.51
1:Al:87:ASP:C	1:Al:89:PRO:HD2	2.36	0.51
3:At:53:PHE:HB2	3:At:58:ILE:HG21	1.93	0.51
6:BD:123:LEU:N	6:BD:124:PRO:HD2	2.26	0.51
4:BF:119:ALA:HB3	9:CI:80:LEU:HD13	1.91	0.51
6:BI:78:LYS:NZ	5:CG:31:ARG:HH22	2.09	0.51
4:BP:41:VAL:O	4:BP:41:VAL:HG23	2.10	0.51
7:BQ:99:ALA:HB3	7:BQ:150:ARG:HH11	1.74	0.51
4:Bd:120:GLN:HG2	10:Cd:80:LEU:CD1	2.41	0.51
5:Bg:8:GLU:HB3	5:Bg:141:GLN:NE2	2.26	0.51
6:Bh:123:LEU:N	6:Bh:124:PRO:HD2	2.26	0.51
4:Bi:5:GLY:O	4:Bi:8:GLU:HG2	2.11	0.51
5:Bl:57:ARG:HH11	5:Bl:57:ARG:HG2	1.76	0.51
4:Bx:120:GLN:HG2	10:Cx:80:LEU:CD1	2.41	0.51
7:Bz:99:ALA:HB3	7:Bz:150:ARG:HH11	1.74	0.51
8:C0:170:PHE:C	8:C0:170:PHE:CD1	2.89	0.51
10:C2:18:ILE:HD11	9:CS:23:ARG:CD	2.40	0.51
8:C5:14:VAL:HG21	10:C7:13:ILE:CD1	2.41	0.51
9:C6:138:ARG:HG2	9:C6:141:PHE:CD2	2.46	0.51
7:CF:87:ASP:C	7:CF:89:PRO:HD2	2.36	0.51
8:CH:136:HIS:HD1	8:CH:146:TRP:HB2	1.75	0.51
10:CJ:18:ILE:HD11	9:Ch:23:ARG:CD	2.40	0.51
9:CN:13:ARG:CZ	10:CO:14:ILE:CG1	2.83	0.51
7:CP:146:LYS:HA	7:CP:149:SER:OG	2.11	0.51
10:CT:80:LEU:N	10:CT:80:LEU:HD23	2.26	0.51
7:CU:87:ASP:C	7:CU:89:PRO:HD2	2.36	0.51
8:CW:170:PHE:C	8:CW:170:PHE:CD1	2.89	0.51
10:CY:18:ILE:HD11	9:Cw:23:ARG:CD	2.40	0.51
8:Cb:14:VAL:HG21	10:Cd:13:ILE:CD1	2.41	0.51
5:Cf:81:ILE:O	5:Cf:84:LEU:HB2	2.10	0.51
7:Cj:146:LYS:HA	7:Cj:149:SER:OG	2.11	0.51
10:Cx:80:LEU:HD23	10:Cx:80:LEU:N	2.26	0.51
7:Cy:87:ASP:C	7:Cy:89:PRO:HD2	2.36	0.51
1:A0:48:PRO:O	1:A0:50:VAL:N	2.44	0.50
3:A2:60:GLU:O	3:A2:63:SER:HB3	2.12	0.50
4:AL:4:CYS:SG	4:AL:136:HIS:HB2	2.51	0.50
1:AM:124:LEU:N	1:AM:125:PRO:HD2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AQ:51:VAL:HG22	4:AQ:51:VAL:O	2.11	0.50
4:AV:4:CYS:SG	4:AV:136:HIS:HB2	2.51	0.50
1:AW:48:PRO:O	1:AW:50:VAL:N	2.44	0.50
2:AX:56:VAL:O	2:AX:57:ARG:C	2.53	0.50
3:AY:60:GLU:O	3:AY:63:SER:HB3	2.12	0.50
3:Ad:123:LEU:N	3:Ad:124:PRO:HD2	2.25	0.50
4:Ap:4:CYS:SG	4:Ap:136:HIS:HB2	2.51	0.50
5:BH:57:ARG:HH11	5:BH:57:ARG:HG2	1.76	0.50
4:BP:87:GLU:CG	7:BQ:66:LYS:HA	2.41	0.50
4:BT:2:LYS:HB3	4:BT:132:ALA:HB2	1.92	0.50
4:BT:120:GLN:HG2	10:CT:80:LEU:CD1	2.41	0.50
4:BZ:41:VAL:O	4:BZ:41:VAL:HG23	2.10	0.50
4:Bd:2:LYS:HB2	4:Bd:132:ALA:HB2	1.92	0.50
5:Bg:57:ARG:HH11	5:Bg:57:ARG:HG2	1.76	0.50
4:Bi:110:LYS:HG3	4:Bi:134:ILE:CG2	2.36	0.50
6:Bm:78:LYS:NZ	5:Ck:31:ARG:HH22	2.09	0.50
6:Br:79:LEU:HD13	6:Br:79:LEU:O	2.10	0.50
9:C1:57:ILE:CD1	10:C2:54:VAL:HG13	2.25	0.50
9:C1:137:ARG:CB	9:C1:141:PHE:HB3	2.34	0.50
9:C6:104:VAL:HG11	9:C6:202:ASN:ND2	2.26	0.50
8:CC:136:HIS:HD1	8:CC:146:TRP:HB2	1.75	0.50
8:CC:213:SER:OG	8:CC:215:PHE:HB2	2.11	0.50
9:CI:92:ALA:HB3	9:CI:95:GLU:CG	2.20	0.50
9:CI:138:ARG:HG2	9:CI:141:PHE:CD2	2.46	0.50
7:CK:11:ASP:O	7:CK:14:ILE:HB	2.12	0.50
5:CL:81:ILE:O	5:CL:84:LEU:HB2	2.10	0.50
7:CU:124:LEU:N	7:CU:125:PRO:HD2	2.25	0.50
8:CW:51:LYS:HZ2	10:CY:46:LYS:HE3	1.76	0.50
9:Cc:23:ARG:CD	10:Cs:18:ILE:HD11	2.40	0.50
9:Cc:89:CYS:SG	9:Cc:92:ALA:HA	2.52	0.50
9:Cc:104:VAL:HG11	9:Cc:202:ASN:ND2	2.26	0.50
9:Cc:138:ARG:HG2	9:Cc:141:PHE:CD2	2.46	0.50
5:Ck:81:ILE:O	5:Ck:84:LEU:HB2	2.10	0.50
8:Cl:136:HIS:HD1	8:Cl:146:TRP:HB2	1.75	0.50
9:Cm:16:ALA:C	9:Cm:18:ALA:N	2.68	0.50
9:Cm:109:ASN:HB3	9:Cm:225:LEU:HD11	1.86	0.50
7:Co:11:ASP:O	7:Co:14:ILE:HB	2.12	0.50
8:Cq:213:SER:HG	8:Cq:215:PHE:HB2	1.76	0.50
9:Cr:18:ALA:C	9:Cr:20:LEU:N	2.67	0.50
7:Ct:18:GLN:NE2	7:Ct:131:TYR:HA	2.26	0.50
1:A0:87:ASP:C	1:A0:89:PRO:HD2	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:8:GLU:CG	2:A1:9:CYS:H	2.21	0.50
1:A5:48:PRO:O	1:A5:50:VAL:N	2.44	0.50
2:AD:18:LYS:HZ3	2:AD:85:ASP:HB2	1.76	0.50
3:AJ:15:ILE:C	3:AJ:17:HIS:H	2.20	0.50
1:Ab:48:PRO:O	1:Ab:50:VAL:N	2.44	0.50
3:An:15:ILE:C	3:An:17:HIS:H	2.20	0.50
1:Aq:124:LEU:N	1:Aq:125:PRO:HD2	2.26	0.50
4:Au:51:VAL:HG22	4:Au:51:VAL:O	2.11	0.50
4:Az:4:CYS:SG	4:Az:136:HIS:HB2	2.51	0.50
5:B5:56:VAL:O	5:B5:57:ARG:C	2.54	0.50
4:B7:2:LYS:HB2	4:B7:132:ALA:HB2	1.92	0.50
5:BC:57:ARG:HG2	5:BC:57:ARG:HH11	1.76	0.50
6:BN:79:LEU:HD13	6:BN:79:LEU:O	2.10	0.50
4:BP:96:HIS:CE1	4:BP:141:ILE:CG2	2.94	0.50
4:Bs:5:GLY:O	4:Bs:8:GLU:HG2	2.11	0.50
4:Bt:87:GLU:CG	7:Bu:66:LYS:HA	2.41	0.50
8:C0:51:LYS:HZ2	10:C2:46:LYS:HE3	1.76	0.50
8:C0:213:SER:OG	8:C0:215:PHE:HB2	2.11	0.50
9:C6:23:ARG:CD	10:CO:18:ILE:HD11	2.40	0.50
9:C6:89:CYS:SG	9:C6:92:ALA:HA	2.52	0.50
5:CB:81:ILE:O	5:CB:84:LEU:HB2	2.10	0.50
8:CH:56:ASN:CA	8:CH:199:GLY:CA	2.64	0.50
8:CH:170:PHE:C	8:CH:170:PHE:CD1	2.89	0.50
8:CM:114:LEU:HD12	8:CM:126:ASP:O	2.11	0.50
8:CM:170:PHE:C	8:CM:170:PHE:CD1	2.89	0.50
10:CO:80:LEU:HD23	10:CO:80:LEU:N	2.26	0.50
9:CS:89:CYS:SG	9:CS:92:ALA:HA	2.52	0.50
9:CS:203:GLU:HG3	9:CS:225:LEU:HB3	1.94	0.50
8:CW:172:ASN:C	8:CW:172:ASN:ND2	2.67	0.50
8:CW:213:SER:OG	8:CW:215:PHE:HB2	2.11	0.50
7:CZ:146:LYS:HA	7:CZ:149:SER:OG	2.11	0.50
9:Ch:104:VAL:HG11	9:Ch:202:ASN:ND2	2.26	0.50
5:Ck:10:LEU:HB3	5:Ck:13:GLU:HG3	1.93	0.50
8:Cl:18:ASN:C	10:Cn:20:ARG:HH12	2.15	0.50
8:Cl:170:PHE:C	8:Cl:170:PHE:CD1	2.89	0.50
9:Cm:138:ARG:HG2	9:Cm:141:PHE:CD2	2.46	0.50
5:Cp:10:LEU:HB3	5:Cp:13:GLU:HG3	1.93	0.50
5:Cp:18:LYS:HD2	5:Cp:85:ASP:HB2	1.92	0.50
8:Cq:14:VAL:HG11	10:Cs:13:ILE:CG2	2.11	0.50
8:Cq:114:LEU:HD12	8:Cq:126:ASP:O	2.11	0.50
8:Cq:170:PHE:CD1	8:Cq:170:PHE:C	2.89	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ct:11:ASP:O	7:Ct:14:ILE:HB	2.12	0.50
8:Cv:114:LEU:HD12	8:Cv:126:ASP:O	2.11	0.50
9:Cw:89:CYS:SG	9:Cw:92:ALA:HA	2.52	0.50
9:Cw:138:ARG:HG2	9:Cw:141:PHE:CD2	2.46	0.50
9:Cw:203:GLU:HG3	9:Cw:225:LEU:HB3	1.94	0.50
5:Cz:56:VAL:O	5:Cz:57:ARG:C	2.53	0.50
3:A2:15:ILE:C	3:A2:17:HIS:H	2.20	0.50
3:A3:15:ILE:C	3:A3:17:HIS:N	2.68	0.50
3:A7:102:ILE:CG1	3:A7:150:LEU:HA	2.28	0.50
4:AB:109:PHE:CE2	4:AB:113:ILE:HD11	2.46	0.50
3:AJ:23:TRP:CD1	3:AJ:78:LYS:HZ2	2.30	0.50
4:AL:109:PHE:CE2	4:AL:113:ILE:HD11	2.46	0.50
3:AT:15:ILE:C	3:AT:17:HIS:H	2.20	0.50
3:AT:102:ILE:CG1	3:AT:150:LEU:HA	2.28	0.50
3:AT:102:ILE:CA	3:AT:150:LEU:HG	2.38	0.50
4:AV:109:PHE:CE2	4:AV:113:ILE:HD11	2.46	0.50
1:AW:87:ASP:C	1:AW:89:PRO:HD2	2.36	0.50
3:AZ:15:ILE:C	3:AZ:17:HIS:N	2.68	0.50
4:Af:109:PHE:CE2	4:Af:113:ILE:HD11	2.46	0.50
3:An:23:TRP:CD1	3:An:78:LYS:HZ2	2.30	0.50
3:An:60:GLU:O	3:An:63:SER:HB3	2.12	0.50
4:B2:5:GLY:O	4:B2:8:GLU:HG2	2.11	0.50
4:B3:41:VAL:O	4:B3:41:VAL:HG23	2.10	0.50
4:BJ:120:GLN:HG2	10:CJ:80:LEU:CD1	2.41	0.50
5:BM:57:ARG:HH11	5:BM:57:ARG:HG2	1.76	0.50
6:BN:123:LEU:N	6:BN:124:PRO:HD2	2.25	0.50
4:BO:5:GLY:O	4:BO:8:GLU:HG2	2.11	0.50
4:BO:120:GLN:HG2	10:CO:80:LEU:CD1	2.41	0.50
7:BV:99:ALA:HB3	7:BV:150:ARG:HH11	1.74	0.50
5:Bb:56:VAL:O	5:Bb:57:ARG:C	2.54	0.50
4:Be:87:GLU:CG	7:Bf:66:LYS:HA	2.41	0.50
4:Bi:2:LYS:HB3	4:Bi:132:ALA:HB2	1.92	0.50
4:Bn:120:GLN:HG2	10:Cn:80:LEU:CD1	2.41	0.50
5:Bq:8:GLU:HB3	5:Bq:141:GLN:NE2	2.26	0.50
6:Br:123:LEU:N	6:Br:124:PRO:HD2	2.25	0.50
4:Bt:96:HIS:CE1	4:Bt:141:ILE:CG2	2.94	0.50
9:C1:89:CYS:SG	9:C1:92:ALA:HA	2.52	0.50
10:C2:62:CYS:SG	10:C2:68:GLN:HB2	2.50	0.50
10:C2:80:LEU:HD23	10:C2:80:LEU:N	2.26	0.50
7:C3:146:LYS:HA	7:C3:149:SER:OG	2.11	0.50
8:CC:44:LYS:HE3	10:CE:46:LYS:HZ1	1.69	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CF:88:PRO:HG2	7:CF:89:PRO:HD3	1.94	0.50
5:CG:10:LEU:HB3	5:CG:13:GLU:HG3	1.93	0.50
5:CG:18:LYS:HD2	5:CG:85:ASP:HB2	1.92	0.50
5:CL:10:LEU:HB3	5:CL:13:GLU:HG3	1.93	0.50
5:CL:18:LYS:HD2	5:CL:85:ASP:HB2	1.92	0.50
9:CN:46:PHE:C	9:CN:46:PHE:CD1	2.88	0.50
9:CN:201:ASP:HB2	9:CN:204:ARG:NE	2.15	0.50
7:CP:11:ASP:O	7:CP:14:ILE:HB	2.12	0.50
7:CP:18:GLN:NE2	7:CP:131:TYR:HA	2.26	0.50
8:CR:114:LEU:HD12	8:CR:126:ASP:O	2.11	0.50
8:CW:114:LEU:HD12	8:CW:126:ASP:O	2.11	0.50
9:CX:89:CYS:SG	9:CX:92:ALA:HA	2.52	0.50
10:CY:195:TYR:HD1	10:CY:195:TYR:H	1.60	0.50
8:Cb:213:SER:OG	8:Cb:215:PHE:HB2	2.11	0.50
10:Cd:80:LEU:N	10:Cd:80:LEU:HD23	2.26	0.50
8:Cg:175:LYS:HG2	8:Cg:177:GLU:HB3	1.91	0.50
7:Cj:88:PRO:HG2	7:Cj:89:PRO:HD3	1.94	0.50
9:Cm:92:ALA:HB3	9:Cm:95:GLU:CG	2.20	0.50
5:Cp:81:ILE:O	5:Cp:84:LEU:HB2	2.10	0.50
10:Cs:80:LEU:N	10:Cs:80:LEU:HD23	2.26	0.50
2:A6:107:LYS:HG3	2:A6:110:PHE:CE2	2.47	0.50
1:AC:99:ALA:HA	1:AC:147:ILE:O	2.12	0.50
2:AI:107:LYS:HG3	2:AI:110:PHE:CE2	2.47	0.50
3:AJ:60:GLU:O	3:AJ:63:SER:HB3	2.12	0.50
3:AY:15:ILE:C	3:AY:17:HIS:H	2.20	0.50
2:Ac:107:LYS:HG3	2:Ac:110:PHE:CE2	2.47	0.50
3:Ad:102:ILE:CA	3:Ad:150:LEU:HG	2.38	0.50
1:Ag:99:ALA:HA	1:Ag:147:ILE:O	2.12	0.50
3:Ai:60:GLU:O	3:Ai:63:SER:HB3	2.12	0.50
2:Am:57:ARG:HH11	2:Am:57:ARG:HG2	1.75	0.50
2:Am:107:LYS:HG3	2:Am:110:PHE:CE2	2.47	0.50
3:Ao:15:ILE:C	3:Ao:17:HIS:N	2.68	0.50
3:Ax:15:ILE:C	3:Ax:17:HIS:H	2.20	0.50
4:Az:109:PHE:CE2	4:Az:113:ILE:HD11	2.46	0.50
4:BA:87:GLU:CG	7:BB:66:LYS:HA	2.41	0.50
4:BE:2:LYS:HB3	4:BE:132:ALA:HB2	1.92	0.50
5:BM:8:GLU:HB3	5:BM:141:GLN:NE2	2.26	0.50
5:BW:56:VAL:O	5:BW:57:ARG:C	2.54	0.50
5:Bl:56:VAL:O	5:Bl:57:ARG:C	2.54	0.50
5:Bq:57:ARG:HH11	5:Bq:57:ARG:HG2	1.76	0.50
4:Bs:120:GLN:HG2	10:Cs:80:LEU:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:By:41:VAL:O	4:By:41:VAL:HG23	2.10	0.50
8:C0:9:ARG:O	8:C0:12:TYR:HB2	2.10	0.50
8:C0:114:LEU:HD12	8:C0:126:ASP:O	2.11	0.50
8:C5:114:LEU:HD12	8:C5:126:ASP:O	2.11	0.50
10:C7:80:LEU:N	10:C7:80:LEU:HD23	2.26	0.50
7:CA:88:PRO:HG2	7:CA:89:PRO:HD3	1.94	0.50
9:CD:104:VAL:HG11	9:CD:202:ASN:ND2	2.26	0.50
10:CE:78:SER:HB3	10:CE:81:PHE:CG	2.47	0.50
9:CI:16:ALA:C	9:CI:18:ALA:N	2.68	0.50
9:CN:203:GLU:HG3	9:CN:225:LEU:HB3	1.94	0.50
7:CP:88:PRO:HG2	7:CP:89:PRO:HD3	1.94	0.50
9:CS:138:ARG:HG2	9:CS:141:PHE:CD2	2.46	0.50
7:CU:146:LYS:HA	7:CU:149:SER:OG	2.11	0.50
5:CV:56:VAL:O	5:CV:57:ARG:C	2.53	0.50
10:CY:62:CYS:SG	10:CY:68:GLN:HB2	2.50	0.50
8:Cg:44:LYS:HE3	10:Ci:46:LYS:HZ1	1.69	0.50
9:Ch:89:CYS:SG	9:Ch:92:ALA:HA	2.52	0.50
10:Ci:78:SER:HB3	10:Ci:81:PHE:CG	2.47	0.50
5:Ck:18:LYS:HD2	5:Ck:85:ASP:HB2	1.92	0.50
9:Cm:28:ILE:HD13	10:Cn:28:ILE:HD11	1.93	0.50
8:Cq:136:HIS:HD1	8:Cq:146:TRP:HB2	1.75	0.50
9:Cr:46:PHE:CD1	9:Cr:46:PHE:C	2.88	0.50
7:Ct:88:PRO:HG2	7:Ct:89:PRO:HD3	1.94	0.50
3:A7:102:ILE:CA	3:A7:150:LEU:HG	2.38	0.50
3:AE:60:GLU:O	3:AE:63:SER:HB3	2.12	0.50
1:AH:99:ALA:HA	1:AH:147:ILE:O	2.12	0.50
1:AH:124:LEU:N	1:AH:125:PRO:HD2	2.26	0.50
1:AM:48:PRO:O	1:AM:50:VAL:N	2.44	0.50
4:AQ:1:LYS:NZ	4:AQ:128:GLU:HA	2.27	0.50
1:AR:87:ASP:C	1:AR:89:PRO:HD2	2.36	0.50
3:AU:15:ILE:C	3:AU:17:HIS:N	2.68	0.50
4:AV:51:VAL:HG22	4:AV:51:VAL:O	2.11	0.50
4:Aa:51:VAL:HG22	4:Aa:51:VAL:O	2.11	0.50
1:Al:99:ALA:HA	1:Al:147:ILE:O	2.12	0.50
1:Al:124:LEU:N	1:Al:125:PRO:HD2	2.26	0.50
3:An:115:ILE:O	3:An:118:ALA:HB3	2.12	0.50
4:Ap:109:PHE:CE2	4:Ap:113:ILE:HD11	2.46	0.50
4:Au:1:LYS:NZ	4:Au:128:GLU:HA	2.27	0.50
1:Av:87:ASP:C	1:Av:89:PRO:HD2	2.36	0.50
5:B0:56:VAL:O	5:B0:57:ARG:C	2.54	0.50
5:BH:56:VAL:O	5:BH:57:ARG:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BU:41:VAL:HG23	4:BU:41:VAL:O	2.10	0.50
4:BY:5:GLY:O	4:BY:8:GLU:HG2	2.11	0.50
9:C1:203:GLU:HG3	9:C1:225:LEU:HB3	1.94	0.50
8:C5:213:SER:OG	8:C5:215:PHE:HB2	2.11	0.50
8:CC:175:LYS:HG2	8:CC:177:GLU:HB3	1.91	0.50
9:CD:89:CYS:SG	9:CD:92:ALA:HA	2.52	0.50
7:CF:11:ASP:O	7:CF:14:ILE:HB	2.12	0.50
8:CH:18:ASN:HB3	10:CJ:16:LYS:HZ3	1.70	0.50
8:CH:18:ASN:C	10:CJ:20:ARG:HH12	2.15	0.50
9:CI:28:ILE:HD13	10:CJ:28:ILE:HD11	1.93	0.50
9:CI:140:PHE:HB2	9:CI:141:PHE:CA	2.40	0.50
10:CJ:195:TYR:H	10:CJ:195:TYR:HD1	1.60	0.50
7:CK:18:GLN:NE2	7:CK:131:TYR:HA	2.26	0.50
5:CQ:81:ILE:O	5:CQ:84:LEU:HB2	2.10	0.50
10:CT:195:TYR:H	10:CT:195:TYR:HD1	1.60	0.50
7:CU:88:PRO:HG2	7:CU:89:PRO:HD3	1.94	0.50
9:CX:57:ILE:CD1	10:CY:54:VAL:HG13	2.25	0.50
9:CX:137:ARG:CB	9:CX:141:PHE:HB3	2.34	0.50
7:Ce:88:PRO:HG2	7:Ce:89:PRO:HD3	1.94	0.50
8:Cl:56:ASN:CA	8:Cl:199:GLY:CA	2.64	0.50
9:Cm:140:PHE:HB2	9:Cm:141:PHE:CA	2.40	0.50
10:Cn:195:TYR:H	10:Cn:195:TYR:HD1	1.60	0.50
7:Co:18:GLN:NE2	7:Co:131:TYR:HA	2.26	0.50
9:Cr:203:GLU:HG3	9:Cr:225:LEU:HB3	1.94	0.50
5:Cu:81:ILE:O	5:Cu:84:LEU:HB2	2.10	0.50
10:Cx:195:TYR:HD1	10:Cx:195:TYR:H	1.60	0.50
7:Cy:88:PRO:HG2	7:Cy:89:PRO:HD3	1.94	0.50
4:A4:51:VAL:HG22	4:A4:51:VAL:O	2.11	0.50
3:AE:23:TRP:CD1	3:AE:78:LYS:HZ2	2.30	0.50
3:AF:15:ILE:C	3:AF:17:HIS:N	2.68	0.50
2:AI:57:ARG:HH11	2:AI:57:ARG:HG2	1.75	0.50
3:AJ:115:ILE:O	3:AJ:118:ALA:HB3	2.12	0.50
4:Af:78:THR:HG22	4:Af:78:THR:O	2.12	0.50
1:Aq:48:PRO:O	1:Aq:50:VAL:N	2.44	0.50
3:Ax:102:ILE:CA	3:Ax:150:LEU:HG	2.38	0.50
3:Ay:15:ILE:C	3:Ay:17:HIS:N	2.68	0.50
4:Bd:76:ILE:CA	4:Bd:79:LEU:HD23	2.25	0.50
9:C1:38:ALA:HB3	10:C2:35:LEU:HD11	1.87	0.50
8:CC:14:VAL:HG21	10:CE:13:ILE:HD13	1.94	0.50
8:CH:14:VAL:HG21	10:CJ:13:ILE:CD1	2.41	0.50
10:CJ:80:LEU:HD23	10:CJ:80:LEU:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CL:17:VAL:HG13	5:CL:135:TRP:CE2	2.47	0.50
8:CM:210:VAL:HG12	8:CM:215:PHE:O	2.12	0.50
9:CN:18:ALA:C	9:CN:20:LEU:N	2.67	0.50
8:CW:9:ARG:O	8:CW:12:TYR:HB2	2.10	0.50
9:CX:203:GLU:HG3	9:CX:225:LEU:HB3	1.94	0.50
8:Cb:114:LEU:HD12	8:Cb:126:ASP:O	2.11	0.50
8:Cg:14:VAL:HG21	10:Ci:13:ILE:HD13	1.94	0.50
7:Cj:11:ASP:O	7:Cj:14:ILE:HB	2.12	0.50
5:Ck:17:VAL:HG13	5:Ck:135:TRP:CE2	2.47	0.50
8:Cl:28:LEU:HD21	10:Cn:27:SER:HB3	1.92	0.50
9:Cm:17:ASN:ND2	10:Cn:17:LEU:HD11	2.22	0.50
5:Cp:17:VAL:HG13	5:Cp:135:TRP:CE2	2.47	0.50
7:Cy:146:LYS:HA	7:Cy:149:SER:OG	2.11	0.50
1:A5:70:HIS:O	1:A5:74:ILE:HG22	2.12	0.50
1:A5:99:ALA:HA	1:A5:147:ILE:O	2.12	0.50
2:A6:18:LYS:NZ	2:A6:85:ASP:HB2	2.27	0.50
3:A7:19:TRP:CD2	3:A7:81:ILE:HD12	2.46	0.50
3:A7:115:ILE:O	3:A7:118:ALA:HB3	2.12	0.50
4:AB:78:THR:HG22	4:AB:78:THR:O	2.12	0.50
1:AC:87:ASP:C	1:AC:89:PRO:HD2	2.36	0.50
2:AD:107:LYS:HG3	2:AD:110:PHE:CE2	2.47	0.50
3:AT:60:GLU:O	3:AT:63:SER:HB3	2.12	0.50
1:Ab:99:ALA:HA	1:Ab:147:ILE:O	2.12	0.50
2:Ac:18:LYS:NZ	2:Ac:85:ASP:HB2	2.27	0.50
3:Ad:19:TRP:CD2	3:Ad:81:ILE:HD12	2.46	0.50
1:Ag:87:ASP:C	1:Ag:89:PRO:HD2	2.36	0.50
1:Aq:129:ASP:N	1:Aq:129:ASP:OD1	2.39	0.50
2:Ar:107:LYS:HG3	2:Ar:110:PHE:CE2	2.47	0.50
1:Av:48:PRO:O	1:Av:50:VAL:N	2.44	0.50
1:Av:70:HIS:O	1:Av:74:ILE:HG22	2.12	0.50
4:Az:51:VAL:O	4:Az:51:VAL:HG22	2.11	0.50
4:BJ:5:GLY:O	4:BJ:8:GLU:HG2	2.11	0.50
4:BK:87:GLU:CG	7:BL:66:LYS:HA	2.41	0.50
4:Bx:2:LYS:HB2	4:Bx:132:ALA:HB2	1.92	0.50
8:C0:172:ASN:C	8:C0:172:ASN:ND2	2.67	0.50
9:C1:104:VAL:HG11	9:C1:202:ASN:ND2	2.26	0.50
9:C1:117:TRP:HB3	9:C1:119:GLY:N	2.27	0.50
8:C5:148:ARG:HG3	8:C5:148:ARG:NH1	2.22	0.50
5:CB:10:LEU:HB3	5:CB:13:GLU:HG3	1.93	0.50
8:CC:10:PHE:CD2	10:CE:10:HIS:CA	2.95	0.50
5:CG:17:VAL:HG13	5:CG:135:TRP:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:14:VAL:HG21	10:CJ:13:ILE:HD13	1.94	0.50
7:CP:87:ASP:C	7:CP:89:PRO:HD2	2.36	0.50
8:CR:210:VAL:HG12	8:CR:215:PHE:O	2.12	0.50
9:CS:117:TRP:HB3	9:CS:119:GLY:N	2.27	0.50
9:CX:104:VAL:HG11	9:CX:202:ASN:ND2	2.26	0.50
9:CX:117:TRP:HB3	9:CX:119:GLY:N	2.27	0.50
8:Cb:148:ARG:HG3	8:Cb:148:ARG:NH1	2.22	0.50
8:Cl:14:VAL:HG21	10:Cn:13:ILE:CD1	2.41	0.50
8:Cl:114:LEU:HD12	8:Cl:126:ASP:O	2.11	0.50
10:Cn:80:LEU:N	10:Cn:80:LEU:HD23	2.26	0.50
7:Co:88:PRO:HG2	7:Co:89:PRO:HD3	1.94	0.50
8:Cq:210:VAL:HG12	8:Cq:215:PHE:O	2.12	0.50
8:Cv:210:VAL:HG12	8:Cv:215:PHE:O	2.12	0.50
9:Cw:104:VAL:HG11	9:Cw:202:ASN:ND2	2.26	0.50
2:AN:107:LYS:HG3	2:AN:110:PHE:CE2	2.47	0.50
1:AR:48:PRO:O	1:AR:50:VAL:N	2.44	0.50
1:AR:70:HIS:O	1:AR:74:ILE:HG22	2.12	0.50
2:AX:107:LYS:HG3	2:AX:110:PHE:CE2	2.47	0.50
1:Ab:70:HIS:O	1:Ab:74:ILE:HG22	2.12	0.50
3:Ad:115:ILE:O	3:Ad:118:ALA:HB3	2.12	0.50
2:Ah:107:LYS:HG3	2:Ah:110:PHE:CE2	2.47	0.50
3:Aj:15:ILE:C	3:Aj:17:HIS:N	2.68	0.50
3:Ax:60:GLU:O	3:Ax:63:SER:HB3	2.12	0.50
3:Ax:102:ILE:CG1	3:Ax:150:LEU:HA	2.28	0.50
5:B5:57:ARG:HH11	5:B5:57:ARG:HG2	1.76	0.50
4:B7:76:ILE:CA	4:B7:79:LEU:HD23	2.25	0.50
4:BF:87:GLU:CG	7:BG:66:LYS:HA	2.41	0.50
4:BZ:120:GLN:HG2	9:Cc:80:LEU:CD1	2.31	0.50
4:Bo:87:GLU:CG	7:Bp:66:LYS:HA	2.41	0.50
7:C3:88:PRO:HG2	7:C3:89:PRO:HD3	1.94	0.50
9:C6:82:VAL:HA	9:C6:88:ASP:OD1	2.12	0.50
9:CD:82:VAL:HA	9:CD:88:ASP:OD1	2.12	0.50
7:CF:22:LEU:HD13	7:CF:23:TRP:CH2	2.47	0.50
8:CH:28:LEU:HD21	10:CJ:27:SER:HB3	1.92	0.50
8:CH:114:LEU:HD12	8:CH:126:ASP:O	2.11	0.50
9:CI:17:ASN:ND2	10:CJ:17:LEU:HD11	2.22	0.50
10:CJ:63:ASP:CB	10:CJ:66:GLU:H	2.24	0.50
7:CK:22:LEU:HD13	7:CK:23:TRP:CH2	2.47	0.50
7:CK:88:PRO:HG2	7:CK:89:PRO:HD3	1.94	0.50
9:CN:57:ILE:HG23	10:CO:57:LEU:HB3	1.94	0.50
5:CQ:17:VAL:HG13	5:CQ:135:TRP:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CR:155:LEU:CD1	8:CR:161:THR:HB	2.36	0.50
8:CR:213:SER:OG	8:CR:215:PHE:HB2	2.11	0.50
8:CR:213:SER:HG	8:CR:215:PHE:HB2	1.77	0.50
10:CT:192:PHE:HE1	10:CT:198:ASP:O	1.92	0.50
7:CU:11:ASP:O	7:CU:14:ILE:HB	2.12	0.50
8:Cb:51:LYS:HZ2	10:Cd:46:LYS:HE3	1.77	0.50
9:Cc:82:VAL:HA	9:Cc:88:ASP:OD1	2.12	0.50
10:Cd:78:SER:HB3	10:Cd:81:PHE:CG	2.47	0.50
5:Cf:10:LEU:HB3	5:Cf:13:GLU:HG3	1.93	0.50
8:Cg:10:PHE:CD2	10:Ci:10:HIS:CA	2.95	0.50
8:Cg:11:GLN:CA	10:Ci:13:ILE:CD1	2.78	0.50
7:Cj:22:LEU:HD13	7:Cj:23:TRP:CH2	2.47	0.50
8:Cl:14:VAL:HG21	10:Cn:13:ILE:HD13	1.94	0.50
10:Cn:114:PHE:O	10:Cn:214:ALA:HA	2.12	0.50
7:Co:22:LEU:HD13	7:Co:23:TRP:CH2	2.47	0.50
9:Cr:57:ILE:HG23	10:Cs:57:LEU:HB3	1.94	0.50
7:Ct:87:ASP:C	7:Ct:89:PRO:HD2	2.36	0.50
5:Cu:17:VAL:HG13	5:Cu:135:TRP:CE2	2.47	0.50
9:Cw:117:TRP:HB3	9:Cw:119:GLY:N	2.27	0.50
2:A1:18:LYS:NZ	2:A1:85:ASP:HB2	2.27	0.50
2:A1:107:LYS:HG3	2:A1:110:PHE:CE2	2.47	0.50
3:AA:53:PHE:HB2	3:AA:58:ILE:HG21	1.93	0.50
3:AE:115:ILE:O	3:AE:118:ALA:HB3	2.12	0.50
3:AK:15:ILE:C	3:AK:17:HIS:N	2.68	0.50
4:AL:78:THR:HG22	4:AL:78:THR:O	2.12	0.50
1:AM:70:HIS:O	1:AM:74:ILE:HG22	2.12	0.50
3:AT:19:TRP:CD2	3:AT:81:ILE:HD12	2.47	0.50
2:AX:18:LYS:NZ	2:AX:85:ASP:HB2	2.27	0.50
2:Ah:84:LEU:CA	2:Ah:90:LEU:HD22	2.32	0.50
1:Al:48:PRO:O	1:Al:50:VAL:N	2.44	0.50
2:Am:84:LEU:CA	2:Am:90:LEU:HD22	2.32	0.50
1:Aq:70:HIS:O	1:Aq:74:ILE:HG22	2.12	0.50
3:As:19:TRP:CD2	3:As:81:ILE:HD12	2.46	0.50
4:BT:2:LYS:HB2	4:BT:132:ALA:HB2	1.92	0.50
5:Bb:57:ARG:HH11	5:Bb:57:ARG:HG2	1.76	0.50
4:Bn:5:GLY:O	4:Bn:8:GLU:HG2	2.11	0.50
5:Bv:57:ARG:HH11	5:Bv:57:ARG:HG2	1.76	0.50
9:C1:16:ALA:C	9:C1:18:ALA:N	2.68	0.50
9:C1:17:ASN:ND2	10:C2:17:LEU:HD11	2.22	0.50
10:C7:78:SER:HB3	10:C7:81:PHE:CG	2.47	0.50
10:C7:173:ASP:HB2	10:C7:175:ARG:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:11:GLN:CA	10:CE:13:ILE:CD1	2.78	0.50
8:CC:51:LYS:HZ2	10:CE:46:LYS:HE3	1.76	0.50
8:CC:213:SER:HG	8:CC:215:PHE:HB2	1.76	0.50
9:CD:138:ARG:HG2	9:CD:141:PHE:CD2	2.46	0.50
9:CI:82:VAL:HA	9:CI:88:ASP:OD1	2.12	0.50
10:CJ:114:PHE:O	10:CJ:214:ALA:HA	2.12	0.50
8:CM:14:VAL:HG11	10:CO:13:ILE:CG2	2.11	0.50
10:CO:195:TYR:HD1	10:CO:195:TYR:H	1.60	0.50
7:CP:22:LEU:HD13	7:CP:23:TRP:CH2	2.47	0.50
9:CS:104:VAL:HG11	9:CS:202:ASN:ND2	2.26	0.50
7:CZ:88:PRO:HG2	7:CZ:89:PRO:HD3	1.94	0.50
10:Cd:173:ASP:HB2	10:Cd:175:ARG:H	1.77	0.50
9:Ch:57:ILE:HG23	10:CI:57:LEU:HB3	1.94	0.50
9:Ch:82:VAL:HA	9:Ch:88:ASP:OD1	2.12	0.50
9:Ch:138:ARG:HG2	9:Ch:141:PHE:CD2	2.46	0.50
10:CI:195:TYR:HD1	10:CI:195:TYR:H	1.60	0.50
10:Cn:63:ASP:CB	10:Cn:66:GLU:H	2.24	0.50
9:Cr:140:PHE:HB2	9:Cr:141:PHE:CA	2.40	0.50
10:Cs:195:TYR:H	10:Cs:195:TYR:HD1	1.60	0.50
7:Ct:22:LEU:HD13	7:Ct:23:TRP:CH2	2.47	0.50
8:Cv:213:SER:OG	8:Cv:215:PHE:HB2	2.11	0.50
7:Cy:11:ASP:O	7:Cy:14:ILE:HB	2.12	0.50
1:AM:99:ALA:HA	1:AM:147:ILE:O	2.12	0.49
3:Ae:53:PHE:HB2	3:Ae:58:ILE:HG21	1.93	0.49
3:Ai:115:ILE:O	3:Ai:118:ALA:HB3	2.12	0.49
4:Ak:109:PHE:CE2	4:Ak:113:ILE:HD11	2.46	0.49
4:Ap:78:THR:HG22	4:Ap:78:THR:O	2.12	0.49
1:Aq:99:ALA:HA	1:Aq:147:ILE:O	2.12	0.49
5:B0:8:GLU:HB3	5:B0:141:GLN:NE2	2.26	0.49
5:B5:8:GLU:HB3	5:B5:141:GLN:NE2	2.26	0.49
4:BE:2:LYS:HB2	4:BE:132:ALA:HB2	1.92	0.49
6:BN:115:ILE:O	6:BN:118:ALA:HB3	2.13	0.49
4:Bj:87:GLU:CG	7:Bk:66:LYS:HA	2.41	0.49
6:Br:115:ILE:O	6:Br:118:ALA:HB3	2.13	0.49
5:Bv:56:VAL:O	5:Bv:57:ARG:C	2.54	0.49
8:C0:56:ASN:HD22	8:C0:198:LEU:HB3	1.77	0.49
9:C1:57:ILE:HG23	10:C2:57:LEU:HB3	1.94	0.49
9:C1:140:PHE:CD2	9:C1:141:PHE:CD2	3.00	0.49
8:C5:14:VAL:HG21	10:C7:13:ILE:HD13	1.94	0.49
8:C5:170:PHE:CD1	8:C5:170:PHE:C	2.89	0.49
8:C5:186:GLN:NE2	8:C5:189:GLY:HA3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C6:17:ASN:ND2	10:C7:17:LEU:HD11	2.22	0.49
9:C6:57:ILE:HD12	10:C7:57:LEU:HD12	1.81	0.49
7:CA:22:LEU:HD13	7:CA:23:TRP:CH2	2.47	0.49
5:CB:14:SER:OG	5:CB:15:LEU:N	2.45	0.49
9:CD:57:ILE:HG23	10:CE:57:LEU:HB3	1.94	0.49
10:CE:195:TYR:H	10:CE:195:TYR:HD1	1.60	0.49
9:CN:140:PHE:HB2	9:CN:141:PHE:CA	2.40	0.49
5:CQ:10:LEU:HB3	5:CQ:13:GLU:HG3	1.93	0.49
9:CS:50:ILE:CD1	10:CT:50:LEU:HD22	2.35	0.49
9:CX:38:ALA:HB3	10:CY:35:LEU:HD11	1.87	0.49
9:CX:57:ILE:HG23	10:CY:57:LEU:HB3	1.94	0.49
9:CX:140:PHE:CD2	9:CX:141:PHE:CD2	3.00	0.49
8:Cb:14:VAL:HG21	10:Cd:13:ILE:HD13	1.94	0.49
8:Cb:186:GLN:NE2	8:Cb:189:GLY:HA3	2.27	0.49
9:Cc:57:ILE:HD12	10:Cd:57:LEU:HD12	1.81	0.49
5:Cf:14:SER:OG	5:Cf:15:LEU:N	2.45	0.49
5:Cf:17:VAL:HG13	5:Cf:135:TRP:CE2	2.47	0.49
10:Ci:173:ASP:HB2	10:Ci:175:ARG:H	1.77	0.49
9:Cr:89:CYS:SG	9:Cr:92:ALA:HA	2.52	0.49
9:Cr:104:VAL:HG11	9:Cr:202:ASN:ND2	2.26	0.49
10:Cs:173:ASP:HB2	10:Cs:175:ARG:H	1.77	0.49
5:Cu:10:LEU:HB3	5:Cu:13:GLU:HG3	1.93	0.49
9:Cw:140:PHE:CD2	9:Cw:141:PHE:CD2	3.00	0.49
10:Cx:192:PHE:HE1	10:Cx:198:ASP:O	1.92	0.49
4:AG:109:PHE:CE2	4:AG:113:ILE:HD11	2.46	0.49
1:AH:48:PRO:O	1:AH:50:VAL:N	2.44	0.49
3:AK:53:PHE:HB2	3:AK:58:ILE:HG21	1.93	0.49
3:AO:19:TRP:CD2	3:AO:81:ILE:HD12	2.46	0.49
1:Ab:87:ASP:C	1:Ab:89:PRO:HD2	2.36	0.49
2:Ah:18:LYS:NZ	2:Ah:85:ASP:HB2	2.27	0.49
3:Ai:102:ILE:CG1	3:Ai:150:LEU:HG	2.42	0.49
3:Ax:19:TRP:CD2	3:Ax:81:ILE:HD12	2.47	0.49
4:Az:1:LYS:NZ	4:Az:128:GLU:HA	2.27	0.49
6:B6:115:ILE:O	6:B6:118:ALA:HB3	2.13	0.49
6:BD:15:ILE:C	6:BD:17:HIS:N	2.67	0.49
4:BE:78:THR:HG22	7:CA:72:LEU:CD1	2.42	0.49
4:BF:13:LYS:HE3	4:BF:77:SER:O	2.12	0.49
4:BJ:78:THR:HG22	7:CF:72:LEU:CD1	2.42	0.49
5:BR:56:VAL:O	5:BR:57:ARG:C	2.54	0.49
5:BR:57:ARG:HH11	5:BR:57:ARG:HG2	1.76	0.49
6:Bh:15:ILE:C	6:Bh:17:HIS:N	2.67	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bi:2:LYS:HB2	4:Bi:132:ALA:HB2	1.92	0.49
4:Bj:13:LYS:HE3	4:Bj:77:SER:O	2.12	0.49
4:Bn:78:THR:HG22	7:Cj:72:LEU:CD1	2.42	0.49
4:Bs:78:THR:HG22	7:Co:72:LEU:CD1	2.42	0.49
6:Bw:127:LEU:HD23	6:Bw:127:LEU:N	2.28	0.49
10:C2:120:ARG:HD2	10:C2:152:SER:CB	2.43	0.49
8:C5:18:ASN:C	10:C7:20:ARG:NH1	2.67	0.49
5:CB:17:VAL:HG13	5:CB:135:TRP:CE2	2.47	0.49
8:CC:14:VAL:HG21	10:CE:13:ILE:CD1	2.41	0.49
10:CE:173:ASP:HB2	10:CE:175:ARG:H	1.77	0.49
9:CI:57:ILE:HG23	10:CJ:57:LEU:HB3	1.94	0.49
9:CN:104:VAL:HG11	9:CN:202:ASN:ND2	2.26	0.49
10:CO:173:ASP:HB2	10:CO:175:ARG:H	1.77	0.49
9:CS:140:PHE:CD2	9:CS:141:PHE:CD2	3.00	0.49
8:CW:56:ASN:HD22	8:CW:198:LEU:HB3	1.77	0.49
8:Cb:28:LEU:CD1	10:Cd:27:SER:HB3	2.23	0.49
8:Cb:210:VAL:HG12	8:Cb:215:PHE:O	2.12	0.49
9:Cc:203:GLU:HG3	9:Cc:225:LEU:HB3	1.94	0.49
7:Ce:22:LEU:HD13	7:Ce:23:TRP:CH2	2.47	0.49
9:Cm:57:ILE:HG23	10:Cn:57:LEU:HB3	1.94	0.49
9:Cm:82:VAL:HA	9:Cm:88:ASP:OD1	2.12	0.49
8:Cv:155:LEU:CD1	8:Cv:161:THR:HB	2.36	0.49
1:A0:70:HIS:O	1:A0:74:ILE:HG22	2.12	0.49
1:A0:99:ALA:HA	1:A0:147:ILE:O	2.12	0.49
4:AB:1:LYS:NZ	4:AB:128:GLU:HA	2.27	0.49
2:AD:18:LYS:NZ	2:AD:85:ASP:HB2	2.27	0.49
2:AD:84:LEU:CA	2:AD:90:LEU:HD22	2.32	0.49
3:AE:102:ILE:CG1	3:AE:150:LEU:HG	2.42	0.49
2:AS:18:LYS:NZ	2:AS:85:ASP:HB2	2.27	0.49
3:AT:115:ILE:O	3:AT:118:ALA:HB3	2.12	0.49
4:AV:1:LYS:NZ	4:AV:128:GLU:HA	2.27	0.49
1:AW:99:ALA:HA	1:AW:147:ILE:O	2.12	0.49
3:AY:19:TRP:CD2	3:AY:81:ILE:HD12	2.46	0.49
4:Aa:78:THR:HG22	4:Aa:78:THR:O	2.12	0.49
3:Ad:60:GLU:O	3:Ad:63:SER:HB3	2.12	0.49
3:Ao:53:PHE:HB2	3:Ao:58:ILE:HG21	1.93	0.49
4:Ap:1:LYS:NZ	4:Ap:128:GLU:HA	2.27	0.49
5:B0:57:ARG:HH11	5:B0:57:ARG:HG2	1.76	0.49
4:B3:120:GLN:HG2	9:C6:80:LEU:CD1	2.31	0.49
4:BO:78:THR:HG22	7:CK:72:LEU:CD1	2.42	0.49
5:BR:8:GLU:HB3	5:BR:141:GLN:NE2	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BS:127:LEU:HD23	6:BS:127:LEU:N	2.28	0.49
5:BW:8:GLU:HB3	5:BW:141:GLN:NE2	2.26	0.49
5:Bb:8:GLU:HB3	5:Bb:141:GLN:NE2	2.26	0.49
6:Bc:115:ILE:O	6:Bc:118:ALA:HB3	2.13	0.49
4:Bi:78:THR:HG22	7:Ce:72:LEU:CD1	2.42	0.49
5:Bv:8:GLU:HB3	5:Bv:141:GLN:NE2	2.26	0.49
8:C0:56:ASN:HB2	8:C0:198:LEU:O	2.08	0.49
9:C1:82:VAL:HA	9:C1:88:ASP:OD1	2.12	0.49
8:C5:210:VAL:HG12	8:C5:215:PHE:O	2.12	0.49
9:C6:57:ILE:HG23	10:C7:57:LEU:HB3	1.94	0.49
9:C6:203:GLU:HG3	9:C6:225:LEU:HB3	1.94	0.49
9:CI:203:GLU:HG3	9:CI:225:LEU:HB3	1.94	0.49
10:CJ:173:ASP:HB2	10:CJ:175:ARG:H	1.77	0.49
9:CN:89:CYS:SG	9:CN:92:ALA:HA	2.52	0.49
9:CS:57:ILE:HG23	10:CT:57:LEU:HB3	1.94	0.49
9:CX:16:ALA:C	9:CX:18:ALA:N	2.68	0.49
9:CX:17:ASN:ND2	10:CY:17:LEU:HD11	2.22	0.49
10:CY:114:PHE:O	10:CY:214:ALA:HA	2.12	0.49
10:CY:120:ARG:HD2	10:CY:152:SER:CB	2.43	0.49
8:Cb:170:PHE:CD1	8:Cb:170:PHE:C	2.89	0.49
9:Cc:17:ASN:ND2	10:Cd:17:LEU:HD11	2.22	0.49
9:Cc:57:ILE:HG23	10:Cd:57:LEU:HB3	1.94	0.49
8:Cg:14:VAL:HG21	10:CI:13:ILE:CD1	2.41	0.49
8:Cg:210:VAL:HG12	8:Cg:215:PHE:O	2.12	0.49
10:CI:120:ARG:HD2	10:CI:152:SER:CB	2.42	0.49
8:Cl:115:ALA:HB2	8:Cl:128:ALA:HB2	1.94	0.49
9:Cm:117:TRP:HB3	9:Cm:119:GLY:N	2.27	0.49
9:Cm:203:GLU:HG3	9:Cm:225:LEU:HB3	1.94	0.49
10:Cn:173:ASP:HB2	10:Cn:175:ARG:H	1.77	0.49
8:Cq:82:PHE:CD1	8:Cq:83:CYS:HA	2.40	0.49
9:Cr:137:ARG:CB	9:Cr:141:PHE:HB3	2.34	0.49
9:Cw:57:ILE:HG23	10:Cx:57:LEU:HB3	1.94	0.49
3:A2:19:TRP:CD2	3:A2:81:ILE:HD12	2.46	0.49
4:A4:78:THR:HG22	4:A4:78:THR:O	2.12	0.49
1:A5:87:ASP:C	1:A5:89:PRO:HD2	2.36	0.49
2:A6:18:LYS:HZ3	2:A6:85:ASP:HB2	1.77	0.49
3:A7:60:GLU:O	3:A7:63:SER:HB3	2.12	0.49
3:AA:115:ILE:O	3:AA:118:ALA:HB3	2.13	0.49
1:AC:70:HIS:O	1:AC:74:ILE:HG22	2.12	0.49
3:AE:15:ILE:C	3:AE:17:HIS:H	2.20	0.49
3:AF:53:PHE:HB2	3:AF:58:ILE:HG21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AG:1:LYS:NZ	4:AG:128:GLU:HA	2.27	0.49
3:AK:115:ILE:O	3:AK:118:ALA:HB3	2.13	0.49
4:AL:1:LYS:NZ	4:AL:128:GLU:HA	2.27	0.49
4:AQ:78:THR:HG22	4:AQ:78:THR:O	2.12	0.49
1:AR:99:ALA:HA	1:AR:147:ILE:O	2.12	0.49
1:AW:70:HIS:O	1:AW:74:ILE:HG22	2.12	0.49
3:Ae:115:ILE:O	3:Ae:118:ALA:HB3	2.13	0.49
4:Af:1:LYS:NZ	4:Af:128:GLU:HA	2.27	0.49
1:Ag:70:HIS:O	1:Ag:74:ILE:HG22	2.12	0.49
3:Ai:15:ILE:C	3:Ai:17:HIS:H	2.20	0.49
3:Aj:53:PHE:HB2	3:Aj:58:ILE:HG21	1.93	0.49
2:Am:18:LYS:NZ	2:Am:85:ASP:HB2	2.27	0.49
4:Au:78:THR:HG22	4:Au:78:THR:O	2.12	0.49
1:Av:99:ALA:HA	1:Av:147:ILE:O	2.12	0.49
2:Aw:18:LYS:NZ	2:Aw:85:ASP:HB2	2.27	0.49
3:Ax:115:ILE:O	3:Ax:118:ALA:HB3	2.12	0.49
6:B1:115:ILE:O	6:B1:118:ALA:HB3	2.13	0.49
4:B2:78:THR:HG22	7:Cy:72:LEU:CD1	2.42	0.49
4:BA:13:LYS:HE3	4:BA:77:SER:O	2.12	0.49
7:BB:87:ASP:C	7:BB:89:PRO:HD2	2.38	0.49
6:BI:127:LEU:HD23	6:BI:127:LEU:N	2.28	0.49
6:BN:127:LEU:HD23	6:BN:127:LEU:N	2.28	0.49
6:BX:115:ILE:O	6:BX:118:ALA:HB3	2.13	0.49
6:BX:127:LEU:HD23	6:BX:127:LEU:N	2.28	0.49
4:BY:78:THR:HG22	7:CU:72:LEU:CD1	2.42	0.49
7:Bf:87:ASP:C	7:Bf:89:PRO:HD2	2.38	0.49
6:Br:127:LEU:HD23	6:Br:127:LEU:N	2.28	0.49
8:C0:186:GLN:NE2	8:C0:189:GLY:HA3	2.27	0.49
9:C1:57:ILE:HD13	10:C2:57:LEU:HB2	1.94	0.49
10:C2:114:PHE:O	10:C2:214:ALA:HA	2.12	0.49
10:C2:173:ASP:HB2	10:C2:175:ARG:H	1.77	0.49
10:C7:9:SER:O	10:C7:13:ILE:HG13	2.13	0.49
8:CC:210:VAL:HG12	8:CC:215:PHE:O	2.12	0.49
10:CE:120:ARG:HD2	10:CE:152:SER:CB	2.42	0.49
8:CH:115:ALA:HB2	8:CH:128:ALA:HB2	1.94	0.49
8:CH:210:VAL:HG12	8:CH:215:PHE:O	2.12	0.49
9:CI:117:TRP:HB3	9:CI:119:GLY:N	2.27	0.49
7:CK:72:LEU:O	7:CK:73:ARG:C	2.56	0.49
5:CV:17:VAL:HG13	5:CV:135:TRP:CE2	2.47	0.49
8:CW:42:VAL:HG23	8:CW:46:THR:HG1	1.75	0.49
8:CW:186:GLN:NE2	8:CW:189:GLY:HA3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CX:18:ALA:C	9:CX:20:LEU:N	2.67	0.49
10:CY:173:ASP:HB2	10:CY:175:ARG:H	1.77	0.49
8:Cb:155:LEU:CD1	8:Cb:161:THR:HB	2.36	0.49
10:Cd:9:SER:O	10:Cd:13:ILE:HG13	2.13	0.49
10:Ci:114:PHE:O	10:Ci:214:ALA:HA	2.12	0.49
10:Cn:78:SER:HB3	10:Cn:81:PHE:CG	2.47	0.49
7:Co:72:LEU:O	7:Co:73:ARG:C	2.56	0.49
10:Cs:114:PHE:O	10:Cs:214:ALA:HA	2.12	0.49
9:Cw:50:ILE:CD1	10:Cx:50:LEU:HD22	2.35	0.49
9:Cw:57:ILE:HD13	10:Cx:57:LEU:HB2	1.94	0.49
2:AI:18:LYS:NZ	2:AI:85:ASP:HB2	2.27	0.49
2:AI:84:LEU:CA	2:AI:90:LEU:HD22	2.32	0.49
3:AO:127:LEU:HD23	3:AO:127:LEU:N	2.28	0.49
3:AT:15:ILE:C	3:AT:17:HIS:N	2.67	0.49
3:AY:15:ILE:C	3:AY:17:HIS:N	2.67	0.49
3:Ai:23:TRP:CD1	3:Ai:78:LYS:HZ2	2.30	0.49
4:Ak:1:LYS:NZ	4:Ak:128:GLU:HA	2.27	0.49
3:An:102:ILE:CG1	3:An:150:LEU:HG	2.42	0.49
3:Ao:115:ILE:O	3:Ao:118:ALA:HB3	2.13	0.49
3:As:127:LEU:HD23	3:As:127:LEU:N	2.28	0.49
1:Av:9:GLU:HA	1:Av:12:HIS:CE1	2.48	0.49
2:Aw:107:LYS:HG3	2:Aw:110:PHE:CE2	2.47	0.49
3:Ax:15:ILE:C	3:Ax:17:HIS:N	2.67	0.49
3:Ax:102:ILE:CG1	3:Ax:150:LEU:HG	2.42	0.49
5:B0:14:SER:O	5:B0:17:VAL:N	2.46	0.49
6:B1:127:LEU:HD23	6:B1:127:LEU:N	2.28	0.49
4:B3:109:PHE:CE2	4:B3:113:ILE:HD11	2.48	0.49
5:B5:14:SER:O	5:B5:17:VAL:N	2.46	0.49
7:BG:87:ASP:C	7:BG:89:PRO:HD2	2.38	0.49
5:BH:14:SER:O	5:BH:17:VAL:N	2.46	0.49
5:BR:14:SER:O	5:BR:17:VAL:N	2.46	0.49
4:BT:78:THR:HG22	7:CP:72:LEU:CD1	2.42	0.49
4:BU:109:PHE:CE2	4:BU:113:ILE:HD11	2.48	0.49
5:BW:14:SER:O	5:BW:17:VAL:N	2.46	0.49
5:BW:57:ARG:HH11	5:BW:57:ARG:HG2	1.76	0.49
4:BZ:109:PHE:CE2	4:BZ:113:ILE:HD11	2.48	0.49
5:Bb:14:SER:O	5:Bb:17:VAL:N	2.46	0.49
4:Be:13:LYS:HE3	4:Be:77:SER:O	2.12	0.49
7:Bk:87:ASP:C	7:Bk:89:PRO:HD2	2.38	0.49
6:Bm:127:LEU:HD23	6:Bm:127:LEU:N	2.28	0.49
5:Bv:14:SER:O	5:Bv:17:VAL:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:By:109:PHE:CE2	4:By:113:ILE:HD11	2.48	0.49
8:CC:186:GLN:NE2	8:CC:189:GLY:HA3	2.27	0.49
9:CD:203:GLU:HG3	9:CD:225:LEU:HB3	1.94	0.49
10:CE:114:PHE:O	10:CE:214:ALA:HA	2.12	0.49
9:CI:104:VAL:HG11	9:CI:202:ASN:ND2	2.26	0.49
10:CJ:9:SER:O	10:CJ:13:ILE:HG13	2.13	0.49
10:CJ:78:SER:HB3	10:CJ:81:PHE:CG	2.47	0.49
7:CK:87:ASP:C	7:CK:89:PRO:HD2	2.36	0.49
9:CN:82:VAL:HA	9:CN:88:ASP:OD1	2.12	0.49
9:CN:137:ARG:CB	9:CN:141:PHE:HB3	2.34	0.49
10:CO:63:ASP:CB	10:CO:66:GLU:H	2.24	0.49
10:CO:114:PHE:O	10:CO:214:ALA:HA	2.12	0.49
9:CS:57:ILE:HD13	10:CT:57:LEU:HB2	1.94	0.49
10:CT:173:ASP:HB2	10:CT:175:ARG:H	1.77	0.49
9:CX:57:ILE:HD13	10:CY:57:LEU:HB2	1.94	0.49
9:CX:82:VAL:HA	9:CX:88:ASP:OD1	2.12	0.49
8:Cb:18:ASN:C	10:Cd:20:ARG:NH1	2.67	0.49
8:Cg:186:GLN:NE2	8:Cg:189:GLY:HA3	2.27	0.49
9:Ch:203:GLU:HG3	9:Ch:225:LEU:HB3	1.94	0.49
8:Cl:210:VAL:HG12	8:Cl:215:PHE:O	2.12	0.49
8:Cq:115:ALA:HB2	8:Cq:128:ALA:HB2	1.94	0.49
5:Cz:17:VAL:HG13	5:Cz:135:TRP:CE2	2.47	0.49
3:A2:115:ILE:O	3:A2:118:ALA:HB3	2.12	0.49
4:AB:85:LEU:O	4:AB:86:LYS:C	2.56	0.49
3:AJ:102:ILE:CG1	3:AJ:150:LEU:HG	2.42	0.49
2:AN:102:VAL:HG13	2:AN:103:GLU:N	2.28	0.49
3:AO:115:ILE:O	3:AO:118:ALA:HB3	2.12	0.49
1:AR:9:GLU:HA	1:AR:12:HIS:CE1	2.48	0.49
2:AS:107:LYS:HG3	2:AS:110:PHE:CE2	2.47	0.49
4:Af:85:LEU:O	4:Af:86:LYS:C	2.56	0.49
2:Ar:102:VAL:HG13	2:Ar:103:GLU:N	2.28	0.49
3:As:60:GLU:O	3:As:63:SER:HB3	2.12	0.49
7:BL:87:ASP:C	7:BL:89:PRO:HD2	2.38	0.49
5:BM:14:SER:O	5:BM:17:VAL:N	2.46	0.49
4:BP:109:PHE:CE2	4:BP:113:ILE:HD11	2.48	0.49
7:Ba:87:ASP:C	7:Ba:89:PRO:HD2	2.38	0.49
4:Bj:51:VAL:HG22	4:Bj:51:VAL:O	2.13	0.49
5:Bl:14:SER:O	5:Bl:17:VAL:N	2.46	0.49
7:Bp:87:ASP:C	7:Bp:89:PRO:HD2	2.38	0.49
5:Bq:14:SER:O	5:Bq:17:VAL:N	2.46	0.49
4:Bt:109:PHE:CE2	4:Bt:113:ILE:HD11	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bx:78:THR:HG22	7:Ct:72:LEU:CD1	2.42	0.49
9:C1:18:ALA:C	9:C1:20:LEU:N	2.67	0.49
10:C7:195:TYR:H	10:C7:195:TYR:HD1	1.60	0.49
9:CI:89:CYS:SG	9:CI:92:ALA:HA	2.52	0.49
10:CJ:173:ASP:O	10:CJ:174:HIS:HB2	2.13	0.49
8:CM:115:ALA:HB2	8:CM:128:ALA:HB2	1.94	0.49
9:CN:38:ALA:HB3	10:CO:35:LEU:HD11	1.88	0.49
9:CN:117:TRP:HB3	9:CN:119:GLY:N	2.27	0.49
10:CT:63:ASP:CB	10:CT:66:GLU:H	2.24	0.49
10:CT:114:PHE:O	10:CT:214:ALA:HA	2.12	0.49
8:CW:56:ASN:HB2	8:CW:198:LEU:O	2.08	0.49
9:Ch:92:ALA:HB3	9:Ch:95:GLU:CG	2.20	0.49
9:Cm:89:CYS:SG	9:Cm:92:ALA:HA	2.52	0.49
10:Cn:9:SER:O	10:Cn:13:ILE:HG13	2.13	0.49
7:Co:87:ASP:C	7:Co:89:PRO:HD2	2.36	0.49
10:Cs:63:ASP:CB	10:Cs:66:GLU:H	2.24	0.49
7:Ct:129:ASP:OD1	7:Ct:129:ASP:N	2.37	0.49
10:Cx:173:ASP:HB2	10:Cx:175:ARG:H	1.77	0.49
3:A7:15:ILE:C	3:A7:17:HIS:H	2.20	0.49
3:AF:115:ILE:O	3:AF:118:ALA:HB3	2.13	0.49
2:AI:102:VAL:HG13	2:AI:103:GLU:N	2.28	0.49
3:AJ:150:LEU:CB	3:AJ:151:PRO:HD3	2.43	0.49
2:AN:18:LYS:NZ	2:AN:85:ASP:HB2	2.27	0.49
3:AO:60:GLU:O	3:AO:63:SER:HB3	2.12	0.49
3:AO:102:ILE:CG1	3:AO:150:LEU:HG	2.42	0.49
3:AT:102:ILE:CG1	3:AT:150:LEU:HG	2.42	0.49
3:Ai:127:LEU:HD23	3:Ai:127:LEU:N	2.28	0.49
3:Aj:115:ILE:O	3:Aj:118:ALA:HB3	2.13	0.49
2:Am:102:VAL:HG13	2:Am:103:GLU:N	2.28	0.49
3:As:102:ILE:CG1	3:As:150:LEU:HG	2.42	0.49
7:B4:87:ASP:C	7:B4:89:PRO:HD2	2.38	0.49
4:BF:51:VAL:HG22	4:BF:51:VAL:O	2.13	0.49
4:BF:109:PHE:CE2	4:BF:113:ILE:HD11	2.48	0.49
4:BU:13:LYS:HE3	4:BU:77:SER:O	2.12	0.49
4:Bj:109:PHE:CE2	4:Bj:113:ILE:HD11	2.48	0.49
4:By:13:LYS:HE3	4:By:77:SER:O	2.12	0.49
8:C0:189:GLY:O	8:C0:211:PRO:HG2	2.13	0.49
7:C3:48:PRO:O	7:C3:50:VAL:N	2.46	0.49
5:C4:10:LEU:HB3	5:C4:13:GLU:HG3	1.93	0.49
8:C5:28:LEU:CD1	10:C7:27:SER:HB3	2.23	0.49
8:C5:155:LEU:CD1	8:C5:161:THR:HB	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C5:181:ALA:HB1	8:C5:182:PRO:HD2	1.95	0.49
5:CB:83:MET:SD	5:CB:89:MET:HB3	2.53	0.49
5:CB:111:PHE:HB3	5:CB:143:ILE:HG23	1.95	0.49
9:CD:92:ALA:HB3	9:CD:95:GLU:CG	2.20	0.49
9:CD:162:VAL:CG1	9:CD:163:THR:N	2.76	0.49
8:CM:82:PHE:CD1	8:CM:83:CYS:HA	2.40	0.49
8:CR:189:GLY:O	8:CR:211:PRO:HG2	2.13	0.49
10:CT:78:SER:HB3	10:CT:81:PHE:CG	2.47	0.49
5:CV:83:MET:SD	5:CV:89:MET:HB3	2.53	0.49
5:CV:111:PHE:HB3	5:CV:143:ILE:HG23	1.95	0.49
8:CW:189:GLY:O	8:CW:211:PRO:HG2	2.13	0.49
8:CW:210:VAL:HG12	8:CW:215:PHE:O	2.12	0.49
5:Ca:10:LEU:HB3	5:Ca:13:GLU:HG3	1.93	0.49
10:Cd:195:TYR:H	10:Cd:195:TYR:HD1	1.60	0.49
5:Cf:83:MET:SD	5:Cf:89:MET:HB3	2.53	0.49
5:Cf:111:PHE:HB3	5:Cf:143:ILE:HG23	1.95	0.49
8:Cg:189:GLY:O	8:Cg:211:PRO:HG2	2.13	0.49
9:Ch:162:VAL:CG1	9:Ch:163:THR:N	2.76	0.49
9:Cm:104:VAL:HG11	9:Cm:202:ASN:ND2	2.26	0.49
10:Cn:173:ASP:O	10:Cn:174:HIS:HB2	2.13	0.49
9:Cr:82:VAL:HA	9:Cr:88:ASP:OD1	2.12	0.49
8:Cv:189:GLY:O	8:Cv:211:PRO:HG2	2.13	0.49
5:Cz:83:MET:SD	5:Cz:89:MET:HB3	2.53	0.49
5:Cz:111:PHE:HB3	5:Cz:143:ILE:HG23	1.95	0.49
3:A2:15:ILE:C	3:A2:17:HIS:N	2.67	0.49
3:A3:115:ILE:O	3:A3:118:ALA:HB3	2.13	0.49
3:A7:127:LEU:HD23	3:A7:127:LEU:N	2.28	0.49
1:AC:9:GLU:HA	1:AC:12:HIS:CE1	2.48	0.49
1:AC:150:ARG:HH11	1:AC:150:ARG:HG3	1.78	0.49
3:AE:127:LEU:HD23	3:AE:127:LEU:N	2.28	0.49
4:AL:28:ALA:O	4:AL:29:PHE:C	2.56	0.49
3:AO:15:ILE:C	3:AO:17:HIS:H	2.20	0.49
3:AO:150:LEU:CB	3:AO:151:PRO:HD3	2.43	0.49
4:AQ:85:LEU:O	4:AQ:86:LYS:C	2.56	0.49
3:AT:127:LEU:HD23	3:AT:127:LEU:N	2.28	0.49
3:AU:150:LEU:HD23	3:AU:150:LEU:N	2.24	0.49
3:AY:115:ILE:O	3:AY:118:ALA:HB3	2.12	0.49
2:Ac:18:LYS:HZ3	2:Ac:85:ASP:HB2	1.78	0.49
3:Ad:127:LEU:HD23	3:Ad:127:LEU:N	2.28	0.49
1:Ag:9:GLU:HA	1:Ag:12:HIS:CE1	2.48	0.49
1:Ag:150:ARG:HH11	1:Ag:150:ARG:HG3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:An:150:LEU:CB	3:An:151:PRO:HD3	2.43	0.49
4:Ap:28:ALA:O	4:Ap:29:PHE:C	2.56	0.49
3:As:115:ILE:O	3:As:118:ALA:HB3	2.12	0.49
3:As:150:LEU:CB	3:As:151:PRO:HD3	2.43	0.49
4:Au:85:LEU:O	4:Au:86:LYS:C	2.56	0.49
4:Be:110:LYS:HG3	4:Be:134:ILE:CG2	2.37	0.49
7:Bu:11:ASP:O	7:Bu:14:ILE:HB	2.13	0.49
8:C0:210:VAL:HG12	8:C0:215:PHE:O	2.12	0.49
5:C4:83:MET:SD	5:C4:89:MET:HB3	2.53	0.49
9:C6:140:PHE:CD2	9:C6:141:PHE:CD2	3.00	0.49
10:C7:93:GLU:O	10:C7:95:GLU:N	2.46	0.49
7:CA:11:ASP:O	7:CA:14:ILE:HB	2.12	0.49
8:CC:189:GLY:O	8:CC:211:PRO:HG2	2.13	0.49
9:CD:140:PHE:HB2	9:CD:141:PHE:CA	2.40	0.49
10:CE:9:SER:O	10:CE:13:ILE:HG13	2.13	0.49
10:CE:173:ASP:O	10:CE:174:HIS:HB2	2.13	0.49
8:CH:10:PHE:CD2	10:CJ:10:HIS:CA	2.95	0.49
8:CH:186:GLN:NE2	8:CH:189:GLY:HA3	2.27	0.49
8:CM:14:VAL:HG21	10:CO:13:ILE:HD13	1.94	0.49
7:CP:129:ASP:OD1	7:CP:129:ASP:N	2.37	0.49
8:CR:28:LEU:CD1	10:CT:27:SER:HB3	2.23	0.49
7:CU:72:LEU:O	7:CU:73:ARG:C	2.56	0.49
7:CZ:48:PRO:O	7:CZ:50:VAL:N	2.46	0.49
5:Ca:83:MET:SD	5:Ca:89:MET:HB3	2.53	0.49
8:Cb:181:ALA:HB1	8:Cb:182:PRO:HD2	1.95	0.49
9:Cc:140:PHE:CD2	9:Cc:141:PHE:CD2	3.00	0.49
10:Cd:93:GLU:O	10:Cd:95:GLU:N	2.46	0.49
8:Cg:18:ASN:C	10:Ci:20:ARG:NH1	2.67	0.49
9:Ch:140:PHE:HB2	9:Ch:141:PHE:CA	2.40	0.49
10:Ci:9:SER:O	10:Ci:13:ILE:HG13	2.13	0.49
8:Cl:186:GLN:NE2	8:Cl:189:GLY:HA3	2.27	0.49
8:Cq:21:ILE:HG23	10:Cs:20:ARG:HG2	1.37	0.49
9:Cr:117:TRP:HB3	9:Cr:119:GLY:N	2.27	0.49
5:Cu:111:PHE:HB3	5:Cu:143:ILE:HG23	1.95	0.49
10:Cx:63:ASP:CB	10:Cx:66:GLU:H	2.24	0.49
10:Cx:78:SER:HB3	10:Cx:81:PHE:CG	2.47	0.49
10:Cx:114:PHE:O	10:Cx:214:ALA:HA	2.12	0.49
7:Cy:72:LEU:O	7:Cy:73:ARG:C	2.56	0.49
1:A5:9:GLU:HA	1:A5:12:HIS:CE1	2.48	0.49
1:AH:9:GLU:HA	1:AH:12:HIS:CE1	2.48	0.49
1:AH:70:HIS:O	1:AH:74:ILE:HG22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AP:115:ILE:O	3:AP:118:ALA:HB3	2.13	0.49
3:AU:115:ILE:O	3:AU:118:ALA:HB3	2.13	0.49
3:AZ:115:ILE:O	3:AZ:118:ALA:HB3	2.13	0.49
3:Ad:23:TRP:CD1	3:Ad:78:LYS:HZ2	2.30	0.49
3:Ad:60:GLU:HB2	3:Ad:63:SER:HB3	1.95	0.49
4:Ak:85:LEU:O	4:Ak:86:LYS:C	2.56	0.49
1:Al:9:GLU:HA	1:Al:12:HIS:CE1	2.48	0.49
1:Al:11:ASP:O	1:Al:14:ILE:HB	2.13	0.49
2:Ar:18:LYS:NZ	2:Ar:85:ASP:HB2	2.27	0.49
3:Ax:127:LEU:HD23	3:Ax:127:LEU:N	2.28	0.49
4:BA:35:ARG:CZ	9:CD:81:LEU:HD11	2.43	0.49
4:BA:110:LYS:HG3	4:BA:134:ILE:CG2	2.37	0.49
6:BD:127:LEU:HD23	6:BD:127:LEU:N	2.28	0.49
4:BK:92:LEU:CD1	4:BK:141:ILE:HG12	2.43	0.49
7:BQ:11:ASP:O	7:BQ:14:ILE:HB	2.13	0.49
7:BV:11:ASP:O	7:BV:14:ILE:HB	2.13	0.49
4:Be:35:ARG:CZ	9:Ch:81:LEU:HD11	2.43	0.49
6:Bh:115:ILE:O	6:Bh:118:ALA:HB3	2.13	0.49
4:Bo:92:LEU:CD1	4:Bo:141:ILE:HG12	2.43	0.49
7:Bz:11:ASP:O	7:Bz:14:ILE:HB	2.13	0.49
8:C0:181:ALA:HB1	8:C0:182:PRO:HD2	1.95	0.49
10:C2:78:SER:HB3	10:C2:81:PHE:CG	2.47	0.49
7:C3:11:ASP:O	7:C3:14:ILE:HB	2.12	0.49
5:C4:111:PHE:HB3	5:C4:143:ILE:HG23	1.95	0.49
9:C6:117:TRP:HB3	9:C6:119:GLY:N	2.27	0.49
8:CC:176:ARG:CB	8:CC:196:PHE:CB	2.91	0.49
9:CD:117:TRP:HB3	9:CD:119:GLY:N	2.27	0.49
10:CE:93:GLU:O	10:CE:95:GLU:N	2.46	0.49
5:CQ:111:PHE:HB3	5:CQ:143:ILE:HG23	1.95	0.49
8:CR:14:VAL:HG21	10:CT:13:ILE:HD13	1.94	0.49
9:CS:82:VAL:HA	9:CS:88:ASP:OD1	2.12	0.49
8:CW:155:LEU:CD1	8:CW:161:THR:HB	2.36	0.49
8:CW:181:ALA:HB1	8:CW:182:PRO:HD2	1.95	0.49
10:CY:80:LEU:HD23	10:CY:80:LEU:N	2.26	0.49
7:CZ:11:ASP:O	7:CZ:14:ILE:HB	2.12	0.49
5:Ca:111:PHE:HB3	5:Ca:143:ILE:HG23	1.95	0.49
8:Cb:14:VAL:CG2	10:Cd:13:ILE:HD13	2.43	0.49
9:Cc:117:TRP:HB3	9:Cc:119:GLY:N	2.27	0.49
8:Cg:51:LYS:HZ2	10:Ci:46:LYS:HE3	1.77	0.49
9:Ch:117:TRP:HB3	9:Ch:119:GLY:N	2.27	0.49
10:Ci:173:ASP:O	10:Ci:174:HIS:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ck:83:MET:SD	5:Ck:89:MET:HB3	2.53	0.49
8:Cl:10:PHE:CD2	10:Cn:10:HIS:CA	2.95	0.49
8:Cq:14:VAL:HG21	10:Cs:13:ILE:HD13	1.94	0.49
8:Cq:44:LYS:HE3	10:Cs:46:LYS:HZ2	1.75	0.49
9:Cr:140:PHE:CD2	9:Cr:141:PHE:CD2	3.00	0.49
8:Cv:14:VAL:HG21	10:Cx:13:ILE:HD13	1.94	0.49
9:Cw:82:VAL:HA	9:Cw:88:ASP:OD1	2.12	0.49
3:A7:60:GLU:HB2	3:A7:63:SER:HB3	1.95	0.49
1:AH:11:ASP:O	1:AH:14:ILE:HB	2.13	0.49
2:AX:102:VAL:HG13	2:AX:103:GLU:N	2.28	0.49
1:Ab:9:GLU:HA	1:Ab:12:HIS:CE1	2.48	0.49
2:Ac:102:VAL:HG13	2:Ac:103:GLU:N	2.28	0.49
3:Ad:15:ILE:C	3:Ad:17:HIS:H	2.20	0.49
3:Ad:102:ILE:CG1	3:Ad:150:LEU:HG	2.42	0.49
2:Ah:147:LYS:HE2	2:Ah:147:LYS:HB3	1.49	0.49
4:Ak:78:THR:HG22	4:Ak:78:THR:O	2.12	0.49
3:At:115:ILE:O	3:At:118:ALA:HB3	2.13	0.49
3:Ay:150:LEU:HD23	3:Ay:150:LEU:N	2.24	0.49
6:B6:150:LEU:HA	6:B6:150:LEU:HD23	1.08	0.49
5:BC:14:SER:O	5:BC:17:VAL:N	2.46	0.49
4:BK:2:LYS:HD3	4:BK:8:GLU:OE1	2.13	0.49
4:BK:120:GLN:HA	9:CN:65:ARG:HH22	1.78	0.49
4:BP:35:ARG:CZ	9:CS:81:LEU:HD11	2.43	0.49
6:BS:115:ILE:O	6:BS:118:ALA:HB3	2.13	0.49
4:BU:35:ARG:CZ	9:CX:81:LEU:HD11	2.43	0.49
5:Bg:14:SER:O	5:Bg:17:VAL:N	2.46	0.49
6:Bh:127:LEU:HD23	6:Bh:127:LEU:N	2.28	0.49
4:Bo:2:LYS:HD3	4:Bo:8:GLU:OE1	2.13	0.49
4:Bo:13:LYS:HE3	4:Bo:77:SER:O	2.13	0.49
4:Bo:120:GLN:HA	9:Cr:65:ARG:HH22	1.78	0.49
7:Bp:11:ASP:O	7:Bp:14:ILE:HB	2.13	0.49
4:By:35:ARG:CZ	9:C1:81:LEU:HD11	2.43	0.49
10:C2:93:GLU:O	10:C2:95:GLU:N	2.46	0.49
8:C5:14:VAL:CG2	10:C7:13:ILE:HD13	2.43	0.49
9:C6:137:ARG:CB	9:C6:141:PHE:HB3	2.34	0.49
8:CC:18:ASN:C	10:CE:20:ARG:NH1	2.67	0.49
8:CC:42:VAL:HG11	9:CD:47:VAL:HG11	1.95	0.49
9:CD:18:ALA:C	9:CD:20:LEU:N	2.67	0.49
5:CG:83:MET:SD	5:CG:89:MET:HB3	2.53	0.49
8:CH:42:VAL:HG11	9:CI:47:VAL:HG11	1.95	0.49
8:CH:176:ARG:CB	8:CH:196:PHE:CB	2.91	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:57:ILE:CB	10:CJ:57:LEU:HD12	2.43	0.49
5:CL:83:MET:SD	5:CL:89:MET:HB3	2.53	0.49
8:CM:14:VAL:CG2	10:CO:13:ILE:HD13	2.43	0.49
8:CM:181:ALA:HB1	8:CM:182:PRO:HD2	1.95	0.49
9:CN:140:PHE:CD2	9:CN:141:PHE:CD2	3.00	0.49
10:CO:9:SER:O	10:CO:13:ILE:HG13	2.13	0.49
8:CR:181:ALA:HB1	8:CR:182:PRO:HD2	1.95	0.49
9:CS:140:PHE:HB2	9:CS:141:PHE:CA	2.40	0.49
10:CT:10:HIS:O	10:CT:13:ILE:HB	2.13	0.49
10:CY:9:SER:O	10:CY:13:ILE:HG13	2.13	0.49
10:CY:78:SER:HB3	10:CY:81:PHE:CG	2.47	0.49
5:Ca:14:SER:OG	5:Ca:15:LEU:N	2.45	0.49
7:Ce:11:ASP:O	7:Ce:14:ILE:HB	2.12	0.49
8:Cg:42:VAL:HG11	9:Ch:47:VAL:HG11	1.95	0.49
8:Cg:176:ARG:CB	8:Cg:196:PHE:CB	2.91	0.49
9:Ch:18:ALA:C	9:Ch:20:LEU:N	2.67	0.49
9:Ch:57:ILE:HD12	10:CI:57:LEU:HD12	1.81	0.49
10:CI:93:GLU:O	10:CI:95:GLU:N	2.46	0.49
8:Cl:14:VAL:CG2	10:Cn:13:ILE:HD13	2.43	0.49
8:Cl:42:VAL:HG11	9:Cm:47:VAL:HG11	1.95	0.49
8:Cl:176:ARG:CB	8:Cl:196:PHE:CB	2.91	0.49
9:Cm:57:ILE:CB	10:Cn:57:LEU:HD12	2.43	0.49
5:Cp:83:MET:SD	5:Cp:89:MET:HB3	2.53	0.49
8:Cq:14:VAL:CG2	10:Cs:13:ILE:HD13	2.43	0.49
8:Cq:18:ASN:C	10:Cs:20:ARG:NH1	2.67	0.49
8:Cq:181:ALA:HB1	8:Cq:182:PRO:HD2	1.95	0.49
9:Cr:38:ALA:HB3	10:Cs:35:LEU:HD11	1.88	0.49
2:A1:102:VAL:HG13	2:A1:103:GLU:N	2.28	0.48
2:A6:102:VAL:HG13	2:A6:103:GLU:N	2.28	0.48
3:A7:102:ILE:CG1	3:A7:150:LEU:HG	2.42	0.48
4:AB:79:LEU:HA	4:AB:85:LEU:HD22	1.95	0.48
3:AE:150:LEU:CB	3:AE:151:PRO:HD3	2.43	0.48
3:AJ:127:LEU:HD23	3:AJ:127:LEU:N	2.28	0.48
1:AM:129:ASP:OD1	1:AM:129:ASP:N	2.39	0.48
2:AN:147:LYS:HB3	2:AN:147:LYS:HE2	1.49	0.48
3:AT:60:GLU:HB2	3:AT:63:SER:HB3	1.95	0.48
4:Aa:1:LYS:NZ	4:Aa:128:GLU:HA	2.27	0.48
4:Aa:85:LEU:O	4:Aa:86:LYS:C	2.56	0.48
4:Af:79:LEU:HA	4:Af:85:LEU:HD22	1.95	0.48
1:Al:70:HIS:O	1:Al:74:ILE:HG22	2.12	0.48
3:As:15:ILE:C	3:As:17:HIS:H	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ax:60:GLU:HB2	3:Ax:63:SER:HB3	1.95	0.48
3:Ay:115:ILE:O	3:Ay:118:ALA:HB3	2.13	0.48
4:B3:51:VAL:HG22	4:B3:51:VAL:O	2.13	0.48
4:B7:78:THR:HG22	7:C3:72:LEU:CD1	2.42	0.48
4:BA:51:VAL:HG22	4:BA:51:VAL:O	2.13	0.48
6:BD:115:ILE:O	6:BD:118:ALA:HB3	2.13	0.48
7:BG:11:ASP:O	7:BG:14:ILE:HB	2.13	0.48
4:BK:13:LYS:HE3	4:BK:77:SER:O	2.13	0.48
7:BL:11:ASP:O	7:BL:14:ILE:HB	2.13	0.48
6:BN:28:THR:O	6:BN:29:ASP:C	2.56	0.48
4:Be:51:VAL:HG22	4:Be:51:VAL:O	2.13	0.48
4:Be:109:PHE:CE2	4:Be:113:ILE:HD11	2.48	0.48
7:Bk:11:ASP:O	7:Bk:14:ILE:HB	2.13	0.48
6:Br:28:THR:O	6:Br:29:ASP:C	2.56	0.48
4:Bt:35:ARG:CZ	9:Cw:81:LEU:HD11	2.43	0.48
10:C2:9:SER:O	10:C2:13:ILE:HG13	2.13	0.48
5:C4:14:SER:OG	5:C4:15:LEU:N	2.45	0.48
8:C5:51:LYS:HZ2	10:C7:46:LYS:HE3	1.78	0.48
8:CC:14:VAL:CG2	10:CE:13:ILE:HD13	2.43	0.48
9:CD:57:ILE:HD12	10:CE:57:LEU:HD12	1.81	0.48
8:CH:14:VAL:CG2	10:CJ:13:ILE:HD13	2.43	0.48
8:CH:189:GLY:O	8:CH:211:PRO:HG2	2.13	0.48
10:CJ:24:ILE:HG23	10:CJ:25:THR:N	2.28	0.48
5:CL:14:SER:OG	5:CL:15:LEU:N	2.45	0.48
8:CM:44:LYS:HE3	10:CO:46:LYS:HZ2	1.74	0.48
9:CN:57:ILE:CB	10:CO:57:LEU:HD12	2.43	0.48
8:CR:186:GLN:NE2	8:CR:189:GLY:HA3	2.27	0.48
10:CY:63:ASP:CB	10:CY:66:GLU:H	2.24	0.48
10:CY:93:GLU:O	10:CY:95:GLU:N	2.46	0.48
10:Cd:120:ARG:HD2	10:Cd:152:SER:CB	2.43	0.48
8:Cg:14:VAL:CG2	10:Ci:13:ILE:HD13	2.43	0.48
10:Cn:24:ILE:HG23	10:Cn:25:THR:N	2.28	0.48
8:Cq:189:GLY:O	8:Cq:211:PRO:HG2	2.13	0.48
9:Cr:57:ILE:CB	10:Cs:57:LEU:HD12	2.43	0.48
10:Cs:9:SER:O	10:Cs:13:ILE:HG13	2.13	0.48
8:Cv:56:ASN:HD22	8:Cv:198:LEU:HB3	1.77	0.48
8:Cv:181:ALA:HB1	8:Cv:182:PRO:HD2	1.95	0.48
9:Cw:140:PHE:HB2	9:Cw:141:PHE:CA	2.40	0.48
10:Cx:10:HIS:O	10:Cx:13:ILE:HB	2.13	0.48
7:Cy:22:LEU:HD13	7:Cy:23:TRP:CH2	2.47	0.48
5:Cz:10:LEU:HB3	5:Cz:13:GLU:HG3	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A4:1:LYS:NZ	4:A4:128:GLU:HA	2.27	0.48
4:A4:85:LEU:O	4:A4:86:LYS:C	2.56	0.48
4:AG:78:THR:HG22	4:AG:78:THR:O	2.12	0.48
2:AI:18:LYS:HZ3	2:AI:85:ASP:HB2	1.78	0.48
3:AY:127:LEU:HD23	3:AY:127:LEU:N	2.28	0.48
4:Aa:79:LEU:HA	4:Aa:85:LEU:HD22	1.95	0.48
3:Ai:150:LEU:CB	3:Ai:151:PRO:HD3	2.43	0.48
4:B3:92:LEU:CD1	4:B3:141:ILE:HG12	2.43	0.48
6:B6:142:LEU:O	6:B6:146:ILE:HG13	2.13	0.48
4:BA:109:PHE:CE2	4:BA:113:ILE:HD11	2.48	0.48
6:BD:15:ILE:C	6:BD:17:HIS:H	2.22	0.48
7:BG:88:PRO:HG2	7:BG:89:PRO:CD	2.43	0.48
7:BV:129:ASP:OD1	7:BV:129:ASP:N	2.36	0.48
4:BZ:51:VAL:HG22	4:BZ:51:VAL:O	2.13	0.48
4:BZ:92:LEU:CD1	4:BZ:141:ILE:HG12	2.43	0.48
7:Ba:11:ASP:O	7:Ba:14:ILE:HB	2.13	0.48
6:Bc:142:LEU:O	6:Bc:146:ILE:HG13	2.13	0.48
4:Bd:78:THR:HG22	7:CZ:72:LEU:CD1	2.42	0.48
6:Bh:15:ILE:C	6:Bh:17:HIS:H	2.22	0.48
6:Bm:115:ILE:O	6:Bm:118:ALA:HB3	2.13	0.48
7:Bu:88:PRO:HG2	7:Bu:89:PRO:CD	2.43	0.48
6:Bw:115:ILE:O	6:Bw:118:ALA:HB3	2.13	0.48
8:C0:10:PHE:CZ	9:C1:10:LEU:HA	2.49	0.48
10:C2:195:TYR:HD1	10:C2:195:TYR:H	1.60	0.48
9:C6:162:VAL:CG1	9:C6:163:THR:N	2.76	0.48
10:CJ:169:TYR:CE1	10:CJ:174:HIS:HA	2.48	0.48
8:CM:189:GLY:O	8:CM:211:PRO:HG2	2.13	0.48
10:CO:10:HIS:O	10:CO:13:ILE:HB	2.13	0.48
7:CP:72:LEU:O	7:CP:73:ARG:C	2.56	0.48
5:CQ:83:MET:SD	5:CQ:89:MET:HB3	2.53	0.48
8:CR:56:ASN:HD22	8:CR:198:LEU:HB3	1.77	0.48
10:CT:59:ASP:HA	10:CT:60:PRO:HD3	1.35	0.48
7:CU:22:LEU:HD13	7:CU:23:TRP:CH2	2.47	0.48
5:Ca:17:VAL:HG13	5:Ca:135:TRP:CE2	2.47	0.48
9:Cc:18:ALA:C	9:Cc:20:LEU:H	2.22	0.48
10:Cd:173:ASP:O	10:Cd:174:HIS:HB2	2.13	0.48
8:Cl:189:GLY:O	8:Cl:211:PRO:HG2	2.13	0.48
10:Cn:169:TYR:CE1	10:Cn:174:HIS:HA	2.48	0.48
8:Cv:28:LEU:CD1	10:Cx:27:SER:HB3	2.23	0.48
8:Cv:186:GLN:NE2	8:Cv:189:GLY:HA3	2.27	0.48
9:Cw:16:ALA:C	9:Cw:18:ALA:N	2.68	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:88:PRO:HG2	1:A0:89:PRO:HD3	1.96	0.48
3:A2:15:ILE:O	3:A2:17:HIS:N	2.47	0.48
3:A2:127:LEU:HD23	3:A2:127:LEU:N	2.28	0.48
4:A4:79:LEU:HA	4:A4:85:LEU:HD22	1.95	0.48
1:A5:88:PRO:HG2	1:A5:89:PRO:HD3	1.96	0.48
2:AD:102:VAL:HG13	2:AD:103:GLU:N	2.28	0.48
4:AL:85:LEU:O	4:AL:86:LYS:C	2.56	0.48
3:AU:60:GLU:HB2	3:AU:63:SER:HB3	1.96	0.48
1:AW:88:PRO:HG2	1:AW:89:PRO:HD3	1.96	0.48
3:AY:15:ILE:O	3:AY:17:HIS:N	2.47	0.48
1:Ab:88:PRO:HG2	1:Ab:89:PRO:HD3	1.96	0.48
3:Ai:60:GLU:HB2	3:Ai:63:SER:HB3	1.95	0.48
2:Am:18:LYS:HZ3	2:Am:85:ASP:HB2	1.78	0.48
3:An:127:LEU:HD23	3:An:127:LEU:N	2.28	0.48
3:Ay:60:GLU:HB2	3:Ay:63:SER:HB3	1.96	0.48
7:B4:11:ASP:O	7:B4:14:ILE:HB	2.13	0.48
6:BI:15:ILE:C	6:BI:17:HIS:H	2.21	0.48
4:BK:35:ARG:CZ	9:CN:81:LEU:HD11	2.43	0.48
7:BQ:88:PRO:HG2	7:BQ:89:PRO:CD	2.43	0.48
7:BV:87:ASP:C	7:BV:89:PRO:HD2	2.38	0.48
6:BX:142:LEU:O	6:BX:146:ILE:HG13	2.13	0.48
6:Bc:150:LEU:HA	6:Bc:150:LEU:HD23	1.08	0.48
7:Bk:88:PRO:HG2	7:Bk:89:PRO:CD	2.43	0.48
4:Bo:35:ARG:CZ	9:Cr:81:LEU:HD11	2.43	0.48
7:Bz:129:ASP:OD1	7:Bz:129:ASP:N	2.36	0.48
8:C0:155:LEU:CD1	8:C0:161:THR:HB	2.36	0.48
10:C2:11:ASP:HA	10:C2:14:ILE:HD13	1.96	0.48
10:C2:63:ASP:CB	10:C2:66:GLU:H	2.24	0.48
10:C7:10:HIS:O	10:C7:13:ILE:HB	2.13	0.48
10:C7:11:ASP:HA	10:C7:14:ILE:HD13	1.96	0.48
10:C7:24:ILE:HG23	10:C7:25:THR:N	2.28	0.48
10:C7:120:ARG:HD2	10:C7:152:SER:CB	2.43	0.48
10:C7:173:ASP:O	10:C7:174:HIS:HB2	2.13	0.48
9:CD:57:ILE:CB	10:CE:57:LEU:HD12	2.43	0.48
7:CF:48:PRO:O	7:CF:50:VAL:N	2.46	0.48
5:CG:111:PHE:HB3	5:CG:143:ILE:HG23	1.95	0.48
8:CH:181:ALA:HB1	8:CH:182:PRO:HD2	1.95	0.48
8:CM:10:PHE:CD2	10:CO:10:HIS:CA	2.95	0.48
8:CM:18:ASN:C	10:CO:20:ARG:NH1	2.67	0.48
10:CO:93:GLU:O	10:CO:95:GLU:N	2.46	0.48
10:CO:173:ASP:O	10:CO:174:HIS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CQ:14:SER:OG	5:CQ:15:LEU:N	2.45	0.48
9:CS:31:LEU:HD13	10:CT:28:ILE:HA	1.90	0.48
7:CU:37:ARG:HH22	7:CU:63:GLU:HB3	1.78	0.48
5:CV:10:LEU:HB3	5:CV:13:GLU:HG3	1.93	0.48
8:CW:10:PHE:CZ	9:CX:10:LEU:HA	2.49	0.48
10:CY:11:ASP:HA	10:CY:14:ILE:HD13	1.96	0.48
7:CZ:22:LEU:HD13	7:CZ:23:TRP:CH2	2.47	0.48
9:Cc:162:VAL:CG1	9:Cc:163:THR:N	2.76	0.48
10:Cd:10:HIS:O	10:Cd:13:ILE:HB	2.13	0.48
10:Cd:11:ASP:HA	10:Cd:14:ILE:HD13	1.96	0.48
10:Ci:24:ILE:HG23	10:Ci:25:THR:N	2.28	0.48
7:Cj:37:ARG:HH22	7:Cj:63:GLU:HB3	1.78	0.48
5:Ck:111:PHE:HB3	5:Ck:143:ILE:HG23	1.95	0.48
8:Cl:183:LEU:CD1	8:Cl:184:LYS:H	2.26	0.48
9:Cm:18:ALA:C	9:Cm:20:LEU:H	2.22	0.48
5:Cp:14:SER:OG	5:Cp:15:LEU:N	2.45	0.48
5:Cp:111:PHE:HB3	5:Cp:143:ILE:HG23	1.95	0.48
9:Cr:31:LEU:HD13	10:Cs:28:ILE:HA	1.90	0.48
10:Cs:10:HIS:O	10:Cs:13:ILE:HB	2.13	0.48
10:Cs:93:GLU:O	10:Cs:95:GLU:N	2.46	0.48
7:Ct:72:LEU:O	7:Ct:73:ARG:C	2.56	0.48
5:Cu:83:MET:SD	5:Cu:89:MET:HB3	2.53	0.48
3:A3:60:GLU:HB2	3:A3:63:SER:HB3	1.96	0.48
3:AA:60:GLU:HB2	3:AA:63:SER:HB3	1.96	0.48
3:AE:60:GLU:HB2	3:AE:63:SER:HB3	1.95	0.48
1:AM:9:GLU:HA	1:AM:12:HIS:CE1	2.48	0.48
2:Ah:102:VAL:HG13	2:Ah:103:GLU:N	2.28	0.48
4:Ap:85:LEU:O	4:Ap:86:LYS:C	2.56	0.48
2:Ar:147:LYS:HE2	2:Ar:147:LYS:HB3	1.49	0.48
3:As:23:TRP:CD1	3:As:78:LYS:HZ2	2.30	0.48
6:B1:142:LEU:O	6:B1:146:ILE:HG13	2.13	0.48
6:B1:150:LEU:HB3	6:B1:151:PRO:HD3	1.96	0.48
5:BH:111:PHE:HB3	5:BH:143:ILE:HG23	1.96	0.48
6:BI:115:ILE:O	6:BI:118:ALA:HB3	2.13	0.48
7:BQ:87:ASP:C	7:BQ:89:PRO:HD2	2.38	0.48
4:BU:92:LEU:CD1	4:BU:141:ILE:HG12	2.43	0.48
6:BX:150:LEU:HB3	6:BX:151:PRO:HD3	1.96	0.48
5:Bl:111:PHE:HB3	5:Bl:143:ILE:HG23	1.96	0.48
4:Bt:120:GLN:HA	9:Cw:65:ARG:HH22	1.78	0.48
7:Bu:87:ASP:C	7:Bu:89:PRO:HD2	2.38	0.48
7:Bz:32:LYS:HG2	7:Bz:75:LEU:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C2:10:HIS:O	10:C2:13:ILE:HB	2.13	0.48
5:C4:17:VAL:HG13	5:C4:135:TRP:CE2	2.47	0.48
9:C6:18:ALA:C	9:C6:20:LEU:H	2.22	0.48
8:CC:181:ALA:HB1	8:CC:182:PRO:HD2	1.95	0.48
9:CD:50:ILE:HD12	10:CE:50:LEU:CD2	2.43	0.48
10:CE:10:HIS:O	10:CE:13:ILE:HB	2.13	0.48
10:CE:24:ILE:HG23	10:CE:25:THR:N	2.28	0.48
10:CE:169:TYR:CE1	10:CE:174:HIS:HA	2.49	0.48
7:CF:37:ARG:HH22	7:CF:63:GLU:HB3	1.78	0.48
8:CH:183:LEU:CD1	8:CH:184:LYS:H	2.26	0.48
9:CI:18:ALA:C	9:CI:20:LEU:H	2.22	0.48
9:CI:82:VAL:HA	9:CI:88:ASP:HB2	1.96	0.48
10:CJ:10:HIS:O	10:CJ:13:ILE:HB	2.13	0.48
7:CK:9:GLU:HA	7:CK:12:HIS:CE1	2.49	0.48
5:CL:111:PHE:HB3	5:CL:143:ILE:HG23	1.95	0.48
9:CN:31:LEU:HD13	10:CO:28:ILE:HA	1.90	0.48
7:CP:9:GLU:HA	7:CP:12:HIS:CE1	2.49	0.48
8:CR:10:PHE:CZ	9:CS:10:LEU:HA	2.49	0.48
9:CS:138:ARG:HD3	9:CS:138:ARG:HA	1.73	0.48
10:CT:203:HIS:CD2	10:CT:215:GLU:HG3	2.49	0.48
7:CU:48:PRO:O	7:CU:50:VAL:N	2.46	0.48
8:CW:115:ALA:HB2	8:CW:128:ALA:HB2	1.94	0.48
9:Cc:137:ARG:CB	9:Cc:141:PHE:HB3	2.34	0.48
10:Cd:24:ILE:HG23	10:Cd:25:THR:N	2.28	0.48
10:Cd:114:PHE:O	10:Cd:214:ALA:HA	2.12	0.48
7:Ce:9:GLU:HA	7:Ce:12:HIS:CE1	2.49	0.48
7:Ce:48:PRO:O	7:Ce:50:VAL:N	2.46	0.48
8:Cg:181:ALA:HB1	8:Cg:182:PRO:HD2	1.95	0.48
9:Ch:57:ILE:CB	10:Ci:57:LEU:HD12	2.43	0.48
7:Cj:48:PRO:O	7:Cj:50:VAL:N	2.46	0.48
8:Cl:181:ALA:HB1	8:Cl:182:PRO:HD2	1.95	0.48
9:Cm:82:VAL:HA	9:Cm:88:ASP:HB2	1.96	0.48
7:Co:9:GLU:HA	7:Co:12:HIS:CE1	2.49	0.48
8:Cq:10:PHE:CD2	10:Cs:10:HIS:CA	2.95	0.48
8:Cq:186:GLN:NE2	8:Cq:189:GLY:HA3	2.27	0.48
9:Cr:57:ILE:HD13	10:Cs:57:LEU:HB2	1.94	0.48
7:Ct:9:GLU:HA	7:Ct:12:HIS:CE1	2.49	0.48
5:Cu:14:SER:OG	5:Cu:15:LEU:N	2.45	0.48
8:Cv:10:PHE:CZ	9:Cw:10:LEU:HA	2.49	0.48
8:Cv:213:SER:HG	8:Cv:215:PHE:HB2	1.78	0.48
7:Cy:37:ARG:HH22	7:Cy:63:GLU:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cy:48:PRO:O	7:Cy:50:VAL:N	2.46	0.48
1:A0:150:ARG:HH11	1:A0:150:ARG:HG3	1.78	0.48
3:AF:60:GLU:O	3:AF:63:SER:HB3	2.14	0.48
4:AG:28:ALA:O	4:AG:29:PHE:C	2.56	0.48
1:AM:37:ARG:HH22	1:AM:63:GLU:HB3	1.79	0.48
3:AO:23:TRP:CD1	3:AO:78:LYS:HZ2	2.30	0.48
3:AO:118:ALA:O	3:AO:122:VAL:HG23	2.14	0.48
1:AR:150:ARG:HH11	1:AR:150:ARG:HG3	1.78	0.48
3:AZ:60:GLU:HB2	3:AZ:63:SER:HB3	1.96	0.48
3:Ae:15:ILE:C	3:Ae:17:HIS:N	2.68	0.48
3:Ae:60:GLU:HB2	3:Ae:63:SER:HB3	1.96	0.48
1:Aq:37:ARG:HH22	1:Aq:63:GLU:HB3	1.79	0.48
3:As:118:ALA:O	3:As:122:VAL:HG23	2.14	0.48
1:Av:150:ARG:HH11	1:Av:150:ARG:HG3	1.78	0.48
6:B6:150:LEU:HB3	6:B6:151:PRO:HD3	1.96	0.48
7:BB:88:PRO:HG2	7:BB:89:PRO:CD	2.43	0.48
6:BI:142:LEU:O	6:BI:146:ILE:HG13	2.13	0.48
4:BK:109:PHE:CE2	4:BK:113:ILE:HD11	2.48	0.48
7:BL:88:PRO:HG2	7:BL:89:PRO:CD	2.43	0.48
5:BM:101:HIS:CD2	5:BM:111:PHE:HZ	2.32	0.48
4:BP:120:GLN:HA	9:CS:65:ARG:HH22	1.78	0.48
7:BV:32:LYS:HG2	7:BV:75:LEU:HD12	1.96	0.48
6:Bc:127:LEU:HD23	6:Bc:127:LEU:N	2.28	0.48
6:Bm:15:ILE:C	6:Bm:17:HIS:H	2.21	0.48
4:Bo:51:VAL:HG22	4:Bo:51:VAL:O	2.13	0.48
7:Bp:88:PRO:HG2	7:Bp:89:PRO:CD	2.43	0.48
5:Bq:101:HIS:CD2	5:Bq:111:PHE:HZ	2.32	0.48
4:By:92:LEU:CD1	4:By:141:ILE:HG12	2.43	0.48
7:Bz:87:ASP:C	7:Bz:89:PRO:HD2	2.38	0.48
8:C0:14:VAL:HG21	10:C2:13:ILE:HD13	1.94	0.48
8:C0:115:ALA:HB2	8:C0:128:ALA:HB2	1.94	0.48
10:C2:24:ILE:HG23	10:C2:25:THR:N	2.28	0.48
7:C3:22:LEU:HD13	7:C3:23:TRP:CH2	2.47	0.48
9:C6:57:ILE:HD13	10:C7:57:LEU:HB2	1.94	0.48
10:C7:114:PHE:O	10:C7:214:ALA:HA	2.12	0.48
7:CA:9:GLU:HA	7:CA:12:HIS:CE1	2.49	0.48
8:CC:183:LEU:CD1	8:CC:184:LYS:H	2.26	0.48
7:CF:9:GLU:HA	7:CF:12:HIS:CE1	2.49	0.48
7:CK:48:PRO:O	7:CK:50:VAL:N	2.46	0.48
8:CM:10:PHE:CZ	9:CN:10:LEU:HA	2.49	0.48
8:CM:42:VAL:HG11	9:CN:47:VAL:HG11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CM:155:LEU:CD1	8:CM:161:THR:HB	2.36	0.48
8:CM:186:GLN:NE2	8:CM:189:GLY:HA3	2.27	0.48
8:CW:35:TYR:HE1	10:CY:34:LEU:CB	2.04	0.48
10:CY:10:HIS:O	10:CY:13:ILE:HB	2.13	0.48
8:Cb:42:VAL:HG11	9:Cc:47:VAL:HG11	1.95	0.48
8:Cb:189:GLY:O	8:Cb:211:PRO:HG2	2.13	0.48
8:Cg:115:ALA:HB2	8:Cg:128:ALA:HB2	1.94	0.48
8:Cg:183:LEU:CD1	8:Cg:184:LYS:H	2.26	0.48
9:Ch:50:ILE:HD12	10:Ci:50:LEU:CD2	2.43	0.48
9:Ch:140:PHE:CD2	9:Ch:141:PHE:CD2	3.00	0.48
10:Ci:10:HIS:O	10:Ci:13:ILE:HB	2.13	0.48
10:Ci:169:TYR:CE1	10:Ci:174:HIS:HA	2.49	0.48
7:Cj:9:GLU:HA	7:Cj:12:HIS:CE1	2.49	0.48
9:Cm:46:PHE:HZ	10:Cn:47:ALA:C	2.21	0.48
9:Cm:140:PHE:CD2	9:Cm:141:PHE:CD2	3.00	0.48
10:Cn:10:HIS:O	10:Cn:13:ILE:HB	2.13	0.48
7:Co:48:PRO:O	7:Co:50:VAL:N	2.46	0.48
8:Cq:10:PHE:CZ	9:Cr:10:LEU:HA	2.49	0.48
10:Cs:24:ILE:HG23	10:Cs:25:THR:N	2.28	0.48
10:Cs:173:ASP:O	10:Cs:174:HIS:HB2	2.13	0.48
7:Ct:37:ARG:HH22	7:Ct:63:GLU:HB3	1.78	0.48
7:Ct:48:PRO:O	7:Ct:50:VAL:N	2.46	0.48
8:Cv:10:PHE:CD2	10:Cx:10:HIS:CA	2.95	0.48
8:Cv:170:PHE:C	8:Cv:170:PHE:CD1	2.89	0.48
9:Cw:31:LEU:HD13	10:Cx:28:ILE:HA	1.90	0.48
10:Cx:203:HIS:CD2	10:Cx:215:GLU:HG3	2.49	0.48
3:A2:118:ALA:O	3:A2:122:VAL:HG23	2.14	0.48
3:AA:15:ILE:C	3:AA:17:HIS:N	2.68	0.48
3:AA:150:LEU:HD23	3:AA:150:LEU:N	2.24	0.48
1:AH:150:ARG:HG3	1:AH:150:ARG:HH11	1.78	0.48
3:AJ:118:ALA:O	3:AJ:122:VAL:HG23	2.14	0.48
3:AK:60:GLU:O	3:AK:63:SER:HB3	2.14	0.48
1:AM:11:ASP:O	1:AM:14:ILE:HB	2.13	0.48
2:AN:18:LYS:HZ3	2:AN:85:ASP:HB2	1.79	0.48
2:AS:102:VAL:HG13	2:AS:103:GLU:N	2.28	0.48
1:AW:150:ARG:HG3	1:AW:150:ARG:HH11	1.78	0.48
3:AY:118:ALA:O	3:AY:122:VAL:HG23	2.14	0.48
1:Ab:150:ARG:HG3	1:Ab:150:ARG:HH11	1.78	0.48
3:Aj:60:GLU:O	3:Aj:63:SER:HB3	2.14	0.48
4:Ak:28:ALA:O	4:Ak:29:PHE:C	2.56	0.48
3:An:118:ALA:O	3:An:122:VAL:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ao:60:GLU:O	3:Ao:63:SER:HB3	2.14	0.48
1:Aq:9:GLU:HA	1:Aq:12:HIS:CE1	2.48	0.48
2:Aw:102:VAL:HG13	2:Aw:103:GLU:N	2.28	0.48
3:Ax:118:ALA:O	3:Ax:122:VAL:HG23	2.14	0.48
3:Ay:18:ILE:HG21	3:Ay:130:PHE:HD1	1.77	0.48
4:Az:78:THR:HG22	4:Az:78:THR:O	2.12	0.48
6:B6:127:LEU:HD23	6:B6:127:LEU:N	2.28	0.48
7:BB:11:ASP:O	7:BB:14:ILE:HB	2.13	0.48
4:BF:2:LYS:HD3	4:BF:8:GLU:OE1	2.13	0.48
4:BF:92:LEU:CD1	4:BF:141:ILE:HG12	2.43	0.48
4:BK:51:VAL:O	4:BK:51:VAL:HG22	2.13	0.48
4:BK:120:GLN:HG2	9:CN:80:LEU:CD1	2.31	0.48
4:BU:2:LYS:HD3	4:BU:8:GLU:OE1	2.13	0.48
7:BV:37:ARG:HH22	7:BV:63:GLU:HB3	1.79	0.48
4:BZ:35:ARG:CZ	9:Cc:81:LEU:HD11	2.43	0.48
6:Bc:150:LEU:HB3	6:Bc:151:PRO:HD3	1.96	0.48
4:Be:2:LYS:HD3	4:Be:8:GLU:OE1	2.13	0.48
4:Be:120:GLN:HA	9:Ch:65:ARG:HH22	1.78	0.48
7:Bf:11:ASP:O	7:Bf:14:ILE:HB	2.13	0.48
7:Bf:88:PRO:HG2	7:Bf:89:PRO:CD	2.43	0.48
6:Bm:27:PHE:CD2	7:Cj:27:GLU:HG3	2.40	0.48
6:Bm:142:LEU:O	6:Bm:146:ILE:HG13	2.13	0.48
4:By:2:LYS:HD3	4:By:8:GLU:OE1	2.13	0.48
9:C1:43:PRO:CD	10:C2:38:ARG:HG2	2.44	0.48
10:C2:140:PRO:HA	10:C2:171:PHE:CD2	2.49	0.48
8:C5:42:VAL:HG11	9:C6:47:VAL:HG11	1.95	0.48
8:C5:189:GLY:O	8:C5:211:PRO:HG2	2.13	0.48
9:C6:18:ALA:C	9:C6:20:LEU:N	2.67	0.48
9:C6:97:PRO:HA	9:C6:100:CYS:SG	2.54	0.48
7:CA:37:ARG:HH22	7:CA:63:GLU:HB3	1.78	0.48
7:CA:48:PRO:O	7:CA:50:VAL:N	2.46	0.48
8:CC:108:GLY:HA2	8:CC:132:ILE:O	2.14	0.48
8:CH:117:TRP:HA	8:CH:218:ALA:CB	2.44	0.48
9:CI:46:PHE:HZ	10:CJ:47:ALA:C	2.21	0.48
9:CI:123:ARG:HE	9:CI:123:ARG:HB2	1.50	0.48
9:CN:57:ILE:HD13	10:CO:57:LEU:HB2	1.94	0.48
9:CN:215:LEU:O	9:CN:215:LEU:HD23	2.14	0.48
10:CO:24:ILE:HG23	10:CO:25:THR:N	2.28	0.48
10:CO:78:SER:HB3	10:CO:81:PHE:CG	2.47	0.48
10:CO:120:ARG:HD2	10:CO:152:SER:CB	2.43	0.48
7:CP:37:ARG:HH22	7:CP:63:GLU:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CP:48:PRO:O	7:CP:50:VAL:N	2.46	0.48
8:CR:10:PHE:CD2	10:CT:10:HIS:CA	2.95	0.48
8:CR:176:ARG:CB	8:CR:196:PHE:CB	2.91	0.48
10:CT:120:ARG:HD2	10:CT:152:SER:CB	2.42	0.48
9:CX:43:PRO:CD	10:CY:38:ARG:HG2	2.44	0.48
10:CY:24:ILE:HG23	10:CY:25:THR:N	2.28	0.48
10:CY:140:PRO:HA	10:CY:171:PHE:CD2	2.49	0.48
9:Cc:18:ALA:C	9:Cc:20:LEU:N	2.67	0.48
9:Cc:97:PRO:HA	9:Cc:100:CYS:SG	2.54	0.48
7:Ce:37:ARG:HH22	7:Ce:63:GLU:HB3	1.78	0.48
8:Cg:117:TRP:HA	8:Cg:218:ALA:CB	2.43	0.48
9:Ch:215:LEU:O	9:Ch:215:LEU:HD23	2.14	0.48
5:Cp:107:LYS:HA	5:Cp:108:PRO:HD2	1.49	0.48
8:Cq:42:VAL:HG11	9:Cr:47:VAL:HG11	1.95	0.48
8:Cq:183:LEU:CD1	8:Cq:184:LYS:H	2.26	0.48
9:Cr:215:LEU:O	9:Cr:215:LEU:HD23	2.14	0.48
10:Cs:169:TYR:CE1	10:Cs:174:HIS:HA	2.48	0.48
8:Cv:14:VAL:HG11	10:Cx:13:ILE:CG2	2.11	0.48
8:Cv:44:LYS:HE3	10:Cx:46:LYS:HZ2	1.72	0.48
8:Cv:176:ARG:CB	8:Cv:196:PHE:CB	2.91	0.48
1:A0:9:GLU:HA	1:A0:12:HIS:CE1	2.48	0.48
3:AE:23:TRP:HH2	3:AE:75:ASN:CA	2.27	0.48
3:AP:60:GLU:O	3:AP:63:SER:HB3	2.14	0.48
1:AR:11:ASP:O	1:AR:14:ILE:HB	2.13	0.48
3:AT:118:ALA:O	3:AT:122:VAL:HG23	2.14	0.48
1:AW:9:GLU:HA	1:AW:12:HIS:CE1	2.48	0.48
3:Ad:150:LEU:CB	3:Ad:151:PRO:HD3	2.43	0.48
1:Ag:11:ASP:O	1:Ag:14:ILE:HB	2.13	0.48
3:Ai:23:TRP:HH2	3:Ai:75:ASN:CA	2.27	0.48
4:Ak:79:LEU:HA	4:Ak:85:LEU:HD22	1.95	0.48
3:An:60:GLU:HB2	3:An:63:SER:HB3	1.95	0.48
1:Aq:11:ASP:O	1:Aq:14:ILE:HB	2.13	0.48
4:B3:35:ARG:CZ	9:C6:81:LEU:HD11	2.43	0.48
4:BA:2:LYS:HD3	4:BA:8:GLU:OE1	2.13	0.48
4:BA:120:GLN:HA	9:CD:65:ARG:HH22	1.78	0.48
7:BQ:32:LYS:HG2	7:BQ:75:LEU:HD12	1.96	0.48
5:BR:11:VAL:H	5:BR:11:VAL:HG23	1.19	0.48
4:Bj:92:LEU:CD1	4:Bj:141:ILE:HG12	2.43	0.48
4:Bo:109:PHE:CE2	4:Bo:113:ILE:HD11	2.48	0.48
6:Br:132:VAL:HG13	6:Br:133:ASP:N	2.28	0.48
4:Bt:92:LEU:CD1	4:Bt:141:ILE:HG12	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Bz:37:ARG:HH22	7:Bz:63:GLU:HB3	1.79	0.48
8:C0:35:TYR:HE1	10:C2:34:LEU:CB	2.04	0.48
10:C2:203:HIS:CD2	10:C2:215:GLU:HG3	2.49	0.48
7:CA:72:LEU:O	7:CA:73:ARG:C	2.56	0.48
8:CC:42:VAL:CG1	9:CD:44:GLU:HA	2.44	0.48
8:CC:115:ALA:HB2	8:CC:128:ALA:HB2	1.94	0.48
8:CC:117:TRP:HA	8:CC:218:ALA:CB	2.43	0.48
9:CD:82:VAL:HA	9:CD:88:ASP:HB2	1.96	0.48
9:CD:140:PHE:CD2	9:CD:141:PHE:CD2	3.00	0.48
9:CD:215:LEU:O	9:CD:215:LEU:HD23	2.14	0.48
8:CH:28:LEU:CG	10:CJ:27:SER:HB3	2.44	0.48
9:CI:140:PHE:CD2	9:CI:141:PHE:CD2	3.00	0.48
10:CJ:93:GLU:O	10:CJ:95:GLU:N	2.46	0.48
7:CK:37:ARG:HH22	7:CK:63:GLU:HB3	1.78	0.48
8:CM:183:LEU:CD1	8:CM:184:LYS:H	2.26	0.48
10:CO:169:TYR:CE1	10:CO:174:HIS:HA	2.48	0.48
8:CR:14:VAL:CG2	10:CT:13:ILE:HD13	2.43	0.48
8:CR:21:ILE:HG23	10:CT:20:ARG:HG2	1.37	0.48
8:CR:42:VAL:CG1	9:CS:44:GLU:HA	2.44	0.48
8:CR:170:PHE:CD1	8:CR:170:PHE:C	2.89	0.48
9:CS:46:PHE:HZ	10:CT:47:ALA:C	2.21	0.48
9:CS:57:ILE:CB	10:CT:57:LEU:HD12	2.43	0.48
8:CW:14:VAL:HG21	10:CY:13:ILE:HD13	1.94	0.48
8:CW:14:VAL:CG2	10:CY:13:ILE:HD13	2.43	0.48
9:CX:97:PRO:HA	9:CX:100:CYS:SG	2.54	0.48
9:Cc:43:PRO:CD	10:Cd:38:ARG:HG2	2.44	0.48
9:Cc:57:ILE:HD13	10:Cd:57:LEU:HB2	1.94	0.48
7:Ce:72:LEU:O	7:Ce:73:ARG:C	2.56	0.48
8:Cg:108:GLY:HA2	8:Cg:132:ILE:O	2.14	0.48
8:Cl:28:LEU:CD1	10:Cn:27:SER:HB3	2.23	0.48
8:Cl:28:LEU:CG	10:Cn:27:SER:HB3	2.44	0.48
8:Cl:117:TRP:HA	8:Cl:218:ALA:CB	2.44	0.48
10:Cn:120:ARG:HD2	10:Cn:152:SER:CB	2.43	0.48
7:Co:37:ARG:HH22	7:Co:63:GLU:HB3	1.78	0.48
10:Cs:78:SER:HB3	10:Cs:81:PHE:CG	2.47	0.48
10:Cs:120:ARG:HD2	10:Cs:152:SER:CB	2.43	0.48
8:Cv:14:VAL:CG2	10:Cx:13:ILE:HD13	2.43	0.48
8:Cv:42:VAL:CG1	9:Cw:44:GLU:HA	2.44	0.48
8:Cv:183:LEU:CD1	8:Cv:184:LYS:H	2.26	0.48
9:Cw:57:ILE:CB	10:Cx:57:LEU:HD12	2.43	0.48
10:Cx:120:ARG:HD2	10:Cx:152:SER:CB	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:83:MET:HG2	2:A1:93:GLN:CB	2.44	0.48
3:A2:53:PHE:HB2	3:A2:58:ILE:CG2	2.44	0.48
3:A3:18:ILE:HG21	3:A3:130:PHE:HD1	1.77	0.48
1:A5:150:ARG:HH11	1:A5:150:ARG:HG3	1.78	0.48
3:AA:60:GLU:O	3:AA:63:SER:HB3	2.14	0.48
1:AC:11:ASP:O	1:AC:14:ILE:HB	2.13	0.48
1:AR:88:PRO:HG2	1:AR:89:PRO:HD3	1.96	0.48
4:AV:78:THR:HG22	4:AV:78:THR:O	2.12	0.48
2:AX:83:MET:HG2	2:AX:93:GLN:CB	2.44	0.48
3:AY:53:PHE:HB2	3:AY:58:ILE:CG2	2.44	0.48
3:Ae:96:HIS:O	3:Ae:100:GLN:HG3	2.14	0.48
1:Al:150:ARG:HH11	1:Al:150:ARG:HG3	1.78	0.48
3:An:23:TRP:HH2	3:An:75:ASN:CA	2.27	0.48
3:At:60:GLU:O	3:At:63:SER:HB3	2.14	0.48
6:BN:132:VAL:HG13	6:BN:133:ASP:N	2.28	0.48
4:BP:92:LEU:CD1	4:BP:141:ILE:HG12	2.43	0.48
7:BQ:37:ARG:HH22	7:BQ:63:GLU:HB3	1.79	0.48
6:Bh:142:LEU:O	6:Bh:146:ILE:HG13	2.13	0.48
4:Bj:2:LYS:HD3	4:Bj:8:GLU:OE1	2.13	0.48
7:Bu:32:LYS:HG2	7:Bu:75:LEU:HD12	1.96	0.48
6:Bw:28:THR:O	6:Bw:29:ASP:C	2.56	0.48
7:Bz:88:PRO:HG2	7:Bz:89:PRO:CD	2.43	0.48
8:C0:14:VAL:CG2	10:C2:13:ILE:HD13	2.43	0.48
8:C0:108:GLY:HA2	8:C0:132:ILE:O	2.14	0.48
9:C1:97:PRO:HA	9:C1:100:CYS:SG	2.54	0.48
9:C6:38:ALA:HB3	10:C7:35:LEU:HD11	1.88	0.48
9:C6:43:PRO:CD	10:C7:38:ARG:HG2	2.44	0.48
9:C6:215:LEU:O	9:C6:215:LEU:HD23	2.14	0.48
8:CC:10:PHE:CZ	9:CD:10:LEU:HA	2.49	0.48
9:CD:97:PRO:HA	9:CD:100:CYS:SG	2.54	0.48
10:CE:11:ASP:HA	10:CE:14:ILE:HD13	1.96	0.48
8:CH:10:PHE:CZ	9:CI:10:LEU:HA	2.49	0.48
8:CH:42:VAL:CG1	9:CI:44:GLU:HA	2.44	0.48
8:CH:108:GLY:HA2	8:CH:132:ILE:O	2.14	0.48
5:CL:107:LYS:HA	5:CL:108:PRO:HD2	1.49	0.48
8:CM:156:ASP:HB2	8:CM:159:ASP:HB2	1.95	0.48
8:CR:44:LYS:HE3	10:CT:46:LYS:HZ2	1.72	0.48
10:CT:93:GLU:O	10:CT:95:GLU:N	2.46	0.48
5:CV:14:SER:OG	5:CV:15:LEU:N	2.45	0.48
10:CY:203:HIS:CD2	10:CY:215:GLU:HG3	2.49	0.48
8:Cb:183:LEU:CD1	8:Cb:184:LYS:H	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:10:PHE:CZ	9:Ch:10:LEU:HA	2.49	0.48
8:Cg:42:VAL:CG1	9:Ch:44:GLU:HA	2.44	0.48
9:Ch:46:PHE:HZ	10:Ci:47:ALA:C	2.21	0.48
9:Ch:82:VAL:HA	9:Ch:88:ASP:HB2	1.96	0.48
8:Cl:10:PHE:CZ	9:Cm:10:LEU:HA	2.49	0.48
9:Cm:96:ASP:HA	9:Cm:97:PRO:HD3	1.49	0.48
10:Cn:93:GLU:O	10:Cn:95:GLU:N	2.46	0.48
8:Cq:156:ASP:HB2	8:Cq:159:ASP:HB2	1.95	0.48
8:Cv:21:ILE:HG23	10:Cx:20:ARG:HG2	1.37	0.48
8:Cv:115:ALA:HB2	8:Cv:128:ALA:HB2	1.94	0.48
10:Cx:11:ASP:HA	10:Cx:14:ILE:HD13	1.96	0.48
10:Cx:93:GLU:O	10:Cx:95:GLU:N	2.46	0.48
1:A0:37:ARG:HH22	1:A0:63:GLU:HB3	1.79	0.48
3:A2:102:ILE:CG1	3:A2:150:LEU:HG	2.42	0.48
4:A4:123:ARG:HE	8:C5:214:LEU:HD22	1.79	0.48
1:A5:11:ASP:O	1:A5:14:ILE:HB	2.13	0.48
3:A7:23:TRP:CD1	3:A7:78:LYS:HZ2	2.31	0.48
3:A7:53:PHE:HB2	3:A7:58:ILE:CG2	2.44	0.48
3:A7:150:LEU:CB	3:A7:151:PRO:HD3	2.43	0.48
3:AA:96:HIS:O	3:AA:100:GLN:HG3	2.14	0.48
1:AC:88:PRO:HG2	1:AC:89:PRO:HD3	1.96	0.48
4:AG:79:LEU:HA	4:AG:85:LEU:HD22	1.95	0.48
3:AJ:23:TRP:HH2	3:AJ:75:ASN:CA	2.27	0.48
3:AJ:60:GLU:HB2	3:AJ:63:SER:HB3	1.95	0.48
3:AJ:144:ALA:O	3:AJ:148:LYS:HG2	2.14	0.48
3:AO:60:GLU:HB2	3:AO:63:SER:HB3	1.95	0.48
3:AO:102:ILE:CA	3:AO:150:LEU:HG	2.38	0.48
3:AU:18:ILE:HG21	3:AU:130:PHE:HD1	1.77	0.48
3:AY:102:ILE:CA	3:AY:150:LEU:HG	2.39	0.48
4:Aa:123:ARG:HE	8:Cb:214:LEU:HD22	1.79	0.48
3:Ad:53:PHE:HB2	3:Ad:58:ILE:CG2	2.44	0.48
3:Ae:60:GLU:O	3:Ae:63:SER:HB3	2.14	0.48
3:Ae:150:LEU:HD23	3:Ae:150:LEU:N	2.24	0.48
3:An:144:ALA:O	3:An:148:LYS:HG2	2.14	0.48
4:Au:79:LEU:HA	4:Au:85:LEU:HD22	1.95	0.48
1:Av:11:ASP:O	1:Av:14:ILE:HB	2.13	0.48
1:Av:88:PRO:HG2	1:Av:89:PRO:HD3	1.96	0.48
6:BD:142:LEU:O	6:BD:146:ILE:HG13	2.13	0.48
4:BF:35:ARG:CZ	9:CI:81:LEU:HD11	2.43	0.48
7:BG:32:LYS:HG2	7:BG:75:LEU:HD12	1.96	0.48
6:BI:60:GLU:HB2	6:BI:63:SER:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BL:70:HIS:O	7:BL:74:ILE:HG22	2.14	0.48
6:BN:142:LEU:O	6:BN:146:ILE:HG13	2.13	0.48
4:BP:51:VAL:HG22	4:BP:51:VAL:O	2.13	0.48
6:BS:28:THR:O	6:BS:29:ASP:C	2.56	0.48
7:BV:70:HIS:O	7:BV:74:ILE:HG22	2.14	0.48
7:BV:88:PRO:HG2	7:BV:89:PRO:CD	2.43	0.48
4:BZ:120:GLN:HA	9:Cc:65:ARG:HH22	1.78	0.48
7:Bp:70:HIS:O	7:Bp:74:ILE:HG22	2.14	0.48
7:Bu:37:ARG:HH22	7:Bu:63:GLU:HB3	1.79	0.48
8:C0:21:ILE:H	10:C2:20:ARG:NH1	2.12	0.48
8:C0:28:LEU:CG	10:C2:27:SER:HB3	2.44	0.48
8:C0:117:TRP:HA	8:C0:218:ALA:CB	2.44	0.48
9:C1:155:LEU:H	9:C1:155:LEU:HD23	1.79	0.48
7:C3:72:LEU:O	7:C3:73:ARG:C	2.56	0.48
7:C3:129:ASP:OD1	7:C3:129:ASP:N	2.37	0.48
10:CJ:120:ARG:HD2	10:CJ:152:SER:CB	2.43	0.48
9:CN:92:ALA:HB3	9:CN:95:GLU:CG	2.20	0.48
8:CR:42:VAL:HG11	9:CS:47:VAL:HG11	1.95	0.48
8:CR:115:ALA:HB2	8:CR:128:ALA:HB2	1.94	0.48
8:CR:156:ASP:HB2	8:CR:159:ASP:HB2	1.95	0.48
8:CR:183:LEU:CD1	8:CR:184:LYS:H	2.26	0.48
10:CT:11:ASP:HA	10:CT:14:ILE:HD13	1.96	0.48
8:CW:21:ILE:H	10:CY:20:ARG:NH1	2.12	0.48
8:CW:28:LEU:CG	10:CY:27:SER:HB3	2.44	0.48
8:CW:42:VAL:HG11	9:CX:47:VAL:HG11	1.95	0.48
8:CW:108:GLY:HA2	8:CW:132:ILE:O	2.14	0.48
9:CX:155:LEU:HD23	9:CX:155:LEU:H	1.79	0.48
7:CZ:72:LEU:O	7:CZ:73:ARG:C	2.56	0.48
8:Cb:115:ALA:HB2	8:Cb:128:ALA:HB2	1.94	0.48
9:Cc:215:LEU:O	9:Cc:215:LEU:HD23	2.14	0.48
10:Ci:11:ASP:HA	10:Ci:14:ILE:HD13	1.96	0.48
8:Cl:42:VAL:CG1	9:Cm:44:GLU:HA	2.44	0.48
8:Cl:108:GLY:HA2	8:Cl:132:ILE:O	2.14	0.48
8:Cq:155:LEU:CD1	8:Cq:161:THR:HB	2.36	0.48
9:Cr:97:PRO:HA	9:Cr:100:CYS:SG	2.54	0.48
8:Cv:108:GLY:HA2	8:Cv:132:ILE:O	2.14	0.48
9:Cw:46:PHE:HZ	10:Cx:47:ALA:C	2.21	0.48
10:Cx:24:ILE:HG23	10:Cx:25:THR:N	2.28	0.48
5:Cz:14:SER:OG	5:Cz:15:LEU:N	2.45	0.48
3:A7:15:ILE:O	3:A7:17:HIS:N	2.47	0.48
3:AJ:108:THR:HG23	3:AJ:111:TYR:CE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AK:127:LEU:HD23	3:AK:127:LEU:N	2.29	0.48
1:AM:150:ARG:HH11	1:AM:150:ARG:HG3	1.78	0.48
3:AP:127:LEU:HD23	3:AP:127:LEU:N	2.29	0.48
4:AQ:79:LEU:HA	4:AQ:85:LEU:HD22	1.95	0.48
3:AT:15:ILE:O	3:AT:17:HIS:N	2.47	0.48
3:AZ:18:ILE:HG21	3:AZ:130:PHE:HD1	1.77	0.48
1:Ag:88:PRO:HG2	1:Ag:89:PRO:HD3	1.96	0.48
3:Ao:127:LEU:HD23	3:Ao:127:LEU:N	2.29	0.48
3:Ao:142:LEU:O	3:Ao:146:ILE:HG13	2.14	0.48
4:Az:79:LEU:HD12	4:Az:79:LEU:HA	1.66	0.48
4:B3:120:GLN:HA	9:C6:65:ARG:HH22	1.78	0.48
7:B4:32:LYS:HG2	7:B4:75:LEU:HD12	1.96	0.48
6:B6:132:VAL:HG13	6:B6:133:ASP:N	2.28	0.48
6:BD:28:THR:O	6:BD:29:ASP:C	2.56	0.48
4:BZ:13:LYS:HE3	4:BZ:77:SER:O	2.13	0.48
6:Bh:28:THR:O	6:Bh:29:ASP:C	2.56	0.48
4:Bj:120:GLN:HA	9:Cm:65:ARG:HH22	1.78	0.48
7:Bk:32:LYS:HG2	7:Bk:75:LEU:HD12	1.96	0.48
6:Bm:60:GLU:HB2	6:Bm:63:SER:HB3	1.96	0.48
4:Bo:120:GLN:HG2	9:Cr:80:LEU:CD1	2.31	0.48
6:Br:142:LEU:O	6:Br:146:ILE:HG13	2.13	0.48
4:Bt:2:LYS:HD3	4:Bt:8:GLU:OE1	2.13	0.48
4:Bt:51:VAL:HG22	4:Bt:51:VAL:O	2.13	0.48
5:Bv:101:HIS:CD2	5:Bv:111:PHE:HZ	2.32	0.48
7:Bz:70:HIS:O	7:Bz:74:ILE:HG22	2.14	0.48
9:C1:162:VAL:CG1	9:C1:163:THR:N	2.76	0.48
8:C5:78:HIS:CE1	8:C5:80:LEU:HB2	2.49	0.48
8:C5:115:ALA:HB2	8:C5:128:ALA:HB2	1.94	0.48
8:C5:176:ARG:CB	8:C5:196:PHE:CB	2.91	0.48
8:C5:183:LEU:CD1	8:C5:184:LYS:H	2.26	0.48
9:CD:46:PHE:HZ	10:CE:47:ALA:C	2.21	0.48
9:CD:155:LEU:HD23	9:CD:155:LEU:H	1.79	0.48
8:CM:28:LEU:CG	10:CO:27:SER:HB3	2.44	0.48
8:CM:108:GLY:HA2	8:CM:132:ILE:O	2.14	0.48
8:CM:176:ARG:CB	8:CM:196:PHE:CB	2.91	0.48
9:CN:97:PRO:HA	9:CN:100:CYS:SG	2.54	0.48
8:CR:35:TYR:HE1	10:CT:34:LEU:CB	2.04	0.48
8:CR:108:GLY:HA2	8:CR:132:ILE:O	2.14	0.48
10:CT:9:SER:O	10:CT:13:ILE:HG13	2.13	0.48
10:CT:24:ILE:HG23	10:CT:25:THR:N	2.28	0.48
7:CU:9:GLU:HA	7:CU:12:HIS:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CX:162:VAL:CG1	9:CX:163:THR:N	2.76	0.48
8:Cb:42:VAL:CG1	9:Cc:44:GLU:HA	2.44	0.48
8:Cb:156:ASP:HB2	8:Cb:159:ASP:HB2	1.95	0.48
9:Cc:50:ILE:HD12	10:Cd:50:LEU:CD2	2.43	0.48
10:Cd:63:ASP:CB	10:Cd:66:GLU:H	2.24	0.48
9:Ch:97:PRO:HA	9:Ch:100:CYS:SG	2.54	0.48
10:Cn:203:HIS:CD2	10:Cn:215:GLU:HG3	2.49	0.48
8:Cq:28:LEU:CG	10:Cs:27:SER:HB3	2.44	0.48
8:Cq:108:GLY:HA2	8:Cq:132:ILE:O	2.14	0.48
8:Cv:156:ASP:HB2	8:Cv:159:ASP:HB2	1.95	0.48
3:A2:102:ILE:CA	3:A2:150:LEU:HG	2.39	0.47
3:A3:142:LEU:O	3:A3:146:ILE:HG13	2.14	0.47
4:A4:28:ALA:O	4:A4:29:PHE:C	2.56	0.47
3:AA:142:LEU:O	3:AA:146:ILE:HG13	2.14	0.47
3:AE:144:ALA:O	3:AE:148:LYS:HG2	2.14	0.47
3:AF:142:LEU:O	3:AF:146:ILE:HG13	2.14	0.47
1:AH:37:ARG:HH22	1:AH:63:GLU:HB3	1.79	0.47
3:AK:142:LEU:O	3:AK:146:ILE:HG13	2.14	0.47
1:AM:88:PRO:HG2	1:AM:89:PRO:HD3	1.96	0.47
2:AN:14:SER:OG	2:AN:15:LEU:N	2.48	0.47
3:AP:15:ILE:C	3:AP:17:HIS:N	2.68	0.47
4:AV:28:ALA:O	4:AV:29:PHE:C	2.56	0.47
1:AW:11:ASP:O	1:AW:14:ILE:HB	2.13	0.47
1:AW:37:ARG:HH22	1:AW:63:GLU:HB3	1.79	0.47
3:AY:102:ILE:CG1	3:AY:150:LEU:HG	2.42	0.47
3:AZ:142:LEU:O	3:AZ:146:ILE:HG13	2.14	0.47
1:Ab:11:ASP:O	1:Ab:14:ILE:HB	2.13	0.47
3:Ad:15:ILE:O	3:Ad:17:HIS:N	2.47	0.47
3:Ad:118:ALA:O	3:Ad:122:VAL:HG23	2.14	0.47
3:Aj:142:LEU:O	3:Aj:146:ILE:HG13	2.14	0.47
1:Al:37:ARG:HH22	1:Al:63:GLU:HB3	1.79	0.47
3:An:108:THR:HG23	3:An:111:TYR:CE2	2.49	0.47
4:Ap:123:ARG:HE	8:Cq:214:LEU:HD22	1.79	0.47
2:Ar:14:SER:OG	2:Ar:15:LEU:N	2.48	0.47
3:As:60:GLU:HB2	3:As:63:SER:HB3	1.95	0.47
3:At:15:ILE:C	3:At:17:HIS:N	2.68	0.47
3:At:127:LEU:HD23	3:At:127:LEU:N	2.29	0.47
3:Ax:15:ILE:O	3:Ax:17:HIS:N	2.47	0.47
4:B3:13:LYS:HE3	4:B3:77:SER:O	2.13	0.47
4:B7:79:LEU:HD12	4:B7:80:ASP:N	2.29	0.47
4:BA:79:LEU:HA	4:BA:85:LEU:HD13	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BC:101:HIS:HD2	5:BC:111:PHE:HZ	1.62	0.47
4:BF:85:LEU:O	4:BF:86:LYS:C	2.58	0.47
4:BF:119:ALA:HB1	9:CI:80:LEU:HD22	1.96	0.47
4:BF:120:GLN:HA	9:CI:65:ARG:HH22	1.78	0.47
5:BH:110:PHE:O	5:BH:113:ILE:HB	2.14	0.47
4:BO:51:VAL:HG22	4:BO:51:VAL:O	2.14	0.47
4:BP:119:ALA:HB1	9:CS:80:LEU:HD22	1.96	0.47
5:BR:101:HIS:CD2	5:BR:111:PHE:HZ	2.32	0.47
6:BS:150:LEU:HB3	6:BS:151:PRO:HD3	1.96	0.47
4:BU:79:LEU:HA	4:BU:85:LEU:HD13	1.95	0.47
7:Ba:32:LYS:HG2	7:Ba:75:LEU:HD12	1.96	0.47
7:Ba:37:ARG:HH22	7:Ba:63:GLU:HB3	1.79	0.47
6:Bc:132:VAL:HG13	6:Bc:133:ASP:N	2.28	0.47
4:Bd:79:LEU:HD12	4:Bd:80:ASP:N	2.29	0.47
5:Bg:101:HIS:HD2	5:Bg:111:PHE:HZ	1.62	0.47
4:Bj:35:ARG:CZ	9:Cm:81:LEU:HD11	2.43	0.47
4:Bj:85:LEU:O	4:Bj:86:LYS:C	2.58	0.47
4:Bj:119:ALA:HB1	9:Cm:80:LEU:HD22	1.96	0.47
5:Bl:110:PHE:O	5:Bl:113:ILE:HB	2.14	0.47
4:Bs:51:VAL:HG22	4:Bs:51:VAL:O	2.14	0.47
4:Bt:119:ALA:HB1	9:Cw:80:LEU:HD22	1.96	0.47
6:Bw:150:LEU:HB3	6:Bw:151:PRO:HD3	1.96	0.47
8:C0:42:VAL:HG11	9:C1:47:VAL:HG11	1.95	0.47
7:C3:9:GLU:HA	7:C3:12:HIS:CE1	2.49	0.47
8:C5:42:VAL:CG1	9:C6:44:GLU:HA	2.44	0.47
9:C6:50:ILE:HD12	10:C7:50:LEU:CD2	2.43	0.47
8:CC:28:LEU:CD1	10:CE:24:ILE:HG13	2.44	0.47
7:CF:72:LEU:O	7:CF:73:ARG:C	2.56	0.47
8:CH:28:LEU:CD1	10:CJ:27:SER:HB3	2.23	0.47
8:CH:54:ILE:HB	10:CJ:53:ARG:NH1	2.29	0.47
9:CI:155:LEU:HD23	9:CI:155:LEU:H	1.79	0.47
10:CJ:203:HIS:CD2	10:CJ:215:GLU:HG3	2.49	0.47
9:CN:46:PHE:HZ	10:CO:47:ALA:C	2.21	0.47
10:CO:140:PRO:HA	10:CO:171:PHE:CD2	2.49	0.47
9:CS:215:LEU:O	9:CS:215:LEU:HD23	2.14	0.47
8:CW:117:TRP:HA	8:CW:218:ALA:CB	2.44	0.47
9:CX:46:PHE:HZ	10:CY:47:ALA:C	2.21	0.47
10:CY:173:ASP:O	10:CY:174:HIS:HB2	2.13	0.47
8:Cb:78:HIS:CE1	8:Cb:80:LEU:HB2	2.49	0.47
8:Cb:176:ARG:CB	8:Cb:196:PHE:CB	2.91	0.47
8:Cg:28:LEU:CD1	10:Ci:24:ILE:HG13	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ch:155:LEU:HD23	9:Ch:155:LEU:H	1.79	0.47
9:Cm:97:PRO:HA	9:Cm:100:CYS:SG	2.54	0.47
8:Cq:176:ARG:CB	8:Cq:196:PHE:CB	2.91	0.47
9:Cr:46:PHE:HZ	10:Cs:47:ALA:C	2.21	0.47
10:Cs:140:PRO:HA	10:Cs:171:PHE:CD2	2.49	0.47
8:Cv:35:TYR:HE1	10:Cx:34:LEU:CB	2.04	0.47
8:Cv:42:VAL:HG11	9:Cw:47:VAL:HG11	1.95	0.47
9:Cw:138:ARG:HD3	9:Cw:138:ARG:HA	1.73	0.47
9:Cw:215:LEU:O	9:Cw:215:LEU:HD23	2.14	0.47
7:Cy:9:GLU:HA	7:Cy:12:HIS:CE1	2.49	0.47
3:A2:132:VAL:HG13	3:A2:133:ASP:N	2.30	0.47
3:A3:96:HIS:O	3:A3:100:GLN:HG3	2.14	0.47
3:A3:102:ILE:HG12	3:A3:150:LEU:HB3	1.96	0.47
3:A7:23:TRP:HH2	3:A7:75:ASN:CA	2.27	0.47
3:A7:118:ALA:O	3:A7:122:VAL:HG23	2.14	0.47
3:AA:79:LEU:HD13	3:AA:79:LEU:O	2.14	0.47
3:AE:15:ILE:O	3:AE:17:HIS:N	2.47	0.47
3:AF:96:HIS:O	3:AF:100:GLN:HG3	2.14	0.47
1:AH:88:PRO:HG2	1:AH:89:PRO:HD3	1.96	0.47
4:AL:123:ARG:HE	8:CM:214:LEU:HD22	1.79	0.47
2:AS:83:MET:HG2	2:AS:93:GLN:CB	2.44	0.47
3:AT:53:PHE:HB2	3:AT:58:ILE:CG2	2.44	0.47
3:AU:79:LEU:HD13	3:AU:79:LEU:O	2.15	0.47
3:AZ:60:GLU:O	3:AZ:63:SER:HB3	2.14	0.47
3:AZ:96:HIS:O	3:AZ:100:GLN:HG3	2.14	0.47
3:AZ:102:ILE:HG12	3:AZ:150:LEU:HB3	1.96	0.47
4:Aa:28:ALA:O	4:Aa:29:PHE:C	2.56	0.47
3:Ad:23:TRP:HH2	3:Ad:75:ASN:CA	2.27	0.47
3:Ae:142:LEU:O	3:Ae:146:ILE:HG13	2.14	0.47
3:Ai:144:ALA:O	3:Ai:148:LYS:HG2	2.14	0.47
3:Aj:96:HIS:O	3:Aj:100:GLN:HG3	2.14	0.47
3:An:15:ILE:O	3:An:17:HIS:N	2.47	0.47
1:Aq:150:ARG:HG3	1:Aq:150:ARG:HH11	1.78	0.47
2:Ar:18:LYS:HZ3	2:Ar:85:ASP:HB2	1.80	0.47
3:As:15:ILE:O	3:As:17:HIS:N	2.47	0.47
2:Aw:83:MET:HG2	2:Aw:93:GLN:CB	2.44	0.47
3:Ay:79:LEU:HD13	3:Ay:79:LEU:O	2.15	0.47
4:Az:28:ALA:O	4:Az:29:PHE:C	2.56	0.47
6:B1:28:THR:O	6:B1:29:ASP:C	2.56	0.47
6:B1:132:VAL:HG13	6:B1:133:ASP:N	2.28	0.47
7:B4:37:ARG:HH22	7:B4:63:GLU:HB3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BF:79:LEU:HA	4:BF:85:LEU:HD13	1.95	0.47
6:BI:28:THR:O	6:BI:29:ASP:C	2.56	0.47
5:BM:84:LEU:HD12	5:BM:85:ASP:H	1.79	0.47
4:BP:2:LYS:HD3	4:BP:8:GLU:OE1	2.13	0.47
6:BS:53:PHE:HB2	6:BS:58:ILE:CG2	2.44	0.47
4:Be:79:LEU:HA	4:Be:85:LEU:HD13	1.95	0.47
6:Bm:132:VAL:HG13	6:Bm:133:ASP:N	2.28	0.47
6:Bw:53:PHE:HB2	6:Bw:58:ILE:CG2	2.44	0.47
4:Bx:81:GLN:HA	4:Bx:82:PRO:HD2	1.64	0.47
8:C0:183:LEU:CD1	8:C0:184:LYS:H	2.26	0.47
9:C1:82:VAL:HA	9:C1:88:ASP:HB2	1.96	0.47
8:C5:28:LEU:CG	10:C7:27:SER:HB3	2.44	0.47
8:C5:117:TRP:HA	8:C5:218:ALA:CB	2.44	0.47
8:C5:156:ASP:HB2	8:C5:159:ASP:HB2	1.95	0.47
10:C7:140:PRO:HA	10:C7:171:PHE:CD2	2.49	0.47
8:CC:78:HIS:CE1	8:CC:80:LEU:HB2	2.49	0.47
8:CH:28:LEU:CD1	10:CJ:24:ILE:HG13	2.44	0.47
9:CI:97:PRO:HA	9:CI:100:CYS:SG	2.54	0.47
8:CM:28:LEU:CD1	10:CO:24:ILE:HG13	2.45	0.47
9:CN:82:VAL:HA	9:CN:88:ASP:HB2	1.96	0.47
10:CO:203:HIS:CD2	10:CO:215:GLU:HG3	2.49	0.47
8:CR:28:LEU:CD1	10:CT:24:ILE:HG13	2.44	0.47
9:CS:62:CYS:SG	9:CS:68:GLN:HB2	2.54	0.47
9:CS:162:VAL:CG1	9:CS:163:THR:N	2.76	0.47
10:CT:173:ASP:O	10:CT:174:HIS:HB2	2.13	0.47
7:CZ:9:GLU:HA	7:CZ:12:HIS:CE1	2.49	0.47
8:Cg:78:HIS:CE1	8:Cg:80:LEU:HB2	2.49	0.47
8:Cg:182:PRO:CD	8:Cg:211:PRO:HG3	2.45	0.47
9:Ch:137:ARG:CB	9:Ch:141:PHE:HB3	2.34	0.47
7:Cj:72:LEU:O	7:Cj:73:ARG:C	2.56	0.47
8:Cl:54:ILE:HB	10:Cn:53:ARG:NH1	2.29	0.47
9:Cm:155:LEU:HD23	9:Cm:155:LEU:H	1.79	0.47
8:Cq:28:LEU:CD1	10:Cs:24:ILE:HG13	2.45	0.47
9:Cr:139:LYS:HZ3	10:Cx:158:GLU:HB2	1.78	0.47
8:Cv:28:LEU:CD1	10:Cx:24:ILE:HG13	2.44	0.47
9:Cw:62:CYS:SG	9:Cw:68:GLN:HB2	2.54	0.47
10:Cx:9:SER:O	10:Cx:13:ILE:HG13	2.13	0.47
10:Cx:173:ASP:O	10:Cx:174:HIS:HB2	2.13	0.47
1:A0:11:ASP:O	1:A0:14:ILE:HB	2.13	0.47
4:AB:123:ARG:HE	8:CC:214:LEU:HD22	1.79	0.47
1:AC:37:ARG:HH22	1:AC:63:GLU:HB3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AE:53:PHE:HB2	3:AE:58:ILE:CG2	2.44	0.47
3:AF:60:GLU:HB2	3:AF:63:SER:HB3	1.96	0.47
4:AG:123:ARG:HE	8:CH:214:LEU:HD22	1.79	0.47
3:AJ:15:ILE:O	3:AJ:17:HIS:N	2.47	0.47
4:AL:79:LEU:HA	4:AL:85:LEU:HD22	1.95	0.47
3:AO:15:ILE:O	3:AO:17:HIS:N	2.47	0.47
3:AP:60:GLU:HB2	3:AP:63:SER:HB3	1.96	0.47
4:AQ:64:HIS:O	4:AQ:68:VAL:HG23	2.15	0.47
2:AS:14:SER:OG	2:AS:15:LEU:N	2.48	0.47
3:AT:132:VAL:HG13	3:AT:133:ASP:N	2.30	0.47
3:AU:127:LEU:HD23	3:AU:127:LEU:N	2.29	0.47
4:AV:123:ARG:HD2	8:CW:179:LEU:CD1	2.42	0.47
3:AY:132:VAL:HG13	3:AY:133:ASP:N	2.30	0.47
3:AZ:127:LEU:HD23	3:AZ:127:LEU:N	2.29	0.47
3:Ae:79:LEU:HD13	3:Ae:79:LEU:O	2.14	0.47
4:Af:64:HIS:O	4:Af:68:VAL:HG23	2.15	0.47
4:Af:123:ARG:HE	8:Cg:214:LEU:HD22	1.79	0.47
3:Ai:53:PHE:HB2	3:Ai:58:ILE:CG2	2.44	0.47
3:Ai:118:ALA:O	3:Ai:122:VAL:HG23	2.14	0.47
4:Ak:123:ARG:HE	8:Cl:214:LEU:HD22	1.79	0.47
1:Al:88:PRO:HG2	1:Al:89:PRO:HD3	1.96	0.47
1:Aq:88:PRO:HG2	1:Aq:89:PRO:HD3	1.96	0.47
3:As:53:PHE:HB2	3:As:58:ILE:CG2	2.44	0.47
3:As:102:ILE:CA	3:As:150:LEU:HG	2.38	0.47
3:At:60:GLU:HB2	3:At:63:SER:HB3	1.96	0.47
2:Aw:14:SER:OG	2:Aw:15:LEU:N	2.48	0.47
3:Ax:53:PHE:HB2	3:Ax:58:ILE:CG2	2.44	0.47
3:Ax:144:ALA:O	3:Ax:148:LYS:HG2	2.14	0.47
4:Az:123:ARG:HD2	8:C0:179:LEU:CD1	2.42	0.47
5:B0:110:PHE:O	5:B0:113:ILE:HB	2.14	0.47
4:B2:79:LEU:HD12	4:B2:80:ASP:N	2.29	0.47
6:B6:15:ILE:C	6:B6:17:HIS:H	2.22	0.47
6:BD:79:LEU:HD13	6:BD:79:LEU:C	2.40	0.47
5:BH:84:LEU:HD12	5:BH:85:ASP:H	1.79	0.47
5:BH:101:HIS:HD2	5:BH:111:PHE:HZ	1.62	0.47
5:BH:101:HIS:CD2	5:BH:111:PHE:HZ	2.32	0.47
6:BI:132:VAL:HG13	6:BI:133:ASP:N	2.28	0.47
7:BQ:70:HIS:O	7:BQ:74:ILE:HG22	2.14	0.47
6:BS:68:SER:HA	5:CQ:83:MET:CE	2.45	0.47
6:BS:79:LEU:HD13	6:BS:79:LEU:C	2.40	0.47
4:BU:51:VAL:HG22	4:BU:51:VAL:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BU:119:ALA:HB1	9:CX:80:LEU:HD22	1.96	0.47
5:BW:110:PHE:O	5:BW:113:ILE:HB	2.14	0.47
6:BX:28:THR:O	6:BX:29:ASP:C	2.56	0.47
4:BY:79:LEU:HD12	4:BY:80:ASP:N	2.29	0.47
6:Bh:79:LEU:HD13	6:Bh:79:LEU:C	2.40	0.47
4:Bj:79:LEU:HA	4:Bj:85:LEU:HD13	1.95	0.47
5:Bq:84:LEU:HD12	5:Bq:85:ASP:H	1.79	0.47
4:Bt:13:LYS:HE3	4:Bt:77:SER:O	2.12	0.47
6:Bw:68:SER:HA	5:Cu:83:MET:CE	2.45	0.47
6:Bw:79:LEU:HD13	6:Bw:79:LEU:C	2.40	0.47
4:By:79:LEU:HA	4:By:85:LEU:HD13	1.95	0.47
8:C0:176:ARG:CB	8:C0:196:PHE:CB	2.91	0.47
9:C1:46:PHE:HZ	10:C2:47:ALA:C	2.21	0.47
10:C2:173:ASP:O	10:C2:174:HIS:HB2	2.13	0.47
8:C5:10:PHE:CZ	9:C6:10:LEU:HA	2.49	0.47
8:C5:11:GLN:CA	10:C7:13:ILE:CD1	2.78	0.47
8:C5:28:LEU:O	8:C5:31:ILE:HB	2.14	0.47
9:C6:140:PHE:HB2	9:C6:141:PHE:CA	2.40	0.47
10:C7:63:ASP:CB	10:C7:66:GLU:H	2.24	0.47
8:CC:87:LYS:HB2	8:CC:87:LYS:HE2	1.66	0.47
8:CC:152:SER:HA	8:CC:163:SER:O	2.15	0.47
8:CC:182:PRO:CD	8:CC:211:PRO:HG3	2.45	0.47
9:CD:57:ILE:HD13	10:CE:57:LEU:HB2	1.94	0.47
8:CH:182:PRO:CD	8:CH:211:PRO:HG3	2.45	0.47
9:CI:96:ASP:HA	9:CI:97:PRO:HD3	1.49	0.47
10:CJ:11:ASP:HA	10:CJ:14:ILE:HD13	1.96	0.47
8:CM:42:VAL:CG1	9:CN:44:GLU:HA	2.44	0.47
9:CN:62:CYS:SG	9:CN:68:GLN:HB2	2.54	0.47
5:CQ:8:GLU:HB2	5:CQ:9:CYS:H	1.51	0.47
8:CR:14:VAL:HG11	10:CT:13:ILE:CG2	2.11	0.47
8:CR:172:ASN:C	8:CR:172:ASN:ND2	2.67	0.47
9:CS:43:PRO:CD	10:CT:38:ARG:HG2	2.44	0.47
10:CT:140:PRO:HA	10:CT:171:PHE:CD2	2.49	0.47
10:CT:197:PHE:HB3	10:CT:199:ARG:CB	2.37	0.47
8:CW:176:ARG:CB	8:CW:196:PHE:CB	2.91	0.47
8:CW:183:LEU:CD1	8:CW:184:LYS:H	2.26	0.47
8:Cb:28:LEU:CG	10:Cd:27:SER:HB3	2.44	0.47
8:Cb:117:TRP:HA	8:Cb:218:ALA:CB	2.44	0.47
9:Cc:38:ALA:HB3	10:Cd:35:LEU:HD11	1.88	0.47
10:Cd:140:PRO:HA	10:Cd:171:PHE:CD2	2.49	0.47
10:Cd:169:TYR:CE1	10:Cd:174:HIS:HA	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:117:TRP:CD1	8:Cg:121:GLU:CB	2.92	0.47
8:Cg:152:SER:HA	8:Cg:163:SER:O	2.15	0.47
8:Cl:28:LEU:CD1	10:Cn:24:ILE:HG13	2.44	0.47
8:Cl:182:PRO:CD	8:Cl:211:PRO:HG3	2.45	0.47
10:Cn:11:ASP:HA	10:Cn:14:ILE:HD13	1.96	0.47
8:Cq:42:VAL:CG1	9:Cr:44:GLU:HA	2.44	0.47
8:Cq:117:TRP:HA	8:Cq:218:ALA:CB	2.44	0.47
9:Cr:62:CYS:SG	9:Cr:68:GLN:HB2	2.54	0.47
9:Cr:92:ALA:HB3	9:Cr:95:GLU:CG	2.20	0.47
10:Cs:11:ASP:HA	10:Cs:14:ILE:HD13	1.96	0.47
10:Cs:203:HIS:CD2	10:Cs:215:GLU:HG3	2.49	0.47
8:Cv:117:TRP:HA	8:Cv:218:ALA:CB	2.43	0.47
9:Cw:43:PRO:CD	10:Cx:38:ARG:HG2	2.44	0.47
9:Cw:162:VAL:CG1	9:Cw:163:THR:N	2.76	0.47
3:A3:60:GLU:O	3:A3:63:SER:HB3	2.14	0.47
3:A3:127:LEU:HD23	3:A3:127:LEU:N	2.29	0.47
2:A6:83:MET:HG2	2:A6:93:GLN:CB	2.44	0.47
4:AB:64:HIS:O	4:AB:68:VAL:HG23	2.15	0.47
3:AE:108:THR:HG23	3:AE:111:TYR:CE2	2.49	0.47
3:AE:118:ALA:O	3:AE:122:VAL:HG23	2.14	0.47
3:AO:53:PHE:HB2	3:AO:58:ILE:CG2	2.44	0.47
4:AQ:92:LEU:O	4:AQ:93:GLN:C	2.58	0.47
1:AR:37:ARG:HH22	1:AR:63:GLU:HB3	1.79	0.47
3:AT:144:ALA:O	3:AT:148:LYS:HG2	2.14	0.47
3:AU:60:GLU:O	3:AU:63:SER:HB3	2.14	0.47
4:AV:64:HIS:O	4:AV:68:VAL:HG23	2.15	0.47
3:AY:150:LEU:CB	3:AY:151:PRO:HD3	2.43	0.47
3:Ai:15:ILE:O	3:Ai:17:HIS:N	2.47	0.47
3:Aj:60:GLU:HB2	3:Aj:63:SER:HB3	1.96	0.47
4:Au:64:HIS:O	4:Au:68:VAL:HG23	2.15	0.47
4:Au:92:LEU:O	4:Au:93:GLN:C	2.58	0.47
3:Ax:132:VAL:HG13	3:Ax:133:ASP:N	2.30	0.47
3:Ay:127:LEU:HD23	3:Ay:127:LEU:N	2.29	0.47
4:Az:64:HIS:O	4:Az:68:VAL:HG23	2.15	0.47
4:B3:79:LEU:HA	4:B3:85:LEU:HD13	1.95	0.47
7:B4:70:HIS:O	7:B4:74:ILE:HG22	2.14	0.47
6:BI:79:LEU:HD13	6:BI:79:LEU:C	2.40	0.47
7:BL:37:ARG:HH22	7:BL:63:GLU:HB3	1.79	0.47
5:BM:110:PHE:O	5:BM:113:ILE:HB	2.15	0.47
4:BP:13:LYS:HE3	4:BP:77:SER:O	2.12	0.47
5:BR:36:LEU:HD22	5:CQ:128:THR:HB	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BS:142:LEU:O	6:BS:146:ILE:HG13	2.13	0.47
6:BX:132:VAL:HG13	6:BX:133:ASP:N	2.28	0.47
4:BZ:79:LEU:HA	4:BZ:85:LEU:HD13	1.95	0.47
5:Bb:11:VAL:H	5:Bb:11:VAL:HG23	1.19	0.47
4:Be:92:LEU:CD1	4:Be:141:ILE:HG12	2.43	0.47
6:Bh:132:VAL:HG13	6:Bh:133:ASP:N	2.28	0.47
5:Bl:84:LEU:HD12	5:Bl:85:ASP:H	1.79	0.47
5:Bl:101:HIS:HD2	5:Bl:111:PHE:HZ	1.62	0.47
5:Bl:101:HIS:CD2	5:Bl:111:PHE:HZ	2.32	0.47
6:Bm:28:THR:O	6:Bm:29:ASP:C	2.56	0.47
6:Bm:79:LEU:HD13	6:Bm:79:LEU:C	2.40	0.47
7:Bu:70:HIS:O	7:Bu:74:ILE:HG22	2.14	0.47
5:Bv:36:LEU:HD22	5:Cu:128:THR:HB	1.97	0.47
6:Bw:118:ALA:O	6:Bw:122:VAL:HG23	2.15	0.47
4:Bx:76:ILE:HA	4:Bx:79:LEU:CD2	2.27	0.47
4:By:51:VAL:HG22	4:By:51:VAL:O	2.13	0.47
4:By:119:ALA:HB1	9:C1:80:LEU:HD22	1.96	0.47
9:C1:18:ALA:C	9:C1:20:LEU:H	2.22	0.47
7:C3:31:ILE:O	7:C3:32:LYS:C	2.58	0.47
8:C5:28:LEU:CD1	10:C7:24:ILE:HG13	2.45	0.47
8:C5:210:VAL:O	8:C5:210:VAL:HG13	2.15	0.47
10:C7:169:TYR:CE1	10:C7:174:HIS:HA	2.48	0.47
8:CC:28:LEU:CG	10:CE:27:SER:HB3	2.44	0.47
10:CJ:140:PRO:HA	10:CJ:171:PHE:CD2	2.49	0.47
8:CM:117:TRP:HA	8:CM:218:ALA:CB	2.44	0.47
9:CN:139:LYS:HZ3	10:CT:158:GLU:HB2	1.78	0.47
10:CO:11:ASP:HA	10:CO:14:ILE:HD13	1.96	0.47
8:CR:117:TRP:HA	8:CR:218:ALA:CB	2.43	0.47
8:CW:156:ASP:HB2	8:CW:159:ASP:HB2	1.95	0.47
8:CW:210:VAL:O	8:CW:210:VAL:HG13	2.15	0.47
9:CX:82:VAL:HA	9:CX:88:ASP:HB2	1.96	0.47
7:CZ:31:ILE:O	7:CZ:32:LYS:C	2.58	0.47
8:Cb:10:PHE:CZ	9:Cc:10:LEU:HA	2.49	0.47
8:Cb:11:GLN:CA	10:Cd:13:ILE:CD1	2.78	0.47
8:Cb:28:LEU:CD1	10:Cd:24:ILE:HG13	2.45	0.47
8:Cb:28:LEU:O	8:Cb:31:ILE:HB	2.14	0.47
8:Cb:210:VAL:O	8:Cb:210:VAL:HG13	2.15	0.47
9:Cc:140:PHE:HB2	9:Cc:141:PHE:CA	2.40	0.47
10:Cd:203:HIS:CD2	10:Cd:215:GLU:HG3	2.49	0.47
9:Ch:57:ILE:HD13	10:Ci:57:LEU:HB2	1.94	0.47
10:Ci:203:HIS:CD2	10:Ci:215:GLU:HG3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cl:210:VAL:O	8:Cl:210:VAL:HG13	2.15	0.47
9:Cm:57:ILE:HD13	10:Cn:57:LEU:HB2	1.94	0.47
10:Cn:140:PRO:HA	10:Cn:171:PHE:CD2	2.49	0.47
8:Cq:28:LEU:CD1	10:Cs:27:SER:HB3	2.23	0.47
8:Cq:56:ASN:HD22	8:Cq:198:LEU:HB3	1.77	0.47
9:Cr:82:VAL:HA	9:Cr:88:ASP:HB2	1.96	0.47
10:Cx:140:PRO:HA	10:Cx:171:PHE:CD2	2.49	0.47
3:A2:60:GLU:HB2	3:A2:63:SER:HB3	1.95	0.47
2:A6:84:LEU:CA	2:A6:90:LEU:HD22	2.32	0.47
3:AA:102:ILE:HG12	3:AA:150:LEU:HB3	1.96	0.47
4:AL:92:LEU:O	4:AL:93:GLN:C	2.58	0.47
4:AV:79:LEU:HA	4:AV:85:LEU:HD22	1.95	0.47
4:AV:85:LEU:O	4:AV:86:LYS:C	2.56	0.47
2:Ac:83:MET:HG2	2:Ac:93:GLN:CB	2.44	0.47
3:Ae:102:ILE:HG12	3:Ae:150:LEU:HB3	1.96	0.47
1:Ag:37:ARG:HH22	1:Ag:63:GLU:HB3	1.79	0.47
3:Ai:108:THR:HG23	3:Ai:111:TYR:CE2	2.49	0.47
4:Ap:79:LEU:HA	4:Ap:85:LEU:HD22	1.95	0.47
4:Ap:92:LEU:O	4:Ap:93:GLN:C	2.58	0.47
3:As:23:TRP:HH2	3:As:75:ASN:CA	2.27	0.47
1:Av:37:ARG:HH22	1:Av:63:GLU:HB3	1.79	0.47
3:Ay:60:GLU:O	3:Ay:63:SER:HB3	2.14	0.47
6:B6:79:LEU:HD13	6:B6:79:LEU:C	2.40	0.47
4:BA:28:ALA:O	4:BA:29:PHE:C	2.58	0.47
4:BA:92:LEU:CD1	4:BA:141:ILE:HG12	2.43	0.47
7:BB:37:ARG:HH22	7:BB:63:GLU:HB3	1.79	0.47
5:BC:111:PHE:HB3	5:BC:143:ILE:HG23	1.96	0.47
6:BD:132:VAL:HG13	6:BD:133:ASP:N	2.28	0.47
6:BI:53:PHE:HB2	6:BI:58:ILE:CG2	2.45	0.47
6:BN:118:ALA:O	6:BN:122:VAL:HG23	2.15	0.47
4:BP:85:LEU:O	4:BP:86:LYS:C	2.57	0.47
6:BS:118:ALA:O	6:BS:122:VAL:HG23	2.15	0.47
4:BT:79:LEU:HD12	4:BT:80:ASP:N	2.29	0.47
7:Ba:70:HIS:O	7:Ba:74:ILE:HG22	2.14	0.47
7:Ba:88:PRO:HG2	7:Ba:89:PRO:CD	2.43	0.47
6:Bc:79:LEU:HD13	6:Bc:79:LEU:C	2.40	0.47
6:Bh:150:LEU:HB3	6:Bh:151:PRO:HD3	1.96	0.47
6:Bm:53:PHE:HB2	6:Bm:58:ILE:CG2	2.45	0.47
5:Bq:110:PHE:O	5:Bq:113:ILE:HB	2.15	0.47
6:Bw:142:LEU:O	6:Bw:146:ILE:HG13	2.13	0.47
4:Bx:79:LEU:HD12	4:Bx:80:ASP:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C0:152:SER:HA	8:C0:163:SER:O	2.15	0.47
8:C0:156:ASP:HB2	8:C0:159:ASP:HB2	1.95	0.47
8:C0:210:VAL:HG13	8:C0:210:VAL:O	2.15	0.47
8:C5:182:PRO:CD	8:C5:211:PRO:HG3	2.45	0.47
9:C6:62:CYS:SG	9:C6:68:GLN:HB2	2.54	0.47
10:C7:203:HIS:CD2	10:C7:215:GLU:HG3	2.49	0.47
9:CD:43:PRO:CD	10:CE:38:ARG:HG2	2.44	0.47
8:CH:210:VAL:O	8:CH:210:VAL:HG13	2.15	0.47
8:CM:176:ARG:HB3	8:CM:196:PHE:CB	2.45	0.47
8:CM:182:PRO:CD	8:CM:211:PRO:HG3	2.45	0.47
9:CN:18:ALA:C	9:CN:20:LEU:H	2.22	0.47
8:CW:152:SER:HA	8:CW:163:SER:O	2.15	0.47
8:Cb:182:PRO:CD	8:Cb:211:PRO:HG3	2.45	0.47
8:Cg:28:LEU:CG	10:Ci:27:SER:HB3	2.44	0.47
8:Cl:117:TRP:CD1	8:Cl:121:GLU:CB	2.92	0.47
8:Cq:82:PHE:HA	8:Cq:83:CYS:HA	1.65	0.47
8:Cq:182:PRO:CD	8:Cq:211:PRO:HG3	2.45	0.47
5:Cu:8:GLU:HB2	5:Cu:9:CYS:H	1.51	0.47
8:Cv:176:ARG:HB3	8:Cv:196:PHE:CB	2.45	0.47
8:Cv:182:PRO:CD	8:Cv:211:PRO:HG3	2.45	0.47
3:A2:108:THR:HG23	3:A2:111:TYR:CE2	2.49	0.47
3:A2:144:ALA:O	3:A2:148:LYS:HG2	2.14	0.47
3:A2:150:LEU:CB	3:A2:151:PRO:HD3	2.43	0.47
4:A4:64:HIS:O	4:A4:68:VAL:HG23	2.15	0.47
4:A4:123:ARG:CD	8:C5:179:LEU:HD11	2.42	0.47
3:A7:108:THR:HG23	3:A7:111:TYR:CE2	2.49	0.47
3:AF:79:LEU:HD13	3:AF:79:LEU:O	2.15	0.47
3:AO:23:TRP:HH2	3:AO:75:ASN:CA	2.27	0.47
3:AT:108:THR:HG23	3:AT:111:TYR:CE2	2.49	0.47
4:AV:123:ARG:HE	8:CW:214:LEU:HD22	1.79	0.47
4:Aa:64:HIS:O	4:Aa:68:VAL:HG23	2.15	0.47
3:Aj:79:LEU:O	3:Aj:79:LEU:HD13	2.15	0.47
3:As:108:THR:HG23	3:As:111:TYR:CE2	2.49	0.47
5:B0:101:HIS:CD2	5:B0:111:PHE:HZ	2.32	0.47
6:B1:136:ASN:HD22	6:B1:136:ASN:HA	1.56	0.47
7:B4:88:PRO:HG2	7:B4:89:PRO:CD	2.43	0.47
7:BB:32:LYS:HG2	7:BB:75:LEU:HD12	1.96	0.47
6:BD:150:LEU:HB3	6:BD:151:PRO:HD3	1.96	0.47
7:BG:70:HIS:O	7:BG:74:ILE:HG22	2.14	0.47
7:BL:88:PRO:N	7:BL:89:PRO:HD2	2.30	0.47
6:BN:79:LEU:HD13	6:BN:79:LEU:C	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BQ:88:PRO:N	7:BQ:89:PRO:HD2	2.30	0.47
6:BX:68:SER:HA	5:CV:83:MET:CE	2.45	0.47
4:BZ:2:LYS:HD3	4:BZ:8:GLU:OE1	2.13	0.47
4:Be:28:ALA:O	4:Be:29:PHE:C	2.58	0.47
7:Bf:37:ARG:HH22	7:Bf:63:GLU:HB3	1.79	0.47
5:Bg:36:LEU:HD22	5:Cf:128:THR:HB	1.97	0.47
5:Bg:111:PHE:HB3	5:Bg:143:ILE:HG23	1.96	0.47
6:Bh:145:ARG:CA	6:Bh:148:LYS:HB2	2.44	0.47
4:Bo:79:LEU:HA	4:Bo:85:LEU:HD13	1.95	0.47
7:Bp:37:ARG:HH22	7:Bp:63:GLU:HB3	1.79	0.47
7:Bp:88:PRO:N	7:Bp:89:PRO:HD2	2.30	0.47
6:Br:68:SER:HA	5:Cp:83:MET:CE	2.45	0.47
6:Br:79:LEU:HD13	6:Br:79:LEU:C	2.40	0.47
6:Br:118:ALA:O	6:Br:122:VAL:HG23	2.15	0.47
4:Bt:85:LEU:O	4:Bt:86:LYS:C	2.57	0.47
7:Bu:88:PRO:N	7:Bu:89:PRO:HD2	2.30	0.47
5:Bv:11:VAL:H	5:Bv:11:VAL:HG23	1.19	0.47
8:C0:78:HIS:CE1	8:C0:80:LEU:HB2	2.49	0.47
9:C1:31:LEU:HD13	10:C2:28:ILE:HA	1.90	0.47
7:C3:37:ARG:HH22	7:C3:63:GLU:HB3	1.78	0.47
8:C5:54:ILE:HB	10:C7:53:ARG:NH1	2.29	0.47
8:C5:56:ASN:HB2	8:C5:198:LEU:O	2.08	0.47
8:CC:54:ILE:HB	10:CE:53:ARG:NH1	2.29	0.47
8:CC:82:PHE:HA	8:CC:83:CYS:HA	1.65	0.47
8:CC:117:TRP:CD1	8:CC:121:GLU:CB	2.92	0.47
8:CC:124:ASN:CG	8:CC:125:PRO:HD2	2.40	0.47
8:CC:210:VAL:O	8:CC:210:VAL:HG13	2.15	0.47
9:CD:137:ARG:CB	9:CD:141:PHE:HB3	2.34	0.47
10:CE:203:HIS:CD2	10:CE:215:GLU:HG3	2.49	0.47
9:CI:62:CYS:SG	9:CI:68:GLN:HB2	2.55	0.47
9:CI:208:HIS:HA	9:CI:219:ALA:O	2.15	0.47
7:CK:88:PRO:N	7:CK:89:PRO:HD2	2.30	0.47
8:CM:28:LEU:O	8:CM:31:ILE:HB	2.14	0.47
8:CM:56:ASN:HD22	8:CM:198:LEU:HB3	1.77	0.47
8:CR:176:ARG:HB3	8:CR:196:PHE:CB	2.45	0.47
8:CR:182:PRO:CD	8:CR:211:PRO:HG3	2.45	0.47
8:CW:78:HIS:CE1	8:CW:80:LEU:HB2	2.49	0.47
9:CX:18:ALA:C	9:CX:20:LEU:H	2.22	0.47
9:CX:31:LEU:HD13	10:CY:28:ILE:HA	1.90	0.47
7:CZ:37:ARG:HH22	7:CZ:63:GLU:HB3	1.78	0.47
8:Cb:54:ILE:HB	10:Cd:53:ARG:NH1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cb:152:SER:HA	8:Cb:163:SER:O	2.15	0.47
9:Cc:62:CYS:SG	9:Cc:68:GLN:HB2	2.54	0.47
8:Cg:28:LEU:O	8:Cg:31:ILE:HB	2.14	0.47
8:Cg:54:ILE:HB	10:Ci:53:ARG:NH1	2.29	0.47
8:Cg:124:ASN:CG	8:Cg:125:PRO:HD2	2.40	0.47
8:Cg:210:VAL:O	8:Cg:210:VAL:HG13	2.15	0.47
9:Ch:43:PRO:CD	10:Ci:38:ARG:HG2	2.44	0.47
9:Cm:62:CYS:SG	9:Cm:68:GLN:HB2	2.55	0.47
9:Cm:208:HIS:HA	9:Cm:219:ALA:O	2.15	0.47
9:Cm:215:LEU:O	9:Cm:215:LEU:HD23	2.14	0.47
7:Co:88:PRO:N	7:Co:89:PRO:HD2	2.30	0.47
8:Cq:176:ARG:HB3	8:Cq:196:PHE:CB	2.45	0.47
9:Cw:82:VAL:HA	9:Cw:88:ASP:HB2	1.96	0.47
2:A1:14:SER:OG	2:A1:15:LEU:N	2.47	0.47
3:A2:28:THR:O	3:A2:29:ASP:C	2.58	0.47
3:A3:79:LEU:HD13	3:A3:79:LEU:O	2.14	0.47
1:A5:87:ASP:OD1	1:A5:89:PRO:HG2	2.15	0.47
2:A6:97:LEU:HB3	2:A6:146:ILE:HG23	1.97	0.47
2:A6:110:PHE:O	2:A6:113:ILE:HB	2.15	0.47
3:AA:127:LEU:HD23	3:AA:127:LEU:N	2.29	0.47
4:AB:123:ARG:HD2	8:CC:179:LEU:CD1	2.42	0.47
1:AC:87:ASP:OD1	1:AC:89:PRO:HG2	2.15	0.47
4:AG:85:LEU:O	4:AG:86:LYS:C	2.56	0.47
4:AG:92:LEU:O	4:AG:93:GLN:C	2.58	0.47
2:AN:18:LYS:HD2	2:AN:85:ASP:HB2	1.97	0.47
3:AO:108:THR:HG23	3:AO:111:TYR:CE2	2.49	0.47
3:AO:144:ALA:O	3:AO:148:LYS:HG2	2.14	0.47
3:AP:18:ILE:HG21	3:AP:130:PHE:HD1	1.77	0.47
3:AP:19:TRP:C	3:AP:21:ASP:H	2.23	0.47
3:AP:142:LEU:O	3:AP:146:ILE:HG13	2.14	0.47
4:AV:92:LEU:O	4:AV:93:GLN:C	2.58	0.47
2:AX:14:SER:OG	2:AX:15:LEU:N	2.47	0.47
3:AY:28:THR:O	3:AY:29:ASP:C	2.58	0.47
3:AY:60:GLU:HB2	3:AY:63:SER:HB3	1.95	0.47
3:AY:108:THR:HG23	3:AY:111:TYR:CE2	2.49	0.47
3:AY:144:ALA:O	3:AY:148:LYS:HG2	2.14	0.47
1:Ab:87:ASP:OD1	1:Ab:89:PRO:HG2	2.15	0.47
2:Ac:18:LYS:CD	2:Ac:85:ASP:HB2	2.45	0.47
2:Ac:97:LEU:HB3	2:Ac:146:ILE:HG23	1.97	0.47
2:Ac:110:PHE:O	2:Ac:113:ILE:HB	2.15	0.47
3:Ad:108:THR:HG23	3:Ad:111:TYR:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Af:123:ARG:HD2	8:Cg:179:LEU:CD1	2.42	0.47
1:Ag:87:ASP:OD1	1:Ag:89:PRO:HG2	2.15	0.47
4:Ak:64:HIS:O	4:Ak:68:VAL:HG23	2.15	0.47
4:Ak:92:LEU:O	4:Ak:93:GLN:C	2.58	0.47
3:As:144:ALA:O	3:As:148:LYS:HG2	2.14	0.47
3:At:142:LEU:O	3:At:146:ILE:HG13	2.14	0.47
1:Av:87:ASP:OD1	1:Av:89:PRO:HG2	2.15	0.47
3:Ax:108:THR:HG23	3:Ax:111:TYR:CE2	2.49	0.47
4:Az:79:LEU:HA	4:Az:85:LEU:HD22	1.95	0.47
4:Az:85:LEU:O	4:Az:86:LYS:C	2.56	0.47
4:Az:92:LEU:O	4:Az:93:GLN:C	2.58	0.47
4:Az:123:ARG:HE	8:C0:214:LEU:HD22	1.79	0.47
6:B1:60:GLU:HB2	6:B1:63:SER:HB3	1.96	0.47
6:B1:68:SER:HA	5:Cz:83:MET:CE	2.45	0.47
4:B2:51:VAL:HG22	4:B2:51:VAL:O	2.15	0.47
4:B3:2:LYS:HD3	4:B3:8:GLU:OE1	2.13	0.47
7:B4:31:ILE:O	7:B4:32:LYS:C	2.58	0.47
5:B5:111:PHE:HB3	5:B5:143:ILE:HG23	1.96	0.47
6:B6:53:PHE:HB2	6:B6:58:ILE:CG2	2.45	0.47
6:B6:118:ALA:O	6:B6:122:VAL:HG23	2.15	0.47
4:BA:119:ALA:HB1	9:CD:80:LEU:HD22	1.96	0.47
5:BC:36:LEU:HD22	5:CB:128:THR:HB	1.97	0.47
5:BC:101:HIS:CD2	5:BC:111:PHE:HZ	2.32	0.47
5:BC:110:PHE:O	5:BC:113:ILE:HB	2.15	0.47
6:BD:145:ARG:CA	6:BD:148:LYS:HB2	2.44	0.47
4:BE:51:VAL:HG22	4:BE:51:VAL:O	2.14	0.47
6:BI:108:THR:HG23	6:BI:111:TYR:CE2	2.50	0.47
4:BK:79:LEU:HA	4:BK:85:LEU:HD13	1.95	0.47
7:BL:31:ILE:O	7:BL:32:LYS:C	2.58	0.47
5:BM:11:VAL:H	5:BM:11:VAL:HG23	1.19	0.47
6:BN:60:GLU:HB2	6:BN:63:SER:HB3	1.96	0.47
6:BN:68:SER:HA	5:CL:83:MET:CE	2.45	0.47
6:BN:150:LEU:HB3	6:BN:151:PRO:HD3	1.96	0.47
4:BO:79:LEU:HD12	4:BO:80:ASP:N	2.29	0.47
6:BS:19:TRP:CE2	6:BS:81:ILE:HD12	2.50	0.47
6:BS:132:VAL:HG13	6:BS:133:ASP:N	2.28	0.47
4:BT:76:ILE:HA	4:BT:79:LEU:CD2	2.27	0.47
5:BW:101:HIS:CD2	5:BW:111:PHE:HZ	2.32	0.47
6:BX:60:GLU:HB2	6:BX:63:SER:HB3	1.96	0.47
6:BX:118:ALA:O	6:BX:122:VAL:HG23	2.15	0.47
4:BY:51:VAL:HG22	4:BY:51:VAL:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Ba:31:ILE:O	7:Ba:32:LYS:C	2.58	0.47
5:Bb:101:HIS:CD2	5:Bb:111:PHE:HZ	2.32	0.47
6:Bc:15:ILE:C	6:Bc:17:HIS:H	2.22	0.47
6:Bc:118:ALA:O	6:Bc:122:VAL:HG23	2.15	0.47
7:Bf:32:LYS:HG2	7:Bf:75:LEU:HD12	1.96	0.47
5:Bg:110:PHE:O	5:Bg:113:ILE:HB	2.15	0.47
4:Bi:51:VAL:HG22	4:Bi:51:VAL:O	2.14	0.47
7:Bk:70:HIS:O	7:Bk:74:ILE:HG22	2.14	0.47
6:Bm:108:THR:HG23	6:Bm:111:TYR:CE2	2.50	0.47
4:Bo:28:ALA:O	4:Bo:29:PHE:C	2.57	0.47
4:Bo:85:LEU:O	4:Bo:86:LYS:C	2.57	0.47
7:Bp:31:ILE:O	7:Bp:32:LYS:C	2.58	0.47
6:Br:60:GLU:HB2	6:Br:63:SER:HB3	1.96	0.47
6:Br:150:LEU:HB3	6:Br:151:PRO:HD3	1.96	0.47
4:Bs:79:LEU:HD12	4:Bs:80:ASP:N	2.29	0.47
6:Bw:132:VAL:HG13	6:Bw:133:ASP:N	2.28	0.47
6:Bw:150:LEU:HA	6:Bw:150:LEU:HD23	1.08	0.47
8:C0:28:LEU:CD1	10:C2:24:ILE:HG13	2.44	0.47
8:C0:81:LEU:H	8:C0:81:LEU:HG	1.59	0.47
8:C0:182:PRO:CD	8:C0:211:PRO:HG3	2.45	0.47
9:C1:57:ILE:CB	10:C2:57:LEU:HD12	2.43	0.47
9:C1:62:CYS:SG	9:C1:68:GLN:HB2	2.55	0.47
9:C1:140:PHE:HB2	9:C1:141:PHE:CA	2.40	0.47
9:C1:215:LEU:O	9:C1:215:LEU:HD23	2.14	0.47
8:C5:30:ASP:O	8:C5:30:ASP:OD1	2.32	0.47
8:C5:152:SER:HA	8:C5:163:SER:O	2.15	0.47
8:CC:21:ILE:H	10:CE:20:ARG:NH1	2.12	0.47
8:CC:28:LEU:O	8:CC:31:ILE:HB	2.14	0.47
10:CE:140:PRO:HA	10:CE:171:PHE:CD2	2.49	0.47
7:CF:88:PRO:N	7:CF:89:PRO:HD2	2.30	0.47
8:CH:30:ASP:OD1	8:CH:30:ASP:O	2.32	0.47
8:CH:78:HIS:CE1	8:CH:80:LEU:HB2	2.49	0.47
8:CH:117:TRP:CD1	8:CH:121:GLU:CB	2.92	0.47
8:CH:182:PRO:CB	8:CH:189:GLY:HA3	2.45	0.47
9:CI:57:ILE:HD13	10:CJ:57:LEU:HB2	1.94	0.47
9:CI:133:THR:H	9:CI:149:ALA:HA	1.80	0.47
9:CI:215:LEU:HD23	9:CI:215:LEU:O	2.14	0.47
8:CM:54:ILE:HB	10:CO:53:ARG:NH1	2.29	0.47
8:CM:82:PHE:HA	8:CM:83:CYS:HA	1.65	0.47
8:CM:124:ASN:CG	8:CM:125:PRO:HD2	2.40	0.47
8:CM:210:VAL:HG13	8:CM:210:VAL:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CO:81:PHE:HD1	10:CO:81:PHE:HA	1.48	0.47
9:CS:82:VAL:HA	9:CS:88:ASP:HB2	1.96	0.47
10:CT:99:THR:HG22	10:CT:100:LEU:N	2.29	0.47
8:CW:10:PHE:CD2	10:CY:10:HIS:CA	2.95	0.47
8:CW:28:LEU:CD1	10:CY:24:ILE:HG13	2.44	0.47
8:CW:182:PRO:CD	8:CW:211:PRO:HG3	2.45	0.47
9:CX:57:ILE:CB	10:CY:57:LEU:HD12	2.43	0.47
9:CX:62:CYS:SG	9:CX:68:GLN:HB2	2.55	0.47
9:CX:140:PHE:HB2	9:CX:141:PHE:CA	2.40	0.47
10:CY:59:ASP:HA	10:CY:60:PRO:HD3	1.35	0.47
8:Cb:30:ASP:OD1	8:Cb:30:ASP:O	2.32	0.47
8:Cb:82:PHE:HA	8:Cb:83:CYS:HA	1.65	0.47
9:Cc:82:VAL:HA	9:Cc:88:ASP:HB2	1.96	0.47
9:Cc:155:LEU:HD23	9:Cc:155:LEU:H	1.79	0.47
8:Cg:21:ILE:H	10:Ci:20:ARG:NH1	2.12	0.47
8:Cg:30:ASP:O	8:Cg:30:ASP:OD1	2.32	0.47
9:Ch:18:ALA:C	9:Ch:20:LEU:H	2.22	0.47
7:Cj:88:PRO:N	7:Cj:89:PRO:HD2	2.30	0.47
8:Cl:56:ASN:HD22	8:Cl:198:LEU:HB3	1.77	0.47
8:Cl:102:LEU:HD22	8:Cl:102:LEU:HA	1.59	0.47
8:Cl:182:PRO:CB	8:Cl:189:GLY:HA3	2.45	0.47
9:Cm:133:THR:H	9:Cm:149:ALA:HA	1.80	0.47
8:Cq:28:LEU:O	8:Cq:31:ILE:HB	2.14	0.47
8:Cq:124:ASN:CG	8:Cq:125:PRO:HD2	2.40	0.47
8:Cq:210:VAL:O	8:Cq:210:VAL:HG13	2.15	0.47
9:Cr:18:ALA:C	9:Cr:20:LEU:H	2.22	0.47
8:Cv:152:SER:HA	8:Cv:163:SER:O	2.15	0.47
9:Cw:97:PRO:HA	9:Cw:100:CYS:SG	2.54	0.47
10:Cx:99:THR:HG22	10:Cx:100:LEU:N	2.29	0.47
10:Cx:197:PHE:HB3	10:Cx:199:ARG:CB	2.37	0.47
2:A1:18:LYS:CD	2:A1:85:ASP:HB2	2.45	0.47
3:A2:23:TRP:HH2	3:A2:75:ASN:CA	2.27	0.47
3:A3:108:THR:HG23	3:A3:111:TYR:CE2	2.50	0.47
1:A5:37:ARG:HH22	1:A5:63:GLU:HB3	1.79	0.47
2:A6:18:LYS:CD	2:A6:85:ASP:HB2	2.45	0.47
3:A7:132:VAL:HG13	3:A7:133:ASP:N	2.30	0.47
2:AI:14:SER:OG	2:AI:15:LEU:N	2.47	0.47
2:AN:83:MET:HG2	2:AN:93:GLN:CB	2.44	0.47
2:AN:110:PHE:O	2:AN:113:ILE:HB	2.15	0.47
1:AR:87:ASP:OD1	1:AR:89:PRO:HG2	2.15	0.47
3:AU:142:LEU:O	3:AU:146:ILE:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AX:18:LYS:CD	2:AX:85:ASP:HB2	2.45	0.47
2:AX:97:LEU:HB3	2:AX:146:ILE:HG23	1.97	0.47
3:AY:23:TRP:HH2	3:AY:75:ASN:CA	2.27	0.47
3:AZ:19:TRP:C	3:AZ:21:ASP:H	2.23	0.47
3:AZ:79:LEU:HD13	3:AZ:79:LEU:O	2.14	0.47
3:AZ:108:THR:HG23	3:AZ:111:TYR:CE2	2.50	0.47
3:Ai:132:VAL:HG13	3:Ai:133:ASP:N	2.30	0.47
3:Aj:19:TRP:C	3:Aj:21:ASP:H	2.23	0.47
3:An:108:THR:H	3:An:111:TYR:HD2	1.63	0.47
3:Ao:19:TRP:C	3:Ao:21:ASP:H	2.23	0.47
2:Ar:18:LYS:HD2	2:Ar:85:ASP:HB2	1.97	0.47
2:Ar:110:PHE:O	2:Ar:113:ILE:HB	2.15	0.47
3:At:18:ILE:HG21	3:At:130:PHE:HD1	1.77	0.47
3:At:19:TRP:C	3:At:21:ASP:H	2.23	0.47
5:B0:84:LEU:HD12	5:B0:85:ASP:H	1.79	0.47
6:B1:53:PHE:HB2	6:B1:58:ILE:CG2	2.45	0.47
6:B1:118:ALA:O	6:B1:122:VAL:HG23	2.15	0.47
4:B3:85:LEU:O	4:B3:86:LYS:C	2.57	0.47
5:B5:101:HIS:CD2	5:B5:111:PHE:HZ	2.32	0.47
6:BD:71:VAL:CG2	5:CB:89:MET:HE1	2.45	0.47
7:BG:31:ILE:O	7:BG:32:LYS:C	2.58	0.47
4:BJ:28:ALA:O	4:BJ:29:PHE:C	2.58	0.47
4:BK:28:ALA:O	4:BK:29:PHE:C	2.57	0.47
4:BK:119:ALA:HB1	9:CN:80:LEU:HD22	1.96	0.47
7:BL:48:PRO:O	7:BL:50:VAL:N	2.48	0.47
5:BM:36:LEU:HD22	5:CL:128:THR:HB	1.97	0.47
4:BP:120:GLN:HG2	9:CS:80:LEU:CD1	2.31	0.47
6:BS:60:GLU:HB2	6:BS:63:SER:HB3	1.96	0.47
6:BS:71:VAL:CG2	5:CQ:89:MET:HE1	2.45	0.47
6:BS:150:LEU:HA	6:BS:150:LEU:HD23	1.08	0.47
7:BV:72:LEU:O	7:BV:73:ARG:C	2.58	0.47
5:BW:84:LEU:HD12	5:BW:85:ASP:H	1.79	0.47
6:BX:79:LEU:HD13	6:BX:79:LEU:C	2.40	0.47
4:BZ:85:LEU:O	4:BZ:86:LYS:C	2.57	0.47
5:Bb:84:LEU:HD12	5:Bb:85:ASP:H	1.79	0.47
5:Bb:111:PHE:HB3	5:Bb:143:ILE:HG23	1.96	0.47
6:Bc:53:PHE:HB2	6:Bc:58:ILE:CG2	2.45	0.47
6:Bc:71:VAL:CG2	5:Ca:89:MET:HE1	2.45	0.47
4:Be:119:ALA:HB1	9:Ch:80:LEU:HD22	1.96	0.47
6:Bh:71:VAL:CG2	5:Cf:89:MET:HE1	2.45	0.47
4:Bn:28:ALA:O	4:Bn:29:PHE:C	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bo:119:ALA:HB1	9:Cr:80:LEU:HD22	1.96	0.47
7:Bp:48:PRO:O	7:Bp:50:VAL:N	2.48	0.47
5:Bq:111:PHE:HB3	5:Bq:143:ILE:HG23	1.96	0.47
4:Bt:79:LEU:HA	4:Bt:85:LEU:HD13	1.95	0.47
5:Bv:107:LYS:HA	5:Bv:108:PRO:HD3	1.61	0.47
6:Bw:19:TRP:CE2	6:Bw:81:ILE:HD12	2.50	0.47
6:Bw:60:GLU:HB2	6:Bw:63:SER:HB3	1.96	0.47
6:Bw:71:VAL:CG2	5:Cu:89:MET:HE1	2.45	0.47
7:Bz:72:LEU:O	7:Bz:73:ARG:C	2.58	0.47
8:C0:44:LYS:HE3	10:C2:46:LYS:HZ2	1.72	0.47
8:C0:176:ARG:HB3	8:C0:196:PHE:CB	2.45	0.47
10:C2:179:HIS:HA	10:C2:180:PRO:HD3	1.57	0.47
8:C5:108:GLY:HA2	8:C5:132:ILE:O	2.14	0.47
9:C6:155:LEU:HD23	9:C6:155:LEU:H	1.79	0.47
7:CA:88:PRO:N	7:CA:89:PRO:HD2	2.30	0.47
8:CC:30:ASP:O	8:CC:30:ASP:OD1	2.32	0.47
9:CD:62:CYS:SG	9:CD:68:GLN:HB2	2.54	0.47
9:CI:38:ALA:HB3	10:CJ:35:LEU:HD11	1.87	0.47
5:CL:51:ALA:HB3	5:CL:52:PRO:HD3	1.97	0.47
8:CM:28:LEU:CD1	10:CO:27:SER:HB3	2.23	0.47
9:CN:155:LEU:H	9:CN:155:LEU:HD23	1.79	0.47
8:CR:152:SER:HA	8:CR:163:SER:O	2.15	0.47
9:CS:97:PRO:HA	9:CS:100:CYS:SG	2.54	0.47
9:CS:208:HIS:HA	9:CS:219:ALA:O	2.15	0.47
7:CU:12:HIS:HB2	7:CU:85:LEU:HD13	1.97	0.47
7:CU:88:PRO:N	7:CU:89:PRO:HD2	2.30	0.47
8:CW:44:LYS:HE3	10:CY:46:LYS:HZ2	1.72	0.47
8:CW:176:ARG:HB3	8:CW:196:PHE:CB	2.45	0.47
9:Cc:46:PHE:HZ	10:Cd:47:ALA:C	2.21	0.47
8:Cg:82:PHE:HA	8:Cg:83:CYS:HA	1.65	0.47
5:Ck:14:SER:OG	5:Ck:15:LEU:N	2.45	0.47
8:Cl:78:HIS:CE1	8:Cl:80:LEU:HB2	2.49	0.47
8:Cq:54:ILE:HB	10:Cs:53:ARG:NH1	2.29	0.47
8:Cq:152:SER:HA	8:Cq:163:SER:O	2.15	0.47
8:Cv:28:LEU:CG	10:Cx:27:SER:HB3	2.44	0.47
8:Cv:176:ARG:HB3	8:Cv:176:ARG:HE	1.54	0.47
9:Cw:208:HIS:HA	9:Cw:219:ALA:O	2.15	0.47
7:Cy:88:PRO:N	7:Cy:89:PRO:HD2	2.30	0.47
2:A1:97:LEU:HB3	2:A1:146:ILE:HG23	1.97	0.47
3:A3:19:TRP:C	3:A3:21:ASP:H	2.23	0.47
2:AD:51:ALA:HB3	2:AD:52:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AE:132:VAL:HG13	3:AE:133:ASP:N	2.30	0.47
3:AF:19:TRP:C	3:AF:21:ASP:H	2.23	0.47
4:AG:64:HIS:O	4:AG:68:VAL:HG23	2.15	0.47
3:AJ:108:THR:H	3:AJ:111:TYR:HD2	1.63	0.47
3:AK:19:TRP:C	3:AK:21:ASP:H	2.23	0.47
3:AO:102:ILE:CG1	3:AO:150:LEU:HA	2.28	0.47
3:AT:23:TRP:HH2	3:AT:75:ASN:CA	2.27	0.47
2:AX:110:PHE:O	2:AX:113:ILE:HB	2.15	0.47
3:Ad:132:VAL:HG13	3:Ad:133:ASP:N	2.30	0.47
3:Ae:127:LEU:HD23	3:Ae:127:LEU:N	2.29	0.47
2:Ah:51:ALA:HB3	2:Ah:52:PRO:HD3	1.97	0.47
3:Aj:127:LEU:HD23	3:Aj:127:LEU:N	2.29	0.47
2:Am:14:SER:OG	2:Am:15:LEU:N	2.47	0.47
3:An:132:VAL:HG13	3:An:133:ASP:N	2.30	0.47
3:Ao:60:GLU:HB2	3:Ao:63:SER:HB3	1.96	0.47
2:Ar:83:MET:HG2	2:Ar:93:GLN:CB	2.44	0.47
3:Ax:23:TRP:HH2	3:Ax:75:ASN:CA	2.27	0.47
3:Ay:142:LEU:O	3:Ay:146:ILE:HG13	2.14	0.47
6:B1:79:LEU:HD13	6:B1:79:LEU:C	2.40	0.47
6:B1:150:LEU:HA	6:B1:150:LEU:HD23	1.08	0.47
4:B2:79:LEU:HB2	4:B2:85:LEU:HD22	1.97	0.47
7:B4:88:PRO:N	7:B4:89:PRO:HD2	2.30	0.47
5:B5:101:HIS:HD2	5:B5:111:PHE:HZ	1.62	0.47
6:B6:60:GLU:HB2	6:B6:63:SER:HB3	1.96	0.47
6:B6:71:VAL:CG2	5:C4:89:MET:HE1	2.45	0.47
6:B6:108:THR:HG23	6:B6:111:TYR:CE2	2.50	0.47
6:B6:145:ARG:CA	6:B6:148:LYS:HB2	2.44	0.47
5:BC:118:LEU:O	5:BC:122:LEU:HG	2.15	0.47
6:BI:71:VAL:CG2	5:CG:89:MET:HE1	2.45	0.47
6:BI:150:LEU:HB3	6:BI:151:PRO:HD3	1.96	0.47
4:BJ:51:VAL:HG22	4:BJ:51:VAL:O	2.15	0.47
4:BK:85:LEU:O	4:BK:86:LYS:C	2.57	0.47
5:BR:118:LEU:O	5:BR:122:LEU:HG	2.15	0.47
5:BW:111:PHE:HB3	5:BW:143:ILE:HG23	1.96	0.47
6:BX:53:PHE:HB2	6:BX:58:ILE:CG2	2.45	0.47
4:BY:79:LEU:HB2	4:BY:85:LEU:HD22	1.97	0.47
7:Ba:88:PRO:N	7:Ba:89:PRO:HD2	2.30	0.47
5:Bb:36:LEU:HD22	5:Ca:128:THR:HB	1.97	0.47
5:Bb:101:HIS:HD2	5:Bb:111:PHE:HZ	1.62	0.47
6:Bc:108:THR:HG23	6:Bc:111:TYR:CE2	2.50	0.47
5:Bg:101:HIS:CD2	5:Bg:111:PHE:HZ	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bg:118:LEU:O	5:Bg:122:LEU:HG	2.15	0.47
7:Bk:31:ILE:O	7:Bk:32:LYS:C	2.58	0.47
6:Bm:71:VAL:CG2	5:Ck:89:MET:HE1	2.45	0.47
6:Bm:150:LEU:HB3	6:Bm:151:PRO:HD3	1.96	0.47
5:Bq:36:LEU:HD22	5:Cp:128:THR:HB	1.97	0.47
5:Bv:84:LEU:HD12	5:Bv:85:ASP:H	1.79	0.47
5:Bv:110:PHE:O	5:Bv:113:ILE:HB	2.15	0.47
5:Bv:118:LEU:O	5:Bv:122:LEU:HG	2.15	0.47
4:Bx:51:VAL:HG22	4:Bx:51:VAL:O	2.14	0.47
8:C0:10:PHE:CD2	10:C2:10:HIS:CA	2.95	0.47
7:C3:88:PRO:N	7:C3:89:PRO:HD2	2.30	0.47
8:C5:176:ARG:HB3	8:C5:196:PHE:CB	2.45	0.47
9:C6:82:VAL:HA	9:C6:88:ASP:HB2	1.96	0.47
9:C6:162:VAL:CG1	9:C6:163:THR:H	2.28	0.47
9:CD:133:THR:H	9:CD:149:ALA:HA	1.80	0.47
8:CH:156:ASP:HB2	8:CH:159:ASP:HB2	1.95	0.47
8:CM:152:SER:HA	8:CM:163:SER:O	2.15	0.47
8:CR:28:LEU:CG	10:CT:27:SER:HB3	2.44	0.47
8:CW:42:VAL:CG1	9:CX:44:GLU:HA	2.44	0.47
9:CX:215:LEU:O	9:CX:215:LEU:HD23	2.14	0.47
8:Cb:56:ASN:HB2	8:Cb:198:LEU:O	2.08	0.47
9:Cc:162:VAL:CG1	9:Cc:163:THR:H	2.28	0.47
7:Ce:31:ILE:O	7:Ce:32:LYS:C	2.58	0.47
7:Ce:88:PRO:N	7:Ce:89:PRO:HD2	2.30	0.47
9:Ch:62:CYS:SG	9:Ch:68:GLN:HB2	2.54	0.47
9:Ch:133:THR:H	9:Ch:149:ALA:HA	1.80	0.47
10:Ci:140:PRO:HA	10:Ci:171:PHE:CD2	2.49	0.47
8:Cl:30:ASP:O	8:Cl:30:ASP:OD1	2.32	0.47
8:Cl:156:ASP:HB2	8:Cl:159:ASP:HB2	1.95	0.47
5:Cp:51:ALA:HB3	5:Cp:52:PRO:HD3	1.97	0.47
8:Cq:78:HIS:CE1	8:Cq:80:LEU:HB2	2.49	0.47
7:Cy:12:HIS:HB2	7:Cy:85:LEU:HD13	1.97	0.47
2:A1:110:PHE:O	2:A1:113:ILE:HB	2.15	0.47
2:A6:14:SER:OG	2:A6:15:LEU:N	2.48	0.47
3:AA:15:ILE:C	3:AA:17:HIS:H	2.23	0.47
3:AA:19:TRP:C	3:AA:21:ASP:H	2.23	0.47
3:AF:127:LEU:HD23	3:AF:127:LEU:N	2.29	0.47
2:AI:51:ALA:HB3	2:AI:52:PRO:HD3	1.97	0.47
3:AK:60:GLU:HB2	3:AK:63:SER:HB3	1.96	0.47
3:AK:79:LEU:HD13	3:AK:79:LEU:O	2.14	0.47
3:AO:19:TRP:C	3:AO:21:ASP:H	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AO:108:THR:H	3:AO:111:TYR:HD2	1.63	0.47
3:AT:28:THR:O	3:AT:29:ASP:C	2.58	0.47
3:AU:79:LEU:HD13	3:AU:79:LEU:C	2.40	0.47
2:Ac:14:SER:OG	2:Ac:15:LEU:N	2.48	0.47
2:Ac:84:LEU:CA	2:Ac:90:LEU:HD22	2.32	0.47
2:Am:51:ALA:HB3	2:Am:52:PRO:HD3	1.97	0.47
3:As:108:THR:H	3:As:111:TYR:HD2	1.63	0.47
4:Au:130:TRP:O	4:Au:131:ASP:C	2.58	0.47
3:Ay:79:LEU:HD13	3:Ay:79:LEU:C	2.40	0.47
3:Ay:102:ILE:HG12	3:Ay:150:LEU:HB3	1.96	0.47
5:B0:111:PHE:HB3	5:B0:143:ILE:HG23	1.96	0.47
4:B3:119:ALA:HB1	9:C6:80:LEU:HD22	1.96	0.47
5:B5:36:LEU:HD22	5:C4:128:THR:HB	1.97	0.47
5:B5:84:LEU:HD12	5:B5:85:ASP:H	1.79	0.47
5:B5:102:VAL:HG13	5:B5:103:GLU:N	2.30	0.47
5:B5:110:PHE:O	5:B5:113:ILE:HB	2.15	0.47
6:B6:28:THR:O	6:B6:29:ASP:C	2.56	0.47
7:BB:48:PRO:O	7:BB:50:VAL:N	2.48	0.47
5:BC:84:LEU:HD12	5:BC:85:ASP:H	1.79	0.47
6:BD:53:PHE:HB2	6:BD:58:ILE:CG2	2.44	0.47
4:BF:28:ALA:O	4:BF:29:PHE:C	2.58	0.47
6:BI:19:TRP:CE2	6:BI:81:ILE:HD12	2.50	0.47
5:BM:111:PHE:HB3	5:BM:143:ILE:HG23	1.96	0.47
4:BP:79:LEU:HA	4:BP:85:LEU:HD13	1.95	0.47
5:BR:84:LEU:HD12	5:BR:85:ASP:H	1.79	0.47
5:BR:110:PHE:O	5:BR:113:ILE:HB	2.15	0.47
6:BX:108:THR:HG23	6:BX:111:TYR:CE2	2.50	0.47
5:Bb:102:VAL:HG13	5:Bb:103:GLU:N	2.30	0.47
6:Bc:28:THR:O	6:Bc:29:ASP:C	2.56	0.47
6:Bc:60:GLU:HB2	6:Bc:63:SER:HB3	1.96	0.47
6:Bc:145:ARG:CA	6:Bc:148:LYS:HB2	2.44	0.47
4:Bd:79:LEU:HB2	4:Bd:85:LEU:HD22	1.97	0.47
7:Bf:31:ILE:O	7:Bf:32:LYS:C	2.58	0.47
6:Bh:53:PHE:HB2	6:Bh:58:ILE:CG2	2.44	0.47
6:Bh:60:GLU:HB2	6:Bh:63:SER:HB3	1.96	0.47
6:Bh:68:SER:HA	5:Cf:83:MET:CE	2.45	0.47
6:Bh:150:LEU:HA	6:Bh:150:LEU:HD23	1.08	0.47
7:Bp:32:LYS:HG2	7:Bp:75:LEU:HD12	1.96	0.47
8:C0:12:TYR:HB3	8:C0:13:LEU:H	1.32	0.47
8:C0:42:VAL:CG1	9:C1:44:GLU:HA	2.44	0.47
8:C0:124:ASN:CG	8:C0:125:PRO:HD2	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C3:151:LEU:HD23	7:C3:151:LEU:HA	1.75	0.47
8:C5:82:PHE:HA	8:C5:83:CYS:HA	1.65	0.47
9:C6:46:PHE:HZ	10:C7:47:ALA:C	2.21	0.47
9:C6:57:ILE:CB	10:C7:57:LEU:HD12	2.43	0.47
7:CA:31:ILE:O	7:CA:32:LYS:C	2.58	0.47
8:CC:156:ASP:HB2	8:CC:159:ASP:HB2	1.95	0.47
9:CD:16:ALA:C	9:CD:18:ALA:N	2.68	0.47
9:CD:208:HIS:HA	9:CD:219:ALA:O	2.15	0.47
5:CG:14:SER:OG	5:CG:15:LEU:N	2.45	0.47
8:CH:56:ASN:HD22	8:CH:198:LEU:HB3	1.77	0.47
8:CM:78:HIS:CE1	8:CM:80:LEU:HB2	2.49	0.47
8:CR:78:HIS:CE1	8:CR:80:LEU:HB2	2.49	0.47
8:CR:172:ASN:HB3	8:CR:175:LYS:HB3	1.97	0.47
8:CR:190:TYR:CE1	8:CR:217:CYS:SG	3.08	0.47
9:CS:155:LEU:HD23	9:CS:155:LEU:H	1.79	0.47
8:CW:124:ASN:CG	8:CW:125:PRO:HD2	2.40	0.47
10:CY:169:TYR:CE1	10:CY:174:HIS:HA	2.48	0.47
8:Cb:108:GLY:HA2	8:Cb:132:ILE:O	2.14	0.47
8:Cb:176:ARG:HB3	8:Cb:196:PHE:CB	2.45	0.47
10:Cd:99:THR:HG22	10:Cd:100:LEU:N	2.29	0.47
9:Ch:16:ALA:C	9:Ch:18:ALA:N	2.68	0.47
8:Cl:44:LYS:HE3	10:Cn:46:LYS:HZ2	1.75	0.47
8:Cq:190:TYR:CE1	8:Cq:217:CYS:SG	3.08	0.47
9:Cr:155:LEU:HD23	9:Cr:155:LEU:H	1.79	0.47
9:Cr:208:HIS:HA	9:Cr:219:ALA:O	2.15	0.47
8:Cv:190:TYR:CE1	8:Cv:217:CYS:SG	3.08	0.47
10:Cx:169:TYR:CE1	10:Cx:174:HIS:HA	2.49	0.47
2:A1:73:VAL:O	2:A1:74:LEU:C	2.59	0.46
3:AA:18:ILE:HG21	3:AA:130:PHE:HD1	1.77	0.46
4:AG:79:LEU:CD1	4:AG:85:LEU:HD22	2.44	0.46
2:AI:83:MET:HG2	2:AI:93:GLN:CB	2.44	0.46
3:AJ:132:VAL:HG13	3:AJ:133:ASP:N	2.30	0.46
4:AL:130:TRP:O	4:AL:131:ASP:C	2.58	0.46
3:AO:79:LEU:HD13	3:AO:79:LEU:O	2.16	0.46
3:AP:150:LEU:HD23	3:AP:150:LEU:N	2.24	0.46
4:AQ:28:ALA:O	4:AQ:29:PHE:C	2.56	0.46
4:AQ:130:TRP:O	4:AQ:131:ASP:C	2.58	0.46
3:AU:96:HIS:O	3:AU:100:GLN:HG3	2.14	0.46
3:AU:102:ILE:HG12	3:AU:150:LEU:HB3	1.96	0.46
2:AX:73:VAL:O	2:AX:74:LEU:C	2.59	0.46
3:AZ:53:PHE:HB2	3:AZ:58:ILE:CG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:37:ARG:HH22	1:Ab:63:GLU:HB3	1.79	0.46
3:Ae:15:ILE:C	3:Ae:17:HIS:H	2.23	0.46
2:Ah:97:LEU:HB3	2:Ah:146:ILE:HG23	1.97	0.46
2:Ah:110:PHE:O	2:Ah:113:ILE:HB	2.15	0.46
3:Ao:96:HIS:O	3:Ao:100:GLN:HG3	2.14	0.46
3:As:19:TRP:C	3:As:21:ASP:H	2.23	0.46
3:As:79:LEU:HD13	3:As:79:LEU:O	2.16	0.46
3:At:53:PHE:HB2	3:At:58:ILE:CG2	2.45	0.46
3:At:96:HIS:O	3:At:100:GLN:HG3	2.14	0.46
4:Au:123:ARG:HE	8:Cv:214:LEU:HD22	1.79	0.46
3:Ax:28:THR:O	3:Ax:29:ASP:C	2.58	0.46
5:B0:36:LEU:HD22	5:Cz:128:THR:HB	1.97	0.46
6:B1:19:TRP:C	6:B1:21:ASP:H	2.24	0.46
6:B1:108:THR:HG23	6:B1:111:TYR:CE2	2.50	0.46
4:B2:59:PRO:HB2	7:Cy:89:PRO:HB2	1.98	0.46
5:B5:11:VAL:H	5:B5:11:VAL:HG23	1.19	0.46
4:B7:79:LEU:HB2	4:B7:85:LEU:HD22	1.97	0.46
7:BB:31:ILE:O	7:BB:32:LYS:C	2.58	0.46
7:BB:70:HIS:O	7:BB:74:ILE:HG22	2.14	0.46
6:BD:68:SER:HA	5:CB:83:MET:CE	2.45	0.46
4:BF:120:GLN:HG2	9:CI:80:LEU:CD1	2.31	0.46
7:BG:37:ARG:HH22	7:BG:63:GLU:HB3	1.79	0.46
6:BI:19:TRP:C	6:BI:21:ASP:H	2.24	0.46
7:BL:32:LYS:HG2	7:BL:75:LEU:HD12	1.96	0.46
7:BQ:48:PRO:O	7:BQ:50:VAL:N	2.48	0.46
5:BR:111:PHE:HB3	5:BR:143:ILE:HG23	1.96	0.46
6:BS:81:ILE:C	6:BS:83:LEU:H	2.24	0.46
4:BT:51:VAL:HG22	4:BT:51:VAL:O	2.14	0.46
5:BW:102:VAL:HG13	5:BW:103:GLU:N	2.30	0.46
6:BX:19:TRP:C	6:BX:21:ASP:H	2.24	0.46
6:BX:150:LEU:HA	6:BX:150:LEU:HD23	1.08	0.46
4:BY:59:PRO:HB2	7:CU:89:PRO:HB2	1.98	0.46
4:BZ:119:ALA:HB1	9:Cc:80:LEU:HD22	1.96	0.46
7:Ba:72:LEU:O	7:Ba:73:ARG:C	2.58	0.46
7:Bf:48:PRO:O	7:Bf:50:VAL:N	2.48	0.46
6:Bh:19:TRP:CE2	6:Bh:81:ILE:HD12	2.50	0.46
6:Bh:108:THR:HG23	6:Bh:111:TYR:CE2	2.50	0.46
4:Bj:28:ALA:O	4:Bj:29:PHE:C	2.58	0.46
6:Bm:19:TRP:CE2	6:Bm:81:ILE:HD12	2.50	0.46
6:Bm:19:TRP:C	6:Bm:21:ASP:H	2.24	0.46
4:Bn:51:VAL:HG22	4:Bn:51:VAL:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Br:19:TRP:CE2	6:Br:81:ILE:HD12	2.50	0.46
6:Br:53:PHE:HB2	6:Br:58:ILE:CG2	2.45	0.46
4:Bt:28:ALA:O	4:Bt:29:PHE:C	2.58	0.46
7:Bu:48:PRO:O	7:Bu:50:VAL:N	2.48	0.46
6:Bw:81:ILE:C	6:Bw:83:LEU:H	2.24	0.46
7:Bz:48:PRO:O	7:Bz:50:VAL:N	2.48	0.46
8:CC:182:PRO:CB	8:CC:189:GLY:HA3	2.45	0.46
9:CD:18:ALA:C	9:CD:20:LEU:H	2.22	0.46
8:CH:35:TYR:OH	10:CJ:34:LEU:HB3	2.15	0.46
8:CH:176:ARG:HB3	8:CH:196:PHE:CB	2.45	0.46
8:CM:30:ASP:O	8:CM:30:ASP:OD1	2.32	0.46
8:CM:176:ARG:HB3	8:CM:196:PHE:CG	2.50	0.46
9:CN:208:HIS:HA	9:CN:219:ALA:O	2.15	0.46
9:CS:96:ASP:HA	9:CS:97:PRO:HD3	1.49	0.46
10:CT:169:TYR:CE1	10:CT:174:HIS:HA	2.49	0.46
7:CU:31:ILE:O	7:CU:32:LYS:C	2.58	0.46
8:CW:81:LEU:H	8:CW:81:LEU:HG	1.59	0.46
10:CY:17:LEU:HD12	10:CY:17:LEU:C	2.40	0.46
7:CZ:88:PRO:N	7:CZ:89:PRO:HD2	2.30	0.46
8:Cb:34:GLU:HA	8:Cb:37:LYS:CE	2.45	0.46
8:Cb:124:ASN:CG	8:Cb:125:PRO:HD2	2.40	0.46
8:Cg:156:ASP:HB2	8:Cg:159:ASP:HB2	1.95	0.46
8:Cl:176:ARG:HB3	8:Cl:196:PHE:CB	2.45	0.46
8:Cq:30:ASP:OD1	8:Cq:30:ASP:O	2.32	0.46
8:Cq:176:ARG:HB3	8:Cq:196:PHE:CG	2.50	0.46
8:Cq:182:PRO:CB	8:Cq:189:GLY:HA3	2.45	0.46
10:Cs:81:PHE:HD1	10:Cs:81:PHE:HA	1.48	0.46
8:Cv:18:ASN:C	10:Cx:20:ARG:NH1	2.67	0.46
8:Cv:78:HIS:CE1	8:Cv:80:LEU:HB2	2.49	0.46
8:Cv:172:ASN:HB3	8:Cv:175:LYS:HB3	1.97	0.46
3:A3:53:PHE:HB2	3:A3:58:ILE:CG2	2.45	0.46
3:A3:79:LEU:HD13	3:A3:79:LEU:C	2.40	0.46
3:A7:144:ALA:O	3:A7:148:LYS:HG2	2.14	0.46
3:AA:108:THR:HG23	3:AA:111:TYR:CE2	2.50	0.46
2:AD:83:MET:HG2	2:AD:93:GLN:CB	2.44	0.46
2:AD:97:LEU:HB3	2:AD:146:ILE:HG23	1.97	0.46
2:AD:110:PHE:O	2:AD:113:ILE:HB	2.15	0.46
1:AH:87:ASP:OD1	1:AH:89:PRO:HG2	2.15	0.46
2:AI:147:LYS:HE2	2:AI:147:LYS:HB3	1.49	0.46
3:AJ:53:PHE:HB2	3:AJ:58:ILE:CG2	2.44	0.46
3:AK:96:HIS:O	3:AK:100:GLN:HG3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AO:132:VAL:HG13	3:AO:133:ASP:N	2.30	0.46
3:AP:53:PHE:HB2	3:AP:58:ILE:CG2	2.45	0.46
3:AP:96:HIS:O	3:AP:100:GLN:HG3	2.14	0.46
2:AS:97:LEU:HB3	2:AS:146:ILE:HG23	1.97	0.46
3:AT:19:TRP:C	3:AT:21:ASP:H	2.23	0.46
4:AV:130:TRP:O	4:AV:131:ASP:C	2.58	0.46
3:AZ:79:LEU:HD13	3:AZ:79:LEU:C	2.40	0.46
3:Ae:19:TRP:C	3:Ae:21:ASP:H	2.23	0.46
3:Ae:108:THR:HG23	3:Ae:111:TYR:CE2	2.50	0.46
4:Af:28:ALA:O	4:Af:29:PHE:C	2.56	0.46
4:Ak:79:LEU:CD1	4:Ak:85:LEU:HD22	2.44	0.46
1:Al:87:ASP:OD1	1:Al:89:PRO:HG2	2.15	0.46
2:Am:83:MET:HG2	2:Am:93:GLN:CB	2.44	0.46
3:An:53:PHE:HB2	3:An:58:ILE:CG2	2.44	0.46
3:An:79:LEU:HD13	3:An:79:LEU:O	2.16	0.46
3:Ao:79:LEU:HD13	3:Ao:79:LEU:O	2.14	0.46
4:Ap:130:TRP:O	4:Ap:131:ASP:C	2.58	0.46
1:Aq:87:ASP:OD1	1:Aq:89:PRO:HG2	2.15	0.46
3:As:28:THR:O	3:As:29:ASP:C	2.58	0.46
4:Au:123:ARG:HD2	8:Cv:179:LEU:CD1	2.42	0.46
3:Ay:96:HIS:O	3:Ay:100:GLN:HG3	2.14	0.46
4:Az:130:TRP:O	4:Az:131:ASP:C	2.58	0.46
5:B0:102:VAL:HG13	5:B0:103:GLU:N	2.30	0.46
6:B1:19:TRP:CE2	6:B1:81:ILE:HD12	2.50	0.46
7:B4:72:LEU:O	7:B4:73:ARG:C	2.58	0.46
6:BD:19:TRP:CE2	6:BD:81:ILE:HD12	2.50	0.46
6:BD:60:GLU:HB2	6:BD:63:SER:HB3	1.96	0.46
6:BD:81:ILE:C	6:BD:83:LEU:H	2.24	0.46
4:BJ:79:LEU:HD12	4:BJ:80:ASP:N	2.29	0.46
6:BN:19:TRP:CE2	6:BN:81:ILE:HD12	2.50	0.46
6:BN:53:PHE:HB2	6:BN:58:ILE:CG2	2.45	0.46
4:BP:28:ALA:O	4:BP:29:PHE:C	2.58	0.46
5:BR:107:LYS:HA	5:BR:108:PRO:HD3	1.61	0.46
4:BT:28:ALA:O	4:BT:29:PHE:C	2.58	0.46
7:BV:31:ILE:O	7:BV:32:LYS:C	2.58	0.46
7:BV:48:PRO:O	7:BV:50:VAL:N	2.48	0.46
7:BV:88:PRO:N	7:BV:89:PRO:HD2	2.30	0.46
5:BW:118:LEU:O	5:BW:122:LEU:HG	2.15	0.46
5:Bb:110:PHE:O	5:Bb:113:ILE:HB	2.15	0.46
6:Bc:68:SER:HA	5:Ca:83:MET:CE	2.45	0.46
7:Bf:70:HIS:O	7:Bf:74:ILE:HG22	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bg:84:LEU:HD12	5:Bg:85:ASP:H	1.79	0.46
6:Bh:81:ILE:C	6:Bh:83:LEU:H	2.24	0.46
6:Bh:118:ALA:O	6:Bh:122:VAL:HG23	2.15	0.46
7:Bk:37:ARG:HH22	7:Bk:63:GLU:HB3	1.79	0.46
7:Bk:48:PRO:O	7:Bk:50:VAL:N	2.48	0.46
5:Bv:111:PHE:HB3	5:Bv:143:ILE:HG23	1.96	0.46
7:Bz:31:ILE:O	7:Bz:32:LYS:C	2.58	0.46
7:Bz:88:PRO:N	7:Bz:89:PRO:HD2	2.30	0.46
8:C0:102:LEU:HD22	8:C0:102:LEU:HA	1.59	0.46
10:C2:17:LEU:HD12	10:C2:17:LEU:C	2.40	0.46
10:C2:169:TYR:CE1	10:C2:174:HIS:HA	2.48	0.46
5:C4:103:GLU:HB2	5:C4:104:ARG:HD3	1.97	0.46
8:C5:21:ILE:H	10:C7:20:ARG:NH1	2.12	0.46
8:C5:34:GLU:HA	8:C5:37:LYS:CE	2.45	0.46
8:C5:124:ASN:CG	8:C5:125:PRO:HD2	2.40	0.46
8:C5:182:PRO:HB2	8:C5:186:GLN:NE2	2.31	0.46
10:C7:99:THR:HG22	10:C7:100:LEU:N	2.29	0.46
9:CD:162:VAL:CG1	9:CD:163:THR:H	2.28	0.46
10:CE:83:CYS:HB2	10:CE:139:THR:HB	1.98	0.46
8:CH:14:VAL:HB	10:CJ:13:ILE:HD13	1.97	0.46
8:CM:35:TYR:OH	10:CO:34:LEU:HB3	2.15	0.46
8:CM:172:ASN:HB3	8:CM:175:LYS:HB3	1.97	0.46
8:CM:190:TYR:CE1	8:CM:217:CYS:SG	3.08	0.46
9:CN:14:LEU:N	9:CN:14:LEU:HD22	2.31	0.46
9:CN:133:THR:H	9:CN:149:ALA:HA	1.80	0.46
7:CP:12:HIS:HB2	7:CP:85:LEU:HD13	1.97	0.46
8:CR:28:LEU:O	8:CR:31:ILE:HB	2.14	0.46
8:CR:82:PHE:HA	8:CR:83:CYS:HA	1.65	0.46
10:CT:93:GLU:C	10:CT:95:GLU:N	2.73	0.46
9:CX:208:HIS:HA	9:CX:219:ALA:O	2.15	0.46
5:Ca:103:GLU:HB2	5:Ca:104:ARG:HD3	1.97	0.46
8:Cb:10:PHE:CD2	10:Cd:10:HIS:CA	2.95	0.46
8:Cb:182:PRO:HB2	8:Cb:186:GLN:NE2	2.31	0.46
9:Cc:57:ILE:CB	10:Cd:57:LEU:HD12	2.43	0.46
8:Cg:182:PRO:CB	8:Cg:189:GLY:HA3	2.45	0.46
9:Ch:57:ILE:HD11	10:Ci:54:VAL:CA	2.45	0.46
9:Ch:162:VAL:CG1	9:Ch:163:THR:H	2.28	0.46
9:Ch:208:HIS:HA	9:Ch:219:ALA:O	2.15	0.46
10:Ci:83:CYS:HB2	10:Ci:139:THR:HB	1.98	0.46
8:Cl:28:LEU:O	8:Cl:31:ILE:HB	2.14	0.46
9:Cm:38:ALA:HB3	10:Cn:35:LEU:HD11	1.87	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cq:35:TYR:OH	10:Cs:34:LEU:HB3	2.15	0.46
8:Cq:172:ASN:HB3	8:Cq:175:LYS:HB3	1.97	0.46
9:Cr:14:LEU:HD22	9:Cr:14:LEU:N	2.31	0.46
9:Cr:133:THR:H	9:Cr:149:ALA:HA	1.80	0.46
9:Cw:155:LEU:HD23	9:Cw:155:LEU:H	1.79	0.46
7:Cy:31:ILE:O	7:Cy:32:LYS:C	2.58	0.46
3:A2:96:HIS:O	3:A2:100:GLN:HG3	2.16	0.46
2:A6:73:VAL:O	2:A6:74:LEU:C	2.59	0.46
3:A7:96:HIS:O	3:A7:100:GLN:HG3	2.16	0.46
4:AB:28:ALA:O	4:AB:29:PHE:C	2.56	0.46
1:AC:12:HIS:HB2	1:AC:85:LEU:HD13	1.98	0.46
2:AD:73:VAL:O	2:AD:74:LEU:C	2.59	0.46
3:AE:79:LEU:HD13	3:AE:79:LEU:O	2.16	0.46
3:AE:108:THR:H	3:AE:111:TYR:HD2	1.63	0.46
4:AG:130:TRP:O	4:AG:131:ASP:C	2.58	0.46
3:AJ:79:LEU:HD13	3:AJ:79:LEU:O	2.16	0.46
1:AM:87:ASP:OD1	1:AM:89:PRO:HG2	2.15	0.46
3:AO:28:THR:O	3:AO:29:ASP:C	2.58	0.46
3:AO:81:ILE:C	3:AO:83:LEU:H	2.24	0.46
3:AP:79:LEU:HD13	3:AP:79:LEU:O	2.14	0.46
4:AQ:123:ARG:HE	8:CR:214:LEU:HD22	1.79	0.46
3:AU:108:THR:HG23	3:AU:111:TYR:CE2	2.50	0.46
3:AY:96:HIS:O	3:AY:100:GLN:HG3	2.16	0.46
2:Ac:73:VAL:O	2:Ac:74:LEU:C	2.59	0.46
3:Ad:96:HIS:O	3:Ad:100:GLN:HG3	2.16	0.46
1:Ag:12:HIS:HB2	1:Ag:85:LEU:HD13	1.98	0.46
2:Ah:73:VAL:O	2:Ah:74:LEU:C	2.59	0.46
2:Ah:83:MET:HG2	2:Ah:93:GLN:CB	2.44	0.46
3:Ai:79:LEU:O	3:Ai:79:LEU:HD13	2.16	0.46
3:Aj:15:ILE:C	3:Aj:17:HIS:H	2.23	0.46
3:Ao:15:ILE:C	3:Ao:17:HIS:H	2.23	0.46
4:Ap:64:HIS:O	4:Ap:68:VAL:HG23	2.15	0.46
3:As:81:ILE:C	3:As:83:LEU:H	2.24	0.46
4:Au:28:ALA:O	4:Au:29:PHE:C	2.56	0.46
2:Aw:97:LEU:HB3	2:Aw:146:ILE:HG23	1.97	0.46
3:Ax:19:TRP:C	3:Ax:21:ASP:H	2.23	0.46
5:B0:118:LEU:O	5:B0:122:LEU:HG	2.15	0.46
6:B6:19:TRP:CE2	6:B6:81:ILE:HD12	2.50	0.46
6:BD:108:THR:HG23	6:BD:111:TYR:CE2	2.50	0.46
6:BD:118:ALA:O	6:BD:122:VAL:HG23	2.15	0.46
6:BD:150:LEU:HA	6:BD:150:LEU:HD23	1.08	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:48:PRO:O	7:BG:50:VAL:N	2.48	0.46
6:BN:108:THR:HG23	6:BN:111:TYR:CE2	2.50	0.46
7:BQ:31:ILE:O	7:BQ:32:LYS:C	2.58	0.46
7:BQ:72:LEU:O	7:BQ:73:ARG:C	2.58	0.46
5:BR:102:VAL:HG13	5:BR:103:GLU:N	2.30	0.46
4:BT:59:PRO:HB2	7:CP:89:PRO:HB2	1.97	0.46
4:BU:79:LEU:O	4:BU:85:LEU:HD22	2.16	0.46
5:BW:36:LEU:HD22	5:CV:128:THR:HB	1.97	0.46
6:BX:19:TRP:CE2	6:BX:81:ILE:HD12	2.50	0.46
7:Ba:48:PRO:O	7:Ba:50:VAL:N	2.48	0.46
6:Bc:19:TRP:C	6:Bc:21:ASP:H	2.24	0.46
4:Be:85:LEU:O	4:Be:86:LYS:C	2.57	0.46
4:Bi:79:LEU:HD12	4:Bi:80:ASP:N	2.29	0.46
4:Bn:79:LEU:HD12	4:Bn:80:ASP:N	2.29	0.46
4:Bo:79:LEU:O	4:Bo:85:LEU:HD22	2.16	0.46
6:Br:108:THR:HG23	6:Br:111:TYR:CE2	2.50	0.46
4:Bt:120:GLN:HG2	9:Cw:80:LEU:CD1	2.31	0.46
7:Bu:31:ILE:O	7:Bu:32:LYS:C	2.58	0.46
7:Bu:72:LEU:O	7:Bu:73:ARG:C	2.58	0.46
4:Bx:28:ALA:O	4:Bx:29:PHE:C	2.58	0.46
4:Bx:59:PRO:HB2	7:Ct:89:PRO:HB2	1.97	0.46
4:By:79:LEU:O	4:By:85:LEU:HD22	2.16	0.46
8:C0:28:LEU:O	8:C0:31:ILE:HB	2.14	0.46
8:C0:87:LYS:HB2	8:C0:87:LYS:HE2	1.66	0.46
9:C1:14:LEU:N	9:C1:14:LEU:HD22	2.31	0.46
9:C1:191:LEU:HD12	9:C1:191:LEU:H	1.81	0.46
9:C1:208:HIS:HA	9:C1:219:ALA:O	2.15	0.46
8:C5:73:VAL:HA	8:C5:74:PRO:HD3	1.71	0.46
8:C5:149:ALA:HB3	8:C5:180:LEU:HD13	1.97	0.46
8:C5:182:PRO:CB	8:C5:189:GLY:HA3	2.45	0.46
9:C6:57:ILE:HD11	10:C7:54:VAL:CA	2.45	0.46
9:C6:121:LEU:HD23	9:C6:121:LEU:HA	1.82	0.46
7:CA:12:HIS:O	7:CA:13:ARG:C	2.58	0.46
8:CC:149:ALA:HB3	8:CC:180:LEU:HD13	1.98	0.46
9:CD:57:ILE:HD11	10:CE:54:VAL:CA	2.45	0.46
10:CE:81:PHE:HD1	10:CE:81:PHE:HA	1.48	0.46
8:CH:28:LEU:O	8:CH:31:ILE:HB	2.14	0.46
8:CH:44:LYS:HE3	10:CJ:46:LYS:HZ2	1.75	0.46
8:CM:182:PRO:CB	8:CM:189:GLY:HA3	2.45	0.46
8:CR:176:ARG:HB3	8:CR:176:ARG:HE	1.54	0.46
8:CR:176:ARG:HB3	8:CR:196:PHE:CG	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CS:18:ALA:C	9:CS:20:LEU:H	2.22	0.46
7:CU:12:HIS:O	7:CU:13:ARG:C	2.58	0.46
8:CW:54:ILE:HB	10:CY:53:ARG:NH1	2.29	0.46
8:CW:73:VAL:HA	8:CW:74:PRO:HD3	1.71	0.46
9:CX:14:LEU:N	9:CX:14:LEU:HD22	2.31	0.46
9:CX:191:LEU:H	9:CX:191:LEU:HD12	1.81	0.46
7:CZ:12:HIS:HB2	7:CZ:85:LEU:HD13	1.97	0.46
8:Cb:149:ALA:HB3	8:Cb:180:LEU:HD13	1.97	0.46
8:Cb:182:PRO:CB	8:Cb:189:GLY:HA3	2.45	0.46
9:Cc:57:ILE:HD11	10:Cd:54:VAL:CA	2.45	0.46
8:Cg:56:ASN:HD22	8:Cg:198:LEU:HB3	1.77	0.46
8:Cg:149:ALA:HB3	8:Cg:180:LEU:HD13	1.98	0.46
9:Ch:123:ARG:HE	9:Ch:123:ARG:HB2	1.49	0.46
8:Cl:14:VAL:HB	10:Cn:13:ILE:HD13	1.97	0.46
7:Ct:12:HIS:HB2	7:Ct:85:LEU:HD13	1.97	0.46
8:Cv:30:ASP:O	8:Cv:30:ASP:OD1	2.32	0.46
9:Cw:18:ALA:C	9:Cw:20:LEU:H	2.22	0.46
10:Cx:93:GLU:C	10:Cx:95:GLU:N	2.73	0.46
3:AF:15:ILE:C	3:AF:17:HIS:H	2.23	0.46
3:AK:53:PHE:HB2	3:AK:58:ILE:CG2	2.45	0.46
3:AK:79:LEU:HD13	3:AK:79:LEU:C	2.40	0.46
4:AL:64:HIS:O	4:AL:68:VAL:HG23	2.15	0.46
4:AQ:123:ARG:HD2	8:CR:179:LEU:CD1	2.42	0.46
2:AS:51:ALA:HB3	2:AS:52:PRO:HD3	1.97	0.46
3:AT:79:LEU:HD13	3:AT:79:LEU:O	2.16	0.46
1:AW:87:ASP:OD1	1:AW:89:PRO:HG2	2.15	0.46
3:Ad:144:ALA:O	3:Ad:148:LYS:HG2	2.14	0.46
3:Ai:108:THR:H	3:Ai:111:TYR:HD2	1.63	0.46
4:Ak:130:TRP:O	4:Ak:131:ASP:C	2.58	0.46
3:Ao:79:LEU:HD13	3:Ao:79:LEU:C	2.40	0.46
3:As:102:ILE:CG1	3:As:150:LEU:HA	2.28	0.46
3:As:132:VAL:HG13	3:As:133:ASP:N	2.30	0.46
2:Aw:51:ALA:HB3	2:Aw:52:PRO:HD3	1.97	0.46
3:Ay:108:THR:HG23	3:Ay:111:TYR:CE2	2.50	0.46
6:B1:81:ILE:C	6:B1:83:LEU:H	2.24	0.46
4:B2:28:ALA:O	4:B2:29:PHE:C	2.58	0.46
7:B4:48:PRO:O	7:B4:50:VAL:N	2.48	0.46
6:B6:19:TRP:C	6:B6:21:ASP:H	2.24	0.46
6:B6:68:SER:HA	5:C4:83:MET:CE	2.45	0.46
4:BA:85:LEU:O	4:BA:86:LYS:C	2.57	0.46
4:BK:79:LEU:O	4:BK:85:LEU:HD22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BM:31:ARG:HB3	5:BM:71:GLN:HE22	1.80	0.46
6:BN:81:ILE:C	6:BN:83:LEU:H	2.24	0.46
5:BR:49:ILE:C	5:BR:51:ALA:N	2.73	0.46
6:BX:81:ILE:C	6:BX:83:LEU:H	2.24	0.46
4:BY:28:ALA:O	4:BY:29:PHE:C	2.58	0.46
6:Bc:19:TRP:CE2	6:Bc:81:ILE:HD12	2.50	0.46
4:Bd:59:PRO:HB2	7:CZ:89:PRO:HB2	1.98	0.46
7:Bf:88:PRO:N	7:Bf:89:PRO:HD2	2.30	0.46
4:Bn:81:GLN:H	4:Bn:81:GLN:HG3	1.48	0.46
5:Bq:11:VAL:H	5:Bq:11:VAL:HG23	1.19	0.46
6:Br:81:ILE:C	6:Br:83:LEU:H	2.24	0.46
8:C0:28:LEU:CD1	10:C2:27:SER:HB3	2.23	0.46
10:C7:17:LEU:HD12	10:C7:17:LEU:C	2.40	0.46
8:CC:152:SER:OG	8:CC:164:THR:HG23	2.16	0.46
8:CC:182:PRO:HB2	8:CC:186:GLN:NE2	2.31	0.46
8:CC:190:TYR:CE1	8:CC:217:CYS:SG	3.08	0.46
8:CC:202:ASP:OD1	8:CC:224:ARG:HD2	2.16	0.46
7:CF:99:ALA:HA	7:CF:147:ILE:O	2.16	0.46
8:CH:102:LEU:HD22	8:CH:102:LEU:HA	1.59	0.46
8:CH:124:ASN:CG	8:CH:125:PRO:HD2	2.40	0.46
8:CH:176:ARG:HB3	8:CH:196:PHE:CG	2.50	0.46
9:CI:191:LEU:H	9:CI:191:LEU:HD12	1.81	0.46
10:CJ:93:GLU:C	10:CJ:95:GLU:N	2.73	0.46
10:CO:99:THR:HG22	10:CO:100:LEU:N	2.29	0.46
7:CP:88:PRO:N	7:CP:89:PRO:HD2	2.30	0.46
8:CR:30:ASP:O	8:CR:30:ASP:OD1	2.32	0.46
8:CR:35:TYR:CE1	10:CT:34:LEU:HB2	2.48	0.46
8:CR:124:ASN:CG	8:CR:125:PRO:HD2	2.40	0.46
9:CS:14:LEU:HD22	9:CS:14:LEU:N	2.31	0.46
8:CW:28:LEU:O	8:CW:31:ILE:HB	2.14	0.46
8:CW:30:ASP:OD1	8:CW:30:ASP:O	2.32	0.46
9:CX:57:ILE:HD11	10:CY:54:VAL:CA	2.45	0.46
7:CZ:12:HIS:O	7:CZ:13:ARG:C	2.58	0.46
8:Cb:21:ILE:H	10:Cd:20:ARG:NH1	2.12	0.46
7:Ce:12:HIS:O	7:Ce:13:ARG:C	2.58	0.46
8:Cg:152:SER:OG	8:Cg:164:THR:HG23	2.16	0.46
8:Cg:202:ASP:OD1	8:Cg:224:ARG:HD2	2.16	0.46
7:Cj:99:ALA:HA	7:Cj:147:ILE:O	2.16	0.46
10:Cn:93:GLU:C	10:Cn:95:GLU:N	2.73	0.46
7:Co:151:LEU:HD23	7:Co:151:LEU:HA	1.75	0.46
5:Cu:51:ALA:HB3	5:Cu:52:PRO:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cv:28:LEU:O	8:Cv:31:ILE:HB	2.14	0.46
8:Cv:124:ASN:CG	8:Cv:125:PRO:HD2	2.40	0.46
9:Cw:14:LEU:N	9:Cw:14:LEU:HD22	2.31	0.46
7:Cy:12:HIS:O	7:Cy:13:ARG:C	2.58	0.46
5:Cz:103:GLU:HB2	5:Cz:104:ARG:HD3	1.97	0.46
4:A4:130:TRP:O	4:A4:131:ASP:C	2.58	0.46
3:AA:53:PHE:HB2	3:AA:58:ILE:CG2	2.45	0.46
4:AB:1:LYS:HZ3	4:AB:128:GLU:HA	1.81	0.46
4:AB:130:TRP:O	4:AB:131:ASP:C	2.58	0.46
3:AE:28:THR:O	3:AE:29:ASP:C	2.58	0.46
3:AE:81:ILE:C	3:AE:83:LEU:H	2.24	0.46
3:AF:79:LEU:HD13	3:AF:79:LEU:C	2.40	0.46
2:AI:111:PHE:HB3	2:AI:143:ILE:HG23	1.98	0.46
4:AQ:79:LEU:HD12	4:AQ:79:LEU:HA	1.66	0.46
2:AS:110:PHE:O	2:AS:113:ILE:HB	2.15	0.46
4:Aa:130:TRP:O	4:Aa:131:ASP:C	2.58	0.46
3:Ae:18:ILE:HG21	3:Ae:130:PHE:HD1	1.77	0.46
3:Ae:53:PHE:HB2	3:Ae:58:ILE:CG2	2.45	0.46
2:Ah:14:SER:OG	2:Ah:15:LEU:N	2.48	0.46
3:Ai:28:THR:O	3:Ai:29:ASP:C	2.58	0.46
3:Ai:81:ILE:C	3:Ai:83:LEU:H	2.24	0.46
3:Aj:79:LEU:HD13	3:Aj:79:LEU:C	2.40	0.46
2:Am:18:LYS:CD	2:Am:85:ASP:HB2	2.45	0.46
2:Am:111:PHE:HB3	2:Am:143:ILE:HG23	1.98	0.46
3:Ao:53:PHE:HB2	3:Ao:58:ILE:CG2	2.45	0.46
3:Ao:108:THR:HG23	3:Ao:111:TYR:CE2	2.50	0.46
3:At:79:LEU:HD13	3:At:79:LEU:O	2.14	0.46
3:At:150:LEU:HD23	3:At:150:LEU:N	2.24	0.46
2:Aw:18:LYS:HD2	2:Aw:85:ASP:HB2	1.97	0.46
2:Aw:73:VAL:O	2:Aw:74:LEU:C	2.59	0.46
2:Aw:84:LEU:CA	2:Aw:90:LEU:HD22	2.32	0.46
3:Ax:79:LEU:O	3:Ax:79:LEU:HD13	2.16	0.46
4:B7:59:PRO:HB2	7:C3:89:PRO:HB2	1.98	0.46
7:BB:88:PRO:N	7:BB:89:PRO:HD2	2.30	0.46
4:BE:79:LEU:HD12	4:BE:80:ASP:N	2.29	0.46
6:BN:71:VAL:CG2	5:CL:89:MET:HE1	2.45	0.46
6:BS:64:GLY:HA2	6:BS:67:LYS:HB2	1.98	0.46
4:Bd:28:ALA:O	4:Bd:29:PHE:C	2.58	0.46
5:Bg:49:ILE:C	5:Bg:51:ALA:N	2.73	0.46
6:Bm:118:ALA:O	6:Bm:122:VAL:HG23	2.15	0.46
5:Bq:31:ARG:HB3	5:Bq:71:GLN:HE22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bq:118:LEU:O	5:Bq:122:LEU:HG	2.15	0.46
5:Bv:49:ILE:C	5:Bv:51:ALA:N	2.73	0.46
5:Bv:102:VAL:HG13	5:Bv:103:GLU:N	2.30	0.46
6:Bw:64:GLY:HA2	6:Bw:67:LYS:HB2	1.98	0.46
8:C0:30:ASP:O	8:C0:30:ASP:OD1	2.32	0.46
8:C0:54:ILE:HB	10:C2:53:ARG:NH1	2.29	0.46
8:C0:73:VAL:HA	8:C0:74:PRO:HD3	1.71	0.46
8:C0:176:ARG:HB3	8:C0:196:PHE:CG	2.50	0.46
9:C1:57:ILE:HD11	10:C2:54:VAL:CA	2.45	0.46
10:C2:59:ASP:HA	10:C2:60:PRO:HD3	1.35	0.46
10:C2:99:THR:HG22	10:C2:100:LEU:N	2.29	0.46
7:C3:12:HIS:O	7:C3:13:ARG:C	2.58	0.46
7:C3:12:HIS:HB2	7:C3:85:LEU:HD13	1.97	0.46
8:C5:10:PHE:CD2	10:C7:10:HIS:CA	2.95	0.46
9:C6:191:LEU:H	9:C6:191:LEU:HD12	1.81	0.46
8:CC:10:PHE:HZ	9:CD:10:LEU:HA	1.81	0.46
7:CF:31:ILE:O	7:CF:32:LYS:C	2.58	0.46
5:CQ:51:ALA:HB3	5:CQ:52:PRO:HD3	1.97	0.46
8:CR:18:ASN:C	10:CT:20:ARG:NH1	2.67	0.46
8:CR:54:ILE:HB	10:CT:53:ARG:NH1	2.29	0.46
8:CR:202:ASP:OD1	8:CR:224:ARG:HD2	2.16	0.46
9:CS:191:LEU:H	9:CS:191:LEU:HD12	1.81	0.46
10:CT:83:CYS:HB2	10:CT:139:THR:HB	1.98	0.46
5:CV:103:GLU:HB2	5:CV:104:ARG:HD3	1.97	0.46
8:CW:35:TYR:CE1	10:CY:34:LEU:HB2	2.48	0.46
8:CW:182:PRO:CB	8:CW:189:GLY:HA3	2.45	0.46
8:Cb:172:ASN:HB3	8:Cb:175:LYS:HB3	1.97	0.46
8:Cb:190:TYR:CE1	8:Cb:217:CYS:SG	3.08	0.46
9:Cc:121:LEU:HD23	9:Cc:121:LEU:HA	1.82	0.46
9:Cc:133:THR:H	9:Cc:149:ALA:HA	1.80	0.46
9:Cc:191:LEU:H	9:Cc:191:LEU:HD12	1.81	0.46
10:Cd:17:LEU:HD12	10:Cd:17:LEU:C	2.40	0.46
8:Cg:10:PHE:HZ	9:Ch:10:LEU:HA	1.81	0.46
8:Cg:176:ARG:HB3	8:Cg:196:PHE:CB	2.45	0.46
8:Cg:182:PRO:HB2	8:Cg:186:GLN:NE2	2.31	0.46
8:Cg:190:TYR:CE1	8:Cg:217:CYS:SG	3.08	0.46
8:Cl:176:ARG:HB3	8:Cl:196:PHE:CG	2.50	0.46
9:Cm:191:LEU:H	9:Cm:191:LEU:HD12	1.81	0.46
10:Cn:99:THR:HG22	10:Cn:100:LEU:N	2.29	0.46
10:Cs:99:THR:HG22	10:Cs:100:LEU:N	2.29	0.46
7:Ct:88:PRO:N	7:Ct:89:PRO:HD2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cv:82:PHE:HA	8:Cv:83:CYS:HA	1.65	0.46
8:Cv:176:ARG:HB3	8:Cv:196:PHE:CG	2.50	0.46
8:Cv:202:ASP:OD1	8:Cv:224:ARG:HD2	2.16	0.46
8:Cv:210:VAL:O	8:Cv:210:VAL:HG13	2.15	0.46
9:Cw:191:LEU:HD12	9:Cw:191:LEU:H	1.81	0.46
10:Cx:83:CYS:HB2	10:Cx:139:THR:HB	1.98	0.46
1:A0:87:ASP:OD1	1:A0:89:PRO:HG2	2.15	0.46
1:A0:88:PRO:N	1:A0:89:PRO:HD2	2.31	0.46
2:A1:84:LEU:CA	2:A1:90:LEU:HD22	2.32	0.46
3:A2:79:LEU:HD13	3:A2:79:LEU:O	2.16	0.46
3:A7:81:ILE:C	3:A7:83:LEU:H	2.24	0.46
2:AD:14:SER:OG	2:AD:15:LEU:N	2.48	0.46
2:AD:49:ILE:C	2:AD:51:ALA:N	2.73	0.46
2:AD:111:PHE:HB3	2:AD:143:ILE:HG23	1.98	0.46
3:AF:102:ILE:HG12	3:AF:150:LEU:HB3	1.96	0.46
2:AI:18:LYS:CD	2:AI:85:ASP:HB2	2.45	0.46
3:AJ:19:TRP:C	3:AJ:21:ASP:H	2.23	0.46
3:AK:15:ILE:C	3:AK:17:HIS:H	2.23	0.46
2:AN:97:LEU:HB3	2:AN:146:ILE:HG23	1.97	0.46
4:AQ:4:CYS:SG	4:AQ:133:CYS:HA	2.56	0.46
4:AQ:123:ARG:CD	8:CR:179:LEU:HD11	2.42	0.46
2:AS:73:VAL:O	2:AS:74:LEU:C	2.59	0.46
4:AV:79:LEU:CD1	4:AV:85:LEU:HD22	2.44	0.46
1:AW:88:PRO:N	1:AW:89:PRO:HD2	2.31	0.46
4:Aa:92:LEU:O	4:Aa:93:GLN:C	2.58	0.46
4:Af:1:LYS:HZ3	4:Af:128:GLU:HA	1.81	0.46
4:Af:130:TRP:O	4:Af:131:ASP:C	2.58	0.46
2:Ah:49:ILE:C	2:Ah:51:ALA:N	2.73	0.46
2:Ah:111:PHE:HB3	2:Ah:143:ILE:HG23	1.98	0.46
3:Aj:102:ILE:HG12	3:Aj:150:LEU:HB3	1.96	0.46
2:Am:147:LYS:HB3	2:Am:147:LYS:HE2	1.49	0.46
4:Au:4:CYS:SG	4:Au:133:CYS:HA	2.56	0.46
4:Au:123:ARG:CD	8:Cv:179:LEU:HD11	2.42	0.46
2:Aw:18:LYS:CD	2:Aw:85:ASP:HB2	2.45	0.46
2:Aw:110:PHE:O	2:Aw:113:ILE:HB	2.15	0.46
4:B2:76:ILE:HA	4:B2:79:LEU:CD2	2.27	0.46
4:B3:81:GLN:HA	4:B3:82:PRO:HD2	1.74	0.46
4:B7:28:ALA:O	4:B7:29:PHE:C	2.58	0.46
4:BA:79:LEU:O	4:BA:85:LEU:HD22	2.16	0.46
5:BC:11:VAL:H	5:BC:11:VAL:HG23	1.19	0.46
7:BG:88:PRO:N	7:BG:89:PRO:HD2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BH:118:LEU:O	5:BH:122:LEU:HG	2.15	0.46
5:BM:118:LEU:O	5:BM:122:LEU:HG	2.15	0.46
6:BN:150:LEU:CB	6:BN:151:PRO:HD3	2.46	0.46
4:BU:120:GLN:HA	9:CX:65:ARG:HH22	1.78	0.46
4:Be:79:LEU:O	4:Be:85:LEU:HD22	2.16	0.46
7:Bk:88:PRO:N	7:Bk:89:PRO:HD2	2.30	0.46
5:Bl:36:LEU:HD22	5:Ck:128:THR:HB	1.97	0.46
6:Bm:81:ILE:C	6:Bm:83:LEU:H	2.24	0.46
6:Br:71:VAL:CG2	5:Cp:89:MET:HE1	2.45	0.46
6:Br:150:LEU:CB	6:Br:151:PRO:HD3	2.46	0.46
5:Bv:101:HIS:HD2	5:Bv:111:PHE:HZ	1.62	0.46
4:By:120:GLN:HA	9:C1:65:ARG:HH22	1.78	0.46
8:C0:182:PRO:CB	8:C0:189:GLY:HA3	2.45	0.46
7:C3:6:CYS:HB2	7:C3:7:CYS:H	1.51	0.46
8:C5:172:ASN:HB3	8:C5:175:LYS:HB3	1.97	0.46
8:C5:190:TYR:CE1	8:C5:217:CYS:SG	3.08	0.46
9:C6:199:ARG:CG	9:C6:204:ARG:HB2	2.40	0.46
8:CC:56:ASN:HD22	8:CC:198:LEU:HB3	1.77	0.46
8:CC:176:ARG:HB3	8:CC:196:PHE:CB	2.45	0.46
10:CE:99:THR:HG22	10:CE:100:LEU:N	2.29	0.46
7:CF:35:PHE:CE2	7:CF:39:LEU:HD11	2.51	0.46
9:CI:14:LEU:N	9:CI:14:LEU:HD22	2.31	0.46
10:CJ:161:VAL:CG1	10:CJ:163:MET:HG3	2.46	0.46
7:CK:31:ILE:O	7:CK:32:LYS:C	2.58	0.46
8:CR:21:ILE:H	10:CT:20:ARG:NH1	2.12	0.46
8:CR:152:SER:OG	8:CR:164:THR:HG23	2.16	0.46
10:CT:179:HIS:HA	10:CT:180:PRO:HD3	1.57	0.46
8:CW:12:TYR:HB3	8:CW:13:LEU:H	1.32	0.46
8:CW:87:LYS:HB2	8:CW:87:LYS:HE2	1.66	0.46
8:CW:176:ARG:HB3	8:CW:196:PHE:CG	2.50	0.46
10:CY:99:THR:HG22	10:CY:100:LEU:N	2.29	0.46
10:CY:179:HIS:HA	10:CY:180:PRO:HD3	1.57	0.46
8:Cb:35:TYR:CE1	10:Cd:34:LEU:HB2	2.48	0.46
8:Cb:202:ASP:OD1	8:Cb:224:ARG:HD2	2.16	0.46
10:Ci:81:PHE:HD1	10:Ci:81:PHE:HA	1.48	0.46
7:Cj:31:ILE:O	7:Cj:32:LYS:C	2.58	0.46
7:Cj:35:PHE:CE2	7:Cj:39:LEU:HD11	2.51	0.46
8:Cl:124:ASN:CG	8:Cl:125:PRO:HD2	2.40	0.46
10:Cn:161:VAL:CG1	10:Cn:163:MET:HG3	2.46	0.46
7:Co:31:ILE:O	7:Co:32:LYS:C	2.58	0.46
8:Cq:202:ASP:OD1	8:Cq:224:ARG:HD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:43:PRO:CD	10:Cs:38:ARG:HG2	2.44	0.46
9:Cr:162:VAL:CG1	9:Cr:163:THR:N	2.76	0.46
8:Cv:35:TYR:CE1	10:Cx:34:LEU:HB2	2.48	0.46
8:Cv:54:ILE:HB	10:Cx:53:ARG:NH1	2.29	0.46
10:Cx:179:HIS:HA	10:Cx:180:PRO:HD3	1.57	0.46
2:A1:49:ILE:C	2:A1:51:ALA:N	2.73	0.46
4:A4:92:LEU:O	4:A4:93:GLN:C	2.58	0.46
2:AD:118:LEU:O	2:AD:122:LEU:HG	2.16	0.46
2:AI:84:LEU:HD11	2:AI:142:ILE:HD11	1.98	0.46
3:AJ:81:ILE:C	3:AJ:83:LEU:H	2.24	0.46
3:AK:81:ILE:C	3:AK:83:LEU:H	2.24	0.46
3:AK:108:THR:HG23	3:AK:111:TYR:CE2	2.50	0.46
3:AP:102:ILE:HG12	3:AP:150:LEU:HB3	1.96	0.46
2:AS:18:LYS:CD	2:AS:85:ASP:HB2	2.45	0.46
2:AS:18:LYS:HD2	2:AS:85:ASP:HB2	1.97	0.46
2:AS:84:LEU:CA	2:AS:90:LEU:HD22	2.32	0.46
3:AT:150:LEU:CB	3:AT:151:PRO:HD3	2.43	0.46
3:AU:15:ILE:C	3:AU:17:HIS:H	2.23	0.46
3:AU:53:PHE:HB2	3:AU:58:ILE:CG2	2.45	0.46
4:AV:80:ASP:CG	4:AV:81:GLN:HG3	2.40	0.46
2:AX:49:ILE:C	2:AX:51:ALA:N	2.73	0.46
3:AY:19:TRP:C	3:AY:21:ASP:H	2.23	0.46
3:AY:79:LEU:HD13	3:AY:79:LEU:O	2.16	0.46
3:Ad:81:ILE:C	3:Ad:83:LEU:H	2.24	0.46
2:Ah:18:LYS:HD2	2:Ah:85:ASP:HB2	1.97	0.46
2:Ah:84:LEU:HD11	2:Ah:142:ILE:HD11	1.98	0.46
3:Aj:108:THR:HG23	3:Aj:111:TYR:CE2	2.50	0.46
2:Am:84:LEU:HD11	2:Am:142:ILE:HD11	1.98	0.46
2:Am:97:LEU:HB3	2:Am:146:ILE:HG23	1.97	0.46
3:An:19:TRP:C	3:An:21:ASP:H	2.23	0.46
3:Ao:81:ILE:C	3:Ao:83:LEU:H	2.24	0.46
4:Ap:2:LYS:HG3	4:Ap:3:GLN:O	2.16	0.46
2:Ar:97:LEU:HB3	2:Ar:146:ILE:HG23	1.97	0.46
2:Ar:111:PHE:HB3	2:Ar:143:ILE:HG23	1.98	0.46
3:At:123:LEU:O	3:At:127:LEU:HD23	2.16	0.46
3:Ay:15:ILE:C	3:Ay:17:HIS:H	2.23	0.46
3:Ay:53:PHE:HB2	3:Ay:58:ILE:CG2	2.45	0.46
4:Az:79:LEU:CD1	4:Az:85:LEU:HD22	2.44	0.46
4:Az:80:ASP:CG	4:Az:81:GLN:HG3	2.40	0.46
4:Az:123:ARG:CD	8:C0:179:LEU:HD11	2.42	0.46
4:BA:73:ASP:O	4:BA:74:ILE:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BI:81:ILE:C	6:BI:83:LEU:H	2.24	0.46
6:BI:118:ALA:O	6:BI:122:VAL:HG23	2.15	0.46
6:BI:145:ARG:CA	6:BI:148:LYS:HB2	2.44	0.46
5:BR:51:ALA:HB3	5:BR:52:PRO:HD3	1.98	0.46
6:BS:108:THR:HG23	6:BS:111:TYR:CE2	2.50	0.46
4:BT:24:HIS:O	4:BT:25:ASP:C	2.59	0.46
5:BW:51:ALA:HB3	5:BW:52:PRO:HD3	1.97	0.46
4:Be:73:ASP:O	4:Be:74:ILE:C	2.59	0.46
7:Bf:72:LEU:O	7:Bf:73:ARG:C	2.58	0.46
5:Bg:31:ARG:HB3	5:Bg:71:GLN:HE22	1.80	0.46
5:Bl:118:LEU:O	5:Bl:122:LEU:HG	2.15	0.46
6:Bm:145:ARG:CA	6:Bm:148:LYS:HB2	2.44	0.46
5:Bv:51:ALA:HB3	5:Bv:52:PRO:HD3	1.98	0.46
6:Bw:108:THR:HG23	6:Bw:111:TYR:CE2	2.50	0.46
4:Bx:24:HIS:O	4:Bx:25:ASP:C	2.59	0.46
4:Bx:79:LEU:HB2	4:Bx:85:LEU:HD22	1.97	0.46
8:C0:172:ASN:HB3	8:C0:175:LYS:HB3	1.97	0.46
8:C0:182:PRO:HB2	8:C0:186:GLN:NE2	2.31	0.46
10:C2:18:ILE:CD1	9:CS:23:ARG:CZ	2.94	0.46
7:C3:35:PHE:CE2	7:C3:39:LEU:HD11	2.51	0.46
8:C5:176:ARG:HB3	8:C5:196:PHE:CG	2.50	0.46
8:C5:202:ASP:OD1	8:C5:224:ARG:HD2	2.16	0.46
9:C6:133:THR:H	9:C6:149:ALA:HA	1.80	0.46
8:CC:172:ASN:HB3	8:CC:175:LYS:HB3	1.97	0.46
8:CC:176:ARG:HB3	8:CC:196:PHE:CG	2.50	0.46
10:CE:161:VAL:CG1	10:CE:163:MET:HG3	2.46	0.46
10:CJ:99:THR:HG22	10:CJ:100:LEU:N	2.29	0.46
8:CM:152:SER:OG	8:CM:164:THR:HG23	2.16	0.46
8:CM:202:ASP:OD1	8:CM:224:ARG:HD2	2.16	0.46
9:CN:43:PRO:CD	10:CO:38:ARG:HG2	2.44	0.46
9:CN:162:VAL:CG1	9:CN:163:THR:N	2.76	0.46
8:CR:210:VAL:O	8:CR:210:VAL:HG13	2.15	0.46
5:CV:8:GLU:HB2	5:CV:9:CYS:H	1.51	0.46
8:CW:14:VAL:HB	10:CY:13:ILE:HD13	1.97	0.46
8:CW:172:ASN:HB3	8:CW:175:LYS:HB3	1.97	0.46
8:CW:190:TYR:CE1	8:CW:217:CYS:SG	3.08	0.46
10:CY:18:ILE:CD1	9:Cw:23:ARG:CZ	2.94	0.46
7:CZ:35:PHE:CE2	7:CZ:39:LEU:HD11	2.51	0.46
7:CZ:151:LEU:HD23	7:CZ:151:LEU:HA	1.75	0.46
9:Cc:199:ARG:CG	9:Cc:204:ARG:HB2	2.40	0.46
8:Cg:176:ARG:HB3	8:Cg:196:PHE:CG	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ci:161:VAL:CG1	10:Ci:163:MET:HG3	2.46	0.46
9:Cm:14:LEU:N	9:Cm:14:LEU:HD22	2.31	0.46
8:Cq:80:LEU:HD13	8:Cq:80:LEU:HA	1.85	0.46
8:Cq:152:SER:OG	8:Cq:164:THR:HG23	2.16	0.46
8:Cv:152:SER:OG	8:Cv:164:THR:HG23	2.16	0.46
9:Cw:96:ASP:HA	9:Cw:97:PRO:HD3	1.49	0.46
2:A1:111:PHE:HB3	2:A1:143:ILE:HG23	1.98	0.46
3:A2:19:TRP:C	3:A2:21:ASP:H	2.23	0.46
3:A3:94:LEU:HD12	3:A3:94:LEU:HA	1.84	0.46
2:A6:51:ALA:HB3	2:A6:52:PRO:HD3	1.97	0.46
2:A6:84:LEU:HD11	2:A6:142:ILE:HD11	1.98	0.46
2:AD:18:LYS:HD2	2:AD:85:ASP:HB2	1.97	0.46
2:AD:84:LEU:HD11	2:AD:142:ILE:HD11	1.98	0.46
3:AF:53:PHE:HB2	3:AF:58:ILE:CG2	2.45	0.46
3:AF:108:THR:HG23	3:AF:111:TYR:CE2	2.50	0.46
4:AG:80:ASP:CG	4:AG:81:GLN:HG3	2.40	0.46
1:AH:72:LEU:O	1:AH:73:ARG:C	2.59	0.46
2:AI:97:LEU:HB3	2:AI:146:ILE:HG23	1.97	0.46
3:AK:57:LYS:HD2	3:AK:65:GLU:HG3	1.98	0.46
4:AL:2:LYS:HG3	4:AL:3:GLN:O	2.16	0.46
4:AL:80:ASP:CG	4:AL:81:GLN:HG3	2.40	0.46
3:AP:123:LEU:O	3:AP:127:LEU:HD23	2.16	0.46
1:AW:129:ASP:OD1	1:AW:129:ASP:N	2.39	0.46
2:AX:18:LYS:HD2	2:AX:85:ASP:HB2	1.97	0.46
1:Ab:12:HIS:HB2	1:Ab:85:LEU:HD13	1.98	0.46
2:Ac:51:ALA:HB3	2:Ac:52:PRO:HD3	1.97	0.46
2:Ac:84:LEU:HD11	2:Ac:142:ILE:HD11	1.98	0.46
4:Ak:80:ASP:CG	4:Ak:81:GLN:HG3	2.40	0.46
1:Al:72:LEU:O	1:Al:73:ARG:C	2.59	0.46
3:An:81:ILE:C	3:An:83:LEU:H	2.24	0.46
3:Ao:57:LYS:HD2	3:Ao:65:GLU:HG3	1.98	0.46
4:Ap:80:ASP:CG	4:Ap:81:GLN:HG3	2.40	0.46
2:Ar:18:LYS:CD	2:Ar:85:ASP:HB2	2.45	0.46
3:At:102:ILE:HG12	3:At:150:LEU:HB3	1.96	0.46
4:Au:79:LEU:HD12	4:Au:79:LEU:HA	1.66	0.46
2:Aw:118:LEU:O	2:Aw:122:LEU:HG	2.16	0.46
6:B1:64:GLY:HA2	6:B1:67:LYS:HB2	1.98	0.46
6:B6:150:LEU:CB	6:B6:151:PRO:HD3	2.46	0.46
4:BA:35:ARG:HD3	9:CD:84:ASP:OD2	2.16	0.46
5:BC:49:ILE:C	5:BC:51:ALA:N	2.73	0.46
6:BD:19:TRP:C	6:BD:21:ASP:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BH:36:LEU:HD22	5:CG:128:THR:HB	1.97	0.46
5:BM:102:VAL:HG13	5:BM:103:GLU:N	2.30	0.46
6:BN:15:ILE:C	6:BN:17:HIS:H	2.22	0.46
6:BN:64:GLY:HA2	6:BN:67:LYS:HB2	1.98	0.46
4:BO:79:LEU:HB2	4:BO:85:LEU:HD22	1.97	0.46
5:BR:101:HIS:HD2	5:BR:111:PHE:HZ	1.62	0.46
4:BT:79:LEU:HB2	4:BT:85:LEU:HD22	1.97	0.46
6:BX:15:ILE:C	6:BX:17:HIS:H	2.21	0.46
6:Bc:102:ILE:CD1	6:Bc:149:ASP:CB	2.88	0.46
6:Bc:136:ASN:HD22	6:Bc:136:ASN:HA	1.56	0.46
6:Bc:150:LEU:CB	6:Bc:151:PRO:HD3	2.46	0.46
4:Be:35:ARG:HD3	9:Ch:84:ASP:OD2	2.16	0.46
6:Br:64:GLY:HA2	6:Br:67:LYS:HB2	1.98	0.46
4:Bs:79:LEU:HB2	4:Bs:85:LEU:HD22	1.97	0.46
6:Bw:19:TRP:C	6:Bw:21:ASP:H	2.24	0.46
8:C0:14:VAL:HB	10:C2:13:ILE:HD13	1.97	0.46
8:C0:35:TYR:CE1	10:C2:34:LEU:HB2	2.48	0.46
9:C1:177:ARG:HG2	9:C1:197:PHE:CD2	2.51	0.46
5:C4:97:LEU:HB3	5:C4:146:ILE:HG23	1.98	0.46
9:C6:177:ARG:HG2	9:C6:197:PHE:CD2	2.51	0.46
7:CA:35:PHE:CE2	7:CA:39:LEU:HD11	2.51	0.46
9:CD:89:CYS:SG	9:CD:92:ALA:HB1	2.56	0.46
10:CE:63:ASP:CB	10:CE:66:GLU:H	2.24	0.46
10:CO:93:GLU:C	10:CO:95:GLU:N	2.73	0.46
8:CR:182:PRO:CB	8:CR:189:GLY:HA3	2.45	0.46
9:CS:133:THR:H	9:CS:149:ALA:HA	1.80	0.46
10:CT:192:PHE:CB	10:CT:194:GLY:HA2	2.46	0.46
7:CU:35:PHE:CE2	7:CU:39:LEU:HD11	2.51	0.46
5:CV:110:PHE:O	5:CV:113:ILE:HB	2.16	0.46
8:CW:28:LEU:CD1	10:CY:27:SER:HB3	2.23	0.46
8:CW:102:LEU:HD22	8:CW:102:LEU:HA	1.59	0.46
8:CW:182:PRO:HB2	8:CW:186:GLN:NE2	2.31	0.46
9:CX:177:ARG:HG2	9:CX:197:PHE:CD2	2.51	0.46
5:Ca:97:LEU:HB3	5:Ca:146:ILE:HG23	1.98	0.46
8:Cb:152:SER:OG	8:Cb:164:THR:HG23	2.16	0.46
8:Cb:176:ARG:HB3	8:Cb:196:PHE:CG	2.50	0.46
9:Cc:96:ASP:HA	9:Cc:97:PRO:HD3	1.49	0.46
8:Cg:172:ASN:HB3	8:Cg:175:LYS:HB3	1.97	0.46
9:Ch:89:CYS:SG	9:Ch:92:ALA:HB1	2.56	0.46
10:Ci:99:THR:HG22	10:Ci:100:LEU:N	2.29	0.46
9:Cm:89:CYS:SG	9:Cm:92:ALA:HB1	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cx:192:PHE:CB	10:Cx:194:GLY:HA2	2.46	0.46
7:Cy:35:PHE:CE2	7:Cy:39:LEU:HD11	2.51	0.46
5:Cz:8:GLU:HB2	5:Cz:9:CYS:H	1.51	0.46
5:Cz:110:PHE:O	5:Cz:113:ILE:HB	2.16	0.46
2:A1:18:LYS:HD2	2:A1:85:ASP:HB2	1.97	0.46
4:A4:123:ARG:HD2	8:C5:179:LEU:CD1	2.42	0.46
1:A5:12:HIS:HB2	1:A5:85:LEU:HD13	1.98	0.46
3:A7:128:SER:O	3:A7:129:CYS:HB2	2.16	0.46
2:AD:18:LYS:CD	2:AD:85:ASP:HB2	2.45	0.46
2:AI:118:LEU:O	2:AI:122:LEU:HG	2.16	0.46
3:AJ:28:THR:O	3:AJ:29:ASP:C	2.58	0.46
2:AN:18:LYS:CD	2:AN:85:ASP:HB2	2.45	0.46
2:AN:111:PHE:HB3	2:AN:143:ILE:HG23	1.98	0.46
3:AP:108:THR:HG23	3:AP:111:TYR:CE2	2.50	0.46
3:AT:81:ILE:C	3:AT:83:LEU:H	2.24	0.46
2:AX:84:LEU:CA	2:AX:90:LEU:HD22	2.32	0.46
2:AX:111:PHE:HB3	2:AX:143:ILE:HG23	1.98	0.46
3:AY:81:ILE:C	3:AY:83:LEU:H	2.24	0.46
2:Ah:118:LEU:O	2:Ah:122:LEU:HG	2.16	0.46
3:Aj:53:PHE:HB2	3:Aj:58:ILE:CG2	2.45	0.46
2:Am:18:LYS:HD2	2:Am:85:ASP:HB2	1.97	0.46
3:Ao:102:ILE:HG12	3:Ao:150:LEU:HB3	1.96	0.46
4:Ap:4:CYS:SG	4:Ap:133:CYS:HA	2.56	0.46
3:Ax:150:LEU:CB	3:Ax:151:PRO:HD3	2.43	0.46
5:B0:31:ARG:HB3	5:B0:71:GLN:HE22	1.80	0.46
5:B0:51:ALA:HB3	5:B0:52:PRO:HD3	1.97	0.46
5:BC:31:ARG:HB3	5:BC:71:GLN:HE22	1.80	0.46
5:BH:11:VAL:H	5:BH:11:VAL:HG23	1.19	0.46
5:BM:14:SER:OG	5:BM:15:LEU:N	2.49	0.46
4:BP:73:ASP:O	4:BP:74:ILE:C	2.59	0.46
5:BR:31:ARG:HB3	5:BR:71:GLN:HE22	1.80	0.46
4:BU:35:ARG:HD3	9:CX:84:ASP:OD2	2.16	0.46
7:BV:99:ALA:HA	7:BV:147:ILE:O	2.16	0.46
5:BW:31:ARG:HB3	5:BW:71:GLN:HE22	1.80	0.46
6:BX:64:GLY:HA2	6:BX:67:LYS:HB2	1.98	0.46
6:BX:71:VAL:CG2	5:CV:89:MET:HE1	2.45	0.46
4:BZ:35:ARG:HD3	9:Cc:84:ASP:OD2	2.16	0.46
6:Bh:19:TRP:C	6:Bh:21:ASP:H	2.24	0.46
7:Bp:99:ALA:HA	7:Bp:147:ILE:O	2.16	0.46
5:Bq:14:SER:OG	5:Bq:15:LEU:N	2.49	0.46
5:Bq:102:VAL:HG13	5:Bq:103:GLU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bt:73:ASP:O	4:Bt:74:ILE:C	2.59	0.46
5:Bv:31:ARG:HB3	5:Bv:71:GLN:HE22	1.80	0.46
6:Bw:15:ILE:C	6:Bw:17:HIS:H	2.22	0.46
4:By:35:ARG:HD3	9:C1:84:ASP:OD2	2.16	0.46
4:By:85:LEU:O	4:By:86:LYS:C	2.58	0.46
7:Bz:99:ALA:HA	7:Bz:147:ILE:O	2.16	0.46
8:C0:190:TYR:CE1	8:C0:217:CYS:SG	3.08	0.46
9:C1:96:ASP:HA	9:C1:97:PRO:HD3	1.49	0.46
7:C3:70:HIS:O	7:C3:74:ILE:HG22	2.16	0.46
8:C5:10:PHE:HZ	9:C6:10:LEU:HA	1.81	0.46
8:C5:14:VAL:HB	10:C7:13:ILE:HD13	1.97	0.46
8:C5:35:TYR:CE1	10:C7:34:LEU:HB2	2.48	0.46
8:C5:152:SER:OG	8:C5:164:THR:HG23	2.16	0.46
9:C6:208:HIS:HA	9:C6:219:ALA:O	2.15	0.46
5:CB:51:ALA:HB3	5:CB:52:PRO:HD3	1.97	0.46
5:CB:110:PHE:O	5:CB:113:ILE:HB	2.16	0.46
8:CC:18:ASN:HD21	10:CE:16:LYS:HB3	1.81	0.46
9:CD:123:ARG:HE	9:CD:123:ARG:HB2	1.49	0.46
10:CE:59:ASP:HA	10:CE:60:PRO:HD3	1.35	0.46
8:CH:182:PRO:HB2	8:CH:186:GLN:NE2	2.31	0.46
9:CI:89:CYS:SG	9:CI:92:ALA:HB1	2.56	0.46
10:CJ:17:LEU:HD12	10:CJ:17:LEU:C	2.40	0.46
7:CK:35:PHE:CE2	7:CK:39:LEU:HD11	2.51	0.46
7:CK:99:ALA:HA	7:CK:147:ILE:O	2.16	0.46
8:CM:14:VAL:HB	10:CO:13:ILE:HD13	1.97	0.46
8:CM:182:PRO:HB2	8:CM:186:GLN:NE2	2.31	0.46
9:CN:180:ILE:HG22	9:CN:182:LEU:CD1	2.46	0.46
10:CO:18:ILE:HG23	10:CO:19:GLU:H	1.81	0.46
10:CO:161:VAL:CG1	10:CO:163:MET:HG3	2.46	0.46
9:CX:133:THR:H	9:CX:149:ALA:HA	1.80	0.46
7:CZ:70:HIS:O	7:CZ:74:ILE:HG22	2.16	0.46
7:CZ:99:ALA:HA	7:CZ:147:ILE:O	2.16	0.46
5:Ca:110:PHE:O	5:Ca:113:ILE:HB	2.16	0.46
8:Cb:10:PHE:HZ	9:Cc:10:LEU:HA	1.81	0.46
9:Cc:177:ARG:HG2	9:Cc:197:PHE:CD2	2.51	0.46
7:Ce:35:PHE:CE2	7:Ce:39:LEU:HD11	2.51	0.46
5:Cf:51:ALA:HB3	5:Cf:52:PRO:HD3	1.97	0.46
5:Cf:103:GLU:HB2	5:Cf:104:ARG:HD3	1.97	0.46
9:Cm:180:ILE:HG22	9:Cm:182:LEU:CD1	2.46	0.46
10:Cn:83:CYS:HB2	10:Cn:139:THR:HB	1.98	0.46
7:Co:35:PHE:CE2	7:Co:39:LEU:HD11	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Co:99:ALA:HA	7:Co:147:ILE:O	2.16	0.46
9:Cr:180:ILE:HG22	9:Cr:182:LEU:CD1	2.46	0.46
10:Cs:93:GLU:C	10:Cs:95:GLU:N	2.73	0.46
7:Ct:31:ILE:O	7:Ct:32:LYS:C	2.58	0.46
8:Cv:21:ILE:H	10:Cx:20:ARG:NH1	2.12	0.46
8:Cv:182:PRO:CB	8:Cv:189:GLY:HA3	2.45	0.46
9:Cw:133:THR:H	9:Cw:149:ALA:HA	1.80	0.46
1:A0:32:LYS:HG2	1:A0:75:LEU:HD12	1.98	0.46
1:A0:72:LEU:O	1:A0:73:ARG:C	2.59	0.46
3:A2:81:ILE:C	3:A2:83:LEU:H	2.24	0.46
3:A2:128:SER:O	3:A2:129:CYS:HB2	2.16	0.46
4:A4:4:CYS:SG	4:A4:133:CYS:HA	2.56	0.46
4:A4:80:ASP:CG	4:A4:81:GLN:HG3	2.40	0.46
1:A5:88:PRO:N	1:A5:89:PRO:HD2	2.31	0.46
4:AB:80:ASP:CG	4:AB:81:GLN:HG3	2.40	0.46
2:AI:110:PHE:O	2:AI:113:ILE:HB	2.15	0.46
3:AK:102:ILE:HG12	3:AK:150:LEU:HB3	1.96	0.46
4:AL:79:LEU:CD1	4:AL:85:LEU:HD22	2.44	0.46
2:AN:84:LEU:HD12	2:AN:90:LEU:HD11	1.96	0.46
4:AQ:2:LYS:HG3	4:AQ:3:GLN:O	2.16	0.46
1:AR:88:PRO:N	1:AR:89:PRO:HD2	2.31	0.46
2:AS:118:LEU:O	2:AS:122:LEU:HG	2.16	0.46
3:AT:96:HIS:O	3:AT:100:GLN:HG3	2.16	0.46
1:AW:32:LYS:HG2	1:AW:75:LEU:HD12	1.98	0.46
1:AW:72:LEU:O	1:AW:73:ARG:C	2.59	0.46
4:Aa:4:CYS:SG	4:Aa:133:CYS:HA	2.56	0.46
4:Aa:123:ARG:HD2	8:Cb:179:LEU:CD1	2.42	0.46
3:Ad:128:SER:O	3:Ad:129:CYS:HB2	2.16	0.46
3:Ae:123:LEU:O	3:Ae:127:LEU:HD23	2.16	0.46
4:Af:80:ASP:CG	4:Af:81:GLN:HG3	2.40	0.46
2:Ah:18:LYS:CD	2:Ah:85:ASP:HB2	2.45	0.46
2:Am:118:LEU:O	2:Am:122:LEU:HG	2.16	0.46
3:An:28:THR:O	3:An:29:ASP:C	2.58	0.46
3:At:108:THR:HG23	3:At:111:TYR:CE2	2.50	0.46
1:Av:88:PRO:N	1:Av:89:PRO:HD2	2.31	0.46
2:Aw:18:LYS:HZ3	2:Aw:85:ASP:HB2	1.81	0.46
3:Ax:81:ILE:C	3:Ax:83:LEU:H	2.24	0.46
6:B1:15:ILE:C	6:B1:17:HIS:H	2.21	0.46
4:B3:35:ARG:HD3	9:C6:84:ASP:OD2	2.16	0.46
7:B4:35:PHE:CE2	7:B4:39:LEU:HD11	2.51	0.46
5:B5:118:LEU:O	5:B5:122:LEU:HG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:102:ILE:CD1	6:B6:149:ASP:CB	2.88	0.46
4:B7:24:HIS:O	4:B7:25:ASP:C	2.59	0.46
4:B7:51:VAL:HG22	4:B7:51:VAL:O	2.14	0.46
4:BF:130:TRP:O	4:BF:131:ASP:C	2.59	0.46
5:BH:14:SER:OG	5:BH:15:LEU:N	2.49	0.46
5:BH:31:ARG:HB3	5:BH:71:GLN:HE22	1.80	0.46
4:BJ:79:LEU:HB2	4:BJ:85:LEU:HD22	1.97	0.46
4:BJ:81:GLN:H	4:BJ:81:GLN:HG3	1.48	0.46
7:BL:72:LEU:O	7:BL:73:ARG:C	2.58	0.46
7:BL:99:ALA:HA	7:BL:147:ILE:O	2.16	0.46
5:BR:143:ILE:O	5:BR:147:LYS:HG2	2.16	0.46
6:BS:15:ILE:C	6:BS:17:HIS:H	2.22	0.46
4:BU:85:LEU:O	4:BU:86:LYS:C	2.58	0.46
4:BY:76:ILE:HA	4:BY:79:LEU:CD2	2.27	0.46
7:Ba:35:PHE:CE2	7:Ba:39:LEU:HD11	2.51	0.46
4:Bj:130:TRP:O	4:Bj:131:ASP:C	2.59	0.46
6:Bm:150:LEU:CB	6:Bm:151:PRO:HD3	2.46	0.46
4:Bn:79:LEU:HB2	4:Bn:85:LEU:HD22	1.97	0.46
5:Bv:143:ILE:O	5:Bv:147:LYS:HG2	2.16	0.46
9:C1:89:CYS:SG	9:C1:92:ALA:HB1	2.56	0.46
7:C3:99:ALA:HA	7:C3:147:ILE:O	2.16	0.46
5:C4:110:PHE:O	5:C4:113:ILE:HB	2.16	0.46
8:C5:81:LEU:H	8:C5:81:LEU:HG	1.59	0.46
9:C6:89:CYS:SG	9:C6:92:ALA:HB1	2.56	0.46
10:C7:18:ILE:CD1	9:CN:23:ARG:CZ	2.94	0.46
5:CB:103:GLU:HB2	5:CB:104:ARG:HD3	1.97	0.46
8:CC:141:PHE:HD1	8:CC:141:PHE:HA	1.56	0.46
8:CH:10:PHE:HZ	9:CI:10:LEU:HA	1.81	0.46
8:CH:152:SER:HA	8:CH:163:SER:O	2.15	0.46
9:CI:180:ILE:HG22	9:CI:182:LEU:CD1	2.46	0.46
10:CJ:59:ASP:HA	10:CJ:60:PRO:HD3	1.35	0.46
7:CK:12:HIS:HB2	7:CK:85:LEU:HD13	1.97	0.46
7:CP:31:ILE:O	7:CP:32:LYS:C	2.58	0.46
9:CS:177:ARG:HG2	9:CS:197:PHE:CD2	2.51	0.46
9:CS:180:ILE:HG22	9:CS:182:LEU:CD1	2.46	0.46
8:CW:34:GLU:HA	8:CW:37:LYS:CE	2.45	0.46
9:CX:89:CYS:SG	9:CX:92:ALA:HB1	2.56	0.46
8:Cb:14:VAL:HB	10:Cd:13:ILE:HD13	1.97	0.46
9:Cc:89:CYS:SG	9:Cc:92:ALA:HB1	2.56	0.46
9:Cc:208:HIS:HA	9:Cc:219:ALA:O	2.15	0.46
10:Cd:161:VAL:CG1	10:Cd:163:MET:HG3	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Cf:110:PHE:O	5:Cf:113:ILE:HB	2.16	0.46
8:Cg:18:ASN:HD21	10:Ci:16:LYS:HB3	1.81	0.46
8:Cl:10:PHE:HZ	9:Cm:10:LEU:HA	1.81	0.46
8:Cl:149:ALA:HB3	8:Cl:180:LEU:HD13	1.98	0.46
8:Cl:182:PRO:HB2	8:Cl:186:GLN:NE2	2.31	0.46
10:Cn:17:LEU:HD12	10:Cn:17:LEU:C	2.40	0.46
7:Co:12:HIS:HB2	7:Co:85:LEU:HD13	1.97	0.46
8:Cq:14:VAL:HB	10:Cs:13:ILE:HD13	1.97	0.46
10:Cs:18:ILE:HG23	10:Cs:19:GLU:H	1.81	0.46
10:Cs:161:VAL:CG1	10:Cs:163:MET:HG3	2.46	0.46
9:Cw:180:ILE:HG22	9:Cw:182:LEU:CD1	2.46	0.46
3:A3:15:ILE:C	3:A3:17:HIS:H	2.23	0.45
1:A5:32:LYS:HG2	1:A5:75:LEU:HD12	1.98	0.45
3:A7:28:THR:O	3:A7:29:ASP:C	2.58	0.45
3:AA:123:LEU:O	3:AA:127:LEU:HD23	2.16	0.45
1:AH:88:PRO:N	1:AH:89:PRO:HD2	2.31	0.45
2:AI:18:LYS:HD2	2:AI:85:ASP:HB2	1.97	0.45
3:AK:123:LEU:O	3:AK:127:LEU:HD23	2.16	0.45
4:AL:4:CYS:SG	4:AL:133:CYS:HA	2.56	0.45
3:AO:123:LEU:HA	3:AO:126:VAL:CG2	2.47	0.45
3:AP:79:LEU:HD13	3:AP:79:LEU:C	2.40	0.45
4:AQ:80:ASP:CG	4:AQ:81:GLN:HG3	2.40	0.45
4:AQ:142:LYS:C	4:AQ:144:HIS:H	2.24	0.45
2:AS:49:ILE:C	2:AS:51:ALA:N	2.73	0.45
2:AS:111:PHE:HB3	2:AS:143:ILE:HG23	1.98	0.45
3:AU:81:ILE:C	3:AU:83:LEU:H	2.24	0.45
3:AY:128:SER:O	3:AY:129:CYS:HB2	2.16	0.45
3:AZ:15:ILE:C	3:AZ:17:HIS:H	2.23	0.45
4:Aa:80:ASP:CG	4:Aa:81:GLN:HG3	2.40	0.45
1:Ab:88:PRO:N	1:Ab:89:PRO:HD2	2.31	0.45
2:Ac:18:LYS:HD2	2:Ac:85:ASP:HB2	1.97	0.45
3:Ad:19:TRP:C	3:Ad:21:ASP:H	2.23	0.45
4:Af:2:LYS:HG3	4:Af:3:GLN:O	2.16	0.45
4:Ak:2:LYS:HG3	4:Ak:3:GLN:O	2.16	0.45
2:Ar:51:ALA:HB3	2:Ar:52:PRO:HD3	1.97	0.45
2:Ar:84:LEU:HD12	2:Ar:90:LEU:HD11	1.96	0.45
3:As:123:LEU:HA	3:As:126:VAL:CG2	2.47	0.45
3:At:81:ILE:C	3:At:83:LEU:H	2.24	0.45
4:Au:2:LYS:HG3	4:Au:3:GLN:O	2.16	0.45
4:Au:80:ASP:CG	4:Au:81:GLN:HG3	2.40	0.45
4:Au:142:LYS:C	4:Au:144:HIS:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Aw:49:ILE:C	2:Aw:51:ALA:N	2.73	0.45
3:Ax:96:HIS:O	3:Ax:100:GLN:HG3	2.16	0.45
6:B1:71:VAL:CG2	5:Cz:89:MET:HE1	2.45	0.45
6:B1:150:LEU:CB	6:B1:151:PRO:HD3	2.46	0.45
5:B5:51:ALA:HB3	5:B5:52:PRO:HD3	1.97	0.45
6:B6:136:ASN:HD22	6:B6:136:ASN:HA	1.56	0.45
7:BB:35:PHE:CE2	7:BB:39:LEU:HD11	2.51	0.45
5:BC:51:ALA:HB3	5:BC:52:PRO:HD3	1.98	0.45
4:BE:79:LEU:HB2	4:BE:85:LEU:HD22	1.97	0.45
4:BF:73:ASP:O	4:BF:74:ILE:C	2.59	0.45
6:BI:150:LEU:CB	6:BI:151:PRO:HD3	2.46	0.45
4:BJ:24:HIS:O	4:BJ:25:ASP:C	2.59	0.45
4:BO:28:ALA:O	4:BO:29:PHE:C	2.58	0.45
7:BQ:35:PHE:CE2	7:BQ:39:LEU:HD11	2.51	0.45
7:BQ:99:ALA:HA	7:BQ:147:ILE:O	2.16	0.45
4:BT:85:LEU:O	4:BT:86:LYS:C	2.59	0.45
7:BV:35:PHE:CE2	7:BV:39:LEU:HD11	2.51	0.45
6:BX:150:LEU:CB	6:BX:151:PRO:HD3	2.46	0.45
6:Bc:81:ILE:C	6:Bc:83:LEU:H	2.24	0.45
5:Bg:51:ALA:HB3	5:Bg:52:PRO:HD3	1.98	0.45
4:Bj:73:ASP:O	4:Bj:74:ILE:C	2.59	0.45
5:Bl:14:SER:OG	5:Bl:15:LEU:N	2.49	0.45
5:Bl:31:ARG:HB3	5:Bl:71:GLN:HE22	1.80	0.45
7:Bp:72:LEU:O	7:Bp:73:ARG:C	2.58	0.45
6:Br:15:ILE:C	6:Br:17:HIS:H	2.22	0.45
7:Bu:35:PHE:CE2	7:Bu:39:LEU:HD11	2.51	0.45
7:Bu:99:ALA:HA	7:Bu:147:ILE:O	2.16	0.45
9:C1:133:THR:H	9:C1:149:ALA:HA	1.80	0.45
10:C7:161:VAL:CG1	10:C7:163:MET:HG3	2.46	0.45
8:CC:35:TYR:CE1	10:CE:34:LEU:HB2	2.48	0.45
8:CC:44:LYS:HE3	10:CE:46:LYS:HZ2	1.75	0.45
8:CH:149:ALA:HB3	8:CH:180:LEU:HD13	1.98	0.45
9:CI:199:ARG:CG	9:CI:204:ARG:HB2	2.40	0.45
10:CJ:83:CYS:HB2	10:CJ:139:THR:HB	1.98	0.45
7:CK:151:LEU:HD23	7:CK:151:LEU:HA	1.75	0.45
9:CN:96:ASP:HA	9:CN:97:PRO:HD3	1.49	0.45
9:CN:191:LEU:HD12	9:CN:191:LEU:H	1.81	0.45
9:CS:173:ASN:HD22	9:CS:174:PHE:N	2.14	0.45
10:CT:161:VAL:CG1	10:CT:163:MET:HG3	2.46	0.45
5:CV:97:LEU:HB3	5:CV:146:ILE:HG23	1.98	0.45
10:Cd:18:ILE:CD1	9:Cr:23:ARG:CZ	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:44:LYS:HE3	10:Ci:46:LYS:HZ2	1.75	0.45
9:Ch:173:ASN:HD22	9:Ch:174:PHE:N	2.14	0.45
5:Ck:51:ALA:HB3	5:Ck:52:PRO:HD3	1.97	0.45
8:Cl:12:TYR:HB3	8:Cl:13:LEU:H	1.32	0.45
8:Cq:117:TRP:CD1	8:Cq:121:GLU:CB	2.92	0.45
8:Cq:182:PRO:HB2	8:Cq:186:GLN:NE2	2.31	0.45
8:Cv:10:PHE:HZ	9:Cw:10:LEU:HA	1.81	0.45
8:Cv:35:TYR:OH	10:Cx:34:LEU:HB3	2.15	0.45
9:Cw:173:ASN:HD22	9:Cw:174:PHE:N	2.14	0.45
9:Cw:177:ARG:HG2	9:Cw:197:PHE:CD2	2.51	0.45
1:A0:129:ASP:OD1	1:A0:129:ASP:N	2.39	0.45
2:A6:18:LYS:HD2	2:A6:85:ASP:HB2	1.97	0.45
4:AB:2:LYS:HG3	4:AB:3:GLN:O	2.16	0.45
1:AC:88:PRO:N	1:AC:89:PRO:HD2	2.31	0.45
3:AE:19:TRP:C	3:AE:21:ASP:H	2.23	0.45
3:AF:57:LYS:HD2	3:AF:65:GLU:HG3	1.98	0.45
4:AG:1:LYS:HZ3	4:AG:128:GLU:HA	1.81	0.45
4:AG:2:LYS:HG3	4:AG:3:GLN:O	2.16	0.45
4:AL:123:ARG:CD	8:CM:179:LEU:HD11	2.42	0.45
2:AN:51:ALA:HB3	2:AN:52:PRO:HD3	1.97	0.45
3:AP:81:ILE:C	3:AP:83:LEU:H	2.24	0.45
1:Ab:32:LYS:HG2	1:Ab:75:LEU:HD12	1.98	0.45
1:Al:88:PRO:N	1:Al:89:PRO:HD2	2.31	0.45
2:Am:110:PHE:O	2:Am:113:ILE:HB	2.15	0.45
3:Ao:123:LEU:O	3:Ao:127:LEU:HD23	2.16	0.45
4:Ap:79:LEU:CD1	4:Ap:85:LEU:HD22	2.44	0.45
2:Aw:111:PHE:HB3	2:Aw:143:ILE:HG23	1.98	0.45
3:Ax:108:THR:H	3:Ax:111:TYR:HD2	1.63	0.45
3:Ay:81:ILE:C	3:Ay:83:LEU:H	2.24	0.45
4:B3:79:LEU:O	4:B3:85:LEU:HD22	2.16	0.45
7:B4:12:HIS:O	7:B4:13:ARG:C	2.59	0.45
5:B5:49:ILE:C	5:B5:51:ALA:N	2.73	0.45
6:B6:81:ILE:C	6:B6:83:LEU:H	2.24	0.45
7:BB:72:LEU:O	7:BB:73:ARG:C	2.58	0.45
4:BF:31:GLN:HB3	9:CI:81:LEU:HD13	1.99	0.45
4:BF:79:LEU:O	4:BF:85:LEU:HD22	2.16	0.45
7:BL:12:HIS:O	7:BL:13:ARG:C	2.59	0.45
6:BN:145:ARG:CA	6:BN:148:LYS:HB2	2.44	0.45
5:Bb:51:ALA:HB3	5:Bb:52:PRO:HD3	1.97	0.45
5:Bb:118:LEU:O	5:Bb:122:LEU:HG	2.15	0.45
4:Bd:51:VAL:HG22	4:Bd:51:VAL:O	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bd:120:GLN:HE21	10:Cd:80:LEU:CD1	2.26	0.45
7:Bf:35:PHE:CE2	7:Bf:39:LEU:HD11	2.51	0.45
4:Bj:31:GLN:HB3	9:Cm:81:LEU:HD13	1.99	0.45
4:Bn:24:HIS:O	4:Bn:25:ASP:C	2.59	0.45
7:Bp:12:HIS:O	7:Bp:13:ARG:C	2.59	0.45
4:Bs:28:ALA:O	4:Bs:29:PHE:C	2.58	0.45
4:Bx:85:LEU:O	4:Bx:86:LYS:C	2.59	0.45
7:Bz:35:PHE:CE2	7:Bz:39:LEU:HD11	2.51	0.45
8:C0:34:GLU:HA	8:C0:37:LYS:CE	2.45	0.45
8:C0:149:ALA:HB3	8:C0:180:LEU:HD13	1.98	0.45
9:C1:23:ARG:CZ	10:CT:18:ILE:CD1	2.94	0.45
8:C5:18:ASN:HD21	10:C7:16:LYS:HB3	1.81	0.45
8:C5:35:TYR:HA	8:C5:38:LEU:HD12	1.99	0.45
9:CD:14:LEU:N	9:CD:14:LEU:HD22	2.31	0.45
9:CD:173:ASN:HD22	9:CD:174:PHE:N	2.14	0.45
7:CF:12:HIS:HB2	7:CF:85:LEU:HD13	1.97	0.45
5:CG:110:PHE:O	5:CG:113:ILE:HB	2.16	0.45
9:CI:43:PRO:CD	10:CJ:38:ARG:HG2	2.44	0.45
8:CM:35:TYR:CE1	10:CO:34:LEU:HB2	2.48	0.45
9:CN:147:LEU:CD2	9:CN:171:TYR:HA	2.47	0.45
10:CO:192:PHE:CB	10:CO:194:GLY:HA2	2.46	0.45
10:CO:196:ASN:HA	10:CO:197:PHE:HA	1.83	0.45
7:CP:87:ASP:OD1	7:CP:89:PRO:HG2	2.16	0.45
8:CR:10:PHE:HZ	9:CS:10:LEU:HA	1.81	0.45
7:CU:87:ASP:OD1	7:CU:89:PRO:HG2	2.16	0.45
8:CW:149:ALA:HB3	8:CW:180:LEU:HD13	1.98	0.45
9:CX:23:ARG:CZ	10:Cx:18:ILE:CD1	2.94	0.45
10:CY:78:SER:O	10:CY:81:PHE:HB2	2.16	0.45
9:Cc:14:LEU:HD22	9:Cc:14:LEU:N	2.31	0.45
10:Cd:83:CYS:HB2	10:Cd:139:THR:HB	1.98	0.45
10:Cd:192:PHE:CB	10:Cd:194:GLY:HA2	2.46	0.45
9:Ch:180:ILE:HG22	9:Ch:182:LEU:CD1	2.46	0.45
9:Ch:199:ARG:CG	9:Ch:204:ARG:HB2	2.40	0.45
10:CI:63:ASP:CB	10:CI:66:GLU:H	2.24	0.45
8:Cl:152:SER:HA	8:Cl:163:SER:O	2.15	0.45
8:Cl:190:TYR:CE1	8:Cl:217:CYS:SG	3.08	0.45
9:Cm:139:LYS:HZ3	10:Cs:158:GLU:HB2	1.81	0.45
9:Cm:199:ARG:CG	9:Cm:204:ARG:HB2	2.40	0.45
10:Cn:18:ILE:HG23	10:Cn:19:GLU:H	1.81	0.45
9:Cr:191:LEU:H	9:Cr:191:LEU:HD12	1.81	0.45
7:Ct:87:ASP:OD1	7:Ct:89:PRO:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cx:161:VAL:CG1	10:Cx:163:MET:HG3	2.46	0.45
7:Cy:87:ASP:OD1	7:Cy:89:PRO:HG2	2.16	0.45
5:Cz:97:LEU:HB3	5:Cz:146:ILE:HG23	1.98	0.45
3:A3:81:ILE:C	3:A3:83:LEU:H	2.24	0.45
3:A3:108:THR:H	3:A3:111:TYR:HD2	1.65	0.45
3:A7:19:TRP:C	3:A7:21:ASP:H	2.23	0.45
4:AG:142:LYS:C	4:AG:144:HIS:H	2.24	0.45
3:AK:132:VAL:HG13	3:AK:133:ASP:N	2.32	0.45
3:AT:108:THR:H	3:AT:111:TYR:HD2	1.63	0.45
3:AZ:81:ILE:C	3:AZ:83:LEU:H	2.24	0.45
3:AZ:108:THR:H	3:AZ:111:TYR:HD2	1.65	0.45
3:Ad:28:THR:O	3:Ad:29:ASP:C	2.58	0.45
1:Ag:88:PRO:N	1:Ag:89:PRO:HD2	2.31	0.45
3:Aj:57:LYS:HD2	3:Aj:65:GLU:HG3	1.98	0.45
4:Ak:4:CYS:SG	4:Ak:133:CYS:HA	2.56	0.45
4:Ak:142:LYS:C	4:Ak:144:HIS:H	2.24	0.45
3:Ao:132:VAL:HG13	3:Ao:133:ASP:N	2.32	0.45
3:At:79:LEU:HD13	3:At:79:LEU:C	2.40	0.45
3:At:132:VAL:HG13	3:At:133:ASP:N	2.32	0.45
6:B1:145:ARG:CA	6:B1:148:LYS:HB2	2.44	0.45
7:BB:12:HIS:O	7:BB:13:ARG:C	2.59	0.45
6:BI:19:TRP:CD2	6:BI:81:ILE:CD1	3.00	0.45
7:BL:45:LYS:HE3	7:BL:45:LYS:HA	1.98	0.45
6:BN:19:TRP:C	6:BN:21:ASP:H	2.24	0.45
4:BO:1:LYS:HB2	4:BO:2:LYS:H	1.34	0.45
4:BP:35:ARG:HD3	9:CS:84:ASP:OD2	2.16	0.45
4:BU:130:TRP:O	4:BU:131:ASP:C	2.59	0.45
6:BX:145:ARG:CA	6:BX:148:LYS:HB2	2.44	0.45
4:BY:85:LEU:O	4:BY:86:LYS:C	2.59	0.45
7:Ba:12:HIS:O	7:Ba:13:ARG:C	2.59	0.45
4:Bi:79:LEU:HB2	4:Bi:85:LEU:HD22	1.97	0.45
6:Bm:19:TRP:CD2	6:Bm:81:ILE:CD1	3.00	0.45
4:Bo:31:GLN:HB3	9:Cr:81:LEU:HD13	1.99	0.45
6:Br:19:TRP:C	6:Br:21:ASP:H	2.24	0.45
6:Br:145:ARG:CA	6:Br:148:LYS:HB2	2.44	0.45
4:Bs:1:LYS:HB2	4:Bs:2:LYS:H	1.34	0.45
4:Bt:35:ARG:HD3	9:Cw:84:ASP:OD2	2.16	0.45
4:By:28:ALA:O	4:By:29:PHE:C	2.58	0.45
4:By:130:TRP:O	4:By:131:ASP:C	2.59	0.45
10:C2:78:SER:O	10:C2:81:PHE:HB2	2.16	0.45
10:C2:161:VAL:CG1	10:C2:163:MET:HG3	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C4:111:PHE:CD1	5:C4:111:PHE:N	2.85	0.45
10:C7:192:PHE:CB	10:C7:194:GLY:HA2	2.46	0.45
7:CA:99:ALA:HA	7:CA:147:ILE:O	2.16	0.45
5:CB:111:PHE:CD1	5:CB:111:PHE:N	2.85	0.45
8:CC:14:VAL:HB	10:CE:13:ILE:HD13	1.97	0.45
8:CC:35:TYR:HA	8:CC:38:LEU:HD12	1.99	0.45
9:CD:180:ILE:HG22	9:CD:182:LEU:CD1	2.46	0.45
5:CG:51:ALA:HB3	5:CG:52:PRO:HD3	1.97	0.45
8:CH:35:TYR:HA	8:CH:38:LEU:HD12	1.99	0.45
8:CH:42:VAL:HG21	8:CH:46:THR:HG21	1.99	0.45
8:CH:152:SER:OG	8:CH:164:THR:HG23	2.16	0.45
8:CH:190:TYR:CE1	8:CH:217:CYS:SG	3.08	0.45
9:CI:23:ARG:CZ	10:CI:18:ILE:CD1	2.94	0.45
9:CI:31:LEU:HD13	10:CJ:28:ILE:HA	1.90	0.45
10:CJ:18:ILE:HG23	10:CJ:19:GLU:H	1.81	0.45
5:CL:8:GLU:HB2	5:CL:9:CYS:H	1.51	0.45
5:CL:110:PHE:O	5:CL:113:ILE:HB	2.16	0.45
9:CN:57:ILE:HD11	10:CO:54:VAL:CA	2.45	0.45
7:CP:99:ALA:HA	7:CP:147:ILE:O	2.16	0.45
5:CQ:111:PHE:CD1	5:CQ:111:PHE:N	2.85	0.45
8:CR:35:TYR:OH	10:CT:34:LEU:HB3	2.15	0.45
9:CS:57:ILE:HD11	10:CT:54:VAL:CA	2.45	0.45
7:CU:70:HIS:O	7:CU:74:ILE:HG22	2.16	0.45
7:CU:99:ALA:HA	7:CU:147:ILE:O	2.16	0.45
8:CW:18:ASN:CG	10:CY:16:LYS:HZ2	2.24	0.45
9:CX:96:ASP:HA	9:CX:97:PRO:HD3	1.49	0.45
7:CZ:6:CYS:HB2	7:CZ:7:CYS:H	1.51	0.45
5:Ca:111:PHE:N	5:Ca:111:PHE:CD1	2.85	0.45
8:Cb:18:ASN:HD21	10:Cd:16:LYS:HB3	1.81	0.45
8:Cb:35:TYR:HA	8:Cb:38:LEU:HD12	1.99	0.45
7:Cc:99:ALA:HA	7:Cc:147:ILE:O	2.16	0.45
5:Cf:111:PHE:N	5:Cf:111:PHE:CD1	2.85	0.45
8:Cg:14:VAL:HB	10:CI:13:ILE:HD13	1.97	0.45
8:Cg:184:LYS:C	8:Cg:186:GLN:H	2.23	0.45
9:Ch:177:ARG:HG2	9:Ch:197:PHE:CD2	2.51	0.45
7:Cj:12:HIS:HB2	7:Cj:85:LEU:HD13	1.97	0.45
5:Ck:110:PHE:O	5:Ck:113:ILE:HB	2.16	0.45
8:Cl:35:TYR:HA	8:Cl:38:LEU:HD12	1.99	0.45
8:Cl:42:VAL:HG21	8:Cl:46:THR:HG21	1.99	0.45
8:Cl:152:SER:OG	8:Cl:164:THR:HG23	2.16	0.45
9:Cm:43:PRO:CD	10:Cn:38:ARG:HG2	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Co:70:HIS:O	7:Co:74:ILE:HG22	2.16	0.45
9:Cr:147:LEU:CD2	9:Cr:171:TYR:HA	2.47	0.45
9:Cr:177:ARG:HG2	9:Cr:197:PHE:CD2	2.51	0.45
5:Cu:103:GLU:HB2	5:Cu:104:ARG:HD3	1.97	0.45
5:Cu:111:PHE:N	5:Cu:111:PHE:CD1	2.85	0.45
9:Cw:147:LEU:CD2	9:Cw:171:TYR:HA	2.47	0.45
5:Cz:102:VAL:HG13	5:Cz:103:GLU:N	2.32	0.45
2:A1:118:LEU:O	2:A1:122:LEU:HG	2.16	0.45
3:A2:123:LEU:HA	3:A2:126:VAL:CG2	2.46	0.45
3:A3:71:VAL:HG11	2:A6:83:MET:HE1	1.99	0.45
4:A4:2:LYS:HG3	4:A4:3:GLN:O	2.16	0.45
2:AD:80:THR:CG2	2:AD:97:LEU:HD11	2.47	0.45
4:AG:4:CYS:SG	4:AG:133:CYS:HA	2.56	0.45
3:AK:94:LEU:HD12	3:AK:94:LEU:HA	1.84	0.45
3:AK:108:THR:H	3:AK:111:TYR:HD2	1.65	0.45
1:AM:14:ILE:O	1:AM:15:VAL:C	2.60	0.45
1:AM:88:PRO:N	1:AM:89:PRO:HD2	2.31	0.45
3:AP:132:VAL:HG13	3:AP:133:ASP:N	2.32	0.45
2:AS:84:LEU:HD11	2:AS:142:ILE:HD11	1.98	0.45
3:AY:123:LEU:HA	3:AY:126:VAL:CG2	2.46	0.45
3:AZ:71:VAL:HG11	2:Ac:83:MET:HE1	1.99	0.45
2:Ah:80:THR:CG2	2:Ah:97:LEU:HD11	2.47	0.45
3:Ai:19:TRP:C	3:Ai:21:ASP:H	2.23	0.45
3:Aj:81:ILE:C	3:Aj:83:LEU:H	2.24	0.45
1:Al:12:HIS:HB2	1:Al:85:LEU:HD13	1.98	0.45
4:Ap:123:ARG:CD	8:Cq:179:LEU:HD11	2.42	0.45
1:Aq:14:ILE:O	1:Aq:15:VAL:C	2.60	0.45
1:Aq:88:PRO:N	1:Aq:89:PRO:HD2	2.31	0.45
2:Aw:84:LEU:HD11	2:Aw:142:ILE:HD11	1.98	0.45
3:Ay:123:LEU:O	3:Ay:127:LEU:HD23	2.16	0.45
4:B2:85:LEU:O	4:B2:86:LYS:C	2.59	0.45
5:B5:107:LYS:HB2	5:B5:110:PHE:CE2	2.52	0.45
5:B5:107:LYS:HE2	5:B5:110:PHE:CZ	2.52	0.45
5:B5:143:ILE:O	5:B5:147:LYS:HG2	2.16	0.45
4:B7:120:GLN:HE21	10:C7:80:LEU:CD1	2.26	0.45
4:BA:31:GLN:HB3	9:CD:81:LEU:HD13	1.99	0.45
4:BA:101:ILE:HA	4:BA:102:PRO:HD3	1.47	0.45
4:BK:31:GLN:HB3	9:CN:81:LEU:HD13	1.99	0.45
4:BP:31:GLN:HB3	9:CS:81:LEU:HD13	1.99	0.45
4:BU:28:ALA:O	4:BU:29:PHE:C	2.58	0.45
4:BZ:79:LEU:O	4:BZ:85:LEU:HD22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bb:49:ILE:C	5:Bb:51:ALA:N	2.73	0.45
5:Bb:107:LYS:HB2	5:Bb:110:PHE:CE2	2.52	0.45
5:Bb:143:ILE:O	5:Bb:147:LYS:HG2	2.16	0.45
4:Be:31:GLN:HB3	9:Ch:81:LEU:HD13	1.99	0.45
7:Bf:12:HIS:O	7:Bf:13:ARG:C	2.59	0.45
5:Bg:11:VAL:H	5:Bg:11:VAL:HG23	1.19	0.45
5:Bg:14:SER:OG	5:Bg:15:LEU:N	2.49	0.45
4:Bj:79:LEU:O	4:Bj:85:LEU:HD22	2.16	0.45
6:Bm:64:GLY:HA2	6:Bm:67:LYS:HB2	1.98	0.45
7:Bp:45:LYS:HA	7:Bp:45:LYS:HE3	1.98	0.45
7:Bu:12:HIS:O	7:Bu:13:ARG:C	2.59	0.45
8:C0:18:ASN:CG	10:C2:16:LYS:HZ2	2.24	0.45
8:C0:35:TYR:HA	8:C0:38:LEU:HD12	1.99	0.45
5:C4:51:ALA:HB3	5:C4:52:PRO:HD3	1.97	0.45
9:C6:14:LEU:N	9:C6:14:LEU:HD22	2.31	0.45
9:C6:96:ASP:HA	9:C6:97:PRO:HD3	1.49	0.45
10:C7:83:CYS:HB2	10:C7:139:THR:HB	1.98	0.45
5:CB:102:VAL:HG13	5:CB:103:GLU:N	2.32	0.45
9:CD:177:ARG:HG2	9:CD:197:PHE:CD2	2.51	0.45
9:CD:199:ARG:CG	9:CD:204:ARG:HB2	2.40	0.45
10:CE:18:ILE:CD1	9:Cm:23:ARG:CZ	2.94	0.45
10:CE:93:GLU:C	10:CE:95:GLU:N	2.73	0.45
10:CE:192:PHE:CB	10:CE:194:GLY:HA2	2.46	0.45
7:CK:70:HIS:O	7:CK:74:ILE:HG22	2.16	0.45
5:CL:111:PHE:N	5:CL:111:PHE:CD1	2.85	0.45
9:CN:177:ARG:HG2	9:CN:197:PHE:CD2	2.51	0.45
10:CO:83:CYS:HB2	10:CO:139:THR:HB	1.98	0.45
7:CP:12:HIS:O	7:CP:13:ARG:C	2.58	0.45
7:CP:35:PHE:CE2	7:CP:39:LEU:HD11	2.51	0.45
8:CR:35:TYR:HA	8:CR:38:LEU:HD12	1.99	0.45
9:CS:147:LEU:CD2	9:CS:171:TYR:HA	2.47	0.45
5:CV:17:VAL:HG13	5:CV:135:TRP:CZ2	2.52	0.45
5:CV:111:PHE:N	5:CV:111:PHE:CD1	2.85	0.45
8:CW:35:TYR:HA	8:CW:38:LEU:HD12	1.99	0.45
10:CY:161:VAL:CG1	10:CY:163:MET:HG3	2.46	0.45
10:CY:184:ASP:OD2	10:CY:186:LEU:HG	2.16	0.45
5:Ca:17:VAL:HG13	5:Ca:135:TRP:CZ2	2.52	0.45
5:Cf:102:VAL:HG13	5:Cf:103:GLU:N	2.32	0.45
8:Cg:35:TYR:CE1	10:Ci:34:LEU:HB2	2.48	0.45
8:Cg:35:TYR:HA	8:Cg:38:LEU:HD12	1.99	0.45
9:Ch:14:LEU:N	9:Ch:14:LEU:HD22	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ci:93:GLU:C	10:Ci:95:GLU:N	2.73	0.45
10:Ci:192:PHE:CB	10:Ci:194:GLY:HA2	2.46	0.45
8:Cl:202:ASP:OD1	8:Cl:224:ARG:HD2	2.16	0.45
9:Cm:31:LEU:HD13	10:Cn:28:ILE:HA	1.90	0.45
5:Cp:111:PHE:N	5:Cp:111:PHE:CD1	2.85	0.45
8:Cq:42:VAL:HG21	8:Cq:46:THR:HG21	1.99	0.45
8:Cq:51:LYS:NZ	10:Cs:46:LYS:HE3	2.31	0.45
10:Cs:192:PHE:CB	10:Cs:194:GLY:HA2	2.46	0.45
10:Cs:196:ASN:HA	10:Cs:197:PHE:HA	1.83	0.45
7:Ct:99:ALA:HA	7:Ct:147:ILE:O	2.16	0.45
5:Cu:110:PHE:O	5:Cu:113:ILE:HB	2.16	0.45
8:Cv:35:TYR:HA	8:Cv:38:LEU:HD12	1.99	0.45
9:Cw:57:ILE:HD11	10:Cx:54:VAL:CA	2.45	0.45
9:Cw:57:ILE:CG1	10:Cx:57:LEU:HD12	2.44	0.45
7:Cy:70:HIS:O	7:Cy:74:ILE:HG22	2.16	0.45
7:Cy:99:ALA:HA	7:Cy:147:ILE:O	2.16	0.45
5:Cz:17:VAL:HG13	5:Cz:135:TRP:CZ2	2.52	0.45
5:Cz:111:PHE:N	5:Cz:111:PHE:CD1	2.85	0.45
3:A3:123:LEU:O	3:A3:127:LEU:HD23	2.16	0.45
3:AA:71:VAL:HG11	2:AD:83:MET:HE1	1.99	0.45
3:AA:108:THR:H	3:AA:111:TYR:HD2	1.65	0.45
4:AB:79:LEU:CD1	4:AB:85:LEU:HD22	2.45	0.45
3:AF:71:VAL:HG11	2:AI:83:MET:HE1	1.99	0.45
1:AH:12:HIS:O	1:AH:13:ARG:C	2.60	0.45
3:AJ:69:HIS:O	3:AJ:70:LEU:C	2.59	0.45
3:AK:71:VAL:HG11	2:AN:83:MET:HE1	1.99	0.45
3:AO:69:HIS:O	3:AO:70:LEU:C	2.59	0.45
3:AP:108:THR:H	3:AP:111:TYR:HD2	1.65	0.45
3:AU:123:LEU:O	3:AU:127:LEU:HD23	2.16	0.45
4:AV:4:CYS:SG	4:AV:133:CYS:HA	2.56	0.45
3:AZ:123:LEU:O	3:AZ:127:LEU:HD23	2.16	0.45
2:Ac:111:PHE:HB3	2:Ac:143:ILE:HG23	1.98	0.45
3:Ad:79:LEU:HD13	3:Ad:79:LEU:O	2.16	0.45
3:Ae:71:VAL:HG11	2:Ah:83:MET:HE1	1.99	0.45
3:Ae:79:LEU:HD13	3:Ae:79:LEU:C	2.40	0.45
3:Ae:108:THR:H	3:Ae:111:TYR:HD2	1.65	0.45
3:Ai:96:HIS:O	3:Ai:100:GLN:HG3	2.16	0.45
3:Ai:123:LEU:HA	3:Ai:126:VAL:CG2	2.46	0.45
3:Aj:71:VAL:HG11	2:Am:83:MET:HE1	1.99	0.45
1:Al:12:HIS:O	1:Al:13:ARG:C	2.60	0.45
3:Ao:18:ILE:CG2	3:Ao:130:PHE:HD1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ao:27:PHE:HB2	3:Ao:28:THR:H	1.59	0.45
3:Ao:108:THR:H	3:Ao:111:TYR:HD2	1.65	0.45
2:Ar:73:VAL:O	2:Ar:74:LEU:C	2.59	0.45
2:Ar:118:LEU:O	2:Ar:122:LEU:HG	2.16	0.45
3:As:128:SER:O	3:As:129:CYS:HB2	2.16	0.45
3:At:27:PHE:HB2	3:At:28:THR:H	1.59	0.45
7:B4:96:ASP:O	7:B4:99:ALA:HB3	2.17	0.45
5:B5:31:ARG:HB3	5:B5:71:GLN:HE22	1.80	0.45
6:B6:19:TRP:CD2	6:B6:81:ILE:CD1	3.00	0.45
5:BC:14:SER:OG	5:BC:15:LEU:N	2.49	0.45
5:BC:102:VAL:HG13	5:BC:103:GLU:N	2.30	0.45
5:BC:143:ILE:O	5:BC:147:LYS:HG2	2.16	0.45
6:BD:19:TRP:CD2	6:BD:81:ILE:CD1	3.00	0.45
7:BG:9:GLU:HA	7:BG:12:HIS:CE1	2.52	0.45
7:BG:12:HIS:O	7:BG:13:ARG:C	2.59	0.45
7:BG:45:LYS:HA	7:BG:45:LYS:HE3	1.98	0.45
5:BH:102:VAL:HG13	5:BH:103:GLU:N	2.30	0.45
7:BQ:12:HIS:O	7:BQ:13:ARG:C	2.59	0.45
6:BS:19:TRP:C	6:BS:21:ASP:H	2.24	0.45
6:BS:150:LEU:CB	6:BS:151:PRO:HD3	2.46	0.45
6:BX:102:ILE:CD1	6:BX:149:ASP:CB	2.88	0.45
7:Ba:96:ASP:O	7:Ba:99:ALA:HB3	2.17	0.45
5:Bb:107:LYS:HE2	5:Bb:110:PHE:CZ	2.52	0.45
5:Bg:102:VAL:HG13	5:Bg:103:GLU:N	2.30	0.45
5:Bg:143:ILE:O	5:Bg:147:LYS:HG2	2.16	0.45
6:Bh:19:TRP:CD2	6:Bh:81:ILE:CD1	3.00	0.45
7:Bk:12:HIS:O	7:Bk:13:ARG:C	2.59	0.45
7:Bk:45:LYS:HA	7:Bk:45:LYS:HE3	1.98	0.45
5:Bl:143:ILE:O	5:Bl:147:LYS:HG2	2.17	0.45
6:Br:71:VAL:HB	5:Cp:83:MET:CE	2.46	0.45
4:Bt:31:GLN:HB3	9:Cw:81:LEU:HD13	1.99	0.45
6:Bw:150:LEU:CB	6:Bw:151:PRO:HD3	2.46	0.45
8:C0:152:SER:OG	8:C0:164:THR:HG23	2.16	0.45
9:C1:180:ILE:HG22	9:C1:182:LEU:CD1	2.46	0.45
10:C2:83:CYS:HB2	10:C2:139:THR:HB	1.98	0.45
10:C2:184:ASP:OD2	10:C2:186:LEU:HG	2.16	0.45
5:C4:17:VAL:HG13	5:C4:135:TRP:CZ2	2.52	0.45
8:C5:51:LYS:NZ	10:C7:46:LYS:HE3	2.31	0.45
9:C6:180:ILE:HG22	9:C6:182:LEU:CD1	2.46	0.45
7:CA:12:HIS:HB2	7:CA:85:LEU:HD13	1.97	0.45
7:CA:70:HIS:O	7:CA:74:ILE:HG22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CB:97:LEU:HB3	5:CB:146:ILE:HG23	1.98	0.45
8:CH:155:LEU:CD1	8:CH:161:THR:HB	2.36	0.45
8:CH:202:ASP:OD1	8:CH:224:ARG:HD2	2.16	0.45
8:CM:10:PHE:HZ	9:CN:10:LEU:HA	1.81	0.45
8:CM:42:VAL:HG21	8:CM:46:THR:HG21	1.99	0.45
8:CM:51:LYS:NZ	10:CO:46:LYS:HE3	2.31	0.45
8:CM:117:TRP:CD1	8:CM:121:GLU:CB	2.92	0.45
8:CM:219:HIS:ND1	8:CM:219:HIS:C	2.75	0.45
10:CO:17:LEU:HD12	10:CO:17:LEU:C	2.40	0.45
10:CO:197:PHE:HB3	10:CO:199:ARG:CB	2.37	0.45
5:CQ:103:GLU:HB2	5:CQ:104:ARG:HD3	1.97	0.45
5:CQ:110:PHE:O	5:CQ:113:ILE:HB	2.16	0.45
8:CR:182:PRO:HB2	8:CR:186:GLN:NE2	2.31	0.45
10:CT:184:ASP:OD2	10:CT:186:LEU:HG	2.17	0.45
8:CW:152:SER:OG	8:CW:164:THR:HG23	2.16	0.45
5:Ca:51:ALA:HB3	5:Ca:52:PRO:HD3	1.97	0.45
8:Cb:81:LEU:H	8:Cb:81:LEU:HG	1.59	0.45
5:Cf:97:LEU:HB3	5:Cf:146:ILE:HG23	1.98	0.45
9:Ch:38:ALA:HB3	10:Ci:35:LEU:HD11	1.87	0.45
9:Ch:191:LEU:H	9:Ch:191:LEU:HD12	1.81	0.45
5:Cp:110:PHE:O	5:Cp:113:ILE:HB	2.16	0.45
8:Cq:35:TYR:CE1	10:Cs:34:LEU:HB2	2.48	0.45
8:Cq:219:HIS:ND1	8:Cq:219:HIS:C	2.75	0.45
9:Cr:57:ILE:HD11	10:Cs:54:VAL:CA	2.45	0.45
10:Cx:184:ASP:OD2	10:Cx:186:LEU:HG	2.17	0.45
2:A1:51:ALA:HB3	2:A1:52:PRO:HD3	1.97	0.45
3:A3:19:TRP:C	3:A3:21:ASP:N	2.75	0.45
3:A3:23:TRP:HA	3:A3:23:TRP:HE3	1.82	0.45
3:A7:123:LEU:HA	3:A7:126:VAL:CG2	2.47	0.45
3:AA:79:LEU:HD13	3:AA:79:LEU:C	2.40	0.45
4:AB:92:LEU:O	4:AB:93:GLN:C	2.58	0.45
4:AB:142:LYS:C	4:AB:144:HIS:H	2.24	0.45
3:AE:96:HIS:O	3:AE:100:GLN:HG3	2.16	0.45
3:AE:123:LEU:HA	3:AE:126:VAL:CG2	2.46	0.45
3:AF:81:ILE:C	3:AF:83:LEU:H	2.24	0.45
1:AH:12:HIS:HB2	1:AH:85:LEU:HD13	1.98	0.45
2:AI:80:THR:CG2	2:AI:97:LEU:HD11	2.47	0.45
3:AJ:128:SER:O	3:AJ:129:CYS:HB2	2.16	0.45
1:AM:32:LYS:HG2	1:AM:75:LEU:HD12	1.98	0.45
1:AM:72:LEU:O	1:AM:73:ARG:C	2.59	0.45
3:AO:96:HIS:O	3:AO:100:GLN:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AO:128:SER:O	3:AO:129:CYS:HB2	2.16	0.45
1:AR:32:LYS:HG2	1:AR:75:LEU:HD12	1.99	0.45
3:AU:23:TRP:HA	3:AU:23:TRP:HE3	1.82	0.45
3:AU:108:THR:H	3:AU:111:TYR:HD2	1.65	0.45
4:AV:2:LYS:HG3	4:AV:3:GLN:O	2.16	0.45
4:AV:142:LYS:C	4:AV:144:HIS:H	2.24	0.45
2:AX:118:LEU:O	2:AX:122:LEU:HG	2.16	0.45
3:AZ:23:TRP:HA	3:AZ:23:TRP:HE3	1.82	0.45
4:Aa:2:LYS:HG3	4:Aa:3:GLN:O	2.16	0.45
3:Ad:123:LEU:HA	3:Ad:126:VAL:CG2	2.47	0.45
4:Af:142:LYS:C	4:Af:144:HIS:H	2.24	0.45
2:Am:80:THR:CG2	2:Am:97:LEU:HD11	2.47	0.45
3:Ao:71:VAL:HG11	2:Ar:83:MET:HE1	1.99	0.45
1:Aq:32:LYS:HG2	1:Aq:75:LEU:HD12	1.98	0.45
3:As:69:HIS:O	3:As:70:LEU:C	2.59	0.45
3:As:96:HIS:O	3:As:100:GLN:HG3	2.16	0.45
3:At:108:THR:H	3:At:111:TYR:HD2	1.65	0.45
1:Av:32:LYS:HG2	1:Av:75:LEU:HD12	1.99	0.45
3:Ax:94:LEU:HD12	3:Ax:94:LEU:HA	1.84	0.45
3:Ay:23:TRP:HA	3:Ay:23:TRP:HE3	1.82	0.45
3:Ay:108:THR:H	3:Ay:111:TYR:HD2	1.65	0.45
4:Az:4:CYS:SG	4:Az:133:CYS:HA	2.56	0.45
4:Az:142:LYS:C	4:Az:144:HIS:H	2.24	0.45
5:B0:17:VAL:HG13	5:B0:135:TRP:CE2	2.52	0.45
5:B0:101:HIS:HD2	5:B0:111:PHE:HZ	1.62	0.45
6:B6:64:GLY:HA2	6:B6:67:LYS:HB2	1.98	0.45
6:B6:65:GLU:H	6:B6:65:GLU:HG2	1.64	0.45
4:BA:130:TRP:O	4:BA:131:ASP:C	2.60	0.45
5:BC:107:LYS:HB2	5:BC:110:PHE:CE2	2.52	0.45
4:BE:28:ALA:O	4:BE:29:PHE:C	2.58	0.45
4:BF:35:ARG:HD3	9:CI:84:ASP:OD2	2.16	0.45
5:BH:107:LYS:HE2	5:BH:110:PHE:CZ	2.52	0.45
5:BH:143:ILE:O	5:BH:147:LYS:HG2	2.17	0.45
6:BI:64:GLY:HA2	6:BI:67:LYS:HB2	1.98	0.45
6:BI:96:HIS:CD2	5:CG:72:ARG:CD	3.00	0.45
5:BM:49:ILE:C	5:BM:51:ALA:N	2.73	0.45
5:BM:107:LYS:HE2	5:BM:110:PHE:CZ	2.52	0.45
4:BO:59:PRO:HB2	7:CK:89:PRO:HB2	1.98	0.45
4:BP:79:LEU:O	4:BP:85:LEU:HD22	2.16	0.45
5:BR:17:VAL:HG13	5:BR:135:TRP:CE2	2.52	0.45
5:BR:107:LYS:HE2	5:BR:110:PHE:CZ	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bb:31:ARG:HB3	5:Bb:71:GLN:HE22	1.80	0.45
6:Bc:19:TRP:CD2	6:Bc:81:ILE:CD1	3.00	0.45
7:Bf:87:ASP:OD1	7:Bf:89:PRO:HG2	2.17	0.45
5:Bg:107:LYS:HB2	5:Bg:110:PHE:CE2	2.52	0.45
4:Bi:59:PRO:HB2	7:Ce:89:PRO:HB2	1.97	0.45
7:Bk:9:GLU:HA	7:Bk:12:HIS:CE1	2.52	0.45
5:Bl:11:VAL:H	5:Bl:11:VAL:HG23	1.19	0.45
5:Bl:49:ILE:C	5:Bl:51:ALA:N	2.73	0.45
5:Bl:102:VAL:HG13	5:Bl:103:GLU:N	2.30	0.45
5:Bq:101:HIS:HD2	5:Bq:111:PHE:HZ	1.62	0.45
4:Bt:101:ILE:HB	4:Bt:106:PHE:HE1	1.82	0.45
5:Bv:17:VAL:HG13	5:Bv:135:TRP:CE2	2.52	0.45
10:C2:192:PHE:CB	10:C2:194:GLY:HA2	2.46	0.45
8:C5:176:ARG:HB3	8:C5:176:ARG:HE	1.55	0.45
9:CD:13:ARG:HH12	10:CE:14:ILE:CB	2.28	0.45
9:CD:77:ILE:HG21	9:CD:88:ASP:CG	2.42	0.45
9:CD:191:LEU:H	9:CD:191:LEU:HD12	1.81	0.45
5:CG:102:VAL:HG13	5:CG:103:GLU:N	2.32	0.45
10:CO:184:ASP:OD2	10:CO:186:LEU:HG	2.17	0.45
8:CR:18:ASN:HD21	10:CT:16:LYS:HB3	1.81	0.45
5:CV:102:VAL:HG13	5:CV:103:GLU:N	2.32	0.45
9:CX:180:ILE:HG22	9:CX:182:LEU:CD1	2.46	0.45
10:CY:83:CYS:HB2	10:CY:139:THR:HB	1.98	0.45
10:CY:93:GLU:C	10:CY:95:GLU:N	2.73	0.45
8:Cb:35:TYR:HE1	10:Cd:34:LEU:CB	2.04	0.45
8:Cb:51:LYS:NZ	10:Cd:46:LYS:HE3	2.31	0.45
9:Cc:180:ILE:HG22	9:Cc:182:LEU:CD1	2.46	0.45
7:Ce:70:HIS:O	7:Ce:74:ILE:HG22	2.16	0.45
9:Ch:77:ILE:HG21	9:Ch:88:ASP:CG	2.42	0.45
10:Cn:59:ASP:HA	10:Cn:60:PRO:HD3	1.35	0.45
8:Cq:10:PHE:HZ	9:Cr:10:LEU:HA	1.81	0.45
10:Cs:83:CYS:HB2	10:Cs:139:THR:HB	1.98	0.45
10:Cs:184:ASP:OD2	10:Cs:186:LEU:HG	2.17	0.45
7:Ct:12:HIS:O	7:Ct:13:ARG:C	2.58	0.45
7:Ct:35:PHE:CE2	7:Ct:39:LEU:HD11	2.51	0.45
7:Ct:70:HIS:O	7:Ct:74:ILE:HG22	2.16	0.45
2:A6:111:PHE:HB3	2:A6:143:ILE:HG23	1.98	0.45
3:A7:79:LEU:HD13	3:A7:79:LEU:O	2.16	0.45
3:A7:108:THR:H	3:A7:111:TYR:HD2	1.63	0.45
3:A7:131:ASN:C	3:A7:131:ASN:HD22	2.25	0.45
4:AB:4:CYS:SG	4:AB:133:CYS:HA	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AE:128:SER:O	3:AE:129:CYS:HB2	2.16	0.45
3:AF:108:THR:H	3:AF:111:TYR:HD2	1.65	0.45
3:AF:131:ASN:C	3:AF:131:ASN:HD22	2.25	0.45
3:AJ:123:LEU:HA	3:AJ:126:VAL:CG2	2.46	0.45
2:AN:73:VAL:O	2:AN:74:LEU:C	2.59	0.45
2:AN:118:LEU:O	2:AN:122:LEU:HG	2.16	0.45
2:AS:18:LYS:HZ3	2:AS:85:ASP:HB2	1.81	0.45
3:AU:57:LYS:HD2	3:AU:65:GLU:HG3	1.98	0.45
3:AZ:19:TRP:C	3:AZ:21:ASP:N	2.75	0.45
2:Ac:118:LEU:O	2:Ac:122:LEU:HG	2.16	0.45
3:Ad:131:ASN:C	3:Ad:131:ASN:HD22	2.25	0.45
4:Af:4:CYS:SG	4:Af:133:CYS:HA	2.56	0.45
4:Af:92:LEU:O	4:Af:93:GLN:C	2.58	0.45
3:Ai:128:SER:O	3:Ai:129:CYS:HB2	2.16	0.45
3:Aj:108:THR:H	3:Aj:111:TYR:HD2	1.65	0.45
3:Aj:131:ASN:C	3:Aj:131:ASN:HD22	2.25	0.45
3:An:128:SER:O	3:An:129:CYS:HB2	2.16	0.45
1:Aq:72:LEU:O	1:Aq:73:ARG:C	2.59	0.45
3:Ax:136:ASN:HD22	3:Ax:136:ASN:HA	1.58	0.45
6:B1:102:ILE:CD1	6:B1:149:ASP:CB	2.88	0.45
4:B2:24:HIS:O	4:B2:25:ASP:C	2.59	0.45
4:B7:85:LEU:O	4:B7:86:LYS:C	2.59	0.45
4:BA:101:ILE:HB	4:BA:106:PHE:HE1	1.82	0.45
7:BB:87:ASP:OD1	7:BB:89:PRO:HG2	2.17	0.45
7:BB:99:ALA:HA	7:BB:147:ILE:O	2.16	0.45
5:BC:17:VAL:HG13	5:BC:135:TRP:CE2	2.52	0.45
6:BD:60:GLU:O	6:BD:63:SER:HB3	2.17	0.45
6:BD:65:GLU:HA	5:CB:92:ALA:CB	2.45	0.45
5:BH:17:VAL:HG13	5:BH:135:TRP:CE2	2.52	0.45
5:BM:143:ILE:O	5:BM:147:LYS:HG2	2.16	0.45
6:BN:19:TRP:CD2	6:BN:81:ILE:CD1	3.00	0.45
4:BP:101:ILE:HB	4:BP:106:PHE:HE1	1.82	0.45
5:BW:17:VAL:HG13	5:BW:135:TRP:CE2	2.52	0.45
6:Bc:64:GLY:HA2	6:Bc:67:LYS:HB2	1.98	0.45
6:Bc:131:ASN:C	6:Bc:131:ASN:HD22	2.25	0.45
4:Be:101:ILE:HB	4:Be:106:PHE:HE1	1.82	0.45
4:Be:130:TRP:O	4:Be:131:ASP:C	2.60	0.45
7:Bf:99:ALA:HA	7:Bf:147:ILE:O	2.16	0.45
5:Bg:17:VAL:HG13	5:Bg:135:TRP:CE2	2.52	0.45
6:Bh:65:GLU:HA	5:Cf:92:ALA:CB	2.45	0.45
4:Bj:35:ARG:HD3	9:Cm:84:ASP:OD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bl:17:VAL:HG13	5:Bl:135:TRP:CE2	2.52	0.45
6:Bm:65:GLU:HA	5:Ck:92:ALA:CB	2.45	0.45
6:Bm:96:HIS:CD2	5:Ck:72:ARG:CD	3.00	0.45
4:Bo:130:TRP:O	4:Bo:131:ASP:C	2.59	0.45
5:Bq:107:LYS:HE2	5:Bq:110:PHE:CZ	2.52	0.45
5:Bq:143:ILE:O	5:Bq:147:LYS:HG2	2.16	0.45
6:Br:19:TRP:CD2	6:Br:81:ILE:CD1	3.00	0.45
4:Bt:79:LEU:O	4:Bt:85:LEU:HD22	2.16	0.45
5:Bv:107:LYS:HE2	5:Bv:110:PHE:CZ	2.52	0.45
9:C6:147:LEU:HD23	9:C6:171:TYR:HA	1.99	0.45
9:C6:147:LEU:CD2	9:C6:171:TYR:HA	2.47	0.45
10:C7:69:CYS:SG	10:C7:75:GLN:HB3	2.57	0.45
9:CD:23:ARG:CZ	10:Cn:18:ILE:CD1	2.94	0.45
7:CF:70:HIS:O	7:CF:74:ILE:HG22	2.16	0.45
5:CG:111:PHE:N	5:CG:111:PHE:CD1	2.85	0.45
8:CM:35:TYR:HA	8:CM:38:LEU:HD12	1.99	0.45
7:CP:70:HIS:O	7:CP:74:ILE:HG22	2.16	0.45
8:CR:34:GLU:HA	8:CR:37:LYS:CE	2.45	0.45
10:CY:192:PHE:CB	10:CY:194:GLY:HA2	2.46	0.45
9:Cc:147:LEU:HD23	9:Cc:171:TYR:HA	1.99	0.45
9:Cc:147:LEU:CD2	9:Cc:171:TYR:HA	2.47	0.45
9:Cc:173:ASN:HD22	9:Cc:174:PHE:N	2.14	0.45
10:Cd:69:CYS:SG	10:Cd:75:GLN:HB3	2.57	0.45
7:Ce:12:HIS:HB2	7:Ce:85:LEU:HD13	1.97	0.45
5:Cf:75:SER:O	5:Cf:78:ASP:HB3	2.17	0.45
9:Ch:13:ARG:HH12	10:Ci:14:ILE:CB	2.28	0.45
9:Ch:28:ILE:HD13	10:Ci:24:ILE:CD1	2.47	0.45
10:Ci:184:ASP:OD2	10:Ci:186:LEU:HG	2.17	0.45
7:Cj:70:HIS:O	7:Cj:74:ILE:HG22	2.16	0.45
5:Ck:102:VAL:HG13	5:Ck:103:GLU:N	2.32	0.45
5:Ck:111:PHE:N	5:Ck:111:PHE:CD1	2.85	0.45
5:Cp:8:GLU:HB2	5:Cp:9:CYS:H	1.51	0.45
8:Cq:35:TYR:HA	8:Cq:38:LEU:HD12	1.99	0.45
10:Cs:17:LEU:HD12	10:Cs:17:LEU:C	2.40	0.45
8:Cv:14:VAL:HB	10:Cx:13:ILE:HD13	1.97	0.45
8:Cv:117:TRP:CD1	8:Cv:121:GLU:CB	2.92	0.45
8:Cv:182:PRO:HB2	8:Cv:186:GLN:NE2	2.31	0.45
1:A0:14:ILE:O	1:A0:15:VAL:C	2.60	0.45
2:A1:83:MET:HE1	3:Ay:71:VAL:HG11	1.99	0.45
2:A6:118:LEU:O	2:A6:122:LEU:HG	2.16	0.45
2:AS:84:LEU:HD12	2:AS:90:LEU:HD11	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AU:71:VAL:HG11	2:AX:83:MET:HE1	1.99	0.45
2:AX:51:ALA:HB3	2:AX:52:PRO:HD3	1.97	0.45
3:Ad:108:THR:H	3:Ad:111:TYR:HD2	1.63	0.45
4:Af:79:LEU:CD1	4:Af:85:LEU:HD22	2.45	0.45
3:An:123:LEU:HA	3:An:126:VAL:CG2	2.46	0.45
3:Ao:94:LEU:HD12	3:Ao:94:LEU:HA	1.84	0.45
3:At:71:VAL:HG11	2:Aw:83:MET:HE1	1.99	0.45
2:Aw:84:LEU:HD12	2:Aw:90:LEU:HD11	1.96	0.45
3:Ay:57:LYS:HD2	3:Ay:65:GLU:HG3	1.98	0.45
4:Az:2:LYS:HG3	4:Az:3:GLN:O	2.16	0.45
7:B4:9:GLU:HA	7:B4:12:HIS:CE1	2.52	0.45
6:BD:150:LEU:CB	6:BD:151:PRO:HD3	2.46	0.45
4:BE:59:PRO:HB2	7:CA:89:PRO:HB2	1.97	0.45
4:BK:35:ARG:HD3	9:CN:84:ASP:OD2	2.16	0.45
4:BK:101:ILE:HB	4:BK:106:PHE:HE1	1.82	0.45
4:BK:130:TRP:O	4:BK:131:ASP:C	2.59	0.45
5:BM:101:HIS:HD2	5:BM:111:PHE:HZ	1.62	0.45
4:BP:101:ILE:HA	4:BP:102:PRO:HD3	1.47	0.45
5:BR:111:PHE:N	5:BR:111:PHE:CD1	2.85	0.45
4:BU:31:GLN:HB3	9:CX:81:LEU:HD13	1.99	0.45
5:BW:101:HIS:HD2	5:BW:111:PHE:HZ	1.62	0.45
5:BW:107:LYS:HB2	5:BW:110:PHE:CE2	2.52	0.45
4:BY:24:HIS:O	4:BY:25:ASP:C	2.59	0.45
7:Ba:9:GLU:HA	7:Ba:12:HIS:CE1	2.52	0.45
6:Bh:60:GLU:O	6:Bh:63:SER:HB3	2.17	0.45
4:Bi:28:ALA:O	4:Bi:29:PHE:C	2.58	0.45
5:Bl:107:LYS:HE2	5:Bl:110:PHE:CZ	2.52	0.45
4:Bo:35:ARG:HD3	9:Cr:84:ASP:OD2	2.16	0.45
4:Bo:101:ILE:HB	4:Bo:106:PHE:HE1	1.82	0.45
5:Bq:51:ALA:HB3	5:Bq:52:PRO:HD3	1.97	0.45
4:Bs:59:PRO:HB2	7:Co:89:PRO:HB2	1.98	0.45
6:Bw:21:ASP:HB3	6:Bw:127:LEU:HD13	1.99	0.45
6:Bw:69:HIS:O	6:Bw:70:LEU:C	2.60	0.45
4:By:31:GLN:HB3	9:C1:81:LEU:HD13	1.99	0.45
4:By:73:ASP:O	4:By:74:ILE:C	2.59	0.45
8:C0:117:TRP:CD1	8:C0:121:GLU:CB	2.92	0.45
8:C0:202:ASP:OD1	8:C0:224:ARG:HD2	2.16	0.45
8:C5:35:TYR:HE1	10:C7:34:LEU:CB	2.04	0.45
9:C6:173:ASN:HD22	9:C6:174:PHE:N	2.14	0.45
5:CB:75:SER:O	5:CB:78:ASP:HB3	2.17	0.45
8:CC:184:LYS:C	8:CC:186:GLN:H	2.23	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CD:28:ILE:HD13	10:CE:24:ILE:CD1	2.47	0.45
10:CE:184:ASP:OD2	10:CE:186:LEU:HG	2.17	0.45
5:CG:57:ARG:HG2	5:CG:57:ARG:NH1	2.32	0.45
5:CG:103:GLU:HB2	5:CG:104:ARG:HD3	1.97	0.45
8:CH:172:ASN:HB3	8:CH:175:LYS:HB3	1.97	0.45
10:CJ:18:ILE:CD1	9:Ch:23:ARG:CZ	2.94	0.45
5:CQ:102:VAL:HG13	5:CQ:103:GLU:N	2.32	0.45
8:CR:14:VAL:HB	10:CT:13:ILE:HD13	1.97	0.45
8:CR:51:LYS:NZ	10:CT:46:LYS:HE3	2.32	0.45
10:CT:78:SER:O	10:CT:81:PHE:HB2	2.16	0.45
8:CW:18:ASN:HD21	10:CY:16:LYS:HB3	1.81	0.45
5:Ca:75:SER:O	5:Ca:78:ASP:HB3	2.17	0.45
9:Cc:138:ARG:HD3	9:Cc:138:ARG:HA	1.73	0.45
5:Ck:57:ARG:HG2	5:Ck:57:ARG:NH1	2.32	0.45
5:Ck:103:GLU:HB2	5:Ck:104:ARG:HD3	1.97	0.45
8:Cq:149:ALA:HB3	8:Cq:180:LEU:HD13	1.97	0.45
8:Cv:18:ASN:HD21	10:Cx:16:LYS:HB3	1.81	0.45
8:Cv:51:LYS:NZ	10:Cx:46:LYS:HE3	2.32	0.45
9:Cw:35:LEU:HA	10:Cx:35:LEU:HD11	1.99	0.45
2:A1:84:LEU:HD11	2:A1:142:ILE:HD11	1.98	0.45
3:A2:108:THR:H	3:A2:111:TYR:HD2	1.63	0.45
3:A3:57:LYS:HD2	3:A3:65:GLU:HG3	1.98	0.45
2:A6:80:THR:CG2	2:A6:97:LEU:HD11	2.47	0.45
3:AA:136:ASN:HD22	3:AA:136:ASN:HA	1.56	0.45
3:AF:18:ILE:CG2	3:AF:130:PHE:HD1	2.30	0.45
3:AJ:96:HIS:O	3:AJ:100:GLN:HG3	2.16	0.45
3:AJ:102:ILE:CA	3:AJ:150:LEU:HG	2.39	0.45
3:AP:15:ILE:C	3:AP:17:HIS:H	2.23	0.45
3:AP:71:VAL:HG11	2:AS:83:MET:HE1	1.99	0.45
1:AR:12:HIS:HB2	1:AR:85:LEU:HD13	1.98	0.45
1:AW:14:ILE:O	1:AW:15:VAL:C	2.60	0.45
2:Ac:80:THR:CG2	2:Ac:97:LEU:HD11	2.47	0.45
3:Aj:18:ILE:CG2	3:Aj:130:PHE:HD1	2.30	0.45
3:Aj:132:VAL:HG13	3:Aj:133:ASP:N	2.32	0.45
3:At:15:ILE:C	3:At:17:HIS:H	2.23	0.45
3:Ax:23:TRP:CD1	3:Ax:78:LYS:HZ2	2.34	0.45
5:B0:107:LYS:HB2	5:B0:110:PHE:CE2	2.52	0.45
6:B1:19:TRP:CD2	6:B1:81:ILE:CD1	3.00	0.45
4:B3:28:ALA:O	4:B3:29:PHE:C	2.57	0.45
4:B3:31:GLN:HB3	9:C6:81:LEU:HD13	1.99	0.45
6:B6:21:ASP:HB3	6:B6:127:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:131:ASN:C	6:B6:131:ASN:HD22	2.25	0.45
4:BE:120:GLN:HE21	10:CE:80:LEU:CD1	2.26	0.45
7:BG:35:PHE:CE2	7:BG:39:LEU:HD11	2.51	0.45
7:BG:72:LEU:O	7:BG:73:ARG:C	2.58	0.45
6:BI:65:GLU:HA	5:CG:92:ALA:CB	2.45	0.45
6:BI:68:SER:HA	5:CG:83:MET:CE	2.45	0.45
7:BL:9:GLU:HA	7:BL:12:HIS:CE1	2.52	0.45
5:BM:51:ALA:HB3	5:BM:52:PRO:HD3	1.97	0.45
6:BS:21:ASP:HB3	6:BS:127:LEU:HD13	1.99	0.45
4:BU:73:ASP:O	4:BU:74:ILE:C	2.59	0.45
7:BV:9:GLU:HA	7:BV:12:HIS:CE1	2.52	0.45
5:BW:107:LYS:HE2	5:BW:110:PHE:CZ	2.52	0.45
6:BX:19:TRP:C	6:BX:21:ASP:N	2.75	0.45
4:BY:120:GLN:HE21	10:CY:80:LEU:CD1	2.26	0.45
6:Bc:21:ASP:HB3	6:Bc:127:LEU:HD13	1.99	0.45
4:Bd:85:LEU:O	4:Bd:86:LYS:C	2.59	0.45
6:Bh:64:GLY:HA2	6:Bh:67:LYS:HB2	1.98	0.45
6:Bh:96:HIS:CD2	5:Cf:72:ARG:CD	3.00	0.45
6:Bh:150:LEU:CB	6:Bh:151:PRO:HD3	2.46	0.45
7:Bk:72:LEU:O	7:Bk:73:ARG:C	2.58	0.45
7:Bk:99:ALA:HA	7:Bk:147:ILE:O	2.16	0.45
7:Bp:9:GLU:HA	7:Bp:12:HIS:CE1	2.52	0.45
5:Bq:49:ILE:C	5:Bq:51:ALA:N	2.73	0.45
6:Bw:60:GLU:O	6:Bw:63:SER:HB3	2.17	0.45
8:C0:18:ASN:HD21	10:C2:16:LYS:HB3	1.81	0.45
9:C1:173:ASN:HD22	9:C1:174:PHE:N	2.15	0.45
10:C2:69:CYS:SG	10:C2:75:GLN:HB3	2.57	0.45
5:C4:75:SER:O	5:C4:78:ASP:HB3	2.17	0.45
9:CD:38:ALA:HB3	10:CE:35:LEU:HD11	1.87	0.45
8:CH:11:GLN:CA	10:CJ:13:ILE:CD1	2.78	0.45
8:CH:12:TYR:HB3	8:CH:13:LEU:H	1.32	0.45
8:CH:18:ASN:HD21	10:CJ:16:LYS:HB3	1.81	0.45
8:CH:35:TYR:CE1	10:CJ:34:LEU:HB2	2.48	0.45
8:CH:87:LYS:HB2	8:CH:87:LYS:HE2	1.66	0.45
9:CI:13:ARG:HH12	10:CJ:14:ILE:CB	2.28	0.45
9:CI:138:ARG:HA	9:CI:138:ARG:HD3	1.73	0.45
10:CJ:184:ASP:OD2	10:CJ:186:LEU:HG	2.16	0.45
7:CK:45:LYS:HA	7:CK:45:LYS:HE3	1.99	0.45
10:CO:24:ILE:C	10:CO:26:THR:N	2.75	0.45
7:CP:45:LYS:HA	7:CP:45:LYS:HE3	1.99	0.45
5:CQ:17:VAL:HG13	5:CQ:135:TRP:CZ2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CS:35:LEU:HA	10:CT:35:LEU:HD11	1.99	0.45
5:CV:51:ALA:HB3	5:CV:52:PRO:HD3	1.97	0.45
10:CY:69:CYS:SG	10:CY:75:GLN:HB3	2.57	0.45
8:Cb:10:PHE:HZ	9:Cc:10:LEU:HB3	1.82	0.45
9:Cc:23:ARG:CZ	10:Cs:18:ILE:CD1	2.94	0.45
10:Cd:81:PHE:HD1	10:Cd:81:PHE:HA	1.48	0.45
8:Cg:18:ASN:CA	10:Ci:16:LYS:HZ3	2.29	0.45
10:Ci:18:ILE:HG23	10:Ci:19:GLU:H	1.81	0.45
8:Cl:172:ASN:HB3	8:Cl:175:LYS:HB3	1.97	0.45
7:Co:45:LYS:HA	7:Co:45:LYS:HE3	1.99	0.45
9:Cr:96:ASP:HA	9:Cr:97:PRO:HD3	1.49	0.45
10:Cs:24:ILE:C	10:Cs:26:THR:N	2.75	0.45
10:Cs:197:PHE:HB3	10:Cs:199:ARG:CB	2.37	0.45
7:Ct:45:LYS:HA	7:Ct:45:LYS:HE3	1.99	0.45
5:Cu:17:VAL:HG13	5:Cu:135:TRP:CZ2	2.52	0.45
5:Cu:102:VAL:HG13	5:Cu:103:GLU:N	2.32	0.45
8:Cv:34:GLU:HA	8:Cv:37:LYS:CE	2.45	0.45
8:Cv:81:LEU:H	8:Cv:81:LEU:HG	1.59	0.45
8:Cv:87:LYS:HB2	8:Cv:87:LYS:HE2	1.66	0.45
9:Cw:77:ILE:HG21	9:Cw:88:ASP:CG	2.42	0.45
10:Cx:78:SER:O	10:Cx:81:PHE:HB2	2.16	0.45
7:Cy:6:CYS:HB2	7:Cy:7:CYS:H	1.51	0.45
3:AF:132:VAL:HG13	3:AF:133:ASP:N	2.32	0.45
1:AM:12:HIS:HB2	1:AM:85:LEU:HD13	1.98	0.45
2:AN:31:ARG:O	2:AN:32:VAL:C	2.60	0.45
3:AT:123:LEU:HA	3:AT:126:VAL:CG2	2.46	0.45
2:AX:84:LEU:HD11	2:AX:142:ILE:HD11	1.98	0.45
3:AZ:57:LYS:HD2	3:AZ:65:GLU:HG3	1.98	0.45
3:An:96:HIS:O	3:An:100:GLN:HG3	2.16	0.45
3:An:131:ASN:C	3:An:131:ASN:HD22	2.25	0.45
1:Aq:12:HIS:HB2	1:Aq:85:LEU:HD13	1.98	0.45
2:Ar:31:ARG:O	2:Ar:32:VAL:C	2.60	0.45
2:Ar:80:THR:CG2	2:Ar:97:LEU:HD11	2.47	0.45
1:Av:12:HIS:HB2	1:Av:85:LEU:HD13	1.98	0.45
1:Av:72:LEU:O	1:Av:73:ARG:C	2.59	0.45
3:Ay:132:VAL:HG13	3:Ay:133:ASP:N	2.32	0.45
5:B0:107:LYS:HE2	5:B0:110:PHE:CZ	2.52	0.45
6:B6:57:LYS:HD2	6:B6:65:GLU:HG3	2.00	0.45
7:BB:9:GLU:HA	7:BB:12:HIS:CE1	2.52	0.45
6:BD:96:HIS:CD2	5:CB:72:ARG:CD	3.00	0.45
4:BF:101:ILE:HB	4:BF:106:PHE:HE1	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:99:ALA:HA	7:BG:147:ILE:O	2.16	0.45
5:BH:49:ILE:C	5:BH:51:ALA:N	2.73	0.45
6:BI:69:HIS:O	6:BI:70:LEU:C	2.60	0.45
6:BN:60:GLU:O	6:BN:63:SER:HB3	2.17	0.45
6:BN:69:HIS:O	6:BN:70:LEU:C	2.60	0.45
7:BQ:45:LYS:HA	7:BQ:45:LYS:HE3	1.98	0.45
6:BS:60:GLU:O	6:BS:63:SER:HB3	2.17	0.45
6:BS:69:HIS:O	6:BS:70:LEU:C	2.60	0.45
6:BS:96:HIS:CD2	5:CQ:72:ARG:CD	3.00	0.45
6:BS:145:ARG:CA	6:BS:148:LYS:HB2	2.44	0.45
6:BX:19:TRP:CD2	6:BX:81:ILE:CD1	3.00	0.45
4:BZ:31:GLN:HB3	9:Cc:81:LEU:HD13	1.99	0.45
4:BZ:73:ASP:O	4:BZ:74:ILE:C	2.59	0.45
5:Bb:14:SER:OG	5:Bb:15:LEU:N	2.49	0.45
4:Bd:24:HIS:O	4:Bd:25:ASP:C	2.59	0.45
6:Bh:65:GLU:H	6:Bh:65:GLU:HG2	1.64	0.45
4:Bj:101:ILE:HB	4:Bj:106:PHE:HE1	1.82	0.45
7:Bk:35:PHE:CE2	7:Bk:39:LEU:HD11	2.51	0.45
7:Bk:87:ASP:OD1	7:Bk:89:PRO:HG2	2.17	0.45
5:Bl:51:ALA:HB3	5:Bl:52:PRO:HD3	1.97	0.45
6:Br:60:GLU:O	6:Br:63:SER:HB3	2.17	0.45
6:Bw:19:TRP:CD2	6:Bw:81:ILE:CD1	3.00	0.45
6:Bw:94:LEU:HD12	6:Bw:94:LEU:HA	1.84	0.45
6:Bw:96:HIS:CD2	5:Cu:72:ARG:CD	3.00	0.45
6:Bw:145:ARG:CA	6:Bw:148:LYS:HB2	2.44	0.45
7:Bz:9:GLU:HA	7:Bz:12:HIS:CE1	2.52	0.45
8:C0:11:GLN:CA	10:C2:13:ILE:CD1	2.78	0.45
9:C1:147:LEU:CD2	9:C1:171:TYR:HA	2.47	0.45
10:C2:93:GLU:C	10:C2:95:GLU:N	2.73	0.45
8:C5:10:PHE:HZ	9:C6:10:LEU:HB3	1.82	0.45
9:C6:23:ARG:CZ	10:CO:18:ILE:CD1	2.94	0.45
9:C6:29:GLU:O	9:C6:32:ARG:HB2	2.18	0.45
5:CB:17:VAL:HG13	5:CB:135:TRP:CZ2	2.52	0.45
9:CD:35:LEU:HA	10:CE:35:LEU:HD11	1.99	0.45
10:CE:17:LEU:HD12	10:CE:17:LEU:C	2.40	0.45
5:CG:97:LEU:HB3	5:CG:146:ILE:HG23	1.98	0.45
9:CI:147:LEU:CD2	9:CI:171:TYR:HA	2.47	0.45
9:CI:177:ARG:HG2	9:CI:197:PHE:CD2	2.51	0.45
7:CK:70:HIS:O	7:CK:71:ALA:C	2.60	0.45
7:CK:87:ASP:OD1	7:CK:89:PRO:HG2	2.16	0.45
8:CM:149:ALA:HB3	8:CM:180:LEU:HD13	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:50:ILE:HD12	10:CO:50:LEU:CD2	2.43	0.45
9:CN:89:CYS:SG	9:CN:92:ALA:HB1	2.56	0.45
10:CO:69:CYS:SG	10:CO:75:GLN:HB3	2.57	0.45
8:CR:184:LYS:C	8:CR:186:GLN:H	2.23	0.45
9:CS:77:ILE:HG21	9:CS:88:ASP:CG	2.42	0.45
8:CW:202:ASP:OD1	8:CW:224:ARG:HD2	2.16	0.45
9:CX:147:LEU:CD2	9:CX:171:TYR:HA	2.47	0.45
9:Cc:29:GLU:O	9:Cc:32:ARG:HB2	2.18	0.45
10:Cd:78:SER:O	10:Cd:81:PHE:HB2	2.16	0.45
9:Ch:35:LEU:HA	10:Ci:35:LEU:HD11	1.99	0.45
9:Ch:147:LEU:CD2	9:Ch:171:TYR:HA	2.47	0.45
10:Ci:17:LEU:HD12	10:Ci:17:LEU:C	2.40	0.45
5:Ck:97:LEU:HB3	5:Ck:146:ILE:HG23	1.98	0.45
8:Cl:18:ASN:HD21	10:Cn:16:LYS:HB3	1.81	0.45
8:Cl:155:LEU:CD1	8:Cl:161:THR:HB	2.36	0.45
9:Cm:13:ARG:HH12	10:Cn:14:ILE:CB	2.28	0.45
9:Cm:177:ARG:HG2	9:Cm:197:PHE:CD2	2.51	0.45
9:Cr:50:ILE:HD12	10:Cs:50:LEU:CD2	2.43	0.45
10:Cs:69:CYS:SG	10:Cs:75:GLN:HB3	2.57	0.45
8:Cv:149:ALA:HB3	8:Cv:180:LEU:HD13	1.98	0.45
9:Cw:50:ILE:HD12	10:Cx:50:LEU:CD2	2.43	0.45
10:Cx:17:LEU:HD12	10:Cx:17:LEU:C	2.40	0.45
3:A2:69:HIS:O	3:A2:70:LEU:C	2.59	0.44
3:AA:123:LEU:HA	3:AA:126:VAL:CG2	2.47	0.44
3:AA:131:ASN:HD22	3:AA:131:ASN:C	2.25	0.44
1:AC:14:ILE:O	1:AC:15:VAL:C	2.60	0.44
2:AD:31:ARG:O	2:AD:32:VAL:C	2.60	0.44
3:AF:13:ARG:NE	8:CH:215:PHE:CZ	2.85	0.44
3:AJ:131:ASN:C	3:AJ:131:ASN:HD22	2.25	0.44
3:AK:27:PHE:HB2	3:AK:28:THR:H	1.59	0.44
2:AN:80:THR:CG2	2:AN:97:LEU:HD11	2.47	0.44
2:AN:84:LEU:HD11	2:AN:142:ILE:HD11	1.98	0.44
1:AR:72:LEU:O	1:AR:73:ARG:C	2.59	0.44
3:AT:69:HIS:O	3:AT:70:LEU:C	2.59	0.44
3:AT:94:LEU:HD12	3:AT:94:LEU:HA	1.84	0.44
3:AY:108:THR:H	3:AY:111:TYR:HD2	1.63	0.44
3:Ae:57:LYS:HD2	3:Ae:65:GLU:HG3	1.98	0.44
3:Ae:81:ILE:C	3:Ae:83:LEU:H	2.24	0.44
3:Ae:123:LEU:HA	3:Ae:126:VAL:CG2	2.47	0.44
3:Ae:131:ASN:C	3:Ae:131:ASN:HD22	2.25	0.44
3:Ae:136:ASN:HD22	3:Ae:136:ASN:HA	1.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ag:14:ILE:O	1:Ag:15:VAL:C	2.60	0.44
2:Ah:31:ARG:O	2:Ah:32:VAL:C	2.60	0.44
3:Ax:69:HIS:O	3:Ax:70:LEU:C	2.59	0.44
3:Ax:128:SER:O	3:Ax:129:CYS:HB2	2.16	0.44
3:Ay:19:TRP:C	3:Ay:21:ASP:N	2.75	0.44
6:B1:21:ASP:HB3	6:B1:127:LEU:HD13	1.99	0.44
6:B1:69:HIS:O	6:B1:70:LEU:C	2.60	0.44
4:B2:120:GLN:HE21	10:C2:80:LEU:CD1	2.26	0.44
7:B4:87:ASP:OD1	7:B4:89:PRO:HG2	2.17	0.44
5:B5:14:SER:OG	5:B5:15:LEU:N	2.49	0.44
6:BD:64:GLY:HA2	6:BD:67:LYS:HB2	1.98	0.44
5:BH:51:ALA:HB3	5:BH:52:PRO:HD3	1.97	0.44
4:BK:101:ILE:HA	4:BK:102:PRO:HD3	1.47	0.44
6:BN:21:ASP:HB3	6:BN:127:LEU:HD13	1.99	0.44
6:BS:15:ILE:O	6:BS:17:HIS:N	2.50	0.44
6:BS:19:TRP:CD2	6:BS:81:ILE:CD1	3.00	0.44
6:BX:69:HIS:O	6:BX:70:LEU:C	2.60	0.44
6:BX:131:ASN:HD22	6:BX:131:ASN:C	2.25	0.44
6:Bc:57:LYS:HD2	6:Bc:65:GLU:HG3	2.00	0.44
4:Be:101:ILE:HA	4:Be:102:PRO:HD3	1.47	0.44
7:Bf:9:GLU:HA	7:Bf:12:HIS:CE1	2.52	0.44
7:Bf:96:ASP:O	7:Bf:99:ALA:HB3	2.17	0.44
4:Bi:81:GLN:H	4:Bi:81:GLN:HG3	1.47	0.44
4:Bi:85:LEU:O	4:Bi:86:LYS:C	2.59	0.44
4:Bi:120:GLN:HE21	10:Bi:80:LEU:CD1	2.26	0.44
6:Bm:68:SER:HA	5:Ck:83:MET:CE	2.45	0.44
6:Bm:69:HIS:O	6:Bm:70:LEU:C	2.60	0.44
4:Bo:101:ILE:HA	4:Bo:102:PRO:HD3	1.47	0.44
6:Br:21:ASP:HB3	6:Br:127:LEU:HD13	1.99	0.44
6:Br:69:HIS:O	6:Br:70:LEU:C	2.60	0.44
6:Bw:15:ILE:O	6:Bw:17:HIS:N	2.50	0.44
8:C0:35:TYR:OH	10:C2:34:LEU:HB3	2.15	0.44
10:C2:157:ASP:CG	9:Cw:138:ARG:CD	2.90	0.44
10:C7:78:SER:O	10:C7:81:PHE:HB2	2.16	0.44
10:CE:18:ILE:HG23	10:CE:19:GLU:H	1.81	0.44
9:CI:77:ILE:HG21	9:CI:88:ASP:CG	2.42	0.44
8:CM:18:ASN:HD21	10:CO:16:LYS:HB3	1.81	0.44
9:CN:57:ILE:HG21	10:CO:57:LEU:CG	2.27	0.44
8:CR:87:LYS:HB2	8:CR:87:LYS:HE2	1.66	0.44
8:CR:117:TRP:CD1	8:CR:121:GLU:CB	2.92	0.44
8:CR:132:ILE:HD13	8:CR:149:ALA:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CR:149:ALA:HB3	8:CR:180:LEU:HD13	1.98	0.44
9:CS:50:ILE:HD12	10:CT:50:LEU:CD2	2.43	0.44
9:CS:138:ARG:CD	10:CY:157:ASP:CG	2.90	0.44
7:CU:113:PHE:O	7:CU:114:LYS:C	2.60	0.44
8:CW:51:LYS:NZ	10:CY:46:LYS:HE3	2.31	0.44
9:CX:173:ASN:HD22	9:CX:174:PHE:N	2.15	0.44
8:Cb:87:LYS:HE2	8:Cb:87:LYS:HB2	1.66	0.44
5:Cf:17:VAL:HG13	5:Cf:135:TRP:CZ2	2.52	0.44
8:Cg:35:TYR:OH	10:Ci:34:LEU:HB3	2.15	0.44
8:Cg:140:PHE:HD1	8:Cg:140:PHE:H	1.65	0.44
10:Ci:59:ASP:HA	10:Ci:60:PRO:HD3	1.35	0.44
8:Cl:132:ILE:HD13	8:Cl:149:ALA:HB2	1.99	0.44
9:Cm:77:ILE:HG21	9:Cm:88:ASP:CG	2.42	0.44
9:Cm:147:LEU:CD2	9:Cm:171:TYR:HA	2.47	0.44
10:Cn:184:ASP:OD2	10:Cn:186:LEU:HG	2.16	0.44
7:Co:70:HIS:O	7:Co:71:ALA:C	2.60	0.44
7:Co:87:ASP:OD1	7:Co:89:PRO:HG2	2.16	0.44
5:Cp:103:GLU:HB2	5:Cp:104:ARG:HD3	1.97	0.44
9:Cr:57:ILE:HG21	10:Cs:57:LEU:CG	2.27	0.44
9:Cr:77:ILE:HG21	9:Cr:88:ASP:CG	2.42	0.44
10:Cs:78:SER:O	10:Cs:81:PHE:HB2	2.16	0.44
8:Cv:132:ILE:HD13	8:Cv:149:ALA:HB2	1.99	0.44
8:Cv:184:LYS:C	8:Cv:186:GLN:H	2.23	0.44
7:Cy:113:PHE:O	7:Cy:114:LYS:C	2.60	0.44
5:Cz:51:ALA:HB3	5:Cz:52:PRO:HD3	1.97	0.44
2:A1:31:ARG:O	2:A1:32:VAL:C	2.60	0.44
3:AA:13:ARG:NE	8:CC:215:PHE:CZ	2.85	0.44
3:AA:57:LYS:HD2	3:AA:65:GLU:HG3	1.98	0.44
3:AO:131:ASN:HD22	3:AO:131:ASN:C	2.25	0.44
3:AP:27:PHE:HB2	3:AP:28:THR:H	1.59	0.44
1:AR:14:ILE:O	1:AR:15:VAL:C	2.60	0.44
3:AT:128:SER:O	3:AT:129:CYS:HB2	2.16	0.44
3:AU:86:ASP:O	3:AU:87:THR:C	2.61	0.44
3:AU:132:VAL:HG13	3:AU:133:ASP:N	2.32	0.44
4:AV:79:LEU:HD12	4:AV:79:LEU:HA	1.66	0.44
3:AZ:132:VAL:HG13	3:AZ:133:ASP:N	2.32	0.44
3:Aj:13:ARG:NE	8:Cl:215:PHE:CZ	2.85	0.44
3:Aj:123:LEU:O	3:Aj:127:LEU:HD23	2.16	0.44
3:An:102:ILE:CA	3:An:150:LEU:HG	2.39	0.44
2:Ar:84:LEU:HD11	2:Ar:142:ILE:HD11	1.98	0.44
3:Ax:123:LEU:HA	3:Ax:126:VAL:CG2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ay:86:ASP:O	3:Ay:87:THR:C	2.61	0.44
5:B0:143:ILE:O	5:B0:147:LYS:HG2	2.17	0.44
6:B1:131:ASN:C	6:B1:131:ASN:HD22	2.25	0.44
7:BB:96:ASP:O	7:BB:99:ALA:HB3	2.17	0.44
6:BD:80:LEU:HD22	6:BD:94:LEU:HD13	1.99	0.44
7:BG:87:ASP:OD1	7:BG:89:PRO:HG2	2.17	0.44
4:BJ:59:PRO:HB2	7:CF:89:PRO:HB2	1.98	0.44
7:BL:35:PHE:CE2	7:BL:39:LEU:HD11	2.51	0.44
4:BO:84:THR:O	4:BO:85:LEU:C	2.61	0.44
4:BO:85:LEU:O	4:BO:86:LYS:C	2.59	0.44
4:BP:130:TRP:O	4:BP:131:ASP:C	2.60	0.44
7:BQ:87:ASP:OD1	7:BQ:89:PRO:HG2	2.17	0.44
6:BS:131:ASN:C	6:BS:131:ASN:HD22	2.25	0.44
4:BU:92:LEU:O	4:BU:93:GLN:C	2.60	0.44
5:BW:143:ILE:O	5:BW:147:LYS:HG2	2.17	0.44
6:BX:21:ASP:HB3	6:BX:127:LEU:HD13	1.99	0.44
4:BZ:28:ALA:O	4:BZ:29:PHE:C	2.57	0.44
6:Bc:69:HIS:O	6:Bc:70:LEU:C	2.60	0.44
6:Bc:96:HIS:CD2	5:Ca:72:ARG:CD	3.00	0.44
4:Bn:59:PRO:HB2	7:Cj:89:PRO:HB2	1.98	0.44
6:Br:57:LYS:HD2	6:Br:65:GLU:HG3	2.00	0.44
6:Br:96:HIS:CD2	5:Cp:72:ARG:CD	3.00	0.44
4:Bs:84:THR:O	4:Bs:85:LEU:C	2.61	0.44
4:Bt:101:ILE:HA	4:Bt:102:PRO:HD3	1.47	0.44
7:Bu:9:GLU:HA	7:Bu:12:HIS:CE1	2.52	0.44
7:Bu:45:LYS:HE3	7:Bu:45:LYS:HA	1.98	0.44
8:C0:51:LYS:NZ	10:C2:46:LYS:HE3	2.31	0.44
9:C1:77:ILE:HG21	9:C1:88:ASP:CG	2.42	0.44
7:C3:87:ASP:OD1	7:C3:89:PRO:HG2	2.16	0.44
8:C5:117:TRP:CD1	8:C5:121:GLU:CB	2.92	0.44
7:CA:87:ASP:OD1	7:CA:89:PRO:HG2	2.16	0.44
8:CC:114:LEU:HD12	8:CC:126:ASP:C	2.43	0.44
8:CC:140:PHE:H	8:CC:140:PHE:HD1	1.65	0.44
9:CD:147:LEU:CD2	9:CD:171:TYR:HA	2.47	0.44
8:CH:14:VAL:HG21	10:CJ:13:ILE:HG21	0.47	0.44
8:CH:51:LYS:NZ	10:CJ:46:LYS:HE3	2.31	0.44
8:CH:132:ILE:HD13	8:CH:149:ALA:HB2	1.99	0.44
8:CH:140:PHE:HD1	8:CH:140:PHE:H	1.66	0.44
9:CI:138:ARG:CD	10:CO:157:ASP:CG	2.90	0.44
5:CL:103:GLU:HB2	5:CL:104:ARG:HD3	1.97	0.44
8:CM:225:TYR:CD1	8:CM:225:TYR:N	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:77:ILE:HG21	9:CN:88:ASP:CG	2.42	0.44
9:CN:210:VAL:HB	9:CN:216:HIS:O	2.18	0.44
8:CR:219:HIS:ND1	8:CR:219:HIS:C	2.75	0.44
9:CS:29:GLU:O	9:CS:32:ARG:HB2	2.18	0.44
10:CT:17:LEU:HD12	10:CT:17:LEU:C	2.40	0.44
8:CW:11:GLN:CA	10:CY:13:ILE:CD1	2.78	0.44
8:CW:117:TRP:CD1	8:CW:121:GLU:CB	2.92	0.44
8:Cb:13:LEU:HG	8:Cb:14:VAL:N	2.32	0.44
8:Cg:114:LEU:HD12	8:Cg:126:ASP:C	2.43	0.44
8:Cl:35:TYR:CE1	10:Cn:34:LEU:HB2	2.48	0.44
8:Cl:140:PHE:H	8:Cl:140:PHE:HD1	1.66	0.44
10:Cn:78:SER:O	10:Cn:81:PHE:HB2	2.16	0.44
5:Cp:97:LEU:HB3	5:Cp:146:ILE:HG23	1.98	0.44
9:Cr:89:CYS:SG	9:Cr:92:ALA:HB1	2.56	0.44
5:Cu:97:LEU:HB3	5:Cu:146:ILE:HG23	1.98	0.44
9:Cw:121:LEU:HD23	9:Cw:121:LEU:HA	1.82	0.44
2:AD:127:GLY:O	5:CB:62:TYR:HE2	2.00	0.44
3:AE:102:ILE:CA	3:AE:150:LEU:HG	2.38	0.44
3:AF:18:ILE:HG21	3:AF:130:PHE:HD1	1.77	0.44
2:AI:127:GLY:O	5:CG:62:TYR:HE2	2.00	0.44
3:AJ:86:ASP:O	3:AJ:87:THR:C	2.61	0.44
3:AP:18:ILE:CG2	3:AP:130:PHE:HD1	2.30	0.44
1:AR:31:ILE:O	1:AR:32:LYS:C	2.60	0.44
3:AT:79:LEU:HD13	3:AT:79:LEU:C	2.43	0.44
3:AT:86:ASP:O	3:AT:87:THR:C	2.61	0.44
3:AU:19:TRP:C	3:AU:21:ASP:H	2.23	0.44
3:AU:136:ASN:HD22	3:AU:136:ASN:HA	1.56	0.44
2:AX:31:ARG:O	2:AX:32:VAL:C	2.60	0.44
2:AX:80:THR:CG2	2:AX:97:LEU:HD11	2.47	0.44
3:AY:69:HIS:O	3:AY:70:LEU:C	2.59	0.44
3:Ae:13:ARG:NE	8:Cg:215:PHE:CZ	2.85	0.44
1:Av:14:ILE:O	1:Av:15:VAL:C	2.60	0.44
2:Aw:80:THR:CG2	2:Aw:97:LEU:HD11	2.47	0.44
3:Ax:79:LEU:HD13	3:Ax:79:LEU:C	2.43	0.44
3:Ax:86:ASP:O	3:Ax:87:THR:C	2.61	0.44
5:B0:17:VAL:HG13	5:B0:135:TRP:CZ2	2.53	0.44
6:B6:69:HIS:O	6:B6:70:LEU:C	2.60	0.44
6:B6:96:HIS:CD2	5:C4:72:ARG:CD	3.00	0.44
6:BD:21:ASP:HB3	6:BD:127:LEU:HD13	1.99	0.44
4:BE:85:LEU:O	4:BE:86:LYS:C	2.59	0.44
7:BG:96:ASP:O	7:BG:99:ALA:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BI:80:LEU:HD22	6:BI:94:LEU:HD13	2.00	0.44
6:BN:57:LYS:HD2	6:BN:65:GLU:HG3	2.00	0.44
6:BN:96:HIS:CD2	5:CL:72:ARG:CD	3.00	0.44
4:BP:92:LEU:O	4:BP:93:GLN:C	2.60	0.44
4:BT:92:LEU:O	4:BT:93:GLN:C	2.61	0.44
5:BW:17:VAL:HG13	5:BW:135:TRP:CZ2	2.53	0.44
6:BX:57:LYS:HD2	6:BX:65:GLU:HG3	1.99	0.44
6:BX:60:GLU:O	6:BX:63:SER:HB3	2.17	0.44
4:BZ:101:ILE:HB	4:BZ:106:PHE:HE1	1.82	0.44
7:Ba:87:ASP:OD1	7:Ba:89:PRO:HG2	2.17	0.44
6:Bh:21:ASP:HB3	6:Bh:127:LEU:HD13	1.99	0.44
6:Bh:80:LEU:HD22	6:Bh:94:LEU:HD13	1.99	0.44
6:Bm:80:LEU:HD22	6:Bm:94:LEU:HD13	2.00	0.44
4:Bo:73:ASP:O	4:Bo:74:ILE:C	2.59	0.44
7:Bp:35:PHE:CE2	7:Bp:39:LEU:HD11	2.51	0.44
6:Br:94:LEU:HD12	6:Br:94:LEU:HA	1.84	0.44
4:Bs:85:LEU:O	4:Bs:86:LYS:C	2.59	0.44
4:Bt:92:LEU:O	4:Bt:93:GLN:C	2.60	0.44
4:Bx:92:LEU:O	4:Bx:93:GLN:C	2.61	0.44
4:By:92:LEU:O	4:By:93:GLN:C	2.60	0.44
9:C1:29:GLU:O	9:C1:32:ARG:HB2	2.18	0.44
9:C1:147:LEU:HD23	9:C1:171:TYR:HA	1.99	0.44
9:C1:199:ARG:CG	9:C1:204:ARG:HB2	2.40	0.44
8:C5:13:LEU:HG	8:C5:14:VAL:N	2.32	0.44
9:C6:77:ILE:HG21	9:C6:88:ASP:CG	2.42	0.44
10:C7:81:PHE:HD1	10:C7:81:PHE:HA	1.48	0.44
9:CD:147:LEU:HD23	9:CD:171:TYR:HA	1.99	0.44
9:CI:35:LEU:HA	10:CJ:35:LEU:HD11	1.99	0.44
9:CI:57:ILE:HD11	10:CJ:54:VAL:CA	2.45	0.44
9:CI:139:LYS:HZ3	10:CO:158:GLU:HB2	1.82	0.44
10:CJ:78:SER:O	10:CJ:81:PHE:HB2	2.16	0.44
10:CJ:100:LEU:H	10:CJ:100:LEU:HG	1.60	0.44
5:CL:17:VAL:HG13	5:CL:135:TRP:CZ2	2.52	0.44
5:CL:97:LEU:HB3	5:CL:146:ILE:HG23	1.98	0.44
9:CN:173:ASN:HD22	9:CN:174:PHE:N	2.14	0.44
10:CO:69:CYS:HB3	10:CO:89:CYS:SG	2.58	0.44
10:CO:78:SER:O	10:CO:81:PHE:HB2	2.16	0.44
5:CQ:97:LEU:HB3	5:CQ:146:ILE:HG23	1.98	0.44
5:CV:57:ARG:HG2	5:CV:57:ARG:NH1	2.32	0.44
8:CW:35:TYR:OH	10:CY:34:LEU:HB3	2.15	0.44
8:CW:78:HIS:ND1	8:CW:80:LEU:HB2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CX:29:GLU:O	9:CX:32:ARG:HB2	2.18	0.44
9:CX:77:ILE:HG21	9:CX:88:ASP:CG	2.42	0.44
9:CX:147:LEU:HD23	9:CX:171:TYR:HA	1.99	0.44
9:CX:199:ARG:CG	9:CX:204:ARG:HB2	2.40	0.44
7:CZ:87:ASP:OD1	7:CZ:89:PRO:HG2	2.16	0.44
7:CZ:113:PHE:O	7:CZ:114:LYS:C	2.60	0.44
8:Cb:35:TYR:OH	10:Cd:34:LEU:HB3	2.15	0.44
8:Cb:176:ARG:HB3	8:Cb:176:ARG:HE	1.55	0.44
8:Cb:219:HIS:ND1	8:Cb:219:HIS:C	2.75	0.44
9:Cc:77:ILE:HG21	9:Cc:88:ASP:CG	2.42	0.44
7:Ce:87:ASP:OD1	7:Ce:89:PRO:HG2	2.16	0.44
9:Ch:147:LEU:HD23	9:Ch:171:TYR:HA	1.99	0.44
8:Cl:11:GLN:CA	10:Cn:13:ILE:CD1	2.78	0.44
8:Cl:51:LYS:NZ	10:Cn:46:LYS:HE3	2.31	0.44
9:Cm:138:ARG:CD	10:Cs:157:ASP:CG	2.90	0.44
5:Cp:17:VAL:HG13	5:Cp:135:TRP:CZ2	2.52	0.44
8:Cq:18:ASN:HD21	10:Cs:16:LYS:HB3	1.81	0.44
8:Cq:225:TYR:CD1	8:Cq:225:TYR:N	2.85	0.44
9:Cr:210:VAL:HB	9:Cr:216:HIS:O	2.18	0.44
10:Cs:69:CYS:HB3	10:Cs:89:CYS:SG	2.58	0.44
8:Cv:219:HIS:ND1	8:Cv:219:HIS:C	2.75	0.44
9:Cw:29:GLU:O	9:Cw:32:ARG:HB2	2.18	0.44
9:Cw:89:CYS:SG	9:Cw:92:ALA:HB1	2.56	0.44
10:Cx:180:PRO:HA	10:Cx:181:PRO:HD2	1.40	0.44
1:A0:31:ILE:O	1:A0:32:LYS:C	2.60	0.44
2:A1:17:VAL:HG13	2:A1:135:TRP:CE2	2.53	0.44
2:A1:80:THR:CG2	2:A1:97:LEU:HD11	2.47	0.44
3:A2:79:LEU:HD13	3:A2:79:LEU:C	2.43	0.44
3:A3:13:ARG:NE	8:C5:215:PHE:CZ	2.85	0.44
3:A3:27:PHE:N	3:A3:27:PHE:CD1	2.86	0.44
4:A4:73:ASP:O	4:A4:74:ILE:C	2.61	0.44
3:A7:86:ASP:O	3:A7:87:THR:C	2.61	0.44
3:AA:132:VAL:HG13	3:AA:133:ASP:N	2.32	0.44
3:AF:123:LEU:O	3:AF:127:LEU:HD23	2.16	0.44
3:AF:150:LEU:HD23	3:AF:150:LEU:N	2.24	0.44
1:AH:32:LYS:HG2	1:AH:75:LEU:HD12	1.98	0.44
2:AI:31:ARG:HB3	2:AI:71:GLN:HE22	1.83	0.44
1:AM:12:HIS:O	1:AM:13:ARG:C	2.60	0.44
2:AN:17:VAL:HG13	2:AN:135:TRP:CE2	2.53	0.44
3:AO:79:LEU:HD13	3:AO:79:LEU:C	2.43	0.44
3:AP:57:LYS:HD2	3:AP:65:GLU:HG3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AP:123:LEU:HA	3:AP:126:VAL:CG2	2.47	0.44
2:AS:80:THR:CG2	2:AS:97:LEU:HD11	2.47	0.44
3:AT:136:ASN:HD22	3:AT:136:ASN:HA	1.58	0.44
3:AU:19:TRP:C	3:AU:21:ASP:N	2.75	0.44
1:AW:31:ILE:O	1:AW:32:LYS:C	2.60	0.44
2:AX:17:VAL:HG13	2:AX:135:TRP:CE2	2.53	0.44
3:AY:79:LEU:HD13	3:AY:79:LEU:C	2.43	0.44
3:AZ:13:ARG:NE	8:Cb:215:PHE:CZ	2.85	0.44
3:AZ:27:PHE:N	3:AZ:27:PHE:CD1	2.86	0.44
4:Aa:73:ASP:O	4:Aa:74:ILE:C	2.61	0.44
3:Ad:86:ASP:O	3:Ad:87:THR:C	2.61	0.44
2:Am:31:ARG:HB3	2:Am:71:GLN:HE22	1.83	0.44
2:Am:127:GLY:O	5:Ck:62:TYR:HE2	2.00	0.44
3:An:86:ASP:O	3:An:87:THR:C	2.61	0.44
3:As:79:LEU:HD13	3:As:79:LEU:C	2.43	0.44
3:At:18:ILE:CG2	3:At:130:PHE:HD1	2.30	0.44
3:At:123:LEU:HA	3:At:126:VAL:CG2	2.47	0.44
1:Av:31:ILE:O	1:Av:32:LYS:C	2.60	0.44
3:Ay:19:TRP:C	3:Ay:21:ASP:H	2.23	0.44
6:B1:57:LYS:HD2	6:B1:65:GLU:HG3	1.99	0.44
6:B1:60:GLU:O	6:B1:63:SER:HB3	2.17	0.44
4:BE:76:ILE:HA	4:BE:79:LEU:CD2	2.27	0.44
5:BH:107:LYS:HB2	5:BH:110:PHE:CE2	2.52	0.44
6:BI:57:LYS:HD2	6:BI:65:GLU:HG3	1.99	0.44
6:BI:71:VAL:HB	5:CG:83:MET:CE	2.46	0.44
4:BJ:84:THR:O	4:BJ:85:LEU:C	2.61	0.44
4:BJ:92:LEU:O	4:BJ:93:GLN:C	2.61	0.44
7:BQ:9:GLU:HA	7:BQ:12:HIS:CE1	2.52	0.44
5:BR:14:SER:OG	5:BR:15:LEU:N	2.49	0.44
7:BV:87:ASP:OD1	7:BV:89:PRO:HG2	2.17	0.44
7:Bk:96:ASP:O	7:Bk:99:ALA:HB3	2.17	0.44
5:Bl:107:LYS:HB2	5:Bl:110:PHE:CE2	2.52	0.44
4:Bn:92:LEU:O	4:Bn:93:GLN:C	2.61	0.44
4:Bt:130:TRP:O	4:Bt:131:ASP:C	2.60	0.44
7:Bu:87:ASP:OD1	7:Bu:89:PRO:HG2	2.17	0.44
6:Bw:131:ASN:HD22	6:Bw:131:ASN:C	2.25	0.44
8:C0:78:HIS:ND1	8:C0:80:LEU:HB2	2.32	0.44
7:C3:113:PHE:O	7:C3:114:LYS:C	2.60	0.44
5:C4:83:MET:HG3	5:C4:93:GLN:HG2	2.00	0.44
8:C5:105:THR:O	8:C5:105:THR:HG22	2.18	0.44
10:C7:18:ILE:HG23	10:C7:19:GLU:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CB:57:ARG:HG2	5:CB:57:ARG:NH1	2.32	0.44
8:CC:35:TYR:OH	10:CE:34:LEU:HB3	2.15	0.44
10:CE:179:HIS:HA	10:CE:180:PRO:HD3	1.57	0.44
5:CG:17:VAL:HG13	5:CG:135:TRP:CZ2	2.52	0.44
8:CH:114:LEU:HD12	8:CH:126:ASP:C	2.43	0.44
10:CJ:69:CYS:HB3	10:CJ:89:CYS:SG	2.58	0.44
5:CL:75:SER:O	5:CL:78:ASP:HB3	2.17	0.44
9:CN:121:LEU:HD23	9:CN:121:LEU:HA	1.82	0.44
9:CN:162:VAL:CG1	9:CN:163:THR:H	2.28	0.44
7:CP:113:PHE:O	7:CP:114:LYS:C	2.60	0.44
8:CR:81:LEU:H	8:CR:81:LEU:HG	1.59	0.44
10:CT:69:CYS:SG	10:CT:75:GLN:HB3	2.57	0.44
5:CV:83:MET:HG3	5:CV:93:GLN:HG2	2.00	0.44
5:CV:134:ALA:O	5:CV:138:CYS:HB2	2.18	0.44
8:CW:42:VAL:HG21	8:CW:46:THR:HG21	1.99	0.44
5:Ca:83:MET:HG3	5:Ca:93:GLN:HG2	2.00	0.44
8:Cb:105:THR:HG22	8:Cb:105:THR:O	2.18	0.44
10:Cd:184:ASP:OD2	10:Cd:186:LEU:HG	2.17	0.44
9:Ch:29:GLU:O	9:Ch:32:ARG:HB2	2.18	0.44
9:Ch:57:ILE:HG21	10:Ci:57:LEU:CG	2.27	0.44
10:Ci:78:SER:O	10:Ci:81:PHE:HB2	2.16	0.44
7:Cj:87:ASP:OD1	7:Cj:89:PRO:HG2	2.16	0.44
5:Ck:17:VAL:HG13	5:Ck:135:TRP:CZ2	2.52	0.44
8:Cl:14:VAL:HG21	10:Cn:13:ILE:HG21	0.47	0.44
8:Cl:114:LEU:HD12	8:Cl:126:ASP:C	2.43	0.44
8:Cl:219:HIS:ND1	8:Cl:219:HIS:C	2.75	0.44
9:Cm:35:LEU:HA	10:Cn:35:LEU:HD11	1.99	0.44
9:Cm:157:ARG:HG3	9:Cm:158:HIS:N	2.33	0.44
9:Cm:210:VAL:HB	9:Cm:216:HIS:O	2.18	0.44
10:Cn:69:CYS:HB3	10:Cn:89:CYS:SG	2.58	0.44
5:Cp:75:SER:O	5:Cp:78:ASP:HB3	2.17	0.44
8:Cq:78:HIS:ND1	8:Cq:80:LEU:HB2	2.32	0.44
9:Cr:173:ASN:HD22	9:Cr:174:PHE:N	2.14	0.44
7:Ct:113:PHE:O	7:Ct:114:LYS:C	2.60	0.44
5:Cz:57:ARG:HG2	5:Cz:57:ARG:NH1	2.32	0.44
5:Cz:83:MET:HG3	5:Cz:93:GLN:HG2	2.00	0.44
5:Cz:134:ALA:O	5:Cz:138:CYS:HB2	2.18	0.44
1:A0:12:HIS:HB2	1:A0:85:LEU:HD13	1.98	0.44
2:A1:111:PHE:N	2:A1:111:PHE:CD1	2.86	0.44
3:A2:131:ASN:HD22	3:A2:131:ASN:C	2.25	0.44
4:A4:79:LEU:CD1	4:A4:85:LEU:HD22	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AA:81:ILE:C	3:AA:83:LEU:H	2.24	0.44
2:AD:31:ARG:HB3	2:AD:71:GLN:HE22	1.83	0.44
4:AG:24:HIS:O	4:AG:25:ASP:C	2.61	0.44
2:AI:17:VAL:HG13	2:AI:135:TRP:CE2	2.53	0.44
3:AK:131:ASN:HD22	3:AK:131:ASN:C	2.25	0.44
3:AP:27:PHE:N	3:AP:27:PHE:CD1	2.86	0.44
3:AU:27:PHE:N	3:AU:27:PHE:CD1	2.86	0.44
1:AW:12:HIS:HB2	1:AW:85:LEU:HD13	1.98	0.44
2:AX:111:PHE:CD1	2:AX:111:PHE:N	2.86	0.44
3:AY:131:ASN:HD22	3:AY:131:ASN:C	2.25	0.44
4:Aa:79:LEU:CD1	4:Aa:85:LEU:HD22	2.44	0.44
1:Ab:72:LEU:O	1:Ab:73:ARG:C	2.59	0.44
3:Ae:132:VAL:HG13	3:Ae:133:ASP:N	2.32	0.44
2:Ah:127:GLY:O	5:Cf:62:TYR:HE2	2.00	0.44
3:Ai:79:LEU:HD13	3:Ai:79:LEU:C	2.43	0.44
4:Ak:24:HIS:O	4:Ak:25:ASP:C	2.61	0.44
1:Al:32:LYS:HG2	1:Al:75:LEU:HD12	1.98	0.44
2:Am:17:VAL:HG13	2:Am:135:TRP:CE2	2.53	0.44
2:Am:111:PHE:N	2:Am:111:PHE:CD1	2.86	0.44
3:Ao:131:ASN:C	3:Ao:131:ASN:HD22	2.25	0.44
1:Aq:12:HIS:O	1:Aq:13:ARG:C	2.60	0.44
2:Ar:17:VAL:HG13	2:Ar:135:TRP:CE2	2.53	0.44
3:At:27:PHE:N	3:At:27:PHE:CD1	2.86	0.44
3:At:57:LYS:HD2	3:At:65:GLU:HG3	1.98	0.44
3:Ay:27:PHE:N	3:Ay:27:PHE:CD1	2.86	0.44
5:B0:14:SER:OG	5:B0:15:LEU:N	2.49	0.44
4:B3:101:ILE:HB	4:B3:106:PHE:HE1	1.82	0.44
5:B5:17:VAL:HG13	5:B5:135:TRP:CZ2	2.53	0.44
6:B6:19:TRP:C	6:B6:21:ASP:N	2.75	0.44
5:BC:107:LYS:HE2	5:BC:110:PHE:CZ	2.52	0.44
6:BD:15:ILE:O	6:BD:17:HIS:N	2.50	0.44
4:BE:92:LEU:O	4:BE:93:GLN:C	2.61	0.44
6:BI:131:ASN:HD22	6:BI:131:ASN:C	2.25	0.44
4:BK:73:ASP:O	4:BK:74:ILE:C	2.59	0.44
6:BN:94:LEU:HD12	6:BN:94:LEU:HA	1.84	0.44
5:BR:17:VAL:HG13	5:BR:135:TRP:CZ2	2.53	0.44
6:BX:96:HIS:O	6:BX:100:GLN:HG3	2.17	0.44
5:Bb:17:VAL:HG13	5:Bb:135:TRP:CZ2	2.53	0.44
6:Bc:19:TRP:C	6:Bc:21:ASP:N	2.75	0.44
4:Bi:76:ILE:HA	4:Bi:79:LEU:CD2	2.27	0.44
4:Bi:92:LEU:O	4:Bi:93:GLN:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bm:57:LYS:HD2	6:Bm:65:GLU:HG3	1.99	0.44
6:Bm:131:ASN:C	6:Bm:131:ASN:HD22	2.25	0.44
4:Bn:84:THR:O	4:Bn:85:LEU:C	2.61	0.44
5:Bv:111:PHE:N	5:Bv:111:PHE:CD1	2.85	0.44
7:Bz:87:ASP:OD1	7:Bz:89:PRO:HG2	2.17	0.44
7:Bz:96:ASP:O	7:Bz:99:ALA:HB3	2.17	0.44
8:C0:42:VAL:HG21	8:C0:46:THR:HG21	1.99	0.44
8:C0:210:VAL:CG1	8:C0:215:PHE:HB3	2.48	0.44
9:C1:210:VAL:HB	9:C1:216:HIS:O	2.18	0.44
8:C5:140:PHE:H	8:C5:140:PHE:HD1	1.66	0.44
8:C5:219:HIS:ND1	8:C5:219:HIS:C	2.75	0.44
9:C6:13:ARG:HH12	10:C7:14:ILE:CB	2.28	0.44
9:C6:138:ARG:HD3	9:C6:138:ARG:HA	1.73	0.44
10:C7:184:ASP:OD2	10:C7:186:LEU:HG	2.17	0.44
5:CB:83:MET:HG3	5:CB:93:GLN:HG2	2.00	0.44
8:CC:105:THR:O	8:CC:105:THR:HG22	2.18	0.44
9:CD:29:GLU:O	9:CD:32:ARG:HB2	2.18	0.44
7:CF:87:ASP:OD1	7:CF:89:PRO:HG2	2.16	0.44
7:CF:88:PRO:HG2	7:CF:89:PRO:CD	2.48	0.44
5:CG:75:SER:O	5:CG:78:ASP:HB3	2.17	0.44
9:CI:157:ARG:HG3	9:CI:158:HIS:N	2.33	0.44
9:CI:210:VAL:HB	9:CI:216:HIS:O	2.18	0.44
8:CM:14:VAL:HG21	10:CO:13:ILE:HG21	0.47	0.44
8:CM:78:HIS:ND1	8:CM:80:LEU:HB2	2.32	0.44
9:CN:35:LEU:HA	10:CO:35:LEU:HD11	1.99	0.44
8:CR:114:LEU:HD12	8:CR:126:ASP:C	2.43	0.44
8:CR:210:VAL:CG1	8:CR:215:PHE:HB3	2.48	0.44
9:CS:121:LEU:HD23	9:CS:121:LEU:HA	1.82	0.44
7:CU:6:CYS:HB2	7:CU:7:CYS:H	1.51	0.44
7:CU:88:PRO:HG2	7:CU:89:PRO:CD	2.48	0.44
8:CW:35:TYR:HH	10:CY:34:LEU:CD2	2.01	0.44
8:CW:210:VAL:CG1	8:CW:215:PHE:HB3	2.48	0.44
8:CW:219:HIS:ND1	8:CW:219:HIS:C	2.75	0.44
9:Cc:13:ARG:HH12	10:Cd:14:ILE:CB	2.28	0.44
9:Cc:57:ILE:CG1	10:Cd:57:LEU:HD12	2.44	0.44
10:Cd:59:ASP:HA	10:Cd:60:PRO:HD3	1.35	0.44
5:Cf:57:ARG:HG2	5:Cf:57:ARG:NH1	2.32	0.44
8:Cg:87:LYS:HE2	8:Cg:87:LYS:HB2	1.66	0.44
9:Ch:210:VAL:HB	9:Ch:216:HIS:O	2.18	0.44
5:Cp:57:ARG:HG2	5:Cp:57:ARG:NH1	2.32	0.44
9:Cr:35:LEU:HA	10:Cs:35:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:121:LEU:HD23	9:Cr:121:LEU:HA	1.82	0.44
9:Cr:162:VAL:CG1	9:Cr:163:THR:H	2.28	0.44
7:Ct:32:LYS:HG2	7:Ct:75:LEU:HD12	2.00	0.44
8:Cv:114:LEU:HD12	8:Cv:126:ASP:C	2.43	0.44
7:Cy:45:LYS:HA	7:Cy:45:LYS:HE3	1.99	0.44
7:Cy:88:PRO:HG2	7:Cy:89:PRO:CD	2.48	0.44
2:A1:31:ARG:HB3	2:A1:71:GLN:HE22	1.83	0.44
3:A3:123:LEU:HA	3:A3:126:VAL:CG2	2.47	0.44
1:A5:72:LEU:O	1:A5:73:ARG:C	2.59	0.44
3:AE:79:LEU:HD13	3:AE:79:LEU:C	2.43	0.44
2:AI:111:PHE:CD1	2:AI:111:PHE:N	2.86	0.44
3:AK:18:ILE:CG2	3:AK:130:PHE:HD1	2.30	0.44
3:AK:27:PHE:N	3:AK:27:PHE:CD1	2.86	0.44
3:AU:18:ILE:CG2	3:AU:130:PHE:HD1	2.30	0.44
1:AW:12:HIS:O	1:AW:13:ARG:C	2.60	0.44
2:AX:31:ARG:HB3	2:AX:71:GLN:HE22	1.83	0.44
3:AZ:123:LEU:HA	3:AZ:126:VAL:CG2	2.47	0.44
3:Ad:79:LEU:HD13	3:Ad:79:LEU:C	2.43	0.44
1:Ag:32:LYS:HG2	1:Ag:75:LEU:HD12	1.99	0.44
2:Ah:31:ARG:HB3	2:Ah:71:GLN:HE22	1.83	0.44
3:Ai:102:ILE:CA	3:Ai:150:LEU:HG	2.38	0.44
3:Aj:123:LEU:HA	3:Aj:126:VAL:CG2	2.47	0.44
3:An:69:HIS:O	3:An:70:LEU:C	2.59	0.44
3:Ao:27:PHE:CD1	3:Ao:27:PHE:N	2.86	0.44
3:As:131:ASN:C	3:As:131:ASN:HD22	2.25	0.44
4:Au:80:ASP:OD1	4:Au:81:GLN:HG3	2.18	0.44
6:B1:96:HIS:O	6:B1:100:GLN:HG3	2.17	0.44
5:B5:17:VAL:HG13	5:B5:135:TRP:CE2	2.52	0.44
7:BB:45:LYS:HA	7:BB:45:LYS:HE3	1.98	0.44
5:BC:111:PHE:N	5:BC:111:PHE:CD1	2.85	0.44
6:BD:131:ASN:C	6:BD:131:ASN:HD22	2.25	0.44
6:BI:15:ILE:O	6:BI:17:HIS:N	2.50	0.44
6:BI:60:GLU:O	6:BI:63:SER:HB3	2.17	0.44
5:BM:17:VAL:HG13	5:BM:135:TRP:CE2	2.52	0.44
6:BS:94:LEU:HD12	6:BS:94:LEU:HA	1.84	0.44
7:BV:96:ASP:O	7:BV:99:ALA:HB3	2.17	0.44
5:BW:14:SER:OG	5:BW:15:LEU:N	2.49	0.44
6:Bh:15:ILE:O	6:Bh:17:HIS:N	2.50	0.44
4:Bi:84:THR:O	4:Bi:85:LEU:C	2.61	0.44
6:Bm:71:VAL:HB	5:Ck:83:MET:CE	2.46	0.44
4:Bs:24:HIS:O	4:Bs:25:ASP:C	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Bv:14:SER:OG	5:Bv:15:LEU:N	2.49	0.44
5:Bv:17:VAL:HG13	5:Bv:135:TRP:CZ2	2.53	0.44
8:C0:84:ASP:HB3	8:C0:86:GLU:N	2.29	0.44
9:C6:210:VAL:HB	9:C6:216:HIS:O	2.18	0.44
8:CC:51:LYS:NZ	10:CE:46:LYS:HE3	2.32	0.44
9:CD:57:ILE:HG21	10:CE:57:LEU:CG	2.27	0.44
9:CD:210:VAL:HB	9:CD:216:HIS:O	2.18	0.44
10:CE:18:ILE:CG1	9:Cm:23:ARG:CZ	2.96	0.44
10:CE:69:CYS:SG	10:CE:75:GLN:HB3	2.57	0.44
10:CE:78:SER:O	10:CE:81:PHE:HB2	2.16	0.44
8:CH:219:HIS:ND1	8:CH:219:HIS:C	2.75	0.44
9:CI:23:ARG:CZ	10:CI:18:ILE:CG1	2.96	0.44
9:CI:92:ALA:HB1	9:CI:94:ASP:OD2	2.18	0.44
5:CL:57:ARG:HG2	5:CL:57:ARG:NH1	2.32	0.44
8:CM:140:PHE:H	8:CM:140:PHE:HD1	1.66	0.44
7:CP:32:LYS:HG2	7:CP:75:LEU:HD12	2.00	0.44
8:CR:73:VAL:HA	8:CR:74:PRO:HD3	1.71	0.44
9:CS:89:CYS:SG	9:CS:92:ALA:HB1	2.56	0.44
7:CU:45:LYS:HE3	7:CU:45:LYS:HA	1.99	0.44
8:CW:10:PHE:HZ	9:CX:10:LEU:HB3	1.82	0.44
9:CX:210:VAL:HB	9:CX:216:HIS:O	2.18	0.44
5:Ca:102:VAL:HG13	5:Ca:103:GLU:N	2.32	0.44
8:Cb:117:TRP:CD1	8:Cb:121:GLU:CB	2.92	0.44
8:Cb:140:PHE:H	8:Cb:140:PHE:HD1	1.66	0.44
5:Cf:83:MET:HG3	5:Cf:93:GLN:HG2	2.00	0.44
8:Cg:105:THR:O	8:Cg:105:THR:HG22	2.18	0.44
9:Ch:92:ALA:HB1	9:Ch:94:ASP:OD2	2.18	0.44
9:Ch:139:LYS:HZ3	10:Cn:158:GLU:HB2	1.82	0.44
10:CI:24:ILE:C	10:CI:26:THR:N	2.74	0.44
10:CI:69:CYS:SG	10:CI:75:GLN:HB3	2.57	0.44
7:Cj:88:PRO:HG2	7:Cj:89:PRO:CD	2.48	0.44
5:Ck:75:SER:O	5:Ck:78:ASP:HB3	2.17	0.44
8:Cl:78:HIS:ND1	8:Cl:80:LEU:HB2	2.32	0.44
9:Cm:57:ILE:HD11	10:Cn:54:VAL:CA	2.45	0.44
9:Cm:92:ALA:HB1	9:Cm:94:ASP:OD2	2.18	0.44
5:Cp:102:VAL:HG13	5:Cp:103:GLU:N	2.32	0.44
8:Cq:14:VAL:HG21	10:Cs:13:ILE:HG21	0.47	0.44
5:Cu:75:SER:O	5:Cu:78:ASP:HB3	2.17	0.44
8:Cv:42:VAL:HG21	8:Cv:46:THR:HG21	1.99	0.44
8:Cv:73:VAL:HA	8:Cv:74:PRO:HD3	1.71	0.44
8:Cv:210:VAL:CG1	8:Cv:215:PHE:HB3	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cx:69:CYS:SG	10:Cx:75:GLN:HB3	2.57	0.44
7:Cy:32:LYS:HG2	7:Cy:75:LEU:HD12	2.00	0.44
1:A0:12:HIS:O	1:A0:13:ARG:C	2.60	0.44
2:A1:127:GLY:O	5:Cz:62:TYR:HE2	2.00	0.44
4:A4:142:LYS:C	4:A4:144:HIS:H	2.24	0.44
1:A5:31:ILE:O	1:A5:32:LYS:C	2.60	0.44
3:A7:79:LEU:HD13	3:A7:79:LEU:C	2.43	0.44
1:AC:32:LYS:HG2	1:AC:75:LEU:HD12	1.99	0.44
3:AE:19:TRP:C	3:AE:21:ASP:N	2.76	0.44
3:AF:123:LEU:HA	3:AF:126:VAL:CG2	2.47	0.44
4:AG:73:ASP:O	4:AG:74:ILE:C	2.61	0.44
4:AG:80:ASP:OD1	4:AG:81:GLN:HG3	2.18	0.44
2:AI:49:ILE:C	2:AI:51:ALA:N	2.73	0.44
3:AJ:19:TRP:C	3:AJ:21:ASP:N	2.76	0.44
3:AK:80:LEU:HD22	3:AK:94:LEU:HD13	2.00	0.44
4:AL:73:ASP:O	4:AL:74:ILE:C	2.61	0.44
2:AN:31:ARG:HB3	2:AN:71:GLN:HE22	1.83	0.44
4:AQ:80:ASP:OD1	4:AQ:81:GLN:HG3	2.18	0.44
4:Aa:142:LYS:C	4:Aa:144:HIS:H	2.24	0.44
2:Ac:83:MET:CG	2:Ac:90:LEU:HA	2.48	0.44
3:Ai:19:TRP:C	3:Ai:21:ASP:N	2.76	0.44
3:Aj:18:ILE:HG21	3:Aj:130:PHE:HD1	1.77	0.44
2:Am:73:VAL:O	2:Am:74:LEU:C	2.59	0.44
3:An:19:TRP:C	3:An:21:ASP:N	2.76	0.44
3:Ao:80:LEU:HD22	3:Ao:94:LEU:HD13	2.00	0.44
4:Ap:73:ASP:O	4:Ap:74:ILE:C	2.61	0.44
2:Ar:111:PHE:N	2:Ar:111:PHE:CD1	2.86	0.44
3:At:13:ARG:NE	8:Cv:215:PHE:CZ	2.85	0.44
3:Ay:18:ILE:CG2	3:Ay:130:PHE:HD1	2.30	0.44
4:Az:1:LYS:HZ3	4:Az:128:GLU:HA	1.82	0.44
5:B0:49:ILE:C	5:B0:51:ALA:N	2.73	0.44
7:B4:99:ALA:HA	7:B4:147:ILE:O	2.16	0.44
6:B6:60:GLU:O	6:B6:63:SER:HB3	2.17	0.44
4:BE:81:GLN:H	4:BE:81:GLN:HG3	1.47	0.44
5:BH:111:PHE:N	5:BH:111:PHE:CD1	2.85	0.44
6:BN:15:ILE:O	6:BN:17:HIS:N	2.51	0.44
4:BO:24:HIS:O	4:BO:25:ASP:C	2.59	0.44
6:BX:96:HIS:CD2	5:CV:72:ARG:CD	3.00	0.44
7:Bf:45:LYS:HE3	7:Bf:45:LYS:HA	1.98	0.44
5:Bg:107:LYS:HE2	5:Bg:110:PHE:CZ	2.52	0.44
5:Bg:111:PHE:N	5:Bg:111:PHE:CD1	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bh:131:ASN:C	6:Bh:131:ASN:HD22	2.25	0.44
5:Bl:111:PHE:N	5:Bl:111:PHE:CD1	2.85	0.44
6:Bm:15:ILE:O	6:Bm:17:HIS:N	2.50	0.44
4:Bn:76:ILE:HA	4:Bn:79:LEU:CD2	2.27	0.44
5:Bq:17:VAL:HG13	5:Bq:135:TRP:CE2	2.52	0.44
5:Bq:107:LYS:HB2	5:Bq:110:PHE:CE2	2.52	0.44
6:Br:15:ILE:O	6:Br:17:HIS:N	2.51	0.44
7:Bu:96:ASP:O	7:Bu:99:ALA:HB3	2.17	0.44
6:Bw:65:GLU:HA	5:Cu:92:ALA:CB	2.45	0.44
8:C0:14:VAL:HG11	10:C2:13:ILE:CG2	2.11	0.44
8:C0:219:HIS:C	8:C0:219:HIS:ND1	2.75	0.44
9:C1:35:LEU:HA	10:C2:35:LEU:HD11	1.99	0.44
8:C5:42:VAL:HG21	8:C5:46:THR:HG21	1.99	0.44
9:C6:57:ILE:HD13	10:C7:57:LEU:CB	2.48	0.44
9:C6:57:ILE:CG1	10:C7:57:LEU:HD12	2.44	0.44
10:C7:18:ILE:CG1	9:CN:23:ARG:CZ	2.96	0.44
8:CC:42:VAL:HG21	8:CC:46:THR:HG21	1.99	0.44
8:CC:147:LEU:HD12	8:CC:169:GLY:O	2.18	0.44
9:CD:92:ALA:HB1	9:CD:94:ASP:OD2	2.18	0.44
9:CD:138:ARG:CD	10:CJ:157:ASP:CG	2.90	0.44
7:CF:45:LYS:HE3	7:CF:45:LYS:HA	1.99	0.44
5:CG:83:MET:HG3	5:CG:93:GLN:HG2	2.00	0.44
8:CH:78:HIS:ND1	8:CH:80:LEU:HB2	2.32	0.44
9:CI:147:LEU:HD23	9:CI:171:TYR:HA	1.99	0.44
10:CJ:192:PHE:CB	10:CJ:194:GLY:HA2	2.46	0.44
5:CL:102:VAL:HG13	5:CL:103:GLU:N	2.32	0.44
8:CM:34:GLU:HA	8:CM:37:LYS:CE	2.45	0.44
8:CM:114:LEU:HD12	8:CM:126:ASP:C	2.43	0.44
8:CM:132:ILE:HD13	8:CM:149:ALA:HB2	1.99	0.44
8:CR:11:GLN:CA	10:CT:13:ILE:CD1	2.78	0.44
8:CR:78:HIS:ND1	8:CR:80:LEU:HB2	2.32	0.44
10:CT:69:CYS:HB3	10:CT:89:CYS:SG	2.58	0.44
7:CU:32:LYS:HG2	7:CU:75:LEU:HD12	2.00	0.44
8:CW:14:VAL:HG21	10:CY:13:ILE:HG21	0.47	0.44
8:CW:84:ASP:HB3	8:CW:86:GLU:N	2.29	0.44
5:Ca:57:ARG:HG2	5:Ca:57:ARG:NH1	2.32	0.44
9:Cc:57:ILE:HD13	10:Cd:57:LEU:CB	2.48	0.44
9:Cc:210:VAL:HB	9:Cc:216:HIS:O	2.18	0.44
10:Cd:140:PRO:HA	10:Cd:171:PHE:HD2	1.83	0.44
8:Cg:51:LYS:NZ	10:CI:46:LYS:HE3	2.32	0.44
8:Cg:78:HIS:ND1	8:Cg:80:LEU:HB2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:147:LEU:HD12	8:Cg:169:GLY:O	2.18	0.44
7:Cj:113:PHE:O	7:Cj:114:LYS:C	2.60	0.44
5:Ck:83:MET:HG3	5:Ck:93:GLN:HG2	2.00	0.44
9:Cm:162:VAL:CG1	9:Cm:163:THR:N	2.76	0.44
10:Cn:192:PHE:CB	10:Cn:194:GLY:HA2	2.46	0.44
7:Co:12:HIS:O	7:Co:13:ARG:C	2.58	0.44
8:Cq:140:PHE:H	8:Cq:140:PHE:HD1	1.66	0.44
8:Cv:11:GLN:CA	10:Cx:13:ILE:CD1	2.78	0.44
10:Cx:69:CYS:HB3	10:Cx:89:CYS:SG	2.58	0.44
2:A1:83:MET:SD	2:A1:93:GLN:CB	3.06	0.44
3:A3:131:ASN:HD22	3:A3:131:ASN:C	2.25	0.44
3:A3:132:VAL:HG13	3:A3:133:ASP:N	2.32	0.44
3:A7:23:TRP:HH2	3:A7:75:ASN:N	2.16	0.44
1:AC:72:LEU:O	1:AC:73:ARG:C	2.59	0.44
3:AE:23:TRP:HH2	3:AE:75:ASN:N	2.16	0.44
3:AE:123:LEU:O	3:AE:127:LEU:HD23	2.18	0.44
3:AF:19:TRP:C	3:AF:21:ASP:N	2.75	0.44
3:AK:15:ILE:O	3:AK:17:HIS:N	2.51	0.44
3:AK:65:GLU:H	3:AK:65:GLU:HG2	1.68	0.44
4:AL:80:ASP:OD1	4:AL:81:GLN:HG3	2.18	0.44
3:AO:142:LEU:O	3:AO:146:ILE:HG13	2.18	0.44
3:AT:142:LEU:O	3:AT:146:ILE:HG13	2.18	0.44
4:AV:1:LYS:HZ3	4:AV:128:GLU:HA	1.82	0.44
3:AZ:131:ASN:HD22	3:AZ:131:ASN:C	2.25	0.44
2:Ac:31:ARG:O	2:Ac:32:VAL:C	2.60	0.44
3:Ad:23:TRP:HH2	3:Ad:75:ASN:N	2.16	0.44
3:Ae:23:TRP:HA	3:Ae:23:TRP:HE3	1.82	0.44
3:Ae:80:LEU:HD22	3:Ae:94:LEU:HD13	2.00	0.44
1:Ag:72:LEU:O	1:Ag:73:ARG:C	2.59	0.44
3:Ai:23:TRP:HH2	3:Ai:75:ASN:N	2.16	0.44
3:Ai:123:LEU:O	3:Ai:127:LEU:HD23	2.18	0.44
3:Aj:19:TRP:C	3:Aj:21:ASP:N	2.75	0.44
4:Ak:80:ASP:OD1	4:Ak:81:GLN:HG3	2.18	0.44
3:Ao:15:ILE:O	3:Ao:17:HIS:N	2.51	0.44
2:Ar:31:ARG:HB3	2:Ar:71:GLN:HE22	1.83	0.44
3:As:142:LEU:O	3:As:146:ILE:HG13	2.18	0.44
3:Ax:142:LEU:O	3:Ax:146:ILE:HG13	2.18	0.44
6:B1:96:HIS:CD2	5:Cz:72:ARG:CD	3.00	0.44
4:B7:81:GLN:H	4:B7:81:GLN:HG3	1.47	0.44
4:BF:92:LEU:O	4:BF:93:GLN:C	2.60	0.44
4:BJ:76:ILE:HA	4:BJ:79:LEU:CD2	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BL:96:ASP:O	7:BL:99:ALA:HB3	2.17	0.44
5:BM:107:LYS:HB2	5:BM:110:PHE:CE2	2.52	0.44
7:BQ:96:ASP:O	7:BQ:99:ALA:HB3	2.17	0.44
6:BS:96:HIS:O	6:BS:100:GLN:HG3	2.17	0.44
5:Bb:17:VAL:HG13	5:Bb:135:TRP:CE2	2.52	0.44
6:Bc:60:GLU:O	6:Bc:63:SER:HB3	2.17	0.44
4:Bd:92:LEU:O	4:Bd:93:GLN:C	2.61	0.44
6:Bh:108:THR:H	6:Bh:111:TYR:HD2	1.65	0.44
4:Bj:92:LEU:O	4:Bj:93:GLN:C	2.60	0.44
6:Bm:60:GLU:O	6:Bm:63:SER:HB3	2.17	0.44
7:Bp:96:ASP:O	7:Bp:99:ALA:HB3	2.17	0.44
4:By:101:ILE:HB	4:By:106:PHE:HE1	1.82	0.44
7:Bz:12:HIS:HB2	7:Bz:85:LEU:HD13	1.99	0.44
8:C0:10:PHE:HZ	9:C1:10:LEU:HA	1.81	0.44
8:C0:10:PHE:HZ	9:C1:10:LEU:HB3	1.82	0.44
8:C0:14:VAL:HG21	10:C2:13:ILE:HG21	0.47	0.44
9:C1:57:ILE:HD13	10:C2:57:LEU:CB	2.48	0.44
5:C4:57:ARG:HG2	5:C4:57:ARG:NH1	2.32	0.44
5:C4:102:VAL:HG13	5:C4:103:GLU:N	2.32	0.44
8:C5:56:ASN:HD22	8:C5:198:LEU:HB3	1.77	0.44
8:C5:84:ASP:HB3	8:C5:86:GLU:N	2.29	0.44
8:C5:114:LEU:HD12	8:C5:126:ASP:C	2.43	0.44
9:C6:82:VAL:HA	9:C6:88:ASP:CB	2.48	0.44
10:C7:59:ASP:HA	10:C7:60:PRO:HD3	1.35	0.44
10:C7:140:PRO:HA	10:C7:171:PHE:HD2	1.83	0.44
8:CC:219:HIS:ND1	8:CC:219:HIS:C	2.75	0.44
10:CE:24:ILE:C	10:CE:26:THR:N	2.74	0.44
10:CE:31:VAL:C	10:CE:33:SER:N	2.76	0.44
10:CE:69:CYS:HB3	10:CE:89:CYS:SG	2.58	0.44
7:CF:113:PHE:O	7:CF:114:LYS:C	2.60	0.44
8:CH:225:TYR:CD1	8:CH:225:TYR:N	2.85	0.44
9:CI:82:VAL:HA	9:CI:88:ASP:CB	2.48	0.44
9:CI:162:VAL:CG1	9:CI:163:THR:N	2.76	0.44
10:CJ:18:ILE:CG1	9:Ch:23:ARG:CZ	2.96	0.44
7:CK:12:HIS:O	7:CK:13:ARG:C	2.58	0.44
7:CK:32:LYS:HG2	7:CK:75:LEU:HD12	2.00	0.44
9:CN:57:ILE:HD13	10:CO:57:LEU:CB	2.48	0.44
7:CP:88:PRO:HG2	7:CP:89:PRO:CD	2.48	0.44
7:CP:95:LEU:HD21	7:CP:143:ILE:HG23	2.00	0.44
7:CP:151:LEU:HA	7:CP:151:LEU:HD23	1.75	0.44
5:CQ:57:ARG:HG2	5:CQ:57:ARG:NH1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CQ:75:SER:O	5:CQ:78:ASP:HB3	2.17	0.44
8:CR:42:VAL:HG21	8:CR:46:THR:HG21	1.99	0.44
8:CR:105:THR:O	8:CR:105:THR:HG22	2.18	0.44
10:CT:81:PHE:HD1	10:CT:81:PHE:HA	1.48	0.44
10:CT:196:ASN:HA	10:CT:197:PHE:HA	1.83	0.44
8:CW:10:PHE:HZ	9:CX:10:LEU:HA	1.81	0.44
9:CX:57:ILE:HD13	10:CY:57:LEU:CB	2.48	0.44
8:Cb:42:VAL:HG21	8:Cb:46:THR:HG21	1.99	0.44
8:Cb:132:ILE:HD13	8:Cb:149:ALA:HB2	1.99	0.44
9:Cc:82:VAL:HA	9:Cc:88:ASP:CB	2.48	0.44
10:Cd:18:ILE:CG1	9:Cr:23:ARG:CZ	2.96	0.44
7:Ce:95:LEU:HD21	7:Ce:143:ILE:HG23	2.00	0.44
8:Cg:42:VAL:HG21	8:Cg:46:THR:HG21	1.99	0.44
10:Ci:31:VAL:C	10:Ci:33:SER:N	2.76	0.44
10:Ci:69:CYS:HB3	10:Ci:89:CYS:SG	2.58	0.44
7:Cj:45:LYS:HA	7:Cj:45:LYS:HE3	1.99	0.44
9:Cm:28:ILE:HD13	10:Cn:24:ILE:CD1	2.47	0.44
9:Cm:82:VAL:HA	9:Cm:88:ASP:CB	2.48	0.44
9:Cm:147:LEU:HD23	9:Cm:171:TYR:HA	1.99	0.44
10:Cn:100:LEU:H	10:Cn:100:LEU:HG	1.60	0.44
8:Cq:105:THR:O	8:Cq:105:THR:HG22	2.18	0.44
8:Cq:114:LEU:HD12	8:Cq:126:ASP:C	2.43	0.44
7:Ct:95:LEU:HD21	7:Ct:143:ILE:HG23	2.00	0.44
8:Cv:105:THR:O	8:Cv:105:THR:HG22	2.18	0.44
2:A1:83:MET:CG	2:A1:90:LEU:HA	2.48	0.44
2:A6:111:PHE:N	2:A6:111:PHE:CD1	2.86	0.44
3:AA:23:TRP:HA	3:AA:23:TRP:HE3	1.82	0.44
3:AA:80:LEU:HD22	3:AA:94:LEU:HD13	2.00	0.44
2:AD:17:VAL:HG13	2:AD:135:TRP:CE2	2.53	0.44
2:AD:111:PHE:N	2:AD:111:PHE:CD1	2.86	0.44
3:AE:86:ASP:O	3:AE:87:THR:C	2.61	0.44
3:AK:13:ARG:NE	8:CM:215:PHE:CZ	2.85	0.44
1:AM:45:LYS:HE3	1:AM:45:LYS:HA	2.00	0.44
3:AP:13:ARG:NE	8:CR:215:PHE:CZ	2.85	0.44
3:AP:23:TRP:HA	3:AP:23:TRP:HE3	1.82	0.44
3:AP:86:ASP:O	3:AP:87:THR:C	2.60	0.44
4:AQ:79:LEU:CD1	4:AQ:85:LEU:HD22	2.45	0.44
3:AT:23:TRP:CD1	3:AT:78:LYS:HZ2	2.35	0.44
2:AX:83:MET:SD	2:AX:93:GLN:CB	3.06	0.44
2:AX:83:MET:CG	2:AX:90:LEU:HA	2.48	0.44
2:AX:127:GLY:O	5:CV:62:TYR:HE2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AZ:18:ILE:CG2	3:AZ:130:PHE:HD1	2.30	0.44
1:Ab:31:ILE:O	1:Ab:32:LYS:C	2.60	0.44
3:Ai:86:ASP:O	3:Ai:87:THR:C	2.61	0.44
4:Ap:80:ASP:OD1	4:Ap:81:GLN:HG3	2.18	0.44
3:Ax:131:ASN:HD22	3:Ax:131:ASN:C	2.25	0.44
4:B3:92:LEU:O	4:B3:93:GLN:C	2.60	0.44
6:B6:15:ILE:O	6:B6:17:HIS:N	2.51	0.44
6:B6:19:TRP:CD2	6:B6:81:ILE:HD12	2.53	0.44
4:B7:92:LEU:O	4:B7:93:GLN:C	2.61	0.44
4:BA:24:HIS:O	4:BA:25:ASP:C	2.61	0.44
6:BD:69:HIS:O	6:BD:70:LEU:C	2.60	0.44
4:BE:24:HIS:O	4:BE:25:ASP:C	2.59	0.44
4:BE:130:TRP:O	4:BE:131:ASP:C	2.61	0.44
6:BN:19:TRP:CD2	6:BN:81:ILE:HD12	2.53	0.44
6:BS:65:GLU:HA	5:CQ:92:ALA:CB	2.45	0.44
7:BV:12:HIS:HB2	7:BV:85:LEU:HD13	1.99	0.44
5:BW:49:ILE:C	5:BW:51:ALA:N	2.73	0.44
6:BX:15:ILE:O	6:BX:17:HIS:N	2.50	0.44
7:Ba:99:ALA:HA	7:Ba:147:ILE:O	2.16	0.44
6:Bc:15:ILE:O	6:Bc:17:HIS:N	2.51	0.44
6:Bc:19:TRP:CD2	6:Bc:81:ILE:HD12	2.53	0.44
4:Bd:84:THR:O	4:Bd:85:LEU:C	2.61	0.44
4:Be:24:HIS:O	4:Be:25:ASP:C	2.61	0.44
6:Bh:19:TRP:C	6:Bh:21:ASP:N	2.75	0.44
4:Bi:130:TRP:O	4:Bi:131:ASP:C	2.61	0.44
5:Bl:17:VAL:HG13	5:Bl:135:TRP:CZ2	2.53	0.44
6:Bm:19:TRP:C	6:Bm:21:ASP:N	2.75	0.44
6:Bm:21:ASP:HB3	6:Bm:127:LEU:HD13	1.99	0.44
6:Br:19:TRP:CD2	6:Br:81:ILE:HD12	2.53	0.44
8:C5:87:LYS:HE2	8:C5:87:LYS:HB2	1.66	0.44
8:C5:132:ILE:HD13	8:C5:149:ALA:HB2	1.99	0.44
8:C5:147:LEU:HD12	8:C5:169:GLY:O	2.18	0.44
8:C5:173:PHE:HD1	8:C5:173:PHE:HA	1.10	0.44
9:C6:35:LEU:HA	10:C7:35:LEU:HD11	1.99	0.44
7:CA:95:LEU:HD21	7:CA:143:ILE:HG23	2.00	0.44
8:CC:78:HIS:ND1	8:CC:80:LEU:HB2	2.32	0.44
9:CD:23:ARG:CZ	10:Cn:18:ILE:CG1	2.96	0.44
9:CD:96:ASP:HA	9:CD:97:PRO:HD3	1.49	0.44
9:CD:109:ASN:HB2	9:CD:111:PHE:CZ	2.53	0.44
9:CD:157:ARG:HG3	9:CD:158:HIS:N	2.33	0.44
8:CH:101:SER:HB2	8:CH:104:ILE:CG1	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:109:SER:HB2	8:CH:224:ARG:NH2	2.33	0.44
9:CI:173:ASN:HD22	9:CI:174:PHE:N	2.15	0.44
8:CM:105:THR:O	8:CM:105:THR:HG22	2.18	0.44
5:CQ:118:LEU:O	5:CQ:122:LEU:HG	2.18	0.44
9:CS:31:LEU:CD1	10:CT:28:ILE:C	2.89	0.44
9:CS:57:ILE:HD13	10:CT:57:LEU:CB	2.48	0.44
9:CS:109:ASN:HB2	9:CS:111:PHE:CZ	2.53	0.44
9:CS:210:VAL:HB	9:CS:216:HIS:O	2.18	0.44
5:CV:75:SER:O	5:CV:78:ASP:HB3	2.17	0.44
9:CX:35:LEU:HA	10:CY:35:LEU:HD11	1.99	0.44
7:CZ:95:LEU:HD21	7:CZ:143:ILE:HG23	2.00	0.44
8:Cb:114:LEU:HD12	8:Cb:126:ASP:C	2.43	0.44
8:Cb:147:LEU:HD12	8:Cb:169:GLY:O	2.18	0.44
9:Cc:35:LEU:HA	10:Cd:35:LEU:HD11	1.99	0.44
8:Cg:219:HIS:ND1	8:Cg:219:HIS:C	2.75	0.44
9:Ch:109:ASN:HB2	9:Ch:111:PHE:CZ	2.53	0.44
9:Ch:138:ARG:CD	10:Cn:157:ASP:CG	2.90	0.44
9:Ch:157:ARG:HG3	9:Ch:158:HIS:N	2.33	0.44
8:Cl:109:SER:HB2	8:Cl:224:ARG:NH2	2.33	0.44
8:Cl:225:TYR:CD1	8:Cl:225:TYR:N	2.85	0.44
10:Cn:180:PRO:HA	10:Cn:181:PRO:HD2	1.40	0.44
7:Co:32:LYS:HG2	7:Co:75:LEU:HD12	2.00	0.44
8:Cq:132:ILE:HD13	8:Cq:149:ALA:HB2	1.99	0.44
9:Cr:57:ILE:HD13	10:Cs:57:LEU:CB	2.48	0.44
5:Cu:57:ARG:HG2	5:Cu:57:ARG:NH1	2.32	0.44
5:Cu:118:LEU:O	5:Cu:122:LEU:HG	2.18	0.44
8:Cv:78:HIS:ND1	8:Cv:80:LEU:HB2	2.32	0.44
9:Cw:31:LEU:CD1	10:Cx:28:ILE:C	2.89	0.44
9:Cw:109:ASN:HB2	9:Cw:111:PHE:CZ	2.53	0.44
10:Cx:24:ILE:C	10:Cx:26:THR:N	2.74	0.44
10:Cx:196:ASN:HA	10:Cx:197:PHE:HA	1.83	0.44
5:Cz:75:SER:O	5:Cz:78:ASP:HB3	2.17	0.44
3:A2:23:TRP:HH2	3:A2:75:ASN:N	2.16	0.43
3:A3:18:ILE:CG2	3:A3:130:PHE:HD1	2.30	0.43
2:A6:17:VAL:HG13	2:A6:135:TRP:CE2	2.53	0.43
2:A6:31:ARG:O	2:A6:32:VAL:C	2.60	0.43
2:A6:127:GLY:O	5:C4:62:TYR:HE2	2.00	0.43
3:A7:57:LYS:HD2	3:A7:65:GLU:HG3	2.00	0.43
3:AA:27:PHE:N	3:AA:27:PHE:CD1	2.86	0.43
3:AA:86:ASP:O	3:AA:87:THR:C	2.60	0.43
1:AH:45:LYS:HA	1:AH:45:LYS:HE3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AI:73:VAL:O	2:AI:74:LEU:C	2.59	0.43
3:AJ:79:LEU:HD13	3:AJ:79:LEU:C	2.43	0.43
2:AN:49:ILE:C	2:AN:51:ALA:N	2.73	0.43
2:AS:31:ARG:HB3	2:AS:71:GLN:HE22	1.83	0.43
3:AU:13:ARG:NE	8:CW:215:PHE:CZ	2.85	0.43
4:AV:73:ASP:O	4:AV:74:ILE:C	2.61	0.43
3:AY:19:TRP:C	3:AY:21:ASP:N	2.76	0.43
3:AY:23:TRP:HH2	3:AY:75:ASN:N	2.16	0.43
3:AY:86:ASP:O	3:AY:87:THR:C	2.61	0.43
2:Ac:111:PHE:N	2:Ac:111:PHE:CD1	2.86	0.43
3:Ad:57:LYS:HD2	3:Ad:65:GLU:HG3	2.00	0.43
3:Ae:27:PHE:N	3:Ae:27:PHE:CD1	2.86	0.43
3:Ae:86:ASP:O	3:Ae:87:THR:C	2.60	0.43
4:Af:81:GLN:HA	4:Af:82:PRO:HD2	1.83	0.43
2:Ah:17:VAL:HG13	2:Ah:135:TRP:CE2	2.53	0.43
2:Ah:83:MET:SD	2:Ah:93:GLN:CB	3.06	0.43
2:Ah:111:PHE:CD1	2:Ah:111:PHE:N	2.86	0.43
1:Al:45:LYS:HE3	1:Al:45:LYS:HA	2.00	0.43
2:Am:31:ARG:O	2:Am:32:VAL:C	2.60	0.43
2:Am:49:ILE:C	2:Am:51:ALA:N	2.73	0.43
3:Ao:13:ARG:NE	8:Cq:215:PHE:CZ	2.85	0.43
1:Aq:45:LYS:HA	1:Aq:45:LYS:HE3	2.00	0.43
2:Ar:49:ILE:C	2:Ar:51:ALA:N	2.73	0.43
3:At:86:ASP:O	3:At:87:THR:C	2.60	0.43
3:Ay:136:ASN:HD22	3:Ay:136:ASN:HA	1.56	0.43
4:Az:73:ASP:O	4:Az:74:ILE:C	2.61	0.43
5:B0:111:PHE:N	5:B0:111:PHE:CD1	2.85	0.43
4:B3:73:ASP:O	4:B3:74:ILE:C	2.59	0.43
6:B6:65:GLU:HA	5:C4:92:ALA:CB	2.45	0.43
6:B6:123:LEU:HA	6:B6:126:VAL:CG2	2.48	0.43
4:B7:84:THR:O	4:B7:85:LEU:C	2.61	0.43
6:BD:108:THR:H	6:BD:111:TYR:HD2	1.65	0.43
4:BF:78:THR:HG22	7:BG:72:LEU:HD11	2.00	0.43
4:BF:101:ILE:HA	4:BF:102:PRO:HD3	1.47	0.43
5:BH:17:VAL:HG13	5:BH:135:TRP:CZ2	2.53	0.43
6:BI:21:ASP:HB3	6:BI:127:LEU:HD13	1.99	0.43
7:BL:129:ASP:OD1	7:BL:129:ASP:N	2.36	0.43
4:BU:101:ILE:HB	4:BU:106:PHE:HE1	1.82	0.43
4:BZ:92:LEU:O	4:BZ:93:GLN:C	2.60	0.43
6:Bc:65:GLU:HA	5:Ca:92:ALA:CB	2.45	0.43
6:Bc:123:LEU:HA	6:Bc:126:VAL:CG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bh:19:TRP:CD2	6:Bh:81:ILE:HD12	2.53	0.43
6:Bh:69:HIS:O	6:Bh:70:LEU:C	2.60	0.43
6:Bh:96:HIS:O	6:Bh:100:GLN:HG3	2.17	0.43
4:Bj:78:THR:HG22	7:Bk:72:LEU:HD11	2.00	0.43
6:Bm:108:THR:H	6:Bm:111:TYR:HD2	1.65	0.43
6:Bm:150:LEU:HA	6:Bm:150:LEU:HD23	1.08	0.43
4:Bo:78:THR:HG22	7:Bp:72:LEU:HD11	2.00	0.43
6:Bw:19:TRP:CD2	6:Bw:81:ILE:HD12	2.53	0.43
6:Bw:96:HIS:O	6:Bw:100:GLN:HG3	2.17	0.43
8:C0:105:THR:HG22	8:C0:105:THR:O	2.18	0.43
7:C3:88:PRO:HG2	7:C3:89:PRO:CD	2.48	0.43
7:C3:95:LEU:HD21	7:C3:143:ILE:HG23	2.00	0.43
5:C4:118:LEU:O	5:C4:122:LEU:HG	2.18	0.43
9:Cl:28:ILE:HD13	10:CJ:24:ILE:CD1	2.47	0.43
9:Cl:162:VAL:CG1	9:Cl:163:THR:H	2.28	0.43
8:CM:109:SER:HB2	8:CM:224:ARG:NH2	2.33	0.43
9:CN:109:ASN:HB2	9:CN:111:PHE:CZ	2.53	0.43
10:CT:18:ILE:HG23	10:CT:19:GLU:H	1.81	0.43
10:CT:180:PRO:HA	10:CT:181:PRO:HD2	1.40	0.43
8:CW:13:LEU:HG	8:CW:14:VAL:N	2.33	0.43
7:CZ:70:HIS:O	7:CZ:71:ALA:C	2.60	0.43
8:Cb:56:ASN:HB2	8:Cb:199:GLY:HA3	1.73	0.43
8:Cb:56:ASN:HA	8:Cb:199:GLY:CA	2.39	0.43
8:Cb:73:VAL:HA	8:Cb:74:PRO:HD3	1.71	0.43
8:Cb:78:HIS:ND1	8:Cb:80:LEU:HB2	2.32	0.43
8:Cb:84:ASP:HB3	8:Cb:86:GLU:N	2.29	0.43
10:Cd:89:CYS:HB3	10:Cd:92:GLY:H	1.83	0.43
8:Cg:210:VAL:CG1	8:Cg:215:PHE:HB3	2.48	0.43
8:Cq:34:GLU:HA	8:Cq:37:LYS:CE	2.45	0.43
8:Cq:109:SER:HB2	8:Cq:224:ARG:NH2	2.33	0.43
8:Cq:184:LYS:C	8:Cq:186:GLN:H	2.23	0.43
7:Ct:88:PRO:HG2	7:Ct:89:PRO:CD	2.48	0.43
8:Cv:13:LEU:HG	8:Cv:14:VAL:N	2.32	0.43
9:Cw:57:ILE:HD13	10:Cx:57:LEU:CB	2.48	0.43
9:Cw:210:VAL:HB	9:Cw:216:HIS:O	2.18	0.43
3:A2:19:TRP:C	3:A2:21:ASP:N	2.76	0.43
3:A2:86:ASP:O	3:A2:87:THR:C	2.61	0.43
4:A4:87:GLU:HG2	1:A5:65:PRO:C	2.43	0.43
3:A7:69:HIS:O	3:A7:70:LEU:C	2.59	0.43
3:A7:123:LEU:O	3:A7:127:LEU:HD23	2.18	0.43
2:AD:83:MET:SD	2:AD:93:GLN:CB	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AJ:23:TRP:HH2	3:AJ:75:ASN:N	2.16	0.43
3:AJ:57:LYS:HD2	3:AJ:65:GLU:HG3	2.01	0.43
3:AK:19:TRP:C	3:AK:21:ASP:N	2.75	0.43
2:AN:127:GLY:O	5:CL:62:TYR:HE2	2.00	0.43
3:AT:19:TRP:C	3:AT:21:ASP:N	2.76	0.43
3:AT:131:ASN:C	3:AT:131:ASN:HD22	2.25	0.43
4:Aa:87:GLU:HG2	1:Ab:65:PRO:C	2.43	0.43
2:Ac:49:ILE:C	2:Ac:51:ALA:H	2.26	0.43
2:Ac:127:GLY:O	5:Ca:62:TYR:HE2	2.00	0.43
3:Ae:18:ILE:CG2	3:Ae:130:PHE:HD1	2.30	0.43
4:Af:87:GLU:HG2	1:Ag:65:PRO:C	2.44	0.43
3:Aj:60:GLU:CB	3:Aj:63:SER:HB3	2.49	0.43
1:Al:14:ILE:O	1:Al:15:VAL:C	2.60	0.43
3:An:57:LYS:HD2	3:An:65:GLU:HG3	2.01	0.43
3:An:79:LEU:HD13	3:An:79:LEU:C	2.43	0.43
4:Ap:1:LYS:HZ3	4:Ap:128:GLU:HA	1.82	0.43
3:As:86:ASP:O	3:As:87:THR:C	2.61	0.43
3:At:23:TRP:HA	3:At:23:TRP:HE3	1.82	0.43
4:Au:79:LEU:CD1	4:Au:85:LEU:HD22	2.45	0.43
2:Aw:31:ARG:HB3	2:Aw:71:GLN:HE22	1.83	0.43
2:Aw:127:GLY:O	5:Cu:62:TYR:HE2	2.00	0.43
3:Ay:13:ARG:NE	8:C0:215:PHE:CZ	2.85	0.43
6:B1:15:ILE:O	6:B1:17:HIS:N	2.50	0.43
7:B4:12:HIS:HB2	7:B4:85:LEU:HD13	1.99	0.43
5:BC:17:VAL:HG13	5:BC:135:TRP:CZ2	2.53	0.43
6:BD:19:TRP:C	6:BD:21:ASP:N	2.75	0.43
6:BD:19:TRP:CD2	6:BD:81:ILE:HD12	2.53	0.43
6:BD:96:HIS:O	6:BD:100:GLN:HG3	2.17	0.43
6:BI:19:TRP:C	6:BI:21:ASP:N	2.75	0.43
4:BJ:1:LYS:HB2	4:BJ:2:LYS:H	1.34	0.43
4:BK:78:THR:HG22	7:BL:72:LEU:HD11	2.00	0.43
6:BS:19:TRP:CD2	6:BS:81:ILE:HD12	2.53	0.43
4:BU:78:THR:HG22	7:BV:72:LEU:HD11	2.00	0.43
5:BW:111:PHE:N	5:BW:111:PHE:CD1	2.85	0.43
4:BZ:130:TRP:O	4:BZ:131:ASP:C	2.59	0.43
7:Ba:12:HIS:HB2	7:Ba:85:LEU:HD13	1.99	0.43
7:Bf:12:HIS:HB2	7:Bf:85:LEU:HD13	1.99	0.43
5:Bg:17:VAL:HG13	5:Bg:135:TRP:CZ2	2.53	0.43
4:Bn:130:TRP:O	4:Bn:131:ASP:C	2.61	0.43
7:Bp:87:ASP:OD1	7:Bp:89:PRO:HG2	2.17	0.43
6:Br:96:HIS:O	6:Br:100:GLN:HG3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C3:45:LYS:HA	7:C3:45:LYS:HE3	1.99	0.43
7:C3:70:HIS:O	7:C3:71:ALA:C	2.60	0.43
5:C4:134:ALA:O	5:C4:138:CYS:HB2	2.18	0.43
8:C5:56:ASN:HA	8:C5:199:GLY:CA	2.39	0.43
8:C5:78:HIS:ND1	8:C5:80:LEU:HB2	2.32	0.43
9:C6:92:ALA:HB1	9:C6:94:ASP:OD2	2.18	0.43
8:CC:109:SER:HB2	8:CC:224:ARG:NH2	2.33	0.43
8:CC:132:ILE:HD13	8:CC:149:ALA:HB2	1.99	0.43
8:CC:210:VAL:CG1	8:CC:215:PHE:HB3	2.48	0.43
9:CD:47:VAL:CG1	9:CD:48:SER:N	2.81	0.43
8:CH:82:PHE:HA	8:CH:83:CYS:HA	1.65	0.43
7:CK:88:PRO:HG2	7:CK:89:PRO:CD	2.48	0.43
9:CN:138:ARG:CD	10:CT:157:ASP:CG	2.90	0.43
9:CN:147:LEU:HD23	9:CN:171:TYR:HA	1.99	0.43
7:CP:70:HIS:O	7:CP:71:ALA:C	2.60	0.43
8:CR:13:LEU:HG	8:CR:14:VAL:N	2.32	0.43
8:CR:109:SER:HB2	8:CR:224:ARG:NH2	2.33	0.43
8:CR:173:PHE:HD1	8:CR:173:PHE:HA	1.10	0.43
8:CR:225:TYR:CD1	8:CR:225:TYR:N	2.85	0.43
9:CS:207:CYS:HB2	9:CS:221:LEU:HB3	2.01	0.43
8:CW:105:THR:O	8:CW:105:THR:HG22	2.18	0.43
10:CY:140:PRO:HA	10:CY:171:PHE:HD2	1.83	0.43
7:CZ:45:LYS:HA	7:CZ:45:LYS:HE3	1.99	0.43
5:Ca:118:LEU:O	5:Ca:122:LEU:HG	2.18	0.43
5:Ca:134:ALA:O	5:Ca:138:CYS:HB2	2.18	0.43
8:Cb:101:SER:HB2	8:Cb:104:ILE:CG1	2.25	0.43
8:Cg:109:SER:HB2	8:Cg:224:ARG:NH2	2.33	0.43
9:Ch:47:VAL:CG1	9:Ch:48:SER:N	2.81	0.43
5:Ck:134:ALA:O	5:Ck:138:CYS:HB2	2.18	0.43
8:Cl:66:GLU:HG3	8:Cl:78:HIS:HA	2.00	0.43
8:Cl:210:VAL:CG1	8:Cl:215:PHE:HB3	2.48	0.43
9:Cm:162:VAL:CG1	9:Cm:163:THR:H	2.28	0.43
9:Cm:173:ASN:HD22	9:Cm:174:PHE:N	2.15	0.43
7:Co:88:PRO:HG2	7:Co:89:PRO:CD	2.48	0.43
8:Cq:10:PHE:HZ	9:Cr:10:LEU:HB3	1.82	0.43
9:Cr:109:ASN:HB2	9:Cr:111:PHE:CZ	2.53	0.43
9:Cr:138:ARG:CD	10:Cx:157:ASP:CG	2.90	0.43
9:Cr:147:LEU:HD23	9:Cr:171:TYR:HA	1.99	0.43
8:Cv:10:PHE:HZ	9:Cw:10:LEU:HB3	1.82	0.43
8:Cv:109:SER:HB2	8:Cv:224:ARG:NH2	2.33	0.43
9:Cw:207:CYS:HB2	9:Cw:221:LEU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Cy:151:LEU:HD23	7:Cy:151:LEU:HA	1.75	0.43
2:A1:49:ILE:C	2:A1:51:ALA:H	2.26	0.43
2:A6:49:ILE:C	2:A6:51:ALA:H	2.26	0.43
2:A6:49:ILE:C	2:A6:51:ALA:N	2.73	0.43
3:AA:15:ILE:O	3:AA:17:HIS:N	2.51	0.43
3:AA:18:ILE:CG2	3:AA:130:PHE:HD1	2.30	0.43
3:AA:60:GLU:CB	3:AA:63:SER:HB3	2.49	0.43
4:AB:87:GLU:HG2	1:AC:65:PRO:C	2.44	0.43
3:AE:19:TRP:HE1	3:AE:78:LYS:HD3	1.83	0.43
3:AE:57:LYS:HD2	3:AE:65:GLU:HG3	2.00	0.43
3:AF:60:GLU:CB	3:AF:63:SER:HB3	2.49	0.43
3:AF:80:LEU:HD22	3:AF:94:LEU:HD13	2.00	0.43
2:AI:31:ARG:O	2:AI:32:VAL:C	2.60	0.43
2:AI:75:SER:O	2:AI:78:ASP:HB3	2.18	0.43
2:AI:84:LEU:HD12	2:AI:90:LEU:HD11	1.96	0.43
3:AK:123:LEU:HA	3:AK:126:VAL:CG2	2.47	0.43
4:AL:78:THR:CG2	4:AL:85:LEU:N	2.82	0.43
4:AL:87:GLU:HG2	1:AM:65:PRO:C	2.43	0.43
3:AP:64:GLY:HA2	3:AP:67:LYS:HB2	2.01	0.43
4:AQ:87:GLU:HG2	1:AR:65:PRO:C	2.44	0.43
2:AS:127:GLY:O	5:CQ:62:TYR:HE2	2.00	0.43
3:AU:15:ILE:O	3:AU:17:HIS:N	2.51	0.43
4:Aa:80:ASP:OD1	4:Aa:81:GLN:HG3	2.18	0.43
2:Ac:17:VAL:HG13	2:Ac:135:TRP:CE2	2.53	0.43
2:Ac:49:ILE:C	2:Ac:51:ALA:N	2.73	0.43
3:Ad:69:HIS:O	3:Ad:70:LEU:C	2.59	0.43
3:Ad:123:LEU:O	3:Ad:127:LEU:HD23	2.18	0.43
3:Ae:60:GLU:CB	3:Ae:63:SER:HB3	2.49	0.43
3:Ai:57:LYS:HD2	3:Ai:65:GLU:HG3	2.00	0.43
3:Aj:80:LEU:HD22	3:Aj:94:LEU:HD13	2.00	0.43
2:Am:75:SER:O	2:Am:78:ASP:HB3	2.18	0.43
2:Am:84:LEU:HD12	2:Am:90:LEU:HD11	1.96	0.43
3:An:23:TRP:HH2	3:An:75:ASN:N	2.16	0.43
3:Ao:19:TRP:C	3:Ao:21:ASP:N	2.75	0.43
2:Ar:127:GLY:O	5:Cp:62:TYR:HE2	2.00	0.43
3:As:57:LYS:HD2	3:As:65:GLU:HG3	2.00	0.43
3:At:64:GLY:HA2	3:At:67:LYS:HB2	2.01	0.43
3:At:80:LEU:HD22	3:At:94:LEU:HD13	2.00	0.43
3:Ax:19:TRP:C	3:Ax:21:ASP:N	2.76	0.43
3:Ay:15:ILE:O	3:Ay:17:HIS:N	2.51	0.43
4:Az:80:ASP:OD1	4:Az:81:GLN:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B1:80:LEU:HD22	6:B1:94:LEU:HD13	2.00	0.43
6:B1:123:LEU:HA	6:B1:126:VAL:CG2	2.48	0.43
4:B3:78:THR:HG22	7:B4:72:LEU:HD11	2.00	0.43
6:B6:108:THR:H	6:B6:111:TYR:HD2	1.65	0.43
7:BB:12:HIS:HB2	7:BB:85:LEU:HD13	1.99	0.43
4:BF:24:HIS:O	4:BF:25:ASP:C	2.61	0.43
6:BI:19:TRP:CD2	6:BI:81:ILE:HD12	2.53	0.43
6:BI:108:THR:H	6:BI:111:TYR:HD2	1.65	0.43
6:BI:150:LEU:HA	6:BI:150:LEU:HD23	1.08	0.43
4:BJ:85:LEU:O	4:BJ:86:LYS:C	2.59	0.43
4:BJ:130:TRP:O	4:BJ:131:ASP:C	2.61	0.43
4:BK:84:THR:O	4:BK:85:LEU:C	2.62	0.43
7:BL:12:HIS:HB2	7:BL:85:LEU:HD13	1.99	0.43
6:BN:96:HIS:O	6:BN:100:GLN:HG3	2.17	0.43
7:BQ:12:HIS:HB2	7:BQ:85:LEU:HD13	1.99	0.43
5:BR:107:LYS:HB2	5:BR:110:PHE:CE2	2.52	0.43
4:BT:1:LYS:HB2	4:BT:2:LYS:H	1.34	0.43
4:BT:73:ASP:O	4:BT:74:ILE:C	2.62	0.43
4:BT:84:THR:O	4:BT:85:LEU:C	2.61	0.43
7:BV:45:LYS:HA	7:BV:45:LYS:HE3	1.98	0.43
6:BX:80:LEU:HD22	6:BX:94:LEU:HD13	2.00	0.43
4:BZ:78:THR:HG22	7:Ba:72:LEU:HD11	2.00	0.43
4:Bd:81:GLN:H	4:Bd:81:GLN:HG3	1.47	0.43
4:Bi:24:HIS:O	4:Bi:25:ASP:C	2.59	0.43
4:Bo:84:THR:O	4:Bo:85:LEU:C	2.62	0.43
6:Br:150:LEU:HA	6:Br:150:LEU:HD23	1.08	0.43
7:Bu:12:HIS:HB2	7:Bu:85:LEU:HD13	1.99	0.43
4:Bx:1:LYS:HB2	4:Bx:2:LYS:H	1.34	0.43
4:Bx:73:ASP:O	4:Bx:74:ILE:C	2.62	0.43
4:By:78:THR:HG22	7:Bz:72:LEU:HD11	2.00	0.43
8:C0:13:LEU:HG	8:C0:14:VAL:N	2.33	0.43
8:C0:147:LEU:HD12	8:C0:169:GLY:O	2.18	0.43
9:C1:207:CYS:HB2	9:C1:221:LEU:HB3	2.01	0.43
9:C6:31:LEU:HD13	10:C7:28:ILE:HA	1.90	0.43
5:CB:11:VAL:CG2	5:CB:12:THR:N	2.82	0.43
10:CE:67:HIS:HB3	10:CE:77:ILE:HD12	2.01	0.43
5:CG:134:ALA:O	5:CG:138:CYS:HB2	2.18	0.43
8:CH:34:GLU:HA	8:CH:37:LYS:CE	2.45	0.43
8:CH:66:GLU:HG3	8:CH:78:HIS:HA	2.00	0.43
8:CH:210:VAL:CG1	8:CH:215:PHE:HB3	2.48	0.43
9:CI:38:ALA:H	10:CJ:35:LEU:HD11	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:47:VAL:CG1	9:CI:48:SER:N	2.81	0.43
10:CJ:24:ILE:C	10:CJ:26:THR:N	2.74	0.43
8:CM:10:PHE:HZ	9:CN:10:LEU:HB3	1.82	0.43
8:CM:210:VAL:CG1	8:CM:215:PHE:HB3	2.48	0.43
9:CN:82:VAL:HA	9:CN:88:ASP:CB	2.48	0.43
9:CN:92:ALA:HB1	9:CN:94:ASP:OD2	2.18	0.43
9:CN:138:ARG:HD3	9:CN:138:ARG:HA	1.73	0.43
5:CQ:83:MET:HG3	5:CQ:93:GLN:HG2	2.00	0.43
8:CR:80:LEU:HD13	8:CR:80:LEU:HA	1.85	0.43
8:CW:147:LEU:HD12	8:CW:169:GLY:O	2.18	0.43
8:Cb:210:VAL:CG1	8:Cb:215:PHE:HB3	2.48	0.43
9:Cc:92:ALA:HB1	9:Cc:94:ASP:OD2	2.18	0.43
8:Cg:132:ILE:HD13	8:Cg:149:ALA:HB2	1.99	0.43
10:CI:67:HIS:HB3	10:CI:77:ILE:HD12	2.01	0.43
10:CI:179:HIS:HA	10:CI:180:PRO:HD3	1.57	0.43
7:Cj:70:HIS:O	7:Cj:71:ALA:C	2.61	0.43
8:Cl:13:LEU:HG	8:Cl:14:VAL:N	2.33	0.43
8:Cl:34:GLU:HA	8:Cl:37:LYS:CE	2.45	0.43
8:Cl:101:SER:HB2	8:Cl:104:ILE:CG1	2.25	0.43
9:Cm:109:ASN:HB2	9:Cm:111:PHE:CZ	2.53	0.43
10:Cn:24:ILE:C	10:Cn:26:THR:N	2.74	0.43
9:Cr:82:VAL:HA	9:Cr:88:ASP:CB	2.48	0.43
9:Cr:92:ALA:HB1	9:Cr:94:ASP:OD2	2.18	0.43
7:Ct:70:HIS:O	7:Ct:71:ALA:C	2.60	0.43
10:Cx:18:ILE:HG23	10:Cx:19:GLU:H	1.81	0.43
1:A0:65:PRO:C	4:Az:87:GLU:HG2	2.44	0.43
3:A2:60:GLU:CB	3:A2:63:SER:HB3	2.49	0.43
3:A3:60:GLU:CB	3:A3:63:SER:HB3	2.49	0.43
3:A3:80:LEU:HD22	3:A3:94:LEU:HD13	2.00	0.43
4:A4:80:ASP:OD1	4:A4:81:GLN:HG3	2.18	0.43
4:AB:78:THR:CG2	4:AB:85:LEU:N	2.82	0.43
4:AB:120:GLN:HG2	8:CC:80:LEU:HD21	2.01	0.43
3:AF:27:PHE:N	3:AF:27:PHE:CD1	2.86	0.43
3:AF:86:ASP:O	3:AF:87:THR:C	2.61	0.43
4:AG:87:GLU:HG2	1:AH:65:PRO:C	2.44	0.43
1:AH:14:ILE:O	1:AH:15:VAL:C	2.60	0.43
3:AO:57:LYS:HD2	3:AO:65:GLU:HG3	2.00	0.43
3:AO:86:ASP:O	3:AO:87:THR:C	2.61	0.43
3:AP:80:LEU:HD22	3:AP:94:LEU:HD13	2.00	0.43
4:AQ:24:HIS:O	4:AQ:25:ASP:C	2.61	0.43
4:AQ:78:THR:CG2	4:AQ:85:LEU:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AS:17:VAL:HG13	2:AS:135:TRP:CE2	2.53	0.43
3:AU:123:LEU:HA	3:AU:126:VAL:CG2	2.47	0.43
4:AV:87:GLU:HG2	1:AW:65:PRO:C	2.44	0.43
2:AX:49:ILE:C	2:AX:51:ALA:H	2.26	0.43
3:AY:23:TRP:CD1	3:AY:78:LYS:HZ2	2.35	0.43
3:AY:60:GLU:CB	3:AY:63:SER:HB3	2.49	0.43
3:AY:142:LEU:O	3:AY:146:ILE:HG13	2.18	0.43
3:AZ:60:GLU:CB	3:AZ:63:SER:HB3	2.49	0.43
3:AZ:80:LEU:HD22	3:AZ:94:LEU:HD13	2.00	0.43
1:Ab:12:HIS:O	1:Ab:13:ARG:C	2.60	0.43
3:Ae:15:ILE:O	3:Ae:17:HIS:N	2.51	0.43
4:Af:73:ASP:O	4:Af:74:ILE:C	2.61	0.43
4:Af:78:THR:CG2	4:Af:85:LEU:N	2.82	0.43
1:Ag:31:ILE:O	1:Ag:32:LYS:C	2.60	0.43
3:Ai:19:TRP:HE1	3:Ai:78:LYS:HD3	1.83	0.43
3:Aj:15:ILE:O	3:Aj:17:HIS:N	2.51	0.43
3:Aj:27:PHE:N	3:Aj:27:PHE:CD1	2.86	0.43
4:Ak:87:GLU:HG2	1:Al:65:PRO:C	2.44	0.43
3:Ao:65:GLU:H	3:Ao:65:GLU:HG2	1.68	0.43
3:Ao:123:LEU:HA	3:Ao:126:VAL:CG2	2.47	0.43
4:Ap:78:THR:CG2	4:Ap:85:LEU:N	2.82	0.43
4:Ap:87:GLU:HG2	1:Aq:65:PRO:C	2.43	0.43
4:Au:78:THR:CG2	4:Au:85:LEU:N	2.82	0.43
4:Au:87:GLU:HG2	1:Av:65:PRO:C	2.44	0.43
1:Av:45:LYS:HA	1:Av:45:LYS:HE3	2.00	0.43
4:Az:24:HIS:O	4:Az:25:ASP:C	2.61	0.43
4:B3:130:TRP:O	4:B3:131:ASP:C	2.59	0.43
7:B4:45:LYS:HA	7:B4:45:LYS:HE3	1.98	0.43
5:B5:79:ILE:O	5:B5:80:THR:C	2.61	0.43
6:B6:128:SER:O	6:B6:129:CYS:HB2	2.19	0.43
7:BL:87:ASP:OD1	7:BL:89:PRO:HG2	2.17	0.43
6:BN:72:ARG:CZ	5:CL:96:HIS:CD2	3.02	0.43
6:BN:143:VAL:O	6:BN:144:ALA:C	2.62	0.43
5:BR:8:GLU:HB3	5:BR:141:GLN:HE22	1.84	0.43
6:BX:123:LEU:HA	6:BX:126:VAL:CG2	2.48	0.43
5:Bb:79:ILE:O	5:Bb:80:THR:C	2.61	0.43
4:Bj:24:HIS:O	4:Bj:25:ASP:C	2.61	0.43
6:Bm:19:TRP:CD2	6:Bm:81:ILE:HD12	2.53	0.43
7:Bp:12:HIS:HB2	7:Bp:85:LEU:HD13	1.99	0.43
6:Br:72:ARG:CZ	5:Cp:96:HIS:CD2	3.02	0.43
6:Br:143:VAL:O	6:Br:144:ALA:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bt:84:THR:O	4:Bt:85:LEU:C	2.61	0.43
5:Bv:107:LYS:HB2	5:Bv:110:PHE:CE2	2.52	0.43
4:Bx:84:THR:O	4:Bx:85:LEU:C	2.61	0.43
8:C0:132:ILE:HD13	8:C0:149:ALA:HB2	1.99	0.43
9:C1:23:ARG:CZ	10:CT:18:ILE:CG1	2.96	0.43
10:C2:140:PRO:HA	10:C2:171:PHE:HD2	1.83	0.43
9:C6:170:GLY:HA3	9:C6:180:ILE:O	2.19	0.43
10:C7:69:CYS:HB3	10:C7:89:CYS:SG	2.58	0.43
8:CC:225:TYR:CD1	8:CC:225:TYR:N	2.85	0.43
9:CD:170:GLY:HA3	9:CD:180:ILE:O	2.18	0.43
8:CH:13:LEU:HG	8:CH:14:VAL:N	2.33	0.43
9:CI:43:PRO:CD	10:CJ:38:ARG:NE	2.82	0.43
9:CI:109:ASN:HB2	9:CI:111:PHE:CZ	2.53	0.43
9:CN:31:LEU:CD1	10:CO:28:ILE:C	2.89	0.43
9:CN:170:GLY:HA3	9:CN:180:ILE:O	2.19	0.43
8:CR:10:PHE:HZ	9:CS:10:LEU:HB3	1.82	0.43
10:CT:45:ARG:HG3	10:CT:46:LYS:N	2.34	0.43
8:CW:109:SER:HB2	8:CW:224:ARG:NH2	2.33	0.43
9:CX:23:ARG:CZ	10:Cx:18:ILE:CG1	2.96	0.43
9:CX:207:CYS:HB2	9:CX:221:LEU:HB3	2.01	0.43
9:CX:209:ARG:HA	9:CX:209:ARG:HD2	1.78	0.43
7:CZ:88:PRO:HG2	7:CZ:89:PRO:CD	2.48	0.43
8:Cb:56:ASN:HD22	8:Cb:198:LEU:HB3	1.77	0.43
9:Cc:31:LEU:HD13	10:Cd:28:ILE:HA	1.90	0.43
9:Cc:170:GLY:HA3	9:Cc:180:ILE:O	2.19	0.43
10:Cd:69:CYS:HB3	10:Cd:89:CYS:SG	2.58	0.43
10:Cd:196:ASN:HA	10:Cd:197:PHE:HA	1.83	0.43
5:Cf:11:VAL:CG2	5:Cf:12:THR:N	2.82	0.43
8:Cg:225:TYR:CD1	8:Cg:225:TYR:N	2.85	0.43
9:Ch:170:GLY:HA3	9:Ch:180:ILE:O	2.18	0.43
8:Cl:82:PHE:HA	8:Cl:83:CYS:HA	1.65	0.43
9:Cm:29:GLU:O	9:Cm:32:ARG:HB2	2.18	0.43
9:Cm:47:VAL:CG1	9:Cm:48:SER:N	2.81	0.43
10:Cn:69:CYS:SG	10:Cn:75:GLN:HB3	2.57	0.43
8:Cq:173:PHE:HD1	8:Cq:173:PHE:HA	1.10	0.43
8:Cq:210:VAL:CG1	8:Cq:215:PHE:HB3	2.48	0.43
9:Cr:170:GLY:HA3	9:Cr:180:ILE:O	2.19	0.43
7:Ct:151:LEU:HA	7:Ct:151:LEU:HD23	1.75	0.43
5:Cu:83:MET:HG3	5:Cu:93:GLN:HG2	2.00	0.43
8:Cv:225:TYR:CD1	8:Cv:225:TYR:N	2.85	0.43
10:Cx:45:ARG:HG3	10:Cx:46:LYS:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cx:81:PHE:HD1	10:Cx:81:PHE:HA	1.48	0.43
2:A1:75:SER:O	2:A1:78:ASP:HB3	2.18	0.43
3:A2:142:LEU:O	3:A2:146:ILE:HG13	2.18	0.43
4:A4:120:GLN:HG2	8:C5:80:LEU:HD21	2.01	0.43
4:AB:73:ASP:O	4:AB:74:ILE:C	2.61	0.43
2:AD:75:SER:O	2:AD:78:ASP:HB3	2.18	0.43
3:AF:15:ILE:O	3:AF:17:HIS:N	2.51	0.43
4:AG:78:THR:CG2	4:AG:85:LEU:N	2.82	0.43
3:AJ:123:LEU:O	3:AJ:127:LEU:HD23	2.18	0.43
3:AK:64:GLY:HA2	3:AK:67:LYS:HB2	2.01	0.43
3:AK:150:LEU:HD23	3:AK:150:LEU:N	2.24	0.43
3:AO:23:TRP:HH2	3:AO:75:ASN:N	2.16	0.43
3:AP:49:SER:O	3:AP:50:LYS:C	2.62	0.43
1:AR:45:LYS:HA	1:AR:45:LYS:HE3	2.00	0.43
3:AT:57:LYS:HD2	3:AT:65:GLU:HG3	2.00	0.43
3:AU:64:GLY:HA2	3:AU:67:LYS:HB2	2.01	0.43
3:AU:131:ASN:C	3:AU:131:ASN:HD22	2.25	0.43
4:AV:24:HIS:O	4:AV:25:ASP:C	2.61	0.43
4:AV:80:ASP:OD1	4:AV:81:GLN:HG3	2.18	0.43
4:AV:120:GLN:HG2	8:CW:80:LEU:HD21	2.01	0.43
3:AZ:136:ASN:HD22	3:AZ:136:ASN:HA	1.56	0.43
4:Aa:120:GLN:HG2	8:Cb:80:LEU:HD21	2.01	0.43
4:Af:120:GLN:HG2	8:Cg:80:LEU:HD21	2.01	0.43
2:Ah:75:SER:O	2:Ah:78:ASP:HB3	2.18	0.43
3:Aj:86:ASP:O	3:Aj:87:THR:C	2.61	0.43
3:Ao:64:GLY:HA2	3:Ao:67:LYS:HB2	2.01	0.43
2:Ar:8:GLU:HG3	2:Ar:141:GLN:CD	2.43	0.43
3:At:49:SER:O	3:At:50:LYS:C	2.62	0.43
4:Au:24:HIS:O	4:Au:25:ASP:C	2.61	0.43
2:Aw:17:VAL:HG13	2:Aw:135:TRP:CE2	2.53	0.43
2:Aw:31:ARG:O	2:Aw:32:VAL:C	2.60	0.43
2:Aw:83:MET:CG	2:Aw:90:LEU:HA	2.48	0.43
3:Ax:57:LYS:HD2	3:Ax:65:GLU:HG3	2.00	0.43
3:Ay:123:LEU:HA	3:Ay:126:VAL:CG2	2.47	0.43
3:Ay:131:ASN:HD22	3:Ay:131:ASN:C	2.25	0.43
4:BA:78:THR:HG22	7:BB:72:LEU:HD11	2.00	0.43
4:BA:92:LEU:O	4:BA:93:GLN:C	2.60	0.43
5:BC:75:SER:O	5:BC:78:ASP:HB3	2.19	0.43
6:BD:123:LEU:HA	6:BD:126:VAL:CG2	2.49	0.43
6:BI:72:ARG:CZ	5:CG:96:HIS:CD2	3.02	0.43
4:BK:92:LEU:O	4:BK:93:GLN:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BL:74:ILE:CG2	7:BL:75:LEU:H	2.25	0.43
6:BN:19:TRP:C	6:BN:21:ASP:N	2.75	0.43
6:BN:109:LYS:HD2	6:BN:151:PRO:CG	2.29	0.43
6:BN:150:LEU:HA	6:BN:150:LEU:HD23	1.08	0.43
4:BP:84:THR:O	4:BP:85:LEU:C	2.61	0.43
4:BT:120:GLN:HE21	10:CT:80:LEU:CD1	2.26	0.43
6:Bc:108:THR:H	6:Bc:111:TYR:HD2	1.65	0.43
6:Bc:128:SER:O	6:Bc:129:CYS:HB2	2.19	0.43
6:Bh:57:LYS:HD2	6:Bh:65:GLU:HG3	1.99	0.43
6:Bh:109:LYS:HD2	6:Bh:151:PRO:CG	2.29	0.43
6:Bm:72:ARG:CZ	5:Ck:96:HIS:CD2	3.02	0.43
6:Bm:96:HIS:O	6:Bm:100:GLN:HG3	2.17	0.43
4:Bn:85:LEU:O	4:Bn:86:LYS:C	2.59	0.43
5:Bq:69:HIS:O	5:Bq:70:SER:C	2.62	0.43
5:Bv:8:GLU:HB3	5:Bv:141:GLN:HE22	1.84	0.43
7:Bz:45:LYS:HA	7:Bz:45:LYS:HE3	1.98	0.43
8:C0:18:ASN:C	10:C2:20:ARG:NH1	2.67	0.43
8:C0:109:SER:HB2	8:C0:224:ARG:NH2	2.33	0.43
7:C3:32:LYS:HG2	7:C3:75:LEU:HD12	2.00	0.43
8:C5:210:VAL:CG1	8:C5:215:PHE:HB3	2.48	0.43
7:CA:45:LYS:HA	7:CA:45:LYS:HE3	1.99	0.43
7:CA:88:PRO:HG2	7:CA:89:PRO:CD	2.48	0.43
7:CA:113:PHE:O	7:CA:114:LYS:C	2.60	0.43
10:CE:89:CYS:HB3	10:CE:92:GLY:H	1.83	0.43
7:CF:70:HIS:O	7:CF:71:ALA:C	2.61	0.43
8:CH:10:PHE:HZ	9:CI:10:LEU:HB3	1.82	0.43
9:CI:29:GLU:O	9:CI:32:ARG:HB2	2.18	0.43
9:CI:75:GLU:HG2	9:CI:76:CYS:N	2.34	0.43
10:CJ:69:CYS:SG	10:CJ:75:GLN:HB3	2.57	0.43
5:CL:83:MET:HG3	5:CL:93:GLN:HG2	2.00	0.43
5:CL:134:ALA:O	5:CL:138:CYS:HB2	2.18	0.43
8:CM:21:ILE:H	10:CO:20:ARG:NH1	2.12	0.43
8:CM:28:LEU:HD12	10:CO:24:ILE:HG13	2.00	0.43
8:CM:56:ASN:CA	8:CM:199:GLY:CA	2.64	0.43
9:CN:13:ARG:HH12	10:CO:14:ILE:CB	2.28	0.43
9:CN:57:ILE:CG1	10:CO:57:LEU:HD12	2.44	0.43
9:CN:75:GLU:HG2	9:CN:76:CYS:N	2.34	0.43
9:CN:199:ARG:CG	9:CN:204:ARG:HB2	2.40	0.43
10:CO:45:ARG:HG3	10:CO:46:LYS:N	2.34	0.43
9:CS:20:LEU:HD23	9:CS:20:LEU:O	2.19	0.43
8:CW:14:VAL:HG11	10:CY:13:ILE:CG2	2.11	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CW:132:ILE:HD13	8:CW:149:ALA:HB2	1.99	0.43
7:CZ:32:LYS:HG2	7:CZ:75:LEU:HD12	2.00	0.43
9:Cc:109:ASN:HB2	9:Cc:111:PHE:CZ	2.53	0.43
10:Cd:18:ILE:HG23	10:Cd:19:GLU:H	1.81	0.43
7:Ce:45:LYS:HE3	7:Ce:45:LYS:HA	1.99	0.43
9:Ch:57:ILE:HD13	10:Ci:57:LEU:CB	2.48	0.43
8:Cl:10:PHE:HZ	9:Cm:10:LEU:HB3	1.82	0.43
9:Cm:38:ALA:H	10:Cn:35:LEU:HD11	1.82	0.43
9:Cm:43:PRO:CD	10:Cn:38:ARG:NE	2.82	0.43
9:Cm:75:GLU:HG2	9:Cm:76:CYS:N	2.34	0.43
10:Cn:140:PRO:HA	10:Cn:171:PHE:HD2	1.83	0.43
5:Cp:83:MET:HG3	5:Cp:93:GLN:HG2	2.00	0.43
5:Cp:118:LEU:O	5:Cp:122:LEU:HG	2.18	0.43
5:Cp:134:ALA:O	5:Cp:138:CYS:HB2	2.18	0.43
9:Cr:13:ARG:HH12	10:Cs:14:ILE:CB	2.28	0.43
9:Cr:75:GLU:HG2	9:Cr:76:CYS:N	2.34	0.43
9:Cr:199:ARG:CG	9:Cr:204:ARG:HB2	2.40	0.43
10:Cs:45:ARG:HG3	10:Cs:46:LYS:N	2.34	0.43
8:Cv:28:LEU:HD12	10:Cx:24:ILE:HG13	2.00	0.43
3:A2:123:LEU:O	3:A2:127:LEU:HD23	2.18	0.43
3:A3:55:ARG:O	3:A3:55:ARG:HD2	2.19	0.43
3:A3:86:ASP:O	3:A3:87:THR:C	2.60	0.43
3:A3:136:ASN:HD22	3:A3:136:ASN:HA	1.56	0.43
1:A5:12:HIS:O	1:A5:13:ARG:C	2.60	0.43
2:A6:8:GLU:HG3	2:A6:141:GLN:CD	2.43	0.43
2:A6:10:LEU:HB3	2:A6:13:GLU:CG	2.49	0.43
1:AC:31:ILE:O	1:AC:32:LYS:C	2.60	0.43
3:AF:8:SER:HB3	3:AF:11:ASP:OD2	2.18	0.43
2:AI:125:ARG:HG2	2:AI:125:ARG:NH1	2.34	0.43
3:AK:8:SER:HB3	3:AK:11:ASP:OD2	2.18	0.43
2:AN:8:GLU:HG3	2:AN:141:GLN:CD	2.43	0.43
3:AO:60:GLU:CB	3:AO:63:SER:HB3	2.49	0.43
3:AO:102:ILE:HD11	3:AO:149:ASP:C	2.44	0.43
3:AP:19:TRP:C	3:AP:21:ASP:N	2.75	0.43
4:AQ:120:GLN:HG2	8:CR:80:LEU:HD21	2.01	0.43
1:AR:12:HIS:O	1:AR:13:ARG:C	2.60	0.43
2:AS:83:MET:CG	2:AS:90:LEU:HA	2.48	0.43
3:AT:23:TRP:HH2	3:AT:75:ASN:N	2.16	0.43
4:AV:78:THR:CG2	4:AV:85:LEU:N	2.82	0.43
2:AX:75:SER:O	2:AX:78:ASP:HB3	2.18	0.43
3:AZ:55:ARG:O	3:AZ:55:ARG:HD2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AZ:86:ASP:O	3:AZ:87:THR:C	2.60	0.43
3:AZ:150:LEU:HD23	3:AZ:150:LEU:N	2.24	0.43
4:Aa:24:HIS:O	4:Aa:25:ASP:C	2.61	0.43
2:Ac:8:GLU:HG3	2:Ac:141:GLN:CD	2.43	0.43
2:Ac:10:LEU:HB3	2:Ac:13:GLU:CG	2.49	0.43
2:Ac:31:ARG:HB3	2:Ac:71:GLN:HE22	1.83	0.43
4:Af:80:ASP:OD1	4:Af:81:GLN:HG3	2.18	0.43
4:Ak:78:THR:CG2	4:Ak:85:LEU:N	2.82	0.43
2:Am:125:ARG:HG2	2:Am:125:ARG:NH1	2.34	0.43
3:An:123:LEU:O	3:An:127:LEU:HD23	2.18	0.43
4:Ap:79:LEU:HD12	4:Ap:79:LEU:HA	1.66	0.43
1:Aq:31:ILE:O	1:Aq:32:LYS:C	2.60	0.43
3:As:23:TRP:HH2	3:As:75:ASN:N	2.16	0.43
3:As:102:ILE:HD11	3:As:149:ASP:C	2.44	0.43
2:Aw:111:PHE:N	2:Aw:111:PHE:CD1	2.86	0.43
3:Ay:64:GLY:HA2	3:Ay:67:LYS:HB2	2.01	0.43
4:Az:78:THR:CG2	4:Az:85:LEU:N	2.82	0.43
4:Az:120:GLN:HG2	8:C0:80:LEU:HD21	2.01	0.43
6:B1:86:ASP:O	6:B1:87:THR:C	2.62	0.43
4:B2:73:ASP:O	4:B2:74:ILE:C	2.62	0.43
5:BH:75:SER:O	5:BH:78:ASP:HB3	2.19	0.43
6:BI:96:HIS:O	6:BI:100:GLN:HG3	2.17	0.43
5:BM:69:HIS:O	5:BM:70:SER:C	2.62	0.43
4:BO:92:LEU:O	4:BO:93:GLN:C	2.61	0.43
6:BX:86:ASP:O	6:BX:87:THR:C	2.62	0.43
4:BY:73:ASP:O	4:BY:74:ILE:C	2.62	0.43
7:Ba:45:LYS:HA	7:Ba:45:LYS:HE3	1.98	0.43
4:Be:78:THR:HG22	7:Bf:72:LEU:HD11	2.00	0.43
4:Be:92:LEU:O	4:Be:93:GLN:C	2.60	0.43
4:Be:99:ARG:HE	4:Be:99:ARG:N	2.17	0.43
5:Bg:75:SER:O	5:Bg:78:ASP:HB3	2.19	0.43
5:Bg:79:ILE:O	5:Bg:80:THR:C	2.61	0.43
6:Bh:123:LEU:HA	6:Bh:126:VAL:CG2	2.49	0.43
4:Bj:101:ILE:HA	4:Bj:102:PRO:HD3	1.47	0.43
5:BI:75:SER:O	5:BI:78:ASP:HB3	2.19	0.43
4:Bo:92:LEU:O	4:Bo:93:GLN:C	2.60	0.43
6:Br:19:TRP:C	6:Br:21:ASP:N	2.75	0.43
6:Bw:108:THR:H	6:Bw:111:TYR:HD2	1.65	0.43
8:C0:184:LYS:C	8:C0:186:GLN:H	2.23	0.43
9:C1:20:LEU:HD23	9:C1:20:LEU:O	2.19	0.43
9:C1:82:VAL:HA	9:C1:88:ASP:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C1:92:ALA:HB1	9:C1:94:ASP:OD2	2.18	0.43
9:C1:173:ASN:HD22	9:C1:173:ASN:C	2.27	0.43
9:C6:109:ASN:HB2	9:C6:111:PHE:CZ	2.53	0.43
9:CD:139:LYS:HZ3	10:CJ:158:GLU:HB2	1.83	0.43
7:CF:32:LYS:HG2	7:CF:75:LEU:HD12	2.00	0.43
8:CH:21:ILE:H	10:CJ:20:ARG:NH1	2.12	0.43
9:CI:128:THR:HB	9:CI:221:LEU:HD11	2.01	0.43
7:CK:9:GLU:HG3	9:CN:119:GLY:O	2.19	0.43
7:CK:95:LEU:HD21	7:CK:143:ILE:HG23	2.00	0.43
8:CR:28:LEU:HD12	10:CT:24:ILE:HG13	2.00	0.43
9:CS:147:LEU:HD23	9:CS:171:TYR:HA	1.99	0.43
9:CS:173:ASN:HD22	9:CS:173:ASN:C	2.27	0.43
8:CW:114:LEU:HD12	8:CW:126:ASP:C	2.43	0.43
8:CW:137:ARG:HB3	8:CW:138:LYS:O	2.19	0.43
8:CW:184:LYS:C	8:CW:186:GLN:H	2.23	0.43
9:CX:20:LEU:HD23	9:CX:20:LEU:O	2.19	0.43
9:CX:82:VAL:HA	9:CX:88:ASP:CB	2.48	0.43
9:CX:173:ASN:HD22	9:CX:173:ASN:C	2.27	0.43
8:Cb:66:GLU:HG3	8:Cb:78:HIS:HA	2.00	0.43
10:Cd:24:ILE:C	10:Cd:26:THR:N	2.75	0.43
7:Ce:113:PHE:O	7:Ce:114:LYS:C	2.60	0.43
8:Cg:10:PHE:HZ	9:Ch:10:LEU:HB3	1.82	0.43
10:Ci:89:CYS:HB3	10:Ci:92:GLY:H	1.83	0.43
7:Cj:32:LYS:HG2	7:Cj:75:LEU:HD12	2.00	0.43
8:Cq:21:ILE:H	10:Cs:20:ARG:NH1	2.12	0.43
8:Cq:28:LEU:HD12	10:Cs:24:ILE:HG13	2.00	0.43
9:Cr:31:LEU:CD1	10:Cs:28:ILE:C	2.89	0.43
9:Cw:20:LEU:HD23	9:Cw:20:LEU:O	2.19	0.43
9:Cw:147:LEU:HD23	9:Cw:171:TYR:HA	1.99	0.43
9:Cw:173:ASN:HD22	9:Cw:173:ASN:C	2.27	0.43
5:Cz:11:VAL:CG2	5:Cz:12:THR:N	2.82	0.43
1:A0:113:PHE:O	1:A0:114:LYS:C	2.62	0.43
4:A4:24:HIS:O	4:A4:25:ASP:C	2.61	0.43
2:A6:31:ARG:HB3	2:A6:71:GLN:HE22	1.83	0.43
3:A7:19:TRP:C	3:A7:21:ASP:N	2.76	0.43
4:AB:80:ASP:OD1	4:AB:81:GLN:HG3	2.18	0.43
2:AD:8:GLU:HG3	2:AD:141:GLN:CD	2.43	0.43
2:AD:125:ARG:HG2	2:AD:125:ARG:NH1	2.34	0.43
4:AL:120:GLN:HG2	8:CM:80:LEU:HD21	2.01	0.43
3:AO:19:TRP:C	3:AO:21:ASP:N	2.76	0.43
3:AP:8:SER:HB3	3:AP:11:ASP:OD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AP:131:ASN:C	3:AP:131:ASN:HD22	2.25	0.43
4:AQ:58:HIS:CE1	4:AQ:59:PRO:HG2	2.54	0.43
2:AS:31:ARG:O	2:AS:32:VAL:C	2.60	0.43
2:AS:111:PHE:N	2:AS:111:PHE:CD1	2.86	0.43
3:AU:94:LEU:HD12	3:AU:94:LEU:HA	1.84	0.43
1:AW:113:PHE:O	1:AW:114:LYS:C	2.62	0.43
3:AY:123:LEU:O	3:AY:127:LEU:HD23	2.18	0.43
3:Ad:19:TRP:C	3:Ad:21:ASP:N	2.76	0.43
3:Ae:8:SER:HB3	3:Ae:11:ASP:OD2	2.18	0.43
3:Aj:8:SER:HB3	3:Aj:11:ASP:OD2	2.18	0.43
1:Al:31:ILE:O	1:Al:32:LYS:C	2.60	0.43
2:Am:83:MET:SD	2:Am:93:GLN:CB	3.06	0.43
3:An:142:LEU:O	3:An:146:ILE:HG13	2.18	0.43
3:Ao:8:SER:HB3	3:Ao:11:ASP:OD2	2.18	0.43
4:Ap:120:GLN:HG2	8:Cq:80:LEU:HD21	2.01	0.43
3:As:19:TRP:C	3:As:21:ASP:N	2.76	0.43
3:As:60:GLU:CB	3:As:63:SER:HB3	2.49	0.43
3:At:8:SER:HB3	3:At:11:ASP:OD2	2.18	0.43
3:At:15:ILE:O	3:At:17:HIS:N	2.51	0.43
3:At:19:TRP:C	3:At:21:ASP:N	2.75	0.43
3:At:128:SER:O	3:At:129:CYS:HB2	2.19	0.43
3:At:131:ASN:C	3:At:131:ASN:HD22	2.25	0.43
4:Au:58:HIS:CE1	4:Au:59:PRO:HG2	2.54	0.43
4:Au:120:GLN:HG2	8:Cv:80:LEU:HD21	2.01	0.43
1:Av:12:HIS:O	1:Av:13:ARG:C	2.60	0.43
3:Ax:19:TRP:HE1	3:Ax:78:LYS:HD3	1.83	0.43
3:Ax:23:TRP:HH2	3:Ax:75:ASN:N	2.16	0.43
4:Az:58:HIS:CE1	4:Az:59:PRO:HG2	2.54	0.43
4:BA:99:ARG:HE	4:BA:99:ARG:N	2.17	0.43
5:BC:79:ILE:O	5:BC:80:THR:C	2.61	0.43
6:BD:57:LYS:HD2	6:BD:65:GLU:HG3	1.99	0.43
6:BD:102:ILE:CD1	6:BD:149:ASP:CB	2.88	0.43
4:BJ:120:GLN:HE21	10:CJ:80:LEU:CD1	2.26	0.43
4:BO:130:TRP:O	4:BO:131:ASP:C	2.61	0.43
6:BS:57:LYS:HD2	6:BS:65:GLU:HG3	1.99	0.43
6:BS:108:THR:H	6:BS:111:TYR:HD2	1.65	0.43
7:BV:14:ILE:O	7:BV:15:VAL:C	2.62	0.43
6:Bc:96:HIS:O	6:Bc:100:GLN:HG3	2.17	0.43
6:Bh:128:SER:O	6:Bh:129:CYS:HB2	2.19	0.43
5:Bq:17:VAL:HG13	5:Bq:135:TRP:CZ2	2.53	0.43
6:Br:65:GLU:HA	5:Cp:92:ALA:CB	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bw:57:LYS:HD2	6:Bw:65:GLU:HG3	1.99	0.43
6:Bw:72:ARG:CZ	5:Cu:96:HIS:CD2	3.02	0.43
6:Bw:123:LEU:HA	6:Bw:126:VAL:CG2	2.49	0.43
7:Bz:14:ILE:O	7:Bz:15:VAL:C	2.62	0.43
8:C0:114:LEU:HD12	8:C0:126:ASP:C	2.43	0.43
8:C0:137:ARG:HB3	8:C0:138:LYS:O	2.19	0.43
9:C1:109:ASN:HB2	9:C1:111:PHE:CZ	2.53	0.43
9:C1:128:THR:HB	9:C1:221:LEU:HD11	2.01	0.43
8:C5:137:ARG:HB3	8:C5:138:LYS:O	2.19	0.43
10:C7:67:HIS:HB3	10:C7:77:ILE:HD12	2.01	0.43
10:C7:93:GLU:C	10:C7:95:GLU:N	2.73	0.43
10:C7:180:PRO:HA	10:C7:181:PRO:HD2	1.40	0.43
5:CB:134:ALA:O	5:CB:138:CYS:HB2	2.18	0.43
8:CC:10:PHE:HZ	9:CD:10:LEU:HB3	1.82	0.43
9:CD:57:ILE:HD13	10:CE:57:LEU:CB	2.48	0.43
9:CD:82:VAL:HA	9:CD:88:ASP:CB	2.48	0.43
9:CD:173:ASN:HD22	9:CD:173:ASN:C	2.27	0.43
8:CH:28:LEU:HD12	10:CJ:24:ILE:HG13	2.00	0.43
8:CH:147:LEU:HD12	8:CH:169:GLY:O	2.18	0.43
9:CI:57:ILE:HD13	10:CJ:57:LEU:CB	2.48	0.43
9:CI:170:GLY:HA3	9:CI:180:ILE:O	2.19	0.43
9:CI:207:CYS:HB2	9:CI:221:LEU:HB3	2.01	0.43
10:CJ:140:PRO:HA	10:CJ:171:PHE:HD2	1.83	0.43
10:CJ:180:PRO:HA	10:CJ:181:PRO:HD2	1.40	0.43
5:CL:118:LEU:O	5:CL:122:LEU:HG	2.18	0.43
8:CM:42:VAL:HG21	8:CM:46:THR:OG1	2.08	0.43
8:CM:184:LYS:C	8:CM:186:GLN:H	2.23	0.43
9:CN:43:PRO:CD	10:CO:38:ARG:NE	2.82	0.43
7:CP:9:GLU:HG3	9:CS:119:GLY:O	2.19	0.43
5:CQ:49:ILE:C	5:CQ:51:ALA:N	2.76	0.43
9:CS:162:VAL:CG1	9:CS:163:THR:H	2.28	0.43
10:CT:62:CYS:HA	10:CT:76:CYS:SG	2.59	0.43
5:CV:11:VAL:CG2	5:CV:12:THR:N	2.82	0.43
5:CV:118:LEU:O	5:CV:122:LEU:HG	2.18	0.43
9:CX:43:PRO:CD	10:CY:38:ARG:NE	2.82	0.43
9:CX:128:THR:HB	9:CX:221:LEU:HD11	2.01	0.43
10:CY:45:ARG:HG3	10:CY:46:LYS:N	2.34	0.43
8:Cb:173:PHE:HD1	8:Cb:173:PHE:HA	1.10	0.43
10:Cd:62:CYS:HA	10:Cd:76:CYS:SG	2.59	0.43
10:Cd:93:GLU:C	10:Cd:95:GLU:N	2.73	0.43
7:Ce:88:PRO:HG2	7:Ce:89:PRO:CD	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Cf:134:ALA:O	5:Cf:138:CYS:HB2	2.18	0.43
9:Ch:82:VAL:HA	9:Ch:88:ASP:CB	2.48	0.43
9:Ch:173:ASN:HD22	9:Ch:173:ASN:C	2.27	0.43
10:Ci:180:PRO:HA	10:Ci:181:PRO:HD2	1.40	0.43
8:Cl:28:LEU:HD12	10:Cn:24:ILE:HG13	2.00	0.43
9:Cm:128:THR:HB	9:Cm:221:LEU:HD11	2.01	0.43
9:Cm:207:CYS:HB2	9:Cm:221:LEU:HB3	2.01	0.43
7:Co:9:GLU:HG3	9:Cr:119:GLY:O	2.19	0.43
7:Co:95:LEU:HD21	7:Co:143:ILE:HG23	2.00	0.43
8:Cq:66:GLU:HG3	8:Cq:78:HIS:HA	2.00	0.43
9:Cr:29:GLU:O	9:Cr:32:ARG:HB2	2.18	0.43
10:Cs:140:PRO:HA	10:Cs:171:PHE:HD2	1.83	0.43
7:Ct:9:GLU:HG3	9:Cw:119:GLY:O	2.19	0.43
5:Cu:49:ILE:C	5:Cu:51:ALA:N	2.76	0.43
8:Cv:137:ARG:HB3	8:Cv:138:LYS:O	2.18	0.43
9:Cw:28:ILE:HD13	10:Cx:24:ILE:CD1	2.47	0.43
9:Cw:162:VAL:CG1	9:Cw:163:THR:H	2.28	0.43
10:Cx:62:CYS:HA	10:Cx:76:CYS:SG	2.59	0.43
7:Cy:95:LEU:HD21	7:Cy:143:ILE:HG23	2.00	0.43
2:A1:8:GLU:HG3	2:A1:141:GLN:CD	2.43	0.43
1:A5:113:PHE:O	1:A5:114:LYS:C	2.62	0.43
3:AA:8:SER:HB3	3:AA:11:ASP:OD2	2.18	0.43
3:AF:64:GLY:HA2	3:AF:67:LYS:HB2	2.01	0.43
4:AG:120:GLN:HG2	8:CH:80:LEU:HD21	2.01	0.43
2:AI:83:MET:SD	2:AI:93:GLN:CB	3.06	0.43
3:AJ:55:ARG:O	3:AJ:55:ARG:HD2	2.19	0.43
4:AL:79:LEU:HD12	4:AL:79:LEU:HA	1.66	0.43
4:AL:142:LYS:C	4:AL:144:HIS:H	2.24	0.43
1:AM:31:ILE:O	1:AM:32:LYS:C	2.60	0.43
2:AN:75:SER:O	2:AN:78:ASP:HB3	2.18	0.43
3:AP:15:ILE:O	3:AP:17:HIS:N	2.51	0.43
3:AP:128:SER:O	3:AP:129:CYS:HB2	2.19	0.43
3:AT:19:TRP:HE1	3:AT:78:LYS:HD3	1.83	0.43
3:AU:8:SER:HB3	3:AU:11:ASP:OD2	2.18	0.43
4:AV:58:HIS:CE1	4:AV:59:PRO:HG2	2.54	0.43
3:AY:57:LYS:HD2	3:AY:65:GLU:HG3	2.01	0.43
3:AZ:15:ILE:O	3:AZ:17:HIS:N	2.51	0.43
4:Aa:101:ILE:HA	4:Aa:102:PRO:HD3	1.83	0.43
1:Ab:113:PHE:O	1:Ab:114:LYS:C	2.62	0.43
2:Ac:75:SER:O	2:Ac:78:ASP:HB3	2.18	0.43
2:Ah:8:GLU:HG3	2:Ah:141:GLN:CD	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ah:84:LEU:HD12	2:Ah:90:LEU:HD11	1.96	0.43
2:Ah:125:ARG:HG2	2:Ah:125:ARG:NH1	2.34	0.43
3:Aj:64:GLY:HA2	3:Aj:67:LYS:HB2	2.01	0.43
4:Ak:120:GLN:HG2	8:Cl:80:LEU:HD21	2.01	0.43
2:Am:8:GLU:HG3	2:Am:141:GLN:CD	2.43	0.43
3:An:19:TRP:HE1	3:An:78:LYS:HD3	1.83	0.43
3:An:55:ARG:O	3:An:55:ARG:HD2	2.19	0.43
3:Ao:150:LEU:HD23	3:Ao:150:LEU:N	2.24	0.43
4:Ap:142:LYS:C	4:Ap:144:HIS:H	2.24	0.43
4:Az:101:ILE:HA	4:Az:102:PRO:HD3	1.83	0.43
6:B1:19:TRP:C	6:B1:21:ASP:N	2.75	0.43
6:B1:19:TRP:CD2	6:B1:81:ILE:HD12	2.53	0.43
5:B5:49:ILE:C	5:B5:51:ALA:H	2.27	0.43
6:B6:96:HIS:O	6:B6:100:GLN:HG3	2.17	0.43
5:BC:84:LEU:HD12	5:BC:85:ASP:N	2.34	0.43
6:BD:128:SER:O	6:BD:129:CYS:HB2	2.19	0.43
4:BF:99:ARG:HE	4:BF:99:ARG:N	2.17	0.43
6:BI:123:LEU:HA	6:BI:126:VAL:CG2	2.48	0.43
5:BM:8:GLU:HB3	5:BM:141:GLN:HE22	1.84	0.43
5:BM:17:VAL:HG13	5:BM:135:TRP:CZ2	2.53	0.43
6:BS:72:ARG:CZ	5:CQ:96:HIS:CD2	3.02	0.43
6:BS:123:LEU:HA	6:BS:126:VAL:CG2	2.49	0.43
5:Bb:49:ILE:C	5:Bb:51:ALA:H	2.27	0.43
6:Bc:80:LEU:HD22	6:Bc:94:LEU:HD13	1.99	0.43
5:Bg:84:LEU:HD12	5:Bg:85:ASP:N	2.34	0.43
7:Bk:12:HIS:HB2	7:Bk:85:LEU:HD13	1.99	0.43
5:Bq:8:GLU:HB3	5:Bq:141:GLN:HE22	1.84	0.43
6:Br:123:LEU:HA	6:Br:126:VAL:CG2	2.48	0.43
4:Bs:92:LEU:O	4:Bs:93:GLN:C	2.61	0.43
4:Bs:130:TRP:O	4:Bs:131:ASP:C	2.61	0.43
5:Bv:69:HIS:O	5:Bv:70:SER:C	2.62	0.43
6:Bw:80:LEU:HD22	6:Bw:94:LEU:HD13	1.99	0.43
4:Bx:120:GLN:HE21	10:Cx:80:LEU:CD1	2.26	0.43
8:C0:140:PHE:H	8:C0:140:PHE:HD1	1.66	0.43
9:C1:43:PRO:CD	10:C2:38:ARG:NE	2.82	0.43
10:C2:45:ARG:HG3	10:C2:46:LYS:N	2.34	0.43
8:C5:66:GLU:HG3	8:C5:78:HIS:HA	2.00	0.43
8:C5:101:SER:HB2	8:C5:104:ILE:CG1	2.25	0.43
9:C6:23:ARG:CZ	10:CO:18:ILE:CG1	2.96	0.43
10:C7:62:CYS:HA	10:C7:76:CYS:SG	2.59	0.43
10:C7:196:ASN:HA	10:C7:197:PHE:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CD:128:THR:HB	9:CD:221:LEU:HD11	2.01	0.43
10:CJ:45:ARG:HG3	10:CJ:46:LYS:N	2.34	0.43
8:CM:147:LEU:HD12	8:CM:169:GLY:O	2.18	0.43
9:CN:128:THR:HB	9:CN:221:LEU:HD11	2.01	0.43
10:CO:140:PRO:HA	10:CO:171:PHE:HD2	1.83	0.43
5:CQ:11:VAL:CG2	5:CQ:12:THR:N	2.82	0.43
8:CR:137:ARG:HB3	8:CR:138:LYS:O	2.18	0.43
9:CS:43:PRO:CD	10:CT:38:ARG:NE	2.82	0.43
7:CU:151:LEU:HD23	7:CU:151:LEU:HA	1.75	0.43
9:CX:92:ALA:HB1	9:CX:94:ASP:OD2	2.18	0.43
10:CY:161:VAL:HG12	10:CY:162:SER:N	2.34	0.43
8:Cb:137:ARG:HB3	8:Cb:138:LYS:O	2.19	0.43
9:Cc:23:ARG:CZ	10:Cs:18:ILE:CG1	2.96	0.43
10:Cd:67:HIS:HB3	10:Cd:77:ILE:HD12	2.01	0.43
9:Ch:96:ASP:HA	9:Ch:97:PRO:HD3	1.49	0.43
9:Ch:121:LEU:HD23	9:Ch:121:LEU:HA	1.82	0.43
9:Ch:128:THR:HB	9:Ch:221:LEU:HD11	2.01	0.43
8:Cl:84:ASP:HB3	8:Cl:86:GLU:N	2.29	0.43
9:Cm:57:ILE:HD13	10:Cn:57:LEU:CB	2.48	0.43
9:Cm:170:GLY:HA3	9:Cm:180:ILE:O	2.19	0.43
8:Cq:81:LEU:H	8:Cq:81:LEU:HG	1.59	0.43
9:Cr:28:ILE:HD13	10:Cs:24:ILE:CD1	2.47	0.43
9:Cr:43:PRO:CD	10:Cs:38:ARG:NE	2.82	0.43
9:Cr:57:ILE:CG1	10:Cs:57:LEU:HD12	2.44	0.43
9:Cw:92:ALA:HB1	9:Cw:94:ASP:OD2	2.18	0.43
5:Cz:118:LEU:O	5:Cz:122:LEU:HG	2.18	0.43
3:A2:57:LYS:HD2	3:A2:65:GLU:HG3	2.01	0.43
3:A2:65:GLU:H	3:A2:65:GLU:HG2	1.65	0.43
3:A3:15:ILE:O	3:A3:17:HIS:N	2.51	0.43
4:A4:78:THR:CG2	4:A4:85:LEU:N	2.82	0.43
4:AB:24:HIS:O	4:AB:25:ASP:C	2.61	0.43
2:AD:84:LEU:HD12	2:AD:90:LEU:HD11	1.96	0.43
1:AH:31:ILE:O	1:AH:32:LYS:C	2.60	0.43
3:AJ:19:TRP:HE1	3:AJ:78:LYS:HD3	1.83	0.43
3:AJ:142:LEU:O	3:AJ:146:ILE:HG13	2.18	0.43
3:AK:18:ILE:HG21	3:AK:130:PHE:HD1	1.77	0.43
3:AK:55:ARG:O	3:AK:55:ARG:HD2	2.19	0.43
3:AK:86:ASP:O	3:AK:87:THR:C	2.60	0.43
3:AK:128:SER:O	3:AK:129:CYS:HB2	2.19	0.43
3:AO:19:TRP:O	3:AO:21:ASP:N	2.52	0.43
3:AP:112:PHE:C	3:AP:114:GLY:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AS:75:SER:O	2:AS:78:ASP:HB3	2.18	0.43
2:AX:8:GLU:HG3	2:AX:141:GLN:CD	2.43	0.43
2:Ac:83:MET:SD	2:Ac:93:GLN:CB	3.06	0.43
3:Ao:55:ARG:O	3:Ao:55:ARG:HD2	2.19	0.43
3:As:19:TRP:O	3:As:21:ASP:N	2.52	0.43
3:At:112:PHE:C	3:At:114:GLY:N	2.76	0.43
4:Au:1:LYS:CD	4:Au:131:ASP:HB3	2.49	0.43
3:Ax:60:GLU:CB	3:Ax:63:SER:HB3	2.49	0.43
3:Ay:8:SER:HB3	3:Ay:11:ASP:OD2	2.18	0.43
6:B1:128:SER:O	6:B1:129:CYS:HB2	2.19	0.43
6:B6:80:LEU:HD22	6:B6:94:LEU:HD13	1.99	0.43
5:BH:84:LEU:HD12	5:BH:85:ASP:N	2.34	0.43
6:BN:65:GLU:HA	5:CL:92:ALA:CB	2.45	0.43
6:BN:86:ASP:O	6:BN:87:THR:C	2.62	0.43
6:BN:123:LEU:HA	6:BN:126:VAL:CG2	2.48	0.43
6:BN:131:ASN:C	6:BN:131:ASN:HD22	2.25	0.43
7:BQ:95:LEU:HD21	7:BQ:143:ILE:HG23	2.01	0.43
5:BR:69:HIS:O	5:BR:70:SER:C	2.62	0.43
6:BS:80:LEU:HD22	6:BS:94:LEU:HD13	1.99	0.43
7:BV:103:GLU:HB2	7:BV:150:ARG:HG2	2.01	0.43
5:BW:11:VAL:H	5:BW:11:VAL:HG23	1.19	0.43
6:BX:19:TRP:CD2	6:BX:81:ILE:HD12	2.53	0.43
6:Bh:102:ILE:CD1	6:Bh:149:ASP:CB	2.88	0.43
4:Bj:99:ARG:HE	4:Bj:99:ARG:N	2.17	0.43
5:Bl:84:LEU:HD12	5:Bl:85:ASP:N	2.34	0.43
6:Bm:123:LEU:HA	6:Bm:126:VAL:CG2	2.48	0.43
4:Bn:120:GLN:HE21	10:Cn:80:LEU:CD1	2.26	0.43
6:Br:86:ASP:O	6:Br:87:THR:C	2.62	0.43
6:Br:131:ASN:HD22	6:Br:131:ASN:C	2.25	0.43
7:Bu:95:LEU:HD21	7:Bu:143:ILE:HG23	2.01	0.43
7:Bz:103:GLU:HB2	7:Bz:150:ARG:HG2	2.01	0.43
9:C1:74:GLN:O	9:C1:74:GLN:HG2	2.19	0.43
10:C2:69:CYS:HB3	10:C2:89:CYS:SG	2.58	0.43
10:C2:161:VAL:HG12	10:C2:162:SER:N	2.34	0.43
9:C6:138:ARG:CD	10:Ci:157:ASP:CG	2.90	0.43
10:C7:24:ILE:C	10:C7:26:THR:N	2.75	0.43
10:C7:52:HIS:O	10:C7:53:ARG:C	2.62	0.43
10:C7:161:VAL:HG12	10:C7:162:SER:N	2.34	0.43
7:CA:70:HIS:O	7:CA:71:ALA:C	2.60	0.43
9:CD:34:LYS:O	10:CE:35:LEU:CG	2.60	0.43
9:CD:38:ALA:H	10:CE:35:LEU:HD11	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CD:43:PRO:CD	10:CE:38:ARG:NE	2.82	0.43
9:CD:121:LEU:HD23	9:CD:121:LEU:HA	1.82	0.43
9:CD:194:VAL:O	9:CD:207:CYS:HA	2.19	0.43
10:CE:45:ARG:HG3	10:CE:46:LYS:N	2.34	0.43
10:CE:140:PRO:HA	10:CE:171:PHE:HD2	1.83	0.43
10:CE:157:ASP:CG	9:Cc:138:ARG:CD	2.90	0.43
8:CH:84:ASP:HB3	8:CH:86:GLU:N	2.29	0.43
10:CJ:67:HIS:HB3	10:CJ:77:ILE:HD12	2.01	0.43
10:CJ:196:ASN:HA	10:CJ:197:PHE:HA	1.83	0.43
8:CM:10:PHE:CZ	10:CO:10:HIS:CG	3.01	0.43
8:CM:66:GLU:HG3	8:CM:78:HIS:HA	2.00	0.43
8:CM:87:LYS:HB2	8:CM:87:LYS:HE2	1.66	0.43
9:CN:29:GLU:O	9:CN:32:ARG:HB2	2.18	0.43
9:CN:77:ILE:HG22	9:CN:82:VAL:HB	2.01	0.43
8:CR:140:PHE:H	8:CR:140:PHE:HD1	1.65	0.43
9:CS:28:ILE:HD13	10:CT:24:ILE:CD1	2.47	0.43
9:CS:92:ALA:HB1	9:CS:94:ASP:OD2	2.18	0.43
7:CU:95:LEU:HD21	7:CU:143:ILE:HG23	2.00	0.43
8:CW:18:ASN:C	10:CY:20:ARG:NH1	2.67	0.43
9:CX:109:ASN:HB2	9:CX:111:PHE:CZ	2.53	0.43
10:CY:31:VAL:C	10:CY:33:SER:N	2.76	0.43
10:CY:69:CYS:HB3	10:CY:89:CYS:SG	2.58	0.43
10:CY:89:CYS:HB3	10:CY:92:GLY:H	1.83	0.43
9:Cc:128:THR:HB	9:Cc:221:LEU:HD11	2.01	0.43
10:Cd:161:VAL:HG12	10:Cd:162:SER:N	2.34	0.43
8:Cg:66:GLU:HG3	8:Cg:78:HIS:HA	2.00	0.43
9:Ch:43:PRO:CD	10:Ci:38:ARG:NE	2.82	0.43
9:Ch:194:VAL:O	9:Ch:207:CYS:HA	2.19	0.43
8:Cl:21:ILE:H	10:Cn:20:ARG:NH1	2.12	0.43
8:Cl:147:LEU:HD12	8:Cl:169:GLY:O	2.18	0.43
10:Cn:45:ARG:HG3	10:Cn:46:LYS:N	2.34	0.43
10:Cn:67:HIS:HB3	10:Cn:77:ILE:HD12	2.01	0.43
8:Cq:13:LEU:HG	8:Cq:14:VAL:N	2.32	0.43
8:Cq:56:ASN:CA	8:Cq:199:GLY:CA	2.64	0.43
8:Cq:87:LYS:HB2	8:Cq:87:LYS:HE2	1.66	0.43
8:Cq:147:LEU:HD12	8:Cq:169:GLY:O	2.18	0.43
9:Cr:77:ILE:HG22	9:Cr:82:VAL:HB	2.01	0.43
9:Cr:128:THR:HB	9:Cr:221:LEU:HD11	2.01	0.43
5:Cu:11:VAL:CG2	5:Cu:12:THR:N	2.82	0.43
8:Cv:80:LEU:HD13	8:Cv:80:LEU:HA	1.85	0.43
9:Cw:43:PRO:CD	10:Cx:38:ARG:NE	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cw:128:THR:HB	9:Cw:221:LEU:HD11	2.01	0.43
10:Cx:140:PRO:HA	10:Cx:171:PHE:HD2	1.83	0.43
3:A2:19:TRP:HE1	3:A2:78:LYS:HD3	1.83	0.43
3:A3:18:ILE:CD1	3:A3:131:ASN:H	2.32	0.43
3:A3:150:LEU:HD23	3:A3:150:LEU:N	2.24	0.43
2:A6:75:SER:O	2:A6:78:ASP:HB3	2.18	0.43
4:AB:123:ARG:CD	8:CC:179:LEU:HD11	2.42	0.43
2:AI:8:GLU:HG3	2:AI:141:GLN:CD	2.43	0.43
4:AL:1:LYS:CD	4:AL:131:ASP:HB3	2.49	0.43
4:AL:81:GLN:HA	4:AL:82:PRO:HD2	1.83	0.43
4:AQ:1:LYS:CD	4:AQ:131:ASP:HB3	2.49	0.43
1:AR:113:PHE:O	1:AR:114:LYS:C	2.62	0.43
3:AT:60:GLU:CB	3:AT:63:SER:HB3	2.49	0.43
3:AY:19:TRP:HE1	3:AY:78:LYS:HD3	1.83	0.43
3:AY:65:GLU:H	3:AY:65:GLU:HG2	1.65	0.43
3:AZ:18:ILE:CD1	3:AZ:131:ASN:H	2.32	0.43
3:AZ:87:THR:HG22	7:Ba:134:LEU:HG	2.01	0.43
4:Aa:78:THR:CG2	4:Aa:85:LEU:N	2.82	0.43
4:Aa:101:ILE:H	4:Aa:101:ILE:HG12	1.64	0.43
3:Ad:142:LEU:O	3:Ad:146:ILE:HG13	2.18	0.43
3:Ae:49:SER:O	3:Ae:50:LYS:C	2.62	0.43
4:Af:24:HIS:O	4:Af:25:ASP:C	2.61	0.43
4:Af:123:ARG:CD	8:Cg:179:LEU:HD11	2.42	0.43
3:Ao:86:ASP:O	3:Ao:87:THR:C	2.60	0.43
3:Ao:128:SER:O	3:Ao:129:CYS:HB2	2.19	0.43
4:Ap:1:LYS:CD	4:Ap:131:ASP:HB3	2.49	0.43
2:Ar:75:SER:O	2:Ar:78:ASP:HB3	2.18	0.43
3:At:55:ARG:O	3:At:55:ARG:HD2	2.19	0.43
1:Av:113:PHE:O	1:Av:114:LYS:C	2.62	0.43
2:Aw:75:SER:O	2:Aw:78:ASP:HB3	2.18	0.43
3:Ax:123:LEU:O	3:Ax:127:LEU:HD23	2.18	0.43
3:Ay:55:ARG:O	3:Ay:55:ARG:HD2	2.19	0.43
5:B0:49:ILE:C	5:B0:51:ALA:H	2.27	0.43
6:B1:65:GLU:HA	5:Cz:92:ALA:CB	2.45	0.43
5:B5:84:LEU:HD12	5:B5:85:ASP:N	2.34	0.43
7:BG:12:HIS:HB2	7:BG:85:LEU:HD13	1.99	0.43
6:BI:143:VAL:O	6:BI:144:ALA:C	2.62	0.43
6:BN:15:ILE:CD1	6:BN:138:CYS:HB2	2.49	0.43
6:BN:108:THR:H	6:BN:111:TYR:HD2	1.65	0.43
6:BS:19:TRP:C	6:BS:21:ASP:N	2.75	0.43
5:BW:49:ILE:C	5:BW:51:ALA:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BZ:99:ARG:HE	4:BZ:99:ARG:N	2.17	0.43
5:Bb:69:HIS:O	5:Bb:70:SER:C	2.62	0.43
5:Bb:84:LEU:HD12	5:Bb:85:ASP:N	2.34	0.43
6:Bm:143:VAL:O	6:Bm:144:ALA:C	2.62	0.43
4:Bn:1:LYS:HB2	4:Bn:2:LYS:H	1.34	0.43
5:Bq:111:PHE:CD1	5:Bq:111:PHE:N	2.85	0.43
6:Br:15:ILE:CD1	6:Br:138:CYS:HB2	2.49	0.43
6:Br:109:LYS:HD2	6:Br:151:PRO:CG	2.29	0.43
6:Bw:143:VAL:O	6:Bw:144:ALA:C	2.62	0.43
9:C1:28:ILE:HD13	10:C2:24:ILE:CD1	2.47	0.43
9:C1:119:GLY:O	7:Cy:9:GLU:HG3	2.19	0.43
9:C1:209:ARG:HA	9:C1:209:ARG:HD2	1.78	0.43
10:C2:31:VAL:C	10:C2:33:SER:N	2.76	0.43
10:C2:89:CYS:HB3	10:C2:92:GLY:H	1.83	0.43
9:C6:128:THR:HB	9:C6:221:LEU:HD11	2.01	0.43
9:C6:157:ARG:HH11	9:C6:157:ARG:HD3	1.66	0.43
9:C6:207:CYS:HB2	9:C6:221:LEU:HB3	2.01	0.43
10:C7:31:VAL:C	10:C7:33:SER:N	2.76	0.43
10:C7:38:ARG:HB3	10:C7:38:ARG:HE	1.70	0.43
8:CC:34:GLU:HA	8:CC:37:LYS:CE	2.45	0.43
8:CC:137:ARG:HB3	8:CC:138:LYS:O	2.18	0.43
9:CD:207:CYS:HB2	9:CD:221:LEU:HB3	2.01	0.43
7:CF:9:GLU:HG3	9:CI:119:GLY:O	2.19	0.43
5:CG:118:LEU:O	5:CG:122:LEU:HG	2.18	0.43
8:CH:10:PHE:CZ	10:CJ:10:HIS:CG	3.01	0.43
8:CH:105:THR:O	8:CH:105:THR:HG22	2.18	0.43
8:CM:13:LEU:HG	8:CM:14:VAL:N	2.32	0.43
8:CM:84:ASP:HB3	8:CM:86:GLU:N	2.29	0.43
8:CM:173:PHE:HD1	8:CM:173:PHE:HA	1.10	0.43
9:CN:28:ILE:HD13	10:CO:24:ILE:CD1	2.47	0.43
10:CO:129:PHE:HE2	10:CO:144:LEU:HD13	1.84	0.43
8:CR:14:VAL:HG21	10:CT:13:ILE:HG21	0.47	0.43
8:CR:147:LEU:HD12	8:CR:169:GLY:O	2.18	0.43
8:CR:190:TYR:CD1	8:CR:209:VAL:O	2.72	0.43
9:CS:82:VAL:HA	9:CS:88:ASP:CB	2.48	0.43
9:CS:128:THR:HB	9:CS:221:LEU:HD11	2.01	0.43
9:CS:194:VAL:O	9:CS:207:CYS:HA	2.19	0.43
8:CW:56:ASN:HA	8:CW:199:GLY:CA	2.39	0.43
8:CW:140:PHE:H	8:CW:140:PHE:HD1	1.66	0.43
9:CX:74:GLN:O	9:CX:74:GLN:HG2	2.19	0.43
9:Cc:75:GLU:HG2	9:Cc:76:CYS:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cd:31:VAL:C	10:Cd:33:SER:N	2.76	0.43
10:Cd:52:HIS:O	10:Cd:53:ARG:C	2.62	0.43
7:Ce:70:HIS:O	7:Ce:71:ALA:C	2.60	0.43
8:Cg:34:GLU:HA	8:Cg:37:LYS:CE	2.45	0.43
8:Cg:137:ARG:HB3	8:Cg:138:LYS:O	2.18	0.43
10:Ci:45:ARG:HG3	10:Ci:46:LYS:N	2.34	0.43
10:Ci:140:PRO:HA	10:Ci:171:PHE:HD2	1.83	0.43
7:Cj:9:GLU:HG3	9:Cm:119:GLY:O	2.19	0.43
8:Cq:10:PHE:CZ	10:Cs:10:HIS:CG	3.01	0.43
8:Cq:84:ASP:HB3	8:Cq:86:GLU:N	2.29	0.43
10:Cs:129:PHE:HE2	10:Cs:144:LEU:HD13	1.84	0.43
7:Ct:6:CYS:HB2	7:Ct:7:CYS:H	1.51	0.43
8:Cv:147:LEU:HD12	8:Cv:169:GLY:O	2.18	0.43
8:Cv:190:TYR:CD1	8:Cv:209:VAL:O	2.72	0.43
9:Cw:82:VAL:HA	9:Cw:88:ASP:CB	2.48	0.43
9:Cw:194:VAL:O	9:Cw:207:CYS:HA	2.19	0.43
3:A3:87:THR:HG22	7:B4:134:LEU:HG	2.01	0.42
4:A4:1:LYS:CD	4:A4:131:ASP:HB3	2.49	0.42
2:A6:83:MET:SD	2:A6:93:GLN:CB	3.06	0.42
3:A7:19:TRP:HE1	3:A7:78:LYS:HD3	1.83	0.42
3:A7:65:GLU:H	3:A7:65:GLU:HG2	1.65	0.42
3:AA:19:TRP:C	3:AA:21:ASP:N	2.75	0.42
3:AA:49:SER:O	3:AA:50:LYS:C	2.62	0.42
4:AB:123:ARG:HH21	8:CC:214:LEU:HD22	1.84	0.42
3:AE:142:LEU:O	3:AE:146:ILE:HG13	2.18	0.42
3:AP:55:ARG:O	3:AP:55:ARG:HD2	2.19	0.42
4:AQ:1:LYS:HZ3	4:AQ:128:GLU:HA	1.84	0.42
3:AT:19:TRP:O	3:AT:21:ASP:N	2.52	0.42
3:Ae:19:TRP:C	3:Ae:21:ASP:N	2.75	0.42
3:Ae:55:ARG:O	3:Ae:55:ARG:HD2	2.19	0.42
4:Af:123:ARG:HH21	8:Cg:214:LEU:HD22	1.84	0.42
3:At:87:THR:HG22	7:Bu:134:LEU:HG	2.01	0.42
4:Au:73:ASP:O	4:Au:74:ILE:C	2.61	0.42
3:Ax:96:HIS:CE1	5:Bv:55:ARG:HH22	2.37	0.42
3:Ay:49:SER:O	3:Ay:50:LYS:C	2.62	0.42
3:Ay:60:GLU:CB	3:Ay:63:SER:HB3	2.49	0.42
6:B1:108:THR:H	6:B1:111:TYR:HD2	1.65	0.42
4:B3:99:ARG:HE	4:B3:99:ARG:N	2.17	0.42
7:B4:14:ILE:O	7:B4:15:VAL:C	2.62	0.42
5:B5:69:HIS:O	5:B5:70:SER:C	2.62	0.42
6:BD:72:ARG:CZ	5:CB:96:HIS:CD2	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BL:95:LEU:HD21	7:BL:143:ILE:HG23	2.01	0.42
4:BP:78:THR:HG22	7:BQ:72:LEU:HD11	2.00	0.42
6:BS:143:VAL:O	6:BS:144:ALA:C	2.62	0.42
6:BX:128:SER:O	6:BX:129:CYS:HB2	2.19	0.42
5:BL:69:HIS:O	5:BL:70:SER:C	2.62	0.42
6:Br:108:THR:H	6:Br:111:TYR:HD2	1.65	0.42
4:Bt:78:THR:HG22	7:Bu:72:LEU:HD11	2.00	0.42
7:Bz:12:HIS:O	7:Bz:13:ARG:C	2.59	0.42
8:C0:56:ASN:HA	8:C0:199:GLY:CA	2.39	0.42
8:C0:190:TYR:CD1	8:C0:209:VAL:O	2.72	0.42
9:C1:13:ARG:HH12	10:C2:14:ILE:CB	2.28	0.42
10:C2:62:CYS:HA	10:C2:76:CYS:SG	2.59	0.42
9:C6:75:GLU:HG2	9:C6:76:CYS:N	2.34	0.42
7:CA:9:GLU:HG3	9:CD:119:GLY:O	2.19	0.42
8:CC:66:GLU:HG3	8:CC:78:HIS:HA	2.00	0.42
9:CD:75:GLU:HG2	9:CD:76:CYS:N	2.34	0.42
10:CE:161:VAL:HG12	10:CE:162:SER:N	2.34	0.42
10:CJ:31:VAL:C	10:CJ:33:SER:N	2.76	0.42
10:CJ:129:PHE:HE2	10:CJ:144:LEU:HD13	1.84	0.42
10:CT:24:ILE:C	10:CT:26:THR:N	2.74	0.42
10:CT:140:PRO:HA	10:CT:171:PHE:HD2	1.83	0.42
7:CU:9:GLU:HG3	9:CX:119:GLY:O	2.19	0.42
7:CU:70:HIS:O	7:CU:71:ALA:C	2.61	0.42
8:CW:66:GLU:HG3	8:CW:78:HIS:HA	2.00	0.42
8:CW:190:TYR:CD1	8:CW:209:VAL:O	2.72	0.42
9:CX:13:ARG:HH12	10:CY:14:ILE:CB	2.28	0.42
10:CY:24:ILE:C	10:CY:26:THR:N	2.74	0.42
10:CY:62:CYS:HA	10:CY:76:CYS:SG	2.59	0.42
10:Cd:45:ARG:HG3	10:Cd:46:LYS:N	2.34	0.42
10:Cd:163:MET:HE3	10:Cd:163:MET:HB2	1.97	0.42
8:Cg:13:LEU:HG	8:Cg:14:VAL:N	2.32	0.42
9:Ch:34:LYS:O	10:Ci:35:LEU:CG	2.60	0.42
9:Ch:38:ALA:H	10:Ci:35:LEU:HD11	1.82	0.42
9:Ch:75:GLU:HG2	9:Ch:76:CYS:N	2.34	0.42
9:Ch:207:CYS:HB2	9:Ch:221:LEU:HB3	2.01	0.42
8:Cl:105:THR:O	8:Cl:105:THR:HG22	2.18	0.42
10:Cn:31:VAL:C	10:Cn:33:SER:N	2.76	0.42
8:Cq:102:LEU:HD22	8:Cq:102:LEU:HA	1.59	0.42
9:Cr:47:VAL:CG1	9:Cr:48:SER:N	2.81	0.42
9:Cr:138:ARG:HD3	9:Cr:138:ARG:HA	1.73	0.42
8:Cv:140:PHE:H	8:Cv:140:PHE:HD1	1.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cw:157:ARG:HG3	9:Cw:158:HIS:N	2.33	0.42
7:Cy:70:HIS:O	7:Cy:71:ALA:C	2.61	0.42
1:A0:45:LYS:HE3	1:A0:45:LYS:HA	2.00	0.42
3:A3:8:SER:HB3	3:A3:11:ASP:OD2	2.18	0.42
3:A3:64:GLY:HA2	3:A3:67:LYS:HB2	2.01	0.42
3:A7:142:LEU:O	3:A7:146:ILE:HG13	2.18	0.42
3:AA:55:ARG:O	3:AA:55:ARG:HD2	2.19	0.42
3:AE:69:HIS:O	3:AE:70:LEU:C	2.59	0.42
3:AE:131:ASN:C	3:AE:131:ASN:HD22	2.25	0.42
3:AP:87:THR:HG22	7:BQ:134:LEU:HG	2.01	0.42
4:AQ:8:GLU:O	4:AQ:12:VAL:HG23	2.20	0.42
4:AQ:73:ASP:O	4:AQ:74:ILE:C	2.61	0.42
3:AT:96:HIS:CE1	5:BR:55:ARG:HH22	2.37	0.42
3:AT:123:LEU:O	3:AT:127:LEU:HD23	2.18	0.42
3:AU:49:SER:O	3:AU:50:LYS:C	2.62	0.42
3:AU:55:ARG:O	3:AU:55:ARG:HD2	2.19	0.42
3:AU:112:PHE:C	3:AU:114:GLY:N	2.76	0.42
1:AW:45:LYS:HA	1:AW:45:LYS:HE3	2.00	0.42
3:AY:96:HIS:CE1	5:BW:55:ARG:HH22	2.37	0.42
3:AZ:8:SER:HB3	3:AZ:11:ASP:OD2	2.18	0.42
4:Aa:1:LYS:CD	4:Aa:131:ASP:HB3	2.49	0.42
2:Ac:125:ARG:HG2	2:Ac:125:ARG:NH1	2.34	0.42
3:Ad:19:TRP:HE1	3:Ad:78:LYS:HD3	1.83	0.42
3:Ad:65:GLU:H	3:Ad:65:GLU:HG2	1.65	0.42
1:Ag:88:PRO:HG2	1:Ag:89:PRO:CD	2.50	0.42
1:Ag:113:PHE:O	1:Ag:114:LYS:C	2.62	0.42
3:Ai:131:ASN:HD22	3:Ai:131:ASN:C	2.25	0.42
3:As:123:LEU:O	3:As:127:LEU:HD23	2.18	0.42
4:Au:8:GLU:O	4:Au:12:VAL:HG23	2.20	0.42
3:Ax:19:TRP:O	3:Ax:21:ASP:N	2.52	0.42
3:Ax:102:ILE:HD11	3:Ax:149:ASP:C	2.44	0.42
3:Ay:94:LEU:HD12	3:Ay:94:LEU:HA	1.84	0.42
3:Ay:112:PHE:C	3:Ay:114:GLY:N	2.76	0.42
5:B0:8:GLU:HB3	5:B0:141:GLN:HE22	1.84	0.42
5:B0:75:SER:O	5:B0:78:ASP:HB3	2.19	0.42
4:B2:79:LEU:HA	4:B2:85:LEU:HD22	2.01	0.42
5:B5:107:LYS:HE2	5:B5:110:PHE:CE2	2.55	0.42
4:B7:73:ASP:O	4:B7:74:ILE:C	2.62	0.42
5:BH:69:HIS:O	5:BH:70:SER:C	2.62	0.42
4:BJ:79:LEU:HA	4:BJ:85:LEU:CB	2.43	0.42
4:BK:99:ARG:HE	4:BK:99:ARG:N	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BM:111:PHE:N	5:BM:111:PHE:CD1	2.85	0.42
6:BS:60:GLU:CB	6:BS:63:SER:HB3	2.50	0.42
4:BT:79:LEU:HA	4:BT:85:LEU:CB	2.43	0.42
6:BX:65:GLU:HA	5:CV:92:ALA:CB	2.45	0.42
6:BX:143:VAL:O	6:BX:144:ALA:C	2.62	0.42
4:BY:79:LEU:HA	4:BY:85:LEU:HD22	2.01	0.42
7:Ba:14:ILE:O	7:Ba:15:VAL:C	2.62	0.42
5:Bb:107:LYS:HE2	5:Bb:110:PHE:CE2	2.55	0.42
6:Bc:86:ASP:O	6:Bc:87:THR:C	2.62	0.42
4:Bd:73:ASP:O	4:Bd:74:ILE:C	2.62	0.42
6:Bh:72:ARG:CZ	5:Cf:96:HIS:CD2	3.02	0.42
5:Bl:8:GLU:HB3	5:Bl:141:GLN:HE22	1.84	0.42
6:Bm:15:ILE:CD1	6:Bm:138:CYS:HB2	2.49	0.42
4:Bn:79:LEU:HA	4:Bn:85:LEU:CB	2.43	0.42
4:Bo:99:ARG:N	4:Bo:99:ARG:HE	2.17	0.42
7:Bu:14:ILE:O	7:Bu:15:VAL:C	2.62	0.42
6:Bw:19:TRP:C	6:Bw:21:ASP:N	2.75	0.42
6:Bw:60:GLU:CB	6:Bw:63:SER:HB3	2.50	0.42
4:Bx:79:LEU:HA	4:Bx:85:LEU:CB	2.43	0.42
8:C0:70:ARG:CB	8:C0:93:SER:HB3	2.49	0.42
10:C2:18:ILE:HG23	10:C2:19:GLU:H	1.81	0.42
10:C2:18:ILE:CG1	9:CS:23:ARG:CZ	2.96	0.42
7:C3:14:ILE:O	7:C3:15:VAL:C	2.62	0.42
8:C5:117:TRP:CB	8:C5:121:GLU:H	2.32	0.42
8:C5:212:SER:HB2	8:C5:213:SER:H	1.31	0.42
8:CC:13:LEU:HG	8:CC:14:VAL:N	2.32	0.42
8:CH:190:TYR:CD1	8:CH:209:VAL:O	2.72	0.42
9:CI:112:SER:O	9:CI:223:VAL:HA	2.20	0.42
5:CL:11:VAL:CG2	5:CL:12:THR:N	2.82	0.42
8:CM:51:LYS:HZ1	10:CO:46:LYS:CG	2.23	0.42
8:CM:137:ARG:HB3	8:CM:138:LYS:O	2.19	0.42
9:CN:47:VAL:CG1	9:CN:48:SER:N	2.81	0.42
5:CQ:134:ALA:O	5:CQ:138:CYS:HB2	2.18	0.42
8:CR:70:ARG:CB	8:CR:93:SER:HB3	2.49	0.42
9:CS:155:LEU:HD23	9:CS:155:LEU:O	2.20	0.42
9:CS:157:ARG:HG3	9:CS:158:HIS:N	2.33	0.42
9:CX:28:ILE:HD13	10:CY:24:ILE:CD1	2.47	0.42
7:CZ:14:ILE:O	7:CZ:15:VAL:C	2.62	0.42
9:Cc:207:CYS:HB2	9:Cc:221:LEU:HB3	2.01	0.42
10:Cd:38:ARG:HB3	10:Cd:38:ARG:HE	1.70	0.42
7:Ce:9:GLU:HG3	9:Ch:119:GLY:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Ci:161:VAL:HG12	10:Ci:162:SER:N	2.34	0.42
7:Cj:6:CYS:HB2	7:Cj:7:CYS:H	1.51	0.42
5:Ck:118:LEU:O	5:Ck:122:LEU:HG	2.18	0.42
8:Cl:10:PHE:CZ	10:Cn:10:HIS:CG	3.01	0.42
8:Cl:190:TYR:CD1	8:Cl:209:VAL:O	2.72	0.42
9:Cm:112:SER:O	9:Cm:223:VAL:HA	2.20	0.42
5:Cp:11:VAL:CG2	5:Cp:12:THR:N	2.82	0.42
8:Cq:42:VAL:HG21	8:Cq:46:THR:OG1	2.08	0.42
8:Cq:137:ARG:HB3	8:Cq:138:LYS:O	2.19	0.42
9:Cr:112:SER:O	9:Cr:223:VAL:HA	2.19	0.42
5:Cu:134:ALA:O	5:Cu:138:CYS:HB2	2.18	0.42
8:Cv:14:VAL:HG21	10:Cx:13:ILE:HG21	0.47	0.42
8:Cv:70:ARG:CB	8:Cv:93:SER:HB3	2.49	0.42
8:Cv:145:VAL:H	8:Cv:145:VAL:HG22	1.54	0.42
9:Cw:155:LEU:HD23	9:Cw:155:LEU:O	2.20	0.42
3:A2:96:HIS:CE1	5:B0:55:ARG:HH22	2.37	0.42
4:A4:101:ILE:HA	4:A4:102:PRO:HD3	1.83	0.42
2:A6:125:ARG:HG2	2:A6:125:ARG:NH1	2.34	0.42
3:A7:102:ILE:HD11	3:A7:149:ASP:C	2.44	0.42
3:AA:18:ILE:CD1	3:AA:131:ASN:H	2.33	0.42
1:AC:45:LYS:HA	1:AC:45:LYS:HE3	2.00	0.42
1:AC:88:PRO:HG2	1:AC:89:PRO:CD	2.50	0.42
1:AC:113:PHE:O	1:AC:114:LYS:C	2.62	0.42
3:AE:55:ARG:O	3:AE:55:ARG:HD2	2.19	0.42
3:AE:122:VAL:C	3:AE:124:PRO:HD2	2.45	0.42
4:AG:1:LYS:CD	4:AG:131:ASP:HB3	2.49	0.42
4:AG:8:GLU:O	4:AG:12:VAL:HG23	2.20	0.42
3:AK:87:THR:HG22	7:BL:134:LEU:HG	2.01	0.42
4:AL:8:GLU:O	4:AL:12:VAL:HG23	2.20	0.42
4:AL:58:HIS:CE1	4:AL:59:PRO:HG2	2.54	0.42
3:AP:94:LEU:HD12	3:AP:94:LEU:HA	1.84	0.42
3:AT:102:ILE:HD11	3:AT:149:ASP:C	2.44	0.42
3:AU:18:ILE:CD1	3:AU:131:ASN:H	2.33	0.42
3:AU:60:GLU:CB	3:AU:63:SER:HB3	2.49	0.42
3:AY:55:ARG:O	3:AY:55:ARG:HD2	2.19	0.42
3:AZ:64:GLY:HA2	3:AZ:67:LYS:HB2	2.01	0.42
3:Ae:18:ILE:CD1	3:Ae:131:ASN:H	2.33	0.42
3:Ae:64:GLY:HA2	3:Ae:67:LYS:HB2	2.01	0.42
3:Ai:122:VAL:C	3:Ai:124:PRO:HD2	2.45	0.42
3:Ai:142:LEU:O	3:Ai:146:ILE:HG13	2.18	0.42
4:Ak:8:GLU:O	4:Ak:12:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ao:18:ILE:HG21	3:Ao:130:PHE:HD1	1.77	0.42
3:Ao:87:THR:HG22	7:Bp:134:LEU:HG	2.01	0.42
4:Ap:8:GLU:O	4:Ap:12:VAL:HG23	2.20	0.42
4:Ap:58:HIS:CE1	4:Ap:59:PRO:HG2	2.54	0.42
2:Ar:83:MET:CG	2:Ar:90:LEU:HA	2.48	0.42
3:Ax:22:VAL:CG2	3:Ax:23:TRP:N	2.82	0.42
3:Ay:18:ILE:CD1	3:Ay:131:ASN:H	2.33	0.42
4:Az:1:LYS:CD	4:Az:131:ASP:HB3	2.49	0.42
4:Az:123:ARG:HH21	8:C0:214:LEU:HD22	1.84	0.42
6:B1:72:ARG:CZ	5:Cz:96:HIS:CD2	3.02	0.42
6:B1:143:VAL:O	6:B1:144:ALA:C	2.62	0.42
4:B7:79:LEU:HA	4:B7:85:LEU:HD22	2.01	0.42
5:BH:8:GLU:HB3	5:BH:141:GLN:HE22	1.84	0.42
6:BI:15:ILE:CD1	6:BI:138:CYS:HB2	2.49	0.42
4:BK:24:HIS:O	4:BK:25:ASP:C	2.61	0.42
7:BQ:14:ILE:O	7:BQ:15:VAL:C	2.62	0.42
6:BS:15:ILE:CD1	6:BS:138:CYS:HB2	2.49	0.42
7:BV:12:HIS:O	7:BV:13:ARG:C	2.59	0.42
5:BW:8:GLU:HB3	5:BW:141:GLN:HE22	1.84	0.42
5:BW:75:SER:O	5:BW:78:ASP:HB3	2.19	0.42
6:BX:72:ARG:CZ	5:CV:96:HIS:CD2	3.02	0.42
6:BX:108:THR:H	6:BX:111:TYR:HD2	1.65	0.42
4:BZ:75:ALA:HB1	4:BZ:137:ILE:HD13	2.01	0.42
5:Bb:75:SER:O	5:Bb:78:ASP:HB3	2.19	0.42
6:Bc:15:ILE:CD1	6:Bc:138:CYS:HB2	2.49	0.42
4:Bd:79:LEU:HA	4:Bd:85:LEU:HD22	2.01	0.42
4:Bo:24:HIS:O	4:Bo:25:ASP:C	2.61	0.42
7:Bp:95:LEU:HD21	7:Bp:143:ILE:HG23	2.01	0.42
5:Bq:84:LEU:HD12	5:Bq:85:ASP:N	2.34	0.42
6:Br:80:LEU:HD22	6:Br:94:LEU:HD13	1.99	0.42
6:Bw:15:ILE:CD1	6:Bw:138:CYS:HB2	2.49	0.42
8:C0:66:GLU:HG3	8:C0:78:HIS:HA	2.00	0.42
9:C1:50:ILE:HD12	10:C2:50:LEU:CD2	2.43	0.42
9:C1:112:SER:O	9:C1:223:VAL:HA	2.20	0.42
9:C1:170:GLY:HA3	9:C1:180:ILE:O	2.19	0.42
10:C2:24:ILE:C	10:C2:26:THR:N	2.74	0.42
9:C6:43:PRO:CD	10:C7:38:ARG:NE	2.82	0.42
9:C6:194:VAL:O	9:C6:207:CYS:HA	2.19	0.42
10:C7:45:ARG:HG3	10:C7:46:LYS:N	2.34	0.42
8:CC:117:TRP:CB	8:CC:121:GLU:H	2.32	0.42
9:CD:74:GLN:O	9:CD:74:GLN:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CF:6:CYS:HB2	7:CF:7:CYS:H	1.51	0.42
9:CI:50:ILE:HD12	10:CJ:50:LEU:CD2	2.43	0.42
9:CI:155:LEU:HD23	9:CI:155:LEU:O	2.20	0.42
5:CL:49:ILE:C	5:CL:51:ALA:N	2.76	0.42
9:CN:20:LEU:HD23	9:CN:20:LEU:O	2.19	0.42
9:CN:112:SER:O	9:CN:223:VAL:HA	2.19	0.42
8:CR:84:ASP:HB3	8:CR:86:GLU:N	2.29	0.42
9:CS:199:ARG:CG	9:CS:204:ARG:HB2	2.40	0.42
10:CT:129:PHE:HE2	10:CT:144:LEU:HD13	1.84	0.42
10:CT:161:VAL:HG12	10:CT:162:SER:N	2.34	0.42
8:CW:70:ARG:CB	8:CW:93:SER:HB3	2.49	0.42
9:CX:112:SER:O	9:CX:223:VAL:HA	2.20	0.42
9:CX:170:GLY:HA3	9:CX:180:ILE:O	2.19	0.42
10:CY:18:ILE:CG1	9:Cw:23:ARG:CZ	2.96	0.42
8:Cb:18:ASN:CG	10:Cd:16:LYS:HZ2	2.26	0.42
8:Cb:117:TRP:CB	8:Cb:121:GLU:H	2.32	0.42
7:Ce:32:LYS:HG2	7:Ce:75:LEU:HD12	2.00	0.42
8:Cg:117:TRP:CB	8:Cg:121:GLU:H	2.32	0.42
9:Ch:74:GLN:O	9:Ch:74:GLN:HG2	2.19	0.42
8:Cl:70:ARG:CB	8:Cl:93:SER:HB3	2.49	0.42
9:Cm:155:LEU:HD23	9:Cm:155:LEU:O	2.20	0.42
10:Cn:129:PHE:HE2	10:Cn:144:LEU:HD13	1.84	0.42
8:Cv:84:ASP:HB3	8:Cv:86:GLU:N	2.29	0.42
8:Cv:102:LEU:HD22	8:Cv:102:LEU:HA	1.59	0.42
9:Cw:199:ARG:CG	9:Cw:204:ARG:HB2	2.40	0.42
10:Cx:161:VAL:HG12	10:Cx:162:SER:N	2.34	0.42
3:A2:55:ARG:O	3:A2:55:ARG:HD2	2.19	0.42
3:A3:19:TRP:O	3:A3:21:ASP:N	2.53	0.42
3:AA:64:GLY:HA2	3:AA:67:LYS:HB2	2.01	0.42
3:AF:50:LYS:HG2	3:AF:58:ILE:HD12	2.02	0.42
3:AF:128:SER:O	3:AF:129:CYS:HB2	2.19	0.42
4:AG:58:HIS:CE1	4:AG:59:PRO:HG2	2.54	0.42
1:AH:88:PRO:HG2	1:AH:89:PRO:CD	2.50	0.42
2:AN:69:HIS:O	2:AN:70:SER:C	2.63	0.42
3:AO:22:VAL:CG2	3:AO:23:TRP:N	2.82	0.42
3:AO:123:LEU:O	3:AO:127:LEU:HD23	2.18	0.42
2:AS:8:GLU:HG3	2:AS:141:GLN:CD	2.43	0.42
3:AT:22:VAL:CG2	3:AT:23:TRP:N	2.82	0.42
3:AT:55:ARG:O	3:AT:55:ARG:HD2	2.19	0.42
3:AU:28:THR:O	3:AU:29:ASP:C	2.62	0.42
3:AU:80:LEU:HD22	3:AU:94:LEU:HD13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AU:118:ALA:O	3:AU:122:VAL:HG23	2.20	0.42
4:AV:123:ARG:HH21	8:CW:214:LEU:HD22	1.84	0.42
3:AZ:19:TRP:O	3:AZ:21:ASP:N	2.53	0.42
3:Ad:102:ILE:HD11	3:Ad:149:ASP:C	2.44	0.42
4:Af:1:LYS:CD	4:Af:131:ASP:HB3	2.49	0.42
1:Ag:45:LYS:HA	1:Ag:45:LYS:HE3	2.00	0.42
3:Ai:55:ARG:O	3:Ai:55:ARG:HD2	2.19	0.42
3:Ai:69:HIS:O	3:Ai:70:LEU:C	2.59	0.42
3:Aj:50:LYS:HG2	3:Aj:58:ILE:HD12	2.02	0.42
3:Aj:128:SER:O	3:Aj:129:CYS:HB2	2.19	0.42
4:Ak:1:LYS:CD	4:Ak:131:ASP:HB3	2.49	0.42
4:Ak:58:HIS:CE1	4:Ak:59:PRO:HG2	2.54	0.42
4:Ak:123:ARG:HD2	8:Cl:179:LEU:CD1	2.42	0.42
4:Ak:123:ARG:HH21	8:Cl:214:LEU:HD22	1.84	0.42
1:Al:88:PRO:HG2	1:Al:89:PRO:CD	2.50	0.42
3:An:19:TRP:O	3:An:21:ASP:N	2.52	0.42
1:Aq:113:PHE:O	1:Aq:114:LYS:C	2.62	0.42
2:Ar:69:HIS:O	2:Ar:70:SER:C	2.63	0.42
3:As:22:VAL:CG2	3:As:23:TRP:N	2.82	0.42
2:Aw:8:GLU:HG3	2:Aw:141:GLN:CD	2.43	0.42
3:Ay:80:LEU:HD22	3:Ay:94:LEU:HD13	2.00	0.42
3:Ay:118:ALA:O	3:Ay:122:VAL:HG23	2.20	0.42
5:B0:84:LEU:HD12	5:B0:85:ASP:N	2.34	0.42
4:B2:81:GLN:H	4:B2:81:GLN:HG3	1.48	0.42
4:B3:75:ALA:HB1	4:B3:137:ILE:HD13	2.01	0.42
5:B5:75:SER:O	5:B5:78:ASP:HB3	2.19	0.42
6:B6:15:ILE:CD1	6:B6:138:CYS:HB2	2.49	0.42
6:B6:63:SER:OG	6:B6:66:PHE:HB3	2.20	0.42
6:B6:72:ARG:CZ	5:C4:96:HIS:CD2	3.02	0.42
6:B6:86:ASP:O	6:B6:87:THR:C	2.62	0.42
4:B7:79:LEU:CA	4:B7:85:LEU:HD22	2.50	0.42
4:BJ:79:LEU:CA	4:BJ:85:LEU:HD22	2.50	0.42
4:BK:70:GLY:O	4:BK:73:ASP:HB3	2.20	0.42
5:BM:84:LEU:HD12	5:BM:85:ASP:N	2.34	0.42
4:BP:81:GLN:HA	4:BP:82:PRO:HD2	1.73	0.42
4:BU:24:HIS:O	4:BU:25:ASP:C	2.61	0.42
4:BU:84:THR:O	4:BU:85:LEU:C	2.62	0.42
7:BV:95:LEU:HD21	7:BV:143:ILE:HG23	2.01	0.42
4:BZ:84:THR:O	4:BZ:85:LEU:C	2.62	0.42
6:Bc:63:SER:OG	6:Bc:66:PHE:HB3	2.20	0.42
6:Bc:72:ARG:CZ	5:Ca:96:HIS:CD2	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bd:79:LEU:CA	4:Bd:85:LEU:HD22	2.50	0.42
4:Be:70:GLY:O	4:Be:73:ASP:HB3	2.20	0.42
6:Bh:94:LEU:HD12	6:Bh:94:LEU:HA	1.84	0.42
4:Bn:79:LEU:CA	4:Bn:85:LEU:HD22	2.50	0.42
4:Bo:70:GLY:O	4:Bo:73:ASP:HB3	2.20	0.42
4:Bs:79:LEU:HA	4:Bs:85:LEU:CB	2.43	0.42
4:By:99:ARG:HE	4:By:99:ARG:N	2.17	0.42
7:C3:9:GLU:HG3	9:C6:119:GLY:O	2.19	0.42
8:C5:109:SER:HB2	8:C5:224:ARG:NH2	2.33	0.42
10:C7:163:MET:HE3	10:C7:163:MET:HB2	1.97	0.42
7:CA:32:LYS:HG2	7:CA:75:LEU:HD12	2.00	0.42
5:CB:49:ILE:C	5:CB:51:ALA:N	2.76	0.42
5:CB:118:LEU:O	5:CB:122:LEU:HG	2.18	0.42
8:CC:28:LEU:HD12	10:CE:24:ILE:HG13	2.00	0.42
9:CD:31:LEU:HD13	10:CE:28:ILE:HA	1.90	0.42
9:CD:155:LEU:HD23	9:CD:155:LEU:O	2.20	0.42
9:CD:155:LEU:H	9:CD:155:LEU:CD2	2.33	0.42
10:CE:180:PRO:HA	10:CE:181:PRO:HD2	1.40	0.42
7:CF:14:ILE:O	7:CF:15:VAL:C	2.62	0.42
8:CH:70:ARG:CB	8:CH:93:SER:HB3	2.49	0.42
8:CH:80:LEU:HD13	8:CH:80:LEU:HA	1.85	0.42
9:CI:57:ILE:HG21	10:CJ:57:LEU:CG	2.27	0.42
9:CI:173:ASN:HD22	9:CI:173:ASN:C	2.27	0.42
7:CK:113:PHE:O	7:CK:114:LYS:C	2.60	0.42
9:CN:38:ALA:H	10:CO:35:LEU:HD11	1.82	0.42
10:CO:52:HIS:O	10:CO:53:ARG:C	2.62	0.42
9:CS:34:LYS:O	10:CT:35:LEU:CG	2.60	0.42
5:CV:79:ILE:O	5:CV:80:THR:C	2.62	0.42
8:CW:21:ILE:HG23	10:CY:20:ARG:HG2	1.37	0.42
9:CX:50:ILE:HD12	10:CY:50:LEU:CD2	2.43	0.42
9:CX:57:ILE:HG22	10:CY:57:LEU:HD13	1.81	0.42
8:Cb:190:TYR:CD1	8:Cb:209:VAL:O	2.72	0.42
8:Cb:225:TYR:CD1	8:Cb:225:TYR:N	2.85	0.42
9:Cc:43:PRO:CD	10:Cd:38:ARG:NE	2.82	0.42
9:Cc:157:ARG:HG3	9:Cc:158:HIS:N	2.33	0.42
9:Cc:194:VAL:O	9:Cc:207:CYS:HA	2.19	0.42
10:Cd:129:PHE:HE2	10:Cd:144:LEU:HD13	1.84	0.42
10:Cd:180:PRO:HA	10:Cd:181:PRO:HD2	1.40	0.42
5:Cf:49:ILE:C	5:Cf:51:ALA:N	2.76	0.42
8:Cg:12:TYR:HB3	8:Cg:13:LEU:H	1.32	0.42
8:Cg:28:LEU:HD12	10:Ci:24:ILE:HG13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ch:155:LEU:HD23	9:Ch:155:LEU:O	2.20	0.42
9:Ch:155:LEU:H	9:Ch:155:LEU:CD2	2.33	0.42
9:Cm:50:ILE:HD12	10:Cn:50:LEU:CD2	2.43	0.42
9:Cm:155:LEU:H	9:Cm:155:LEU:CD2	2.33	0.42
9:Cm:173:ASN:HD22	9:Cm:173:ASN:C	2.27	0.42
9:Cm:194:VAL:O	9:Cm:207:CYS:HA	2.19	0.42
10:Cn:62:CYS:HA	10:Cn:76:CYS:SG	2.59	0.42
5:Cp:49:ILE:C	5:Cp:51:ALA:N	2.76	0.42
8:Cq:51:LYS:HZ1	10:Cs:46:LYS:CG	2.23	0.42
10:Cs:62:CYS:HA	10:Cs:76:CYS:SG	2.59	0.42
10:Cx:31:VAL:C	10:Cx:33:SER:N	2.76	0.42
10:Cx:59:ASP:HA	10:Cx:60:PRO:HD3	1.35	0.42
10:Cx:129:PHE:HE2	10:Cx:144:LEU:HD13	1.84	0.42
5:Cz:79:ILE:O	5:Cz:80:THR:C	2.62	0.42
3:A2:102:ILE:HD11	3:A2:149:ASP:C	2.44	0.42
4:A4:123:ARG:HH21	8:C5:214:LEU:HD22	1.84	0.42
3:A7:60:GLU:CB	3:A7:63:SER:HB3	2.49	0.42
3:AA:87:THR:HG22	7:BB:134:LEU:HG	2.01	0.42
4:AB:1:LYS:CD	4:AB:131:ASP:HB3	2.49	0.42
1:AC:12:HIS:O	1:AC:13:ARG:C	2.60	0.42
3:AE:19:TRP:O	3:AE:21:ASP:N	2.52	0.42
3:AF:18:ILE:CD1	3:AF:131:ASN:H	2.33	0.42
4:AG:123:ARG:HH21	8:CH:214:LEU:HD22	1.84	0.42
2:AI:134:ALA:O	2:AI:138:CYS:HB2	2.20	0.42
3:AJ:19:TRP:O	3:AJ:21:ASP:N	2.52	0.42
3:AJ:96:HIS:CE1	5:BH:55:ARG:HH22	2.37	0.42
4:AL:24:HIS:O	4:AL:25:ASP:C	2.61	0.42
1:AM:113:PHE:O	1:AM:114:LYS:C	2.62	0.42
2:AN:10:LEU:HB3	2:AN:13:GLU:CG	2.49	0.42
2:AN:83:MET:CG	2:AN:90:LEU:HA	2.48	0.42
4:AV:1:LYS:CD	4:AV:131:ASP:HB3	2.49	0.42
3:AY:102:ILE:HD11	3:AY:149:ASP:C	2.44	0.42
4:Aa:123:ARG:HH21	8:Cb:214:LEU:HD22	1.84	0.42
3:Ad:122:VAL:C	3:Ad:124:PRO:HD2	2.45	0.42
3:Ae:87:THR:HG22	7:Bf:134:LEU:HG	2.01	0.42
3:Ai:19:TRP:O	3:Ai:21:ASP:N	2.52	0.42
3:Aj:18:ILE:CD1	3:Aj:131:ASN:H	2.33	0.42
1:Al:113:PHE:O	1:Al:114:LYS:C	2.62	0.42
2:Am:134:ALA:O	2:Am:138:CYS:HB2	2.20	0.42
3:Ao:19:TRP:O	3:Ao:21:ASP:N	2.53	0.42
2:Ar:10:LEU:HB3	2:Ar:13:GLU:CG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:As:19:TRP:HE1	3:As:78:LYS:HD3	1.83	0.42
3:As:55:ARG:O	3:As:55:ARG:HD2	2.19	0.42
3:At:118:ALA:O	3:At:122:VAL:HG23	2.20	0.42
3:Ay:28:THR:O	3:Ay:29:ASP:C	2.62	0.42
4:B3:68:VAL:O	4:B3:69:LEU:C	2.63	0.42
4:B3:84:THR:O	4:B3:85:LEU:C	2.62	0.42
4:B3:123:ARG:HD3	4:B3:123:ARG:N	2.34	0.42
4:BA:70:GLY:O	4:BA:73:ASP:HB3	2.20	0.42
7:BB:103:GLU:HB2	7:BB:150:ARG:HG2	2.01	0.42
5:BC:8:GLU:HB3	5:BC:141:GLN:HE22	1.84	0.42
5:BC:69:HIS:O	5:BC:70:SER:C	2.62	0.42
6:BD:15:ILE:CD1	6:BD:138:CYS:HB2	2.49	0.42
6:BD:86:ASP:O	6:BD:87:THR:C	2.62	0.42
4:BE:84:THR:O	4:BE:85:LEU:C	2.61	0.42
4:BK:123:ARG:HD3	4:BK:123:ARG:N	2.34	0.42
6:BN:60:GLU:CB	6:BN:63:SER:HB3	2.50	0.42
6:BN:80:LEU:HD22	6:BN:94:LEU:HD13	1.99	0.42
4:BO:120:GLN:HE21	10:CO:80:LEU:CD1	2.26	0.42
4:BT:59:PRO:HB3	7:CP:89:PRO:HB2	2.02	0.42
4:BU:99:ARG:HE	4:BU:99:ARG:N	2.17	0.42
5:BW:84:LEU:HD12	5:BW:85:ASP:N	2.34	0.42
6:BX:71:VAL:HB	5:CV:83:MET:CE	2.46	0.42
4:BY:92:LEU:O	4:BY:93:GLN:C	2.61	0.42
4:BZ:123:ARG:HD3	4:BZ:123:ARG:N	2.34	0.42
6:Bc:143:VAL:O	6:Bc:144:ALA:C	2.62	0.42
7:Bf:103:GLU:HB2	7:Bf:150:ARG:HG2	2.01	0.42
5:Bg:8:GLU:HB3	5:Bg:141:GLN:HE22	1.84	0.42
6:Bh:15:ILE:CD1	6:Bh:138:CYS:HB2	2.49	0.42
6:Bh:86:ASP:O	6:Bh:87:THR:C	2.62	0.42
4:Bi:59:PRO:HB3	7:Ce:89:PRO:HB2	2.02	0.42
6:Bm:128:SER:O	6:Bm:129:CYS:HB2	2.19	0.42
4:Bo:123:ARG:HD3	4:Bo:123:ARG:N	2.34	0.42
6:Br:60:GLU:CB	6:Br:63:SER:HB3	2.50	0.42
5:Bv:75:SER:O	5:Bv:78:ASP:HB3	2.19	0.42
5:Bv:84:LEU:HD12	5:Bv:85:ASP:N	2.34	0.42
4:By:24:HIS:O	4:By:25:ASP:C	2.61	0.42
7:Bz:95:LEU:HD21	7:Bz:143:ILE:HG23	2.01	0.42
10:C2:67:HIS:HB3	10:C2:77:ILE:HD12	2.01	0.42
8:C5:18:ASN:CG	10:C7:16:LYS:HZ2	2.26	0.42
8:C5:131:THR:HG23	8:C5:150:THR:OG1	2.20	0.42
8:C5:190:TYR:CD1	8:C5:209:VAL:O	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C5:225:TYR:CD1	8:C5:225:TYR:N	2.85	0.42
9:C6:157:ARG:HG3	9:C6:158:HIS:N	2.33	0.42
10:CE:62:CYS:HA	10:CE:76:CYS:SG	2.59	0.42
7:CF:12:HIS:O	7:CF:13:ARG:C	2.58	0.42
9:CI:77:ILE:HG22	9:CI:82:VAL:HB	2.01	0.42
9:CI:155:LEU:H	9:CI:155:LEU:CD2	2.33	0.42
9:CI:194:VAL:O	9:CI:207:CYS:HA	2.19	0.42
10:CJ:62:CYS:HA	10:CJ:76:CYS:SG	2.59	0.42
8:CM:81:LEU:H	8:CM:81:LEU:HG	1.59	0.42
8:CM:131:THR:HG23	8:CM:150:THR:OG1	2.20	0.42
10:CO:48:GLY:O	10:CO:51:ARG:HB3	2.20	0.42
10:CO:62:CYS:HA	10:CO:76:CYS:SG	2.59	0.42
8:CR:28:LEU:C	8:CR:28:LEU:CD2	2.93	0.42
8:CW:225:TYR:CD1	8:CW:225:TYR:N	2.85	0.42
9:CX:151:VAL:HB	9:CX:166:PHE:CE1	2.55	0.42
10:CY:18:ILE:HG23	10:CY:19:GLU:H	1.81	0.42
8:Cb:109:SER:HB2	8:Cb:224:ARG:NH2	2.33	0.42
9:Cc:20:LEU:HD23	9:Cc:20:LEU:O	2.19	0.42
9:Cc:157:ARG:HH11	9:Cc:157:ARG:HD3	1.66	0.42
5:Cf:118:LEU:O	5:Cf:122:LEU:HG	2.18	0.42
8:Cg:70:ARG:CB	8:Cg:93:SER:HB3	2.49	0.42
9:Ch:31:LEU:HD13	10:Ci:28:ILE:HA	1.90	0.42
7:Cj:151:LEU:HD23	7:Cj:151:LEU:HA	1.75	0.42
9:Cm:57:ILE:HG21	10:Cn:57:LEU:CG	2.27	0.42
7:Co:113:PHE:O	7:Co:114:LYS:C	2.60	0.42
8:Cq:131:THR:HG23	8:Cq:150:THR:OG1	2.20	0.42
8:Cq:190:TYR:CD1	8:Cq:209:VAL:O	2.72	0.42
9:Cr:20:LEU:HD23	9:Cr:20:LEU:O	2.19	0.42
10:Cs:48:GLY:O	10:Cs:51:ARG:HB3	2.20	0.42
10:Cs:52:HIS:O	10:Cs:53:ARG:C	2.62	0.42
7:Ct:14:ILE:O	7:Ct:15:VAL:C	2.62	0.42
8:Cv:28:LEU:C	8:Cv:28:LEU:CD2	2.93	0.42
5:Cz:49:ILE:C	5:Cz:51:ALA:N	2.76	0.42
3:A2:94:LEU:HD12	3:A2:94:LEU:HA	1.84	0.42
3:A3:28:THR:O	3:A3:29:ASP:C	2.62	0.42
4:A4:101:ILE:H	4:A4:101:ILE:HG12	1.64	0.42
1:A5:45:LYS:HA	1:A5:45:LYS:HE3	2.00	0.42
1:A5:88:PRO:HG2	1:A5:89:PRO:CD	2.50	0.42
2:A6:134:ALA:O	2:A6:138:CYS:HB2	2.20	0.42
3:A7:122:VAL:C	3:A7:124:PRO:HD2	2.45	0.42
3:AE:22:VAL:CG2	3:AE:23:TRP:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:19:TRP:O	3:AF:21:ASP:N	2.53	0.42
3:AF:55:ARG:O	3:AF:55:ARG:HD2	2.19	0.42
3:AF:129:CYS:SG	8:CH:212:SER:HA	2.60	0.42
1:AH:113:PHE:O	1:AH:114:LYS:C	2.62	0.42
2:AI:49:ILE:C	2:AI:51:ALA:H	2.26	0.42
3:AK:18:ILE:CD1	3:AK:131:ASN:H	2.32	0.42
3:AK:19:TRP:O	3:AK:21:ASP:N	2.53	0.42
3:AK:50:LYS:HG2	3:AK:58:ILE:HD12	2.02	0.42
3:AO:55:ARG:O	3:AO:55:ARG:HD2	2.19	0.42
3:AP:18:ILE:CD1	3:AP:131:ASN:H	2.33	0.42
3:AP:23:TRP:CH2	3:AP:74:ALA:HB1	2.55	0.42
3:AP:118:ALA:O	3:AP:122:VAL:HG23	2.20	0.42
2:AS:79:ILE:O	2:AS:83:MET:HB2	2.20	0.42
2:AS:134:ALA:O	2:AS:138:CYS:HB2	2.20	0.42
4:AV:84:THR:O	4:AV:85:LEU:C	2.63	0.42
2:AX:10:LEU:HB3	2:AX:13:GLU:CG	2.49	0.42
3:AZ:28:THR:O	3:AZ:29:ASP:C	2.62	0.42
1:Ab:45:LYS:HA	1:Ab:45:LYS:HE3	2.00	0.42
2:Ac:134:ALA:O	2:Ac:138:CYS:HB2	2.20	0.42
3:Ad:60:GLU:CB	3:Ad:63:SER:HB3	2.49	0.42
3:Aj:19:TRP:O	3:Aj:21:ASP:N	2.53	0.42
3:Aj:129:CYS:SG	8:Cl:212:SER:HA	2.60	0.42
2:Am:49:ILE:C	2:Am:51:ALA:H	2.26	0.42
3:An:96:HIS:CE1	5:Bl:55:ARG:HH22	2.37	0.42
3:Ao:18:ILE:CD1	3:Ao:131:ASN:H	2.32	0.42
4:Ap:81:GLN:HA	4:Ap:82:PRO:HD2	1.83	0.42
3:At:18:ILE:CD1	3:At:131:ASN:H	2.33	0.42
3:At:23:TRP:CH2	3:At:74:ALA:HB1	2.55	0.42
3:At:60:GLU:CB	3:At:63:SER:HB3	2.49	0.42
2:Aw:79:ILE:O	2:Aw:83:MET:HB2	2.20	0.42
3:Ax:55:ARG:O	3:Ax:55:ARG:HD2	2.19	0.42
4:Az:84:THR:O	4:Az:85:LEU:C	2.63	0.42
5:B0:69:HIS:O	5:B0:70:SER:C	2.62	0.42
6:B1:71:VAL:HB	5:Cz:83:MET:CE	2.46	0.42
4:B2:84:THR:O	4:B2:85:LEU:C	2.61	0.42
5:B5:134:ALA:O	5:B5:138:CYS:HB2	2.20	0.42
6:B6:143:VAL:O	6:B6:144:ALA:C	2.62	0.42
5:BC:31:ARG:O	5:BC:32:VAL:C	2.63	0.42
4:BE:59:PRO:HB3	7:CA:89:PRO:HB2	2.02	0.42
4:BF:84:THR:O	4:BF:85:LEU:C	2.62	0.42
5:BH:107:LYS:HE2	5:BH:110:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BI:24:SER:HB3	6:BI:25:SER:H	1.64	0.42
5:BM:75:SER:O	5:BM:78:ASP:HB3	2.19	0.42
6:BN:128:SER:O	6:BN:129:CYS:HB2	2.19	0.42
4:BO:79:LEU:HA	4:BO:85:LEU:CB	2.43	0.42
5:BR:75:SER:O	5:BR:78:ASP:HB3	2.19	0.42
5:BR:84:LEU:HD12	5:BR:85:ASP:N	2.34	0.42
4:BU:70:GLY:O	4:BU:73:ASP:HB3	2.20	0.42
7:BV:3:HIS:HB3	7:BV:4:GLU:H	1.63	0.42
6:BX:60:GLU:CB	6:BX:63:SER:HB3	2.50	0.42
4:BZ:68:VAL:O	4:BZ:69:LEU:C	2.63	0.42
5:Bb:111:PHE:N	5:Bb:111:PHE:CD1	2.85	0.42
5:Bb:134:ALA:O	5:Bb:138:CYS:HB2	2.20	0.42
5:Bg:31:ARG:O	5:Bg:32:VAL:C	2.63	0.42
5:Bg:69:HIS:O	5:Bg:70:SER:C	2.62	0.42
5:Bl:107:LYS:HE2	5:Bl:110:PHE:CE2	2.54	0.42
6:Bw:86:ASP:O	6:Bw:87:THR:C	2.62	0.42
4:Bx:59:PRO:HB3	7:Ct:89:PRO:HB2	2.02	0.42
4:Bx:79:LEU:CA	4:Bx:85:LEU:HD22	2.50	0.42
4:By:70:GLY:O	4:By:73:ASP:HB3	2.20	0.42
4:By:84:THR:O	4:By:85:LEU:C	2.62	0.42
8:C0:131:THR:HG23	8:C0:150:THR:OG1	2.20	0.42
9:C1:151:VAL:HB	9:C1:166:PHE:CE1	2.55	0.42
9:C1:155:LEU:HD23	9:C1:155:LEU:O	2.20	0.42
10:C2:129:PHE:HE2	10:C2:144:LEU:HD13	1.84	0.42
5:C4:79:ILE:O	5:C4:80:THR:C	2.63	0.42
8:C5:34:GLU:HA	8:C5:37:LYS:CD	2.50	0.42
9:C6:34:LYS:C	10:C7:35:LEU:HG	2.45	0.42
10:C7:129:PHE:HE2	10:C7:144:LEU:HD13	1.84	0.42
8:CC:70:ARG:CB	8:CC:93:SER:HB3	2.49	0.42
9:CD:151:VAL:HB	9:CD:166:PHE:CE1	2.55	0.42
10:CE:129:PHE:HE2	10:CE:144:LEU:HD13	1.84	0.42
8:CH:137:ARG:HB3	8:CH:138:LYS:O	2.19	0.42
9:CI:151:VAL:HB	9:CI:166:PHE:CE1	2.55	0.42
10:CJ:52:HIS:O	10:CJ:53:ARG:C	2.62	0.42
8:CM:70:ARG:CB	8:CM:93:SER:HB3	2.49	0.42
8:CM:190:TYR:CD1	8:CM:209:VAL:O	2.72	0.42
9:CN:194:VAL:O	9:CN:207:CYS:HA	2.19	0.42
7:CP:14:ILE:O	7:CP:15:VAL:C	2.62	0.42
9:CS:34:LYS:C	10:CT:35:LEU:HG	2.45	0.42
9:CS:75:GLU:HG2	9:CS:76:CYS:N	2.34	0.42
5:CV:49:ILE:C	5:CV:51:ALA:N	2.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CW:131:THR:HG23	8:CW:150:THR:OG1	2.20	0.42
9:CX:194:VAL:O	9:CX:207:CYS:HA	2.19	0.42
7:CZ:9:GLU:HG3	9:Cc:119:GLY:O	2.19	0.42
5:Ca:8:GLU:HB2	5:Ca:9:CYS:H	1.51	0.42
5:Ca:79:ILE:O	5:Ca:80:THR:C	2.63	0.42
8:Cb:34:GLU:HA	8:Cb:37:LYS:CD	2.50	0.42
8:Cb:131:THR:HG23	8:Cb:150:THR:OG1	2.20	0.42
9:Cc:34:LYS:C	10:Cd:35:LEU:HG	2.45	0.42
9:Ch:20:LEU:HD23	9:Ch:20:LEU:O	2.19	0.42
9:Ch:151:VAL:HB	9:Ch:166:PHE:CE1	2.55	0.42
10:Ci:62:CYS:HA	10:Ci:76:CYS:SG	2.59	0.42
7:Cj:12:HIS:O	7:Cj:13:ARG:C	2.58	0.42
7:Cj:95:LEU:HD21	7:Cj:143:ILE:HG23	2.00	0.42
8:Cl:21:ILE:HG23	10:Cn:20:ARG:HG2	1.37	0.42
8:Cl:34:GLU:HA	8:Cl:37:LYS:CD	2.50	0.42
8:Cl:103:ASN:O	8:Cl:106:HIS:HB2	2.20	0.42
8:Cl:137:ARG:HB3	8:Cl:138:LYS:O	2.19	0.42
8:Cl:212:SER:HB2	8:Cl:213:SER:H	1.31	0.42
9:Cm:20:LEU:HD23	9:Cm:20:LEU:O	2.19	0.42
9:Cm:77:ILE:HG22	9:Cm:82:VAL:HB	2.01	0.42
9:Cm:151:VAL:HB	9:Cm:166:PHE:CE1	2.55	0.42
10:Cn:196:ASN:HA	10:Cn:197:PHE:HA	1.83	0.42
9:Cr:38:ALA:H	10:Cs:35:LEU:HD11	1.82	0.42
9:Cw:34:LYS:C	10:Cx:35:LEU:HG	2.45	0.42
9:Cw:75:GLU:HG2	9:Cw:76:CYS:N	2.34	0.42
2:A1:10:LEU:HB3	2:A1:13:GLU:CG	2.49	0.42
2:A1:117:HIS:O	2:A1:118:LEU:C	2.63	0.42
2:A1:134:ALA:O	2:A1:138:CYS:HB2	2.20	0.42
4:AB:79:LEU:HD12	4:AB:79:LEU:HA	1.66	0.42
3:AE:96:HIS:CE1	5:BC:55:ARG:HH22	2.37	0.42
2:AI:69:HIS:O	2:AI:70:SER:C	2.63	0.42
3:AK:60:GLU:CB	3:AK:63:SER:HB3	2.49	0.42
4:AL:1:LYS:HZ3	4:AL:128:GLU:HA	1.84	0.42
4:AL:79:LEU:CD1	4:AL:85:LEU:CD2	2.98	0.42
3:AO:19:TRP:HE1	3:AO:78:LYS:HD3	1.83	0.42
3:AP:60:GLU:CB	3:AP:63:SER:HB3	2.49	0.42
3:AU:112:PHE:O	3:AU:115:ILE:HG22	2.20	0.42
2:AX:117:HIS:O	2:AX:118:LEU:C	2.63	0.42
2:AX:134:ALA:O	2:AX:138:CYS:HB2	2.20	0.42
1:Ab:88:PRO:HG2	1:Ab:89:PRO:CD	2.50	0.42
3:Ad:19:TRP:O	3:Ad:21:ASP:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Ad:55:ARG:O	3:Ad:55:ARG:HD2	2.19	0.42
4:Af:58:HIS:CE1	4:Af:59:PRO:HG2	2.54	0.42
1:Ag:12:HIS:O	1:Ag:13:ARG:C	2.60	0.42
3:Ai:22:VAL:CG2	3:Ai:23:TRP:N	2.82	0.42
3:Aj:23:TRP:HA	3:Aj:23:TRP:HE3	1.82	0.42
3:An:122:VAL:C	3:An:124:PRO:HD2	2.45	0.42
3:Ao:50:LYS:HG2	3:Ao:58:ILE:HD12	2.02	0.42
4:Ap:24:HIS:O	4:Ap:25:ASP:C	2.61	0.42
4:Ap:79:LEU:CD1	4:Ap:85:LEU:CD2	2.98	0.42
2:Aw:134:ALA:O	2:Aw:138:CYS:HB2	2.20	0.42
3:Ay:112:PHE:O	3:Ay:115:ILE:HG22	2.20	0.42
5:B0:11:VAL:H	5:B0:11:VAL:HG23	1.19	0.42
6:B1:15:ILE:CD1	6:B1:138:CYS:HB2	2.49	0.42
6:B1:19:TRP:O	6:B1:21:ASP:N	2.53	0.42
6:B1:60:GLU:CB	6:B1:63:SER:HB3	2.50	0.42
4:B2:92:LEU:O	4:B2:93:GLN:C	2.61	0.42
5:B5:111:PHE:N	5:B5:111:PHE:CD1	2.85	0.42
6:B6:19:TRP:O	6:B6:21:ASP:N	2.53	0.42
4:BA:75:ALA:HB1	4:BA:137:ILE:HD13	2.01	0.42
4:BA:81:GLN:HA	4:BA:82:PRO:HD2	1.73	0.42
7:BG:103:GLU:HB2	7:BG:150:ARG:HG2	2.01	0.42
6:BI:128:SER:O	6:BI:129:CYS:HB2	2.19	0.42
4:BK:68:VAL:O	4:BK:69:LEU:C	2.63	0.42
4:BK:81:GLN:HA	4:BK:82:PRO:HD2	1.74	0.42
6:BN:78:LYS:HZ3	5:CL:31:ARG:HH22	1.68	0.42
4:BP:24:HIS:O	4:BP:25:ASP:C	2.61	0.42
6:BS:86:ASP:O	6:BS:87:THR:C	2.62	0.42
6:BS:128:SER:O	6:BS:129:CYS:HB2	2.19	0.42
4:BT:79:LEU:CA	4:BT:85:LEU:HD22	2.50	0.42
6:BX:19:TRP:O	6:BX:21:ASP:N	2.53	0.42
4:BY:84:THR:O	4:BY:85:LEU:C	2.61	0.42
6:Bc:19:TRP:O	6:Bc:21:ASP:N	2.53	0.42
4:Be:75:ALA:HB1	4:Be:137:ILE:HD13	2.01	0.42
4:Be:81:GLN:HA	4:Be:82:PRO:HD2	1.73	0.42
4:Bj:84:THR:O	4:Bj:85:LEU:C	2.62	0.42
7:Bk:103:GLU:HB2	7:Bk:150:ARG:HG2	2.01	0.42
4:Bo:68:VAL:O	4:Bo:69:LEU:C	2.63	0.42
4:Bo:81:GLN:HA	4:Bo:82:PRO:HD2	1.74	0.42
5:Bq:75:SER:O	5:Bq:78:ASP:HB3	2.19	0.42
4:Bs:120:GLN:HE21	10:Cs:80:LEU:CD1	2.26	0.42
4:Bt:81:GLN:HA	4:Bt:82:PRO:HD2	1.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bt:123:ARG:HD3	4:Bt:123:ARG:N	2.34	0.42
8:C0:176:ARG:HB3	8:C0:176:ARG:HE	1.54	0.42
8:C0:225:TYR:CD1	8:C0:225:TYR:N	2.85	0.42
9:C1:194:VAL:O	9:C1:207:CYS:HA	2.19	0.42
9:C6:20:LEU:HD23	9:C6:20:LEU:O	2.19	0.42
10:C7:48:GLY:O	10:C7:51:ARG:HB3	2.20	0.42
9:CD:31:LEU:CD1	10:CE:28:ILE:C	2.89	0.42
7:CF:95:LEU:HD21	7:CF:143:ILE:HG23	2.00	0.42
8:CH:34:GLU:HA	8:CH:37:LYS:CD	2.50	0.42
8:CH:103:ASN:O	8:CH:106:HIS:HB2	2.20	0.42
9:CI:20:LEU:HD23	9:CI:20:LEU:O	2.19	0.42
10:CJ:197:PHE:HB3	10:CJ:199:ARG:CB	2.37	0.42
9:CN:180:ILE:HG22	9:CN:182:LEU:HD13	2.02	0.42
10:CO:31:VAL:C	10:CO:33:SER:N	2.76	0.42
7:CP:6:CYS:HB2	7:CP:7:CYS:H	1.51	0.42
8:CR:145:VAL:H	8:CR:145:VAL:HG22	1.54	0.42
9:CS:13:ARG:HH12	10:CT:14:ILE:CB	2.28	0.42
9:CS:170:GLY:HA3	9:CS:180:ILE:O	2.18	0.42
8:CW:221:ASN:HB3	9:CX:74:GLN:NE2	2.35	0.42
9:CX:155:LEU:HD23	9:CX:155:LEU:O	2.20	0.42
10:CY:67:HIS:HB3	10:CY:77:ILE:HD12	2.01	0.42
10:CY:129:PHE:HE2	10:CY:144:LEU:HD13	1.84	0.42
10:Cd:48:GLY:O	10:Cd:51:ARG:HB3	2.20	0.42
8:Cg:190:TYR:CD1	8:Cg:209:VAL:O	2.72	0.42
10:Ci:129:PHE:HE2	10:Ci:144:LEU:HD13	1.84	0.42
8:Cl:35:TYR:OH	10:Cn:34:LEU:HB3	2.15	0.42
10:Cn:52:HIS:O	10:Cn:53:ARG:C	2.62	0.42
8:Cq:70:ARG:CB	8:Cq:93:SER:HB3	2.49	0.42
9:Cr:74:GLN:O	9:Cr:74:GLN:HG2	2.19	0.42
9:Cr:155:LEU:H	9:Cr:155:LEU:CD2	2.33	0.42
9:Cr:180:ILE:HG22	9:Cr:182:LEU:HD13	2.02	0.42
9:Cr:194:VAL:O	9:Cr:207:CYS:HA	2.19	0.42
10:Cs:31:VAL:C	10:Cs:33:SER:N	2.76	0.42
10:Cs:94:ASP:OD1	10:Cs:94:ASP:N	2.53	0.42
9:Cw:13:ARG:HH12	10:Cx:14:ILE:CB	2.28	0.42
9:Cw:112:SER:O	9:Cw:223:VAL:HA	2.20	0.42
3:A3:118:ALA:O	3:A3:122:VAL:HG23	2.20	0.42
3:A3:122:VAL:C	3:A3:124:PRO:HD2	2.45	0.42
1:A5:14:ILE:O	1:A5:15:VAL:C	2.60	0.42
3:A7:19:TRP:O	3:A7:21:ASP:N	2.52	0.42
3:A7:55:ARG:O	3:A7:55:ARG:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AB:58:HIS:CE1	4:AB:59:PRO:HG2	2.54	0.42
1:AC:127:VAL:HG23	1:AC:128:LEU:HG	2.02	0.42
3:AE:50:LYS:HG2	3:AE:58:ILE:HD12	2.02	0.42
3:AF:122:VAL:C	3:AF:124:PRO:HD2	2.45	0.42
4:AG:123:ARG:HD2	8:CH:179:LEU:CD1	2.42	0.42
4:AG:123:ARG:CD	8:CH:179:LEU:HD11	2.42	0.42
1:AH:7:CYS:SG	1:AH:139:CYS:HA	2.60	0.42
3:AJ:60:GLU:CB	3:AJ:63:SER:HB3	2.49	0.42
3:AJ:102:ILE:HD11	3:AJ:149:ASP:C	2.44	0.42
3:AJ:122:VAL:C	3:AJ:124:PRO:HD2	2.45	0.42
3:AK:49:SER:O	3:AK:50:LYS:C	2.62	0.42
1:AR:127:VAL:HG23	1:AR:128:LEU:HG	2.02	0.42
3:AY:19:TRP:O	3:AY:21:ASP:N	2.52	0.42
3:AY:122:VAL:C	3:AY:124:PRO:HD2	2.45	0.42
3:AZ:118:ALA:O	3:AZ:122:VAL:HG23	2.20	0.42
3:AZ:122:VAL:C	3:AZ:124:PRO:HD2	2.45	0.42
1:Ag:127:VAL:HG23	1:Ag:128:LEU:HG	2.02	0.42
3:Ai:96:HIS:CE1	5:Bg:55:ARG:HH22	2.37	0.42
3:Aj:55:ARG:O	3:Aj:55:ARG:HD2	2.19	0.42
3:Aj:122:VAL:C	3:Aj:124:PRO:HD2	2.45	0.42
1:Al:7:CYS:SG	1:Al:139:CYS:HA	2.60	0.42
2:Am:69:HIS:O	2:Am:70:SER:C	2.63	0.42
3:An:102:ILE:HD11	3:An:149:ASP:C	2.44	0.42
3:Ao:60:GLU:CB	3:Ao:63:SER:HB3	2.49	0.42
2:Ar:17:VAL:HG13	2:Ar:135:TRP:CZ2	2.55	0.42
3:At:28:THR:O	3:At:29:ASP:C	2.62	0.42
3:At:94:LEU:HD12	3:At:94:LEU:HA	1.84	0.42
1:Av:127:VAL:HG23	1:Av:128:LEU:HG	2.02	0.42
6:BD:143:VAL:O	6:BD:144:ALA:C	2.62	0.42
6:BI:123:LEU:O	6:BI:127:LEU:HD23	2.20	0.42
4:BP:123:ARG:HD3	4:BP:123:ARG:N	2.34	0.42
7:BQ:109:GLN:O	7:BQ:112:HIS:HB2	2.20	0.42
4:BU:75:ALA:HB1	4:BU:137:ILE:HD13	2.01	0.42
7:BV:109:GLN:O	7:BV:112:HIS:HB2	2.20	0.42
5:BW:69:HIS:O	5:BW:70:SER:C	2.62	0.42
6:BX:15:ILE:CD1	6:BX:138:CYS:HB2	2.49	0.42
4:BY:81:GLN:H	4:BY:81:GLN:HG3	1.48	0.42
4:BZ:70:GLY:O	4:BZ:73:ASP:HB3	2.20	0.42
6:Bh:60:GLU:CB	6:Bh:63:SER:HB3	2.50	0.42
6:Bm:123:LEU:O	6:Bm:127:LEU:HD23	2.20	0.42
6:Br:128:SER:O	6:Br:129:CYS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bt:24:HIS:O	4:Bt:25:ASP:C	2.61	0.42
6:Bw:23:TRP:HB3	6:Bw:24:SER:H	1.75	0.42
8:C0:117:TRP:CB	8:C0:121:GLU:H	2.32	0.42
8:C0:221:ASN:HB3	9:C1:74:GLN:NE2	2.35	0.42
9:C1:19:PHE:C	9:C1:22:ILE:HG22	2.45	0.42
9:C1:157:ARG:HH11	9:C1:157:ARG:HD3	1.66	0.42
5:C4:11:VAL:CG2	5:C4:12:THR:N	2.82	0.42
9:C6:180:ILE:HG22	9:C6:182:LEU:HD13	2.02	0.42
10:C7:198:ASP:HB3	10:C7:220:ARG:HE	1.83	0.42
8:CC:103:ASN:O	8:CC:106:HIS:HB2	2.20	0.42
9:CD:20:LEU:HD23	9:CD:20:LEU:O	2.19	0.42
9:CD:75:GLU:OE2	9:CD:77:ILE:HD11	2.20	0.42
10:CJ:89:CYS:HB3	10:CJ:92:GLY:H	1.83	0.42
8:CM:101:SER:HB2	8:CM:104:ILE:CG1	2.25	0.42
8:CM:102:LEU:HD22	8:CM:102:LEU:HA	1.59	0.42
9:CN:74:GLN:O	9:CN:74:GLN:HG2	2.19	0.42
9:CN:155:LEU:H	9:CN:155:LEU:CD2	2.33	0.42
10:CO:67:HIS:HB3	10:CO:77:ILE:HD12	2.01	0.42
10:CO:94:ASP:OD1	10:CO:94:ASP:N	2.53	0.42
10:CO:198:ASP:HB3	10:CO:220:ARG:HE	1.83	0.42
9:CS:112:SER:O	9:CS:223:VAL:HA	2.20	0.42
10:CT:48:GLY:O	10:CT:51:ARG:HB3	2.20	0.42
9:CX:19:PHE:C	9:CX:22:ILE:HG22	2.45	0.42
9:CX:75:GLU:HG2	9:CX:76:CYS:N	2.34	0.42
9:CX:155:LEU:H	9:CX:155:LEU:CD2	2.33	0.42
5:Ca:12:THR:C	5:Ca:14:SER:N	2.78	0.42
8:Cb:14:VAL:HG21	10:Cd:13:ILE:HG21	0.47	0.42
8:Cg:81:LEU:H	8:Cg:81:LEU:HG	1.59	0.42
8:Cg:103:ASN:O	8:Cg:106:HIS:HB2	2.20	0.42
8:Cg:114:LEU:HD22	9:Ch:73:GLU:HB3	2.02	0.42
9:Ch:75:GLU:OE2	9:Ch:77:ILE:HD11	2.20	0.42
10:Cn:89:CYS:HB3	10:Cn:92:GLY:H	1.83	0.42
10:Cs:67:HIS:HB3	10:Cs:77:ILE:HD12	2.01	0.42
10:Cs:163:MET:HE3	10:Cs:163:MET:HB2	1.97	0.42
8:Cv:34:GLU:HA	8:Cv:37:LYS:CD	2.50	0.42
9:Cw:34:LYS:O	10:Cx:35:LEU:CG	2.60	0.42
9:Cw:170:GLY:HA3	9:Cw:180:ILE:O	2.18	0.42
10:Cx:38:ARG:HB3	10:Cx:38:ARG:HE	1.69	0.42
10:Cx:48:GLY:O	10:Cx:51:ARG:HB3	2.20	0.42
5:Cz:111:PHE:H	5:Cz:111:PHE:HD1	1.68	0.42
3:A2:19:TRP:O	3:A2:21:ASP:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A2:122:VAL:C	3:A2:124:PRO:HD2	2.45	0.42
4:A4:8:GLU:O	4:A4:12:VAL:HG23	2.20	0.42
4:A4:58:HIS:CE1	4:A4:59:PRO:HG2	2.54	0.42
4:A4:84:THR:O	4:A4:85:LEU:C	2.63	0.42
3:A7:22:VAL:CG2	3:A7:23:TRP:N	2.82	0.42
3:AA:28:THR:O	3:AA:29:ASP:C	2.62	0.42
3:AF:23:TRP:HA	3:AF:23:TRP:HE3	1.82	0.42
3:AF:23:TRP:CH2	3:AF:74:ALA:HB1	2.55	0.42
3:AF:136:ASN:HD22	3:AF:136:ASN:HA	1.56	0.42
2:AI:10:LEU:HB3	2:AI:13:GLU:CG	2.49	0.42
2:AI:57:ARG:HG2	2:AI:57:ARG:NH1	2.35	0.42
3:AJ:102:ILE:CG1	3:AJ:150:LEU:HA	2.28	0.42
2:AN:17:VAL:HG13	2:AN:135:TRP:CZ2	2.55	0.42
3:AO:63:SER:OG	3:AO:66:PHE:HB3	2.20	0.42
3:AP:28:THR:O	3:AP:29:ASP:C	2.62	0.42
3:AP:97:LEU:HD23	3:AP:146:ILE:CD1	2.50	0.42
3:AP:129:CYS:SG	8:CR:212:SER:HA	2.60	0.42
4:AQ:84:THR:O	4:AQ:85:LEU:C	2.63	0.42
1:AR:7:CYS:SG	1:AR:139:CYS:HA	2.60	0.42
4:Aa:8:GLU:O	4:Aa:12:VAL:HG23	2.20	0.42
4:Aa:84:THR:O	4:Aa:85:LEU:C	2.63	0.42
3:Ai:50:LYS:HG2	3:Ai:58:ILE:HD12	2.02	0.42
3:Aj:23:TRP:CH2	3:Aj:74:ALA:HB1	2.55	0.42
2:Am:57:ARG:HG2	2:Am:57:ARG:NH1	2.35	0.42
2:Am:83:MET:CG	2:Am:90:LEU:HA	2.48	0.42
3:An:50:LYS:HG2	3:An:58:ILE:HD12	2.02	0.42
3:An:60:GLU:CB	3:An:63:SER:HB3	2.49	0.42
3:At:97:LEU:HD23	3:At:146:ILE:CD1	2.50	0.42
3:At:129:CYS:SG	8:Cv:212:SER:HA	2.60	0.42
4:Au:84:THR:O	4:Au:85:LEU:C	2.63	0.42
1:Av:7:CYS:SG	1:Av:139:CYS:HA	2.60	0.42
3:Ay:87:THR:HG22	7:Bz:134:LEU:HG	2.01	0.42
4:B3:70:GLY:O	4:B3:73:ASP:HB3	2.20	0.42
5:B5:31:ARG:O	5:B5:32:VAL:C	2.63	0.42
4:BA:68:VAL:O	4:BA:69:LEU:C	2.63	0.42
4:BA:84:THR:O	4:BA:85:LEU:C	2.61	0.42
6:BD:60:GLU:CB	6:BD:63:SER:HB3	2.50	0.42
6:BD:63:SER:OG	6:BD:66:PHE:HB3	2.20	0.42
7:BG:95:LEU:HD21	7:BG:143:ILE:HG23	2.01	0.42
6:BI:19:TRP:O	6:BI:21:ASP:N	2.53	0.42
7:BL:3:HIS:HB3	7:BL:4:GLU:H	1.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BP:70:GLY:O	4:BP:73:ASP:HB3	2.20	0.42
5:BR:49:ILE:C	5:BR:51:ALA:H	2.27	0.42
6:BS:102:ILE:CD1	6:BS:149:ASP:CB	2.88	0.42
4:BT:81:GLN:HA	4:BT:82:PRO:HD2	1.64	0.42
6:BX:63:SER:OG	6:BX:66:PHE:HB3	2.20	0.42
4:BZ:101:ILE:HA	4:BZ:102:PRO:HD3	1.47	0.42
5:Bb:31:ARG:O	5:Bb:32:VAL:C	2.63	0.42
4:Be:68:VAL:O	4:Be:69:LEU:C	2.63	0.42
4:Be:84:THR:O	4:Be:85:LEU:C	2.61	0.42
6:Bh:143:VAL:O	6:Bh:144:ALA:C	2.62	0.42
6:Bm:19:TRP:O	6:Bm:21:ASP:N	2.53	0.42
6:Bm:60:GLU:CB	6:Bm:63:SER:HB3	2.50	0.42
6:Bm:94:LEU:HD12	6:Bm:94:LEU:HA	1.84	0.42
4:Bs:79:LEU:CA	4:Bs:85:LEU:HD22	2.50	0.42
7:Bu:109:GLN:O	7:Bu:112:HIS:HB2	2.20	0.42
6:Bw:19:TRP:O	6:Bw:21:ASP:N	2.53	0.42
6:Bw:128:SER:O	6:Bw:129:CYS:HB2	2.19	0.42
4:By:75:ALA:HB1	4:By:137:ILE:HD13	2.01	0.42
7:Bz:109:GLN:O	7:Bz:112:HIS:HB2	2.20	0.42
8:C0:21:ILE:HG23	10:C2:20:ARG:HG2	1.37	0.42
8:C0:28:LEU:HD12	10:C2:24:ILE:HG13	2.00	0.42
9:C1:75:GLU:HG2	9:C1:76:CYS:N	2.34	0.42
9:C1:155:LEU:H	9:C1:155:LEU:CD2	2.33	0.42
10:C2:48:GLY:O	10:C2:51:ARG:HB3	2.20	0.42
5:C4:8:GLU:HB2	5:C4:9:CYS:H	1.51	0.42
5:C4:73:VAL:O	5:C4:74:LEU:C	2.63	0.42
9:C6:151:VAL:HB	9:C6:166:PHE:CE1	2.55	0.42
9:C6:155:LEU:H	9:C6:155:LEU:CD2	2.33	0.42
8:CC:114:LEU:HD22	9:CD:73:GLU:HB3	2.02	0.42
8:CC:131:THR:HG23	8:CC:150:THR:OG1	2.20	0.42
8:CC:190:TYR:CD1	8:CC:209:VAL:O	2.72	0.42
9:CD:112:SER:O	9:CD:223:VAL:HA	2.20	0.42
5:CG:79:ILE:O	5:CG:80:THR:C	2.62	0.42
8:CH:221:ASN:HB3	9:CI:74:GLN:NE2	2.35	0.42
9:CI:34:LYS:C	10:CJ:35:LEU:HG	2.45	0.42
9:CN:19:PHE:C	9:CN:22:ILE:HG22	2.45	0.42
7:CP:85:LEU:HA	7:CP:91:LEU:HD22	2.02	0.42
5:CQ:79:ILE:O	5:CQ:80:THR:C	2.63	0.42
8:CR:34:GLU:HA	8:CR:37:LYS:CD	2.50	0.42
9:CS:151:VAL:HB	9:CS:166:PHE:CE1	2.55	0.42
5:CV:31:ARG:HB3	5:CV:71:GLN:HE22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CV:111:PHE:HD1	5:CV:111:PHE:H	1.68	0.42
8:CW:28:LEU:HD12	10:CY:24:ILE:HG13	2.00	0.42
9:CX:116:THR:HG22	9:CX:125:ASP:OD2	2.20	0.42
9:CX:180:ILE:HG22	9:CX:182:LEU:HD13	2.02	0.42
10:CY:48:GLY:O	10:CY:51:ARG:HB3	2.20	0.42
5:Ca:73:VAL:O	5:Ca:74:LEU:C	2.63	0.42
8:Cb:28:LEU:HD12	10:Cd:24:ILE:HG13	2.00	0.42
8:Cb:212:SER:HB2	8:Cb:213:SER:H	1.31	0.42
9:Cc:151:VAL:HB	9:Cc:166:PHE:CE1	2.55	0.42
9:Cc:180:ILE:HG22	9:Cc:182:LEU:HD13	2.02	0.42
10:Cd:198:ASP:HB3	10:Cd:220:ARG:HE	1.83	0.42
8:Cg:131:THR:HG23	8:Cg:150:THR:OG1	2.20	0.42
5:Ck:79:ILE:O	5:Ck:80:THR:C	2.62	0.42
5:Ck:107:LYS:HA	5:Ck:108:PRO:HD2	1.49	0.42
9:Cm:34:LYS:C	10:Cn:35:LEU:HG	2.45	0.42
9:Cr:19:PHE:C	9:Cr:22:ILE:HG22	2.45	0.42
10:Cs:198:ASP:HB3	10:Cs:220:ARG:HE	1.83	0.42
7:Ct:85:LEU:HA	7:Ct:91:LEU:HD22	2.02	0.42
5:Cu:31:ARG:HB3	5:Cu:71:GLN:HE22	1.85	0.42
5:Cu:79:ILE:O	5:Cu:80:THR:C	2.63	0.42
9:Cw:157:ARG:HH11	9:Cw:157:ARG:HD3	1.66	0.42
3:A3:83:LEU:HD21	3:A3:89:VAL:HG12	2.02	0.42
1:A5:20:ASP:C	1:A5:22:LEU:N	2.77	0.42
2:A6:19:LEU:O	2:A6:22:ALA:HB3	2.20	0.42
3:AA:50:LYS:HG2	3:AA:58:ILE:HD12	2.02	0.42
2:AD:134:ALA:O	2:AD:138:CYS:HB2	2.20	0.42
4:AG:79:LEU:HD12	4:AG:79:LEU:HA	1.66	0.42
3:AJ:50:LYS:HG2	3:AJ:58:ILE:HD12	2.02	0.42
3:AK:23:TRP:HA	3:AK:23:TRP:HE3	1.82	0.42
3:AK:118:ALA:O	3:AK:122:VAL:HG23	2.20	0.42
2:AN:79:ILE:O	2:AN:83:MET:HB2	2.20	0.42
3:AU:144:ALA:O	3:AU:148:LYS:HG2	2.20	0.42
3:AY:64:GLY:HA2	3:AY:67:LYS:HB2	2.02	0.42
4:Aa:58:HIS:CE1	4:Aa:59:PRO:HG2	2.54	0.42
2:Ac:19:LEU:O	2:Ac:22:ALA:HB3	2.20	0.42
3:Ad:22:VAL:CG2	3:Ad:23:TRP:N	2.82	0.42
3:Ae:28:THR:O	3:Ae:29:ASP:C	2.62	0.42
3:Ae:50:LYS:HG2	3:Ae:58:ILE:HD12	2.02	0.42
2:Ah:134:ALA:O	2:Ah:138:CYS:HB2	2.20	0.42
4:Ak:123:ARG:CD	8:Cl:179:LEU:HD11	2.42	0.42
3:Ao:49:SER:O	3:Ao:50:LYS:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ar:79:ILE:O	2:Ar:83:MET:HB2	2.20	0.42
2:Ar:134:ALA:O	2:Ar:138:CYS:HB2	2.20	0.42
3:As:63:SER:OG	3:As:66:PHE:HB3	2.20	0.42
4:Au:123:ARG:HH21	8:Cv:214:LEU:HD22	1.84	0.42
3:Ay:144:ALA:O	3:Ay:148:LYS:HG2	2.20	0.42
5:B0:134:ALA:O	5:B0:138:CYS:HB2	2.20	0.42
6:B1:63:SER:OG	6:B1:66:PHE:HB3	2.20	0.42
4:B2:79:LEU:CA	4:B2:85:LEU:HD22	2.50	0.42
4:B2:130:TRP:O	4:B2:131:ASP:C	2.61	0.42
7:B4:103:GLU:HB2	7:B4:150:ARG:HG2	2.01	0.42
5:B5:125:ARG:HG2	5:B5:125:ARG:NH1	2.35	0.42
6:B6:25:SER:OG	6:B6:27:PHE:HB2	2.20	0.42
6:BD:94:LEU:HD12	6:BD:94:LEU:HA	1.84	0.42
6:BI:60:GLU:CB	6:BI:63:SER:HB3	2.50	0.42
4:BO:79:LEU:CA	4:BO:85:LEU:HD22	2.50	0.42
4:BO:81:GLN:HA	4:BO:82:PRO:HD2	1.64	0.42
6:BS:19:TRP:O	6:BS:21:ASP:N	2.53	0.42
5:BW:18:LYS:NZ	5:BW:82:SER:HA	2.35	0.42
4:BY:79:LEU:CA	4:BY:85:LEU:HD22	2.50	0.42
5:Bb:125:ARG:HG2	5:Bb:125:ARG:NH1	2.35	0.42
6:Bc:25:SER:OG	6:Bc:27:PHE:HB2	2.20	0.42
4:Bd:59:PRO:HB3	7:CZ:89:PRO:HB2	2.02	0.42
6:Bh:63:SER:OG	6:Bh:66:PHE:HB3	2.20	0.42
4:Bi:73:ASP:O	4:Bi:74:ILE:C	2.62	0.42
7:Bk:74:ILE:CG2	7:Bk:75:LEU:H	2.25	0.42
7:Bk:95:LEU:HD21	7:Bk:143:ILE:HG23	2.01	0.42
5:Bl:107:LYS:HA	5:Bl:108:PRO:HD3	1.61	0.42
4:Bt:70:GLY:O	4:Bt:73:ASP:HB3	2.20	0.42
5:Bv:49:ILE:C	5:Bv:51:ALA:H	2.27	0.42
9:C1:57:ILE:HG22	10:C2:57:LEU:HD13	1.81	0.42
9:C1:116:THR:HG22	9:C1:125:ASP:OD2	2.20	0.42
9:C1:180:ILE:HG22	9:C1:182:LEU:HD13	2.02	0.42
5:C4:49:ILE:C	5:C4:51:ALA:N	2.76	0.42
5:C4:111:PHE:HD1	5:C4:111:PHE:H	1.68	0.42
8:C5:14:VAL:HG21	10:C7:13:ILE:HG21	0.47	0.42
8:C5:28:LEU:HD12	10:C7:24:ILE:HG13	2.00	0.42
8:CC:34:GLU:HA	8:CC:37:LYS:CD	2.50	0.42
8:CC:80:LEU:HD13	8:CC:80:LEU:HA	1.85	0.42
9:CD:34:LYS:C	10:CE:35:LEU:HG	2.45	0.42
10:CE:198:ASP:HB3	10:CE:220:ARG:HE	1.83	0.42
8:CH:131:THR:HG23	8:CH:150:THR:OG1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CL:12:THR:C	5:CL:14:SER:N	2.78	0.42
8:CM:11:GLN:HE21	8:CM:11:GLN:HB3	1.49	0.42
8:CM:155:LEU:HD23	8:CM:155:LEU:HA	1.76	0.42
8:CM:176:ARG:HB2	8:CM:196:PHE:CB	2.50	0.42
5:CQ:31:ARG:HB3	5:CQ:71:GLN:HE22	1.85	0.42
5:CQ:111:PHE:H	5:CQ:111:PHE:HD1	1.68	0.42
8:CR:102:LEU:HD22	8:CR:102:LEU:HA	1.59	0.42
8:CR:141:PHE:HD1	8:CR:141:PHE:HA	1.56	0.42
9:CS:47:VAL:CG1	9:CS:48:SER:N	2.81	0.42
9:CS:116:THR:HG22	9:CS:125:ASP:OD2	2.20	0.42
9:CS:155:LEU:H	9:CS:155:LEU:CD2	2.33	0.42
10:CT:100:LEU:HA	10:CT:101:PRO:HD2	1.87	0.42
8:CW:117:TRP:CB	8:CW:121:GLU:H	2.32	0.42
5:Ca:11:VAL:CG2	5:Ca:12:THR:N	2.82	0.42
5:Ca:49:ILE:C	5:Ca:51:ALA:N	2.76	0.42
5:Ca:111:PHE:HD1	5:Ca:111:PHE:H	1.68	0.42
8:Cb:143:ASN:HB3	8:Cb:144:ARG:H	1.57	0.42
9:Cc:155:LEU:HD23	9:Cc:155:LEU:O	2.20	0.42
9:Cc:155:LEU:H	9:Cc:155:LEU:CD2	2.33	0.42
9:Ch:31:LEU:CD1	10:Ci:28:ILE:C	2.89	0.42
9:Ch:34:LYS:C	10:Ci:35:LEU:HG	2.45	0.42
9:Ch:112:SER:O	9:Ch:223:VAL:HA	2.20	0.42
5:Ck:84:LEU:HD12	5:Ck:84:LEU:HA	1.86	0.42
8:Cl:80:LEU:HD13	8:Cl:80:LEU:HA	1.85	0.42
8:Cl:221:ASN:HB3	9:Cm:74:GLN:NE2	2.35	0.42
8:Cq:155:LEU:HD23	8:Cq:155:LEU:HA	1.76	0.42
5:Cu:107:LYS:HA	5:Cu:108:PRO:HD2	1.49	0.42
5:Cu:111:PHE:H	5:Cu:111:PHE:HD1	1.68	0.42
8:Cv:66:GLU:HG3	8:Cv:78:HIS:HA	2.00	0.42
9:Cw:151:VAL:HB	9:Cw:166:PHE:CE1	2.55	0.42
10:Cx:67:HIS:HB3	10:Cx:77:ILE:HD12	2.01	0.42
5:Cz:31:ARG:HB3	5:Cz:71:GLN:HE22	1.85	0.42
3:A2:22:VAL:CG2	3:A2:23:TRP:N	2.82	0.41
3:A2:64:GLY:HA2	3:A2:67:LYS:HB2	2.02	0.41
2:A6:17:VAL:HG13	2:A6:135:TRP:CZ2	2.55	0.41
3:A7:64:GLY:HA2	3:A7:67:LYS:HB2	2.02	0.41
3:AA:118:ALA:O	3:AA:122:VAL:HG23	2.20	0.41
3:AF:28:THR:O	3:AF:29:ASP:C	2.62	0.41
2:AI:17:VAL:HG13	2:AI:135:TRP:CZ2	2.55	0.41
3:AJ:22:VAL:CG2	3:AJ:23:TRP:N	2.82	0.41
3:AK:122:VAL:C	3:AK:124:PRO:HD2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AL:123:ARG:HH21	8:CM:214:LEU:HD22	1.84	0.41
1:AM:127:VAL:HG23	1:AM:128:LEU:HG	2.02	0.41
3:AP:50:LYS:HG2	3:AP:58:ILE:HD12	2.02	0.41
3:AT:63:SER:OG	3:AT:66:PHE:HB3	2.20	0.41
3:AU:87:THR:HG22	7:BV:134:LEU:HG	2.01	0.41
3:AY:22:VAL:CG2	3:AY:23:TRP:N	2.82	0.41
3:AY:94:LEU:HD12	3:AY:94:LEU:HA	1.84	0.41
3:AZ:49:SER:O	3:AZ:50:LYS:C	2.62	0.41
3:AZ:83:LEU:HD21	3:AZ:89:VAL:HG12	2.02	0.41
1:Ab:14:ILE:O	1:Ab:15:VAL:C	2.60	0.41
2:Ac:17:VAL:HG13	2:Ac:135:TRP:CZ2	2.55	0.41
3:Ae:118:ALA:O	3:Ae:122:VAL:HG23	2.20	0.41
4:Af:79:LEU:HD12	4:Af:79:LEU:HA	1.66	0.41
3:Aj:136:ASN:HD22	3:Aj:136:ASN:HA	1.56	0.41
2:Am:10:LEU:HB3	2:Am:13:GLU:CG	2.49	0.41
2:Am:17:VAL:HG13	2:Am:135:TRP:CZ2	2.55	0.41
3:An:22:VAL:CG2	3:An:23:TRP:N	2.82	0.41
3:Ao:28:THR:O	3:Ao:29:ASP:C	2.62	0.41
3:Ao:118:ALA:O	3:Ao:122:VAL:HG23	2.20	0.41
3:Ao:122:VAL:C	3:Ao:124:PRO:HD2	2.45	0.41
4:Ap:123:ARG:HH21	8:Cq:214:LEU:HD22	1.84	0.41
3:At:50:LYS:HG2	3:At:58:ILE:HD12	2.02	0.41
3:Ax:63:SER:OG	3:Ax:66:PHE:HB3	2.20	0.41
3:Ay:128:SER:O	3:Ay:129:CYS:HB2	2.19	0.41
5:B0:18:LYS:NZ	5:B0:82:SER:HA	2.35	0.41
5:B5:18:LYS:NZ	5:B5:82:SER:HA	2.35	0.41
5:B5:111:PHE:H	5:B5:111:PHE:HD1	1.69	0.41
4:B7:59:PRO:HB3	7:C3:89:PRO:HB2	2.02	0.41
5:BC:117:HIS:O	5:BC:118:LEU:C	2.63	0.41
5:BC:134:ALA:O	5:BC:138:CYS:HB2	2.20	0.41
5:BH:79:ILE:O	5:BH:80:THR:C	2.61	0.41
6:BI:94:LEU:HD12	6:BI:94:LEU:HA	1.84	0.41
4:BJ:79:LEU:HA	4:BJ:85:LEU:HD22	2.01	0.41
4:BK:75:ALA:HB1	4:BK:137:ILE:HD13	2.01	0.41
7:BL:103:GLU:HB2	7:BL:150:ARG:HG2	2.01	0.41
5:BM:19:LEU:O	5:BM:22:ALA:HB3	2.20	0.41
4:BP:99:ARG:HE	4:BP:99:ARG:N	2.17	0.41
6:BS:23:TRP:HB3	6:BS:24:SER:H	1.75	0.41
4:BT:79:LEU:HA	4:BT:85:LEU:HD22	2.01	0.41
5:BW:107:LYS:HE2	5:BW:110:PHE:CE2	2.54	0.41
5:BW:134:ALA:O	5:BW:138:CYS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BY:130:TRP:O	4:BY:131:ASP:C	2.61	0.41
7:Ba:103:GLU:HB2	7:Ba:150:ARG:HG2	2.01	0.41
5:Bb:8:GLU:HB3	5:Bb:141:GLN:HE22	1.84	0.41
5:Bb:18:LYS:NZ	5:Bb:82:SER:HA	2.35	0.41
5:Bb:111:PHE:H	5:Bb:111:PHE:HD1	1.69	0.41
6:Bc:71:VAL:HB	5:Ca:83:MET:CE	2.46	0.41
6:Bm:24:SER:HB3	6:Bm:25:SER:H	1.64	0.41
6:Bm:78:LYS:HZ3	5:Ck:31:ARG:HH22	1.68	0.41
4:Bn:79:LEU:HA	4:Bn:85:LEU:HD22	2.01	0.41
7:Bp:103:GLU:HB2	7:Bp:150:ARG:HG2	2.01	0.41
5:Bq:19:LEU:O	5:Bq:22:ALA:HB3	2.20	0.41
4:Bx:79:LEU:HA	4:Bx:85:LEU:HD22	2.01	0.41
4:By:68:VAL:O	4:By:69:LEU:C	2.63	0.41
9:C1:47:VAL:CG1	9:C1:48:SER:N	2.81	0.41
9:C1:75:GLU:OE2	9:C1:77:ILE:HD11	2.20	0.41
8:C5:114:LEU:HD22	9:C6:73:GLU:HB3	2.02	0.41
8:C5:176:ARG:HB2	8:C5:196:PHE:CB	2.50	0.41
9:C6:155:LEU:HD23	9:C6:155:LEU:O	2.20	0.41
9:C6:173:ASN:HD22	9:C6:173:ASN:C	2.27	0.41
8:CC:14:VAL:HG21	10:CE:13:ILE:HG21	0.47	0.41
5:CG:107:LYS:HA	5:CG:108:PRO:HD2	1.49	0.41
8:CH:35:TYR:OH	10:CJ:34:LEU:CB	2.53	0.41
8:CH:176:ARG:HB2	8:CH:196:PHE:CB	2.50	0.41
9:CI:121:LEU:HD23	9:CI:121:LEU:HA	1.81	0.41
8:CM:221:ASN:HB3	9:CN:74:GLN:NE2	2.35	0.41
9:CN:75:GLU:OE2	9:CN:77:ILE:HD11	2.20	0.41
5:CQ:14:SER:O	5:CQ:17:VAL:N	2.53	0.41
8:CR:103:ASN:O	8:CR:106:HIS:HB2	2.20	0.41
10:CT:38:ARG:HB3	10:CT:38:ARG:HE	1.69	0.41
10:CT:67:HIS:HB3	10:CT:77:ILE:HD12	2.01	0.41
10:CT:89:CYS:HB3	10:CT:92:GLY:H	1.83	0.41
10:CT:102:THR:O	10:CT:102:THR:HG22	2.20	0.41
9:CX:75:GLU:OE2	9:CX:77:ILE:HD11	2.20	0.41
8:Cb:114:LEU:HD22	9:Cc:73:GLU:HB3	2.02	0.41
9:Cc:47:VAL:CG1	9:Cc:48:SER:N	2.81	0.41
9:Cc:173:ASN:HD22	9:Cc:173:ASN:C	2.27	0.41
8:Cg:14:VAL:HG21	10:Ci:13:ILE:HG21	0.47	0.41
8:Cg:34:GLU:HA	8:Cg:37:LYS:CD	2.50	0.41
5:Ck:11:VAL:CG2	5:Ck:12:THR:N	2.82	0.41
8:Cl:131:THR:HG23	8:Cl:150:THR:OG1	2.20	0.41
8:Cl:176:ARG:HB2	8:Cl:196:PHE:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cm:121:LEU:HD23	9:Cm:121:LEU:HA	1.81	0.41
9:Cm:209:ARG:HD2	9:Cm:209:ARG:HA	1.78	0.41
10:Cn:197:PHE:HB3	10:Cn:199:ARG:CB	2.37	0.41
5:Cp:12:THR:C	5:Cp:14:SER:N	2.78	0.41
8:Cq:101:SER:HB2	8:Cq:104:ILE:CG1	2.25	0.41
8:Cq:145:VAL:H	8:Cq:145:VAL:HG22	1.54	0.41
8:Cq:176:ARG:HB2	8:Cq:196:PHE:CB	2.50	0.41
8:Cq:221:ASN:HB3	9:Cr:74:GLN:NE2	2.35	0.41
9:Cr:75:GLU:OE2	9:Cr:77:ILE:HD11	2.20	0.41
5:Cu:14:SER:O	5:Cu:17:VAL:N	2.53	0.41
9:Cw:77:ILE:HG22	9:Cw:82:VAL:HB	2.01	0.41
9:Cw:116:THR:HG22	9:Cw:125:ASP:OD2	2.20	0.41
9:Cw:180:ILE:HG22	9:Cw:182:LEU:HD13	2.02	0.41
10:Cx:102:THR:O	10:Cx:102:THR:HG22	2.20	0.41
1:A0:95:LEU:HD21	1:A0:143:ILE:HG23	2.02	0.41
2:A1:57:ARG:HG2	2:A1:57:ARG:NH1	2.35	0.41
2:A1:79:ILE:O	2:A1:83:MET:HB2	2.20	0.41
2:A1:84:LEU:HD12	2:A1:90:LEU:HD11	1.96	0.41
3:A3:49:SER:O	3:A3:50:LYS:C	2.62	0.41
2:AD:49:ILE:C	2:AD:51:ALA:H	2.26	0.41
3:AE:60:GLU:CB	3:AE:63:SER:HB3	2.49	0.41
2:AI:19:LEU:O	2:AI:22:ALA:HB3	2.20	0.41
2:AI:83:MET:CG	2:AI:90:LEU:HA	2.48	0.41
3:AK:23:TRP:CH2	3:AK:74:ALA:HB1	2.55	0.41
3:AK:28:THR:O	3:AK:29:ASP:C	2.62	0.41
3:AK:83:LEU:HD21	3:AK:89:VAL:HG12	2.02	0.41
3:AK:129:CYS:SG	8:CM:212:SER:HA	2.60	0.41
2:AN:111:PHE:N	2:AN:111:PHE:CD1	2.86	0.41
2:AN:134:ALA:O	2:AN:138:CYS:HB2	2.20	0.41
3:AO:96:HIS:CE1	5:BM:55:ARG:HH22	2.37	0.41
3:AP:19:TRP:O	3:AP:21:ASP:N	2.53	0.41
3:AP:144:ALA:O	3:AP:148:LYS:HG2	2.20	0.41
4:AQ:123:ARG:HH21	8:CR:214:LEU:HD22	1.84	0.41
3:AU:128:SER:O	3:AU:129:CYS:HB2	2.19	0.41
2:AX:19:LEU:O	2:AX:22:ALA:HB3	2.20	0.41
2:AX:57:ARG:HG2	2:AX:57:ARG:NH1	2.35	0.41
2:AX:79:ILE:O	2:AX:83:MET:HB2	2.20	0.41
2:Ac:84:LEU:HD12	2:Ac:90:LEU:HD11	1.96	0.41
3:Ad:64:GLY:HA2	3:Ad:67:LYS:HB2	2.02	0.41
3:Ae:122:VAL:C	3:Ae:124:PRO:HD2	2.45	0.41
4:Af:8:GLU:O	4:Af:12:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Ak:73:ASP:O	4:Ak:74:ILE:C	2.61	0.41
2:Am:19:LEU:O	2:Am:22:ALA:HB3	2.20	0.41
3:Ao:23:TRP:HA	3:Ao:23:TRP:HE3	1.82	0.41
3:Ao:129:CYS:SG	8:Cq:212:SER:HA	2.60	0.41
1:Aq:127:VAL:HG23	1:Aq:128:LEU:HG	2.02	0.41
3:At:19:TRP:O	3:At:21:ASP:N	2.53	0.41
3:At:83:LEU:HD21	3:At:89:VAL:HG12	2.02	0.41
2:Aw:49:ILE:C	2:Aw:51:ALA:H	2.26	0.41
5:B0:107:LYS:HE2	5:B0:110:PHE:CE2	2.54	0.41
4:B2:59:PRO:HB3	7:Cy:89:PRO:HB2	2.02	0.41
7:B4:95:LEU:HD21	7:B4:143:ILE:HG23	2.01	0.41
6:B6:71:VAL:HB	5:C4:83:MET:CE	2.46	0.41
5:BC:107:LYS:HE2	5:BC:110:PHE:CE2	2.54	0.41
5:BC:111:PHE:HD1	5:BC:111:PHE:H	1.68	0.41
4:BE:73:ASP:O	4:BE:74:ILE:C	2.62	0.41
4:BF:68:VAL:O	4:BF:69:LEU:C	2.63	0.41
5:BH:111:PHE:HD1	5:BH:111:PHE:H	1.68	0.41
5:BR:79:ILE:O	5:BR:80:THR:C	2.61	0.41
4:BY:81:GLN:HA	4:BY:82:PRO:HD2	1.64	0.41
7:Ba:85:LEU:HA	7:Ba:91:LEU:HD22	2.02	0.41
5:Bg:111:PHE:HD1	5:Bg:111:PHE:H	1.68	0.41
5:Bg:117:HIS:O	5:Bg:118:LEU:C	2.63	0.41
5:Bg:134:ALA:O	5:Bg:138:CYS:HB2	2.20	0.41
6:Bh:25:SER:OG	6:Bh:27:PHE:HB2	2.20	0.41
6:Bh:123:LEU:O	6:Bh:127:LEU:HD23	2.20	0.41
4:Bj:68:VAL:O	4:Bj:69:LEU:C	2.63	0.41
7:Bk:14:ILE:O	7:Bk:15:VAL:C	2.62	0.41
5:Bl:79:ILE:O	5:Bl:80:THR:C	2.61	0.41
4:Bo:75:ALA:HB1	4:Bo:137:ILE:HD13	2.01	0.41
4:Bt:99:ARG:HE	4:Bt:99:ARG:N	2.17	0.41
5:Bv:107:LYS:HE2	5:Bv:110:PHE:CE2	2.54	0.41
6:Bw:22:VAL:CG2	6:Bw:23:TRP:N	2.84	0.41
6:Bw:102:ILE:CD1	6:Bw:149:ASP:CB	2.88	0.41
7:Bz:3:HIS:HB3	7:Bz:4:GLU:H	1.63	0.41
9:C1:137:ARG:HH11	9:C1:137:ARG:HD2	1.73	0.41
9:C1:138:ARG:CD	10:C7:157:ASP:CG	2.90	0.41
8:C5:221:ASN:HB3	9:C6:74:GLN:NE2	2.35	0.41
9:C6:47:VAL:CG1	9:C6:48:SER:N	2.81	0.41
9:C6:112:SER:O	9:C6:223:VAL:HA	2.19	0.41
5:CB:31:ARG:HB3	5:CB:71:GLN:HE22	1.85	0.41
8:CC:12:TYR:HB3	8:CC:13:LEU:H	1.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CC:176:ARG:HB2	8:CC:196:PHE:CB	2.50	0.41
5:CG:49:ILE:C	5:CG:51:ALA:N	2.76	0.41
8:CH:21:ILE:HG23	10:CJ:20:ARG:HG2	1.37	0.41
8:CM:28:LEU:HD21	10:CO:27:SER:CB	2.50	0.41
8:CM:130:VAL:O	8:CM:130:VAL:CG1	2.68	0.41
8:CR:53:ARG:HA	8:CR:56:ASN:OD1	2.20	0.41
8:CR:66:GLU:HG3	8:CR:78:HIS:HA	2.00	0.41
8:CR:130:VAL:O	8:CR:130:VAL:CG1	2.68	0.41
9:CS:157:ARG:HH11	9:CS:157:ARG:HD3	1.66	0.41
8:CW:10:PHE:CZ	10:CY:10:HIS:CG	3.01	0.41
9:CX:47:VAL:CG1	9:CX:48:SER:N	2.81	0.41
9:CX:157:ARG:HH11	9:CX:157:ARG:HD3	1.66	0.41
8:Cb:176:ARG:HB2	8:Cb:196:PHE:CB	2.50	0.41
7:Ce:14:ILE:O	7:Ce:15:VAL:C	2.62	0.41
5:Cf:31:ARG:HB3	5:Cf:71:GLN:HE22	1.85	0.41
8:Cg:173:PHE:HD1	8:Cg:173:PHE:HA	1.10	0.41
8:Cg:176:ARG:HB2	8:Cg:196:PHE:CB	2.50	0.41
8:Cg:198:LEU:CD1	8:Cg:203:HIS:CB	2.97	0.41
9:Ch:157:ARG:HH11	9:Ch:157:ARG:HD3	1.66	0.41
10:Ci:198:ASP:HB3	10:Ci:220:ARG:HE	1.83	0.41
5:Ck:31:ARG:HB3	5:Ck:71:GLN:HE22	1.85	0.41
9:Cm:42:ASP:HA	9:Cm:43:PRO:HD2	1.73	0.41
10:Cn:48:GLY:O	10:Cn:51:ARG:HB3	2.20	0.41
8:Cq:103:ASN:O	8:Cq:106:HIS:HB2	2.20	0.41
8:Cq:130:VAL:O	8:Cq:130:VAL:CG1	2.68	0.41
8:Cq:176:ARG:HB3	8:Cq:176:ARG:HE	1.55	0.41
9:Cr:155:LEU:HD23	9:Cr:155:LEU:O	2.20	0.41
8:Cv:103:ASN:O	8:Cv:106:HIS:HB2	2.20	0.41
9:Cw:47:VAL:CG1	9:Cw:48:SER:N	2.81	0.41
9:Cw:155:LEU:H	9:Cw:155:LEU:CD2	2.33	0.41
10:Cx:89:CYS:HB3	10:Cx:92:GLY:H	1.83	0.41
1:A0:88:PRO:HG2	1:A0:89:PRO:CD	2.50	0.41
2:A1:19:LEU:O	2:A1:22:ALA:HB3	2.20	0.41
3:A3:144:ALA:O	3:A3:148:LYS:HG2	2.20	0.41
2:A6:84:LEU:HD12	2:A6:90:LEU:HD11	1.96	0.41
4:AB:8:GLU:O	4:AB:12:VAL:HG23	2.20	0.41
3:AK:97:LEU:HD23	3:AK:146:ILE:CD1	2.50	0.41
1:AM:7:CYS:SG	1:AM:139:CYS:HA	2.60	0.41
3:AP:83:LEU:HD21	3:AP:89:VAL:HG12	2.02	0.41
4:AQ:81:GLN:HA	4:AQ:82:PRO:HD2	1.83	0.41
2:AS:117:HIS:O	2:AS:118:LEU:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AU:97:LEU:HD23	3:AU:146:ILE:CD1	2.50	0.41
1:AW:95:LEU:HD21	1:AW:143:ILE:HG23	2.02	0.41
3:Ai:60:GLU:CB	3:Ai:63:SER:HB3	2.49	0.41
3:Aj:28:THR:O	3:Aj:29:ASP:C	2.62	0.41
4:Ak:79:LEU:HD12	4:Ak:79:LEU:HA	1.66	0.41
3:Ao:23:TRP:CH2	3:Ao:74:ALA:HB1	2.55	0.41
3:Ao:83:LEU:HD21	3:Ao:89:VAL:HG12	2.02	0.41
3:Ao:97:LEU:HD23	3:Ao:146:ILE:CD1	2.50	0.41
1:Aq:7:CYS:SG	1:Aq:139:CYS:HA	2.60	0.41
3:As:96:HIS:CE1	5:Bq:55:ARG:HH22	2.37	0.41
3:At:144:ALA:O	3:At:148:LYS:HG2	2.20	0.41
1:Av:95:LEU:HD21	1:Av:143:ILE:HG23	2.02	0.41
3:Ay:129:CYS:SG	8:C0:212:SER:HA	2.60	0.41
7:B4:85:LEU:HA	7:B4:91:LEU:HD22	2.02	0.41
5:B5:8:GLU:HB3	5:B5:141:GLN:HE22	1.84	0.41
7:BB:70:HIS:O	7:BB:71:ALA:C	2.63	0.41
6:BD:25:SER:OG	6:BD:27:PHE:HB2	2.20	0.41
6:BD:123:LEU:O	6:BD:127:LEU:HD23	2.20	0.41
7:BG:14:ILE:O	7:BG:15:VAL:C	2.62	0.41
6:BI:86:ASP:O	6:BI:87:THR:C	2.62	0.41
7:BL:109:GLN:O	7:BL:112:HIS:HB2	2.20	0.41
6:BN:19:TRP:O	6:BN:21:ASP:N	2.53	0.41
6:BS:22:VAL:CG2	6:BS:23:TRP:N	2.84	0.41
6:BS:25:SER:OG	6:BS:27:PHE:HB2	2.20	0.41
4:BU:68:VAL:O	4:BU:69:LEU:C	2.63	0.41
7:Ba:95:LEU:HD21	7:Ba:143:ILE:HG23	2.01	0.41
7:Bf:70:HIS:O	7:Bf:71:ALA:C	2.63	0.41
5:Bg:107:LYS:HE2	5:Bg:110:PHE:CE2	2.54	0.41
7:Bk:150:ARG:HH11	7:Bk:150:ARG:HD2	1.69	0.41
5:Bl:111:PHE:H	5:Bl:111:PHE:HD1	1.68	0.41
6:Bm:86:ASP:O	6:Bm:87:THR:C	2.62	0.41
4:Bn:73:ASP:O	4:Bn:74:ILE:C	2.62	0.41
5:Bq:134:ALA:O	5:Bq:138:CYS:HB2	2.20	0.41
6:Br:19:TRP:O	6:Br:21:ASP:N	2.53	0.41
4:Bs:79:LEU:HA	4:Bs:85:LEU:HD22	2.01	0.41
9:C1:34:LYS:C	10:C2:35:LEU:HG	2.45	0.41
7:C3:40:LEU:O	7:C3:43:LEU:HB3	2.21	0.41
8:C5:82:PHE:HD1	8:C5:83:CYS:CA	2.29	0.41
8:C5:172:ASN:ND2	8:C5:174:GLY:H	2.18	0.41
9:C6:123:ARG:HE	9:C6:123:ARG:HB2	1.50	0.41
5:CB:12:THR:C	5:CB:14:SER:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CB:125:ARG:HG2	5:CB:125:ARG:NH1	2.35	0.41
8:CC:81:LEU:H	8:CC:81:LEU:HG	1.59	0.41
8:CC:198:LEU:CD1	8:CC:203:HIS:CB	2.97	0.41
8:CC:221:ASN:HB3	9:CD:74:GLN:NE2	2.35	0.41
10:CE:48:GLY:O	10:CE:51:ARG:HB3	2.20	0.41
7:CF:151:LEU:HD23	7:CF:151:LEU:HA	1.75	0.41
5:CG:11:VAL:CG2	5:CG:12:THR:N	2.82	0.41
5:CG:31:ARG:HB3	5:CG:71:GLN:HE22	1.85	0.41
8:CH:56:ASN:CB	8:CH:198:LEU:O	2.67	0.41
9:CI:19:PHE:C	9:CI:22:ILE:HG22	2.45	0.41
10:CJ:48:GLY:O	10:CJ:51:ARG:HB3	2.20	0.41
8:CM:11:GLN:CA	10:CO:13:ILE:CD1	2.78	0.41
8:CM:34:GLU:HA	8:CM:37:LYS:CD	2.50	0.41
9:CN:151:VAL:HB	9:CN:166:PHE:CE1	2.55	0.41
9:CN:207:CYS:HB2	9:CN:221:LEU:HB3	2.01	0.41
10:CO:38:ARG:HB3	10:CO:38:ARG:HE	1.70	0.41
9:CS:77:ILE:HG22	9:CS:82:VAL:HB	2.01	0.41
9:CS:102:THR:HG23	9:CS:103:SER:N	2.36	0.41
9:CS:180:ILE:HG22	9:CS:182:LEU:HD13	2.02	0.41
10:CT:52:HIS:O	10:CT:53:ARG:C	2.62	0.41
9:CX:34:LYS:C	10:CY:35:LEU:HG	2.45	0.41
9:CX:77:ILE:HG22	9:CX:82:VAL:HB	2.01	0.41
9:CX:137:ARG:HH11	9:CX:137:ARG:HD2	1.73	0.41
9:CX:138:ARG:CD	10:Cd:157:ASP:CG	2.90	0.41
9:CX:157:ARG:HG3	9:CX:158:HIS:N	2.33	0.41
7:CZ:40:LEU:O	7:CZ:43:LEU:HB3	2.21	0.41
5:Ca:14:SER:O	5:Ca:17:VAL:N	2.53	0.41
5:Ca:31:ARG:HB3	5:Ca:71:GLN:HE22	1.85	0.41
8:Cb:172:ASN:ND2	8:Cb:174:GLY:H	2.18	0.41
8:Cb:221:ASN:HB3	9:Cc:74:GLN:NE2	2.35	0.41
9:Cc:38:ALA:H	10:Cd:35:LEU:HD11	1.82	0.41
9:Cc:75:GLU:OE2	9:Cc:77:ILE:HD11	2.20	0.41
9:Cc:112:SER:O	9:Cc:223:VAL:HA	2.19	0.41
5:Cf:12:THR:C	5:Cf:14:SER:N	2.78	0.41
9:Ch:24:LEU:HD21	10:Ci:24:ILE:CG2	2.41	0.41
9:Ch:42:ASP:HA	9:Ch:43:PRO:HD2	1.73	0.41
9:Ch:116:THR:HG22	9:Ch:125:ASP:OD2	2.20	0.41
5:Ck:49:ILE:C	5:Ck:51:ALA:N	2.76	0.41
8:Cl:114:LEU:HD22	9:Cm:73:GLU:HB3	2.02	0.41
9:Cm:19:PHE:C	9:Cm:22:ILE:HG22	2.45	0.41
9:Cm:116:THR:HG22	9:Cm:125:ASP:OD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Cn:179:HIS:HA	10:Cn:180:PRO:HD3	1.57	0.41
8:Cq:28:LEU:HD21	10:Cs:27:SER:CB	2.50	0.41
8:Cq:34:GLU:HA	8:Cq:37:LYS:CD	2.50	0.41
9:Cr:151:VAL:HB	9:Cr:166:PHE:CE1	2.55	0.41
8:Cv:53:ARG:HA	8:Cv:56:ASN:OD1	2.20	0.41
8:Cv:168:ARG:HG2	8:Cv:169:GLY:H	1.85	0.41
9:Cw:102:THR:HG23	9:Cw:103:SER:N	2.36	0.41
5:Cz:107:LYS:HA	5:Cz:108:PRO:HD2	1.49	0.41
2:A1:69:HIS:O	2:A1:70:SER:C	2.63	0.41
3:A2:50:LYS:HG2	3:A2:58:ILE:HD12	2.02	0.41
3:A2:112:PHE:C	3:A2:114:GLY:N	2.77	0.41
3:A3:23:TRP:CH2	3:A3:74:ALA:HB1	2.55	0.41
2:A6:79:ILE:O	2:A6:83:MET:HB2	2.20	0.41
3:AA:128:SER:O	3:AA:129:CYS:HB2	2.19	0.41
1:AC:7:CYS:SG	1:AC:139:CYS:HA	2.60	0.41
2:AI:79:ILE:O	2:AI:83:MET:HB2	2.20	0.41
3:AK:112:PHE:C	3:AK:114:GLY:N	2.76	0.41
3:AK:147:ALA:O	3:AK:151:PRO:HD2	2.20	0.41
1:AM:88:PRO:HG2	1:AM:89:PRO:CD	2.50	0.41
2:AN:49:ILE:C	2:AN:51:ALA:H	2.26	0.41
1:AR:95:LEU:HD21	1:AR:143:ILE:HG23	2.02	0.41
3:AU:129:CYS:SG	8:CW:212:SER:HA	2.60	0.41
1:AW:88:PRO:HG2	1:AW:89:PRO:CD	2.50	0.41
2:AX:69:HIS:O	2:AX:70:SER:C	2.63	0.41
2:AX:84:LEU:HD12	2:AX:90:LEU:HD11	1.96	0.41
2:AX:125:ARG:HG2	2:AX:125:ARG:NH1	2.34	0.41
3:AZ:23:TRP:CH2	3:AZ:74:ALA:HB1	2.55	0.41
3:AZ:128:SER:O	3:AZ:129:CYS:HB2	2.19	0.41
3:AZ:144:ALA:O	3:AZ:148:LYS:HG2	2.20	0.41
3:Ad:96:HIS:CE1	5:Bb:55:ARG:HH22	2.37	0.41
3:Ae:128:SER:O	3:Ae:129:CYS:HB2	2.19	0.41
1:Ag:7:CYS:SG	1:Ag:139:CYS:HA	2.60	0.41
2:Ah:17:VAL:HG13	2:Ah:135:TRP:CZ2	2.55	0.41
3:Ao:112:PHE:C	3:Ao:114:GLY:N	2.76	0.41
1:Aq:88:PRO:HG2	1:Aq:89:PRO:CD	2.50	0.41
2:Ar:49:ILE:C	2:Ar:51:ALA:H	2.26	0.41
3:As:122:VAL:C	3:As:124:PRO:HD2	2.45	0.41
2:Aw:17:VAL:HG13	2:Aw:135:TRP:CZ2	2.55	0.41
2:Aw:117:HIS:O	2:Aw:118:LEU:C	2.63	0.41
3:Ay:19:TRP:O	3:Ay:21:ASP:N	2.53	0.41
3:Ay:97:LEU:HD23	3:Ay:146:ILE:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B0:31:ARG:O	5:B0:32:VAL:C	2.63	0.41
6:B1:22:VAL:CG2	6:B1:23:TRP:N	2.84	0.41
6:B6:22:VAL:CG2	6:B6:23:TRP:N	2.84	0.41
6:B6:60:GLU:CB	6:B6:63:SER:HB3	2.50	0.41
5:BC:18:LYS:NZ	5:BC:82:SER:HA	2.35	0.41
5:BC:49:ILE:C	5:BC:51:ALA:H	2.27	0.41
6:BD:131:ASN:O	6:BD:132:VAL:C	2.64	0.41
7:BG:74:ILE:CG2	7:BG:75:LEU:H	2.25	0.41
5:BH:49:ILE:C	5:BH:51:ALA:H	2.27	0.41
5:BM:134:ALA:O	5:BM:138:CYS:HB2	2.20	0.41
6:BN:22:VAL:CG2	6:BN:23:TRP:N	2.84	0.41
4:BO:79:LEU:HA	4:BO:85:LEU:HD22	2.01	0.41
7:BQ:103:GLU:HB2	7:BQ:150:ARG:HG2	2.01	0.41
5:BR:107:LYS:HE2	5:BR:110:PHE:CE2	2.54	0.41
5:BW:79:ILE:O	5:BW:80:THR:C	2.61	0.41
4:BY:59:PRO:HB3	7:CU:89:PRO:HB2	2.02	0.41
4:Bd:130:TRP:O	4:Bd:131:ASP:C	2.61	0.41
7:Bf:95:LEU:HD21	7:Bf:143:ILE:HG23	2.01	0.41
5:Bg:18:LYS:NZ	5:Bg:82:SER:HA	2.35	0.41
5:Bg:49:ILE:C	5:Bg:51:ALA:H	2.27	0.41
6:Bh:131:ASN:O	6:Bh:132:VAL:C	2.64	0.41
6:Br:22:VAL:CG2	6:Br:23:TRP:N	2.84	0.41
5:Bv:134:ALA:O	5:Bv:138:CYS:HB2	2.20	0.41
6:Bw:25:SER:OG	6:Bw:27:PHE:HB2	2.20	0.41
7:Bz:85:LEU:HA	7:Bz:91:LEU:HD22	2.02	0.41
9:C1:24:LEU:CD2	10:C2:21:THR:HG23	2.51	0.41
9:C1:157:ARG:HG3	9:C1:158:HIS:N	2.33	0.41
5:C4:14:SER:O	5:C4:17:VAL:N	2.53	0.41
5:C4:31:ARG:HB3	5:C4:71:GLN:HE22	1.85	0.41
8:C5:70:ARG:CB	8:C5:93:SER:HB3	2.49	0.41
9:C6:74:GLN:O	9:C6:74:GLN:HG2	2.19	0.41
9:C6:75:GLU:OE2	9:C6:77:ILE:HD11	2.20	0.41
7:CA:14:ILE:O	7:CA:15:VAL:C	2.62	0.41
8:CC:56:ASN:HA	8:CC:199:GLY:CA	2.39	0.41
8:CC:73:VAL:HA	8:CC:74:PRO:HD3	1.71	0.41
8:CC:101:SER:HB2	8:CC:104:ILE:CG1	2.25	0.41
8:CC:172:ASN:ND2	8:CC:174:GLY:H	2.18	0.41
8:CH:212:SER:HB2	8:CH:213:SER:H	1.31	0.41
10:CJ:161:VAL:HG12	10:CJ:162:SER:N	2.34	0.41
7:CK:40:LEU:O	7:CK:43:LEU:HB3	2.21	0.41
8:CM:53:ARG:HA	8:CM:56:ASN:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CM:103:ASN:O	8:CM:106:HIS:HB2	2.20	0.41
9:CN:155:LEU:HD23	9:CN:155:LEU:O	2.20	0.41
10:CO:102:THR:O	10:CO:102:THR:HG22	2.20	0.41
5:CQ:107:LYS:HA	5:CQ:108:PRO:HD2	1.49	0.41
8:CR:131:THR:HG23	8:CR:150:THR:OG1	2.20	0.41
8:CR:168:ARG:HG2	8:CR:169:GLY:H	1.85	0.41
8:CW:82:PHE:HA	8:CW:83:CYS:HA	1.65	0.41
9:CX:24:LEU:CD2	10:CY:21:THR:HG23	2.51	0.41
5:Ca:125:ARG:HG2	5:Ca:125:ARG:NH1	2.35	0.41
8:Cb:70:ARG:CB	8:Cb:93:SER:HB3	2.49	0.41
5:Cf:125:ARG:HG2	5:Cf:125:ARG:NH1	2.35	0.41
8:Cg:172:ASN:ND2	8:Cg:174:GLY:H	2.18	0.41
9:Ch:209:ARG:HD2	9:Ch:209:ARG:HA	1.78	0.41
8:Cl:35:TYR:OH	10:Cn:34:LEU:CB	2.53	0.41
7:Co:40:LEU:O	7:Co:43:LEU:HB3	2.21	0.41
5:Cp:31:ARG:HB3	5:Cp:71:GLN:HE22	1.85	0.41
8:Cq:11:GLN:CA	10:Cs:13:ILE:CD1	2.78	0.41
8:Cq:53:ARG:HA	8:Cq:56:ASN:OD1	2.20	0.41
9:Cr:207:CYS:HB2	9:Cr:221:LEU:HB3	2.01	0.41
10:Cs:38:ARG:HB3	10:Cs:38:ARG:HE	1.70	0.41
10:Cs:102:THR:O	10:Cs:102:THR:HG22	2.20	0.41
8:Cv:221:ASN:HB3	9:Cw:74:GLN:NE2	2.35	0.41
10:Cx:52:HIS:O	10:Cx:53:ARG:C	2.62	0.41
1:A0:7:CYS:SG	1:A0:139:CYS:HA	2.60	0.41
3:A3:128:SER:O	3:A3:129:CYS:HB2	2.19	0.41
3:A7:96:HIS:CE1	5:B5:55:ARG:HH22	2.37	0.41
3:AA:19:TRP:O	3:AA:21:ASP:N	2.53	0.41
3:AA:122:VAL:C	3:AA:124:PRO:HD2	2.45	0.41
2:AD:17:VAL:HG13	2:AD:135:TRP:CZ2	2.55	0.41
3:AE:64:GLY:HA2	3:AE:67:LYS:HB2	2.02	0.41
3:AJ:64:GLY:HA2	3:AJ:67:LYS:HB2	2.02	0.41
2:AN:83:MET:SD	2:AN:93:GLN:CB	3.06	0.41
3:AO:122:VAL:C	3:AO:124:PRO:HD2	2.45	0.41
3:AP:63:SER:OG	3:AP:66:PHE:HB3	2.21	0.41
4:AQ:28:ALA:HA	4:AQ:31:GLN:HB2	2.02	0.41
2:AS:17:VAL:HG13	2:AS:135:TRP:CZ2	2.55	0.41
2:AS:19:LEU:O	2:AS:22:ALA:HB3	2.20	0.41
2:AS:49:ILE:C	2:AS:51:ALA:H	2.26	0.41
3:AT:50:LYS:HG2	3:AT:58:ILE:HD12	2.02	0.41
1:AW:7:CYS:SG	1:AW:139:CYS:HA	2.60	0.41
3:AY:50:LYS:HG2	3:AY:58:ILE:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Aa:123:ARG:CD	8:Cb:179:LEU:HD11	2.42	0.41
1:Ab:127:VAL:HG23	1:Ab:128:LEU:HG	2.02	0.41
2:Ac:79:ILE:O	2:Ac:83:MET:HB2	2.20	0.41
2:Ah:49:ILE:C	2:Ah:51:ALA:H	2.26	0.41
2:Ah:83:MET:CG	2:Ah:90:LEU:HA	2.48	0.41
3:Ai:102:ILE:HD11	3:Ai:149:ASP:C	2.44	0.41
3:Aj:49:SER:O	3:Aj:50:LYS:C	2.62	0.41
2:Am:8:GLU:HG2	2:Am:9:CYS:N	2.27	0.41
2:Am:79:ILE:O	2:Am:83:MET:HB2	2.20	0.41
3:An:64:GLY:HA2	3:An:67:LYS:HB2	2.02	0.41
3:An:102:ILE:CG1	3:An:150:LEU:HA	2.28	0.41
3:Ao:147:ALA:O	3:Ao:151:PRO:HD2	2.20	0.41
4:Ap:84:THR:O	4:Ap:85:LEU:C	2.63	0.41
2:Ar:83:MET:SD	2:Ar:93:GLN:CB	3.06	0.41
3:At:63:SER:OG	3:At:66:PHE:HB3	2.21	0.41
4:Au:28:ALA:HA	4:Au:31:GLN:HB2	2.02	0.41
1:Av:88:PRO:HG2	1:Av:89:PRO:CD	2.50	0.41
2:Aw:69:HIS:O	2:Aw:70:SER:C	2.63	0.41
2:Aw:83:MET:SD	2:Aw:93:GLN:CB	3.06	0.41
3:Ax:50:LYS:HG2	3:Ax:58:ILE:HD12	2.02	0.41
5:B0:111:PHE:HD1	5:B0:111:PHE:H	1.68	0.41
4:B3:101:ILE:HA	4:B3:102:PRO:HD3	1.47	0.41
6:B6:123:LEU:O	6:B6:127:LEU:HD23	2.20	0.41
4:B7:130:TRP:O	4:B7:131:ASP:C	2.61	0.41
7:BB:3:HIS:HB3	7:BB:4:GLU:H	1.63	0.41
7:BB:14:ILE:O	7:BB:15:VAL:C	2.62	0.41
7:BB:95:LEU:HD21	7:BB:143:ILE:HG23	2.01	0.41
4:BE:79:LEU:CA	4:BE:85:LEU:HD22	2.50	0.41
4:BF:70:GLY:O	4:BF:73:ASP:HB3	2.20	0.41
7:BG:70:HIS:O	7:BG:71:ALA:C	2.63	0.41
5:BH:14:SER:O	5:BH:15:LEU:C	2.64	0.41
4:BJ:73:ASP:O	4:BJ:74:ILE:C	2.62	0.41
5:BM:107:LYS:HE2	5:BM:110:PHE:CE2	2.55	0.41
6:BN:25:SER:OG	6:BN:27:PHE:HB2	2.20	0.41
5:BR:134:ALA:O	5:BR:138:CYS:HB2	2.20	0.41
7:BV:85:LEU:HA	7:BV:91:LEU:HD22	2.02	0.41
5:BW:31:ARG:O	5:BW:32:VAL:C	2.63	0.41
5:BW:111:PHE:HD1	5:BW:111:PHE:H	1.68	0.41
6:BX:22:VAL:CG2	6:BX:23:TRP:N	2.84	0.41
6:Bc:22:VAL:CG2	6:Bc:23:TRP:N	2.84	0.41
6:Bc:60:GLU:CB	6:Bc:63:SER:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Bc:123:LEU:O	6:Bc:127:LEU:HD23	2.20	0.41
7:Bf:14:ILE:O	7:Bf:15:VAL:C	2.62	0.41
7:Bf:109:GLN:O	7:Bf:112:HIS:HB2	2.20	0.41
5:Bl:14:SER:O	5:Bl:15:LEU:C	2.64	0.41
4:Bn:59:PRO:HB3	7:Cj:89:PRO:HB2	2.02	0.41
7:Bp:109:GLN:O	7:Bp:112:HIS:HB2	2.20	0.41
5:Bq:107:LYS:HE2	5:Bq:110:PHE:CE2	2.55	0.41
6:Br:25:SER:OG	6:Br:27:PHE:HB2	2.20	0.41
6:Br:63:SER:OG	6:Br:66:PHE:HB3	2.20	0.41
7:Bu:103:GLU:HB2	7:Bu:150:ARG:HG2	2.01	0.41
5:Bv:79:ILE:O	5:Bv:80:THR:C	2.61	0.41
8:C0:10:PHE:CZ	10:C2:10:HIS:CG	3.01	0.41
9:C1:77:ILE:HG22	9:C1:82:VAL:HB	2.01	0.41
5:C4:125:ARG:HG2	5:C4:125:ARG:NH1	2.35	0.41
8:CC:53:ARG:HA	8:CC:56:ASN:OD1	2.20	0.41
9:CD:19:PHE:C	9:CD:22:ILE:HG22	2.45	0.41
9:CD:24:LEU:HD21	10:CE:24:ILE:CG2	2.41	0.41
9:CD:24:LEU:CD2	10:CE:21:THR:HG23	2.51	0.41
9:CD:50:ILE:O	9:CD:51:ASP:C	2.64	0.41
9:CD:116:THR:HG22	9:CD:125:ASP:OD2	2.20	0.41
10:CE:52:HIS:O	10:CE:53:ARG:C	2.62	0.41
5:CG:84:LEU:HD12	5:CG:84:LEU:HA	1.86	0.41
8:CH:114:LEU:HD22	9:CI:73:GLU:HB3	2.02	0.41
9:CI:43:PRO:HD3	10:CJ:38:ARG:NE	2.36	0.41
9:CI:116:THR:HG22	9:CI:125:ASP:OD2	2.20	0.41
10:CJ:18:ILE:CG2	10:CJ:19:GLU:N	2.84	0.41
5:CL:31:ARG:HB3	5:CL:71:GLN:HE22	1.85	0.41
8:CM:105:THR:CG2	8:CM:145:VAL:HG11	2.51	0.41
8:CM:168:ARG:HG2	8:CM:169:GLY:H	1.86	0.41
9:CN:34:LYS:C	10:CO:35:LEU:HG	2.45	0.41
9:CN:43:PRO:HD3	10:CO:38:ARG:NE	2.36	0.41
9:CN:50:ILE:O	9:CN:51:ASP:C	2.64	0.41
10:CO:89:CYS:HB3	10:CO:92:GLY:H	1.83	0.41
8:CR:221:ASN:HB3	9:CS:74:GLN:NE2	2.35	0.41
9:CS:147:LEU:N	9:CS:147:LEU:CD2	2.83	0.41
7:CU:40:LEU:O	7:CU:43:LEU:HB3	2.21	0.41
8:CW:34:GLU:HA	8:CW:37:LYS:CD	2.50	0.41
8:CW:103:ASN:O	8:CW:106:HIS:HB2	2.20	0.41
8:CW:176:ARG:HB3	8:CW:176:ARG:HE	1.54	0.41
8:Cb:82:PHE:HD1	8:Cb:83:CYS:CA	2.29	0.41
8:Cg:53:ARG:HA	8:Cg:56:ASN:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:73:VAL:HA	8:Cg:74:PRO:HD3	1.71	0.41
8:Cg:221:ASN:HB3	9:Ch:74:GLN:NE2	2.35	0.41
9:Ch:19:PHE:C	9:Ch:22:ILE:HG22	2.45	0.41
9:Ch:24:LEU:CD2	10:Ci:21:THR:HG23	2.51	0.41
9:Ch:50:ILE:O	9:Ch:51:ASP:C	2.64	0.41
10:Ci:48:GLY:O	10:Ci:51:ARG:HB3	2.20	0.41
5:Ck:73:VAL:O	5:Ck:74:LEU:C	2.63	0.41
8:Cl:56:ASN:CB	8:Cl:198:LEU:O	2.67	0.41
9:Cm:43:PRO:HD3	10:Cn:38:ARG:NE	2.36	0.41
9:Cm:75:GLU:OE2	9:Cm:77:ILE:HD11	2.20	0.41
10:Cn:18:ILE:CG2	10:Cn:19:GLU:N	2.84	0.41
10:Cn:161:VAL:HG12	10:Cn:162:SER:N	2.34	0.41
8:Cq:105:THR:CG2	8:Cq:145:VAL:HG11	2.51	0.41
8:Cq:114:LEU:HD22	9:Cr:73:GLU:HB3	2.02	0.41
9:Cr:34:LYS:C	10:Cs:35:LEU:HG	2.45	0.41
9:Cr:43:PRO:HD3	10:Cs:38:ARG:NE	2.36	0.41
9:Cr:50:ILE:O	9:Cr:51:ASP:C	2.64	0.41
9:Cr:102:THR:HG23	9:Cr:103:SER:N	2.36	0.41
10:Cs:161:VAL:HG12	10:Cs:162:SER:N	2.34	0.41
8:Cv:114:LEU:HD22	9:Cw:73:GLU:HB3	2.02	0.41
8:Cv:131:THR:HG23	8:Cv:150:THR:OG1	2.20	0.41
9:Cw:147:LEU:N	9:Cw:147:LEU:CD2	2.83	0.41
10:Cx:94:ASP:N	10:Cx:94:ASP:OD1	2.53	0.41
10:Cx:100:LEU:HA	10:Cx:101:PRO:HD2	1.87	0.41
2:A1:125:ARG:HG2	2:A1:125:ARG:NH1	2.34	0.41
3:A2:63:SER:OG	3:A2:66:PHE:HB3	2.20	0.41
1:A5:127:VAL:HG23	1:A5:128:LEU:HG	2.02	0.41
3:AA:112:PHE:O	3:AA:115:ILE:HG22	2.20	0.41
4:AB:84:THR:O	4:AB:85:LEU:C	2.63	0.41
3:AE:102:ILE:HD11	3:AE:149:ASP:C	2.44	0.41
3:AF:49:SER:O	3:AF:50:LYS:C	2.62	0.41
4:AL:84:THR:O	4:AL:85:LEU:C	2.63	0.41
3:AO:145:ARG:HA	3:AO:148:LYS:HD3	2.03	0.41
1:AR:8:SER:O	1:AR:11:ASP:HB2	2.21	0.41
1:AR:88:PRO:HG2	1:AR:89:PRO:CD	2.50	0.41
2:AS:79:ILE:O	2:AS:80:THR:C	2.63	0.41
3:AT:122:VAL:C	3:AT:124:PRO:HD2	2.45	0.41
3:AU:19:TRP:O	3:AU:21:ASP:N	2.53	0.41
3:AY:63:SER:OG	3:AY:66:PHE:HB3	2.20	0.41
3:AY:112:PHE:C	3:AY:114:GLY:N	2.77	0.41
1:Ab:7:CYS:SG	1:Ab:139:CYS:HA	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Af:84:THR:O	4:Af:85:LEU:C	2.63	0.41
3:Ai:63:SER:OG	3:Ai:66:PHE:HB3	2.20	0.41
3:Aj:87:THR:HG22	7:Bk:134:LEU:HG	2.01	0.41
1:Al:127:VAL:HG23	1:Al:128:LEU:HG	2.02	0.41
1:Aq:8:SER:O	1:Aq:11:ASP:HB2	2.21	0.41
2:Ar:57:ARG:HG2	2:Ar:57:ARG:NH1	2.35	0.41
3:As:145:ARG:HA	3:As:148:LYS:HD3	2.03	0.41
1:Av:8:SER:O	1:Av:11:ASP:HB2	2.21	0.41
2:Aw:19:LEU:O	2:Aw:22:ALA:HB3	2.20	0.41
5:B0:79:ILE:O	5:B0:80:THR:C	2.61	0.41
7:BB:109:GLN:O	7:BB:112:HIS:HB2	2.20	0.41
5:BC:14:SER:O	5:BC:15:LEU:C	2.64	0.41
6:BD:112:PHE:C	6:BD:114:GLY:N	2.78	0.41
5:BH:107:LYS:HA	5:BH:108:PRO:HD3	1.61	0.41
5:BM:57:ARG:HG2	5:BM:57:ARG:NH1	2.36	0.41
6:BN:131:ASN:O	6:BN:132:VAL:C	2.64	0.41
4:BO:123:ARG:HD3	4:BO:123:ARG:N	2.36	0.41
5:BR:18:LYS:NZ	5:BR:82:SER:HA	2.35	0.41
6:BS:123:LEU:C	6:BS:125:GLN:H	2.28	0.41
4:BY:70:GLY:O	4:BY:73:ASP:HB3	2.21	0.41
6:Bh:19:TRP:O	6:Bh:21:ASP:N	2.53	0.41
6:Bh:112:PHE:C	6:Bh:114:GLY:N	2.78	0.41
4:Bi:39:ALA:CB	10:Ci:137:PHE:CZ	2.96	0.41
4:Bi:79:LEU:CA	4:Bi:85:LEU:HD22	2.50	0.41
4:Bj:70:GLY:O	4:Bj:73:ASP:HB3	2.20	0.41
7:Bk:70:HIS:O	7:Bk:71:ALA:C	2.63	0.41
7:Bk:109:GLN:O	7:Bk:112:HIS:HB2	2.20	0.41
5:Bl:49:ILE:C	5:Bl:51:ALA:H	2.27	0.41
7:Bp:3:HIS:HB3	7:Bp:4:GLU:H	1.63	0.41
6:Br:123:LEU:O	6:Br:127:LEU:HD23	2.20	0.41
6:Br:131:ASN:O	6:Br:132:VAL:C	2.64	0.41
4:Bs:123:ARG:HD3	4:Bs:123:ARG:N	2.36	0.41
8:C0:34:GLU:HA	8:C0:37:LYS:CD	2.50	0.41
8:C0:103:ASN:O	8:C0:106:HIS:HB2	2.20	0.41
9:C1:42:ASP:CG	10:C2:38:ARG:HH22	2.29	0.41
10:C2:102:THR:O	10:C2:102:THR:HG22	2.20	0.41
8:C5:53:ARG:HA	8:C5:56:ASN:OD1	2.20	0.41
9:C6:38:ALA:H	10:C7:35:LEU:HD11	1.82	0.41
9:C6:77:ILE:HG22	9:C6:82:VAL:HB	2.01	0.41
7:CF:85:LEU:HA	7:CF:91:LEU:HD22	2.02	0.41
5:CG:73:VAL:O	5:CG:74:LEU:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:75:GLU:OE2	9:CI:77:ILE:HD11	2.20	0.41
9:CI:77:ILE:HG21	9:CI:82:VAL:HB	2.03	0.41
10:CJ:198:ASP:HB3	10:CJ:220:ARG:HE	1.83	0.41
5:CL:84:LEU:HD12	5:CL:84:LEU:HA	1.86	0.41
8:CM:114:LEU:HD22	9:CN:73:GLU:HB3	2.02	0.41
9:CN:77:ILE:HG21	9:CN:82:VAL:HB	2.03	0.41
9:CN:102:THR:HG23	9:CN:103:SER:N	2.36	0.41
10:CO:161:VAL:HG12	10:CO:162:SER:N	2.34	0.41
8:CR:114:LEU:HD22	9:CS:73:GLU:HB3	2.02	0.41
8:CR:166:GLN:HB2	8:CR:183:LEU:HD21	2.03	0.41
9:CS:145:ILE:HB	9:CS:172:TYR:HB3	2.03	0.41
10:CT:94:ASP:N	10:CT:94:ASP:OD1	2.53	0.41
5:CV:14:SER:O	5:CV:17:VAL:N	2.53	0.41
9:CX:102:THR:HG23	9:CX:103:SER:N	2.36	0.41
9:CX:147:LEU:N	9:CX:147:LEU:CD2	2.83	0.41
9:CX:162:VAL:CG1	9:CX:163:THR:H	2.28	0.41
10:CY:102:THR:O	10:CY:102:THR:HG22	2.20	0.41
10:CY:198:ASP:HB3	10:CY:220:ARG:HE	1.83	0.41
8:Cb:53:ARG:HA	8:Cb:56:ASN:OD1	2.20	0.41
9:Cc:74:GLN:O	9:Cc:74:GLN:HG2	2.19	0.41
8:Cg:56:ASN:HA	8:Cg:199:GLY:CA	2.39	0.41
10:Ci:52:HIS:O	10:Ci:53:ARG:C	2.62	0.41
7:Cj:85:LEU:HA	7:Cj:91:LEU:HD22	2.02	0.41
8:Cl:82:PHE:HD1	8:Cl:83:CYS:CA	2.29	0.41
9:Cm:77:ILE:HG21	9:Cm:82:VAL:HB	2.03	0.41
8:Cq:168:ARG:HG2	8:Cq:169:GLY:H	1.86	0.41
10:Cs:89:CYS:HB3	10:Cs:92:GLY:H	1.83	0.41
8:Cv:166:GLN:HB2	8:Cv:183:LEU:HD21	2.03	0.41
9:Cw:145:ILE:HB	9:Cw:172:TYR:HB3	2.03	0.41
7:Cy:40:LEU:O	7:Cy:43:LEU:HB3	2.21	0.41
5:Cz:14:SER:O	5:Cz:17:VAL:N	2.53	0.41
3:A2:49:SER:HB3	3:A2:111:TYR:CD1	2.56	0.41
3:A3:50:LYS:HG2	3:A3:58:ILE:HD12	2.02	0.41
3:A3:129:CYS:SG	8:C5:212:SER:HA	2.60	0.41
1:A5:7:CYS:SG	1:A5:139:CYS:HA	2.60	0.41
3:AA:129:CYS:SG	8:CC:212:SER:HA	2.60	0.41
4:AB:4:CYS:SG	4:AB:136:HIS:CB	3.09	0.41
4:AB:7:LEU:C	4:AB:9:GLY:N	2.78	0.41
2:AD:79:ILE:O	2:AD:83:MET:HB2	2.20	0.41
2:AD:83:MET:CG	2:AD:90:LEU:HA	2.48	0.41
3:AE:63:SER:OG	3:AE:66:PHE:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AF:87:THR:HG22	7:BG:134:LEU:HG	2.01	0.41
3:AF:112:PHE:O	3:AF:115:ILE:HG22	2.20	0.41
1:AH:127:VAL:HG23	1:AH:128:LEU:HG	2.02	0.41
3:AK:112:PHE:O	3:AK:115:ILE:HG22	2.20	0.41
1:AM:8:SER:O	1:AM:11:ASP:HB2	2.21	0.41
2:AN:57:ARG:HG2	2:AN:57:ARG:NH1	2.35	0.41
3:AP:147:ALA:O	3:AP:151:PRO:HD2	2.20	0.41
2:AS:57:ARG:HG2	2:AS:57:ARG:NH1	2.35	0.41
2:AS:69:HIS:O	2:AS:70:SER:C	2.63	0.41
3:AU:83:LEU:HD21	3:AU:89:VAL:HG12	2.02	0.41
4:AV:28:ALA:HA	4:AV:31:GLN:HB2	2.03	0.41
4:AV:79:LEU:CD1	4:AV:85:LEU:CD2	2.98	0.41
3:AY:49:SER:HB3	3:AY:111:TYR:CD1	2.56	0.41
3:AZ:50:LYS:HG2	3:AZ:58:ILE:HD12	2.02	0.41
3:AZ:129:CYS:SG	8:Cb:212:SER:HA	2.60	0.41
3:Ad:50:LYS:HG2	3:Ad:58:ILE:HD12	2.02	0.41
3:Ae:19:TRP:O	3:Ae:21:ASP:N	2.53	0.41
3:Ae:129:CYS:SG	8:Cg:212:SER:HA	2.60	0.41
4:Af:4:CYS:SG	4:Af:136:HIS:CB	3.09	0.41
4:Af:7:LEU:C	4:Af:9:GLY:N	2.78	0.41
3:Ai:64:GLY:HA2	3:Ai:67:LYS:HB2	2.02	0.41
3:Ao:112:PHE:O	3:Ao:115:ILE:HG22	2.20	0.41
3:At:147:ALA:O	3:At:151:PRO:HD2	2.20	0.41
3:Ax:5:ASP:HB2	3:Ax:6:CYS:H	1.75	0.41
3:Ax:122:VAL:C	3:Ax:124:PRO:HD2	2.45	0.41
3:Ay:23:TRP:CH2	3:Ay:74:ALA:HB1	2.55	0.41
4:Az:28:ALA:HA	4:Az:31:GLN:HB2	2.03	0.41
4:B2:70:GLY:O	4:B2:73:ASP:HB3	2.21	0.41
5:BC:125:ARG:HG2	5:BC:125:ARG:NH1	2.36	0.41
6:BD:19:TRP:O	6:BD:21:ASP:N	2.53	0.41
7:BG:109:GLN:O	7:BG:112:HIS:HB2	2.20	0.41
4:BJ:59:PRO:HB3	7:CF:89:PRO:HB2	2.02	0.41
5:BM:79:ILE:O	5:BM:80:THR:C	2.61	0.41
5:BM:111:PHE:H	5:BM:111:PHE:HD1	1.69	0.41
6:BN:63:SER:OG	6:BN:66:PHE:HB3	2.20	0.41
6:BN:123:LEU:C	6:BN:125:GLN:H	2.28	0.41
6:BN:123:LEU:O	6:BN:127:LEU:HD23	2.20	0.41
4:BO:59:PRO:HB3	7:CK:89:PRO:HB2	2.02	0.41
7:BQ:40:LEU:HD22	7:BQ:54:PHE:CE2	2.56	0.41
5:BR:12:THR:C	5:BR:14:SER:N	2.79	0.41
5:BR:19:LEU:O	5:BR:22:ALA:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:BT:130:TRP:O	4:BT:131:ASP:C	2.61	0.41
7:BV:120:LEU:O	7:BV:124:LEU:HG	2.21	0.41
4:BZ:24:HIS:O	4:BZ:25:ASP:C	2.61	0.41
7:Ba:109:GLN:O	7:Ba:112:HIS:HB2	2.20	0.41
4:Be:123:ARG:HD3	4:Be:123:ARG:N	2.34	0.41
5:Bg:14:SER:O	5:Bg:15:LEU:C	2.64	0.41
4:Bi:123:ARG:HD3	4:Bi:123:ARG:N	2.36	0.41
6:Bm:88:LEU:HD23	6:Bm:88:LEU:HA	1.92	0.41
7:Bp:150:ARG:HH11	7:Bp:150:ARG:HD2	1.69	0.41
5:Bq:57:ARG:HG2	5:Bq:57:ARG:NH1	2.36	0.41
5:Bq:79:ILE:O	5:Bq:80:THR:C	2.61	0.41
4:Bt:75:ALA:HB1	4:Bt:137:ILE:HD13	2.01	0.41
7:Bu:40:LEU:HD22	7:Bu:54:PHE:CE2	2.56	0.41
5:Bv:18:LYS:NZ	5:Bv:82:SER:HA	2.35	0.41
6:Bw:123:LEU:C	6:Bw:125:GLN:H	2.28	0.41
4:Bx:123:ARG:HD3	4:Bx:123:ARG:N	2.36	0.41
4:Bx:130:TRP:O	4:Bx:131:ASP:C	2.61	0.41
4:By:58:HIS:CE1	4:By:59:PRO:HG2	2.56	0.41
7:Bz:120:LEU:O	7:Bz:124:LEU:HG	2.21	0.41
8:C0:128:ALA:C	8:C0:129:ILE:HG13	2.46	0.41
9:C1:102:THR:HG23	9:C1:103:SER:N	2.36	0.41
9:C1:145:ILE:HB	9:C1:172:TYR:HB3	2.03	0.41
9:C1:147:LEU:N	9:C1:147:LEU:CD2	2.83	0.41
9:C1:162:VAL:CG1	9:C1:163:THR:H	2.28	0.41
8:C5:35:TYR:OH	10:C7:34:LEU:HB3	2.15	0.41
8:C5:103:ASN:O	8:C5:106:HIS:HB2	2.20	0.41
9:C6:42:ASP:CG	10:C7:38:ARG:HH22	2.29	0.41
7:CA:23:TRP:HZ3	7:CA:31:ILE:HG21	1.86	0.41
7:CA:74:ILE:CG2	7:CA:75:LEU:N	2.82	0.41
5:CB:79:ILE:O	5:CB:80:THR:C	2.63	0.41
5:CB:84:LEU:HD12	5:CB:84:LEU:HA	1.86	0.41
9:CD:157:ARG:HH11	9:CD:157:ARG:HD3	1.66	0.41
10:CE:69:CYS:CB	10:CE:89:CYS:HG	2.33	0.41
8:CH:28:LEU:HD21	10:CJ:27:SER:CB	2.51	0.41
8:CH:82:PHE:HD1	8:CH:83:CYS:CA	2.29	0.41
8:CH:117:TRP:CB	8:CH:121:GLU:H	2.32	0.41
9:CI:209:ARG:HD2	9:CI:209:ARG:HA	1.78	0.41
5:CL:111:PHE:H	5:CL:111:PHE:HD1	1.68	0.41
8:CM:145:VAL:H	8:CM:145:VAL:HG22	1.54	0.41
8:CM:176:ARG:HB3	8:CM:176:ARG:HE	1.55	0.41
5:CQ:34:PHE:CD1	5:CQ:34:PHE:C	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CR:176:ARG:HB2	8:CR:196:PHE:CB	2.50	0.41
9:CS:138:ARG:CB	9:CS:141:PHE:CD2	2.99	0.41
8:CW:128:ALA:C	8:CW:129:ILE:HG13	2.46	0.41
9:CX:42:ASP:CG	10:CY:38:ARG:HH22	2.29	0.41
8:Cb:103:ASN:O	8:Cb:106:HIS:HB2	2.20	0.41
10:Cd:179:HIS:HA	10:Cd:180:PRO:HD3	1.57	0.41
7:Ce:23:TRP:HZ3	7:Ce:31:ILE:HG21	1.86	0.41
5:Cf:14:SER:O	5:Cf:17:VAL:N	2.53	0.41
8:Cg:80:LEU:HD13	8:Cg:80:LEU:HA	1.85	0.41
8:Cg:101:SER:HB2	8:Cg:104:ILE:CG1	2.25	0.41
5:Ck:125:ARG:HG2	5:Ck:125:ARG:NH1	2.35	0.41
8:Cl:42:VAL:HG23	8:Cl:46:THR:HG1	1.81	0.41
8:Cl:117:TRP:CB	8:Cl:121:GLU:H	2.32	0.41
7:Co:85:LEU:HA	7:Co:91:LEU:HD22	2.02	0.41
5:Cp:111:PHE:H	5:Cp:111:PHE:HD1	1.68	0.41
8:Cq:11:GLN:HE21	8:Cq:11:GLN:HB3	1.49	0.41
9:Cr:77:ILE:HG21	9:Cr:82:VAL:HB	2.03	0.41
9:Cr:138:ARG:CB	9:Cr:141:PHE:CD2	2.99	0.41
3:A3:112:PHE:O	3:A3:115:ILE:HG22	2.20	0.41
4:A4:70:GLY:O	4:A4:73:ASP:HB3	2.21	0.41
2:A6:69:HIS:O	2:A6:70:SER:C	2.63	0.41
3:AA:144:ALA:O	3:AA:148:LYS:HG2	2.20	0.41
1:AC:20:ASP:C	1:AC:22:LEU:N	2.78	0.41
4:AG:79:LEU:CD1	4:AG:85:LEU:CD2	2.98	0.41
2:AI:12:THR:C	2:AI:14:SER:N	2.79	0.41
3:AK:144:ALA:O	3:AK:148:LYS:HG2	2.20	0.41
2:AN:79:ILE:O	2:AN:80:THR:C	2.63	0.41
3:AO:49:SER:HB3	3:AO:111:TYR:CD1	2.56	0.41
3:AT:145:ARG:HA	3:AT:148:LYS:HD3	2.03	0.41
4:AV:7:LEU:C	4:AV:9:GLY:N	2.78	0.41
4:AV:123:ARG:CD	8:CW:179:LEU:HD11	2.42	0.41
4:Aa:70:GLY:O	4:Aa:73:ASP:HB3	2.21	0.41
2:Ac:69:HIS:O	2:Ac:70:SER:C	2.63	0.41
3:Ae:112:PHE:O	3:Ae:115:ILE:HG22	2.20	0.41
3:Ae:147:ALA:O	3:Ae:151:PRO:HD2	2.20	0.41
2:Ah:19:LEU:O	2:Ah:22:ALA:HB3	2.20	0.41
3:Aj:88:LEU:HD23	3:Aj:88:LEU:HA	1.93	0.41
2:Am:12:THR:C	2:Am:14:SER:N	2.79	0.41
4:Ap:105:TYR:O	4:Ap:106:PHE:C	2.64	0.41
3:As:49:SER:HB3	3:As:111:TYR:CD1	2.56	0.41
3:As:123:LEU:C	3:As:125:GLN:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Aw:57:ARG:HG2	2:Aw:57:ARG:NH1	2.35	0.41
2:Aw:79:ILE:O	2:Aw:80:THR:C	2.63	0.41
3:Ax:145:ARG:HA	3:Ax:148:LYS:HD3	2.03	0.41
3:Ay:83:LEU:HD21	3:Ay:89:VAL:HG12	2.02	0.41
4:Az:7:LEU:C	4:Az:9:GLY:N	2.78	0.41
4:Az:79:LEU:CD1	4:Az:85:LEU:CD2	2.98	0.41
5:B0:19:LEU:O	5:B0:22:ALA:HB3	2.20	0.41
4:B2:134:ILE:HD13	4:B2:134:ILE:HA	1.97	0.41
7:B4:120:LEU:O	7:B4:124:LEU:HG	2.21	0.41
6:B6:122:VAL:C	6:B6:124:PRO:HD2	2.46	0.41
4:BA:123:ARG:HD3	4:BA:123:ARG:N	2.34	0.41
6:BD:123:LEU:C	6:BD:125:GLN:H	2.28	0.41
4:BE:39:ALA:CB	10:CE:137:PHE:CZ	2.96	0.41
4:BE:79:LEU:HA	4:BE:85:LEU:HD22	2.01	0.41
4:BE:123:ARG:HD3	4:BE:123:ARG:N	2.36	0.41
7:BG:150:ARG:HH11	7:BG:150:ARG:HD2	1.69	0.41
6:BI:50:LYS:HG2	6:BI:58:ILE:HD12	2.03	0.41
4:BK:48:PHE:CD1	4:BK:48:PHE:N	2.89	0.41
4:BP:75:ALA:HB1	4:BP:137:ILE:HD13	2.01	0.41
7:BQ:85:LEU:HA	7:BQ:91:LEU:HD22	2.03	0.41
5:BR:57:ARG:HG2	5:BR:57:ARG:NH1	2.36	0.41
6:BS:63:SER:OG	6:BS:66:PHE:HB3	2.20	0.41
6:BS:71:VAL:HB	5:CQ:83:MET:CE	2.46	0.41
4:BT:123:ARG:HD3	4:BT:123:ARG:N	2.36	0.41
4:BU:58:HIS:CE1	4:BU:59:PRO:HG2	2.56	0.41
5:BW:19:LEU:O	5:BW:22:ALA:HB3	2.20	0.41
6:BX:25:SER:OG	6:BX:27:PHE:HB2	2.20	0.41
4:BY:134:ILE:HD13	4:BY:134:ILE:HA	1.97	0.41
7:Ba:120:LEU:O	7:Ba:124:LEU:HG	2.21	0.41
6:Bc:122:VAL:C	6:Bc:124:PRO:HD2	2.46	0.41
5:Bg:125:ARG:HG2	5:Bg:125:ARG:NH1	2.36	0.41
6:Bh:49:SER:O	6:Bh:50:LYS:C	2.64	0.41
6:Bh:123:LEU:C	6:Bh:125:GLN:H	2.28	0.41
4:Bi:79:LEU:HA	4:Bi:85:LEU:HD22	2.01	0.41
6:Bm:50:LYS:HG2	6:Bm:58:ILE:HD12	2.03	0.41
4:Bn:70:GLY:O	4:Bn:73:ASP:HB3	2.21	0.41
4:Bo:48:PHE:CD1	4:Bo:48:PHE:N	2.89	0.41
5:Bq:111:PHE:H	5:Bq:111:PHE:HD1	1.69	0.41
6:Br:123:LEU:C	6:Br:125:GLN:H	2.28	0.41
4:Bs:70:GLY:O	4:Bs:73:ASP:HB3	2.21	0.41
4:Bs:81:GLN:HA	4:Bs:82:PRO:HD2	1.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Bu:85:LEU:HA	7:Bu:91:LEU:HD22	2.03	0.41
5:Bv:12:THR:C	5:Bv:14:SER:N	2.79	0.41
5:Bv:19:LEU:O	5:Bv:22:ALA:HB3	2.20	0.41
5:Bv:57:ARG:HG2	5:Bv:57:ARG:NH1	2.36	0.41
6:Bw:63:SER:OG	6:Bw:66:PHE:HB3	2.20	0.41
8:C0:82:PHE:HA	8:C0:83:CYS:HA	1.65	0.41
8:C0:166:GLN:HB2	8:C0:183:LEU:HD21	2.03	0.41
5:CB:14:SER:O	5:CB:17:VAL:N	2.53	0.41
9:CD:49:GLU:O	9:CD:53:ARG:HB2	2.21	0.41
7:CF:9:GLU:HG3	9:CI:119:GLY:C	2.46	0.41
8:CH:53:ARG:HA	8:CH:56:ASN:OD1	2.20	0.41
9:CI:91:ASN:HB3	9:CI:92:ALA:HA	2.03	0.41
9:CI:180:ILE:HG22	9:CI:182:LEU:HD13	2.02	0.41
8:CM:166:GLN:HB2	8:CM:183:LEU:HD21	2.03	0.41
7:CP:40:LEU:O	7:CP:43:LEU:HB3	2.21	0.41
5:CQ:83:MET:HG3	5:CQ:93:GLN:CB	2.51	0.41
8:CR:28:LEU:HD21	10:CT:27:SER:CB	2.51	0.41
9:CS:38:ALA:H	10:CT:35:LEU:HD11	1.82	0.41
5:CV:107:LYS:HA	5:CV:108:PRO:HD2	1.49	0.41
8:CW:166:GLN:HB2	8:CW:183:LEU:HD21	2.03	0.41
9:CX:31:LEU:CD1	10:CY:28:ILE:C	2.89	0.41
9:CX:138:ARG:CB	9:CX:141:PHE:CD2	2.99	0.41
9:CX:145:ILE:HB	9:CX:172:TYR:HB3	2.03	0.41
9:Cc:28:ILE:CD1	10:Cd:24:ILE:HD11	2.49	0.41
9:Cc:42:ASP:CG	10:Cd:38:ARG:HH22	2.29	0.41
9:Cc:77:ILE:HG22	9:Cc:82:VAL:HB	2.01	0.41
7:Ce:40:LEU:HD23	7:Ce:40:LEU:HA	1.91	0.41
9:Ch:28:ILE:CD1	10:Ci:28:ILE:HD11	2.51	0.41
9:Ch:49:GLU:O	9:Ch:53:ARG:HB2	2.21	0.41
7:Cj:9:GLU:HG3	9:Cm:119:GLY:C	2.46	0.41
8:Cl:28:LEU:HD21	10:Cn:27:SER:CB	2.51	0.41
8:Cl:130:VAL:O	8:Cl:130:VAL:CG1	2.69	0.41
8:Cl:145:VAL:H	8:Cl:145:VAL:HG22	1.54	0.41
10:Cn:198:ASP:HB3	10:Cn:220:ARG:HE	1.83	0.41
8:Cq:166:GLN:HB2	8:Cq:183:LEU:HD21	2.03	0.41
5:Cu:34:PHE:CD1	5:Cu:34:PHE:C	2.99	0.41
8:Cv:28:LEU:HD21	10:Cx:27:SER:CB	2.51	0.41
10:Cx:198:ASP:HB3	10:Cx:220:ARG:HE	1.83	0.41
1:A0:8:SER:O	1:A0:11:ASP:HB2	2.21	0.41
2:A1:132:PHE:O	2:A1:133:GLY:C	2.64	0.41
3:A3:97:LEU:HD23	3:A3:146:ILE:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:131:ASN:O	3:A3:132:VAL:C	2.64	0.41
2:A6:57:ARG:HG2	2:A6:57:ARG:NH1	2.35	0.41
3:A7:50:LYS:HG2	3:A7:58:ILE:HD12	2.02	0.41
3:AA:23:TRP:CH2	3:AA:74:ALA:HB1	2.55	0.41
3:AA:69:HIS:O	3:AA:70:LEU:C	2.64	0.41
3:AA:147:ALA:O	3:AA:151:PRO:HD2	2.20	0.41
4:AB:28:ALA:HA	4:AB:31:GLN:HB2	2.02	0.41
4:AB:70:GLY:O	4:AB:73:ASP:HB3	2.21	0.41
1:AC:53:LEU:HD21	1:AC:107:GLY:HA3	2.03	0.41
1:AC:95:LEU:HD21	1:AC:143:ILE:HG23	2.02	0.41
2:AD:19:LEU:O	2:AD:22:ALA:HB3	2.20	0.41
2:AD:69:HIS:O	2:AD:70:SER:C	2.63	0.41
4:AG:84:THR:O	4:AG:85:LEU:C	2.63	0.41
1:AH:8:SER:O	1:AH:11:ASP:HB2	2.21	0.41
1:AH:70:HIS:O	1:AH:71:ALA:C	2.64	0.41
1:AH:95:LEU:HD21	1:AH:143:ILE:HG23	2.02	0.41
1:AH:103:GLU:HA	1:AH:151:LEU:OXT	2.21	0.41
2:AI:8:GLU:HG2	2:AI:9:CYS:N	2.27	0.41
3:AJ:145:ARG:HA	3:AJ:148:LYS:HD3	2.03	0.41
4:AL:105:TYR:O	4:AL:106:PHE:C	2.64	0.41
1:AM:53:LEU:HD21	1:AM:107:GLY:HA3	2.03	0.41
3:AO:64:GLY:HA2	3:AO:67:LYS:HB2	2.02	0.41
3:AO:80:LEU:HD22	3:AO:94:LEU:HD13	2.03	0.41
3:AO:102:ILE:HG12	3:AO:150:LEU:CG	2.50	0.41
3:AO:123:LEU:C	3:AO:125:GLN:H	2.29	0.41
3:AP:112:PHE:O	3:AP:115:ILE:HG22	2.20	0.41
4:AQ:79:LEU:HA	4:AQ:85:LEU:HD13	2.03	0.41
1:AR:103:GLU:HA	1:AR:151:LEU:OXT	2.21	0.41
2:AS:83:MET:SD	2:AS:93:GLN:CB	3.06	0.41
3:AT:5:ASP:HB2	3:AT:6:CYS:H	1.75	0.41
3:AU:23:TRP:CH2	3:AU:74:ALA:HB1	2.55	0.41
3:AU:50:LYS:HG2	3:AU:58:ILE:HD12	2.02	0.41
3:AU:63:SER:OG	3:AU:66:PHE:HB3	2.21	0.41
4:AV:8:GLU:O	4:AV:12:VAL:HG23	2.20	0.41
4:AV:81:GLN:HA	4:AV:82:PRO:HD2	1.83	0.41
1:AW:8:SER:O	1:AW:11:ASP:HB2	2.21	0.41
2:AX:132:PHE:O	2:AX:133:GLY:C	2.64	0.41
3:AZ:97:LEU:HD23	3:AZ:146:ILE:CD1	2.50	0.41
3:AZ:112:PHE:O	3:AZ:115:ILE:HG22	2.20	0.41
3:AZ:131:ASN:O	3:AZ:132:VAL:C	2.64	0.41
1:Ab:40:LEU:O	1:Ab:43:LEU:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ab:103:GLU:HA	1:Ab:151:LEU:OXT	2.21	0.41
3:Ae:69:HIS:O	3:Ae:70:LEU:C	2.64	0.41
3:Ae:144:ALA:O	3:Ae:148:LYS:HG2	2.20	0.41
4:Af:28:ALA:HA	4:Af:31:GLN:HB2	2.02	0.41
4:Af:70:GLY:O	4:Af:73:ASP:HB3	2.21	0.41
1:Ag:53:LEU:HD21	1:Ag:107:GLY:HA3	2.03	0.41
2:Ah:69:HIS:O	2:Ah:70:SER:C	2.63	0.41
2:Ah:79:ILE:O	2:Ah:83:MET:HB2	2.20	0.41
3:Ai:49:SER:HB3	3:Ai:111:TYR:CD1	2.56	0.41
3:Aj:112:PHE:O	3:Aj:115:ILE:HG22	2.20	0.41
4:Ak:79:LEU:CD1	4:Ak:85:LEU:CD2	2.98	0.41
4:Ak:84:THR:O	4:Ak:85:LEU:C	2.63	0.41
1:Al:8:SER:O	1:Al:11:ASP:HB2	2.21	0.41
1:Al:70:HIS:O	1:Al:71:ALA:C	2.64	0.41
3:An:94:LEU:HD12	3:An:94:LEU:HA	1.84	0.41
3:An:145:ARG:HA	3:An:148:LYS:HD3	2.03	0.41
3:Ao:63:SER:OG	3:Ao:66:PHE:HB3	2.21	0.41
3:Ao:144:ALA:O	3:Ao:148:LYS:HG2	2.20	0.41
4:Ap:4:CYS:SG	4:Ap:136:HIS:CB	3.09	0.41
1:Aq:53:LEU:HD21	1:Aq:107:GLY:HA3	2.03	0.41
2:Ar:19:LEU:O	2:Ar:22:ALA:HB3	2.20	0.41
2:Ar:79:ILE:O	2:Ar:80:THR:C	2.63	0.41
3:As:64:GLY:HA2	3:As:67:LYS:HB2	2.02	0.41
3:As:80:LEU:HD22	3:As:94:LEU:HD13	2.03	0.41
3:As:102:ILE:HG12	3:As:150:LEU:CG	2.50	0.41
3:As:112:PHE:C	3:As:114:GLY:N	2.77	0.41
4:Au:7:LEU:C	4:Au:9:GLY:N	2.78	0.41
4:Au:79:LEU:HA	4:Au:85:LEU:HD13	2.03	0.41
4:Au:81:GLN:HA	4:Au:82:PRO:HD2	1.83	0.41
1:Av:103:GLU:HA	1:Av:151:LEU:OXT	2.21	0.41
3:Ax:112:PHE:C	3:Ax:114:GLY:N	2.77	0.41
3:Ay:50:LYS:HG2	3:Ay:58:ILE:HD12	2.02	0.41
3:Ay:63:SER:OG	3:Ay:66:PHE:HB3	2.21	0.41
5:B0:14:SER:O	5:B0:15:LEU:C	2.64	0.41
6:B1:25:SER:OG	6:B1:27:PHE:HB2	2.20	0.41
6:B1:71:VAL:CG2	5:Cz:89:MET:CE	2.99	0.41
6:B1:122:VAL:C	6:B1:124:PRO:HD2	2.46	0.41
4:B2:81:GLN:HA	4:B2:82:PRO:HD2	1.64	0.41
4:B3:24:HIS:O	4:B3:25:ASP:C	2.61	0.41
4:B3:58:HIS:CE1	4:B3:59:PRO:HG2	2.56	0.41
7:B4:109:GLN:O	7:B4:112:HIS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B5:25:PHE:CE2	5:B5:31:ARG:NE	2.89	0.41
6:B6:123:LEU:C	6:B6:125:GLN:H	2.28	0.41
4:B7:70:GLY:O	4:B7:73:ASP:HB3	2.21	0.41
4:BA:127:ARG:O	4:BA:128:GLU:C	2.64	0.41
7:BB:120:LEU:O	7:BB:124:LEU:HG	2.21	0.41
6:BD:49:SER:O	6:BD:50:LYS:C	2.64	0.41
6:BD:50:LYS:HG2	6:BD:58:ILE:HD12	2.03	0.41
4:BE:6:VAL:CG1	4:BE:7:LEU:N	2.83	0.41
4:BE:70:GLY:O	4:BE:73:ASP:HB3	2.21	0.41
4:BF:75:ALA:HB1	4:BF:137:ILE:HD13	2.01	0.41
4:BF:111:THR:O	4:BF:112:ALA:C	2.64	0.41
5:BH:19:LEU:O	5:BH:22:ALA:HB3	2.20	0.41
6:BI:49:SER:O	6:BI:50:LYS:C	2.64	0.41
6:BI:63:SER:OG	6:BI:66:PHE:HB3	2.20	0.41
4:BJ:70:GLY:O	4:BJ:73:ASP:HB3	2.21	0.41
4:BK:58:HIS:CE1	4:BK:59:PRO:HG2	2.56	0.41
4:BK:134:ILE:HD13	4:BK:134:ILE:HA	1.97	0.41
7:BL:14:ILE:O	7:BL:15:VAL:C	2.62	0.41
7:BL:40:LEU:HD22	7:BL:54:PHE:CE2	2.56	0.41
7:BL:63:GLU:H	7:BL:63:GLU:CD	2.28	0.41
7:BL:70:HIS:O	7:BL:71:ALA:C	2.63	0.41
4:BO:70:GLY:O	4:BO:73:ASP:HB3	2.21	0.41
5:BR:111:PHE:H	5:BR:111:PHE:HD1	1.68	0.41
6:BS:112:PHE:C	6:BS:114:GLY:N	2.78	0.41
6:BX:71:VAL:CG2	5:CV:89:MET:CE	2.99	0.41
6:BX:122:VAL:C	6:BX:124:PRO:HD2	2.46	0.41
4:BZ:58:HIS:CE1	4:BZ:59:PRO:HG2	2.56	0.41
5:Bb:25:PHE:CE2	5:Bb:31:ARG:NE	2.89	0.41
6:Bc:123:LEU:C	6:Bc:125:GLN:H	2.28	0.41
4:Bd:70:GLY:O	4:Bd:73:ASP:HB3	2.21	0.41
4:Be:127:ARG:O	4:Be:128:GLU:C	2.64	0.41
7:Bf:120:LEU:O	7:Bf:124:LEU:HG	2.21	0.41
6:Bh:22:VAL:CG2	6:Bh:23:TRP:N	2.84	0.41
6:Bh:50:LYS:HG2	6:Bh:58:ILE:HD12	2.03	0.41
4:Bi:70:GLY:O	4:Bi:73:ASP:HB3	2.21	0.41
4:Bj:75:ALA:HB1	4:Bj:137:ILE:HD13	2.01	0.41
4:Bj:111:THR:O	4:Bj:112:ALA:C	2.64	0.41
5:Bl:19:LEU:O	5:Bl:22:ALA:HB3	2.20	0.41
6:Bm:49:SER:O	6:Bm:50:LYS:C	2.64	0.41
4:Bo:58:HIS:CE1	4:Bo:59:PRO:HG2	2.56	0.41
7:Bp:40:LEU:HD22	7:Bp:54:PHE:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Bp:63:GLU:H	7:Bp:63:GLU:CD	2.28	0.41
7:Bp:70:HIS:O	7:Bp:71:ALA:C	2.63	0.41
4:Bs:59:PRO:HB3	7:Co:89:PRO:HB2	2.02	0.41
4:Bs:81:GLN:H	4:Bs:81:GLN:HG3	1.47	0.41
5:Bv:31:ARG:O	5:Bv:32:VAL:C	2.63	0.41
5:Bv:111:PHE:H	5:Bv:111:PHE:HD1	1.68	0.41
6:Bw:71:VAL:HB	5:Cu:83:MET:CE	2.46	0.41
6:Bw:112:PHE:C	6:Bw:114:GLY:N	2.78	0.41
8:C0:53:ARG:HA	8:C0:56:ASN:OD1	2.20	0.41
8:C0:70:ARG:HA	8:C0:70:ARG:NH1	2.36	0.41
8:C0:82:PHE:HD1	8:C0:83:CYS:CA	2.29	0.41
8:C0:172:ASN:ND2	8:C0:174:GLY:H	2.18	0.41
9:C1:91:ASN:HB3	9:C1:92:ALA:HA	2.03	0.41
10:C2:61:SER:HB2	10:C2:68:GLN:HE21	1.86	0.41
10:C2:77:ILE:C	10:C2:77:ILE:CD1	2.94	0.41
10:C2:94:ASP:OD1	10:C2:94:ASP:N	2.53	0.41
10:C2:198:ASP:HB3	10:C2:220:ARG:HE	1.83	0.41
5:C4:34:PHE:CD1	5:C4:34:PHE:C	2.99	0.41
5:C4:111:PHE:HB3	5:C4:143:ILE:CG2	2.51	0.41
8:C5:28:LEU:HD21	10:C7:27:SER:CB	2.50	0.41
8:C5:184:LYS:C	8:C5:186:GLN:H	2.23	0.41
9:C6:11:ASP:N	9:C6:12:PRO:CD	2.84	0.41
9:C6:19:PHE:C	9:C6:22:ILE:HG22	2.45	0.41
9:C6:19:PHE:HA	9:C6:22:ILE:HG22	2.03	0.41
9:C6:43:PRO:C	9:C6:45:HIS:N	2.79	0.41
10:C7:78:SER:O	10:C7:81:PHE:CB	2.69	0.41
8:CC:18:ASN:CA	10:CE:16:LYS:HZ3	2.34	0.41
8:CC:173:PHE:HD1	8:CC:173:PHE:HA	1.10	0.41
9:CD:28:ILE:CD1	10:CE:28:ILE:HD11	2.51	0.41
9:CD:42:ASP:HA	9:CD:43:PRO:HD2	1.73	0.41
9:CD:77:ILE:HG22	9:CD:82:VAL:HB	2.01	0.41
9:CD:140:PHE:CB	9:CD:141:PHE:HA	2.45	0.41
9:CD:147:LEU:N	9:CD:147:LEU:CD2	2.83	0.41
10:CE:78:SER:O	10:CE:81:PHE:CB	2.69	0.41
10:CE:94:ASP:OD1	10:CE:94:ASP:N	2.53	0.41
7:CF:40:LEU:O	7:CF:43:LEU:HB3	2.21	0.41
5:CG:83:MET:HG3	5:CG:93:GLN:CB	2.51	0.41
8:CH:130:VAL:O	8:CH:130:VAL:CG1	2.69	0.41
8:CH:172:ASN:ND2	8:CH:174:GLY:H	2.18	0.41
9:CI:42:ASP:HA	9:CI:43:PRO:HD2	1.73	0.41
10:CJ:61:SER:HB2	10:CJ:68:GLN:HE21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:78:SER:C	10:CJ:81:PHE:HB2	2.46	0.41
10:CJ:109:ILE:HD13	10:CJ:109:ILE:HA	1.92	0.41
7:CK:85:LEU:HA	7:CK:91:LEU:HD22	2.02	0.41
8:CM:184:LYS:HG3	8:CM:185:GLY:CA	2.51	0.41
9:CN:34:LYS:O	10:CO:35:LEU:CG	2.60	0.41
10:CO:18:ILE:CG2	10:CO:19:GLU:N	2.84	0.41
10:CO:115:ASP:OD2	10:CO:121:ARG:HA	2.21	0.41
8:CR:43:ASP:O	8:CR:45:LYS:C	2.63	0.41
8:CR:128:ALA:C	8:CR:129:ILE:HG13	2.46	0.41
9:CS:19:PHE:C	9:CS:22:ILE:HG22	2.45	0.41
9:CS:75:GLU:OE2	9:CS:77:ILE:HD11	2.20	0.41
9:CS:77:ILE:HG21	9:CS:82:VAL:HB	2.03	0.41
10:CT:78:SER:C	10:CT:81:PHE:HB2	2.46	0.41
10:CT:198:ASP:HB3	10:CT:220:ARG:HE	1.83	0.41
5:CV:86:THR:HA	5:CV:87:PRO:HD2	1.87	0.41
8:CW:49:GLN:HE21	8:CW:49:GLN:HB2	1.65	0.41
8:CW:53:ARG:HA	8:CW:56:ASN:OD1	2.20	0.41
8:CW:70:ARG:HA	8:CW:70:ARG:NH1	2.36	0.41
8:CW:82:PHE:HD1	8:CW:83:CYS:CA	2.29	0.41
8:CW:172:ASN:ND2	8:CW:174:GLY:H	2.18	0.41
9:CX:91:ASN:HB3	9:CX:92:ALA:HA	2.03	0.41
10:CY:61:SER:HB2	10:CY:68:GLN:HE21	1.86	0.41
10:CY:77:ILE:C	10:CY:77:ILE:CD1	2.94	0.41
5:Ca:34:PHE:CD1	5:Ca:34:PHE:C	2.99	0.41
5:Ca:111:PHE:HB3	5:Ca:143:ILE:CG2	2.51	0.41
9:Cc:11:ASP:N	9:Cc:12:PRO:CD	2.84	0.41
9:Cc:19:PHE:C	9:Cc:22:ILE:HG22	2.45	0.41
9:Cc:19:PHE:HA	9:Cc:22:ILE:HG22	2.03	0.41
9:Cc:43:PRO:C	9:Cc:45:HIS:N	2.79	0.41
9:Cc:123:ARG:HE	9:Cc:123:ARG:HB2	1.50	0.41
10:Cd:78:SER:O	10:Cd:81:PHE:CB	2.69	0.41
10:Cd:100:LEU:H	10:Cd:100:LEU:HG	1.60	0.41
10:Cd:197:PHE:HB3	10:Cd:199:ARG:CB	2.37	0.41
7:Ce:40:LEU:O	7:Ce:43:LEU:HB3	2.21	0.41
5:Cf:84:LEU:HD12	5:Cf:84:LEU:HA	1.86	0.41
9:Ch:42:ASP:CG	10:Ci:38:ARG:HH22	2.29	0.41
9:Ch:66:THR:HG22	9:Ch:67:PHE:N	2.36	0.41
9:Ch:77:ILE:HG22	9:Ch:82:VAL:HB	2.01	0.41
10:Ci:78:SER:O	10:Ci:81:PHE:CB	2.69	0.41
7:Cj:40:LEU:O	7:Cj:43:LEU:HB3	2.21	0.41
5:Ck:34:PHE:CD1	5:Ck:34:PHE:C	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Ck:83:MET:HG3	5:Ck:93:GLN:CB	2.51	0.41
8:Cl:53:ARG:HA	8:Cl:56:ASN:OD1	2.20	0.41
8:Cl:172:ASN:ND2	8:Cl:174:GLY:H	2.18	0.41
9:Cm:91:ASN:HB3	9:Cm:92:ALA:HA	2.03	0.41
9:Cm:180:ILE:HG22	9:Cm:182:LEU:HD13	2.02	0.41
10:Cn:61:SER:HB2	10:Cn:68:GLN:HE21	1.86	0.41
10:Cn:78:SER:C	10:Cn:81:PHE:HB2	2.46	0.41
10:Cn:81:PHE:HD1	10:Cn:81:PHE:HA	1.48	0.41
5:Cp:14:SER:O	5:Cp:17:VAL:N	2.53	0.41
5:Cp:79:ILE:O	5:Cp:80:THR:C	2.63	0.41
8:Cq:184:LYS:HG3	8:Cq:185:GLY:CA	2.51	0.41
10:Cs:18:ILE:CG2	10:Cs:19:GLU:N	2.84	0.41
10:Cs:115:ASP:OD2	10:Cs:121:ARG:HA	2.21	0.41
7:Ct:40:LEU:O	7:Ct:43:LEU:HB3	2.21	0.41
5:Cu:83:MET:HG3	5:Cu:93:GLN:CB	2.51	0.41
8:Cv:43:ASP:O	8:Cv:45:LYS:C	2.63	0.41
8:Cv:128:ALA:C	8:Cv:129:ILE:HG13	2.46	0.41
8:Cv:176:ARG:HB2	8:Cv:196:PHE:CB	2.50	0.41
8:Cv:198:LEU:CD1	8:Cv:203:HIS:CB	2.97	0.41
9:Cw:19:PHE:C	9:Cw:22:ILE:HG22	2.45	0.41
9:Cw:43:PRO:HD3	10:Cx:38:ARG:NE	2.36	0.41
9:Cw:75:GLU:OE2	9:Cw:77:ILE:HD11	2.20	0.41
9:Cw:77:ILE:HG21	9:Cw:82:VAL:HB	2.03	0.41
9:Cw:138:ARG:CB	9:Cw:141:PHE:CD2	2.99	0.41
10:Cx:78:SER:C	10:Cx:81:PHE:HB2	2.46	0.41
7:Cy:85:LEU:HA	7:Cy:91:LEU:HD22	2.02	0.41
5:Cz:34:PHE:CD1	5:Cz:34:PHE:C	2.99	0.41
1:A5:40:LEU:O	1:A5:43:LEU:HB3	2.21	0.41
1:A5:95:LEU:HD21	1:A5:143:ILE:HG23	2.02	0.41
1:A5:103:GLU:HA	1:A5:151:LEU:OXT	2.21	0.41
3:A7:63:SER:OG	3:A7:66:PHE:HB3	2.20	0.41
3:A7:123:LEU:C	3:A7:125:GLN:H	2.29	0.41
3:AE:49:SER:HB3	3:AE:111:TYR:CD1	2.56	0.41
4:AG:28:ALA:HA	4:AG:31:GLN:HB2	2.03	0.41
3:AJ:63:SER:OG	3:AJ:66:PHE:HB3	2.20	0.41
3:AK:63:SER:OG	3:AK:66:PHE:HB3	2.21	0.41
4:AL:4:CYS:SG	4:AL:136:HIS:CB	3.09	0.41
2:AN:19:LEU:O	2:AN:22:ALA:HB3	2.20	0.41
3:AP:122:VAL:C	3:AP:124:PRO:HD2	2.45	0.41
4:AQ:4:CYS:SG	4:AQ:136:HIS:CB	3.09	0.41
1:AR:53:LEU:HD21	1:AR:107:GLY:HA3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AS:10:LEU:HB3	2:AS:13:GLU:CG	2.49	0.41
3:AU:122:VAL:C	3:AU:124:PRO:HD2	2.45	0.41
3:AU:147:ALA:O	3:AU:151:PRO:HD2	2.20	0.41
3:AZ:63:SER:OG	3:AZ:66:PHE:HB3	2.21	0.41
2:Ac:57:ARG:HG2	2:Ac:57:ARG:NH1	2.35	0.41
3:Ad:63:SER:OG	3:Ad:66:PHE:HB3	2.20	0.41
3:Ad:123:LEU:C	3:Ad:125:GLN:H	2.29	0.41
3:Ae:23:TRP:CH2	3:Ae:74:ALA:HB1	2.55	0.41
1:Ag:20:ASP:C	1:Ag:22:LEU:N	2.78	0.41
1:Ag:95:LEU:HD21	1:Ag:143:ILE:HG23	2.02	0.41
1:Al:95:LEU:HD21	1:Al:143:ILE:HG23	2.02	0.41
1:Al:103:GLU:HA	1:Al:151:LEU:OXT	2.21	0.41
2:Am:132:PHE:O	2:Am:133:GLY:C	2.64	0.41
1:Aq:70:HIS:O	1:Aq:71:ALA:C	2.64	0.41
3:At:112:PHE:O	3:At:115:ILE:HG22	2.20	0.41
3:At:122:VAL:C	3:At:124:PRO:HD2	2.45	0.41
4:Au:4:CYS:SG	4:Au:136:HIS:CB	3.09	0.41
1:Av:53:LEU:HD21	1:Av:107:GLY:HA3	2.03	0.41
3:Ax:49:SER:HB3	3:Ax:111:TYR:CD1	2.56	0.41
4:Az:8:GLU:O	4:Az:12:VAL:HG23	2.20	0.41
6:BD:22:VAL:CG2	6:BD:23:TRP:N	2.84	0.41
6:Bi:123:LEU:C	6:Bi:125:GLN:H	2.28	0.41
7:BL:120:LEU:O	7:BL:124:LEU:HG	2.21	0.41
5:BM:18:LYS:HZ2	5:BM:82:SER:HA	1.86	0.41
4:BO:105:TYR:O	4:BO:106:PHE:C	2.64	0.41
7:BQ:120:LEU:O	7:BQ:124:LEU:HG	2.21	0.41
5:BR:31:ARG:O	5:BR:32:VAL:C	2.63	0.41
7:BV:23:TRP:CD2	7:BV:23:TRP:N	2.89	0.41
7:BV:53:LEU:HD21	7:BV:107:GLY:HA3	2.03	0.41
4:Bi:6:VAL:CG1	4:Bi:7:LEU:N	2.83	0.41
6:Bm:63:SER:OG	6:Bm:66:PHE:HB3	2.20	0.41
7:Bp:14:ILE:O	7:Bp:15:VAL:C	2.62	0.41
7:Bp:120:LEU:O	7:Bp:124:LEU:HG	2.21	0.41
4:Bs:105:TYR:O	4:Bs:106:PHE:C	2.64	0.41
7:Bu:63:GLU:H	7:Bu:63:GLU:CD	2.28	0.41
7:Bu:120:LEU:O	7:Bu:124:LEU:HG	2.21	0.41
7:Bz:23:TRP:CD2	7:Bz:23:TRP:N	2.89	0.41
7:Bz:53:LEU:HD21	7:Bz:107:GLY:HA3	2.03	0.41
9:C1:31:LEU:CD1	10:C2:28:ILE:C	2.89	0.41
9:C1:43:PRO:C	9:C1:45:HIS:N	2.79	0.41
9:C1:131:THR:HG23	9:C1:150:LEU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C1:138:ARG:CB	9:C1:141:PHE:CD2	2.99	0.41
9:C6:28:ILE:HD13	10:C7:24:ILE:CD1	2.47	0.41
9:C6:38:ALA:O	10:C7:38:ARG:CZ	2.69	0.41
9:C6:102:THR:HG23	9:C6:103:SER:N	2.36	0.41
8:CC:168:ARG:HG2	8:CC:169:GLY:H	1.85	0.41
9:CD:42:ASP:CG	10:CE:38:ARG:HH22	2.29	0.41
9:CD:43:PRO:HD3	10:CE:38:ARG:NE	2.36	0.41
9:CD:66:THR:HG22	9:CD:67:PHE:N	2.36	0.41
9:CD:209:ARG:HD2	9:CD:209:ARG:HA	1.78	0.41
10:CE:77:ILE:C	10:CE:77:ILE:CD1	2.94	0.41
5:CG:34:PHE:C	5:CG:34:PHE:CD1	2.99	0.41
8:CH:66:GLU:HG2	8:CH:77:ILE:C	2.46	0.41
8:CH:70:ARG:NH1	8:CH:70:ARG:HA	2.36	0.41
8:CH:105:THR:CG2	8:CH:145:VAL:HG11	2.51	0.41
9:CI:24:LEU:CD2	10:CJ:21:THR:HG23	2.51	0.41
9:CI:57:ILE:CG1	10:CJ:57:LEU:HD12	2.44	0.41
9:CI:140:PHE:CB	9:CI:141:PHE:HA	2.45	0.41
10:CJ:179:HIS:HA	10:CJ:180:PRO:HD3	1.57	0.41
7:CK:109:GLN:O	7:CK:112:HIS:HB2	2.21	0.41
5:CL:73:VAL:O	5:CL:74:LEU:C	2.63	0.41
5:CL:79:ILE:O	5:CL:80:THR:C	2.63	0.41
5:CL:125:ARG:HG2	5:CL:125:ARG:NH1	2.35	0.41
8:CM:56:ASN:CB	8:CM:198:LEU:O	2.67	0.41
8:CM:70:ARG:NH1	8:CM:70:ARG:HA	2.36	0.41
8:CM:117:TRP:CB	8:CM:121:GLU:H	2.32	0.41
9:CN:116:THR:HG22	9:CN:125:ASP:OD2	2.20	0.41
10:CO:78:SER:O	10:CO:81:PHE:CB	2.69	0.41
8:CR:70:ARG:HA	8:CR:70:ARG:NH1	2.36	0.41
8:CR:172:ASN:ND2	8:CR:174:GLY:H	2.18	0.41
9:CS:43:PRO:HD3	10:CT:38:ARG:NE	2.36	0.41
9:CS:131:THR:HG23	9:CS:150:LEU:HB3	2.03	0.41
10:CT:31:VAL:C	10:CT:33:SER:N	2.76	0.41
7:CU:9:GLU:HG3	9:CX:119:GLY:C	2.46	0.41
7:CU:85:LEU:HA	7:CU:91:LEU:HD22	2.02	0.41
5:CV:34:PHE:C	5:CV:34:PHE:CD1	2.99	0.41
8:CW:114:LEU:HD22	9:CX:73:GLU:HB3	2.02	0.41
9:CX:43:PRO:C	9:CX:45:HIS:N	2.79	0.41
9:CX:131:THR:HG23	9:CX:150:LEU:HB3	2.03	0.41
10:CY:94:ASP:OD1	10:CY:94:ASP:N	2.53	0.41
8:Cc:28:LEU:HD21	10:Cd:27:SER:CB	2.50	0.41
9:Cc:102:THR:HG23	9:Cc:103:SER:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cg:168:ARG:HG2	8:Cg:169:GLY:H	1.85	0.41
9:Ch:137:ARG:HH11	9:Ch:137:ARG:HD2	1.73	0.41
9:Ch:140:PHE:CB	9:Ch:141:PHE:HA	2.45	0.41
9:Ch:147:LEU:N	9:Ch:147:LEU:CD2	2.83	0.41
10:Ci:77:ILE:C	10:Ci:77:ILE:CD1	2.94	0.41
10:Ci:102:THR:O	10:Ci:102:THR:HG22	2.20	0.41
8:Cl:66:GLU:HG2	8:Cl:77:ILE:C	2.46	0.41
8:Cl:70:ARG:NH1	8:Cl:70:ARG:HA	2.36	0.41
8:Cl:173:PHE:HD1	8:Cl:173:PHE:HA	1.10	0.41
9:Cm:24:LEU:CD2	10:Cn:21:THR:HG23	2.51	0.41
9:Cm:28:ILE:CD1	10:Cn:28:ILE:HD11	2.51	0.41
9:Cm:49:GLU:O	9:Cm:53:ARG:HB2	2.21	0.41
9:Cm:102:THR:HG23	9:Cm:103:SER:N	2.36	0.41
10:Cn:109:ILE:HD13	10:Cn:109:ILE:HA	1.92	0.41
5:Cp:34:PHE:CD1	5:Cp:34:PHE:C	2.99	0.41
5:Cp:84:LEU:HD12	5:Cp:84:LEU:HA	1.86	0.41
5:Cp:125:ARG:HG2	5:Cp:125:ARG:NH1	2.35	0.41
8:Cq:51:LYS:HZ2	10:Cs:46:LYS:HE3	1.85	0.41
8:Cq:70:ARG:NH1	8:Cq:70:ARG:HA	2.36	0.41
8:Cq:82:PHE:HD1	8:Cq:83:CYS:CA	2.29	0.41
9:Cr:49:GLU:O	9:Cr:53:ARG:HB2	2.21	0.41
9:Cr:116:THR:HG22	9:Cr:125:ASP:OD2	2.20	0.41
10:Cs:78:SER:O	10:Cs:81:PHE:CB	2.69	0.41
8:Cv:70:ARG:HA	8:Cv:70:ARG:NH1	2.36	0.41
9:Cw:49:GLU:O	9:Cw:53:ARG:HB2	2.21	0.41
9:Cw:131:THR:HG23	9:Cw:150:LEU:HB3	2.03	0.41
3:A2:143:VAL:O	3:A2:144:ALA:C	2.64	0.40
3:A3:63:SER:OG	3:A3:66:PHE:HB3	2.21	0.40
3:A3:112:PHE:C	3:A3:114:GLY:N	2.76	0.40
2:A6:79:ILE:O	2:A6:80:THR:C	2.63	0.40
2:A6:83:MET:CG	2:A6:90:LEU:HA	2.48	0.40
3:A7:49:SER:HB3	3:A7:111:TYR:CD1	2.56	0.40
3:A7:94:LEU:HD12	3:A7:94:LEU:HA	1.84	0.40
1:AC:96:ASP:O	1:AC:99:ALA:HB3	2.21	0.40
1:AC:103:GLU:HA	1:AC:151:LEU:OXT	2.21	0.40
3:AE:145:ARG:HA	3:AE:148:LYS:HD3	2.03	0.40
3:AF:97:LEU:HD23	3:AF:146:ILE:CD1	2.50	0.40
3:AF:144:ALA:O	3:AF:148:LYS:HG2	2.20	0.40
4:AG:70:GLY:O	4:AG:73:ASP:HB3	2.21	0.40
2:AI:132:PHE:O	2:AI:133:GLY:C	2.64	0.40
3:AJ:80:LEU:HD22	3:AJ:94:LEU:HD13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:70:HIS:O	1:AM:71:ALA:C	2.64	0.40
2:AN:12:THR:C	2:AN:14:SER:N	2.79	0.40
3:AO:112:PHE:C	3:AO:114:GLY:N	2.77	0.40
4:AQ:7:LEU:C	4:AQ:9:GLY:N	2.78	0.40
3:AT:49:SER:HB3	3:AT:111:TYR:CD1	2.56	0.40
3:AT:112:PHE:C	3:AT:114:GLY:N	2.77	0.40
3:AU:69:HIS:O	3:AU:70:LEU:C	2.64	0.40
2:AX:17:VAL:HG13	2:AX:135:TRP:CZ2	2.55	0.40
3:AY:143:VAL:O	3:AY:144:ALA:C	2.64	0.40
3:AZ:112:PHE:C	3:AZ:114:GLY:N	2.76	0.40
1:Ag:8:SER:O	1:Ag:11:ASP:HB2	2.21	0.40
1:Ag:96:ASP:O	1:Ag:99:ALA:HB3	2.21	0.40
1:Ag:103:GLU:HA	1:Ag:151:LEU:OXT	2.21	0.40
2:Ah:79:ILE:O	2:Ah:80:THR:C	2.63	0.40
3:Ai:145:ARG:HA	3:Ai:148:LYS:HD3	2.03	0.40
4:Ak:28:ALA:HA	4:Ak:31:GLN:HB2	2.03	0.40
3:An:80:LEU:HD22	3:An:94:LEU:HD13	2.03	0.40
1:Aq:95:LEU:HD21	1:Aq:143:ILE:HG23	2.02	0.40
4:Au:70:GLY:O	4:Au:73:ASP:HB3	2.21	0.40
3:Ay:69:HIS:O	3:Ay:70:LEU:C	2.64	0.40
3:Ay:122:VAL:C	3:Ay:124:PRO:HD2	2.45	0.40
3:Ay:147:ALA:O	3:Ay:151:PRO:HD2	2.20	0.40
5:B0:57:ARG:HG2	5:B0:57:ARG:NH1	2.36	0.40
5:B0:73:VAL:O	5:B0:74:LEU:C	2.64	0.40
6:B1:123:LEU:O	6:B1:127:LEU:HD23	2.20	0.40
6:B1:131:ASN:O	6:B1:132:VAL:C	2.64	0.40
7:B4:40:LEU:HD22	7:B4:54:PHE:CE2	2.56	0.40
6:BD:122:VAL:C	6:BD:124:PRO:HD2	2.46	0.40
4:BF:127:ARG:O	4:BF:128:GLU:C	2.64	0.40
5:BH:31:ARG:HB3	5:BH:71:GLN:NE2	2.36	0.40
5:BH:134:ALA:O	5:BH:138:CYS:HB2	2.20	0.40
6:BI:88:LEU:HD23	6:BI:88:LEU:HA	1.92	0.40
4:BJ:94:VAL:HA	4:BJ:97:GLU:HG2	2.03	0.40
7:BL:150:ARG:HH11	7:BL:150:ARG:HD2	1.69	0.40
5:BM:12:THR:C	5:BM:14:SER:N	2.79	0.40
5:BM:14:SER:O	5:BM:15:LEU:C	2.64	0.40
4:BO:81:GLN:H	4:BO:81:GLN:HG3	1.47	0.40
4:BP:58:HIS:CE1	4:BP:59:PRO:HG2	2.56	0.40
5:BR:25:PHE:CE2	5:BR:31:ARG:NE	2.89	0.40
6:BS:122:VAL:C	6:BS:124:PRO:HD2	2.46	0.40
5:BW:14:SER:O	5:BW:15:LEU:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:BW:57:ARG:HG2	5:BW:57:ARG:NH1	2.36	0.40
5:BW:73:VAL:O	5:BW:74:LEU:C	2.64	0.40
6:BX:123:LEU:C	6:BX:125:GLN:H	2.28	0.40
6:BX:123:LEU:O	6:BX:127:LEU:HD23	2.20	0.40
6:BX:131:ASN:O	6:BX:132:VAL:C	2.64	0.40
7:Ba:40:LEU:HD22	7:Ba:54:PHE:CE2	2.56	0.40
7:Bf:3:HIS:HB3	7:Bf:4:GLU:H	1.63	0.40
7:Bf:85:LEU:HA	7:Bf:91:LEU:HD22	2.03	0.40
5:Bg:19:LEU:O	5:Bg:22:ALA:HB3	2.20	0.40
5:Bg:31:ARG:HB3	5:Bg:71:GLN:NE2	2.36	0.40
6:Bh:122:VAL:C	6:Bh:124:PRO:HD2	2.46	0.40
5:Bl:25:PHE:CE2	5:Bl:31:ARG:NE	2.89	0.40
5:Bl:31:ARG:HB3	5:Bl:71:GLN:NE2	2.36	0.40
5:Bl:134:ALA:O	5:Bl:138:CYS:HB2	2.20	0.40
6:Bm:22:VAL:CG2	6:Bm:23:TRP:N	2.84	0.40
6:Bm:25:SER:OG	6:Bm:27:PHE:HB2	2.20	0.40
4:Bn:94:VAL:HA	4:Bn:97:GLU:HG2	2.03	0.40
4:Bt:48:PHE:CD1	4:Bt:48:PHE:N	2.89	0.40
4:By:123:ARG:HD3	4:By:123:ARG:N	2.34	0.40
8:C0:28:LEU:HD21	10:C2:27:SER:CB	2.51	0.40
9:C1:28:ILE:CD1	10:C2:28:ILE:HD11	2.51	0.40
9:C1:49:GLU:O	9:C1:53:ARG:HB2	2.21	0.40
9:C1:119:GLY:C	7:Cy:9:GLU:HG3	2.46	0.40
8:C5:184:LYS:HG3	8:C5:185:GLY:CA	2.51	0.40
9:C6:116:THR:HG22	9:C6:125:ASP:OD2	2.20	0.40
10:C7:197:PHE:HB3	10:C7:199:ARG:CB	2.37	0.40
7:CA:40:LEU:O	7:CA:43:LEU:HB3	2.21	0.40
7:CA:85:LEU:HA	7:CA:91:LEU:HD22	2.02	0.40
5:CB:111:PHE:HD1	5:CB:111:PHE:H	1.68	0.40
8:CC:66:GLU:HG2	8:CC:77:ILE:C	2.46	0.40
10:CE:102:THR:O	10:CE:102:THR:HG22	2.20	0.40
5:CG:14:SER:O	5:CG:17:VAL:N	2.53	0.40
9:CI:28:ILE:CD1	10:CJ:28:ILE:HD11	2.51	0.40
9:CI:49:GLU:O	9:CI:53:ARG:HB2	2.21	0.40
9:CI:50:ILE:O	9:CI:51:ASP:C	2.64	0.40
9:CI:147:LEU:N	9:CI:147:LEU:CD2	2.83	0.40
10:CJ:102:THR:O	10:CJ:102:THR:HG22	2.20	0.40
10:CJ:115:ASP:OD2	10:CJ:121:ARG:HA	2.21	0.40
5:CL:14:SER:O	5:CL:17:VAL:N	2.53	0.40
5:CL:34:PHE:CD1	5:CL:34:PHE:C	2.99	0.40
9:CN:49:GLU:O	9:CN:53:ARG:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CN:66:THR:HG22	9:CN:67:PHE:N	2.36	0.40
9:CN:209:ARG:HA	9:CN:209:ARG:HD2	1.78	0.40
8:CR:198:LEU:CD1	8:CR:203:HIS:CB	2.97	0.40
9:CS:49:GLU:O	9:CS:53:ARG:HB2	2.21	0.40
9:CS:77:ILE:HG23	9:CS:81:LEU:HD23	2.04	0.40
7:CU:23:TRP:HZ3	7:CU:31:ILE:HG21	1.86	0.40
5:CV:83:MET:HG3	5:CV:93:GLN:CB	2.51	0.40
8:CW:28:LEU:HD21	10:CY:27:SER:CB	2.51	0.40
9:CX:19:PHE:HA	9:CX:22:ILE:HG22	2.03	0.40
9:CX:28:ILE:CD1	10:CY:28:ILE:HD11	2.51	0.40
9:CX:38:ALA:H	10:CY:35:LEU:HD11	1.82	0.40
7:CZ:85:LEU:HA	7:CZ:91:LEU:HD22	2.02	0.40
8:Cb:184:LYS:HG3	8:Cb:185:GLY:CA	2.51	0.40
9:Cc:38:ALA:O	10:Cd:38:ARG:CZ	2.69	0.40
9:Cc:116:THR:HG22	9:Cc:125:ASP:OD2	2.20	0.40
10:Cd:94:ASP:N	10:Cd:94:ASP:OD1	2.53	0.40
7:Ce:151:LEU:HD23	7:Ce:151:LEU:HA	1.75	0.40
5:Cf:83:MET:HG3	5:Cf:93:GLN:CB	2.51	0.40
5:Cf:111:PHE:HD1	5:Cf:111:PHE:H	1.68	0.40
8:Cg:66:GLU:HG2	8:Cg:77:ILE:C	2.46	0.40
8:Cg:130:VAL:O	8:Cg:130:VAL:CG1	2.68	0.40
9:Ch:11:ASP:N	9:Ch:12:PRO:CD	2.84	0.40
9:Ch:43:PRO:HD3	10:Ci:38:ARG:NE	2.36	0.40
9:Ch:180:ILE:HG22	9:Ch:182:LEU:HD13	2.02	0.40
5:Ck:14:SER:O	5:Ck:17:VAL:N	2.53	0.40
8:Cl:105:THR:CG2	8:Cl:145:VAL:HG11	2.51	0.40
9:Cm:140:PHE:CB	9:Cm:141:PHE:HA	2.45	0.40
9:Cm:147:LEU:N	9:Cm:147:LEU:CD2	2.83	0.40
10:Cn:102:THR:O	10:Cn:102:THR:HG22	2.20	0.40
10:Cn:115:ASP:OD2	10:Cn:121:ARG:HA	2.21	0.40
7:Co:109:GLN:O	7:Co:112:HIS:HB2	2.21	0.40
5:Cp:73:VAL:O	5:Cp:74:LEU:C	2.63	0.40
8:Cq:117:TRP:CB	8:Cq:121:GLU:H	2.32	0.40
7:Ct:109:GLN:O	7:Ct:112:HIS:HB2	2.21	0.40
5:Cu:73:VAL:O	5:Cu:74:LEU:C	2.63	0.40
8:Cv:117:TRP:CB	8:Cv:121:GLU:H	2.32	0.40
8:Cv:172:ASN:ND2	8:Cv:174:GLY:H	2.18	0.40
9:Cw:38:ALA:H	10:Cx:35:LEU:HD11	1.82	0.40
9:Cw:42:ASP:HA	9:Cw:43:PRO:HD2	1.73	0.40
5:Cz:83:MET:HG3	5:Cz:93:GLN:CB	2.51	0.40
1:A0:127:VAL:HG23	1:A0:128:LEU:HG	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:17:VAL:HG13	2:A1:135:TRP:CZ2	2.55	0.40
4:A4:4:CYS:SG	4:A4:136:HIS:CB	3.09	0.40
1:A5:8:SER:O	1:A5:11:ASP:HB2	2.21	0.40
1:A5:134:LEU:HD23	1:A5:134:LEU:HA	1.93	0.40
4:AB:79:LEU:HA	4:AB:85:LEU:HD13	2.03	0.40
1:AC:8:SER:O	1:AC:11:ASP:HB2	2.21	0.40
2:AD:10:LEU:HB3	2:AD:13:GLU:CG	2.49	0.40
2:AD:61:ILE:HA	2:AD:66:PHE:CD2	2.57	0.40
2:AD:79:ILE:O	2:AD:80:THR:C	2.63	0.40
3:AF:88:LEU:HD23	3:AF:88:LEU:HA	1.93	0.40
4:AG:4:CYS:SG	4:AG:136:HIS:CB	3.09	0.40
2:AI:79:ILE:O	2:AI:80:THR:C	2.63	0.40
3:AJ:112:PHE:C	3:AJ:114:GLY:N	2.77	0.40
1:AM:95:LEU:HD21	1:AM:143:ILE:HG23	2.02	0.40
3:AP:65:GLU:H	3:AP:65:GLU:HG2	1.69	0.40
4:AQ:70:GLY:O	4:AQ:73:ASP:HB3	2.21	0.40
4:AV:70:GLY:O	4:AV:73:ASP:HB3	2.21	0.40
4:Aa:1:LYS:HZ3	4:Aa:128:GLU:HA	1.85	0.40
1:Ab:8:SER:O	1:Ab:11:ASP:HB2	2.21	0.40
1:Ab:95:LEU:HD21	1:Ab:143:ILE:HG23	2.02	0.40
3:Ad:49:SER:HB3	3:Ad:111:TYR:CD1	2.56	0.40
3:Ae:83:LEU:HD21	3:Ae:89:VAL:HG12	2.02	0.40
4:Af:79:LEU:HA	4:Af:85:LEU:HD13	2.03	0.40
2:Ah:61:ILE:HA	2:Ah:66:PHE:CD2	2.57	0.40
3:Aj:97:LEU:HD23	3:Aj:146:ILE:CD1	2.50	0.40
3:Aj:118:ALA:O	3:Aj:122:VAL:HG23	2.20	0.40
3:Aj:144:ALA:O	3:Aj:148:LYS:HG2	2.20	0.40
4:Ak:70:GLY:O	4:Ak:73:ASP:HB3	2.21	0.40
3:An:63:SER:OG	3:An:66:PHE:HB3	2.20	0.40
3:An:104:ARG:HH11	3:An:104:ARG:HG2	1.87	0.40
4:Ap:70:GLY:O	4:Ap:73:ASP:HB3	2.21	0.40
2:Ar:12:THR:C	2:Ar:14:SER:N	2.79	0.40
3:As:98:ALA:HB1	3:As:149:ASP:HB2	2.03	0.40
3:At:65:GLU:H	3:At:65:GLU:HG2	1.69	0.40
2:Aw:10:LEU:HB3	2:Aw:13:GLU:CG	2.49	0.40
4:Az:70:GLY:O	4:Az:73:ASP:HB3	2.21	0.40
4:Az:79:LEU:HA	4:Az:85:LEU:HD13	2.03	0.40
5:B0:12:THR:C	5:B0:14:SER:N	2.79	0.40
5:B0:25:PHE:CE2	5:B0:31:ARG:NE	2.89	0.40
6:B1:53:PHE:O	6:B1:56:VAL:HG22	2.22	0.40
6:B1:123:LEU:C	6:B1:125:GLN:H	2.28	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B5:19:LEU:O	5:B5:22:ALA:HB3	2.20	0.40
5:B5:57:ARG:HG2	5:B5:57:ARG:NH1	2.36	0.40
7:BB:85:LEU:HA	7:BB:91:LEU:HD22	2.03	0.40
5:BC:19:LEU:O	5:BC:22:ALA:HB3	2.20	0.40
5:BC:25:PHE:CE2	5:BC:31:ARG:NE	2.89	0.40
5:BC:31:ARG:HB3	5:BC:71:GLN:NE2	2.36	0.40
6:BD:72:ARG:HD2	5:CB:93:GLN:OE1	2.21	0.40
4:BF:48:PHE:CD1	4:BF:48:PHE:N	2.89	0.40
5:BH:25:PHE:CE2	5:BH:31:ARG:NE	2.89	0.40
5:BH:57:ARG:HG2	5:BH:57:ARG:NH1	2.36	0.40
6:BI:22:VAL:CG2	6:BI:23:TRP:N	2.84	0.40
6:BI:25:SER:OG	6:BI:27:PHE:HB2	2.20	0.40
5:BM:18:LYS:NZ	5:BM:82:SER:HA	2.35	0.40
5:BM:49:ILE:C	5:BM:51:ALA:H	2.27	0.40
4:BP:48:PHE:CD1	4:BP:48:PHE:N	2.89	0.40
7:BQ:63:GLU:H	7:BQ:63:GLU:CD	2.28	0.40
6:BS:123:LEU:O	6:BS:127:LEU:HD23	2.20	0.40
4:BU:111:THR:O	4:BU:112:ALA:C	2.64	0.40
5:BW:12:THR:C	5:BW:14:SER:N	2.79	0.40
5:BW:25:PHE:CE2	5:BW:31:ARG:NE	2.89	0.40
6:BX:53:PHE:O	6:BX:56:VAL:HG22	2.22	0.40
7:Ba:53:LEU:HD21	7:Ba:107:GLY:HA3	2.03	0.40
5:Bb:19:LEU:O	5:Bb:22:ALA:HB3	2.20	0.40
5:Bg:25:PHE:CE2	5:Bg:31:ARG:NE	2.89	0.40
6:Bh:72:ARG:HD2	5:Cf:93:GLN:OE1	2.21	0.40
4:Bj:127:ARG:O	4:Bj:128:GLU:C	2.64	0.40
5:Bl:83:MET:HE3	5:Bl:89:MET:HB3	2.03	0.40
6:Bm:123:LEU:C	6:Bm:125:GLN:H	2.28	0.40
4:Bn:123:ARG:HD3	4:Bn:123:ARG:N	2.36	0.40
4:Bo:134:ILE:HD13	4:Bo:134:ILE:HA	1.97	0.40
5:Bq:31:ARG:O	5:Bq:32:VAL:C	2.63	0.40
5:Bq:49:ILE:C	5:Bq:51:ALA:H	2.27	0.40
5:Bq:107:LYS:HA	5:Bq:108:PRO:HD3	1.61	0.40
4:Bt:58:HIS:CE1	4:Bt:59:PRO:HG2	2.56	0.40
7:Bu:40:LEU:O	7:Bu:43:LEU:HB3	2.22	0.40
5:Bv:25:PHE:CE2	5:Bv:31:ARG:NE	2.89	0.40
6:Bw:122:VAL:C	6:Bw:124:PRO:HD2	2.46	0.40
4:By:111:THR:O	4:By:112:ALA:C	2.64	0.40
8:C0:49:GLN:HE21	8:C0:49:GLN:HB2	1.65	0.40
8:C0:114:LEU:HD22	9:C1:73:GLU:HB3	2.02	0.40
9:C1:11:ASP:N	9:C1:12:PRO:CD	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C1:19:PHE:HA	9:C1:22:ILE:HG22	2.03	0.40
7:C3:85:LEU:HA	7:C3:91:LEU:HD22	2.02	0.40
5:C4:117:HIS:O	5:C4:118:LEU:C	2.65	0.40
8:C5:130:VAL:O	8:C5:130:VAL:CG1	2.68	0.40
9:C6:66:THR:HG22	9:C6:67:PHE:N	2.36	0.40
9:C6:92:ALA:CB	9:C6:95:GLU:HG2	2.21	0.40
9:C6:145:ILE:HB	9:C6:172:TYR:HB3	2.03	0.40
7:CA:40:LEU:HD23	7:CA:40:LEU:HA	1.91	0.40
5:CB:83:MET:HG3	5:CB:93:GLN:CB	2.51	0.40
8:CC:21:ILE:HG23	10:CE:20:ARG:HG2	1.37	0.40
8:CC:130:VAL:O	8:CC:130:VAL:CG1	2.68	0.40
9:CD:11:ASP:N	9:CD:12:PRO:CD	2.84	0.40
9:CD:137:ARG:HH11	9:CD:137:ARG:HD2	1.73	0.40
10:CE:61:SER:HB2	10:CE:68:GLN:HE21	1.86	0.40
10:CE:109:ILE:HD13	10:CE:109:ILE:HA	1.92	0.40
7:CF:23:TRP:HZ3	7:CF:31:ILE:HG21	1.86	0.40
9:CI:102:THR:HG23	9:CI:103:SER:N	2.36	0.40
8:CM:51:LYS:HZ2	10:CO:46:LYS:HE3	1.85	0.40
8:CM:82:PHE:CE1	8:CM:142:PRO:HG2	2.56	0.40
9:CN:173:ASN:HD22	9:CN:173:ASN:C	2.27	0.40
7:CP:109:GLN:O	7:CP:112:HIS:HB2	2.21	0.40
5:CQ:73:VAL:O	5:CQ:74:LEU:C	2.63	0.40
9:CS:66:THR:HG22	9:CS:67:PHE:N	2.36	0.40
9:CS:209:ARG:HA	9:CS:209:ARG:HD2	1.78	0.40
9:CX:49:GLU:O	9:CX:53:ARG:HB2	2.21	0.40
9:CX:184:THR:HB	9:CX:185:ASP:H	1.78	0.40
10:CY:115:ASP:OD2	10:CY:121:ARG:HA	2.21	0.40
10:CY:197:PHE:HB3	10:CY:199:ARG:CB	2.37	0.40
5:Ca:117:HIS:O	5:Ca:118:LEU:C	2.65	0.40
8:Cb:130:VAL:O	8:Cb:130:VAL:CG1	2.68	0.40
9:Cc:43:PRO:HD3	10:Cd:38:ARG:NE	2.36	0.40
9:Cc:131:THR:HG23	9:Cc:150:LEU:HB3	2.03	0.40
9:Cc:145:ILE:HB	9:Cc:172:TYR:HB3	2.03	0.40
7:Ce:85:LEU:HA	7:Ce:91:LEU:HD22	2.02	0.40
8:Cg:82:PHE:CE1	8:Cg:142:PRO:HG2	2.56	0.40
9:Ch:91:ASN:HB3	9:Ch:92:ALA:HA	2.03	0.40
7:Cj:23:TRP:HZ3	7:Cj:31:ILE:HG21	1.86	0.40
7:Cj:109:GLN:O	7:Cj:112:HIS:HB2	2.21	0.40
8:Cl:53:ARG:HH11	8:Cl:53:ARG:HG3	1.87	0.40
7:Co:23:TRP:HZ3	7:Co:31:ILE:HG21	1.86	0.40
8:Cq:56:ASN:CB	8:Cq:198:LEU:O	2.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Cr:11:ASP:N	9:Cr:12:PRO:CD	2.84	0.40
9:Cr:66:THR:HG22	9:Cr:67:PHE:N	2.36	0.40
9:Cr:173:ASN:HD22	9:Cr:173:ASN:C	2.27	0.40
9:Cr:209:ARG:HA	9:Cr:209:ARG:HD2	1.78	0.40
8:Cv:12:TYR:HB3	8:Cv:13:LEU:H	1.32	0.40
8:Cv:105:THR:CG2	8:Cv:145:VAL:HG11	2.51	0.40
9:Cw:24:LEU:CD2	10:Cx:21:THR:HG23	2.51	0.40
9:Cw:66:THR:HG22	9:Cw:67:PHE:N	2.36	0.40
9:Cw:77:ILE:HG23	9:Cw:81:LEU:HD23	2.04	0.40
9:Cw:209:ARG:HA	9:Cw:209:ARG:HD2	1.78	0.40
10:Cx:61:SER:HB2	10:Cx:68:GLN:HE21	1.86	0.40
7:Cy:23:TRP:HZ3	7:Cy:31:ILE:HG21	1.86	0.40
3:A3:69:HIS:O	3:A3:70:LEU:C	2.64	0.40
3:A3:147:ALA:O	3:A3:151:PRO:HD2	2.20	0.40
1:A5:70:HIS:O	1:A5:71:ALA:C	2.64	0.40
3:AA:83:LEU:HD21	3:AA:89:VAL:HG12	2.02	0.40
3:AA:97:LEU:HD23	3:AA:146:ILE:CD1	2.50	0.40
3:AF:118:ALA:O	3:AF:122:VAL:HG23	2.20	0.40
3:AJ:104:ARG:HH11	3:AJ:104:ARG:HG2	1.87	0.40
1:AM:103:GLU:HA	1:AM:151:LEU:OXT	2.21	0.40
3:AO:98:ALA:HB1	3:AO:149:ASP:HB2	2.03	0.40
3:AP:69:HIS:O	3:AP:70:LEU:C	2.64	0.40
4:AQ:79:LEU:CD1	4:AQ:85:LEU:CD2	2.98	0.40
1:Ab:70:HIS:O	1:Ab:71:ALA:C	2.64	0.40
2:Ac:8:GLU:HG2	2:Ac:9:CYS:N	2.27	0.40
2:Ac:79:ILE:O	2:Ac:80:THR:C	2.63	0.40
3:Ad:94:LEU:HD12	3:Ad:94:LEU:HA	1.84	0.40
3:Ad:143:VAL:O	3:Ad:144:ALA:C	2.64	0.40
3:Aj:147:ALA:O	3:Aj:151:PRO:HD2	2.20	0.40
2:Am:79:ILE:O	2:Am:80:THR:C	2.63	0.40
3:An:136:ASN:HD22	3:An:136:ASN:HA	1.58	0.40
4:Ap:62:ILE:HD13	4:Ap:62:ILE:HA	1.98	0.40
2:Ar:8:GLU:CG	2:Ar:9:CYS:H	2.20	0.40
3:At:69:HIS:O	3:At:70:LEU:C	2.64	0.40
3:Ay:18:ILE:HG21	3:Ay:130:PHE:CE1	2.56	0.40
4:B2:7:LEU:C	4:B2:9:GLY:N	2.79	0.40
4:B3:96:HIS:HD2	4:B3:101:ILE:CD1	2.35	0.40
7:B4:53:LEU:HD21	7:B4:107:GLY:HA3	2.03	0.40
6:B6:72:ARG:HD2	5:C4:93:GLN:OE1	2.21	0.40
4:BA:58:HIS:CE1	4:BA:59:PRO:HG2	2.56	0.40
4:BA:111:THR:O	4:BA:112:ALA:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:BD:144:ALA:O	6:BD:148:LYS:HB2	2.22	0.40
7:BG:86:ASP:O	7:BG:87:ASP:HB2	2.22	0.40
5:BH:60:ASN:OD1	5:BH:63:SER:N	2.55	0.40
5:BH:83:MET:HE3	5:BH:89:MET:HB3	2.03	0.40
4:BJ:123:ARG:HD3	4:BJ:123:ARG:N	2.36	0.40
4:BK:96:HIS:HD2	4:BK:101:ILE:CD1	2.35	0.40
7:BL:40:LEU:O	7:BL:43:LEU:HB3	2.22	0.40
6:BN:136:ASN:HD22	6:BN:136:ASN:HA	1.56	0.40
7:BQ:40:LEU:O	7:BQ:43:LEU:HB3	2.22	0.40
4:BU:123:ARG:HD3	4:BU:123:ARG:N	2.34	0.40
4:BY:7:LEU:C	4:BY:9:GLY:N	2.79	0.40
7:Ba:23:TRP:HZ3	7:Ba:31:ILE:HG21	1.86	0.40
5:Bb:57:ARG:HG2	5:Bb:57:ARG:NH1	2.36	0.40
5:Bb:132:PHE:O	5:Bb:133:GLY:C	2.65	0.40
4:Bd:123:ARG:HD3	4:Bd:123:ARG:N	2.36	0.40
4:Be:48:PHE:CD1	4:Be:48:PHE:N	2.89	0.40
4:Be:111:THR:O	4:Be:112:ALA:C	2.64	0.40
7:Bf:23:TRP:HZ3	7:Bf:31:ILE:HG21	1.86	0.40
5:Bg:57:ARG:HG2	5:Bg:57:ARG:NH1	2.36	0.40
6:Bh:144:ALA:O	6:Bh:148:LYS:HB2	2.22	0.40
4:Bj:48:PHE:CD1	4:Bj:48:PHE:N	2.89	0.40
5:Bl:57:ARG:HG2	5:Bl:57:ARG:NH1	2.36	0.40
5:Bl:60:ASN:OD1	5:Bl:63:SER:N	2.55	0.40
7:Bp:40:LEU:O	7:Bp:43:LEU:HB3	2.22	0.40
5:Bq:12:THR:C	5:Bq:14:SER:N	2.79	0.40
5:Bq:18:LYS:NZ	5:Bq:82:SER:HA	2.35	0.40
6:Bw:123:LEU:O	6:Bw:127:LEU:HD23	2.20	0.40
7:Bz:40:LEU:HD22	7:Bz:54:PHE:CE2	2.56	0.40
10:C2:78:SER:O	10:C2:81:PHE:CB	2.69	0.40
10:C2:115:ASP:OD2	10:C2:121:ARG:HA	2.21	0.40
7:C3:109:GLN:O	7:C3:112:HIS:HB2	2.21	0.40
5:C4:132:PHE:O	5:C4:133:GLY:C	2.65	0.40
9:C6:131:THR:HG23	9:C6:150:LEU:HB3	2.03	0.40
9:C6:140:PHE:CB	9:C6:141:PHE:HA	2.45	0.40
10:C7:94:ASP:N	10:C7:94:ASP:OD1	2.53	0.40
10:C7:100:LEU:H	10:C7:100:LEU:HG	1.60	0.40
5:CB:34:PHE:CD1	5:CB:34:PHE:C	2.99	0.40
5:CB:132:PHE:O	5:CB:133:GLY:C	2.65	0.40
8:CC:28:LEU:HD21	10:CE:27:SER:CB	2.51	0.40
8:CC:53:ARG:HG3	8:CC:53:ARG:HH11	1.87	0.40
8:CC:82:PHE:CE1	8:CC:142:PRO:HG2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CD:77:ILE:HG23	9:CD:81:LEU:HD23	2.04	0.40
9:CD:91:ASN:HB3	9:CD:92:ALA:HA	2.03	0.40
9:CD:173:ASN:C	9:CD:173:ASN:ND2	2.79	0.40
9:CD:180:ILE:HG22	9:CD:182:LEU:HD13	2.02	0.40
10:CE:78:SER:C	10:CE:81:PHE:HB2	2.46	0.40
7:CF:109:GLN:O	7:CF:112:HIS:HB2	2.21	0.40
8:CH:53:ARG:HH11	8:CH:53:ARG:HG3	1.87	0.40
8:CH:145:VAL:H	8:CH:145:VAL:HG22	1.54	0.40
9:CI:34:LYS:O	10:CJ:35:LEU:CG	2.60	0.40
5:CL:49:ILE:C	5:CL:51:ALA:H	2.29	0.40
5:CL:83:MET:HG3	5:CL:93:GLN:CB	2.51	0.40
8:CM:53:ARG:HH11	8:CM:53:ARG:HG3	1.87	0.40
8:CM:82:PHE:HD1	8:CM:83:CYS:CA	2.29	0.40
9:CN:157:ARG:HG3	9:CN:158:HIS:N	2.33	0.40
10:CO:61:SER:HB2	10:CO:68:GLN:HE21	1.86	0.40
10:CO:78:SER:C	10:CO:81:PHE:HB2	2.46	0.40
8:CR:105:THR:CG2	8:CR:145:VAL:HG11	2.51	0.40
8:CR:117:TRP:CB	8:CR:121:GLU:H	2.32	0.40
9:CS:24:LEU:CD2	10:CT:21:THR:HG23	2.51	0.40
10:CT:115:ASP:OD2	10:CT:121:ARG:HA	2.21	0.40
8:CW:155:LEU:HA	8:CW:155:LEU:HD23	1.76	0.40
9:CX:11:ASP:N	9:CX:12:PRO:CD	2.84	0.40
7:CZ:109:GLN:O	7:CZ:112:HIS:HB2	2.21	0.40
5:Ca:132:PHE:O	5:Ca:133:GLY:C	2.65	0.40
8:Cb:168:ARG:HG2	8:Cb:169:GLY:H	1.86	0.40
9:Cc:28:ILE:HD13	10:Cd:24:ILE:CD1	2.47	0.40
10:Cd:102:THR:O	10:Cd:102:THR:HG22	2.20	0.40
10:Cd:115:ASP:OD2	10:Cd:121:ARG:HA	2.21	0.40
5:Cf:132:PHE:O	5:Cf:133:GLY:C	2.65	0.40
8:Cg:28:LEU:C	8:Cg:28:LEU:CD2	2.93	0.40
8:Cg:53:ARG:HH11	8:Cg:53:ARG:HG3	1.87	0.40
9:Ch:77:ILE:HG23	9:Ch:81:LEU:HD23	2.04	0.40
9:Ch:102:THR:HG23	9:Ch:103:SER:N	2.36	0.40
10:Ci:38:ARG:HB3	10:Ci:38:ARG:HE	1.69	0.40
10:Ci:61:SER:HB2	10:Ci:68:GLN:HE21	1.86	0.40
10:Ci:78:SER:C	10:Ci:81:PHE:HB2	2.46	0.40
10:Ci:115:ASP:OD2	10:Ci:121:ARG:HA	2.21	0.40
9:Cm:50:ILE:O	9:Cm:51:ASP:C	2.64	0.40
5:Cp:49:ILE:C	5:Cp:51:ALA:H	2.29	0.40
8:Cq:53:ARG:HH11	8:Cq:53:ARG:HG3	1.87	0.40
8:Cq:73:VAL:HA	8:Cq:74:PRO:HD3	1.71	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cq:82:PHE:CE1	8:Cq:142:PRO:HG2	2.56	0.40
9:Cr:34:LYS:O	10:Cs:35:LEU:CG	2.60	0.40
9:Cw:42:ASP:CG	10:Cx:38:ARG:HH22	2.29	0.40
9:Cw:43:PRO:C	9:Cw:45:HIS:N	2.79	0.40
10:Cx:115:ASP:OD2	10:Cx:121:ARG:HA	2.21	0.40
3:A2:5:ASP:HB2	3:A2:6:CYS:H	1.75	0.40
4:A4:1:LYS:HZ3	4:A4:128:GLU:HA	1.85	0.40
4:A4:28:ALA:HA	4:A4:31:GLN:HB2	2.02	0.40
3:A7:143:VAL:O	3:A7:144:ALA:C	2.64	0.40
3:AA:63:SER:OG	3:AA:66:PHE:HB3	2.21	0.40
4:AB:105:TYR:O	4:AB:106:PHE:C	2.64	0.40
2:AD:29:HIS:O	2:AD:30:GLU:C	2.65	0.40
4:AL:70:GLY:O	4:AL:73:ASP:HB3	2.21	0.40
2:AN:29:HIS:O	2:AN:30:GLU:C	2.65	0.40
2:AN:104:ARG:HH11	2:AN:104:ARG:HD2	1.73	0.40
2:AN:117:HIS:O	2:AN:118:LEU:C	2.63	0.40
2:AS:29:HIS:O	2:AS:30:GLU:C	2.65	0.40
2:AS:125:ARG:HG2	2:AS:125:ARG:NH1	2.34	0.40
3:AT:64:GLY:HA2	3:AT:67:LYS:HB2	2.02	0.40
3:AU:18:ILE:HG21	3:AU:130:PHE:CE1	2.56	0.40
4:AV:79:LEU:HA	4:AV:85:LEU:HD13	2.03	0.40
1:AW:127:VAL:HG23	1:AW:128:LEU:HG	2.02	0.40
3:AZ:69:HIS:O	3:AZ:70:LEU:C	2.64	0.40
3:AZ:147:ALA:O	3:AZ:151:PRO:HD2	2.20	0.40
4:Aa:4:CYS:SG	4:Aa:136:HIS:CB	3.09	0.40
4:Aa:28:ALA:HA	4:Aa:31:GLN:HB2	2.02	0.40
2:Ac:29:HIS:O	2:Ac:30:GLU:C	2.65	0.40
3:Ad:49:SER:O	3:Ad:50:LYS:C	2.65	0.40
4:Af:105:TYR:O	4:Af:106:PHE:C	2.64	0.40
2:Ah:10:LEU:HB3	2:Ah:13:GLU:CG	2.49	0.40
2:Ah:29:HIS:O	2:Ah:30:GLU:C	2.65	0.40
3:Ai:94:LEU:HD12	3:Ai:94:LEU:HA	1.84	0.40
4:Ak:4:CYS:SG	4:Ak:136:HIS:CB	3.09	0.40
1:Al:96:ASP:O	1:Al:99:ALA:HB3	2.21	0.40
2:Am:61:ILE:HA	2:Am:66:PHE:CD2	2.57	0.40
1:Aq:103:GLU:HA	1:Aq:151:LEU:OXT	2.21	0.40
2:Ar:29:HIS:O	2:Ar:30:GLU:C	2.65	0.40
3:At:18:ILE:HG21	3:At:130:PHE:CE1	2.56	0.40
2:Aw:29:HIS:O	2:Aw:30:GLU:C	2.65	0.40
7:B4:23:TRP:HZ3	7:B4:31:ILE:HG21	1.86	0.40
5:B5:84:LEU:CA	5:B5:90:LEU:HD22	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B5:132:PHE:O	5:B5:133:GLY:C	2.65	0.40
6:B6:49:SER:O	6:B6:50:LYS:C	2.64	0.40
4:B7:123:ARG:HD3	4:B7:123:ARG:N	2.36	0.40
4:BA:59:PRO:HB3	7:BB:89:PRO:HB2	2.04	0.40
7:BB:10:GLU:O	7:BB:11:ASP:C	2.65	0.40
7:BB:23:TRP:HZ3	7:BB:31:ILE:HG21	1.86	0.40
5:BC:57:ARG:HG2	5:BC:57:ARG:NH1	2.36	0.40
5:BC:60:ASN:OD1	5:BC:63:SER:N	2.55	0.40
4:BE:79:LEU:HA	4:BE:85:LEU:CB	2.43	0.40
4:BF:58:HIS:CE1	4:BF:59:PRO:HG2	2.56	0.40
7:BG:40:LEU:HD22	7:BG:54:PHE:CE2	2.56	0.40
6:BI:72:ARG:HD2	5:CG:93:GLN:OE1	2.22	0.40
5:BM:31:ARG:O	5:BM:32:VAL:C	2.63	0.40
5:BM:60:ASN:OD1	5:BM:63:SER:N	2.55	0.40
6:BN:122:VAL:C	6:BN:124:PRO:HD2	2.46	0.40
6:BS:131:ASN:O	6:BS:132:VAL:C	2.64	0.40
4:BT:70:GLY:O	4:BT:73:ASP:HB3	2.21	0.40
7:BV:40:LEU:HD22	7:BV:54:PHE:CE2	2.56	0.40
4:BZ:96:HIS:HD2	4:BZ:101:ILE:CD1	2.35	0.40
5:Bb:84:LEU:CA	5:Bb:90:LEU:HD22	2.52	0.40
6:Bc:72:ARG:HD2	5:Ca:93:GLN:OE1	2.21	0.40
4:Be:58:HIS:CE1	4:Be:59:PRO:HG2	2.56	0.40
7:Bf:10:GLU:O	7:Bf:11:ASP:C	2.65	0.40
5:Bg:60:ASN:OD1	5:Bg:63:SER:N	2.55	0.40
4:Bi:79:LEU:HA	4:Bi:85:LEU:CB	2.43	0.40
7:Bk:40:LEU:HD22	7:Bk:54:PHE:CE2	2.56	0.40
7:Bk:86:ASP:O	7:Bk:87:ASP:HB2	2.22	0.40
5:Bl:18:LYS:NZ	5:Bl:82:SER:HA	2.35	0.40
4:Bo:96:HIS:HD2	4:Bo:101:ILE:CD1	2.35	0.40
5:Bq:60:ASN:OD1	5:Bq:63:SER:N	2.55	0.40
4:Bs:28:ALA:HA	4:Bs:31:GLN:HB2	2.03	0.40
4:Bs:94:VAL:HA	4:Bs:97:GLU:HG2	2.04	0.40
4:Bt:68:VAL:O	4:Bt:69:LEU:C	2.63	0.40
6:Bw:53:PHE:O	6:Bw:56:VAL:HG22	2.22	0.40
4:Bx:70:GLY:O	4:Bx:73:ASP:HB3	2.21	0.40
4:By:62:ILE:HD13	4:By:62:ILE:HA	1.99	0.40
8:C0:172:ASN:CG	8:C0:175:LYS:HB2	2.47	0.40
9:C1:43:PRO:HD3	10:C2:38:ARG:NE	2.36	0.40
5:C4:31:ARG:O	5:C4:32:VAL:C	2.65	0.40
8:C5:70:ARG:HA	8:C5:70:ARG:NH1	2.36	0.40
8:C5:82:PHE:CE1	8:C5:142:PRO:HG2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C5:168:ARG:HG2	8:C5:169:GLY:H	1.86	0.40
9:C6:43:PRO:HD3	10:C7:38:ARG:NE	2.36	0.40
10:C7:102:THR:O	10:C7:102:THR:HG22	2.20	0.40
10:C7:115:ASP:OD2	10:C7:121:ARG:HA	2.21	0.40
10:C7:179:HIS:HA	10:C7:180:PRO:HD3	1.57	0.40
7:CA:109:GLN:O	7:CA:112:HIS:HB2	2.21	0.40
5:CB:31:ARG:O	5:CB:32:VAL:C	2.65	0.40
5:CB:111:PHE:HB3	5:CB:143:ILE:CG2	2.51	0.40
8:CC:35:TYR:HE1	10:CE:34:LEU:CB	2.04	0.40
9:CD:102:THR:HG23	9:CD:103:SER:N	2.36	0.40
10:CE:38:ARG:HB3	10:CE:38:ARG:HE	1.69	0.40
10:CE:115:ASP:OD2	10:CE:121:ARG:HA	2.21	0.40
5:CG:111:PHE:HB3	5:CG:143:ILE:CG2	2.51	0.40
9:CI:42:ASP:CG	10:CJ:38:ARG:HH22	2.29	0.40
9:CI:66:THR:HG22	9:CI:67:PHE:N	2.36	0.40
7:CK:23:TRP:HZ3	7:CK:31:ILE:HG21	1.86	0.40
7:CK:63:GLU:H	7:CK:63:GLU:CD	2.29	0.40
8:CM:172:ASN:ND2	8:CM:174:GLY:H	2.18	0.40
9:CN:11:ASP:N	9:CN:12:PRO:CD	2.84	0.40
9:CN:24:LEU:CD2	10:CO:21:THR:HG23	2.51	0.40
9:CN:28:ILE:CD1	10:CO:28:ILE:HD11	2.51	0.40
9:CS:42:ASP:HA	9:CS:43:PRO:HD2	1.73	0.40
9:CS:42:ASP:CG	10:CT:38:ARG:HH22	2.29	0.40
9:CS:43:PRO:C	9:CS:45:HIS:N	2.79	0.40
10:CT:18:ILE:CG2	10:CT:19:GLU:N	2.84	0.40
10:CT:61:SER:HB2	10:CT:68:GLN:HE21	1.86	0.40
10:CT:78:SER:O	10:CT:81:PHE:CB	2.69	0.40
7:CU:109:GLN:O	7:CU:112:HIS:HB2	2.21	0.40
8:CW:172:ASN:CG	8:CW:175:LYS:HB2	2.47	0.40
9:CX:43:PRO:HD3	10:CY:38:ARG:NE	2.36	0.40
9:CX:57:ILE:CG2	10:CY:57:LEU:HB3	2.51	0.40
10:CY:78:SER:O	10:CY:81:PHE:CB	2.69	0.40
7:CZ:23:TRP:CD2	7:CZ:23:TRP:N	2.90	0.40
5:Ca:31:ARG:O	5:Ca:32:VAL:C	2.65	0.40
8:Cb:82:PHE:CE1	8:Cb:142:PRO:HG2	2.56	0.40
9:Cc:57:ILE:CG2	10:Cd:57:LEU:HB3	2.51	0.40
9:Cc:140:PHE:CB	9:Cc:141:PHE:HA	2.45	0.40
10:Cd:61:SER:HB2	10:Cd:68:GLN:HE21	1.86	0.40
10:Cd:112:VAL:HG22	10:Cd:113:CYS:H	1.86	0.40
7:Ce:109:GLN:O	7:Ce:112:HIS:HB2	2.21	0.40
5:Cf:31:ARG:O	5:Cf:32:VAL:C	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Cf:34:PHE:CD1	5:Cf:34:PHE:C	2.99	0.40
5:Cf:111:PHE:HB3	5:Cf:143:ILE:CG2	2.51	0.40
8:Cg:82:PHE:HD1	8:Cg:83:CYS:CA	2.29	0.40
8:Cg:184:LYS:HG3	8:Cg:185:GLY:CA	2.51	0.40
9:Ch:28:ILE:CD1	10:Ci:24:ILE:HD11	2.49	0.40
10:Ci:109:ILE:HD13	10:Ci:109:ILE:HA	1.92	0.40
5:Ck:111:PHE:HB3	5:Ck:143:ILE:CG2	2.51	0.40
9:Cm:11:ASP:N	9:Cm:12:PRO:CD	2.84	0.40
9:Cm:57:ILE:CG1	10:Cn:57:LEU:HD12	2.44	0.40
9:Cm:66:THR:HG22	9:Cm:67:PHE:N	2.36	0.40
5:Cp:83:MET:HG3	5:Cp:93:GLN:CB	2.51	0.40
9:Cr:131:THR:HG23	9:Cr:150:LEU:HB3	2.03	0.40
9:Cr:145:ILE:HB	9:Cr:172:TYR:HB3	2.03	0.40
8:Cv:14:VAL:CB	10:Cx:13:ILE:HD13	2.52	0.40
9:Cw:11:ASP:N	9:Cw:12:PRO:CD	2.84	0.40
10:Cx:182:GLU:OE1	10:Cx:184:ASP:HB3	2.22	0.40
3:A2:136:ASN:HD22	3:A2:136:ASN:HA	1.58	0.40
3:A2:145:ARG:HA	3:A2:148:LYS:HD3	2.03	0.40
3:A3:18:ILE:HG21	3:A3:130:PHE:CE1	2.56	0.40
4:A4:1:LYS:HD2	4:A4:131:ASP:CB	2.52	0.40
4:A4:7:LEU:C	4:A4:9:GLY:N	2.78	0.40
2:A6:8:GLU:HG2	2:A6:9:CYS:N	2.27	0.40
2:A6:34:PHE:CD1	2:A6:34:PHE:C	3.00	0.40
3:A7:49:SER:O	3:A7:50:LYS:C	2.65	0.40
3:A7:112:PHE:C	3:A7:114:GLY:N	2.77	0.40
3:AA:104:ARG:HH11	3:AA:104:ARG:HG2	1.87	0.40
4:AB:1:LYS:HD2	4:AB:131:ASP:CB	2.52	0.40
3:AF:147:ALA:O	3:AF:151:PRO:HD2	2.20	0.40
1:AH:74:ILE:CG2	1:AH:75:LEU:N	2.84	0.40
1:AH:96:ASP:O	1:AH:99:ALA:HB3	2.21	0.40
2:AI:61:ILE:HA	2:AI:66:PHE:CD2	2.57	0.40
3:AJ:94:LEU:HD12	3:AJ:94:LEU:HA	1.84	0.40
2:AN:8:GLU:CG	2:AN:9:CYS:H	2.20	0.40
3:AO:104:ARG:HH11	3:AO:104:ARG:HG2	1.87	0.40
3:AP:18:ILE:HG21	3:AP:130:PHE:CE1	2.56	0.40
1:AR:40:LEU:O	1:AR:43:LEU:HB3	2.21	0.40
4:AV:1:LYS:HD2	4:AV:131:ASP:CB	2.52	0.40
3:AY:145:ARG:HA	3:AY:148:LYS:HD3	2.03	0.40
3:AZ:18:ILE:HG21	3:AZ:130:PHE:CE1	2.56	0.40
4:Aa:1:LYS:HD2	4:Aa:131:ASP:CB	2.52	0.40
4:Aa:7:LEU:C	4:Aa:9:GLY:N	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Aa:79:LEU:HA	4:Aa:85:LEU:HD13	2.03	0.40
2:Ac:34:PHE:CD1	2:Ac:34:PHE:C	3.00	0.40
3:Ad:112:PHE:C	3:Ad:114:GLY:N	2.77	0.40
3:Ae:97:LEU:HD23	3:Ae:146:ILE:CD1	2.50	0.40
3:Ae:104:ARG:HH11	3:Ae:104:ARG:HG2	1.87	0.40
4:Af:1:LYS:HD2	4:Af:131:ASP:CB	2.52	0.40
1:Ag:70:HIS:O	1:Ag:71:ALA:C	2.64	0.40
3:Aj:104:ARG:HH11	3:Aj:104:ARG:HG2	1.87	0.40
1:Al:74:ILE:CG2	1:Al:75:LEU:N	2.84	0.40
4:Ap:13:LYS:HE3	4:Ap:77:SER:O	2.22	0.40
4:Ap:28:ALA:HA	4:Ap:31:GLN:HB2	2.02	0.40
3:As:104:ARG:HH11	3:As:104:ARG:HG2	1.87	0.40
4:Au:79:LEU:CD1	4:Au:85:LEU:CD2	2.98	0.40
1:Av:40:LEU:O	1:Av:43:LEU:HB3	2.21	0.40
4:Az:1:LYS:HD2	4:Az:131:ASP:CB	2.52	0.40
4:Az:81:GLN:HA	4:Az:82:PRO:HD2	1.83	0.40
5:B0:117:HIS:O	5:B0:118:LEU:C	2.63	0.40
5:B0:132:PHE:O	5:B0:133:GLY:C	2.65	0.40
4:B3:59:PRO:HB3	7:B4:89:PRO:HB2	2.04	0.40
7:B4:86:ASP:O	7:B4:87:ASP:HB2	2.22	0.40
5:B5:60:ASN:OD1	5:B5:63:SER:N	2.55	0.40
6:B6:48:THR:HB	6:B6:111:TYR:OH	2.22	0.40
4:B7:58:HIS:O	4:B7:59:PRO:C	2.65	0.40
4:BA:48:PHE:CD1	4:BA:48:PHE:N	2.89	0.40
5:BH:18:LYS:NZ	5:BH:82:SER:HA	2.35	0.40
5:BH:125:ARG:HG2	5:BH:125:ARG:NH1	2.36	0.40
6:BI:122:VAL:C	6:BI:124:PRO:HD2	2.46	0.40
6:BI:147:ALA:O	6:BI:150:LEU:N	2.51	0.40
4:BJ:28:ALA:HA	4:BJ:31:GLN:HB2	2.03	0.40
4:BK:7:LEU:C	4:BK:9:GLY:N	2.79	0.40
7:BL:85:LEU:HA	7:BL:91:LEU:HD22	2.02	0.40
4:BO:28:ALA:HA	4:BO:31:GLN:HB2	2.03	0.40
4:BO:58:HIS:CE1	4:BO:59:PRO:HG2	2.56	0.40
4:BO:94:VAL:HA	4:BO:97:GLU:HG2	2.04	0.40
7:BQ:10:GLU:O	7:BQ:11:ASP:C	2.65	0.40
6:BS:53:PHE:O	6:BS:56:VAL:HG22	2.22	0.40
7:BV:64:GLY:O	7:BV:65:PRO:C	2.65	0.40
4:BZ:59:PRO:HB3	7:Ba:89:PRO:HB2	2.04	0.40
6:Bc:48:THR:HB	6:Bc:111:TYR:OH	2.22	0.40
6:Bc:49:SER:O	6:Bc:50:LYS:C	2.64	0.40
6:Bc:144:ALA:O	6:Bc:148:LYS:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Bd:58:HIS:O	4:Bd:59:PRO:C	2.65	0.40
4:Be:59:PRO:HB3	7:Bf:89:PRO:HB2	2.04	0.40
4:Bj:58:HIS:CE1	4:Bj:59:PRO:HG2	2.56	0.40
5:Bl:12:THR:C	5:Bl:14:SER:N	2.79	0.40
6:Bm:72:ARG:HD2	5:Ck:93:GLN:OE1	2.22	0.40
4:Bn:28:ALA:HA	4:Bn:31:GLN:HB2	2.03	0.40
4:Bn:58:HIS:CE1	4:Bn:59:PRO:HG2	2.57	0.40
4:Bo:62:ILE:HD13	4:Bo:62:ILE:HA	1.99	0.40
7:Bp:85:LEU:HA	7:Bp:91:LEU:HD22	2.02	0.40
6:Br:122:VAL:C	6:Br:124:PRO:HD2	2.46	0.40
4:Bs:58:HIS:CE1	4:Bs:59:PRO:HG2	2.56	0.40
7:Bu:10:GLU:O	7:Bu:11:ASP:C	2.65	0.40
7:Bu:47:ILE:HA	7:Bu:48:PRO:HD2	1.97	0.40
5:Bv:14:SER:O	5:Bv:15:LEU:C	2.64	0.40
7:Bz:64:GLY:O	7:Bz:65:PRO:C	2.65	0.40
9:C1:38:ALA:H	10:C2:35:LEU:HD11	1.82	0.40
9:C1:57:ILE:CG2	10:C2:57:LEU:HB3	2.51	0.40
9:C1:77:ILE:HG23	9:C1:81:LEU:HD23	2.04	0.40
7:C3:23:TRP:HZ3	7:C3:31:ILE:HG21	1.86	0.40
9:C6:24:LEU:CD2	10:C7:21:THR:HG23	2.51	0.40
9:C6:57:ILE:CG2	10:C7:57:LEU:HB3	2.51	0.40
10:C7:112:VAL:HG22	10:C7:113:CYS:H	1.86	0.40
8:CC:184:LYS:HG3	8:CC:185:GLY:CA	2.51	0.40
5:CG:12:THR:C	5:CG:14:SER:N	2.78	0.40
8:CH:184:LYS:HG3	8:CH:185:GLY:CA	2.51	0.40
9:CI:11:ASP:N	9:CI:12:PRO:CD	2.84	0.40
9:CI:145:ILE:HB	9:CI:172:TYR:HB3	2.03	0.40
7:CK:50:VAL:HA	7:CK:53:LEU:HD12	2.04	0.40
7:CK:74:ILE:CG2	7:CK:75:LEU:H	2.24	0.40
9:CN:131:THR:HG23	9:CN:150:LEU:HB3	2.03	0.40
9:CN:145:ILE:HB	9:CN:172:TYR:HB3	2.03	0.40
10:CO:179:HIS:HA	10:CO:180:PRO:HD3	1.57	0.40
8:CR:14:VAL:CB	10:CT:13:ILE:HD13	2.52	0.40
9:CS:11:ASP:N	9:CS:12:PRO:CD	2.84	0.40
9:CS:28:ILE:CD1	10:CT:28:ILE:HD11	2.51	0.40
10:CT:182:GLU:OE1	10:CT:184:ASP:HB3	2.22	0.40
5:CV:125:ARG:HG2	5:CV:125:ARG:NH1	2.35	0.40
8:CW:221:ASN:CB	9:CX:74:GLN:HE22	2.35	0.40
9:CX:38:ALA:O	10:CY:38:ARG:CZ	2.69	0.40
9:CX:144:ARG:N	9:CX:144:ARG:HD3	2.36	0.40
10:CY:163:MET:HE3	10:CY:163:MET:HB2	1.98	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Cb:70:ARG:NH1	8:Cb:70:ARG:HA	2.36	0.40
8:Cb:184:LYS:C	8:Cb:186:GLN:H	2.23	0.40
9:Cc:144:ARG:N	9:Cc:144:ARG:HD3	2.36	0.40
8:Cg:28:LEU:HD21	10:Ci:27:SER:CB	2.51	0.40
9:Ch:173:ASN:C	9:Ch:173:ASN:ND2	2.79	0.40
5:Ck:111:PHE:H	5:Ck:111:PHE:HD1	1.68	0.40
8:Cl:14:VAL:CB	10:Cn:13:ILE:HD13	2.52	0.40
8:Cl:87:LYS:HB2	8:Cl:87:LYS:HE2	1.66	0.40
8:Cl:168:ARG:HG2	8:Cl:169:GLY:H	1.86	0.40
9:Cm:42:ASP:CG	10:Cn:38:ARG:HH22	2.29	0.40
10:Cn:78:SER:O	10:Cn:81:PHE:CB	2.69	0.40
7:Co:50:VAL:HA	7:Co:53:LEU:HD12	2.04	0.40
7:Co:63:GLU:H	7:Co:63:GLU:CD	2.29	0.40
7:Co:74:ILE:CG2	7:Co:75:LEU:H	2.24	0.40
8:Cq:172:ASN:ND2	8:Cq:174:GLY:H	2.18	0.40
9:Cr:24:LEU:CD2	10:Cs:21:THR:HG23	2.51	0.40
9:Cr:28:ILE:CD1	10:Cs:28:ILE:HD11	2.51	0.40
10:Cs:61:SER:HB2	10:Cs:68:GLN:HE21	1.86	0.40
10:Cs:78:SER:C	10:Cs:81:PHE:HB2	2.46	0.40
9:Cw:28:ILE:CD1	10:Cx:28:ILE:HD11	2.51	0.40
10:Cx:78:SER:O	10:Cx:81:PHE:CB	2.69	0.40
7:Cy:109:GLN:O	7:Cy:112:HIS:HB2	2.21	0.40
5:Cz:73:VAL:O	5:Cz:74:LEU:C	2.63	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	147/149 (99%)	124 (84%)	22 (15%)	1 (1%)	18	56
1	A5	147/149 (99%)	124 (84%)	22 (15%)	1 (1%)	18	56

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AC	147/149 (99%)	125 (85%)	21 (14%)	1 (1%)	18	56
1	AH	147/149 (99%)	124 (84%)	22 (15%)	1 (1%)	18	56
1	AM	147/149 (99%)	124 (84%)	22 (15%)	1 (1%)	18	56
1	AR	147/149 (99%)	125 (85%)	21 (14%)	1 (1%)	18	56
1	AW	147/149 (99%)	124 (84%)	22 (15%)	1 (1%)	18	56
1	Ab	147/149 (99%)	124 (84%)	22 (15%)	1 (1%)	18	56
1	Ag	147/149 (99%)	125 (85%)	21 (14%)	1 (1%)	18	56
1	Al	147/149 (99%)	124 (84%)	22 (15%)	1 (1%)	18	56
1	Aq	147/149 (99%)	124 (84%)	22 (15%)	1 (1%)	18	56
1	Av	147/149 (99%)	125 (85%)	21 (14%)	1 (1%)	18	56
2	A1	138/140 (99%)	118 (86%)	19 (14%)	1 (1%)	18	56
2	A6	138/140 (99%)	118 (86%)	19 (14%)	1 (1%)	18	56
2	AD	138/140 (99%)	118 (86%)	19 (14%)	1 (1%)	18	56
2	AI	138/140 (99%)	118 (86%)	19 (14%)	1 (1%)	18	56
2	AN	138/140 (99%)	118 (86%)	19 (14%)	1 (1%)	18	56
2	AS	138/140 (99%)	118 (86%)	19 (14%)	1 (1%)	18	56
2	AX	138/140 (99%)	118 (86%)	19 (14%)	1 (1%)	18	56
2	Ac	138/140 (99%)	118 (86%)	19 (14%)	1 (1%)	18	56
2	Ah	138/140 (99%)	118 (86%)	19 (14%)	1 (1%)	18	56
2	Am	138/140 (99%)	118 (86%)	19 (14%)	1 (1%)	18	56
2	Ar	138/140 (99%)	118 (86%)	19 (14%)	1 (1%)	18	56
2	Aw	138/140 (99%)	118 (86%)	19 (14%)	1 (1%)	18	56
3	A2	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	A3	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	A7	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	AA	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	AE	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	AF	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	AJ	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	AK	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	AO	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	AP	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	AT	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	AU	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	AY	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	AZ	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	Ad	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	Ae	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	Ai	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	Aj	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	An	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	Ao	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	As	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	At	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	Ax	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
3	Ay	145/147 (99%)	123 (85%)	18 (12%)	4 (3%)	4	24
4	A4	143/145 (99%)	124 (87%)	19 (13%)	0	100	100
4	AB	143/145 (99%)	124 (87%)	19 (13%)	0	100	100
4	AG	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	AL	143/145 (99%)	124 (87%)	19 (13%)	0	100	100
4	AQ	143/145 (99%)	124 (87%)	19 (13%)	0	100	100
4	AV	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	Aa	143/145 (99%)	124 (87%)	19 (13%)	0	100	100
4	Af	143/145 (99%)	124 (87%)	19 (13%)	0	100	100
4	Ak	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	Ap	143/145 (99%)	124 (87%)	19 (13%)	0	100	100
4	Au	143/145 (99%)	124 (87%)	19 (13%)	0	100	100
4	Az	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	B2	143/145 (99%)	128 (90%)	15 (10%)	0	100	100
4	B3	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	B7	143/145 (99%)	128 (90%)	15 (10%)	0	100	100
4	BA	143/145 (99%)	125 (87%)	18 (13%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	BE	143/145 (99%)	128 (90%)	15 (10%)	0	100	100
4	BF	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	BJ	143/145 (99%)	128 (90%)	15 (10%)	0	100	100
4	BK	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	BO	143/145 (99%)	128 (90%)	15 (10%)	0	100	100
4	BP	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	BT	143/145 (99%)	128 (90%)	15 (10%)	0	100	100
4	BU	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	BY	143/145 (99%)	128 (90%)	15 (10%)	0	100	100
4	BZ	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	Bd	143/145 (99%)	128 (90%)	15 (10%)	0	100	100
4	Be	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	Bi	143/145 (99%)	128 (90%)	15 (10%)	0	100	100
4	Bj	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	Bn	143/145 (99%)	128 (90%)	15 (10%)	0	100	100
4	Bo	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	Bs	143/145 (99%)	128 (90%)	15 (10%)	0	100	100
4	Bt	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
4	Bx	143/145 (99%)	128 (90%)	15 (10%)	0	100	100
4	By	143/145 (99%)	125 (87%)	18 (13%)	0	100	100
5	B0	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	B5	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	BC	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	BH	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	BM	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	BR	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	BW	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	Bb	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	Bg	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	Bl	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	Bq	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	Bv	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	C4	138/158 (87%)	119 (86%)	18 (13%)	1 (1%)	18	56
5	CB	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	CG	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	CL	138/158 (87%)	119 (86%)	18 (13%)	1 (1%)	18	56
5	CQ	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	CV	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	Ca	138/158 (87%)	119 (86%)	18 (13%)	1 (1%)	18	56
5	Cf	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	Ck	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	Cp	138/158 (87%)	119 (86%)	18 (13%)	1 (1%)	18	56
5	Cu	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
5	Cz	138/158 (87%)	118 (86%)	19 (14%)	1 (1%)	18	56
6	B1	145/151 (96%)	119 (82%)	21 (14%)	5 (3%)	3	21
6	B6	145/151 (96%)	119 (82%)	21 (14%)	5 (3%)	3	21
6	BD	145/151 (96%)	119 (82%)	21 (14%)	5 (3%)	3	21
6	BI	145/151 (96%)	119 (82%)	21 (14%)	5 (3%)	3	21
6	BN	145/151 (96%)	119 (82%)	21 (14%)	5 (3%)	3	21
6	BS	145/151 (96%)	119 (82%)	21 (14%)	5 (3%)	3	21
6	BX	145/151 (96%)	119 (82%)	21 (14%)	5 (3%)	3	21
6	Bc	145/151 (96%)	119 (82%)	21 (14%)	5 (3%)	3	21
6	Bh	145/151 (96%)	119 (82%)	21 (14%)	5 (3%)	3	21
6	Bm	145/151 (96%)	119 (82%)	21 (14%)	5 (3%)	3	21
6	Br	145/151 (96%)	119 (82%)	21 (14%)	5 (3%)	3	21
6	Bw	145/151 (96%)	119 (82%)	21 (14%)	5 (3%)	3	21
7	B4	147/170 (86%)	124 (84%)	21 (14%)	2 (1%)	9	40
7	BB	147/170 (86%)	125 (85%)	20 (14%)	2 (1%)	9	40
7	BG	147/170 (86%)	124 (84%)	21 (14%)	2 (1%)	9	40
7	BL	147/170 (86%)	124 (84%)	21 (14%)	2 (1%)	9	40
7	BQ	147/170 (86%)	125 (85%)	20 (14%)	2 (1%)	9	40
7	BV	147/170 (86%)	124 (84%)	21 (14%)	2 (1%)	9	40

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	Ba	147/170 (86%)	124 (84%)	21 (14%)	2 (1%)	9	40
7	Bf	147/170 (86%)	125 (85%)	20 (14%)	2 (1%)	9	40
7	Bk	147/170 (86%)	124 (84%)	21 (14%)	2 (1%)	9	40
7	Bp	147/170 (86%)	124 (84%)	21 (14%)	2 (1%)	9	40
7	Bu	147/170 (86%)	125 (85%)	20 (14%)	2 (1%)	9	40
7	Bz	147/170 (86%)	124 (84%)	21 (14%)	2 (1%)	9	40
7	C3	147/170 (86%)	125 (85%)	21 (14%)	1 (1%)	18	56
7	CA	147/170 (86%)	125 (85%)	21 (14%)	1 (1%)	18	56
7	CF	147/170 (86%)	125 (85%)	21 (14%)	1 (1%)	18	56
7	CK	147/170 (86%)	125 (85%)	21 (14%)	1 (1%)	18	56
7	CP	147/170 (86%)	125 (85%)	21 (14%)	1 (1%)	18	56
7	CU	147/170 (86%)	125 (85%)	21 (14%)	1 (1%)	18	56
7	CZ	147/170 (86%)	125 (85%)	21 (14%)	1 (1%)	18	56
7	Ce	147/170 (86%)	125 (85%)	21 (14%)	1 (1%)	18	56
7	Cj	147/170 (86%)	125 (85%)	21 (14%)	1 (1%)	18	56
7	Co	147/170 (86%)	125 (85%)	21 (14%)	1 (1%)	18	56
7	Ct	147/170 (86%)	125 (85%)	21 (14%)	1 (1%)	18	56
7	Cy	147/170 (86%)	125 (85%)	21 (14%)	1 (1%)	18	56
8	C0	211/240 (88%)	190 (90%)	17 (8%)	4 (2%)	6	32
8	C5	211/240 (88%)	190 (90%)	17 (8%)	4 (2%)	6	32
8	CC	211/240 (88%)	190 (90%)	17 (8%)	4 (2%)	6	32
8	CH	211/240 (88%)	190 (90%)	17 (8%)	4 (2%)	6	32
8	CM	211/240 (88%)	190 (90%)	17 (8%)	4 (2%)	6	32
8	CR	211/240 (88%)	190 (90%)	17 (8%)	4 (2%)	6	32
8	CW	211/240 (88%)	190 (90%)	17 (8%)	4 (2%)	6	32
8	Cb	211/240 (88%)	190 (90%)	17 (8%)	4 (2%)	6	32
8	Cg	211/240 (88%)	190 (90%)	17 (8%)	4 (2%)	6	32
8	Cl	211/240 (88%)	190 (90%)	17 (8%)	4 (2%)	6	32
8	Cq	211/240 (88%)	190 (90%)	17 (8%)	4 (2%)	6	32
8	Cv	211/240 (88%)	190 (90%)	17 (8%)	4 (2%)	6	32
9	C1	216/288 (75%)	201 (93%)	13 (6%)	2 (1%)	14	51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
9	C6	216/288 (75%)	201 (93%)	13 (6%)	2 (1%)	14	51
9	CD	216/288 (75%)	201 (93%)	13 (6%)	2 (1%)	14	51
9	CI	216/288 (75%)	201 (93%)	13 (6%)	2 (1%)	14	51
9	CN	216/288 (75%)	201 (93%)	13 (6%)	2 (1%)	14	51
9	CS	216/288 (75%)	201 (93%)	13 (6%)	2 (1%)	14	51
9	CX	216/288 (75%)	201 (93%)	13 (6%)	2 (1%)	14	51
9	Cc	216/288 (75%)	201 (93%)	13 (6%)	2 (1%)	14	51
9	Ch	216/288 (75%)	201 (93%)	13 (6%)	2 (1%)	14	51
9	Cm	216/288 (75%)	201 (93%)	13 (6%)	2 (1%)	14	51
9	Cr	216/288 (75%)	201 (93%)	13 (6%)	2 (1%)	14	51
9	Cw	216/288 (75%)	201 (93%)	13 (6%)	2 (1%)	14	51
10	C2	213/240 (89%)	184 (86%)	23 (11%)	6 (3%)	4	24
10	C7	213/240 (89%)	184 (86%)	23 (11%)	6 (3%)	4	24
10	CE	213/240 (89%)	184 (86%)	23 (11%)	6 (3%)	4	24
10	CJ	213/240 (89%)	184 (86%)	23 (11%)	6 (3%)	4	24
10	CO	213/240 (89%)	184 (86%)	23 (11%)	6 (3%)	4	24
10	CT	213/240 (89%)	184 (86%)	23 (11%)	6 (3%)	4	24
10	CY	213/240 (89%)	184 (86%)	23 (11%)	6 (3%)	4	24
10	Cd	213/240 (89%)	184 (86%)	23 (11%)	6 (3%)	4	24
10	Ci	213/240 (89%)	184 (86%)	23 (11%)	6 (3%)	4	24
10	Cn	213/240 (89%)	184 (86%)	23 (11%)	6 (3%)	4	24
10	Cs	213/240 (89%)	184 (86%)	23 (11%)	6 (3%)	4	24
10	Cx	213/240 (89%)	184 (86%)	23 (11%)	6 (3%)	4	24
All	All	28308/31116 (91%)	24544 (87%)	3380 (12%)	384 (1%)	11	40

All (384) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	A2	29	ASP
3	A2	87	THR
3	A3	87	THR
3	A7	29	ASP
3	A7	87	THR
3	AA	87	THR

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Mol	Chain	Res	Type
3	AE	29	ASP
3	AE	87	THR
3	AF	87	THR
3	AJ	29	ASP
3	AJ	87	THR
3	AK	87	THR
3	AO	29	ASP
3	AO	87	THR
3	AP	87	THR
3	AT	29	ASP
3	AT	87	THR
3	AU	87	THR
3	AY	29	ASP
3	AY	87	THR
3	AZ	87	THR
3	Ad	29	ASP
3	Ad	87	THR
3	Ae	87	THR
3	Ai	29	ASP
3	Ai	87	THR
3	Aj	87	THR
3	An	29	ASP
3	An	87	THR
3	Ao	87	THR
3	As	29	ASP
3	As	87	THR
3	At	87	THR
3	Ax	29	ASP
3	Ax	87	THR
3	Ay	87	THR
6	B1	87	THR
7	B4	7	CYS
6	B6	87	THR
7	BB	7	CYS
6	BD	87	THR
7	BG	7	CYS
6	BI	87	THR
7	BL	7	CYS
6	BN	87	THR
7	BQ	7	CYS
6	BS	87	THR
7	BV	7	CYS

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Mol	Chain	Res	Type
6	BX	87	THR
7	Ba	7	CYS
6	Bc	87	THR
7	Bf	7	CYS
6	Bh	87	THR
7	Bk	7	CYS
6	Bm	87	THR
7	Bp	7	CYS
6	Br	87	THR
7	Bu	7	CYS
6	Bw	87	THR
7	Bz	7	CYS
8	C0	212	SER
10	C2	58	GLU
8	C5	212	SER
10	C7	58	GLU
8	CC	212	SER
10	CE	58	GLU
8	CH	212	SER
10	CJ	58	GLU
8	CM	212	SER
10	CO	58	GLU
8	CR	212	SER
10	CT	58	GLU
8	CW	212	SER
10	CY	58	GLU
8	Cb	212	SER
10	Cd	58	GLU
8	Cg	212	SER
10	Ci	58	GLU
8	Cl	212	SER
10	Cn	58	GLU
8	Cq	212	SER
10	Cs	58	GLU
8	Cv	212	SER
10	Cx	58	GLU
3	A3	29	ASP
3	AA	29	ASP
3	AF	29	ASP
3	AK	29	ASP
3	AP	29	ASP
3	AU	29	ASP

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Mol	Chain	Res	Type
3	AZ	29	ASP
3	Ae	29	ASP
3	Aj	29	ASP
3	Ao	29	ASP
3	At	29	ASP
3	Ay	29	ASP
6	B1	24	SER
6	B1	29	ASP
6	B6	24	SER
6	B6	29	ASP
6	BD	24	SER
6	BD	29	ASP
6	BI	24	SER
6	BI	29	ASP
6	BN	24	SER
6	BN	29	ASP
6	BS	24	SER
6	BS	29	ASP
6	BX	24	SER
6	BX	29	ASP
6	Bc	24	SER
6	Bc	29	ASP
6	Bh	24	SER
6	Bh	29	ASP
6	Bm	24	SER
6	Bm	29	ASP
6	Br	24	SER
6	Br	29	ASP
6	Bw	24	SER
6	Bw	29	ASP
8	C0	184	LYS
10	C2	94	ASP
8	C5	184	LYS
10	C7	94	ASP
8	CC	184	LYS
10	CE	94	ASP
8	CH	184	LYS
10	CJ	94	ASP
8	CM	184	LYS
10	CO	94	ASP
8	CR	184	LYS
10	CT	94	ASP

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Mol	Chain	Res	Type
8	CW	184	LYS
10	CY	94	ASP
8	Cb	184	LYS
10	Cd	94	ASP
8	Cg	184	LYS
10	Ci	94	ASP
8	Cl	184	LYS
10	Cn	94	ASP
8	Cq	184	LYS
10	Cs	94	ASP
8	Cv	184	LYS
10	Cx	94	ASP
1	A0	87	ASP
1	A5	87	ASP
1	AC	87	ASP
1	AH	87	ASP
1	AM	87	ASP
1	AR	87	ASP
1	AW	87	ASP
1	Ab	87	ASP
1	Ag	87	ASP
1	Al	87	ASP
1	Aq	87	ASP
1	Av	87	ASP
9	C1	198	ASN
10	C2	114	PHE
9	C6	198	ASN
10	C7	114	PHE
9	CD	198	ASN
10	CE	114	PHE
9	CI	198	ASN
10	CJ	114	PHE
9	CN	198	ASN
10	CO	114	PHE
9	CS	198	ASN
10	CT	114	PHE
9	CX	198	ASN
10	CY	114	PHE
9	Cc	198	ASN
10	Cd	114	PHE
9	Ch	198	ASN
10	Ci	114	PHE

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Mol	Chain	Res	Type
9	Cm	198	ASN
10	Cn	114	PHE
9	Cr	198	ASN
10	Cs	114	PHE
9	Cw	198	ASN
10	Cx	114	PHE
3	A2	20	ASP
3	A7	20	ASP
3	AE	20	ASP
3	AJ	20	ASP
3	AO	20	ASP
3	AT	20	ASP
3	AY	20	ASP
3	Ad	20	ASP
3	Ai	20	ASP
3	An	20	ASP
3	As	20	ASP
3	Ax	20	ASP
5	B0	57	ARG
6	B1	20	ASP
7	B4	87	ASP
5	B5	57	ARG
7	BB	87	ASP
5	BC	57	ARG
6	BD	20	ASP
7	BG	87	ASP
5	BH	57	ARG
6	BI	20	ASP
7	BL	87	ASP
5	BM	57	ARG
7	BQ	87	ASP
5	BR	57	ARG
6	BS	20	ASP
7	BV	87	ASP
5	BW	57	ARG
6	BX	20	ASP
7	Ba	87	ASP
5	Bb	57	ARG
7	Bf	87	ASP
5	Bg	57	ARG
6	Bh	20	ASP
7	Bk	87	ASP

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Mol	Chain	Res	Type
5	Bl	57	ARG
6	Bm	20	ASP
7	Bp	87	ASP
5	Bq	57	ARG
7	Bu	87	ASP
5	Bv	57	ARG
6	Bw	20	ASP
7	Bz	87	ASP
10	C2	113	CYS
10	C2	121	ARG
7	C3	87	ASP
10	C7	113	CYS
10	C7	121	ARG
7	CA	87	ASP
10	CE	113	CYS
10	CE	121	ARG
7	CF	87	ASP
10	CJ	113	CYS
10	CJ	121	ARG
7	CK	87	ASP
10	CO	113	CYS
10	CO	121	ARG
7	CP	87	ASP
10	CT	113	CYS
10	CT	121	ARG
7	CU	87	ASP
10	CY	113	CYS
10	CY	121	ARG
7	CZ	87	ASP
10	Cd	113	CYS
10	Cd	121	ARG
7	Ce	87	ASP
10	Ci	113	CYS
10	Ci	121	ARG
7	Cj	87	ASP
10	Cn	113	CYS
10	Cn	121	ARG
7	Co	87	ASP
10	Cs	113	CYS
10	Cs	121	ARG
7	Ct	87	ASP
10	Cx	113	CYS

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Mol	Chain	Res	Type
10	Cx	121	ARG
7	Cy	87	ASP
2	A1	57	ARG
3	A3	20	ASP
3	A3	82	ASN
2	A6	57	ARG
3	AA	20	ASP
3	AA	82	ASN
2	AD	57	ARG
3	AF	20	ASP
3	AF	82	ASN
2	AI	57	ARG
3	AK	20	ASP
3	AK	82	ASN
2	AN	57	ARG
3	AP	20	ASP
3	AP	82	ASN
2	AS	57	ARG
3	AU	20	ASP
3	AU	82	ASN
2	AX	57	ARG
3	AZ	20	ASP
3	AZ	82	ASN
2	Ac	57	ARG
3	Ae	20	ASP
3	Ae	82	ASN
2	Ah	57	ARG
3	Aj	20	ASP
3	Aj	82	ASN
2	Am	57	ARG
3	Ao	20	ASP
3	Ao	82	ASN
2	Ar	57	ARG
3	At	20	ASP
3	At	82	ASN
2	Aw	57	ARG
3	Ay	20	ASP
3	Ay	82	ASN
6	B6	20	ASP
6	BD	82	ASN
6	BN	20	ASP
6	BS	82	ASN

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Mol	Chain	Res	Type
6	Bc	20	ASP
6	Bh	82	ASN
6	Br	20	ASP
6	Bw	82	ASN
8	C0	12	TYR
5	C4	57	ARG
8	C5	12	TYR
5	CB	57	ARG
8	CC	12	TYR
5	CG	57	ARG
8	CH	12	TYR
5	CL	57	ARG
8	CM	12	TYR
5	CQ	57	ARG
8	CR	12	TYR
5	CV	57	ARG
8	CW	12	TYR
5	Ca	57	ARG
8	Cb	12	TYR
5	Cf	57	ARG
8	Cg	12	TYR
5	Ck	57	ARG
8	Cl	12	TYR
5	Cp	57	ARG
8	Cq	12	TYR
5	Cu	57	ARG
8	Cv	12	TYR
5	Cz	57	ARG
3	A2	82	ASN
3	A7	82	ASN
3	AE	82	ASN
3	AJ	82	ASN
3	AO	82	ASN
3	AT	82	ASN
3	AY	82	ASN
3	Ad	82	ASN
3	Ai	82	ASN
3	An	82	ASN
3	As	82	ASN
3	Ax	82	ASN
6	B1	82	ASN
6	B6	82	ASN

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Mol	Chain	Res	Type
6	BI	82	ASN
6	BN	82	ASN
6	BX	82	ASN
6	Bc	82	ASN
6	Bm	82	ASN
6	Br	82	ASN
9	C1	12	PRO
9	C6	12	PRO
9	CD	12	PRO
9	CI	12	PRO
9	CN	12	PRO
9	CS	12	PRO
9	CX	12	PRO
9	Cc	12	PRO
9	Ch	12	PRO
9	Cm	12	PRO
9	Cr	12	PRO
9	Cw	12	PRO
10	C2	71	GLY
10	C7	71	GLY
10	CE	71	GLY
10	CJ	71	GLY
10	CO	71	GLY
10	CT	71	GLY
10	CY	71	GLY
10	Cd	71	GLY
10	Ci	71	GLY
10	Cn	71	GLY
10	Cs	71	GLY
10	Cx	71	GLY
8	C0	216	VAL
8	C5	216	VAL
8	CC	216	VAL
8	CH	216	VAL
8	CM	216	VAL
8	CR	216	VAL
8	CW	216	VAL
8	Cb	216	VAL
8	Cg	216	VAL
8	Cl	216	VAL
8	Cq	216	VAL
8	Cv	216	VAL

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	128/128 (100%)	119 (93%)	9 (7%)	14	35
1	A5	128/128 (100%)	119 (93%)	9 (7%)	14	35
1	AC	128/128 (100%)	119 (93%)	9 (7%)	14	35
1	AH	128/128 (100%)	119 (93%)	9 (7%)	14	35
1	AM	128/128 (100%)	119 (93%)	9 (7%)	14	35
1	AR	128/128 (100%)	119 (93%)	9 (7%)	14	35
1	AW	128/128 (100%)	119 (93%)	9 (7%)	14	35
1	Ab	128/128 (100%)	119 (93%)	9 (7%)	14	35
1	Ag	128/128 (100%)	119 (93%)	9 (7%)	14	35
1	Al	128/128 (100%)	119 (93%)	9 (7%)	14	35
1	Aq	128/128 (100%)	119 (93%)	9 (7%)	14	35
1	Av	128/128 (100%)	119 (93%)	9 (7%)	14	35
2	A1	121/121 (100%)	108 (89%)	13 (11%)	6	21
2	A6	121/121 (100%)	108 (89%)	13 (11%)	6	21
2	AD	121/121 (100%)	108 (89%)	13 (11%)	6	21
2	AI	121/121 (100%)	108 (89%)	13 (11%)	6	21
2	AN	121/121 (100%)	108 (89%)	13 (11%)	6	21
2	AS	121/121 (100%)	108 (89%)	13 (11%)	6	21
2	AX	121/121 (100%)	108 (89%)	13 (11%)	6	21
2	Ac	121/121 (100%)	108 (89%)	13 (11%)	6	21
2	Ah	121/121 (100%)	108 (89%)	13 (11%)	6	21
2	Am	121/121 (100%)	108 (89%)	13 (11%)	6	21
2	Ar	121/121 (100%)	108 (89%)	13 (11%)	6	21
2	Aw	121/121 (100%)	108 (89%)	13 (11%)	6	21
3	A2	131/131 (100%)	115 (88%)	16 (12%)	5	17
3	A3	131/131 (100%)	118 (90%)	13 (10%)	7	24

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	A7	131/131 (100%)	115 (88%)	16 (12%)	5	17
3	AA	131/131 (100%)	118 (90%)	13 (10%)	7	24
3	AE	131/131 (100%)	115 (88%)	16 (12%)	5	17
3	AF	131/131 (100%)	118 (90%)	13 (10%)	7	24
3	AJ	131/131 (100%)	115 (88%)	16 (12%)	5	17
3	AK	131/131 (100%)	118 (90%)	13 (10%)	7	24
3	AO	131/131 (100%)	115 (88%)	16 (12%)	5	17
3	AP	131/131 (100%)	118 (90%)	13 (10%)	7	24
3	AT	131/131 (100%)	115 (88%)	16 (12%)	5	17
3	AU	131/131 (100%)	118 (90%)	13 (10%)	7	24
3	AY	131/131 (100%)	115 (88%)	16 (12%)	5	17
3	AZ	131/131 (100%)	118 (90%)	13 (10%)	7	24
3	Ad	131/131 (100%)	115 (88%)	16 (12%)	5	17
3	Ae	131/131 (100%)	118 (90%)	13 (10%)	7	24
3	Ai	131/131 (100%)	115 (88%)	16 (12%)	5	17
3	Aj	131/131 (100%)	118 (90%)	13 (10%)	7	24
3	An	131/131 (100%)	115 (88%)	16 (12%)	5	17
3	Ao	131/131 (100%)	118 (90%)	13 (10%)	7	24
3	As	131/131 (100%)	115 (88%)	16 (12%)	5	17
3	At	131/131 (100%)	118 (90%)	13 (10%)	7	24
3	Ax	131/131 (100%)	115 (88%)	16 (12%)	5	17
3	Ay	131/131 (100%)	118 (90%)	13 (10%)	7	24
4	A4	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	AB	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	AG	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	AL	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	AQ	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	AV	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	Aa	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	Af	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	Ak	117/117 (100%)	105 (90%)	12 (10%)	7	23

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	Ap	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	Au	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	Az	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	B2	117/117 (100%)	107 (92%)	10 (8%)	10	29
4	B3	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	B7	117/117 (100%)	107 (92%)	10 (8%)	10	29
4	BA	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	BE	117/117 (100%)	107 (92%)	10 (8%)	10	29
4	BF	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	BJ	117/117 (100%)	107 (92%)	10 (8%)	10	29
4	BK	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	BO	117/117 (100%)	107 (92%)	10 (8%)	10	29
4	BP	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	BT	117/117 (100%)	107 (92%)	10 (8%)	10	29
4	BU	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	BY	117/117 (100%)	107 (92%)	10 (8%)	10	29
4	BZ	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	Bd	117/117 (100%)	107 (92%)	10 (8%)	10	29
4	Be	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	Bi	117/117 (100%)	107 (92%)	10 (8%)	10	29
4	Bj	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	Bn	117/117 (100%)	107 (92%)	10 (8%)	10	29
4	Bo	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	Bs	117/117 (100%)	107 (92%)	10 (8%)	10	29
4	Bt	117/117 (100%)	105 (90%)	12 (10%)	7	23
4	Bx	117/117 (100%)	107 (92%)	10 (8%)	10	29
4	By	117/117 (100%)	105 (90%)	12 (10%)	7	23
5	B0	121/135 (90%)	111 (92%)	10 (8%)	10	30
5	B5	121/135 (90%)	111 (92%)	10 (8%)	10	30
5	BC	121/135 (90%)	111 (92%)	10 (8%)	10	30
5	BH	121/135 (90%)	111 (92%)	10 (8%)	10	30

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	BM	121/135 (90%)	111 (92%)	10 (8%)	10	30
5	BR	121/135 (90%)	111 (92%)	10 (8%)	10	30
5	BW	121/135 (90%)	111 (92%)	10 (8%)	10	30
5	Bb	121/135 (90%)	111 (92%)	10 (8%)	10	30
5	Bg	121/135 (90%)	111 (92%)	10 (8%)	10	30
5	Bl	121/135 (90%)	111 (92%)	10 (8%)	10	30
5	Bq	121/135 (90%)	111 (92%)	10 (8%)	10	30
5	Bv	121/135 (90%)	111 (92%)	10 (8%)	10	30
5	C4	121/135 (90%)	113 (93%)	8 (7%)	15	37
5	CB	121/135 (90%)	113 (93%)	8 (7%)	15	37
5	CG	121/135 (90%)	113 (93%)	8 (7%)	15	37
5	CL	121/135 (90%)	113 (93%)	8 (7%)	15	37
5	CQ	121/135 (90%)	113 (93%)	8 (7%)	15	37
5	CV	121/135 (90%)	113 (93%)	8 (7%)	15	37
5	Ca	121/135 (90%)	113 (93%)	8 (7%)	15	37
5	Cf	121/135 (90%)	113 (93%)	8 (7%)	15	37
5	Ck	121/135 (90%)	113 (93%)	8 (7%)	15	37
5	Cp	121/135 (90%)	113 (93%)	8 (7%)	15	37
5	Cu	121/135 (90%)	113 (93%)	8 (7%)	15	37
5	Cz	121/135 (90%)	113 (93%)	8 (7%)	15	37
6	B1	131/134 (98%)	116 (88%)	15 (12%)	5	18
6	B6	131/134 (98%)	116 (88%)	15 (12%)	5	18
6	BD	131/134 (98%)	116 (88%)	15 (12%)	5	18
6	BI	131/134 (98%)	116 (88%)	15 (12%)	5	18
6	BN	131/134 (98%)	116 (88%)	15 (12%)	5	18
6	BS	131/134 (98%)	116 (88%)	15 (12%)	5	18
6	BX	131/134 (98%)	116 (88%)	15 (12%)	5	18
6	Bc	131/134 (98%)	116 (88%)	15 (12%)	5	18
6	Bh	131/134 (98%)	116 (88%)	15 (12%)	5	18
6	Bm	131/134 (98%)	116 (88%)	15 (12%)	5	18
6	Br	131/134 (98%)	116 (88%)	15 (12%)	5	18

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	Bw	131/134 (98%)	116 (88%)	15 (12%)	5	18
7	B4	128/145 (88%)	119 (93%)	9 (7%)	14	35
7	BB	128/145 (88%)	119 (93%)	9 (7%)	14	35
7	BG	128/145 (88%)	119 (93%)	9 (7%)	14	35
7	BL	128/145 (88%)	119 (93%)	9 (7%)	14	35
7	BQ	128/145 (88%)	119 (93%)	9 (7%)	14	35
7	BV	128/145 (88%)	119 (93%)	9 (7%)	14	35
7	Ba	128/145 (88%)	119 (93%)	9 (7%)	14	35
7	Bf	128/145 (88%)	119 (93%)	9 (7%)	14	35
7	Bk	128/145 (88%)	119 (93%)	9 (7%)	14	35
7	Bp	128/145 (88%)	119 (93%)	9 (7%)	14	35
7	Bu	128/145 (88%)	119 (93%)	9 (7%)	14	35
7	Bz	128/145 (88%)	119 (93%)	9 (7%)	14	35
7	C3	128/145 (88%)	118 (92%)	10 (8%)	11	32
7	CA	128/145 (88%)	118 (92%)	10 (8%)	11	32
7	CF	128/145 (88%)	118 (92%)	10 (8%)	11	32
7	CK	128/145 (88%)	118 (92%)	10 (8%)	11	32
7	CP	128/145 (88%)	118 (92%)	10 (8%)	11	32
7	CU	128/145 (88%)	118 (92%)	10 (8%)	11	32
7	CZ	128/145 (88%)	118 (92%)	10 (8%)	11	32
7	Ce	128/145 (88%)	118 (92%)	10 (8%)	11	32
7	Cj	128/145 (88%)	118 (92%)	10 (8%)	11	32
7	Co	128/145 (88%)	118 (92%)	10 (8%)	11	32
7	Ct	128/145 (88%)	118 (92%)	10 (8%)	11	32
7	Cy	128/145 (88%)	118 (92%)	10 (8%)	11	32
8	C0	195/212 (92%)	147 (75%)	48 (25%)	1	4
8	C5	195/212 (92%)	147 (75%)	48 (25%)	1	4
8	CC	195/212 (92%)	147 (75%)	48 (25%)	1	4
8	CH	195/212 (92%)	147 (75%)	48 (25%)	1	4
8	CM	195/212 (92%)	147 (75%)	48 (25%)	1	4
8	CR	195/212 (92%)	147 (75%)	48 (25%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	CW	195/212 (92%)	147 (75%)	48 (25%)	1	4
8	Cb	195/212 (92%)	147 (75%)	48 (25%)	1	4
8	Cg	195/212 (92%)	147 (75%)	48 (25%)	1	4
8	Cl	195/212 (92%)	147 (75%)	48 (25%)	1	4
8	Cq	195/212 (92%)	147 (75%)	48 (25%)	1	4
8	Cv	195/212 (92%)	147 (75%)	48 (25%)	1	4
9	C1	193/241 (80%)	155 (80%)	38 (20%)	1	7
9	C6	193/241 (80%)	155 (80%)	38 (20%)	1	7
9	CD	193/241 (80%)	155 (80%)	38 (20%)	1	7
9	CI	193/241 (80%)	155 (80%)	38 (20%)	1	7
9	CN	193/241 (80%)	155 (80%)	38 (20%)	1	7
9	CS	193/241 (80%)	155 (80%)	38 (20%)	1	7
9	CX	193/241 (80%)	155 (80%)	38 (20%)	1	7
9	Cc	193/241 (80%)	155 (80%)	38 (20%)	1	7
9	Ch	193/241 (80%)	155 (80%)	38 (20%)	1	7
9	Cm	193/241 (80%)	155 (80%)	38 (20%)	1	7
9	Cr	193/241 (80%)	155 (80%)	38 (20%)	1	7
9	Cw	193/241 (80%)	155 (80%)	38 (20%)	1	7
10	C2	193/211 (92%)	165 (86%)	28 (14%)	3	13
10	C7	193/211 (92%)	165 (86%)	28 (14%)	3	13
10	CE	193/211 (92%)	165 (86%)	28 (14%)	3	13
10	CJ	193/211 (92%)	165 (86%)	28 (14%)	3	13
10	CO	193/211 (92%)	165 (86%)	28 (14%)	3	13
10	CT	193/211 (92%)	165 (86%)	28 (14%)	3	13
10	CY	193/211 (92%)	165 (86%)	28 (14%)	3	13
10	Cd	193/211 (92%)	165 (86%)	28 (14%)	3	13
10	Ci	193/211 (92%)	165 (86%)	28 (14%)	3	13
10	Cn	193/211 (92%)	165 (86%)	28 (14%)	3	13
10	Cs	193/211 (92%)	165 (86%)	28 (14%)	3	13
10	Cx	193/211 (92%)	165 (86%)	28 (14%)	3	13
All	All	24864/26640 (93%)	21852 (88%)	3012 (12%)	7	17

All (3012) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A0	7	CYS
1	A0	20	ASP
1	A0	37	ARG
1	A0	45	LYS
1	A0	74	ILE
1	A0	115	LYS
1	A0	129	ASP
1	A0	146	LYS
1	A0	151	LEU
2	A1	19	LEU
2	A1	48	GLU
2	A1	71	GLN
2	A1	82	SER
2	A1	83	MET
2	A1	84	LEU
2	A1	104	ARG
2	A1	106	LEU
2	A1	107	LYS
2	A1	128	THR
2	A1	138	CYS
2	A1	146	ILE
2	A1	147	LYS
3	A2	5	ASP
3	A2	6	CYS
3	A2	7	CYS
3	A2	24	SER
3	A2	26	SER
3	A2	27	PHE
3	A2	48	THR
3	A2	59	ASP
3	A2	65	GLU
3	A2	82	ASN
3	A2	83	LEU
3	A2	121	ARG
3	A2	126	VAL
3	A2	136	ASN
3	A2	149	ASP
3	A2	150	LEU
3	A3	5	ASP
3	A3	8	SER
3	A3	24	SER
3	A3	27	PHE

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Mol	Chain	Res	Type
3	A3	48	THR
3	A3	59	ASP
3	A3	65	GLU
3	A3	82	ASN
3	A3	83	LEU
3	A3	121	ARG
3	A3	126	VAL
3	A3	136	ASN
3	A3	150	LEU
4	A4	1	LYS
4	A4	8	GLU
4	A4	56	THR
4	A4	66	ASP
4	A4	80	ASP
4	A4	90	ASP
4	A4	99	ARG
4	A4	100	LYS
4	A4	101	ILE
4	A4	125	TYR
4	A4	135	ASP
4	A4	145	HIS
1	A5	7	CYS
1	A5	20	ASP
1	A5	37	ARG
1	A5	45	LYS
1	A5	74	ILE
1	A5	115	LYS
1	A5	129	ASP
1	A5	146	LYS
1	A5	151	LEU
2	A6	19	LEU
2	A6	48	GLU
2	A6	71	GLN
2	A6	82	SER
2	A6	83	MET
2	A6	84	LEU
2	A6	104	ARG
2	A6	106	LEU
2	A6	107	LYS
2	A6	128	THR
2	A6	138	CYS
2	A6	146	ILE

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Mol	Chain	Res	Type
2	A6	147	LYS
3	A7	5	ASP
3	A7	6	CYS
3	A7	7	CYS
3	A7	24	SER
3	A7	26	SER
3	A7	27	PHE
3	A7	48	THR
3	A7	59	ASP
3	A7	65	GLU
3	A7	82	ASN
3	A7	83	LEU
3	A7	121	ARG
3	A7	126	VAL
3	A7	136	ASN
3	A7	149	ASP
3	A7	150	LEU
3	AA	5	ASP
3	AA	8	SER
3	AA	24	SER
3	AA	27	PHE
3	AA	48	THR
3	AA	59	ASP
3	AA	65	GLU
3	AA	82	ASN
3	AA	83	LEU
3	AA	121	ARG
3	AA	126	VAL
3	AA	136	ASN
3	AA	150	LEU
4	AB	1	LYS
4	AB	8	GLU
4	AB	56	THR
4	AB	66	ASP
4	AB	80	ASP
4	AB	90	ASP
4	AB	99	ARG
4	AB	100	LYS
4	AB	101	ILE
4	AB	125	TYR
4	AB	135	ASP
4	AB	145	HIS

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Mol	Chain	Res	Type
1	AC	7	CYS
1	AC	20	ASP
1	AC	37	ARG
1	AC	45	LYS
1	AC	74	ILE
1	AC	115	LYS
1	AC	129	ASP
1	AC	146	LYS
1	AC	151	LEU
2	AD	19	LEU
2	AD	48	GLU
2	AD	71	GLN
2	AD	82	SER
2	AD	83	MET
2	AD	84	LEU
2	AD	104	ARG
2	AD	106	LEU
2	AD	107	LYS
2	AD	128	THR
2	AD	138	CYS
2	AD	146	ILE
2	AD	147	LYS
3	AE	5	ASP
3	AE	6	CYS
3	AE	7	CYS
3	AE	24	SER
3	AE	26	SER
3	AE	27	PHE
3	AE	48	THR
3	AE	59	ASP
3	AE	65	GLU
3	AE	82	ASN
3	AE	83	LEU
3	AE	121	ARG
3	AE	126	VAL
3	AE	136	ASN
3	AE	149	ASP
3	AE	150	LEU
3	AF	5	ASP
3	AF	8	SER
3	AF	24	SER
3	AF	27	PHE

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Mol	Chain	Res	Type
3	AF	48	THR
3	AF	59	ASP
3	AF	65	GLU
3	AF	82	ASN
3	AF	83	LEU
3	AF	121	ARG
3	AF	126	VAL
3	AF	136	ASN
3	AF	150	LEU
4	AG	1	LYS
4	AG	8	GLU
4	AG	56	THR
4	AG	66	ASP
4	AG	80	ASP
4	AG	90	ASP
4	AG	99	ARG
4	AG	100	LYS
4	AG	101	ILE
4	AG	125	TYR
4	AG	135	ASP
4	AG	145	HIS
1	AH	7	CYS
1	AH	20	ASP
1	AH	37	ARG
1	AH	45	LYS
1	AH	74	ILE
1	AH	115	LYS
1	AH	129	ASP
1	AH	146	LYS
1	AH	151	LEU
2	AI	19	LEU
2	AI	48	GLU
2	AI	71	GLN
2	AI	82	SER
2	AI	83	MET
2	AI	84	LEU
2	AI	104	ARG
2	AI	106	LEU
2	AI	107	LYS
2	AI	128	THR
2	AI	138	CYS
2	AI	146	ILE

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Mol	Chain	Res	Type
2	AI	147	LYS
3	AJ	5	ASP
3	AJ	6	CYS
3	AJ	7	CYS
3	AJ	24	SER
3	AJ	26	SER
3	AJ	27	PHE
3	AJ	48	THR
3	AJ	59	ASP
3	AJ	65	GLU
3	AJ	82	ASN
3	AJ	83	LEU
3	AJ	121	ARG
3	AJ	126	VAL
3	AJ	136	ASN
3	AJ	149	ASP
3	AJ	150	LEU
3	AK	5	ASP
3	AK	8	SER
3	AK	24	SER
3	AK	27	PHE
3	AK	48	THR
3	AK	59	ASP
3	AK	65	GLU
3	AK	82	ASN
3	AK	83	LEU
3	AK	121	ARG
3	AK	126	VAL
3	AK	136	ASN
3	AK	150	LEU
4	AL	1	LYS
4	AL	8	GLU
4	AL	56	THR
4	AL	66	ASP
4	AL	80	ASP
4	AL	90	ASP
4	AL	99	ARG
4	AL	100	LYS
4	AL	101	ILE
4	AL	125	TYR
4	AL	135	ASP
4	AL	145	HIS

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Mol	Chain	Res	Type
1	AM	7	CYS
1	AM	20	ASP
1	AM	37	ARG
1	AM	45	LYS
1	AM	74	ILE
1	AM	115	LYS
1	AM	129	ASP
1	AM	146	LYS
1	AM	151	LEU
2	AN	19	LEU
2	AN	48	GLU
2	AN	71	GLN
2	AN	82	SER
2	AN	83	MET
2	AN	84	LEU
2	AN	104	ARG
2	AN	106	LEU
2	AN	107	LYS
2	AN	128	THR
2	AN	138	CYS
2	AN	146	ILE
2	AN	147	LYS
3	AO	5	ASP
3	AO	6	CYS
3	AO	7	CYS
3	AO	24	SER
3	AO	26	SER
3	AO	27	PHE
3	AO	48	THR
3	AO	59	ASP
3	AO	65	GLU
3	AO	82	ASN
3	AO	83	LEU
3	AO	121	ARG
3	AO	126	VAL
3	AO	136	ASN
3	AO	149	ASP
3	AO	150	LEU
3	AP	5	ASP
3	AP	8	SER
3	AP	24	SER
3	AP	27	PHE

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Mol	Chain	Res	Type
3	AP	48	THR
3	AP	59	ASP
3	AP	65	GLU
3	AP	82	ASN
3	AP	83	LEU
3	AP	121	ARG
3	AP	126	VAL
3	AP	136	ASN
3	AP	150	LEU
4	AQ	1	LYS
4	AQ	8	GLU
4	AQ	56	THR
4	AQ	66	ASP
4	AQ	80	ASP
4	AQ	90	ASP
4	AQ	99	ARG
4	AQ	100	LYS
4	AQ	101	ILE
4	AQ	125	TYR
4	AQ	135	ASP
4	AQ	145	HIS
1	AR	7	CYS
1	AR	20	ASP
1	AR	37	ARG
1	AR	45	LYS
1	AR	74	ILE
1	AR	115	LYS
1	AR	129	ASP
1	AR	146	LYS
1	AR	151	LEU
2	AS	19	LEU
2	AS	48	GLU
2	AS	71	GLN
2	AS	82	SER
2	AS	83	MET
2	AS	84	LEU
2	AS	104	ARG
2	AS	106	LEU
2	AS	107	LYS
2	AS	128	THR
2	AS	138	CYS
2	AS	146	ILE

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Mol	Chain	Res	Type
2	AS	147	LYS
3	AT	5	ASP
3	AT	6	CYS
3	AT	7	CYS
3	AT	24	SER
3	AT	26	SER
3	AT	27	PHE
3	AT	48	THR
3	AT	59	ASP
3	AT	65	GLU
3	AT	82	ASN
3	AT	83	LEU
3	AT	121	ARG
3	AT	126	VAL
3	AT	136	ASN
3	AT	149	ASP
3	AT	150	LEU
3	AU	5	ASP
3	AU	8	SER
3	AU	24	SER
3	AU	27	PHE
3	AU	48	THR
3	AU	59	ASP
3	AU	65	GLU
3	AU	82	ASN
3	AU	83	LEU
3	AU	121	ARG
3	AU	126	VAL
3	AU	136	ASN
3	AU	150	LEU
4	AV	1	LYS
4	AV	8	GLU
4	AV	56	THR
4	AV	66	ASP
4	AV	80	ASP
4	AV	90	ASP
4	AV	99	ARG
4	AV	100	LYS
4	AV	101	ILE
4	AV	125	TYR
4	AV	135	ASP
4	AV	145	HIS

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Mol	Chain	Res	Type
1	AW	7	CYS
1	AW	20	ASP
1	AW	37	ARG
1	AW	45	LYS
1	AW	74	ILE
1	AW	115	LYS
1	AW	129	ASP
1	AW	146	LYS
1	AW	151	LEU
2	AX	19	LEU
2	AX	48	GLU
2	AX	71	GLN
2	AX	82	SER
2	AX	83	MET
2	AX	84	LEU
2	AX	104	ARG
2	AX	106	LEU
2	AX	107	LYS
2	AX	128	THR
2	AX	138	CYS
2	AX	146	ILE
2	AX	147	LYS
3	AY	5	ASP
3	AY	6	CYS
3	AY	7	CYS
3	AY	24	SER
3	AY	26	SER
3	AY	27	PHE
3	AY	48	THR
3	AY	59	ASP
3	AY	65	GLU
3	AY	82	ASN
3	AY	83	LEU
3	AY	121	ARG
3	AY	126	VAL
3	AY	136	ASN
3	AY	149	ASP
3	AY	150	LEU
3	AZ	5	ASP
3	AZ	8	SER
3	AZ	24	SER
3	AZ	27	PHE

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Mol	Chain	Res	Type
3	AZ	48	THR
3	AZ	59	ASP
3	AZ	65	GLU
3	AZ	82	ASN
3	AZ	83	LEU
3	AZ	121	ARG
3	AZ	126	VAL
3	AZ	136	ASN
3	AZ	150	LEU
4	Aa	1	LYS
4	Aa	8	GLU
4	Aa	56	THR
4	Aa	66	ASP
4	Aa	80	ASP
4	Aa	90	ASP
4	Aa	99	ARG
4	Aa	100	LYS
4	Aa	101	ILE
4	Aa	125	TYR
4	Aa	135	ASP
4	Aa	145	HIS
1	Ab	7	CYS
1	Ab	20	ASP
1	Ab	37	ARG
1	Ab	45	LYS
1	Ab	74	ILE
1	Ab	115	LYS
1	Ab	129	ASP
1	Ab	146	LYS
1	Ab	151	LEU
2	Ac	19	LEU
2	Ac	48	GLU
2	Ac	71	GLN
2	Ac	82	SER
2	Ac	83	MET
2	Ac	84	LEU
2	Ac	104	ARG
2	Ac	106	LEU
2	Ac	107	LYS
2	Ac	128	THR
2	Ac	138	CYS
2	Ac	146	ILE

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Mol	Chain	Res	Type
2	Ac	147	LYS
3	Ad	5	ASP
3	Ad	6	CYS
3	Ad	7	CYS
3	Ad	24	SER
3	Ad	26	SER
3	Ad	27	PHE
3	Ad	48	THR
3	Ad	59	ASP
3	Ad	65	GLU
3	Ad	82	ASN
3	Ad	83	LEU
3	Ad	121	ARG
3	Ad	126	VAL
3	Ad	136	ASN
3	Ad	149	ASP
3	Ad	150	LEU
3	Ae	5	ASP
3	Ae	8	SER
3	Ae	24	SER
3	Ae	27	PHE
3	Ae	48	THR
3	Ae	59	ASP
3	Ae	65	GLU
3	Ae	82	ASN
3	Ae	83	LEU
3	Ae	121	ARG
3	Ae	126	VAL
3	Ae	136	ASN
3	Ae	150	LEU
4	Af	1	LYS
4	Af	8	GLU
4	Af	56	THR
4	Af	66	ASP
4	Af	80	ASP
4	Af	90	ASP
4	Af	99	ARG
4	Af	100	LYS
4	Af	101	ILE
4	Af	125	TYR
4	Af	135	ASP
4	Af	145	HIS

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Mol	Chain	Res	Type
1	Ag	7	CYS
1	Ag	20	ASP
1	Ag	37	ARG
1	Ag	45	LYS
1	Ag	74	ILE
1	Ag	115	LYS
1	Ag	129	ASP
1	Ag	146	LYS
1	Ag	151	LEU
2	Ah	19	LEU
2	Ah	48	GLU
2	Ah	71	GLN
2	Ah	82	SER
2	Ah	83	MET
2	Ah	84	LEU
2	Ah	104	ARG
2	Ah	106	LEU
2	Ah	107	LYS
2	Ah	128	THR
2	Ah	138	CYS
2	Ah	146	ILE
2	Ah	147	LYS
3	Ai	5	ASP
3	Ai	6	CYS
3	Ai	7	CYS
3	Ai	24	SER
3	Ai	26	SER
3	Ai	27	PHE
3	Ai	48	THR
3	Ai	59	ASP
3	Ai	65	GLU
3	Ai	82	ASN
3	Ai	83	LEU
3	Ai	121	ARG
3	Ai	126	VAL
3	Ai	136	ASN
3	Ai	149	ASP
3	Ai	150	LEU
3	Aj	5	ASP
3	Aj	8	SER
3	Aj	24	SER
3	Aj	27	PHE

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Mol	Chain	Res	Type
3	Aj	48	THR
3	Aj	59	ASP
3	Aj	65	GLU
3	Aj	82	ASN
3	Aj	83	LEU
3	Aj	121	ARG
3	Aj	126	VAL
3	Aj	136	ASN
3	Aj	150	LEU
4	Ak	1	LYS
4	Ak	8	GLU
4	Ak	56	THR
4	Ak	66	ASP
4	Ak	80	ASP
4	Ak	90	ASP
4	Ak	99	ARG
4	Ak	100	LYS
4	Ak	101	ILE
4	Ak	125	TYR
4	Ak	135	ASP
4	Ak	145	HIS
1	Al	7	CYS
1	Al	20	ASP
1	Al	37	ARG
1	Al	45	LYS
1	Al	74	ILE
1	Al	115	LYS
1	Al	129	ASP
1	Al	146	LYS
1	Al	151	LEU
2	Am	19	LEU
2	Am	48	GLU
2	Am	71	GLN
2	Am	82	SER
2	Am	83	MET
2	Am	84	LEU
2	Am	104	ARG
2	Am	106	LEU
2	Am	107	LYS
2	Am	128	THR
2	Am	138	CYS
2	Am	146	ILE

Continued on next page...

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Mol	Chain	Res	Type
2	Am	147	LYS
3	An	5	ASP
3	An	6	CYS
3	An	7	CYS
3	An	24	SER
3	An	26	SER
3	An	27	PHE
3	An	48	THR
3	An	59	ASP
3	An	65	GLU
3	An	82	ASN
3	An	83	LEU
3	An	121	ARG
3	An	126	VAL
3	An	136	ASN
3	An	149	ASP
3	An	150	LEU
3	Ao	5	ASP
3	Ao	8	SER
3	Ao	24	SER
3	Ao	27	PHE
3	Ao	48	THR
3	Ao	59	ASP
3	Ao	65	GLU
3	Ao	82	ASN
3	Ao	83	LEU
3	Ao	121	ARG
3	Ao	126	VAL
3	Ao	136	ASN
3	Ao	150	LEU
4	Ap	1	LYS
4	Ap	8	GLU
4	Ap	56	THR
4	Ap	66	ASP
4	Ap	80	ASP
4	Ap	90	ASP
4	Ap	99	ARG
4	Ap	100	LYS
4	Ap	101	ILE
4	Ap	125	TYR
4	Ap	135	ASP
4	Ap	145	HIS

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Mol	Chain	Res	Type
1	Aq	7	CYS
1	Aq	20	ASP
1	Aq	37	ARG
1	Aq	45	LYS
1	Aq	74	ILE
1	Aq	115	LYS
1	Aq	129	ASP
1	Aq	146	LYS
1	Aq	151	LEU
2	Ar	19	LEU
2	Ar	48	GLU
2	Ar	71	GLN
2	Ar	82	SER
2	Ar	83	MET
2	Ar	84	LEU
2	Ar	104	ARG
2	Ar	106	LEU
2	Ar	107	LYS
2	Ar	128	THR
2	Ar	138	CYS
2	Ar	146	ILE
2	Ar	147	LYS
3	As	5	ASP
3	As	6	CYS
3	As	7	CYS
3	As	24	SER
3	As	26	SER
3	As	27	PHE
3	As	48	THR
3	As	59	ASP
3	As	65	GLU
3	As	82	ASN
3	As	83	LEU
3	As	121	ARG
3	As	126	VAL
3	As	136	ASN
3	As	149	ASP
3	As	150	LEU
3	At	5	ASP
3	At	8	SER
3	At	24	SER
3	At	27	PHE

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Mol	Chain	Res	Type
3	At	48	THR
3	At	59	ASP
3	At	65	GLU
3	At	82	ASN
3	At	83	LEU
3	At	121	ARG
3	At	126	VAL
3	At	136	ASN
3	At	150	LEU
4	Au	1	LYS
4	Au	8	GLU
4	Au	56	THR
4	Au	66	ASP
4	Au	80	ASP
4	Au	90	ASP
4	Au	99	ARG
4	Au	100	LYS
4	Au	101	ILE
4	Au	125	TYR
4	Au	135	ASP
4	Au	145	HIS
1	Av	7	CYS
1	Av	20	ASP
1	Av	37	ARG
1	Av	45	LYS
1	Av	74	ILE
1	Av	115	LYS
1	Av	129	ASP
1	Av	146	LYS
1	Av	151	LEU
2	Aw	19	LEU
2	Aw	48	GLU
2	Aw	71	GLN
2	Aw	82	SER
2	Aw	83	MET
2	Aw	84	LEU
2	Aw	104	ARG
2	Aw	106	LEU
2	Aw	107	LYS
2	Aw	128	THR
2	Aw	138	CYS
2	Aw	146	ILE

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Mol	Chain	Res	Type
2	Aw	147	LYS
3	Ax	5	ASP
3	Ax	6	CYS
3	Ax	7	CYS
3	Ax	24	SER
3	Ax	26	SER
3	Ax	27	PHE
3	Ax	48	THR
3	Ax	59	ASP
3	Ax	65	GLU
3	Ax	82	ASN
3	Ax	83	LEU
3	Ax	121	ARG
3	Ax	126	VAL
3	Ax	136	ASN
3	Ax	149	ASP
3	Ax	150	LEU
3	Ay	5	ASP
3	Ay	8	SER
3	Ay	24	SER
3	Ay	27	PHE
3	Ay	48	THR
3	Ay	59	ASP
3	Ay	65	GLU
3	Ay	82	ASN
3	Ay	83	LEU
3	Ay	121	ARG
3	Ay	126	VAL
3	Ay	136	ASN
3	Ay	150	LEU
4	Az	1	LYS
4	Az	8	GLU
4	Az	56	THR
4	Az	66	ASP
4	Az	80	ASP
4	Az	90	ASP
4	Az	99	ARG
4	Az	100	LYS
4	Az	101	ILE
4	Az	125	TYR
4	Az	135	ASP
4	Az	145	HIS

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Mol	Chain	Res	Type
5	B0	9	CYS
5	B0	11	VAL
5	B0	19	LEU
5	B0	48	GLU
5	B0	71	GLN
5	B0	84	LEU
5	B0	105	ASN
5	B0	106	LEU
5	B0	128	THR
5	B0	138	CYS
6	B1	5	ASP
6	B1	7	CYS
6	B1	8	SER
6	B1	24	SER
6	B1	27	PHE
6	B1	48	THR
6	B1	59	ASP
6	B1	65	GLU
6	B1	82	ASN
6	B1	83	LEU
6	B1	121	ARG
6	B1	126	VAL
6	B1	136	ASN
6	B1	148	LYS
6	B1	150	LEU
4	B2	6	VAL
4	B2	8	GLU
4	B2	56	THR
4	B2	66	ASP
4	B2	81	GLN
4	B2	90	ASP
4	B2	100	LYS
4	B2	101	ILE
4	B2	125	TYR
4	B2	135	ASP
4	B3	2	LYS
4	B3	8	GLU
4	B3	56	THR
4	B3	66	ASP
4	B3	80	ASP
4	B3	81	GLN
4	B3	90	ASP

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Mol	Chain	Res	Type
4	B3	99	ARG
4	B3	100	LYS
4	B3	101	ILE
4	B3	125	TYR
4	B3	135	ASP
7	B4	5	HIS
7	B4	8	SER
7	B4	20	ASP
7	B4	37	ARG
7	B4	45	LYS
7	B4	74	ILE
7	B4	115	LYS
7	B4	129	ASP
7	B4	146	LYS
5	B5	9	CYS
5	B5	11	VAL
5	B5	19	LEU
5	B5	48	GLU
5	B5	71	GLN
5	B5	84	LEU
5	B5	105	ASN
5	B5	106	LEU
5	B5	128	THR
5	B5	138	CYS
6	B6	5	ASP
6	B6	7	CYS
6	B6	8	SER
6	B6	24	SER
6	B6	27	PHE
6	B6	48	THR
6	B6	59	ASP
6	B6	65	GLU
6	B6	82	ASN
6	B6	83	LEU
6	B6	121	ARG
6	B6	126	VAL
6	B6	136	ASN
6	B6	148	LYS
6	B6	150	LEU
4	B7	6	VAL
4	B7	8	GLU
4	B7	56	THR

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Mol	Chain	Res	Type
4	B7	66	ASP
4	B7	81	GLN
4	B7	90	ASP
4	B7	100	LYS
4	B7	101	ILE
4	B7	125	TYR
4	B7	135	ASP
4	BA	2	LYS
4	BA	8	GLU
4	BA	56	THR
4	BA	66	ASP
4	BA	80	ASP
4	BA	81	GLN
4	BA	90	ASP
4	BA	99	ARG
4	BA	100	LYS
4	BA	101	ILE
4	BA	125	TYR
4	BA	135	ASP
7	BB	5	HIS
7	BB	8	SER
7	BB	20	ASP
7	BB	37	ARG
7	BB	45	LYS
7	BB	74	ILE
7	BB	115	LYS
7	BB	129	ASP
7	BB	146	LYS
5	BC	9	CYS
5	BC	11	VAL
5	BC	19	LEU
5	BC	48	GLU
5	BC	71	GLN
5	BC	84	LEU
5	BC	105	ASN
5	BC	106	LEU
5	BC	128	THR
5	BC	138	CYS
6	BD	5	ASP
6	BD	7	CYS
6	BD	8	SER
6	BD	24	SER

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Mol	Chain	Res	Type
6	BD	27	PHE
6	BD	48	THR
6	BD	59	ASP
6	BD	65	GLU
6	BD	82	ASN
6	BD	83	LEU
6	BD	121	ARG
6	BD	126	VAL
6	BD	136	ASN
6	BD	148	LYS
6	BD	150	LEU
4	BE	6	VAL
4	BE	8	GLU
4	BE	56	THR
4	BE	66	ASP
4	BE	81	GLN
4	BE	90	ASP
4	BE	100	LYS
4	BE	101	ILE
4	BE	125	TYR
4	BE	135	ASP
4	BF	2	LYS
4	BF	8	GLU
4	BF	56	THR
4	BF	66	ASP
4	BF	80	ASP
4	BF	81	GLN
4	BF	90	ASP
4	BF	99	ARG
4	BF	100	LYS
4	BF	101	ILE
4	BF	125	TYR
4	BF	135	ASP
7	BG	5	HIS
7	BG	8	SER
7	BG	20	ASP
7	BG	37	ARG
7	BG	45	LYS
7	BG	74	ILE
7	BG	115	LYS
7	BG	129	ASP
7	BG	146	LYS

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Mol	Chain	Res	Type
5	BH	9	CYS
5	BH	11	VAL
5	BH	19	LEU
5	BH	48	GLU
5	BH	71	GLN
5	BH	84	LEU
5	BH	105	ASN
5	BH	106	LEU
5	BH	128	THR
5	BH	138	CYS
6	BI	5	ASP
6	BI	7	CYS
6	BI	8	SER
6	BI	24	SER
6	BI	27	PHE
6	BI	48	THR
6	BI	59	ASP
6	BI	65	GLU
6	BI	82	ASN
6	BI	83	LEU
6	BI	121	ARG
6	BI	126	VAL
6	BI	136	ASN
6	BI	148	LYS
6	BI	150	LEU
4	BJ	6	VAL
4	BJ	8	GLU
4	BJ	56	THR
4	BJ	66	ASP
4	BJ	81	GLN
4	BJ	90	ASP
4	BJ	100	LYS
4	BJ	101	ILE
4	BJ	125	TYR
4	BJ	135	ASP
4	BK	2	LYS
4	BK	8	GLU
4	BK	56	THR
4	BK	66	ASP
4	BK	80	ASP
4	BK	81	GLN
4	BK	90	ASP

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Mol	Chain	Res	Type
4	BK	99	ARG
4	BK	100	LYS
4	BK	101	ILE
4	BK	125	TYR
4	BK	135	ASP
7	BL	5	HIS
7	BL	8	SER
7	BL	20	ASP
7	BL	37	ARG
7	BL	45	LYS
7	BL	74	ILE
7	BL	115	LYS
7	BL	129	ASP
7	BL	146	LYS
5	BM	9	CYS
5	BM	11	VAL
5	BM	19	LEU
5	BM	48	GLU
5	BM	71	GLN
5	BM	84	LEU
5	BM	105	ASN
5	BM	106	LEU
5	BM	128	THR
5	BM	138	CYS
6	BN	5	ASP
6	BN	7	CYS
6	BN	8	SER
6	BN	24	SER
6	BN	27	PHE
6	BN	48	THR
6	BN	59	ASP
6	BN	65	GLU
6	BN	82	ASN
6	BN	83	LEU
6	BN	121	ARG
6	BN	126	VAL
6	BN	136	ASN
6	BN	148	LYS
6	BN	150	LEU
4	BO	6	VAL
4	BO	8	GLU
4	BO	56	THR

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Mol	Chain	Res	Type
4	BO	66	ASP
4	BO	81	GLN
4	BO	90	ASP
4	BO	100	LYS
4	BO	101	ILE
4	BO	125	TYR
4	BO	135	ASP
4	BP	2	LYS
4	BP	8	GLU
4	BP	56	THR
4	BP	66	ASP
4	BP	80	ASP
4	BP	81	GLN
4	BP	90	ASP
4	BP	99	ARG
4	BP	100	LYS
4	BP	101	ILE
4	BP	125	TYR
4	BP	135	ASP
7	BQ	5	HIS
7	BQ	8	SER
7	BQ	20	ASP
7	BQ	37	ARG
7	BQ	45	LYS
7	BQ	74	ILE
7	BQ	115	LYS
7	BQ	129	ASP
7	BQ	146	LYS
5	BR	9	CYS
5	BR	11	VAL
5	BR	19	LEU
5	BR	48	GLU
5	BR	71	GLN
5	BR	84	LEU
5	BR	105	ASN
5	BR	106	LEU
5	BR	128	THR
5	BR	138	CYS
6	BS	5	ASP
6	BS	7	CYS
6	BS	8	SER
6	BS	24	SER

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Mol	Chain	Res	Type
6	BS	27	PHE
6	BS	48	THR
6	BS	59	ASP
6	BS	65	GLU
6	BS	82	ASN
6	BS	83	LEU
6	BS	121	ARG
6	BS	126	VAL
6	BS	136	ASN
6	BS	148	LYS
6	BS	150	LEU
4	BT	6	VAL
4	BT	8	GLU
4	BT	56	THR
4	BT	66	ASP
4	BT	81	GLN
4	BT	90	ASP
4	BT	100	LYS
4	BT	101	ILE
4	BT	125	TYR
4	BT	135	ASP
4	BU	2	LYS
4	BU	8	GLU
4	BU	56	THR
4	BU	66	ASP
4	BU	80	ASP
4	BU	81	GLN
4	BU	90	ASP
4	BU	99	ARG
4	BU	100	LYS
4	BU	101	ILE
4	BU	125	TYR
4	BU	135	ASP
7	BV	5	HIS
7	BV	8	SER
7	BV	20	ASP
7	BV	37	ARG
7	BV	45	LYS
7	BV	74	ILE
7	BV	115	LYS
7	BV	129	ASP
7	BV	146	LYS

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Mol	Chain	Res	Type
5	BW	9	CYS
5	BW	11	VAL
5	BW	19	LEU
5	BW	48	GLU
5	BW	71	GLN
5	BW	84	LEU
5	BW	105	ASN
5	BW	106	LEU
5	BW	128	THR
5	BW	138	CYS
6	BX	5	ASP
6	BX	7	CYS
6	BX	8	SER
6	BX	24	SER
6	BX	27	PHE
6	BX	48	THR
6	BX	59	ASP
6	BX	65	GLU
6	BX	82	ASN
6	BX	83	LEU
6	BX	121	ARG
6	BX	126	VAL
6	BX	136	ASN
6	BX	148	LYS
6	BX	150	LEU
4	BY	6	VAL
4	BY	8	GLU
4	BY	56	THR
4	BY	66	ASP
4	BY	81	GLN
4	BY	90	ASP
4	BY	100	LYS
4	BY	101	ILE
4	BY	125	TYR
4	BY	135	ASP
4	BZ	2	LYS
4	BZ	8	GLU
4	BZ	56	THR
4	BZ	66	ASP
4	BZ	80	ASP
4	BZ	81	GLN
4	BZ	90	ASP

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Mol	Chain	Res	Type
4	BZ	99	ARG
4	BZ	100	LYS
4	BZ	101	ILE
4	BZ	125	TYR
4	BZ	135	ASP
7	Ba	5	HIS
7	Ba	8	SER
7	Ba	20	ASP
7	Ba	37	ARG
7	Ba	45	LYS
7	Ba	74	ILE
7	Ba	115	LYS
7	Ba	129	ASP
7	Ba	146	LYS
5	Bb	9	CYS
5	Bb	11	VAL
5	Bb	19	LEU
5	Bb	48	GLU
5	Bb	71	GLN
5	Bb	84	LEU
5	Bb	105	ASN
5	Bb	106	LEU
5	Bb	128	THR
5	Bb	138	CYS
6	Bc	5	ASP
6	Bc	7	CYS
6	Bc	8	SER
6	Bc	24	SER
6	Bc	27	PHE
6	Bc	48	THR
6	Bc	59	ASP
6	Bc	65	GLU
6	Bc	82	ASN
6	Bc	83	LEU
6	Bc	121	ARG
6	Bc	126	VAL
6	Bc	136	ASN
6	Bc	148	LYS
6	Bc	150	LEU
4	Bd	6	VAL
4	Bd	8	GLU
4	Bd	56	THR

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Mol	Chain	Res	Type
4	Bd	66	ASP
4	Bd	81	GLN
4	Bd	90	ASP
4	Bd	100	LYS
4	Bd	101	ILE
4	Bd	125	TYR
4	Bd	135	ASP
4	Be	2	LYS
4	Be	8	GLU
4	Be	56	THR
4	Be	66	ASP
4	Be	80	ASP
4	Be	81	GLN
4	Be	90	ASP
4	Be	99	ARG
4	Be	100	LYS
4	Be	101	ILE
4	Be	125	TYR
4	Be	135	ASP
7	Bf	5	HIS
7	Bf	8	SER
7	Bf	20	ASP
7	Bf	37	ARG
7	Bf	45	LYS
7	Bf	74	ILE
7	Bf	115	LYS
7	Bf	129	ASP
7	Bf	146	LYS
5	Bg	9	CYS
5	Bg	11	VAL
5	Bg	19	LEU
5	Bg	48	GLU
5	Bg	71	GLN
5	Bg	84	LEU
5	Bg	105	ASN
5	Bg	106	LEU
5	Bg	128	THR
5	Bg	138	CYS
6	Bh	5	ASP
6	Bh	7	CYS
6	Bh	8	SER
6	Bh	24	SER

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Mol	Chain	Res	Type
6	Bh	27	PHE
6	Bh	48	THR
6	Bh	59	ASP
6	Bh	65	GLU
6	Bh	82	ASN
6	Bh	83	LEU
6	Bh	121	ARG
6	Bh	126	VAL
6	Bh	136	ASN
6	Bh	148	LYS
6	Bh	150	LEU
4	Bi	6	VAL
4	Bi	8	GLU
4	Bi	56	THR
4	Bi	66	ASP
4	Bi	81	GLN
4	Bi	90	ASP
4	Bi	100	LYS
4	Bi	101	ILE
4	Bi	125	TYR
4	Bi	135	ASP
4	Bj	2	LYS
4	Bj	8	GLU
4	Bj	56	THR
4	Bj	66	ASP
4	Bj	80	ASP
4	Bj	81	GLN
4	Bj	90	ASP
4	Bj	99	ARG
4	Bj	100	LYS
4	Bj	101	ILE
4	Bj	125	TYR
4	Bj	135	ASP
7	Bk	5	HIS
7	Bk	8	SER
7	Bk	20	ASP
7	Bk	37	ARG
7	Bk	45	LYS
7	Bk	74	ILE
7	Bk	115	LYS
7	Bk	129	ASP
7	Bk	146	LYS

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Mol	Chain	Res	Type
5	B1	9	CYS
5	B1	11	VAL
5	B1	19	LEU
5	B1	48	GLU
5	B1	71	GLN
5	B1	84	LEU
5	B1	105	ASN
5	B1	106	LEU
5	B1	128	THR
5	B1	138	CYS
6	Bm	5	ASP
6	Bm	7	CYS
6	Bm	8	SER
6	Bm	24	SER
6	Bm	27	PHE
6	Bm	48	THR
6	Bm	59	ASP
6	Bm	65	GLU
6	Bm	82	ASN
6	Bm	83	LEU
6	Bm	121	ARG
6	Bm	126	VAL
6	Bm	136	ASN
6	Bm	148	LYS
6	Bm	150	LEU
4	Bn	6	VAL
4	Bn	8	GLU
4	Bn	56	THR
4	Bn	66	ASP
4	Bn	81	GLN
4	Bn	90	ASP
4	Bn	100	LYS
4	Bn	101	ILE
4	Bn	125	TYR
4	Bn	135	ASP
4	Bo	2	LYS
4	Bo	8	GLU
4	Bo	56	THR
4	Bo	66	ASP
4	Bo	80	ASP
4	Bo	81	GLN
4	Bo	90	ASP

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Mol	Chain	Res	Type
4	Bo	99	ARG
4	Bo	100	LYS
4	Bo	101	ILE
4	Bo	125	TYR
4	Bo	135	ASP
7	Bp	5	HIS
7	Bp	8	SER
7	Bp	20	ASP
7	Bp	37	ARG
7	Bp	45	LYS
7	Bp	74	ILE
7	Bp	115	LYS
7	Bp	129	ASP
7	Bp	146	LYS
5	Bq	9	CYS
5	Bq	11	VAL
5	Bq	19	LEU
5	Bq	48	GLU
5	Bq	71	GLN
5	Bq	84	LEU
5	Bq	105	ASN
5	Bq	106	LEU
5	Bq	128	THR
5	Bq	138	CYS
6	Br	5	ASP
6	Br	7	CYS
6	Br	8	SER
6	Br	24	SER
6	Br	27	PHE
6	Br	48	THR
6	Br	59	ASP
6	Br	65	GLU
6	Br	82	ASN
6	Br	83	LEU
6	Br	121	ARG
6	Br	126	VAL
6	Br	136	ASN
6	Br	148	LYS
6	Br	150	LEU
4	Bs	6	VAL
4	Bs	8	GLU
4	Bs	56	THR

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Mol	Chain	Res	Type
4	Bs	66	ASP
4	Bs	81	GLN
4	Bs	90	ASP
4	Bs	100	LYS
4	Bs	101	ILE
4	Bs	125	TYR
4	Bs	135	ASP
4	Bt	2	LYS
4	Bt	8	GLU
4	Bt	56	THR
4	Bt	66	ASP
4	Bt	80	ASP
4	Bt	81	GLN
4	Bt	90	ASP
4	Bt	99	ARG
4	Bt	100	LYS
4	Bt	101	ILE
4	Bt	125	TYR
4	Bt	135	ASP
7	Bu	5	HIS
7	Bu	8	SER
7	Bu	20	ASP
7	Bu	37	ARG
7	Bu	45	LYS
7	Bu	74	ILE
7	Bu	115	LYS
7	Bu	129	ASP
7	Bu	146	LYS
5	Bv	9	CYS
5	Bv	11	VAL
5	Bv	19	LEU
5	Bv	48	GLU
5	Bv	71	GLN
5	Bv	84	LEU
5	Bv	105	ASN
5	Bv	106	LEU
5	Bv	128	THR
5	Bv	138	CYS
6	Bw	5	ASP
6	Bw	7	CYS
6	Bw	8	SER
6	Bw	24	SER

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Mol	Chain	Res	Type
6	Bw	27	PHE
6	Bw	48	THR
6	Bw	59	ASP
6	Bw	65	GLU
6	Bw	82	ASN
6	Bw	83	LEU
6	Bw	121	ARG
6	Bw	126	VAL
6	Bw	136	ASN
6	Bw	148	LYS
6	Bw	150	LEU
4	Bx	6	VAL
4	Bx	8	GLU
4	Bx	56	THR
4	Bx	66	ASP
4	Bx	81	GLN
4	Bx	90	ASP
4	Bx	100	LYS
4	Bx	101	ILE
4	Bx	125	TYR
4	Bx	135	ASP
4	By	2	LYS
4	By	8	GLU
4	By	56	THR
4	By	66	ASP
4	By	80	ASP
4	By	81	GLN
4	By	90	ASP
4	By	99	ARG
4	By	100	LYS
4	By	101	ILE
4	By	125	TYR
4	By	135	ASP
7	Bz	5	HIS
7	Bz	8	SER
7	Bz	20	ASP
7	Bz	37	ARG
7	Bz	45	LYS
7	Bz	74	ILE
7	Bz	115	LYS
7	Bz	129	ASP
7	Bz	146	LYS

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Mol	Chain	Res	Type
8	C0	11	GLN
8	C0	13	LEU
8	C0	19	LEU
8	C0	38	LEU
8	C0	42	VAL
8	C0	56	ASN
8	C0	59	GLU
8	C0	60	HIS
8	C0	65	HIS
8	C0	69	CYS
8	C0	70	ARG
8	C0	73	VAL
8	C0	80	LEU
8	C0	81	LEU
8	C0	82	PHE
8	C0	87	LYS
8	C0	90	ARG
8	C0	91	ASP
8	C0	94	ASP
8	C0	96	ASP
8	C0	102	LEU
8	C0	104	ILE
8	C0	112	THR
8	C0	116	THR
8	C0	118	THR
8	C0	131	THR
8	C0	137	ARG
8	C0	139	SER
8	C0	140	PHE
8	C0	143	ASN
8	C0	147	LEU
8	C0	156	ASP
8	C0	159	ASP
8	C0	161	THR
8	C0	163	SER
8	C0	165	THR
8	C0	173	PHE
8	C0	176	ARG
8	C0	183	LEU
8	C0	186	GLN
8	C0	187	SER
8	C0	190	TYR

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Mol	Chain	Res	Type
8	C0	197	ASN
8	C0	198	LEU
8	C0	209	VAL
8	C0	210	VAL
8	C0	216	VAL
8	C0	224	ARG
9	C1	10	LEU
9	C1	32	ARG
9	C1	62	CYS
9	C1	64	LYS
9	C1	73	GLU
9	C1	81	LEU
9	C1	87	LYS
9	C1	90	HIS
9	C1	94	ASP
9	C1	102	THR
9	C1	104	VAL
9	C1	105	VAL
9	C1	110	VAL
9	C1	120	CYS
9	C1	123	ARG
9	C1	127	VAL
9	C1	131	THR
9	C1	137	ARG
9	C1	138	ARG
9	C1	139	LYS
9	C1	140	PHE
9	C1	144	ARG
9	C1	147	LEU
9	C1	153	SER
9	C1	155	LEU
9	C1	176	SER
9	C1	184	THR
9	C1	187	HIS
9	C1	188	ASP
9	C1	190	HIS
9	C1	197	PHE
9	C1	198	ASN
9	C1	199	ARG
9	C1	202	ASN
9	C1	211	THR
9	C1	212	GLU

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Mol	Chain	Res	Type
9	C1	215	LEU
9	C1	221	LEU
10	C2	9	SER
10	C2	11	ASP
10	C2	13	ILE
10	C2	14	ILE
10	C2	16	LYS
10	C2	18	ILE
10	C2	37	ASP
10	C2	61	SER
10	C2	63	ASP
10	C2	72	ASP
10	C2	80	LEU
10	C2	81	PHE
10	C2	82	VAL
10	C2	100	LEU
10	C2	102	THR
10	C2	103	LYS
10	C2	106	ASP
10	C2	114	PHE
10	C2	117	CYS
10	C2	119	LYS
10	C2	139	THR
10	C2	152	SER
10	C2	154	THR
10	C2	176	LEU
10	C2	183	GLU
10	C2	184	ASP
10	C2	197	PHE
10	C2	208	LEU
7	C3	5	HIS
7	C3	6	CYS
7	C3	20	ASP
7	C3	37	ARG
7	C3	45	LYS
7	C3	74	ILE
7	C3	115	LYS
7	C3	129	ASP
7	C3	146	LYS
7	C3	151	LEU
5	C4	8	GLU
5	C4	19	LEU

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Mol	Chain	Res	Type
5	C4	48	GLU
5	C4	71	GLN
5	C4	86	THR
5	C4	106	LEU
5	C4	128	THR
5	C4	138	CYS
8	C5	11	GLN
8	C5	13	LEU
8	C5	19	LEU
8	C5	38	LEU
8	C5	42	VAL
8	C5	56	ASN
8	C5	59	GLU
8	C5	60	HIS
8	C5	65	HIS
8	C5	69	CYS
8	C5	70	ARG
8	C5	73	VAL
8	C5	80	LEU
8	C5	81	LEU
8	C5	82	PHE
8	C5	87	LYS
8	C5	90	ARG
8	C5	91	ASP
8	C5	94	ASP
8	C5	96	ASP
8	C5	102	LEU
8	C5	104	ILE
8	C5	112	THR
8	C5	116	THR
8	C5	118	THR
8	C5	131	THR
8	C5	137	ARG
8	C5	139	SER
8	C5	140	PHE
8	C5	143	ASN
8	C5	147	LEU
8	C5	156	ASP
8	C5	159	ASP
8	C5	161	THR
8	C5	163	SER
8	C5	165	THR

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Mol	Chain	Res	Type
8	C5	173	PHE
8	C5	176	ARG
8	C5	183	LEU
8	C5	186	GLN
8	C5	187	SER
8	C5	190	TYR
8	C5	197	ASN
8	C5	198	LEU
8	C5	209	VAL
8	C5	210	VAL
8	C5	216	VAL
8	C5	224	ARG
9	C6	10	LEU
9	C6	32	ARG
9	C6	62	CYS
9	C6	64	LYS
9	C6	73	GLU
9	C6	81	LEU
9	C6	87	LYS
9	C6	90	HIS
9	C6	94	ASP
9	C6	102	THR
9	C6	104	VAL
9	C6	105	VAL
9	C6	110	VAL
9	C6	120	CYS
9	C6	123	ARG
9	C6	127	VAL
9	C6	131	THR
9	C6	137	ARG
9	C6	138	ARG
9	C6	139	LYS
9	C6	140	PHE
9	C6	144	ARG
9	C6	147	LEU
9	C6	153	SER
9	C6	155	LEU
9	C6	176	SER
9	C6	184	THR
9	C6	187	HIS
9	C6	188	ASP
9	C6	190	HIS

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Mol	Chain	Res	Type
9	C6	197	PHE
9	C6	198	ASN
9	C6	199	ARG
9	C6	202	ASN
9	C6	211	THR
9	C6	212	GLU
9	C6	215	LEU
9	C6	221	LEU
10	C7	9	SER
10	C7	11	ASP
10	C7	13	ILE
10	C7	14	ILE
10	C7	16	LYS
10	C7	18	ILE
10	C7	37	ASP
10	C7	61	SER
10	C7	63	ASP
10	C7	72	ASP
10	C7	80	LEU
10	C7	81	PHE
10	C7	82	VAL
10	C7	100	LEU
10	C7	102	THR
10	C7	103	LYS
10	C7	106	ASP
10	C7	114	PHE
10	C7	117	CYS
10	C7	119	LYS
10	C7	139	THR
10	C7	152	SER
10	C7	154	THR
10	C7	176	LEU
10	C7	183	GLU
10	C7	184	ASP
10	C7	197	PHE
10	C7	208	LEU
7	CA	5	HIS
7	CA	6	CYS
7	CA	20	ASP
7	CA	37	ARG
7	CA	45	LYS
7	CA	74	ILE

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Mol	Chain	Res	Type
7	CA	115	LYS
7	CA	129	ASP
7	CA	146	LYS
7	CA	151	LEU
5	CB	8	GLU
5	CB	19	LEU
5	CB	48	GLU
5	CB	71	GLN
5	CB	86	THR
5	CB	106	LEU
5	CB	128	THR
5	CB	138	CYS
8	CC	11	GLN
8	CC	13	LEU
8	CC	19	LEU
8	CC	38	LEU
8	CC	42	VAL
8	CC	56	ASN
8	CC	59	GLU
8	CC	60	HIS
8	CC	65	HIS
8	CC	69	CYS
8	CC	70	ARG
8	CC	73	VAL
8	CC	80	LEU
8	CC	81	LEU
8	CC	82	PHE
8	CC	87	LYS
8	CC	90	ARG
8	CC	91	ASP
8	CC	94	ASP
8	CC	96	ASP
8	CC	102	LEU
8	CC	104	ILE
8	CC	112	THR
8	CC	116	THR
8	CC	118	THR
8	CC	131	THR
8	CC	137	ARG
8	CC	139	SER
8	CC	140	PHE
8	CC	143	ASN

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Mol	Chain	Res	Type
8	CC	147	LEU
8	CC	156	ASP
8	CC	159	ASP
8	CC	161	THR
8	CC	163	SER
8	CC	165	THR
8	CC	173	PHE
8	CC	176	ARG
8	CC	183	LEU
8	CC	186	GLN
8	CC	187	SER
8	CC	190	TYR
8	CC	197	ASN
8	CC	198	LEU
8	CC	209	VAL
8	CC	210	VAL
8	CC	216	VAL
8	CC	224	ARG
9	CD	10	LEU
9	CD	32	ARG
9	CD	62	CYS
9	CD	64	LYS
9	CD	73	GLU
9	CD	81	LEU
9	CD	87	LYS
9	CD	90	HIS
9	CD	94	ASP
9	CD	102	THR
9	CD	104	VAL
9	CD	105	VAL
9	CD	110	VAL
9	CD	120	CYS
9	CD	123	ARG
9	CD	127	VAL
9	CD	131	THR
9	CD	137	ARG
9	CD	138	ARG
9	CD	139	LYS
9	CD	140	PHE
9	CD	144	ARG
9	CD	147	LEU
9	CD	153	SER

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Mol	Chain	Res	Type
9	CD	155	LEU
9	CD	176	SER
9	CD	184	THR
9	CD	187	HIS
9	CD	188	ASP
9	CD	190	HIS
9	CD	197	PHE
9	CD	198	ASN
9	CD	199	ARG
9	CD	202	ASN
9	CD	211	THR
9	CD	212	GLU
9	CD	215	LEU
9	CD	221	LEU
10	CE	9	SER
10	CE	11	ASP
10	CE	13	ILE
10	CE	14	ILE
10	CE	16	LYS
10	CE	18	ILE
10	CE	37	ASP
10	CE	61	SER
10	CE	63	ASP
10	CE	72	ASP
10	CE	80	LEU
10	CE	81	PHE
10	CE	82	VAL
10	CE	100	LEU
10	CE	102	THR
10	CE	103	LYS
10	CE	106	ASP
10	CE	114	PHE
10	CE	117	CYS
10	CE	119	LYS
10	CE	139	THR
10	CE	152	SER
10	CE	154	THR
10	CE	176	LEU
10	CE	183	GLU
10	CE	184	ASP
10	CE	197	PHE
10	CE	208	LEU

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Mol	Chain	Res	Type
7	CF	5	HIS
7	CF	6	CYS
7	CF	20	ASP
7	CF	37	ARG
7	CF	45	LYS
7	CF	74	ILE
7	CF	115	LYS
7	CF	129	ASP
7	CF	146	LYS
7	CF	151	LEU
5	CG	8	GLU
5	CG	19	LEU
5	CG	48	GLU
5	CG	71	GLN
5	CG	86	THR
5	CG	106	LEU
5	CG	128	THR
5	CG	138	CYS
8	CH	11	GLN
8	CH	13	LEU
8	CH	19	LEU
8	CH	38	LEU
8	CH	42	VAL
8	CH	56	ASN
8	CH	59	GLU
8	CH	60	HIS
8	CH	65	HIS
8	CH	69	CYS
8	CH	70	ARG
8	CH	73	VAL
8	CH	80	LEU
8	CH	81	LEU
8	CH	82	PHE
8	CH	87	LYS
8	CH	90	ARG
8	CH	91	ASP
8	CH	94	ASP
8	CH	96	ASP
8	CH	102	LEU
8	CH	104	ILE
8	CH	112	THR
8	CH	116	THR

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Mol	Chain	Res	Type
8	CH	118	THR
8	CH	131	THR
8	CH	137	ARG
8	CH	139	SER
8	CH	140	PHE
8	CH	143	ASN
8	CH	147	LEU
8	CH	156	ASP
8	CH	159	ASP
8	CH	161	THR
8	CH	163	SER
8	CH	165	THR
8	CH	173	PHE
8	CH	176	ARG
8	CH	183	LEU
8	CH	186	GLN
8	CH	187	SER
8	CH	190	TYR
8	CH	197	ASN
8	CH	198	LEU
8	CH	209	VAL
8	CH	210	VAL
8	CH	216	VAL
8	CH	224	ARG
9	CI	10	LEU
9	CI	32	ARG
9	CI	62	CYS
9	CI	64	LYS
9	CI	73	GLU
9	CI	81	LEU
9	CI	87	LYS
9	CI	90	HIS
9	CI	94	ASP
9	CI	102	THR
9	CI	104	VAL
9	CI	105	VAL
9	CI	110	VAL
9	CI	120	CYS
9	CI	123	ARG
9	CI	127	VAL
9	CI	131	THR
9	CI	137	ARG

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Mol	Chain	Res	Type
9	CI	138	ARG
9	CI	139	LYS
9	CI	140	PHE
9	CI	144	ARG
9	CI	147	LEU
9	CI	153	SER
9	CI	155	LEU
9	CI	176	SER
9	CI	184	THR
9	CI	187	HIS
9	CI	188	ASP
9	CI	190	HIS
9	CI	197	PHE
9	CI	198	ASN
9	CI	199	ARG
9	CI	202	ASN
9	CI	211	THR
9	CI	212	GLU
9	CI	215	LEU
9	CI	221	LEU
10	CJ	9	SER
10	CJ	11	ASP
10	CJ	13	ILE
10	CJ	14	ILE
10	CJ	16	LYS
10	CJ	18	ILE
10	CJ	37	ASP
10	CJ	61	SER
10	CJ	63	ASP
10	CJ	72	ASP
10	CJ	80	LEU
10	CJ	81	PHE
10	CJ	82	VAL
10	CJ	100	LEU
10	CJ	102	THR
10	CJ	103	LYS
10	CJ	106	ASP
10	CJ	114	PHE
10	CJ	117	CYS
10	CJ	119	LYS
10	CJ	139	THR
10	CJ	152	SER

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Mol	Chain	Res	Type
10	CJ	154	THR
10	CJ	176	LEU
10	CJ	183	GLU
10	CJ	184	ASP
10	CJ	197	PHE
10	CJ	208	LEU
7	CK	5	HIS
7	CK	6	CYS
7	CK	20	ASP
7	CK	37	ARG
7	CK	45	LYS
7	CK	74	ILE
7	CK	115	LYS
7	CK	129	ASP
7	CK	146	LYS
7	CK	151	LEU
5	CL	8	GLU
5	CL	19	LEU
5	CL	48	GLU
5	CL	71	GLN
5	CL	86	THR
5	CL	106	LEU
5	CL	128	THR
5	CL	138	CYS
8	CM	11	GLN
8	CM	13	LEU
8	CM	19	LEU
8	CM	38	LEU
8	CM	42	VAL
8	CM	56	ASN
8	CM	59	GLU
8	CM	60	HIS
8	CM	65	HIS
8	CM	69	CYS
8	CM	70	ARG
8	CM	73	VAL
8	CM	80	LEU
8	CM	81	LEU
8	CM	82	PHE
8	CM	87	LYS
8	CM	90	ARG
8	CM	91	ASP

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Mol	Chain	Res	Type
8	CM	94	ASP
8	CM	96	ASP
8	CM	102	LEU
8	CM	104	ILE
8	CM	112	THR
8	CM	116	THR
8	CM	118	THR
8	CM	131	THR
8	CM	137	ARG
8	CM	139	SER
8	CM	140	PHE
8	CM	143	ASN
8	CM	147	LEU
8	CM	156	ASP
8	CM	159	ASP
8	CM	161	THR
8	CM	163	SER
8	CM	165	THR
8	CM	173	PHE
8	CM	176	ARG
8	CM	183	LEU
8	CM	186	GLN
8	CM	187	SER
8	CM	190	TYR
8	CM	197	ASN
8	CM	198	LEU
8	CM	209	VAL
8	CM	210	VAL
8	CM	216	VAL
8	CM	224	ARG
9	CN	10	LEU
9	CN	32	ARG
9	CN	62	CYS
9	CN	64	LYS
9	CN	73	GLU
9	CN	81	LEU
9	CN	87	LYS
9	CN	90	HIS
9	CN	94	ASP
9	CN	102	THR
9	CN	104	VAL
9	CN	105	VAL

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Mol	Chain	Res	Type
9	CN	110	VAL
9	CN	120	CYS
9	CN	123	ARG
9	CN	127	VAL
9	CN	131	THR
9	CN	137	ARG
9	CN	138	ARG
9	CN	139	LYS
9	CN	140	PHE
9	CN	144	ARG
9	CN	147	LEU
9	CN	153	SER
9	CN	155	LEU
9	CN	176	SER
9	CN	184	THR
9	CN	187	HIS
9	CN	188	ASP
9	CN	190	HIS
9	CN	197	PHE
9	CN	198	ASN
9	CN	199	ARG
9	CN	202	ASN
9	CN	211	THR
9	CN	212	GLU
9	CN	215	LEU
9	CN	221	LEU
10	CO	9	SER
10	CO	11	ASP
10	CO	13	ILE
10	CO	14	ILE
10	CO	16	LYS
10	CO	18	ILE
10	CO	37	ASP
10	CO	61	SER
10	CO	63	ASP
10	CO	72	ASP
10	CO	80	LEU
10	CO	81	PHE
10	CO	82	VAL
10	CO	100	LEU
10	CO	102	THR
10	CO	103	LYS

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Mol	Chain	Res	Type
10	CO	106	ASP
10	CO	114	PHE
10	CO	117	CYS
10	CO	119	LYS
10	CO	139	THR
10	CO	152	SER
10	CO	154	THR
10	CO	176	LEU
10	CO	183	GLU
10	CO	184	ASP
10	CO	197	PHE
10	CO	208	LEU
7	CP	5	HIS
7	CP	6	CYS
7	CP	20	ASP
7	CP	37	ARG
7	CP	45	LYS
7	CP	74	ILE
7	CP	115	LYS
7	CP	129	ASP
7	CP	146	LYS
7	CP	151	LEU
5	CQ	8	GLU
5	CQ	19	LEU
5	CQ	48	GLU
5	CQ	71	GLN
5	CQ	86	THR
5	CQ	106	LEU
5	CQ	128	THR
5	CQ	138	CYS
8	CR	11	GLN
8	CR	13	LEU
8	CR	19	LEU
8	CR	38	LEU
8	CR	42	VAL
8	CR	56	ASN
8	CR	59	GLU
8	CR	60	HIS
8	CR	65	HIS
8	CR	69	CYS
8	CR	70	ARG
8	CR	73	VAL

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Mol	Chain	Res	Type
8	CR	80	LEU
8	CR	81	LEU
8	CR	82	PHE
8	CR	87	LYS
8	CR	90	ARG
8	CR	91	ASP
8	CR	94	ASP
8	CR	96	ASP
8	CR	102	LEU
8	CR	104	ILE
8	CR	112	THR
8	CR	116	THR
8	CR	118	THR
8	CR	131	THR
8	CR	137	ARG
8	CR	139	SER
8	CR	140	PHE
8	CR	143	ASN
8	CR	147	LEU
8	CR	156	ASP
8	CR	159	ASP
8	CR	161	THR
8	CR	163	SER
8	CR	165	THR
8	CR	173	PHE
8	CR	176	ARG
8	CR	183	LEU
8	CR	186	GLN
8	CR	187	SER
8	CR	190	TYR
8	CR	197	ASN
8	CR	198	LEU
8	CR	209	VAL
8	CR	210	VAL
8	CR	216	VAL
8	CR	224	ARG
9	CS	10	LEU
9	CS	32	ARG
9	CS	62	CYS
9	CS	64	LYS
9	CS	73	GLU
9	CS	81	LEU

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Mol	Chain	Res	Type
9	CS	87	LYS
9	CS	90	HIS
9	CS	94	ASP
9	CS	102	THR
9	CS	104	VAL
9	CS	105	VAL
9	CS	110	VAL
9	CS	120	CYS
9	CS	123	ARG
9	CS	127	VAL
9	CS	131	THR
9	CS	137	ARG
9	CS	138	ARG
9	CS	139	LYS
9	CS	140	PHE
9	CS	144	ARG
9	CS	147	LEU
9	CS	153	SER
9	CS	155	LEU
9	CS	176	SER
9	CS	184	THR
9	CS	187	HIS
9	CS	188	ASP
9	CS	190	HIS
9	CS	197	PHE
9	CS	198	ASN
9	CS	199	ARG
9	CS	202	ASN
9	CS	211	THR
9	CS	212	GLU
9	CS	215	LEU
9	CS	221	LEU
10	CT	9	SER
10	CT	11	ASP
10	CT	13	ILE
10	CT	14	ILE
10	CT	16	LYS
10	CT	18	ILE
10	CT	37	ASP
10	CT	61	SER
10	CT	63	ASP
10	CT	72	ASP

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Mol	Chain	Res	Type
10	CT	80	LEU
10	CT	81	PHE
10	CT	82	VAL
10	CT	100	LEU
10	CT	102	THR
10	CT	103	LYS
10	CT	106	ASP
10	CT	114	PHE
10	CT	117	CYS
10	CT	119	LYS
10	CT	139	THR
10	CT	152	SER
10	CT	154	THR
10	CT	176	LEU
10	CT	183	GLU
10	CT	184	ASP
10	CT	197	PHE
10	CT	208	LEU
7	CU	5	HIS
7	CU	6	CYS
7	CU	20	ASP
7	CU	37	ARG
7	CU	45	LYS
7	CU	74	ILE
7	CU	115	LYS
7	CU	129	ASP
7	CU	146	LYS
7	CU	151	LEU
5	CV	8	GLU
5	CV	19	LEU
5	CV	48	GLU
5	CV	71	GLN
5	CV	86	THR
5	CV	106	LEU
5	CV	128	THR
5	CV	138	CYS
8	CW	11	GLN
8	CW	13	LEU
8	CW	19	LEU
8	CW	38	LEU
8	CW	42	VAL
8	CW	56	ASN

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Mol	Chain	Res	Type
8	CW	59	GLU
8	CW	60	HIS
8	CW	65	HIS
8	CW	69	CYS
8	CW	70	ARG
8	CW	73	VAL
8	CW	80	LEU
8	CW	81	LEU
8	CW	82	PHE
8	CW	87	LYS
8	CW	90	ARG
8	CW	91	ASP
8	CW	94	ASP
8	CW	96	ASP
8	CW	102	LEU
8	CW	104	ILE
8	CW	112	THR
8	CW	116	THR
8	CW	118	THR
8	CW	131	THR
8	CW	137	ARG
8	CW	139	SER
8	CW	140	PHE
8	CW	143	ASN
8	CW	147	LEU
8	CW	156	ASP
8	CW	159	ASP
8	CW	161	THR
8	CW	163	SER
8	CW	165	THR
8	CW	173	PHE
8	CW	176	ARG
8	CW	183	LEU
8	CW	186	GLN
8	CW	187	SER
8	CW	190	TYR
8	CW	197	ASN
8	CW	198	LEU
8	CW	209	VAL
8	CW	210	VAL
8	CW	216	VAL
8	CW	224	ARG

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Mol	Chain	Res	Type
9	CX	10	LEU
9	CX	32	ARG
9	CX	62	CYS
9	CX	64	LYS
9	CX	73	GLU
9	CX	81	LEU
9	CX	87	LYS
9	CX	90	HIS
9	CX	94	ASP
9	CX	102	THR
9	CX	104	VAL
9	CX	105	VAL
9	CX	110	VAL
9	CX	120	CYS
9	CX	123	ARG
9	CX	127	VAL
9	CX	131	THR
9	CX	137	ARG
9	CX	138	ARG
9	CX	139	LYS
9	CX	140	PHE
9	CX	144	ARG
9	CX	147	LEU
9	CX	153	SER
9	CX	155	LEU
9	CX	176	SER
9	CX	184	THR
9	CX	187	HIS
9	CX	188	ASP
9	CX	190	HIS
9	CX	197	PHE
9	CX	198	ASN
9	CX	199	ARG
9	CX	202	ASN
9	CX	211	THR
9	CX	212	GLU
9	CX	215	LEU
9	CX	221	LEU
10	CY	9	SER
10	CY	11	ASP
10	CY	13	ILE
10	CY	14	ILE

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Mol	Chain	Res	Type
10	CY	16	LYS
10	CY	18	ILE
10	CY	37	ASP
10	CY	61	SER
10	CY	63	ASP
10	CY	72	ASP
10	CY	80	LEU
10	CY	81	PHE
10	CY	82	VAL
10	CY	100	LEU
10	CY	102	THR
10	CY	103	LYS
10	CY	106	ASP
10	CY	114	PHE
10	CY	117	CYS
10	CY	119	LYS
10	CY	139	THR
10	CY	152	SER
10	CY	154	THR
10	CY	176	LEU
10	CY	183	GLU
10	CY	184	ASP
10	CY	197	PHE
10	CY	208	LEU
7	CZ	5	HIS
7	CZ	6	CYS
7	CZ	20	ASP
7	CZ	37	ARG
7	CZ	45	LYS
7	CZ	74	ILE
7	CZ	115	LYS
7	CZ	129	ASP
7	CZ	146	LYS
7	CZ	151	LEU
5	Ca	8	GLU
5	Ca	19	LEU
5	Ca	48	GLU
5	Ca	71	GLN
5	Ca	86	THR
5	Ca	106	LEU
5	Ca	128	THR
5	Ca	138	CYS

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Mol	Chain	Res	Type
8	Cb	11	GLN
8	Cb	13	LEU
8	Cb	19	LEU
8	Cb	38	LEU
8	Cb	42	VAL
8	Cb	56	ASN
8	Cb	59	GLU
8	Cb	60	HIS
8	Cb	65	HIS
8	Cb	69	CYS
8	Cb	70	ARG
8	Cb	73	VAL
8	Cb	80	LEU
8	Cb	81	LEU
8	Cb	82	PHE
8	Cb	87	LYS
8	Cb	90	ARG
8	Cb	91	ASP
8	Cb	94	ASP
8	Cb	96	ASP
8	Cb	102	LEU
8	Cb	104	ILE
8	Cb	112	THR
8	Cb	116	THR
8	Cb	118	THR
8	Cb	131	THR
8	Cb	137	ARG
8	Cb	139	SER
8	Cb	140	PHE
8	Cb	143	ASN
8	Cb	147	LEU
8	Cb	156	ASP
8	Cb	159	ASP
8	Cb	161	THR
8	Cb	163	SER
8	Cb	165	THR
8	Cb	173	PHE
8	Cb	176	ARG
8	Cb	183	LEU
8	Cb	186	GLN
8	Cb	187	SER
8	Cb	190	TYR

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Mol	Chain	Res	Type
8	Cb	197	ASN
8	Cb	198	LEU
8	Cb	209	VAL
8	Cb	210	VAL
8	Cb	216	VAL
8	Cb	224	ARG
9	Cc	10	LEU
9	Cc	32	ARG
9	Cc	62	CYS
9	Cc	64	LYS
9	Cc	73	GLU
9	Cc	81	LEU
9	Cc	87	LYS
9	Cc	90	HIS
9	Cc	94	ASP
9	Cc	102	THR
9	Cc	104	VAL
9	Cc	105	VAL
9	Cc	110	VAL
9	Cc	120	CYS
9	Cc	123	ARG
9	Cc	127	VAL
9	Cc	131	THR
9	Cc	137	ARG
9	Cc	138	ARG
9	Cc	139	LYS
9	Cc	140	PHE
9	Cc	144	ARG
9	Cc	147	LEU
9	Cc	153	SER
9	Cc	155	LEU
9	Cc	176	SER
9	Cc	184	THR
9	Cc	187	HIS
9	Cc	188	ASP
9	Cc	190	HIS
9	Cc	197	PHE
9	Cc	198	ASN
9	Cc	199	ARG
9	Cc	202	ASN
9	Cc	211	THR
9	Cc	212	GLU

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Mol	Chain	Res	Type
9	Cc	215	LEU
9	Cc	221	LEU
10	Cd	9	SER
10	Cd	11	ASP
10	Cd	13	ILE
10	Cd	14	ILE
10	Cd	16	LYS
10	Cd	18	ILE
10	Cd	37	ASP
10	Cd	61	SER
10	Cd	63	ASP
10	Cd	72	ASP
10	Cd	80	LEU
10	Cd	81	PHE
10	Cd	82	VAL
10	Cd	100	LEU
10	Cd	102	THR
10	Cd	103	LYS
10	Cd	106	ASP
10	Cd	114	PHE
10	Cd	117	CYS
10	Cd	119	LYS
10	Cd	139	THR
10	Cd	152	SER
10	Cd	154	THR
10	Cd	176	LEU
10	Cd	183	GLU
10	Cd	184	ASP
10	Cd	197	PHE
10	Cd	208	LEU
7	Ce	5	HIS
7	Ce	6	CYS
7	Ce	20	ASP
7	Ce	37	ARG
7	Ce	45	LYS
7	Ce	74	ILE
7	Ce	115	LYS
7	Ce	129	ASP
7	Ce	146	LYS
7	Ce	151	LEU
5	Cf	8	GLU
5	Cf	19	LEU

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Mol	Chain	Res	Type
5	Cf	48	GLU
5	Cf	71	GLN
5	Cf	86	THR
5	Cf	106	LEU
5	Cf	128	THR
5	Cf	138	CYS
8	Cg	11	GLN
8	Cg	13	LEU
8	Cg	19	LEU
8	Cg	38	LEU
8	Cg	42	VAL
8	Cg	56	ASN
8	Cg	59	GLU
8	Cg	60	HIS
8	Cg	65	HIS
8	Cg	69	CYS
8	Cg	70	ARG
8	Cg	73	VAL
8	Cg	80	LEU
8	Cg	81	LEU
8	Cg	82	PHE
8	Cg	87	LYS
8	Cg	90	ARG
8	Cg	91	ASP
8	Cg	94	ASP
8	Cg	96	ASP
8	Cg	102	LEU
8	Cg	104	ILE
8	Cg	112	THR
8	Cg	116	THR
8	Cg	118	THR
8	Cg	131	THR
8	Cg	137	ARG
8	Cg	139	SER
8	Cg	140	PHE
8	Cg	143	ASN
8	Cg	147	LEU
8	Cg	156	ASP
8	Cg	159	ASP
8	Cg	161	THR
8	Cg	163	SER
8	Cg	165	THR

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Mol	Chain	Res	Type
8	Cg	173	PHE
8	Cg	176	ARG
8	Cg	183	LEU
8	Cg	186	GLN
8	Cg	187	SER
8	Cg	190	TYR
8	Cg	197	ASN
8	Cg	198	LEU
8	Cg	209	VAL
8	Cg	210	VAL
8	Cg	216	VAL
8	Cg	224	ARG
9	Ch	10	LEU
9	Ch	32	ARG
9	Ch	62	CYS
9	Ch	64	LYS
9	Ch	73	GLU
9	Ch	81	LEU
9	Ch	87	LYS
9	Ch	90	HIS
9	Ch	94	ASP
9	Ch	102	THR
9	Ch	104	VAL
9	Ch	105	VAL
9	Ch	110	VAL
9	Ch	120	CYS
9	Ch	123	ARG
9	Ch	127	VAL
9	Ch	131	THR
9	Ch	137	ARG
9	Ch	138	ARG
9	Ch	139	LYS
9	Ch	140	PHE
9	Ch	144	ARG
9	Ch	147	LEU
9	Ch	153	SER
9	Ch	155	LEU
9	Ch	176	SER
9	Ch	184	THR
9	Ch	187	HIS
9	Ch	188	ASP
9	Ch	190	HIS

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Mol	Chain	Res	Type
9	Ch	197	PHE
9	Ch	198	ASN
9	Ch	199	ARG
9	Ch	202	ASN
9	Ch	211	THR
9	Ch	212	GLU
9	Ch	215	LEU
9	Ch	221	LEU
10	Ci	9	SER
10	Ci	11	ASP
10	Ci	13	ILE
10	Ci	14	ILE
10	Ci	16	LYS
10	Ci	18	ILE
10	Ci	37	ASP
10	Ci	61	SER
10	Ci	63	ASP
10	Ci	72	ASP
10	Ci	80	LEU
10	Ci	81	PHE
10	Ci	82	VAL
10	Ci	100	LEU
10	Ci	102	THR
10	Ci	103	LYS
10	Ci	106	ASP
10	Ci	114	PHE
10	Ci	117	CYS
10	Ci	119	LYS
10	Ci	139	THR
10	Ci	152	SER
10	Ci	154	THR
10	Ci	176	LEU
10	Ci	183	GLU
10	Ci	184	ASP
10	Ci	197	PHE
10	Ci	208	LEU
7	Cj	5	HIS
7	Cj	6	CYS
7	Cj	20	ASP
7	Cj	37	ARG
7	Cj	45	LYS
7	Cj	74	ILE

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Mol	Chain	Res	Type
7	Cj	115	LYS
7	Cj	129	ASP
7	Cj	146	LYS
7	Cj	151	LEU
5	Ck	8	GLU
5	Ck	19	LEU
5	Ck	48	GLU
5	Ck	71	GLN
5	Ck	86	THR
5	Ck	106	LEU
5	Ck	128	THR
5	Ck	138	CYS
8	Cl	11	GLN
8	Cl	13	LEU
8	Cl	19	LEU
8	Cl	38	LEU
8	Cl	42	VAL
8	Cl	56	ASN
8	Cl	59	GLU
8	Cl	60	HIS
8	Cl	65	HIS
8	Cl	69	CYS
8	Cl	70	ARG
8	Cl	73	VAL
8	Cl	80	LEU
8	Cl	81	LEU
8	Cl	82	PHE
8	Cl	87	LYS
8	Cl	90	ARG
8	Cl	91	ASP
8	Cl	94	ASP
8	Cl	96	ASP
8	Cl	102	LEU
8	Cl	104	ILE
8	Cl	112	THR
8	Cl	116	THR
8	Cl	118	THR
8	Cl	131	THR
8	Cl	137	ARG
8	Cl	139	SER
8	Cl	140	PHE
8	Cl	143	ASN

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Mol	Chain	Res	Type
8	Cl	147	LEU
8	Cl	156	ASP
8	Cl	159	ASP
8	Cl	161	THR
8	Cl	163	SER
8	Cl	165	THR
8	Cl	173	PHE
8	Cl	176	ARG
8	Cl	183	LEU
8	Cl	186	GLN
8	Cl	187	SER
8	Cl	190	TYR
8	Cl	197	ASN
8	Cl	198	LEU
8	Cl	209	VAL
8	Cl	210	VAL
8	Cl	216	VAL
8	Cl	224	ARG
9	Cm	10	LEU
9	Cm	32	ARG
9	Cm	62	CYS
9	Cm	64	LYS
9	Cm	73	GLU
9	Cm	81	LEU
9	Cm	87	LYS
9	Cm	90	HIS
9	Cm	94	ASP
9	Cm	102	THR
9	Cm	104	VAL
9	Cm	105	VAL
9	Cm	110	VAL
9	Cm	120	CYS
9	Cm	123	ARG
9	Cm	127	VAL
9	Cm	131	THR
9	Cm	137	ARG
9	Cm	138	ARG
9	Cm	139	LYS
9	Cm	140	PHE
9	Cm	144	ARG
9	Cm	147	LEU
9	Cm	153	SER

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Mol	Chain	Res	Type
9	Cm	155	LEU
9	Cm	176	SER
9	Cm	184	THR
9	Cm	187	HIS
9	Cm	188	ASP
9	Cm	190	HIS
9	Cm	197	PHE
9	Cm	198	ASN
9	Cm	199	ARG
9	Cm	202	ASN
9	Cm	211	THR
9	Cm	212	GLU
9	Cm	215	LEU
9	Cm	221	LEU
10	Cn	9	SER
10	Cn	11	ASP
10	Cn	13	ILE
10	Cn	14	ILE
10	Cn	16	LYS
10	Cn	18	ILE
10	Cn	37	ASP
10	Cn	61	SER
10	Cn	63	ASP
10	Cn	72	ASP
10	Cn	80	LEU
10	Cn	81	PHE
10	Cn	82	VAL
10	Cn	100	LEU
10	Cn	102	THR
10	Cn	103	LYS
10	Cn	106	ASP
10	Cn	114	PHE
10	Cn	117	CYS
10	Cn	119	LYS
10	Cn	139	THR
10	Cn	152	SER
10	Cn	154	THR
10	Cn	176	LEU
10	Cn	183	GLU
10	Cn	184	ASP
10	Cn	197	PHE
10	Cn	208	LEU

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Mol	Chain	Res	Type
7	Co	5	HIS
7	Co	6	CYS
7	Co	20	ASP
7	Co	37	ARG
7	Co	45	LYS
7	Co	74	ILE
7	Co	115	LYS
7	Co	129	ASP
7	Co	146	LYS
7	Co	151	LEU
5	Cp	8	GLU
5	Cp	19	LEU
5	Cp	48	GLU
5	Cp	71	GLN
5	Cp	86	THR
5	Cp	106	LEU
5	Cp	128	THR
5	Cp	138	CYS
8	Cq	11	GLN
8	Cq	13	LEU
8	Cq	19	LEU
8	Cq	38	LEU
8	Cq	42	VAL
8	Cq	56	ASN
8	Cq	59	GLU
8	Cq	60	HIS
8	Cq	65	HIS
8	Cq	69	CYS
8	Cq	70	ARG
8	Cq	73	VAL
8	Cq	80	LEU
8	Cq	81	LEU
8	Cq	82	PHE
8	Cq	87	LYS
8	Cq	90	ARG
8	Cq	91	ASP
8	Cq	94	ASP
8	Cq	96	ASP
8	Cq	102	LEU
8	Cq	104	ILE
8	Cq	112	THR
8	Cq	116	THR

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Mol	Chain	Res	Type
8	Cq	118	THR
8	Cq	131	THR
8	Cq	137	ARG
8	Cq	139	SER
8	Cq	140	PHE
8	Cq	143	ASN
8	Cq	147	LEU
8	Cq	156	ASP
8	Cq	159	ASP
8	Cq	161	THR
8	Cq	163	SER
8	Cq	165	THR
8	Cq	173	PHE
8	Cq	176	ARG
8	Cq	183	LEU
8	Cq	186	GLN
8	Cq	187	SER
8	Cq	190	TYR
8	Cq	197	ASN
8	Cq	198	LEU
8	Cq	209	VAL
8	Cq	210	VAL
8	Cq	216	VAL
8	Cq	224	ARG
9	Cr	10	LEU
9	Cr	32	ARG
9	Cr	62	CYS
9	Cr	64	LYS
9	Cr	73	GLU
9	Cr	81	LEU
9	Cr	87	LYS
9	Cr	90	HIS
9	Cr	94	ASP
9	Cr	102	THR
9	Cr	104	VAL
9	Cr	105	VAL
9	Cr	110	VAL
9	Cr	120	CYS
9	Cr	123	ARG
9	Cr	127	VAL
9	Cr	131	THR
9	Cr	137	ARG

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Mol	Chain	Res	Type
9	Cr	138	ARG
9	Cr	139	LYS
9	Cr	140	PHE
9	Cr	144	ARG
9	Cr	147	LEU
9	Cr	153	SER
9	Cr	155	LEU
9	Cr	176	SER
9	Cr	184	THR
9	Cr	187	HIS
9	Cr	188	ASP
9	Cr	190	HIS
9	Cr	197	PHE
9	Cr	198	ASN
9	Cr	199	ARG
9	Cr	202	ASN
9	Cr	211	THR
9	Cr	212	GLU
9	Cr	215	LEU
9	Cr	221	LEU
10	Cs	9	SER
10	Cs	11	ASP
10	Cs	13	ILE
10	Cs	14	ILE
10	Cs	16	LYS
10	Cs	18	ILE
10	Cs	37	ASP
10	Cs	61	SER
10	Cs	63	ASP
10	Cs	72	ASP
10	Cs	80	LEU
10	Cs	81	PHE
10	Cs	82	VAL
10	Cs	100	LEU
10	Cs	102	THR
10	Cs	103	LYS
10	Cs	106	ASP
10	Cs	114	PHE
10	Cs	117	CYS
10	Cs	119	LYS
10	Cs	139	THR
10	Cs	152	SER

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Mol	Chain	Res	Type
10	Cs	154	THR
10	Cs	176	LEU
10	Cs	183	GLU
10	Cs	184	ASP
10	Cs	197	PHE
10	Cs	208	LEU
7	Ct	5	HIS
7	Ct	6	CYS
7	Ct	20	ASP
7	Ct	37	ARG
7	Ct	45	LYS
7	Ct	74	ILE
7	Ct	115	LYS
7	Ct	129	ASP
7	Ct	146	LYS
7	Ct	151	LEU
5	Cu	8	GLU
5	Cu	19	LEU
5	Cu	48	GLU
5	Cu	71	GLN
5	Cu	86	THR
5	Cu	106	LEU
5	Cu	128	THR
5	Cu	138	CYS
8	Cv	11	GLN
8	Cv	13	LEU
8	Cv	19	LEU
8	Cv	38	LEU
8	Cv	42	VAL
8	Cv	56	ASN
8	Cv	59	GLU
8	Cv	60	HIS
8	Cv	65	HIS
8	Cv	69	CYS
8	Cv	70	ARG
8	Cv	73	VAL
8	Cv	80	LEU
8	Cv	81	LEU
8	Cv	82	PHE
8	Cv	87	LYS
8	Cv	90	ARG
8	Cv	91	ASP

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Mol	Chain	Res	Type
8	Cv	94	ASP
8	Cv	96	ASP
8	Cv	102	LEU
8	Cv	104	ILE
8	Cv	112	THR
8	Cv	116	THR
8	Cv	118	THR
8	Cv	131	THR
8	Cv	137	ARG
8	Cv	139	SER
8	Cv	140	PHE
8	Cv	143	ASN
8	Cv	147	LEU
8	Cv	156	ASP
8	Cv	159	ASP
8	Cv	161	THR
8	Cv	163	SER
8	Cv	165	THR
8	Cv	173	PHE
8	Cv	176	ARG
8	Cv	183	LEU
8	Cv	186	GLN
8	Cv	187	SER
8	Cv	190	TYR
8	Cv	197	ASN
8	Cv	198	LEU
8	Cv	209	VAL
8	Cv	210	VAL
8	Cv	216	VAL
8	Cv	224	ARG
9	Cw	10	LEU
9	Cw	32	ARG
9	Cw	62	CYS
9	Cw	64	LYS
9	Cw	73	GLU
9	Cw	81	LEU
9	Cw	87	LYS
9	Cw	90	HIS
9	Cw	94	ASP
9	Cw	102	THR
9	Cw	104	VAL
9	Cw	105	VAL

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Mol	Chain	Res	Type
9	Cw	110	VAL
9	Cw	120	CYS
9	Cw	123	ARG
9	Cw	127	VAL
9	Cw	131	THR
9	Cw	137	ARG
9	Cw	138	ARG
9	Cw	139	LYS
9	Cw	140	PHE
9	Cw	144	ARG
9	Cw	147	LEU
9	Cw	153	SER
9	Cw	155	LEU
9	Cw	176	SER
9	Cw	184	THR
9	Cw	187	HIS
9	Cw	188	ASP
9	Cw	190	HIS
9	Cw	197	PHE
9	Cw	198	ASN
9	Cw	199	ARG
9	Cw	202	ASN
9	Cw	211	THR
9	Cw	212	GLU
9	Cw	215	LEU
9	Cw	221	LEU
10	Cx	9	SER
10	Cx	11	ASP
10	Cx	13	ILE
10	Cx	14	ILE
10	Cx	16	LYS
10	Cx	18	ILE
10	Cx	37	ASP
10	Cx	61	SER
10	Cx	63	ASP
10	Cx	72	ASP
10	Cx	80	LEU
10	Cx	81	PHE
10	Cx	82	VAL
10	Cx	100	LEU
10	Cx	102	THR
10	Cx	103	LYS

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Mol	Chain	Res	Type
10	Cx	106	ASP
10	Cx	114	PHE
10	Cx	117	CYS
10	Cx	119	LYS
10	Cx	139	THR
10	Cx	152	SER
10	Cx	154	THR
10	Cx	176	LEU
10	Cx	183	GLU
10	Cx	184	ASP
10	Cx	197	PHE
10	Cx	208	LEU
7	Cy	5	HIS
7	Cy	6	CYS
7	Cy	20	ASP
7	Cy	37	ARG
7	Cy	45	LYS
7	Cy	74	ILE
7	Cy	115	LYS
7	Cy	129	ASP
7	Cy	146	LYS
7	Cy	151	LEU
5	Cz	8	GLU
5	Cz	19	LEU
5	Cz	48	GLU
5	Cz	71	GLN
5	Cz	86	THR
5	Cz	106	LEU
5	Cz	128	THR
5	Cz	138	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (926) such sidechains are listed below:

Mol	Chain	Res	Type
1	A0	5	HIS
1	A0	12	HIS
1	A0	16	GLN
1	A0	18	GLN
1	A0	51	ASN
1	A0	61	HIS
1	A0	70	HIS
1	A0	76	ASN

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Mol	Chain	Res	Type
1	A0	83	ASN
1	A0	126	GLN
2	A1	20	GLN
2	A1	46	HIS
2	A1	96	HIS
2	A1	117	HIS
2	A1	141	GLN
3	A2	69	HIS
3	A2	131	ASN
3	A2	136	ASN
3	A3	17	HIS
3	A3	69	HIS
3	A3	131	ASN
3	A3	136	ASN
4	A4	40	GLN
4	A4	52	HIS
4	A4	115	HIS
4	A4	120	GLN
4	A4	144	HIS
1	A5	5	HIS
1	A5	12	HIS
1	A5	16	GLN
1	A5	18	GLN
1	A5	51	ASN
1	A5	61	HIS
1	A5	70	HIS
1	A5	76	ASN
1	A5	83	ASN
1	A5	126	GLN
2	A6	20	GLN
2	A6	46	HIS
2	A6	96	HIS
2	A6	101	HIS
2	A6	117	HIS
3	A7	45	HIS
3	A7	69	HIS
3	A7	96	HIS
3	A7	131	ASN
3	A7	136	ASN
3	AA	17	HIS
3	AA	69	HIS
3	AA	131	ASN

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Mol	Chain	Res	Type
3	AA	136	ASN
4	AB	40	GLN
4	AB	52	HIS
4	AB	115	HIS
4	AB	120	GLN
4	AB	144	HIS
1	AC	5	HIS
1	AC	12	HIS
1	AC	16	GLN
1	AC	18	GLN
1	AC	51	ASN
1	AC	61	HIS
1	AC	70	HIS
1	AC	76	ASN
1	AC	83	ASN
1	AC	126	GLN
2	AD	20	GLN
2	AD	46	HIS
2	AD	96	HIS
2	AD	101	HIS
2	AD	117	HIS
3	AE	45	HIS
3	AE	69	HIS
3	AE	96	HIS
3	AE	125	GLN
3	AE	131	ASN
3	AE	136	ASN
3	AF	17	HIS
3	AF	69	HIS
3	AF	131	ASN
3	AF	136	ASN
4	AG	52	HIS
4	AG	115	HIS
4	AG	144	HIS
1	AH	12	HIS
1	AH	16	GLN
1	AH	18	GLN
1	AH	51	ASN
1	AH	61	HIS
1	AH	70	HIS
1	AH	76	ASN
1	AH	83	ASN

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Mol	Chain	Res	Type
1	AH	126	GLN
2	AI	20	GLN
2	AI	46	HIS
2	AI	96	HIS
2	AI	117	HIS
3	AJ	69	HIS
3	AJ	96	HIS
3	AJ	125	GLN
3	AJ	131	ASN
3	AJ	136	ASN
3	AK	17	HIS
3	AK	69	HIS
3	AK	131	ASN
3	AK	136	ASN
4	AL	40	GLN
4	AL	52	HIS
4	AL	115	HIS
4	AL	120	GLN
4	AL	144	HIS
1	AM	12	HIS
1	AM	16	GLN
1	AM	18	GLN
1	AM	51	ASN
1	AM	61	HIS
1	AM	70	HIS
1	AM	76	ASN
1	AM	83	ASN
1	AM	126	GLN
2	AN	20	GLN
2	AN	46	HIS
2	AN	96	HIS
2	AN	117	HIS
3	AO	69	HIS
3	AO	131	ASN
3	AO	136	ASN
3	AP	17	HIS
3	AP	69	HIS
3	AP	131	ASN
3	AP	136	ASN
4	AQ	52	HIS
4	AQ	115	HIS
4	AQ	120	GLN

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Mol	Chain	Res	Type
4	AQ	144	HIS
1	AR	12	HIS
1	AR	16	GLN
1	AR	18	GLN
1	AR	51	ASN
1	AR	70	HIS
1	AR	76	ASN
1	AR	83	ASN
1	AR	126	GLN
2	AS	20	GLN
2	AS	46	HIS
2	AS	96	HIS
2	AS	117	HIS
2	AS	141	GLN
3	AT	69	HIS
3	AT	96	HIS
3	AT	131	ASN
3	AT	136	ASN
3	AU	17	HIS
3	AU	69	HIS
3	AU	131	ASN
3	AU	136	ASN
4	AV	52	HIS
4	AV	115	HIS
4	AV	120	GLN
4	AV	144	HIS
1	AW	5	HIS
1	AW	12	HIS
1	AW	16	GLN
1	AW	18	GLN
1	AW	51	ASN
1	AW	61	HIS
1	AW	70	HIS
1	AW	76	ASN
1	AW	126	GLN
2	AX	20	GLN
2	AX	46	HIS
2	AX	96	HIS
2	AX	117	HIS
2	AX	141	GLN
3	AY	69	HIS
3	AY	131	ASN

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Mol	Chain	Res	Type
3	AY	136	ASN
3	AZ	17	HIS
3	AZ	69	HIS
3	AZ	131	ASN
3	AZ	136	ASN
4	Aa	40	GLN
4	Aa	52	HIS
4	Aa	115	HIS
4	Aa	120	GLN
4	Aa	144	HIS
1	Ab	12	HIS
1	Ab	16	GLN
1	Ab	18	GLN
1	Ab	51	ASN
1	Ab	61	HIS
1	Ab	70	HIS
1	Ab	76	ASN
1	Ab	83	ASN
1	Ab	126	GLN
2	Ac	20	GLN
2	Ac	46	HIS
2	Ac	96	HIS
2	Ac	117	HIS
3	Ad	45	HIS
3	Ad	69	HIS
3	Ad	96	HIS
3	Ad	131	ASN
3	Ad	136	ASN
3	Ae	17	HIS
3	Ae	69	HIS
3	Ae	131	ASN
3	Ae	136	ASN
4	Af	40	GLN
4	Af	52	HIS
4	Af	115	HIS
4	Af	144	HIS
1	Ag	5	HIS
1	Ag	12	HIS
1	Ag	16	GLN
1	Ag	18	GLN
1	Ag	51	ASN
1	Ag	61	HIS

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Mol	Chain	Res	Type
1	Ag	70	HIS
1	Ag	76	ASN
1	Ag	83	ASN
1	Ag	126	GLN
2	Ah	20	GLN
2	Ah	46	HIS
2	Ah	96	HIS
2	Ah	101	HIS
2	Ah	117	HIS
3	Ai	69	HIS
3	Ai	131	ASN
3	Ai	136	ASN
3	Aj	17	HIS
3	Aj	69	HIS
3	Aj	131	ASN
3	Aj	136	ASN
4	Ak	52	HIS
4	Ak	115	HIS
4	Ak	144	HIS
1	Al	12	HIS
1	Al	16	GLN
1	Al	18	GLN
1	Al	51	ASN
1	Al	61	HIS
1	Al	70	HIS
1	Al	76	ASN
1	Al	83	ASN
1	Al	126	GLN
2	Am	20	GLN
2	Am	46	HIS
2	Am	96	HIS
2	Am	117	HIS
3	An	69	HIS
3	An	96	HIS
3	An	125	GLN
3	An	131	ASN
3	An	136	ASN
3	Ao	17	HIS
3	Ao	69	HIS
3	Ao	131	ASN
3	Ao	136	ASN
4	Ap	40	GLN

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Mol	Chain	Res	Type
4	Ap	52	HIS
4	Ap	115	HIS
4	Ap	120	GLN
4	Ap	144	HIS
1	Aq	12	HIS
1	Aq	16	GLN
1	Aq	18	GLN
1	Aq	51	ASN
1	Aq	61	HIS
1	Aq	70	HIS
1	Aq	76	ASN
1	Aq	83	ASN
1	Aq	126	GLN
2	Ar	20	GLN
2	Ar	46	HIS
2	Ar	96	HIS
2	Ar	117	HIS
3	As	69	HIS
3	As	131	ASN
3	As	136	ASN
3	At	17	HIS
3	At	69	HIS
3	At	131	ASN
3	At	136	ASN
4	Au	40	GLN
4	Au	52	HIS
4	Au	115	HIS
4	Au	120	GLN
4	Au	144	HIS
1	Av	12	HIS
1	Av	16	GLN
1	Av	18	GLN
1	Av	51	ASN
1	Av	70	HIS
1	Av	76	ASN
1	Av	83	ASN
1	Av	126	GLN
2	Aw	20	GLN
2	Aw	46	HIS
2	Aw	96	HIS
2	Aw	117	HIS
2	Aw	141	GLN

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Mol	Chain	Res	Type
3	Ax	45	HIS
3	Ax	69	HIS
3	Ax	125	GLN
3	Ax	131	ASN
3	Ax	136	ASN
3	Ay	17	HIS
3	Ay	69	HIS
3	Ay	131	ASN
3	Ay	136	ASN
4	Az	52	HIS
4	Az	115	HIS
4	Az	120	GLN
4	Az	144	HIS
5	B0	20	GLN
5	B0	46	HIS
5	B0	101	HIS
5	B0	117	HIS
6	B1	69	HIS
6	B1	96	HIS
6	B1	125	GLN
6	B1	131	ASN
6	B1	136	ASN
4	B2	40	GLN
4	B2	52	HIS
4	B2	115	HIS
4	B2	120	GLN
4	B3	52	HIS
4	B3	81	GLN
4	B3	96	HIS
4	B3	115	HIS
4	B3	120	GLN
7	B4	3	HIS
7	B4	12	HIS
7	B4	16	GLN
7	B4	18	GLN
7	B4	51	ASN
7	B4	61	HIS
7	B4	70	HIS
7	B4	76	ASN
7	B4	126	GLN
5	B5	20	GLN
5	B5	46	HIS

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Mol	Chain	Res	Type
5	B5	101	HIS
5	B5	117	HIS
6	B6	45	HIS
6	B6	69	HIS
6	B6	96	HIS
6	B6	125	GLN
6	B6	131	ASN
6	B6	136	ASN
4	B7	40	GLN
4	B7	52	HIS
4	B7	115	HIS
4	B7	120	GLN
4	BA	52	HIS
4	BA	81	GLN
4	BA	96	HIS
4	BA	115	HIS
4	BA	120	GLN
7	BB	3	HIS
7	BB	12	HIS
7	BB	16	GLN
7	BB	18	GLN
7	BB	51	ASN
7	BB	70	HIS
7	BB	76	ASN
7	BB	126	GLN
5	BC	20	GLN
5	BC	46	HIS
5	BC	101	HIS
5	BC	117	HIS
6	BD	45	HIS
6	BD	69	HIS
6	BD	96	HIS
6	BD	125	GLN
6	BD	131	ASN
6	BD	136	ASN
4	BE	40	GLN
4	BE	52	HIS
4	BE	115	HIS
4	BE	120	GLN
4	BF	52	HIS
4	BF	81	GLN
4	BF	96	HIS

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Mol	Chain	Res	Type
4	BF	115	HIS
4	BF	120	GLN
7	BG	3	HIS
7	BG	12	HIS
7	BG	16	GLN
7	BG	18	GLN
7	BG	51	ASN
7	BG	70	HIS
7	BG	76	ASN
7	BG	126	GLN
5	BH	20	GLN
5	BH	46	HIS
5	BH	101	HIS
5	BH	117	HIS
6	BI	45	HIS
6	BI	69	HIS
6	BI	96	HIS
6	BI	125	GLN
6	BI	131	ASN
6	BI	136	ASN
4	BJ	40	GLN
4	BJ	52	HIS
4	BJ	115	HIS
4	BJ	120	GLN
4	BK	52	HIS
4	BK	81	GLN
4	BK	96	HIS
4	BK	115	HIS
4	BK	120	GLN
7	BL	3	HIS
7	BL	12	HIS
7	BL	16	GLN
7	BL	18	GLN
7	BL	51	ASN
7	BL	61	HIS
7	BL	70	HIS
7	BL	76	ASN
7	BL	126	GLN
5	BM	20	GLN
5	BM	46	HIS
5	BM	101	HIS
5	BM	117	HIS

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Mol	Chain	Res	Type
6	BN	69	HIS
6	BN	96	HIS
6	BN	125	GLN
6	BN	131	ASN
6	BN	136	ASN
4	BO	40	GLN
4	BO	52	HIS
4	BO	115	HIS
4	BO	120	GLN
4	BP	52	HIS
4	BP	81	GLN
4	BP	96	HIS
4	BP	115	HIS
4	BP	120	GLN
7	BQ	12	HIS
7	BQ	16	GLN
7	BQ	18	GLN
7	BQ	51	ASN
7	BQ	70	HIS
7	BQ	76	ASN
7	BQ	126	GLN
5	BR	20	GLN
5	BR	46	HIS
5	BR	101	HIS
5	BR	117	HIS
6	BS	69	HIS
6	BS	96	HIS
6	BS	125	GLN
6	BS	131	ASN
6	BS	136	ASN
4	BT	40	GLN
4	BT	52	HIS
4	BT	115	HIS
4	BT	120	GLN
4	BU	52	HIS
4	BU	81	GLN
4	BU	96	HIS
4	BU	115	HIS
4	BU	120	GLN
7	BV	3	HIS
7	BV	12	HIS
7	BV	16	GLN

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Mol	Chain	Res	Type
7	BV	18	GLN
7	BV	51	ASN
7	BV	70	HIS
7	BV	76	ASN
7	BV	126	GLN
5	BW	20	GLN
5	BW	46	HIS
5	BW	101	HIS
5	BW	117	HIS
6	BX	69	HIS
6	BX	96	HIS
6	BX	125	GLN
6	BX	131	ASN
6	BX	136	ASN
4	BY	40	GLN
4	BY	52	HIS
4	BY	115	HIS
4	BY	120	GLN
4	BZ	40	GLN
4	BZ	52	HIS
4	BZ	81	GLN
4	BZ	96	HIS
4	BZ	115	HIS
4	BZ	120	GLN
7	Ba	3	HIS
7	Ba	12	HIS
7	Ba	16	GLN
7	Ba	18	GLN
7	Ba	51	ASN
7	Ba	61	HIS
7	Ba	70	HIS
7	Ba	76	ASN
7	Ba	126	GLN
5	Bb	20	GLN
5	Bb	46	HIS
5	Bb	101	HIS
5	Bb	117	HIS
6	Bc	45	HIS
6	Bc	69	HIS
6	Bc	96	HIS
6	Bc	125	GLN
6	Bc	131	ASN

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Mol	Chain	Res	Type
6	Bc	136	ASN
4	Bd	40	GLN
4	Bd	52	HIS
4	Bd	115	HIS
4	Bd	120	GLN
4	Be	52	HIS
4	Be	81	GLN
4	Be	96	HIS
4	Be	115	HIS
4	Be	120	GLN
7	Bf	3	HIS
7	Bf	12	HIS
7	Bf	16	GLN
7	Bf	18	GLN
7	Bf	51	ASN
7	Bf	70	HIS
7	Bf	76	ASN
7	Bf	126	GLN
5	Bg	20	GLN
5	Bg	46	HIS
5	Bg	101	HIS
5	Bg	117	HIS
6	Bh	69	HIS
6	Bh	96	HIS
6	Bh	125	GLN
6	Bh	131	ASN
6	Bh	136	ASN
4	Bi	40	GLN
4	Bi	52	HIS
4	Bi	115	HIS
4	Bi	120	GLN
4	Bj	52	HIS
4	Bj	81	GLN
4	Bj	96	HIS
4	Bj	115	HIS
4	Bj	120	GLN
7	Bk	3	HIS
7	Bk	12	HIS
7	Bk	16	GLN
7	Bk	18	GLN
7	Bk	51	ASN
7	Bk	70	HIS

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Mol	Chain	Res	Type
7	Bk	76	ASN
7	Bk	126	GLN
5	Bl	20	GLN
5	Bl	46	HIS
5	Bl	101	HIS
5	Bl	117	HIS
6	Bm	45	HIS
6	Bm	69	HIS
6	Bm	96	HIS
6	Bm	125	GLN
6	Bm	131	ASN
6	Bm	136	ASN
4	Bn	40	GLN
4	Bn	52	HIS
4	Bn	115	HIS
4	Bn	120	GLN
4	Bo	52	HIS
4	Bo	81	GLN
4	Bo	96	HIS
4	Bo	115	HIS
4	Bo	120	GLN
7	Bp	3	HIS
7	Bp	12	HIS
7	Bp	16	GLN
7	Bp	18	GLN
7	Bp	51	ASN
7	Bp	70	HIS
7	Bp	76	ASN
7	Bp	126	GLN
5	Bq	20	GLN
5	Bq	46	HIS
5	Bq	101	HIS
5	Bq	117	HIS
6	Br	69	HIS
6	Br	96	HIS
6	Br	125	GLN
6	Br	131	ASN
6	Br	136	ASN
4	Bs	40	GLN
4	Bs	52	HIS
4	Bs	115	HIS
4	Bs	120	GLN

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Mol	Chain	Res	Type
4	Bt	52	HIS
4	Bt	81	GLN
4	Bt	96	HIS
4	Bt	115	HIS
4	Bt	120	GLN
7	Bu	3	HIS
7	Bu	12	HIS
7	Bu	16	GLN
7	Bu	18	GLN
7	Bu	51	ASN
7	Bu	70	HIS
7	Bu	76	ASN
7	Bu	126	GLN
5	Bv	20	GLN
5	Bv	46	HIS
5	Bv	101	HIS
5	Bv	117	HIS
6	Bw	45	HIS
6	Bw	69	HIS
6	Bw	96	HIS
6	Bw	125	GLN
6	Bw	131	ASN
6	Bw	136	ASN
4	Bx	40	GLN
4	Bx	52	HIS
4	Bx	115	HIS
4	Bx	120	GLN
4	By	52	HIS
4	By	81	GLN
4	By	96	HIS
4	By	115	HIS
4	By	120	GLN
7	Bz	3	HIS
7	Bz	12	HIS
7	Bz	16	GLN
7	Bz	18	GLN
7	Bz	51	ASN
7	Bz	70	HIS
7	Bz	76	ASN
7	Bz	126	GLN
8	C0	11	GLN
8	C0	18	ASN

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Mol	Chain	Res	Type
8	C0	36	ASN
8	C0	49	GLN
8	C0	172	ASN
8	C0	186	GLN
9	C1	74	GLN
9	C1	173	ASN
9	C1	217	GLN
10	C2	10	HIS
10	C2	75	GLN
10	C2	116	HIS
7	C3	5	HIS
7	C3	12	HIS
7	C3	16	GLN
7	C3	18	GLN
7	C3	51	ASN
7	C3	70	HIS
7	C3	76	ASN
7	C3	126	GLN
5	C4	20	GLN
5	C4	46	HIS
5	C4	96	HIS
5	C4	117	HIS
8	C5	11	GLN
8	C5	18	ASN
8	C5	36	ASN
8	C5	49	GLN
8	C5	172	ASN
8	C5	186	GLN
9	C6	74	GLN
9	C6	173	ASN
9	C6	217	GLN
10	C7	10	HIS
10	C7	75	GLN
10	C7	116	HIS
7	CA	12	HIS
7	CA	16	GLN
7	CA	18	GLN
7	CA	51	ASN
7	CA	70	HIS
7	CA	126	GLN
5	CB	20	GLN
5	CB	46	HIS

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Mol	Chain	Res	Type
5	CB	96	HIS
5	CB	117	HIS
8	CC	11	GLN
8	CC	18	ASN
8	CC	36	ASN
8	CC	49	GLN
8	CC	172	ASN
8	CC	186	GLN
9	CD	74	GLN
9	CD	173	ASN
9	CD	217	GLN
10	CE	10	HIS
10	CE	75	GLN
10	CE	116	HIS
7	CF	12	HIS
7	CF	16	GLN
7	CF	18	GLN
7	CF	51	ASN
7	CF	61	HIS
7	CF	70	HIS
7	CF	126	GLN
5	CG	20	GLN
5	CG	46	HIS
5	CG	96	HIS
5	CG	117	HIS
8	CH	11	GLN
8	CH	18	ASN
8	CH	36	ASN
8	CH	49	GLN
8	CH	172	ASN
8	CH	186	GLN
9	CI	74	GLN
9	CI	173	ASN
9	CI	217	GLN
10	CJ	10	HIS
10	CJ	75	GLN
10	CJ	116	HIS
7	CK	12	HIS
7	CK	16	GLN
7	CK	18	GLN
7	CK	51	ASN
7	CK	61	HIS

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Mol	Chain	Res	Type
7	CK	70	HIS
7	CK	76	ASN
7	CK	126	GLN
5	CL	20	GLN
5	CL	46	HIS
5	CL	96	HIS
5	CL	117	HIS
8	CM	11	GLN
8	CM	18	ASN
8	CM	36	ASN
8	CM	49	GLN
8	CM	166	GLN
8	CM	172	ASN
8	CM	186	GLN
9	CN	74	GLN
9	CN	173	ASN
9	CN	217	GLN
10	CO	10	HIS
10	CO	75	GLN
10	CO	116	HIS
7	CP	12	HIS
7	CP	16	GLN
7	CP	18	GLN
7	CP	51	ASN
7	CP	61	HIS
7	CP	70	HIS
7	CP	76	ASN
7	CP	126	GLN
5	CQ	20	GLN
5	CQ	46	HIS
5	CQ	96	HIS
5	CQ	117	HIS
5	CQ	141	GLN
8	CR	11	GLN
8	CR	18	ASN
8	CR	36	ASN
8	CR	49	GLN
8	CR	172	ASN
8	CR	186	GLN
9	CS	17	ASN
9	CS	74	GLN
9	CS	173	ASN

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Mol	Chain	Res	Type
9	CS	217	GLN
10	CT	10	HIS
10	CT	75	GLN
10	CT	116	HIS
7	CU	12	HIS
7	CU	16	GLN
7	CU	18	GLN
7	CU	51	ASN
7	CU	61	HIS
7	CU	70	HIS
7	CU	76	ASN
7	CU	126	GLN
5	CV	20	GLN
5	CV	46	HIS
5	CV	96	HIS
5	CV	117	HIS
5	CV	141	GLN
8	CW	11	GLN
8	CW	18	ASN
8	CW	36	ASN
8	CW	49	GLN
8	CW	172	ASN
8	CW	186	GLN
9	CX	74	GLN
9	CX	173	ASN
9	CX	217	GLN
10	CY	10	HIS
10	CY	75	GLN
10	CY	116	HIS
10	CY	174	HIS
7	CZ	5	HIS
7	CZ	12	HIS
7	CZ	16	GLN
7	CZ	18	GLN
7	CZ	51	ASN
7	CZ	70	HIS
7	CZ	76	ASN
7	CZ	126	GLN
5	Ca	20	GLN
5	Ca	46	HIS
5	Ca	96	HIS
5	Ca	117	HIS

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Mol	Chain	Res	Type
8	Cb	11	GLN
8	Cb	18	ASN
8	Cb	36	ASN
8	Cb	49	GLN
8	Cb	172	ASN
8	Cb	186	GLN
9	Cc	74	GLN
9	Cc	173	ASN
9	Cc	217	GLN
10	Cd	10	HIS
10	Cd	75	GLN
10	Cd	116	HIS
7	Ce	12	HIS
7	Ce	16	GLN
7	Ce	18	GLN
7	Ce	51	ASN
7	Ce	61	HIS
7	Ce	70	HIS
7	Ce	126	GLN
5	Cf	20	GLN
5	Cf	46	HIS
5	Cf	96	HIS
5	Cf	117	HIS
8	Cg	11	GLN
8	Cg	18	ASN
8	Cg	36	ASN
8	Cg	49	GLN
8	Cg	172	ASN
8	Cg	186	GLN
9	Ch	74	GLN
9	Ch	173	ASN
9	Ch	217	GLN
10	Ci	10	HIS
10	Ci	75	GLN
10	Ci	116	HIS
7	Cj	12	HIS
7	Cj	16	GLN
7	Cj	18	GLN
7	Cj	51	ASN
7	Cj	61	HIS
7	Cj	70	HIS
7	Cj	126	GLN

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Mol	Chain	Res	Type
5	Ck	20	GLN
5	Ck	46	HIS
5	Ck	96	HIS
5	Ck	117	HIS
8	Cl	11	GLN
8	Cl	18	ASN
8	Cl	36	ASN
8	Cl	49	GLN
8	Cl	172	ASN
8	Cl	186	GLN
9	Cm	74	GLN
9	Cm	173	ASN
9	Cm	217	GLN
10	Cn	10	HIS
10	Cn	75	GLN
10	Cn	116	HIS
7	Co	12	HIS
7	Co	16	GLN
7	Co	18	GLN
7	Co	51	ASN
7	Co	61	HIS
7	Co	70	HIS
7	Co	76	ASN
7	Co	126	GLN
5	Cp	20	GLN
5	Cp	46	HIS
5	Cp	96	HIS
5	Cp	117	HIS
8	Cq	11	GLN
8	Cq	18	ASN
8	Cq	36	ASN
8	Cq	49	GLN
8	Cq	166	GLN
8	Cq	172	ASN
8	Cq	186	GLN
9	Cr	74	GLN
9	Cr	173	ASN
9	Cr	217	GLN
10	Cs	10	HIS
10	Cs	75	GLN
10	Cs	116	HIS
7	Ct	12	HIS

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Mol	Chain	Res	Type
7	Ct	16	GLN
7	Ct	18	GLN
7	Ct	51	ASN
7	Ct	61	HIS
7	Ct	70	HIS
7	Ct	76	ASN
7	Ct	126	GLN
5	Cu	20	GLN
5	Cu	46	HIS
5	Cu	96	HIS
5	Cu	117	HIS
5	Cu	141	GLN
8	Cv	11	GLN
8	Cv	18	ASN
8	Cv	36	ASN
8	Cv	49	GLN
8	Cv	172	ASN
8	Cv	186	GLN
9	Cw	74	GLN
9	Cw	173	ASN
9	Cw	217	GLN
10	Cx	10	HIS
10	Cx	75	GLN
10	Cx	116	HIS
7	Cy	12	HIS
7	Cy	16	GLN
7	Cy	18	GLN
7	Cy	51	ASN
7	Cy	61	HIS
7	Cy	70	HIS
7	Cy	76	ASN
7	Cy	126	GLN
5	Cz	20	GLN
5	Cz	46	HIS
5	Cz	96	HIS
5	Cz	117	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
8	C0	2
8	C5	2
8	CC	2
8	CH	2
8	CM	2
8	CR	2
8	CW	2
8	Cb	2
8	Cg	2
8	Cl	2
8	Cq	2
8	Cv	2
9	C1	1
9	C6	1
9	CD	1
9	CI	1
9	CN	1
9	CS	1
9	CX	1
9	Cc	1

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Mol	Chain	Number of breaks
9	Ch	1
9	Cm	1
9	Cr	1
9	Cw	1
10	C2	1
10	C7	1
10	CE	1
10	CJ	1
10	CO	1
10	CT	1
10	CY	1
10	Cd	1
10	Ci	1
10	Cn	1
10	Cs	1
10	Cx	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C0	57:LEU	C	58:GLU	N	4.76
1	C5	57:LEU	C	58:GLU	N	4.76
1	CC	57:LEU	C	58:GLU	N	4.76
1	CH	57:LEU	C	58:GLU	N	4.76
1	CM	57:LEU	C	58:GLU	N	4.76
1	CR	57:LEU	C	58:GLU	N	4.76
1	CW	57:LEU	C	58:GLU	N	4.76
1	Cb	57:LEU	C	58:GLU	N	4.76
1	Cg	57:LEU	C	58:GLU	N	4.76
1	Cl	57:LEU	C	58:GLU	N	4.76
1	Cq	57:LEU	C	58:GLU	N	4.76
1	Cv	57:LEU	C	58:GLU	N	4.76
1	C1	58:GLU	C	59:GLY	N	4.75
1	C6	58:GLU	C	59:GLY	N	4.75
1	CD	58:GLU	C	59:GLY	N	4.75
1	CI	58:GLU	C	59:GLY	N	4.75
1	CN	58:GLU	C	59:GLY	N	4.75
1	CS	58:GLU	C	59:GLY	N	4.75
1	CX	58:GLU	C	59:GLY	N	4.75
1	Cc	58:GLU	C	59:GLY	N	4.75
1	Ch	58:GLU	C	59:GLY	N	4.75
1	Cm	58:GLU	C	59:GLY	N	4.75
1	Cr	58:GLU	C	59:GLY	N	4.75

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Cw	58:GLU	C	59:GLY	N	4.75
1	C0	43:ASP	C	44:LYS	N	3.32
1	C5	43:ASP	C	44:LYS	N	3.32
1	CC	43:ASP	C	44:LYS	N	3.32
1	CH	43:ASP	C	44:LYS	N	3.32
1	CM	43:ASP	C	44:LYS	N	3.32
1	CR	43:ASP	C	44:LYS	N	3.32
1	CW	43:ASP	C	44:LYS	N	3.32
1	Cb	43:ASP	C	44:LYS	N	3.32
1	Cg	43:ASP	C	44:LYS	N	3.32
1	Cl	43:ASP	C	44:LYS	N	3.32
1	Cq	43:ASP	C	44:LYS	N	3.32
1	Cv	43:ASP	C	44:LYS	N	3.32
1	C2	57:LEU	C	58:GLU	N	1.62
1	C7	57:LEU	C	58:GLU	N	1.62
1	CE	57:LEU	C	58:GLU	N	1.62
1	CJ	57:LEU	C	58:GLU	N	1.62
1	CO	57:LEU	C	58:GLU	N	1.62
1	CT	57:LEU	C	58:GLU	N	1.62
1	CY	57:LEU	C	58:GLU	N	1.62
1	Cd	57:LEU	C	58:GLU	N	1.62
1	Ci	57:LEU	C	58:GLU	N	1.62
1	Cn	57:LEU	C	58:GLU	N	1.62
1	Cs	57:LEU	C	58:GLU	N	1.62
1	Cx	57:LEU	C	58:GLU	N	1.62

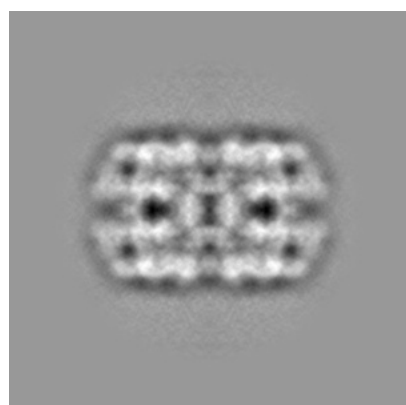
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2627. These allow visual inspection of the internal detail of the map and identification of artifacts.

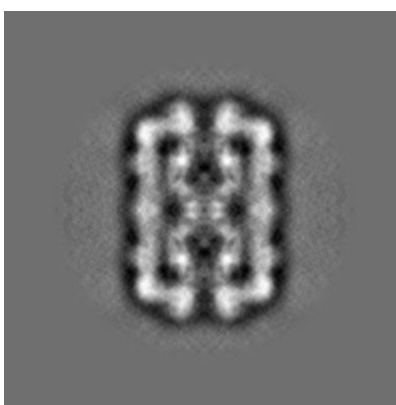
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

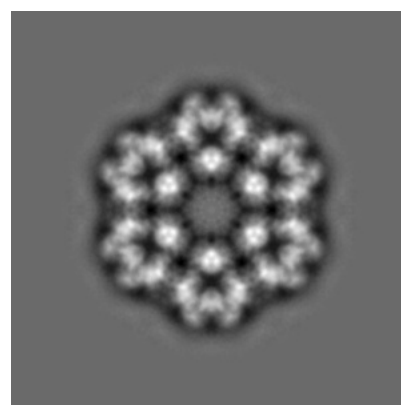
6.1.1 Primary map



X



Y

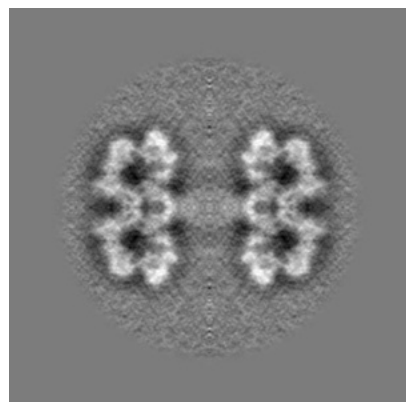


Z

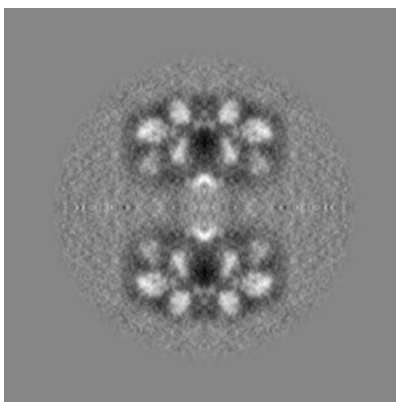
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

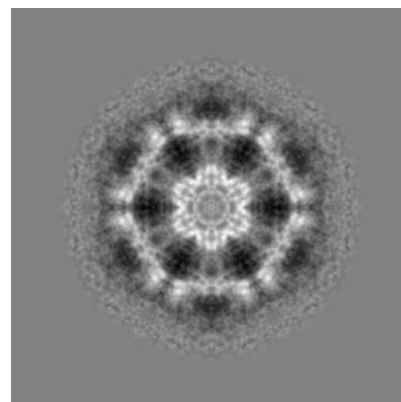
6.2.1 Primary map



X Index: 200



Y Index: 200

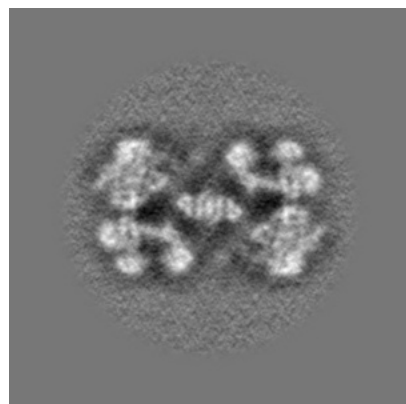


Z Index: 200

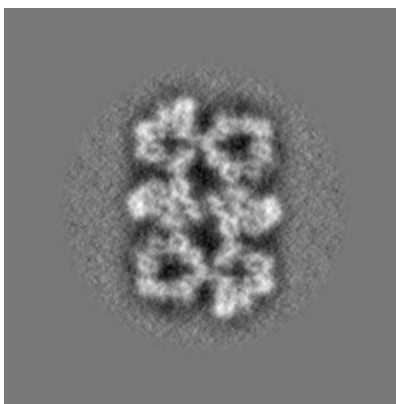
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

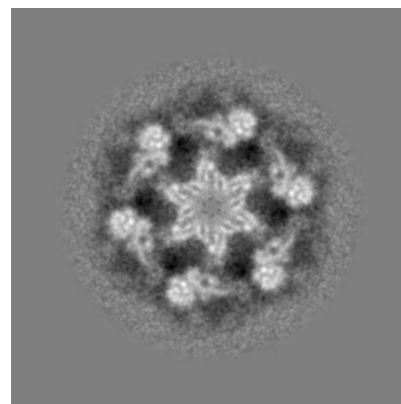
6.3.1 Primary map



X Index: 173



Y Index: 151

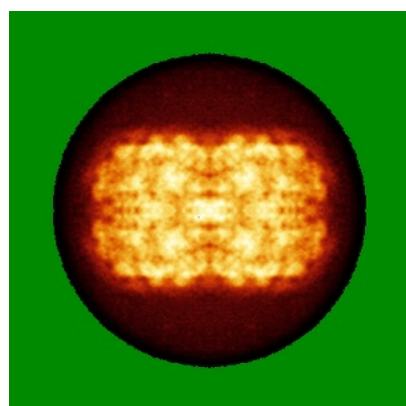


Z Index: 205

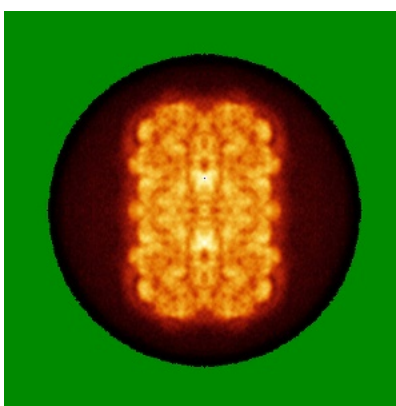
The images above show the largest variance slices of the map in three orthogonal directions.

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

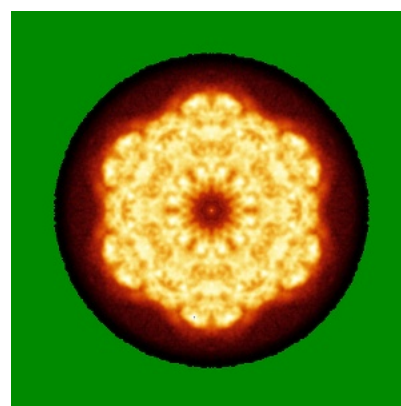
6.4.1 Primary map



X



Y

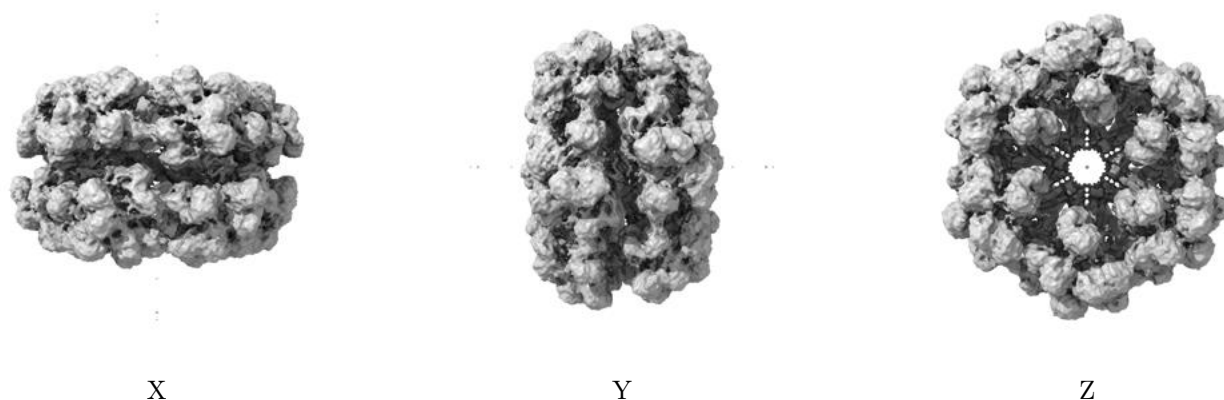


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.042. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

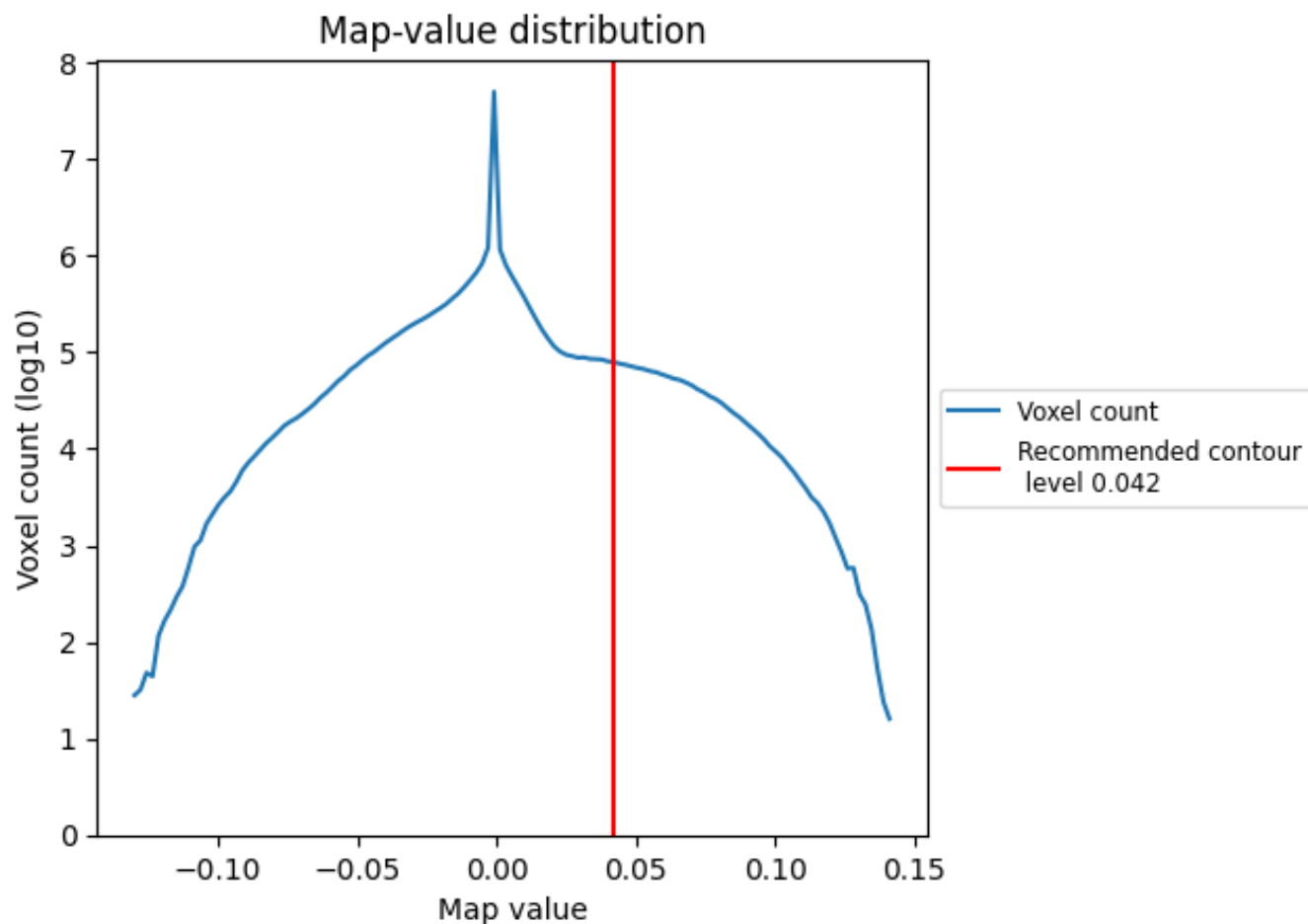
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

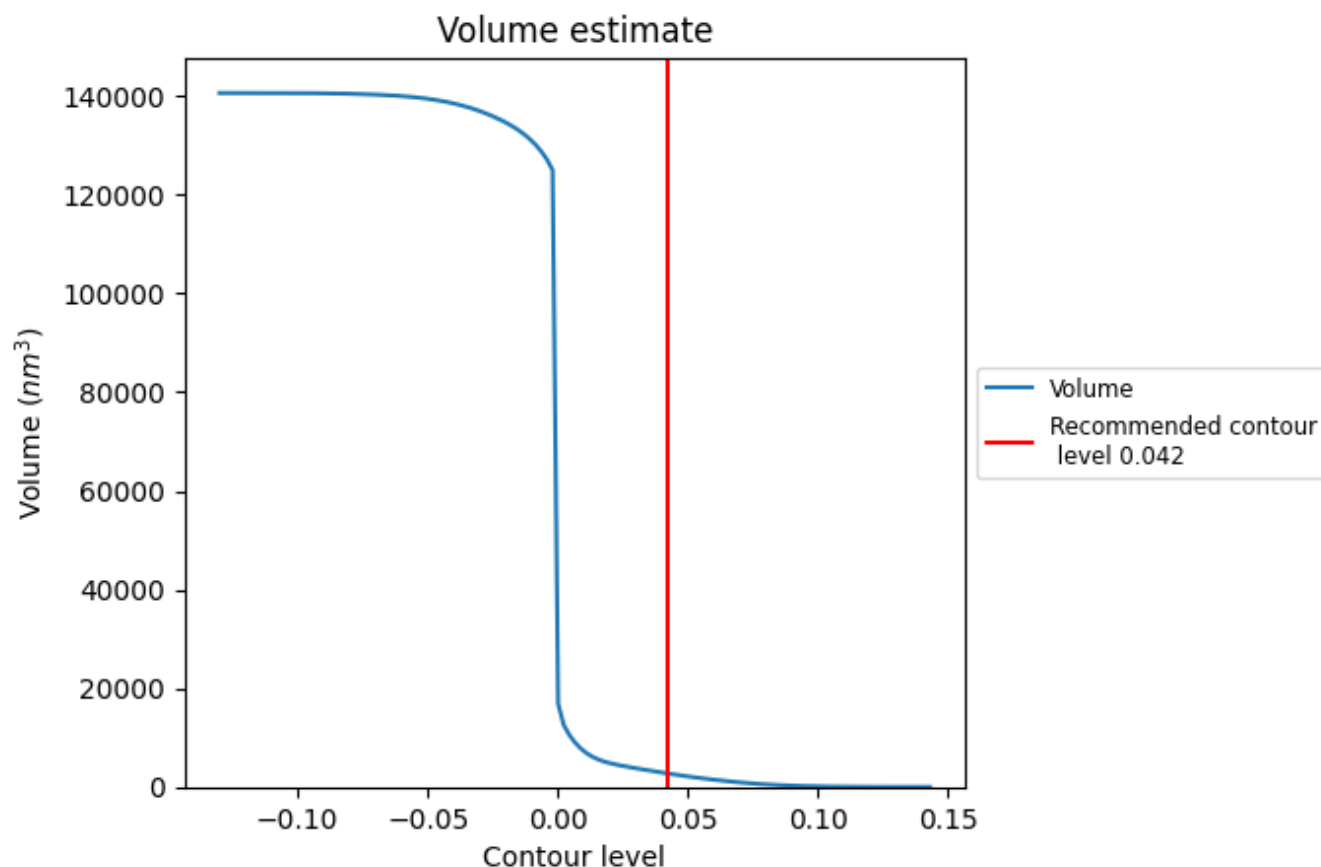
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

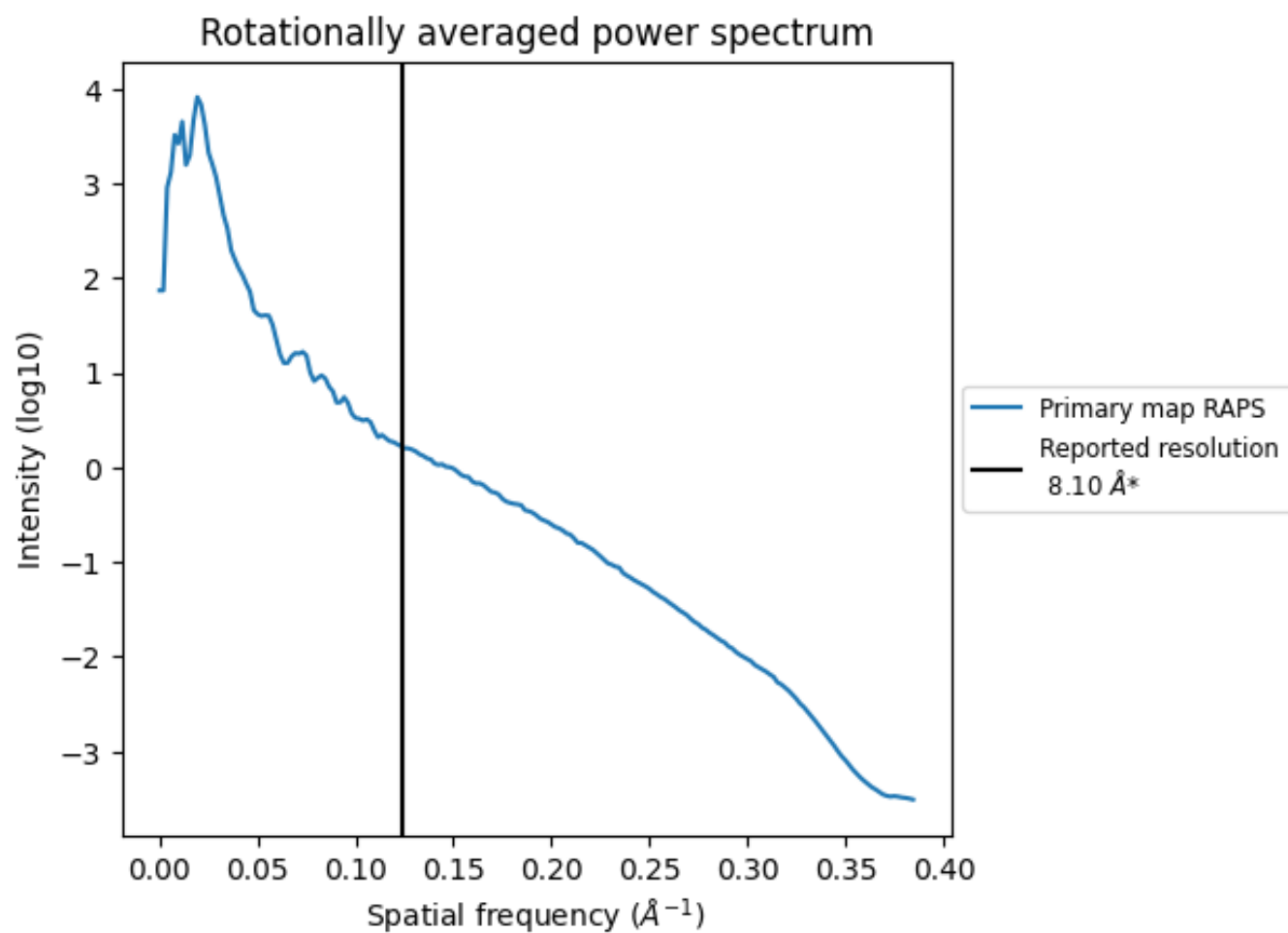
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2748 nm^3 ; this corresponds to an approximate mass of 2483 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.123 Å⁻¹

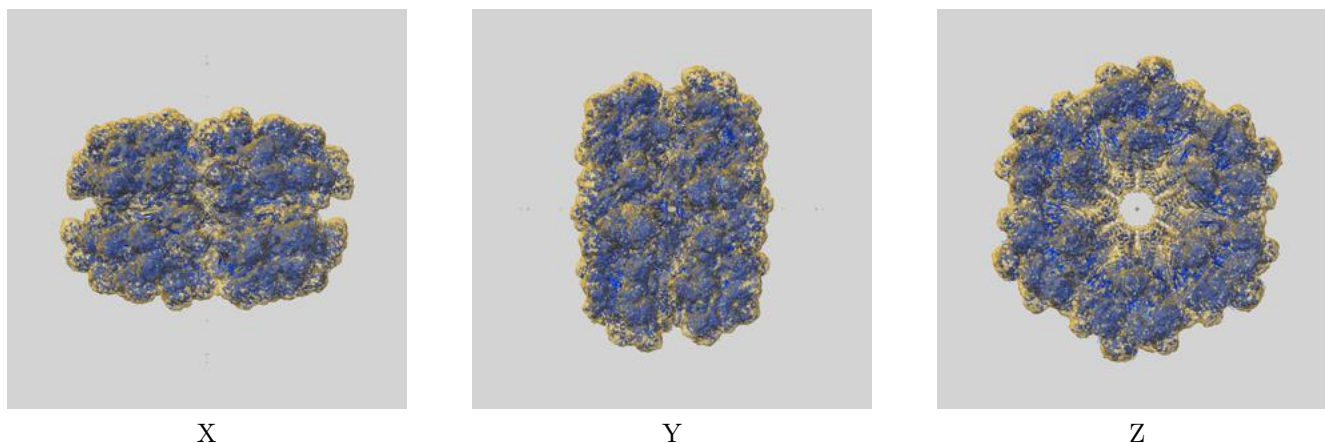
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

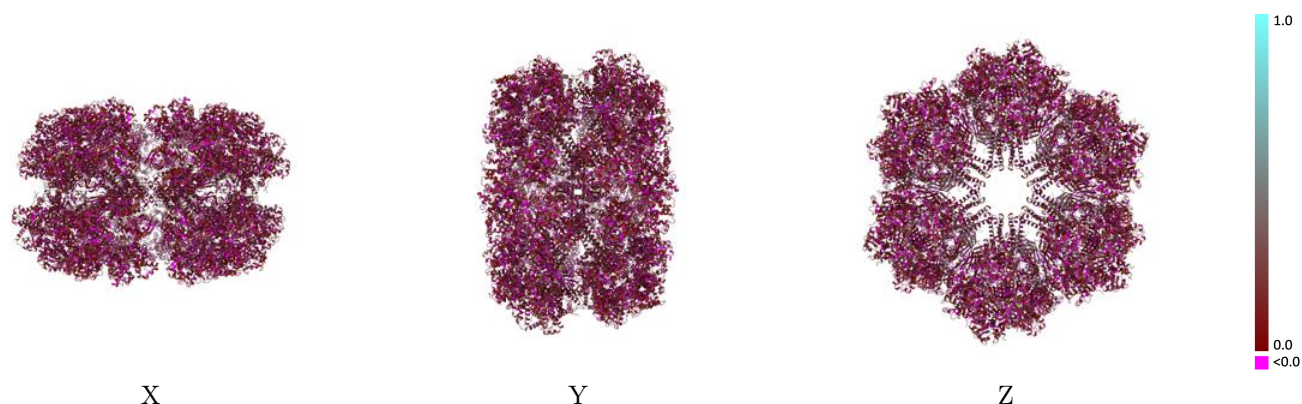
This section contains information regarding the fit between EMDB map EMD-2627 and PDB model 4V93. Per-residue inclusion information can be found in section [3](#) on page [24](#).

9.1 Map-model overlay [i](#)



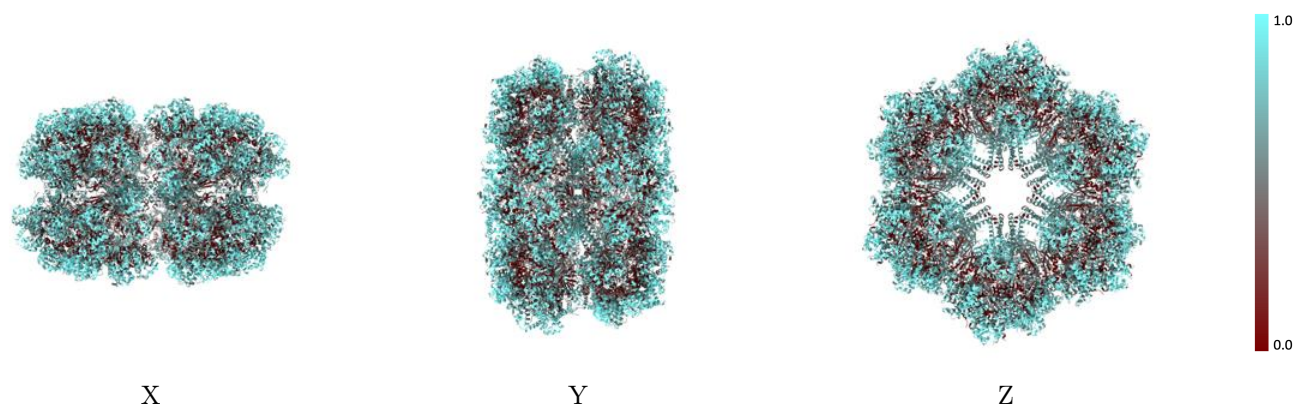
The images above show the 3D surface view of the map at the recommended contour level 0.042 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



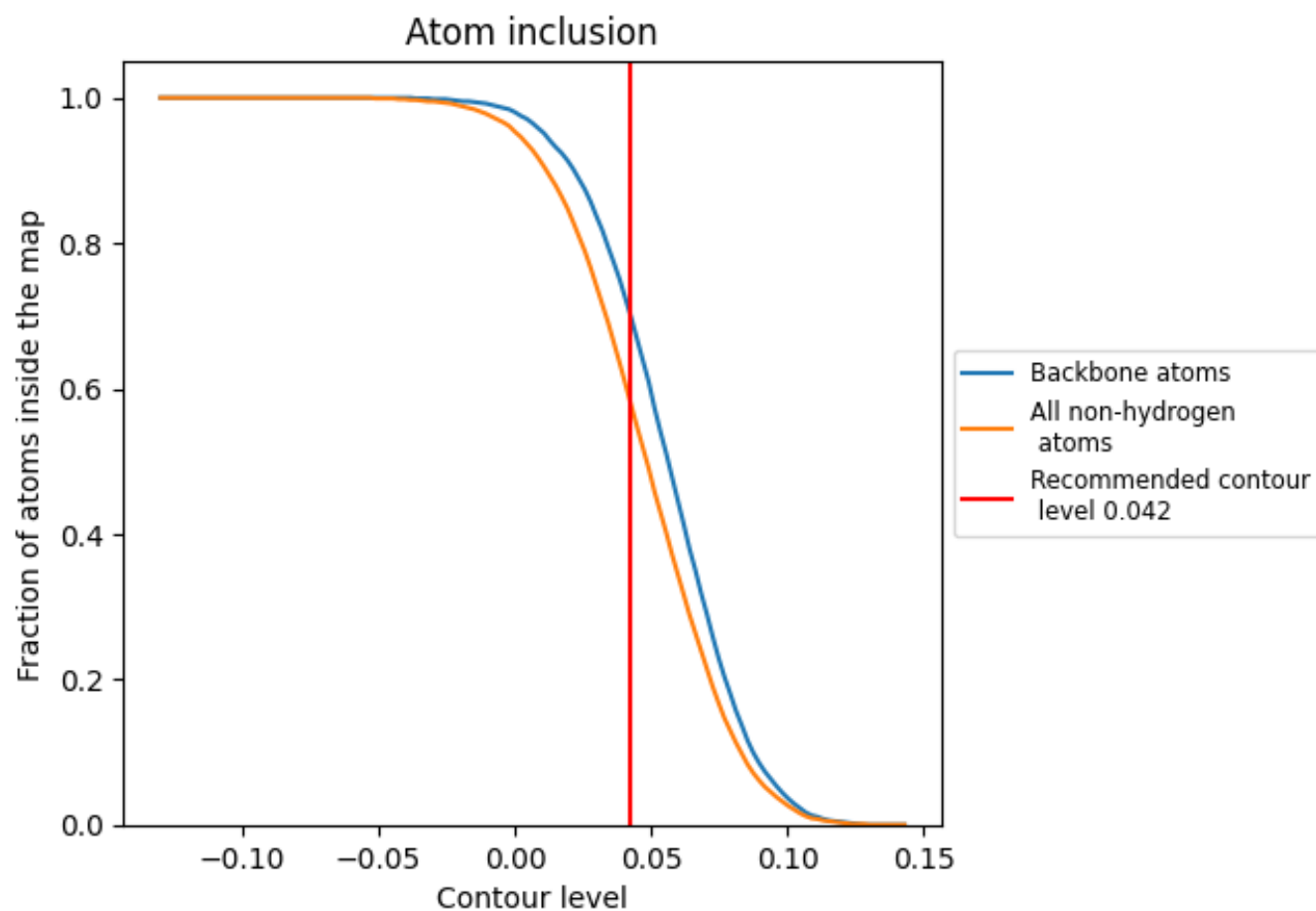
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.042).

9.4 Atom inclusion [i](#)



At the recommended contour level, 71% of all backbone atoms, 59% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.042) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5870	 0.1070
A0	 0.5470	 0.1090
A1	 0.6720	 0.1140
A2	 0.6220	 0.1040
A3	 0.7120	 0.1110
A4	 0.6600	 0.1230
A5	 0.5450	 0.1080
A6	 0.6710	 0.1130
A7	 0.6210	 0.1070
AA	 0.7130	 0.1160
AB	 0.6610	 0.1270
AC	 0.5460	 0.1110
AD	 0.6700	 0.1140
AE	 0.6190	 0.1050
AF	 0.7080	 0.1140
AG	 0.6620	 0.1260
AH	 0.5470	 0.1090
AI	 0.6720	 0.1140
AJ	 0.6220	 0.1050
AK	 0.7120	 0.1140
AL	 0.6600	 0.1250
AM	 0.5450	 0.1080
AN	 0.6710	 0.1120
AO	 0.6210	 0.1060
AP	 0.7130	 0.1140
AQ	 0.6610	 0.1260
AR	 0.5460	 0.1090
AS	 0.6700	 0.1120
AT	 0.6190	 0.1060
AU	 0.7080	 0.1150
AV	 0.6620	 0.1270
AW	 0.5470	 0.1120
AX	 0.6720	 0.1170
AY	 0.6220	 0.1040
AZ	 0.7120	 0.1150



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Chain	Atom inclusion	Q-score
Aa	 0.6600	 0.1250
Ab	 0.5450	 0.1120
Ac	 0.6710	 0.1160
Ad	 0.6210	 0.1050
Ae	 0.7130	 0.1130
Af	 0.6610	 0.1250
Ag	 0.5460	 0.1070
Ah	 0.6700	 0.1110
Ai	 0.6190	 0.1070
Aj	 0.7080	 0.1120
Ak	 0.6620	 0.1230
Al	 0.5470	 0.1080
Am	 0.6720	 0.1150
An	 0.6220	 0.1040
Ao	 0.7120	 0.1120
Ap	 0.6600	 0.1210
Aq	 0.5450	 0.1060
Ar	 0.6710	 0.1150
As	 0.6210	 0.1050
At	 0.7130	 0.1110
Au	 0.6600	 0.1220
Av	 0.5460	 0.1070
Aw	 0.6700	 0.1140
Ax	 0.6190	 0.1060
Ay	 0.7080	 0.1100
Az	 0.6620	 0.1240
B0	 0.7280	 0.1310
B1	 0.5450	 0.0870
B2	 0.6060	 0.1130
B3	 0.5240	 0.0950
B4	 0.6600	 0.1200
B5	 0.7260	 0.1300
B6	 0.5430	 0.0850
B7	 0.6080	 0.1150
BA	 0.5230	 0.0900
BB	 0.6600	 0.1230
BC	 0.7260	 0.1250
BD	 0.5450	 0.0830
BE	 0.6090	 0.1150
BF	 0.5200	 0.0920
BG	 0.6570	 0.1230
BH	 0.7280	 0.1280

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Chain	Atom inclusion	Q-score
BI	0.5450	0.0850
BJ	0.6060	0.1170
BK	0.5240	0.0980
BL	0.6600	0.1240
BM	0.7260	0.1290
BN	0.5430	0.0810
BO	0.6080	0.1160
BP	0.5230	0.0950
BQ	0.6600	0.1270
BR	0.7260	0.1290
BS	0.5450	0.0830
BT	0.6090	0.1140
BU	0.5200	0.0930
BV	0.6570	0.1230
BW	0.7280	0.1290
BX	0.5450	0.0840
BY	0.6060	0.1120
BZ	0.5240	0.0940
Ba	0.6600	0.1220
Bb	0.7260	0.1280
Bc	0.5430	0.0820
Bd	0.6080	0.1120
Be	0.5230	0.0910
Bf	0.6600	0.1180
Bg	0.7260	0.1280
Bh	0.5450	0.0830
Bi	0.6090	0.1170
Bj	0.5200	0.0880
Bk	0.6570	0.1190
Bl	0.7280	0.1310
Bm	0.5450	0.0820
Bn	0.6060	0.1170
Bo	0.5240	0.0910
Bp	0.6600	0.1220
Bq	0.7260	0.1290
Br	0.5430	0.0810
Bs	0.6080	0.1160
Bt	0.5230	0.0880
Bu	0.6600	0.1220
Bv	0.7260	0.1300
Bw	0.5450	0.0840
Bx	0.6090	0.1140

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Chain	Atom inclusion	Q-score
By	 0.5200	 0.0900
Bz	 0.6570	 0.1200
C0	 0.4220	 0.0950
C1	 0.4210	 0.0940
C2	 0.5450	 0.1010
C3	 0.6290	 0.0980
C4	 0.7010	 0.1200
C5	 0.4190	 0.0960
C6	 0.4230	 0.0950
C7	 0.5460	 0.1040
CA	 0.6320	 0.0990
CB	 0.7010	 0.1150
CC	 0.4200	 0.0980
CD	 0.4230	 0.0990
CE	 0.5440	 0.1020
CF	 0.6300	 0.0990
CG	 0.7060	 0.1160
CH	 0.4220	 0.0960
CI	 0.4210	 0.0990
CJ	 0.5450	 0.1040
CK	 0.6290	 0.0980
CL	 0.7010	 0.1130
CM	 0.4190	 0.0960
CN	 0.4230	 0.0990
CO	 0.5460	 0.1050
CP	 0.6320	 0.0970
CQ	 0.7010	 0.1140
CR	 0.4200	 0.0970
CS	 0.4230	 0.0980
CT	 0.5440	 0.1040
CU	 0.6300	 0.0950
CV	 0.7060	 0.1170
CW	 0.4220	 0.0960
CX	 0.4210	 0.0970
CY	 0.5450	 0.1030
CZ	 0.6290	 0.0960
Ca	 0.7010	 0.1190
Cb	 0.4190	 0.0970
Cc	 0.4230	 0.0970
Cd	 0.5460	 0.1020
Ce	 0.6320	 0.1020
Cf	 0.7010	 0.1190

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Chain	Atom inclusion	Q-score
Cg	 0.4200	 0.0960
Ch	 0.4230	 0.0970
Ci	 0.5440	 0.1040
Cj	 0.6300	 0.1010
Ck	 0.7060	 0.1180
Cl	 0.4220	 0.0940
Cm	 0.4210	 0.0960
Cn	 0.5450	 0.1050
Co	 0.6290	 0.0980
Cp	 0.7010	 0.1170
Cq	 0.4190	 0.0940
Cr	 0.4230	 0.0960
Cs	 0.5460	 0.1030
Ct	 0.6320	 0.0980
Cu	 0.7010	 0.1170
Cv	 0.4200	 0.0960
Cw	 0.4230	 0.0950
Cx	 0.5440	 0.1030
Cy	 0.6300	 0.0960
Cz	 0.7060	 0.1190