



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 17, 2014 – 05:43 AM BST

PDB ID : 4V8K  
Title : Crystal structure of the LH1-RC complex from Thermochromatium tepidum  
in P21 form  
Authors : Niwa, S.; Takeda, K.; Wang-Otomo, Z.-Y.; Miki, K.  
Deposited on : 2013-11-22  
Resolution : 3.01 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.  
We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)  
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

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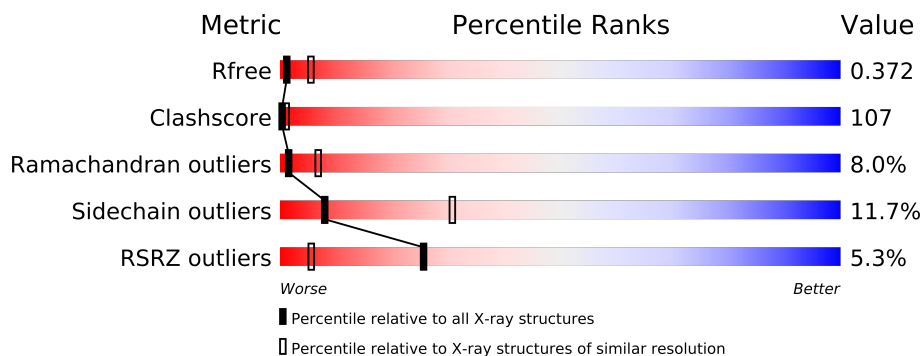
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.16 November 2013  
Xtriage (Phenix) : dev-1323  
EDS : stable23397  
Percentile statistics : 21963  
Refmac : 5.8.0049  
CCP4 : 6.3.0 (Settle)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : stable23397

# 1 Overall quality at a glance

The reported resolution of this entry is 3.01 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	66092	1216 (3.00-3.00)
Clashscore	79885	1594 (3.00-3.00)
Ramachandran outliers	78287	1537 (3.00-3.00)
Sidechain outliers	78261	1540 (3.00-3.00)
RSRZ outliers	66119	1217 (3.00-3.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	AC	404	
1	BC	404	
2	AL	281	
2	BL	281	
3	AM	325	
3	BM	325	
4	AH	259	
4	BH	259	
5	A1	61	
5	A3	61	
5	A5	61	
5	A7	61	
5	A9	61	
5	AA	61	

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Mol	Chain	Length	Quality of chain
5	AD	61	
5	AF	61	
5	AI	61	
5	AK	61	
5	AO	61	
5	AQ	61	
5	AS	61	
5	AU	61	
5	AW	61	
5	AY	61	
5	B1	61	
5	B3	61	
5	B5	61	
5	B7	61	
5	B9	61	
5	BA	61	
5	BD	61	
5	BF	61	
5	BI	61	
5	BK	61	
5	BO	61	
5	BQ	61	
5	BS	61	
5	BU	61	
5	BW	61	
5	BY	61	
6	A0	47	
6	A2	47	
6	A4	47	
6	A6	47	
6	A8	47	
6	AB	47	
6	AE	47	
6	AG	47	
6	AJ	47	
6	AN	47	
6	AP	47	
6	AR	47	
6	AT	47	
6	AV	47	
6	AX	47	
6	AZ	47	

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Mol	Chain	Length	Quality of chain
6	B0	47	
6	B2	47	
6	B4	47	
6	B6	47	
6	B8	47	
6	BB	47	
6	BE	47	
6	BG	47	
6	BJ	47	
6	BN	47	
6	BP	47	
6	BR	47	
6	BT	47	
6	BV	47	
6	BX	47	
6	BZ	47	

The following table lists non-polymeric compounds that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
13	MQ8	AM	405	-	X
13	MQ8	BM	405	-	X
14	CRT	A0	101	-	X
14	CRT	A1	103	-	X
14	CRT	A2	102	-	X
14	CRT	A5	103	-	X
14	CRT	A7	102	-	X
14	CRT	AA	102	-	X
14	CRT	AB	102	-	X
14	CRT	AG	102	-	X
14	CRT	AJ	102	-	X
14	CRT	AN	102	-	X
14	CRT	AP	102	-	X
14	CRT	AR	102	-	X
14	CRT	AS	104	-	X
14	CRT	AT	102	-	X
14	CRT	AW	102	-	X
14	CRT	AX	102	-	X
14	CRT	B0	101	-	X
14	CRT	B1	103	-	X
14	CRT	B2	102	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
14	CRT	B5	103	-	X
14	CRT	B7	102	-	X
14	CRT	BA	102	-	X
14	CRT	BB	102	-	X
14	CRT	BF	103	-	X
14	CRT	BG	102	-	X
14	CRT	BN	102	-	X
14	CRT	BO	103	-	X
14	CRT	BP	102	-	X
14	CRT	BS	103	-	X
14	CRT	BU	103	-	X
14	CRT	BV	102	-	X
14	CRT	BW	103	-	X
15	PEF	AM	407	-	X
15	PEF	AM	409	-	X
15	PEF	AS	101	-	X
15	PEF	BM	407	-	X
15	PEF	BQ	101	-	X
9	BCL	A3	103	-	X
9	BCL	AI	102	-	X
9	BCL	AQ	102	-	X
9	BCL	AS	103	-	X
9	BCL	AU	102	-	X
9	BCL	AW	101	-	X
9	BCL	B0	102	-	X
9	BCL	B7	103	-	X
9	BCL	B9	102	-	X
9	BCL	BD	102	-	X
9	BCL	BK	102	-	X
9	BCL	BM	402	-	X
9	BCL	BN	101	-	X
9	BCL	BQ	103	-	X

## 2 Entry composition

There are 17 unique types of molecules in this entry. The entry contains 50862 atoms, of which 0 are hydrogen and 0 are deuterium.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Photosynthetic reaction center cytochrome c subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AC	317	Total	C	N	O	S	0	0	0
			2458	1551	430	460	17			
1	BC	317	Total	C	N	O	S	0	0	0
			2458	1551	430	460	17			

- Molecule 2 is a protein called Photosynthetic reaction center L subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AL	280	Total	C	N	O	S	0	0	0
			2231	1501	359	361	10			
2	BL	280	Total	C	N	O	S	0	0	0
			2231	1501	359	361	10			

- Molecule 3 is a protein called Photosynthetic reaction center M subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AM	319	Total	C	N	O	S	0	0	0
			2551	1713	417	410	11			
3	BM	319	Total	C	N	O	S	0	0	0
			2551	1713	417	410	11			

- Molecule 4 is a protein called Photosynthetic reaction center H subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AH	258	Total	C	N	O	S	0	0	0
			1982	1275	339	363	5			
4	BH	258	Total	C	N	O	S	0	0	0
			1982	1275	339	363	5			

- Molecule 5 is a protein called LH1 alpha polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AA	48	Total	C	N	O	S	0	0	0
			392	265	62	64	1			
5	AD	57	Total	C	N	O	S	0	0	0
			447	295	74	77	1			
5	AF	59	Total	C	N	O	S	0	0	0
			462	304	76	80	2			
5	AI	59	Total	C	N	O	S	0	0	0
			462	304	76	80	2			
5	AK	58	Total	C	N	O	S	0	0	0
			455	300	75	78	2			
5	AO	59	Total	C	N	O	S	0	0	0
			462	304	76	80	2			
5	AQ	57	Total	C	N	O	S	0	0	0
			447	295	74	77	1			
5	AS	59	Total	C	N	O	S	0	0	0
			462	304	76	80	2			
5	AU	60	Total	C	N	O	S	0	0	0
			473	313	77	81	2			
5	AW	60	Total	C	N	O	S	0	0	0
			473	313	77	81	2			
5	AY	60	Total	C	N	O	S	0	0	0
			473	313	77	81	2			
5	A1	58	Total	C	N	O	S	0	0	0
			455	300	75	78	2			
5	A3	57	Total	C	N	O	S	0	0	0
			447	295	74	77	1			
5	A5	56	Total	C	N	O	S	0	0	0
			444	294	73	75	2			
5	A7	51	Total	C	N	O	S	0	0	0
			417	279	67	69	2			
5	A9	60	Total	C	N	O	S	0	0	0
			473	313	77	81	2			
5	BA	55	Total	C	N	O	S	0	0	0
			448	299	72	75	2			
5	BD	45	Total	C	N	O	S	0	0	0
			370	250	59	60	1			
5	BF	56	Total	C	N	O	S	0	0	0
			444	294	73	75	2			
5	BI	50	Total	C	N	O	S	0	0	0
			409	274	66	68	1			
5	BK	60	Total	C	N	O	S	0	0	0
			473	313	77	81	2			
5	BO	59	Total	C	N	O	S	0	0	0
			462	304	76	80	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	BQ	59	Total	C	N	O	S	0	0	0
			467	310	76	79	2			
5	BS	59	Total	C	N	O	S	0	0	0
			462	304	76	80	2			
5	BU	58	Total	C	N	O	S	0	0	0
			462	307	75	78	2			
5	BW	58	Total	C	N	O	S	0	0	0
			455	300	75	78	2			
5	BY	54	Total	C	N	O	S	0	0	0
			426	284	69	72	1			
5	B1	54	Total	C	N	O	S	0	0	0
			426	284	69	72	1			
5	B3	60	Total	C	N	O	S	0	0	0
			473	313	77	81	2			
5	B5	51	Total	C	N	O	S	0	0	0
			417	279	67	69	2			
5	B7	54	Total	C	N	O	S	0	0	0
			426	284	69	72	1			
5	B9	51	Total	C	N	O	S	0	0	0
			417	279	67	69	2			

- Molecule 6 is a protein called LH1 beta polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AB	40	Total	C	N	O	S	0	0	0
			337	228	52	55	2			
6	AE	40	Total	C	N	O	S	0	0	0
			337	228	52	55	2			
6	AG	40	Total	C	N	O	S	0	0	0
			337	228	52	55	2			
6	AJ	40	Total	C	N	O	S	0	0	0
			337	228	52	55	2			
6	AN	40	Total	C	N	O	S	0	0	0
			337	228	52	55	2			
6	AP	40	Total	C	N	O	S	0	0	0
			337	228	52	55	2			
6	AR	40	Total	C	N	O	S	0	0	0
			337	228	52	55	2			
6	AT	40	Total	C	N	O	S	0	0	0
			337	228	52	55	2			
6	AV	40	Total	C	N	O	S	0	0	0
			337	228	52	55	2			

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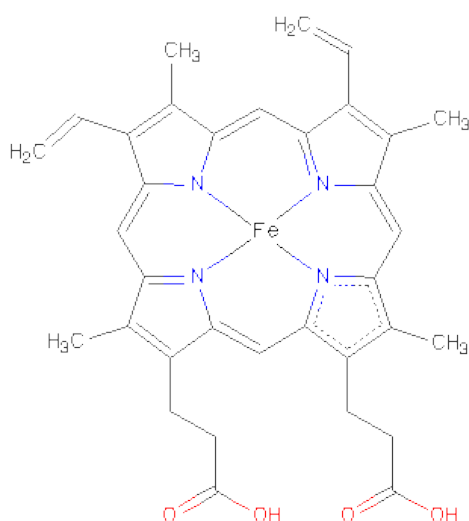
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AX	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	AZ	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	A2	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	A4	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	A6	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	A8	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	A0	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	BB	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	BE	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	BG	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	BJ	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	BN	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	BP	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	BR	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	BT	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	BV	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	BX	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	BZ	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	B2	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	B4	40	Total 337	C 228	N 52	O 55	S 2	0	0	0
6	B6	40	Total 337	C 228	N 52	O 55	S 2	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	B8	40	Total	C	N	O	S	0	0	0
			337	228	52	55	2			
6	B0	40	Total	C	N	O	S	0	0	0
			337	228	52	55	2			

- Molecule 7 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula:  $C_{34}H_{32}FeN_4O_4$ ).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
7	AC	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
7	AC	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
7	AC	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
7	AC	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
7	BC	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
7	BC	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
7	BC	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		

- Molecule 8 is CALCIUM ION (three-letter code: CA) (formula: Ca).

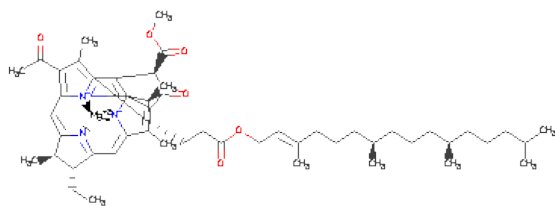
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	BA	1	Total Ca 1 1	0	0
8	AK	1	Total Ca 1 1	0	0
8	B1	1	Total Ca 1 1	0	0
8	BI	1	Total Ca 1 1	0	0
8	AS	1	Total Ca 1 1	0	0
8	B5	1	Total Ca 1 1	0	0
8	B9	1	Total Ca 1 1	0	0
8	BF	1	Total Ca 1 1	0	0
8	AV	1	Total Ca 1 1	0	0
8	AA	1	Total Ca 1 1	0	0
8	BQ	1	Total Ca 1 1	0	0
8	A5	1	Total Ca 1 1	0	0
8	BC	1	Total Ca 1 1	0	0
8	BU	1	Total Ca 1 1	0	0
8	A1	1	Total Ca 1 1	0	0
8	AD	1	Total Ca 1 1	0	0
8	AI	1	Total Ca 1 1	0	0
8	BY	1	Total Ca 1 1	0	0
8	B3	1	Total Ca 1 1	0	0
8	BK	1	Total Ca 1 1	0	0
8	AU	1	Total Ca 1 1	0	0
8	B7	1	Total Ca 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A9	1	Total	Ca	0	0
			1	1		
8	BO	1	Total	Ca	0	0
			1	1		
8	AQ	1	Total	Ca	0	0
			1	1		
8	AC	1	Total	Ca	0	0
			1	1		
8	BS	1	Total	Ca	0	0
			1	1		
8	A7	1	Total	Ca	0	0
			1	1		
8	BD	1	Total	Ca	0	0
			1	1		
8	AO	1	Total	Ca	0	0
			1	1		
8	BW	1	Total	Ca	0	0
			1	1		
8	AY	1	Total	Ca	0	0
			1	1		
8	A3	1	Total	Ca	0	0
			1	1		
8	AF	1	Total	Ca	0	0
			1	1		

- Molecule 9 is BACTERIOCHLOROPHYLL A (three-letter code: BCL) (formula:  $C_{55}H_{74}MgN_4O_6$ ).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
9	AL	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AL	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AM	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AM	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AA	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AB	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AD	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AE	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AF	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AG	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AI	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AJ	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AK	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AN	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AO	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AP	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AQ	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AR	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AS	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AT	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AU	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AV	1	Total 66	C 55	Mg 1	N 4	O 6	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
9	AW	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AX	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AY	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	AZ	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	A1	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	A2	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	A3	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	A3	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	A5	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	A6	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	A7	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	A8	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	A9	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	A0	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BL	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BL	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BM	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BM	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BA	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BB	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BD	1	Total 66	C 55	Mg 1	N 4	O 6	0	0

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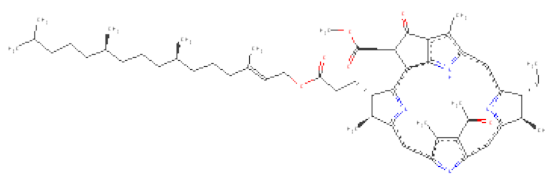
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
9	BE	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BF	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BG	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BI	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BJ	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BK	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BN	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BO	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BP	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BQ	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BQ	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BS	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BT	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BU	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BV	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BW	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BX	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BY	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	BZ	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	B1	1	Total 66	C 55	Mg 1	N 4	O 6	0	0
9	B2	1	Total 66	C 55	Mg 1	N 4	O 6	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
9	B3	1	Total	C	Mg	N	O	0	0
			66	55	1	4	6		
9	B4	1	Total	C	Mg	N	O	0	0
			66	55	1	4	6		
9	B5	1	Total	C	Mg	N	O	0	0
			66	55	1	4	6		
9	B6	1	Total	C	Mg	N	O	0	0
			66	55	1	4	6		
9	B7	1	Total	C	Mg	N	O	0	0
			66	55	1	4	6		
9	B8	1	Total	C	Mg	N	O	0	0
			66	55	1	4	6		
9	B9	1	Total	C	Mg	N	O	0	0
			66	55	1	4	6		
9	B0	1	Total	C	Mg	N	O	0	0
			66	55	1	4	6		

- Molecule 10 is BACTERIOPHEOPHYTIN A (three-letter code: BPH) (formula:  $C_{55}H_{76}N_4O_6$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
10	AL	1	Total	C	N	O	0	0
			65	55	4	6		
10	AM	1	Total	C	N	O	0	0
			65	55	4	6		
10	BL	1	Total	C	N	O	0	0
			65	55	4	6		

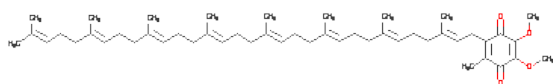
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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
10	BM	1	Total	C	N	O	0	0
			65	55	4	6		

- Molecule 11 is Ubiquinone-8 (three-letter code: UQ8) (formula: C<sub>49</sub>H<sub>74</sub>O<sub>4</sub>).

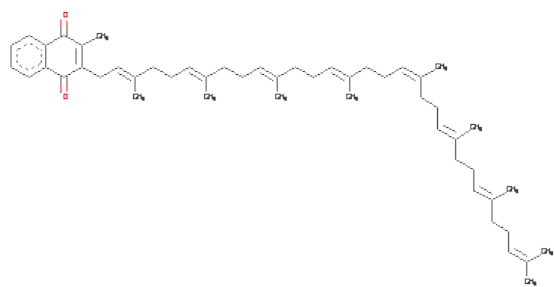


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
11	AL	1	Total	C	O	0	0
			53	49	4		
11	BL	1	Total	C	O	0	0
			53	49	4		

- Molecule 12 is FE (III) ION (three-letter code: FE) (formula: Fe).

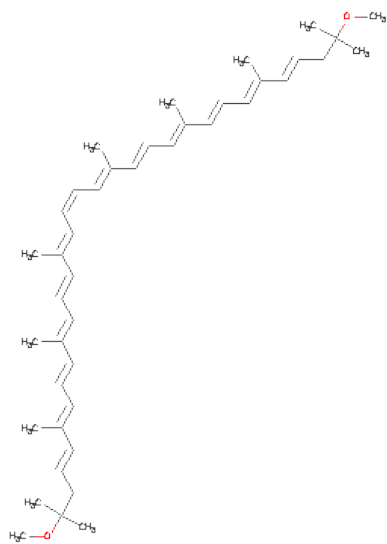
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
12	BM	1	Total	Fe	0	0
			1	1		
12	AM	1	Total	Fe	0	0
			1	1		

- Molecule 13 is MENAQUINONE 8 (three-letter code: MQ8) (formula: C<sub>51</sub>H<sub>72</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
13	AM	1	Total	C	O	0	0
			53	51	2		
13	BM	1	Total	C	O	0	0
			53	51	2		

- Molecule 14 is SPIRILLOXANTHIN (three-letter code: CRT) (formula: C<sub>42</sub>H<sub>60</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
14	AM	1	Total	C	O	0	0
			44	42	2		
14	AA	1	Total	C	O	0	0
			44	42	2		

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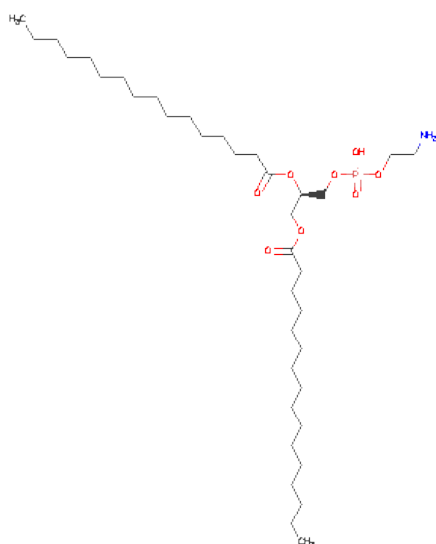
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
14	AB	1	Total	C	O	0	0
			44	42	2		
14	AG	1	Total	C	O	0	0
			44	42	2		
14	AJ	1	Total	C	O	0	0
			44	42	2		
14	AN	1	Total	C	O	0	0
			44	42	2		
14	AP	1	Total	C	O	0	0
			44	42	2		
14	AR	1	Total	C	O	0	0
			44	42	2		
14	AS	1	Total	C	O	0	0
			44	42	2		
14	AT	1	Total	C	O	0	0
			44	42	2		
14	AW	1	Total	C	O	0	0
			44	42	2		
14	AX	1	Total	C	O	0	0
			44	42	2		
14	A1	1	Total	C	O	0	0
			44	42	2		
14	A2	1	Total	C	O	0	0
			44	42	2		
14	A5	1	Total	C	O	0	0
			44	42	2		
14	A7	1	Total	C	O	0	0
			44	42	2		
14	A0	1	Total	C	O	0	0
			44	42	2		
14	BM	1	Total	C	O	0	0
			44	42	2		
14	BA	1	Total	C	O	0	0
			44	42	2		
14	BB	1	Total	C	O	0	0
			44	42	2		
14	BF	1	Total	C	O	0	0
			44	42	2		
14	BG	1	Total	C	O	0	0
			44	42	2		
14	BN	1	Total	C	O	0	0
			44	42	2		

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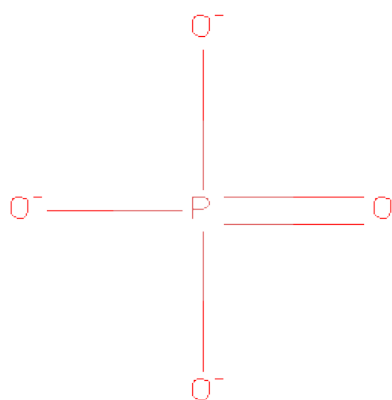
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
14	BO	1	Total	C	O	0	0
			44	42	2		
14	BP	1	Total	C	O	0	0
			44	42	2		
14	BS	1	Total	C	O	0	0
			44	42	2		
14	BU	1	Total	C	O	0	0
			44	42	2		
14	BV	1	Total	C	O	0	0
			44	42	2		
14	BW	1	Total	C	O	0	0
			44	42	2		
14	B1	1	Total	C	O	0	0
			44	42	2		
14	B2	1	Total	C	O	0	0
			44	42	2		
14	B5	1	Total	C	O	0	0
			44	42	2		
14	B7	1	Total	C	O	0	0
			44	42	2		
14	B0	1	Total	C	O	0	0
			44	42	2		

- Molecule 15 is DI-PALMITOYL-3-SN-PHOSPHATIDYLETHANOLAMINE (three-letter code: PEF) (formula:  $C_{37}H_{74}NO_8P$ ).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
15	AM	1	Total	C	N	O	P	0	0
			19	9	1	8	1		
15	AM	1	Total	C	N	O	P	0	0
			14	6	1	6	1		
15	AM	1	Total	C	N	O	P	0	0
			47	37	1	8	1		
15	AH	1	Total	C	N	O	P	0	0
			19	9	1	8	1		
15	AS	1	Total	C	N	O	P	0	0
			47	37	1	8	1		
15	BM	1	Total	C	N	O	P	0	0
			19	9	1	8	1		
15	BQ	1	Total	C	N	O	P	0	0
			47	37	1	8	1		

- Molecule 16 is PHOSPHATE ION (three-letter code: PO4) (formula: O<sub>4</sub>P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
16	AM	1	Total	O	P	0	0
			5	4	1		
16	AH	1	Total	O	P	0	0
			5	4	1		
16	A3	1	Total	O	P	0	0
			5	4	1		
16	BH	1	Total	O	P	0	0
			5	4	1		

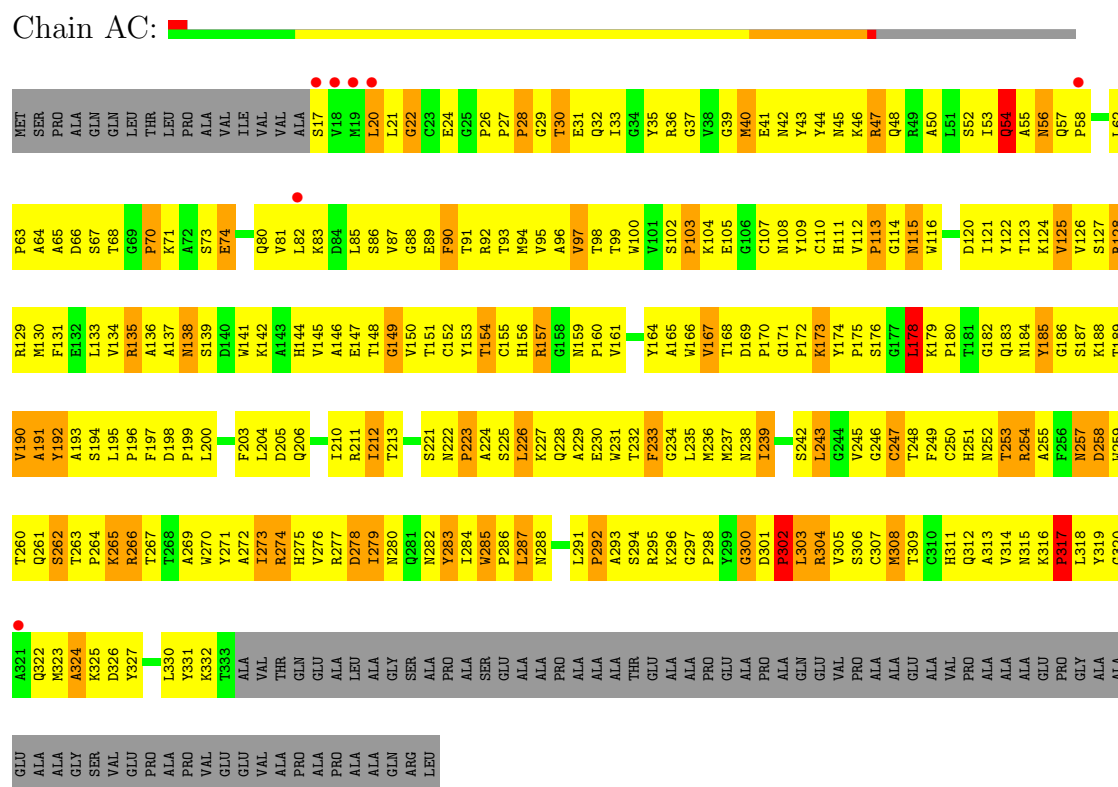
- Molecule 17 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
17	AC	1	Total 1	O 1	0	0
17	AL	3	Total 3	O 3	0	0
17	AM	3	Total 3	O 3	0	0
17	AH	2	Total 2	O 2	0	0
17	AA	1	Total 1	O 1	0	0
17	AI	1	Total 1	O 1	0	0
17	AW	1	Total 1	O 1	0	0
17	BC	1	Total 1	O 1	0	0
17	BL	3	Total 3	O 3	0	0
17	BM	3	Total 3	O 3	0	0
17	BH	1	Total 1	O 1	0	0
17	B1	1	Total 1	O 1	0	0

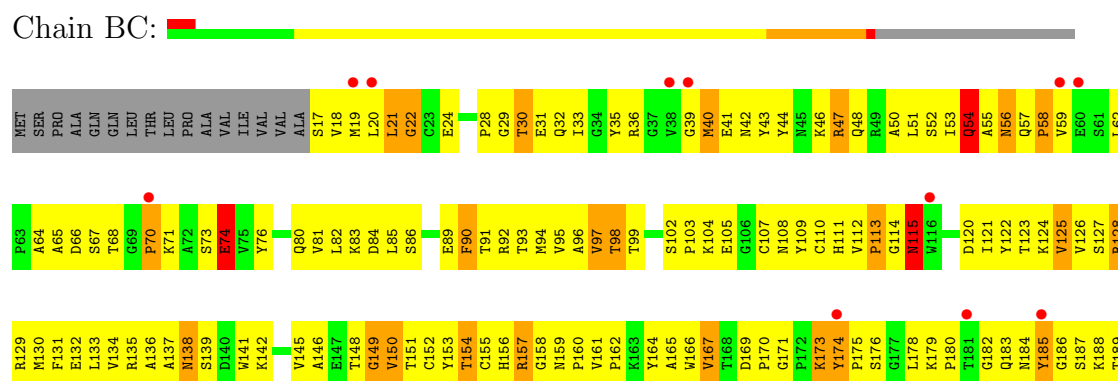
### 3 Residue-property plots

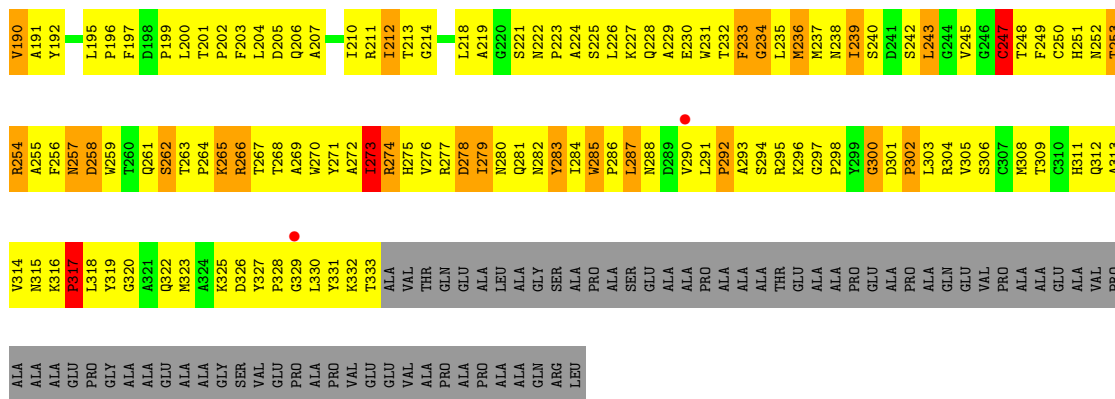
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according 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 dot above a residue indicates a poor fit to the electron density ( $RSRZ > 2$ ). 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: Photosynthetic reaction center cytochrome c subunit



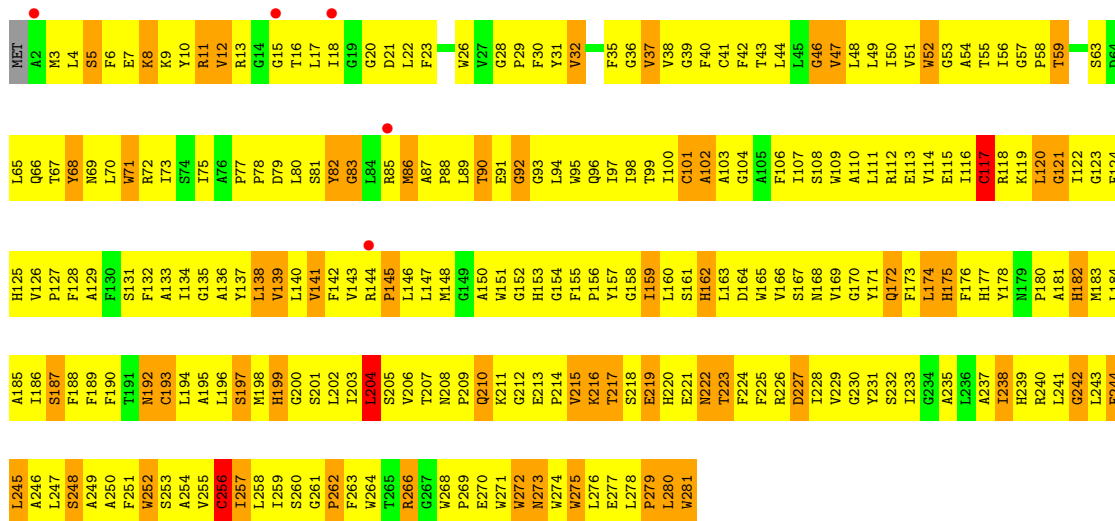
- Molecule 1: Photosynthetic reaction center cytochrome c subunit





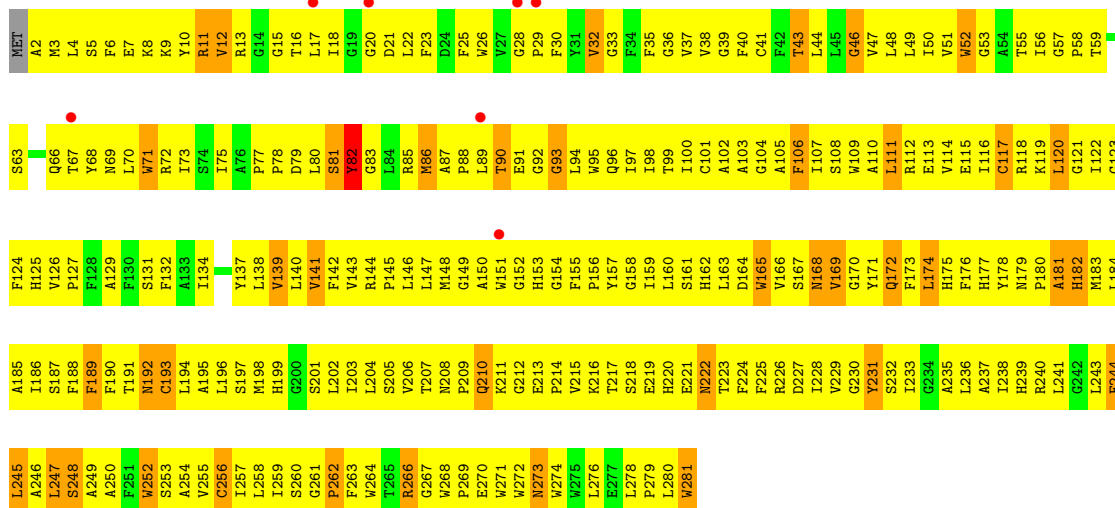
### • Molecule 2: Photosynthetic reaction center L subunit

Chain AL:



### • Molecule 2: Photosynthetic reaction center L subunit

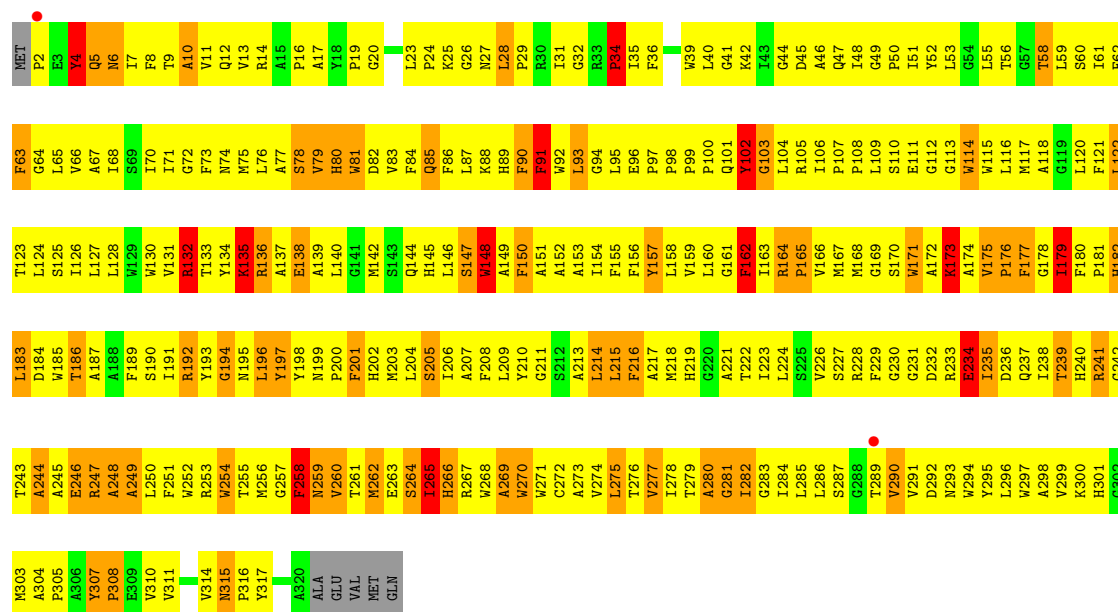
Chain BL:

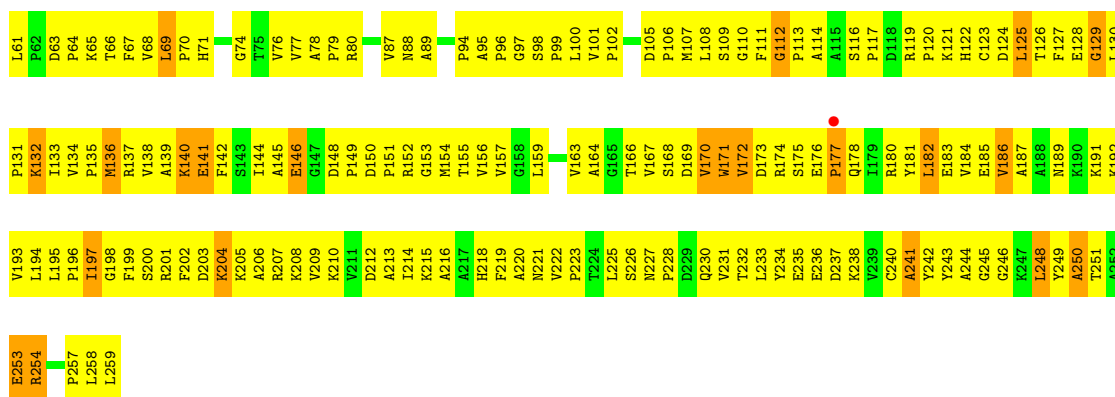




- Molecule 3: Photosynthetic reaction center M subunit

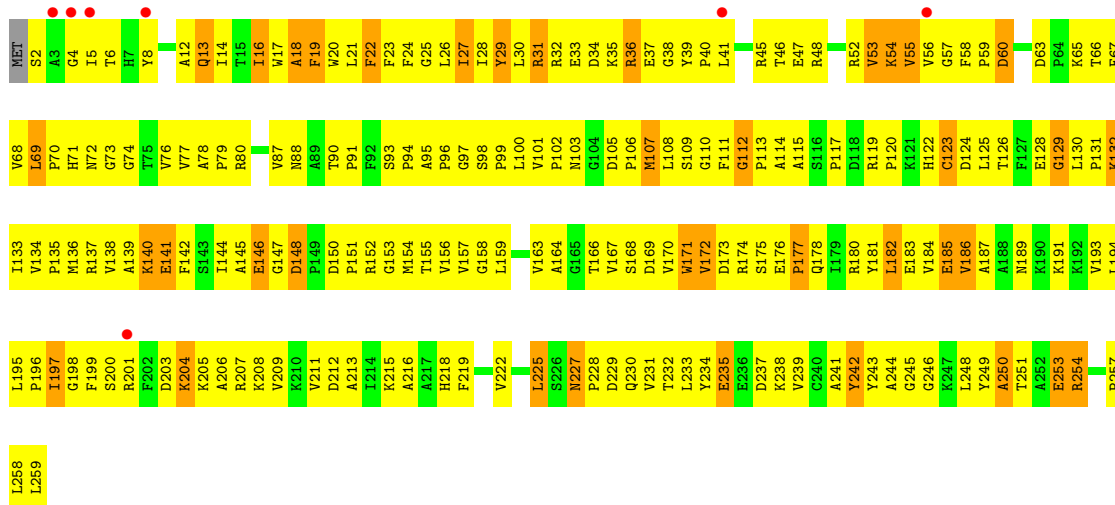
Chain AM:





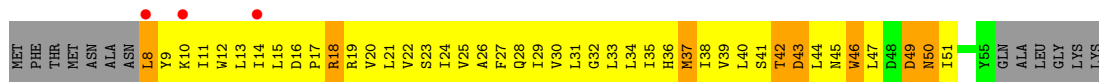
• Molecule 4: Photosynthetic reaction center H subunit

Chain BH:



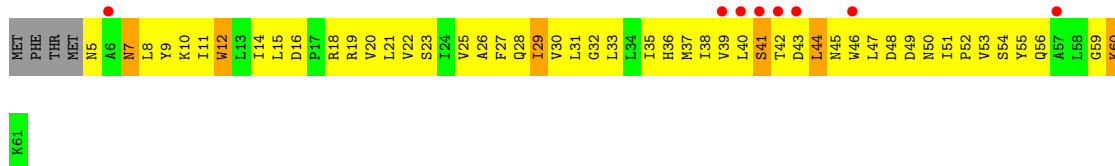
• Molecule 5: LH1 alpha polypeptide

Chain AA:



• Molecule 5: LH1 alpha polypeptide

Chain AD:



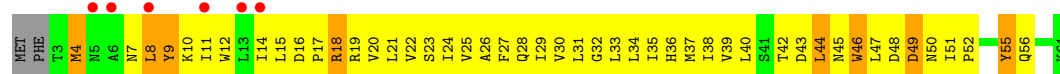
• Molecule 5: LH1 alpha polypeptide

Chain AF:



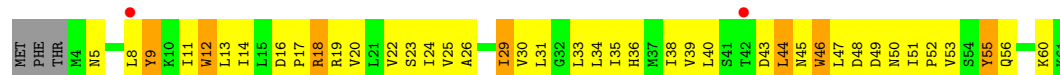
- Molecule 5: LH1 alpha polypeptide

Chain AI:



- Molecule 5: LH1 alpha polypeptide

Chain AK:



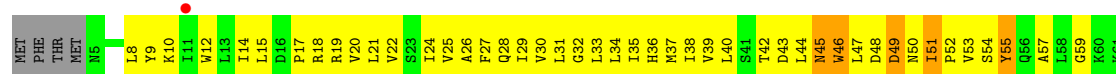
- Molecule 5: LH1 alpha polypeptide

Chain AO:



- Molecule 5: LH1 alpha polypeptide

Chain AQ:



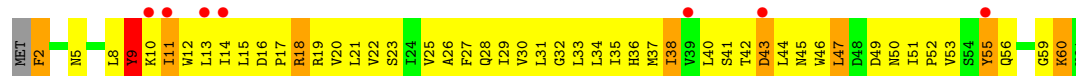
- Molecule 5: LH1 alpha polypeptide

Chain AS:



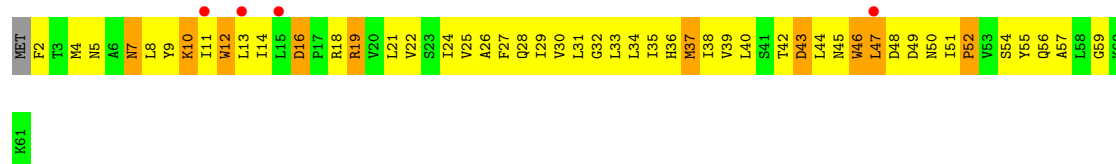
- Molecule 5: LH1 alpha polypeptide

Chain AU:



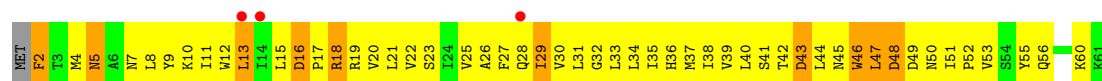
- Molecule 5: LH1 alpha polypeptide

Chain AW:



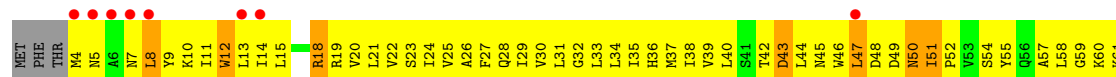
- Molecule 5: LH1 alpha polypeptide

Chain AY: 



- Molecule 5: LH1 alpha polypeptide

Chain A1: 



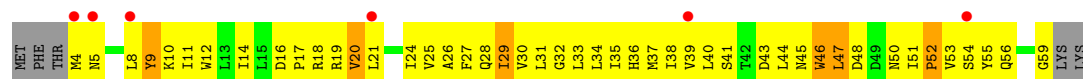
- Molecule 5: LH1 alpha polypeptide

Chain A3: 



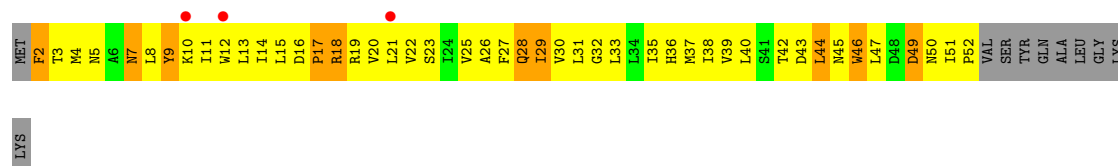
- Molecule 5: LH1 alpha polypeptide

Chain A5: 



- Molecule 5: LH1 alpha polypeptide

Chain A7: 



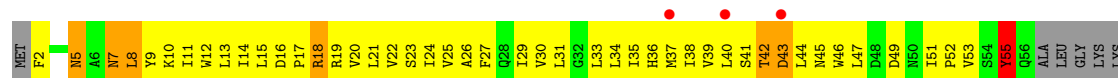
- Molecule 5: LH1 alpha polypeptide

Chain A9: 



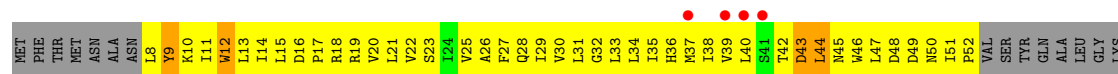
- Molecule 5: LH1 alpha polypeptide

Chain BA: 



- Molecule 5: LH1 alpha polypeptide

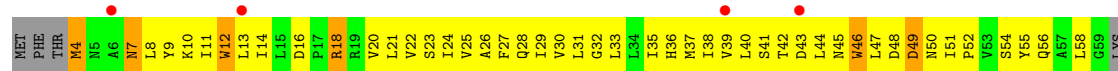
Chain BD: 



LYS

- Molecule 5: LH1 alpha polypeptide

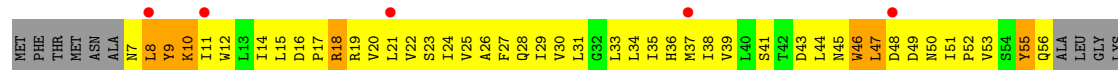
Chain BF:



LYS

- Molecule 5: LH1 alpha polypeptide

Chain BI:



LYS

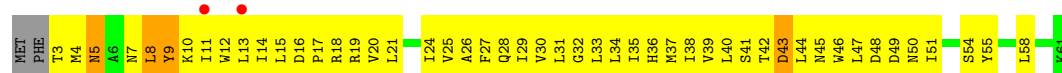
- Molecule 5: LH1 alpha polypeptide

Chain BK:



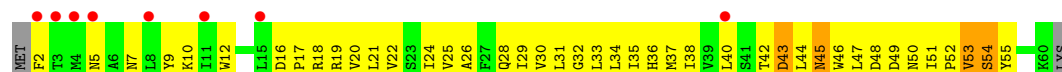
- Molecule 5: LH1 alpha polypeptide

Chain BO:



- Molecule 5: LH1 alpha polypeptide

Chain BQ:



- Molecule 5: LH1 alpha polypeptide

Chain BS:



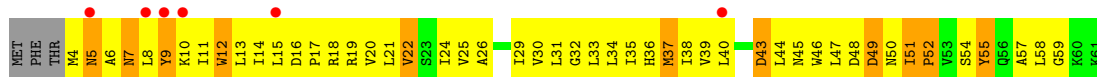
- Molecule 5: LH1 alpha polypeptide

Chain BU: 



- Molecule 5: LH1 alpha polypeptide

Chain BW: 



- Molecule 5: LH1 alpha polypeptide

Chain BY: 



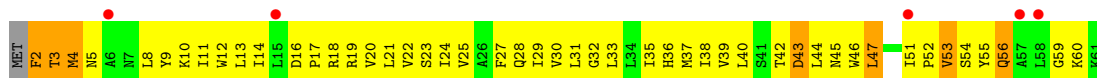
- Molecule 5: LH1 alpha polypeptide

Chain B1: 



- Molecule 5: LH1 alpha polypeptide

Chain B3: 



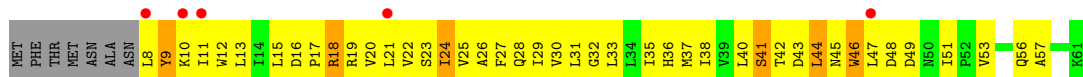
- Molecule 5: LH1 alpha polypeptide

Chain B5: 



- Molecule 5: LH1 alpha polypeptide

Chain B7: 



- Molecule 5: LH1 alpha polypeptide

Chain B9: 



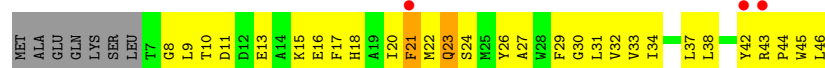
- Molecule 6: LH1 beta polypeptide

Chain AB:



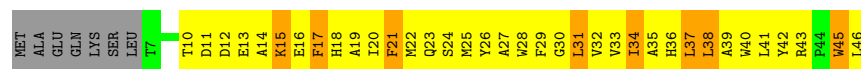
- Molecule 6: LH1 beta polypeptide

Chain AE:



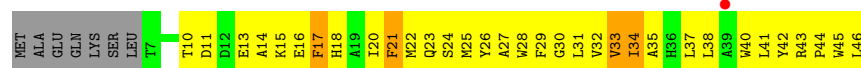
- Molecule 6: LH1 beta polypeptide

Chain AG:



- Molecule 6: LH1 beta polypeptide

Chain AJ:



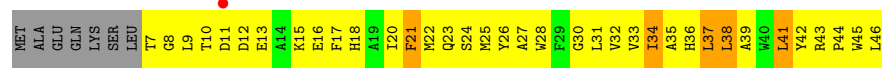
- Molecule 6: LH1 beta polypeptide

Chain AN:



- Molecule 6: LH1 beta polypeptide

Chain AP:



- Molecule 6: LH1 beta polypeptide

Chain AR:



- Molecule 6: LH1 beta polypeptide

Chain AT:



- Molecule 6: LH1 beta polypeptide

Chain AV:



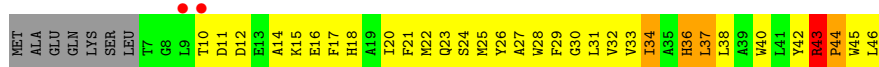
- Molecule 6: LH1 beta polypeptide

Chain AX:



- Molecule 6: LH1 beta polypeptide

Chain AZ:



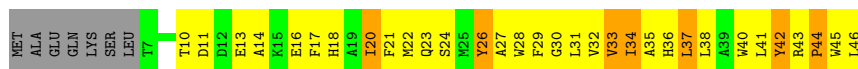
- Molecule 6: LH1 beta polypeptide

Chain A2:



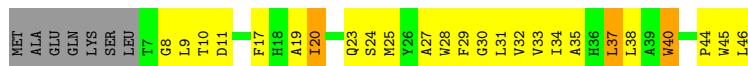
- Molecule 6: LH1 beta polypeptide

Chain A4:



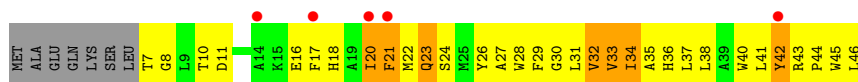
- Molecule 6: LH1 beta polypeptide

Chain A6:



- Molecule 6: LH1 beta polypeptide

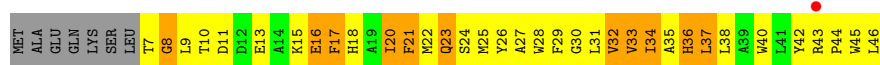
Chain A8:



- Molecule 6: LH1 beta polypeptide

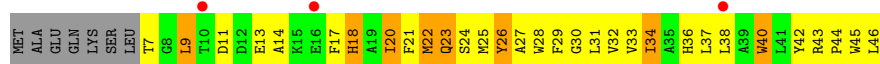
Chain A0:





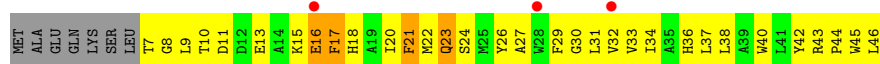
- Molecule 6: LH1 beta polypeptide

Chain BB:



- Molecule 6: LH1 beta polypeptide

Chain BE:



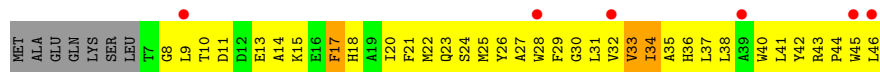
- Molecule 6: LH1 beta polypeptide

Chain BG:



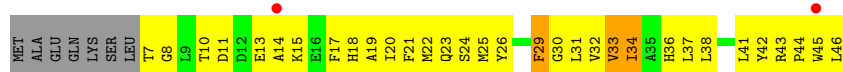
- Molecule 6: LH1 beta polypeptide

Chain BJ:



- Molecule 6: LH1 beta polypeptide

Chain BN:



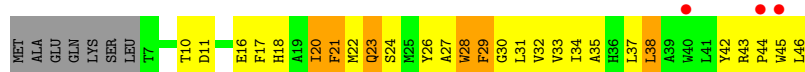
- Molecule 6: LH1 beta polypeptide

Chain BP:



- Molecule 6: LH1 beta polypeptide

Chain BR:



- Molecule 6: LH1 beta polypeptide

Chain BT:



- Molecule 6: LH1 beta polypeptide

Chain BV:



- Molecule 6: LH1 beta polypeptide

Chain BX:



- Molecule 6: LH1 beta polypeptide

Chain BZ:



- Molecule 6: LH1 beta polypeptide

Chain B2:



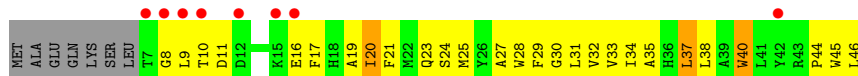
- Molecule 6: LH1 beta polypeptide

Chain B4:



- Molecule 6: LH1 beta polypeptide

Chain B6:



- Molecule 6: LH1 beta polypeptide

Chain B8:



- Molecule 6: LH1 beta polypeptide

Chain B0:

MET	ALA	GLU	GLN	LYS	SER	LEU	T7	G8	L9	T10	D11	D12	E13	A14	K15	E16	F17	H18	A19	I20	F21	N22	Q23	S24	M25	Y26	A27	W28	F29	G30	L31	V32	V33	I34	A35	H36	L37	L38	W40	L41	Y42	R43	P44	W45	L46
-----	-----	-----	-----	-----	-----	-----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	167.16Å 145.43Å 210.53Å 90.00° 108.50° 90.00°	Depositor
Resolution (Å)	43.79 – 3.01 43.79 – 3.01	Depositor EDS
% Data completeness (in resolution range)	(Not available) (43.79-3.01) 69.3 (43.79-3.01)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.09	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.67 (at 3.01Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.1_1168)	Depositor
R, $R_{free}$	0.335 , 0.356 0.372 , 0.372	Depositor DCC
$R_{free}$ test set	8241 reflections (5.17%)	DCC
Wilson B-factor (Å <sup>2</sup> )	55.8	Xtriage
Anisotropy	0.472	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.20 , 56.1	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle  L  \rangle = 0.35$ , $\langle L^2 \rangle = 0.18$	Xtriage
Outliers	8 of 167610 reflections (0.005%)	Xtriage
$F_o, F_c$ correlation	0.81	EDS
Total number of atoms	50862	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	134.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.99% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: BCL, CRT, BPH, CA, UQ8, FE, MQ8, HEM, PEF, PO4

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	AC	0.61	0/2528	0.81	2/3451 (0.1%)
1	BC	0.59	1/2528 (0.0%)	0.79	1/3451 (0.0%)
2	AL	0.39	0/2318	0.63	0/3167
2	BL	0.36	0/2318	0.60	0/3167
3	AM	0.37	0/2651	0.63	0/3628
3	BM	0.36	0/2651	0.61	0/3628
4	AH	0.34	0/2037	0.57	0/2776
4	BH	0.33	0/2037	0.58	0/2776
5	A1	0.38	0/464	0.70	0/634
5	A3	0.30	0/456	0.64	0/624
5	A5	0.34	0/453	0.66	0/620
5	A7	0.30	0/426	0.61	0/583
5	A9	0.33	0/483	0.67	0/660
5	AA	0.31	0/401	0.57	0/550
5	AD	0.30	0/456	0.58	0/624
5	AF	0.30	0/471	0.62	0/644
5	AI	0.39	0/471	0.67	0/644
5	AK	0.28	0/464	0.57	0/634
5	AO	0.45	0/471	0.80	0/644
5	AQ	0.30	0/456	0.62	0/624
5	AS	0.32	0/471	0.65	0/644
5	AU	0.34	0/483	0.64	0/660
5	AW	0.34	0/483	0.61	0/660
5	AY	0.34	0/483	0.70	0/660
5	B1	0.32	0/435	0.58	0/595
5	B3	0.33	0/483	0.60	0/660
5	B5	0.32	0/426	0.68	0/583
5	B7	0.31	0/435	0.57	0/595
5	B9	0.35	0/426	0.65	0/583
5	BA	0.31	0/458	0.61	0/627
5	BD	0.41	0/378	0.67	0/518
5	BF	0.37	0/453	0.64	0/620

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
5	BI	0.33	0/418	0.61	0/573
5	BK	0.29	0/483	0.56	0/660
5	BO	0.37	0/471	0.71	0/644
5	BQ	0.29	0/477	0.58	0/653
5	BS	0.29	0/471	0.58	0/644
5	BU	0.42	1/472 (0.2%)	0.62	1/646 (0.2%)
5	BW	0.34	0/464	0.60	0/634
5	BY	0.31	0/435	0.58	0/595
6	A0	0.46	0/350	0.58	0/476
6	A2	0.33	0/350	0.52	0/476
6	A4	0.43	0/350	0.61	0/476
6	A6	0.34	0/350	0.57	0/476
6	A8	0.47	0/350	0.61	0/476
6	AB	0.40	0/350	0.53	0/476
6	AE	0.40	0/350	0.51	0/476
6	AG	0.46	0/350	0.59	0/476
6	AJ	0.45	0/350	0.57	0/476
6	AN	0.43	0/350	0.54	0/476
6	AP	0.41	0/350	0.56	0/476
6	AR	0.37	0/350	0.53	0/476
6	AT	0.35	0/350	0.52	0/476
6	AV	0.40	0/350	0.65	0/476
6	AX	0.39	0/350	0.56	0/476
6	AZ	0.52	1/350 (0.3%)	0.68	1/476 (0.2%)
6	B0	0.44	0/350	0.62	0/476
6	B2	0.40	0/350	0.59	0/476
6	B4	0.42	0/350	0.64	0/476
6	B6	0.33	0/350	0.55	0/476
6	B8	0.47	0/350	0.61	0/476
6	BB	0.43	0/350	0.59	0/476
6	BE	0.37	0/350	0.56	0/476
6	BG	0.49	0/350	0.76	1/476 (0.2%)
6	BJ	0.42	0/350	0.57	0/476
6	BN	0.45	0/350	0.60	0/476
6	BP	0.42	0/350	0.57	0/476
6	BR	0.38	0/350	0.57	0/476
6	BT	0.42	0/350	0.63	0/476
6	BV	0.37	0/350	0.71	0/476
6	BX	0.36	0/350	0.60	0/476
6	BZ	0.40	0/350	0.53	0/476
All	All	0.40	3/44845 (0.0%)	0.64	6/61215 (0.0%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	BU	17	PRO	N-CD	5.25	1.55	1.47
6	AZ	44	PRO	N-CD	5.16	1.55	1.47
1	BC	247	CYS	CB-SG	-5.11	1.73	1.81

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	AZ	43	ARG	C-N-CD	5.83	140.64	128.40
1	AC	178	LEU	N-CA-C	5.77	126.58	111.00
5	BU	16	ASP	C-N-CD	5.61	140.17	128.40
6	BG	21	PHE	CB-CG-CD2	-5.49	116.95	120.80
1	BC	186	GLY	N-CA-C	-5.10	100.35	113.10
1	AC	226	LEU	CA-CB-CG	5.02	126.84	115.30

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AC	2458	0	2377	475	0
1	BC	2458	0	2377	488	0
2	AL	2231	0	2192	644	0
2	BL	2231	0	2192	563	0
3	AM	2551	0	2526	741	0
3	BM	2551	0	2526	662	0
4	AH	1982	0	1981	399	0
4	BH	1982	0	1981	373	0
5	A1	455	0	460	165	0
5	A3	447	0	451	135	0
5	A5	444	0	456	138	0
5	A7	417	0	441	159	0
5	A9	473	0	476	126	0
5	AA	392	0	412	138	0
5	AD	447	0	451	124	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	AF	462	0	467	153	0
5	AI	462	0	467	147	0
5	AK	455	0	460	91	0
5	AO	462	0	467	153	0
5	AQ	447	0	451	118	0
5	AS	462	0	467	187	0
5	AU	473	0	476	150	0
5	AW	473	0	476	184	0
5	AY	473	0	476	165	0
5	B1	426	0	434	137	0
5	B3	473	0	476	134	0
5	B5	417	0	441	92	0
5	B7	426	0	434	133	0
5	B9	417	0	441	137	0
5	BA	448	0	462	154	0
5	BD	370	0	399	134	0
5	BF	444	0	456	146	0
5	BI	409	0	426	108	0
5	BK	473	0	476	102	0
5	BO	462	0	467	145	0
5	BQ	467	0	474	121	0
5	BS	462	0	467	111	0
5	BU	462	0	472	174	0
5	BW	455	0	460	159	0
5	BY	426	0	434	149	0
6	A0	337	0	323	111	0
6	A2	337	0	323	106	0
6	A4	337	0	323	82	0
6	A6	337	0	323	57	0
6	A8	337	0	323	105	0
6	AB	337	0	321	89	0
6	AE	337	0	323	69	0
6	AG	337	0	323	89	0
6	AJ	337	0	323	94	0
6	AN	337	0	323	86	0
6	AP	337	0	323	105	0
6	AR	337	0	323	73	0
6	AT	337	0	323	79	0
6	AV	337	0	323	98	0
6	AX	337	0	323	82	0
6	AZ	337	0	323	99	0
6	B0	337	0	323	123	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	B2	337	0	323	132	0
6	B4	337	0	323	70	0
6	B6	337	0	323	51	0
6	B8	337	0	323	71	0
6	BB	337	0	323	97	0
6	BE	337	0	323	72	0
6	BG	337	0	323	78	0
6	BJ	337	0	323	91	0
6	BN	337	0	323	66	0
6	BP	337	0	323	91	0
6	BR	337	0	323	68	0
6	BT	337	0	323	64	0
6	BV	337	0	323	107	0
6	BX	337	0	323	71	0
6	BZ	337	0	323	80	0
7	AC	172	0	120	35	0
7	BC	172	0	120	33	0
8	A1	1	0	0	0	0
8	A3	1	0	0	0	0
8	A5	1	0	0	0	0
8	A7	1	0	0	0	0
8	A9	1	0	0	0	0
8	AA	1	0	0	0	0
8	AC	1	0	0	0	0
8	AD	1	0	0	0	0
8	AF	1	0	0	0	0
8	AI	1	0	0	0	0
8	AK	1	0	0	0	0
8	AO	1	0	0	0	0
8	AQ	1	0	0	0	0
8	AS	1	0	0	0	0
8	AU	1	0	0	0	0
8	AV	1	0	0	0	0
8	AY	1	0	0	0	0
8	B1	1	0	0	0	0
8	B3	1	0	0	0	0
8	B5	1	0	0	0	0
8	B7	1	0	0	0	0
8	B9	1	0	0	0	0
8	BA	1	0	0	0	0
8	BC	1	0	0	0	0
8	BD	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	BF	1	0	0	0	0
8	BI	1	0	0	0	0
8	BK	1	0	0	0	0
8	BO	1	0	0	0	0
8	BQ	1	0	0	0	0
8	BS	1	0	0	0	0
8	BU	1	0	0	0	0
8	BW	1	0	0	0	0
8	BY	1	0	0	0	0
9	A0	66	0	72	71	0
9	A1	66	0	74	55	0
9	A2	66	0	74	31	0
9	A3	132	0	148	69	0
9	A5	66	0	74	40	0
9	A6	66	0	74	31	0
9	A7	66	0	74	51	0
9	A8	66	0	74	46	0
9	A9	66	0	74	35	0
9	AA	66	0	74	41	0
9	AB	66	0	74	33	0
9	AD	66	0	74	29	0
9	AE	66	0	74	32	0
9	AF	66	0	74	38	0
9	AG	66	0	74	37	0
9	AI	66	0	74	41	0
9	AJ	66	0	74	44	0
9	AK	66	0	74	67	0
9	AL	132	0	148	58	0
9	AM	132	0	148	61	0
9	AN	66	0	74	57	0
9	AO	66	0	74	50	0
9	AP	66	0	74	41	0
9	AQ	66	0	74	26	0
9	AR	66	0	74	34	0
9	AS	66	0	74	32	0
9	AT	66	0	74	25	0
9	AU	66	0	73	46	0
9	AV	66	0	74	28	0
9	AW	66	0	72	40	0
9	AX	66	0	74	36	0
9	AY	66	0	74	47	0
9	AZ	66	0	72	41	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	B0	66	0	74	54	0
9	B1	66	0	74	40	0
9	B2	66	0	74	45	0
9	B3	66	0	74	51	0
9	B4	66	0	74	24	0
9	B5	66	0	74	25	0
9	B6	66	0	74	26	0
9	B7	66	0	74	41	0
9	B8	66	0	74	37	0
9	B9	66	0	74	35	0
9	BA	66	0	74	37	0
9	BB	66	0	74	51	0
9	BD	66	0	74	38	0
9	BE	66	0	74	48	0
9	BF	66	0	74	41	0
9	BG	66	0	74	44	0
9	BI	66	0	74	50	0
9	BJ	66	0	74	30	0
9	BK	66	0	74	32	0
9	BL	132	0	148	51	0
9	BM	132	0	148	54	0
9	BN	66	0	74	31	0
9	BO	66	0	74	50	0
9	BP	66	0	74	40	0
9	BQ	132	0	148	53	0
9	BS	66	0	74	25	0
9	BT	66	0	74	19	0
9	BU	66	0	74	41	0
9	BV	66	0	74	25	0
9	BW	66	0	74	44	0
9	BX	66	0	74	37	0
9	BY	66	0	74	37	0
9	BZ	66	0	74	30	0
10	AL	65	0	76	17	0
10	AM	65	0	76	14	0
10	BL	65	0	76	11	0
10	BM	65	0	76	9	0
11	AL	53	0	74	8	0
11	BL	53	0	74	12	0
12	AM	1	0	0	0	0
12	BM	1	0	0	0	0
13	AM	53	0	72	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
13	BM	53	0	72	9	0
14	A0	44	0	60	27	0
14	A1	44	0	60	29	0
14	A2	44	0	60	51	0
14	A5	44	0	60	29	0
14	A7	44	0	60	45	0
14	AA	44	0	60	24	0
14	AB	44	0	60	45	0
14	AG	44	0	60	11	0
14	AJ	44	0	60	21	0
14	AM	44	0	60	13	0
14	AN	44	0	60	14	0
14	AP	44	0	60	24	0
14	AR	44	0	60	20	0
14	AS	44	0	60	77	0
14	AT	44	0	60	17	0
14	AW	44	0	60	32	0
14	AX	44	0	60	46	0
14	B0	44	0	60	42	0
14	B1	44	0	60	40	0
14	B2	44	0	60	75	0
14	B5	44	0	60	21	0
14	B7	44	0	60	39	0
14	BA	44	0	60	26	0
14	BB	44	0	60	27	0
14	BF	44	0	60	19	0
14	BG	44	0	60	14	0
14	BM	44	0	60	8	0
14	BN	44	0	60	15	0
14	BO	44	0	60	14	0
14	BP	44	0	60	28	0
14	BS	44	0	60	11	0
14	BU	44	0	60	61	0
14	BV	44	0	60	59	0
14	BW	44	0	60	21	0
15	AH	19	0	11	8	0
15	AM	80	0	92	23	0
15	AS	47	0	73	37	0
15	BM	19	0	11	2	0
15	BQ	47	0	73	12	0
16	A3	5	0	0	0	0
16	AH	5	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	AM	5	0	0	0	0
16	BH	5	0	0	1	0
17	AA	1	0	0	0	0
17	AC	1	0	0	0	0
17	AH	2	0	0	0	0
17	AI	1	0	0	0	0
17	AL	3	0	0	2	0
17	AM	3	0	0	2	0
17	AW	1	0	0	1	0
17	B1	1	0	0	0	0
17	BC	1	0	0	0	0
17	BH	1	0	0	0	0
17	BL	3	0	0	3	0
17	BM	3	0	0	0	0
All	All	50862	0	51516	10984	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 107.

All (10984) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:A7:102:CRT:C22	14:A7:102:CRT:C21	1.82	1.56
14:AS:104:CRT:C9	6:AV:20:ILE:HD12	1.38	1.54
5:AS:30:VAL:HG22	15:AS:101:PEF:C41	1.47	1.44
5:AS:30:VAL:CG2	15:AS:101:PEF:H412	1.46	1.43
9:AW:101:BCL:O2A	9:AW:101:BCL:C1	1.65	1.42
5:BU:11:ILE:HG23	14:BU:103:CRT:C8	1.47	1.41
14:BV:102:CRT:H393	5:BW:36:HIS:CB	1.52	1.39
5:B1:13:LEU:HD12	14:B1:103:CRT:C2	1.53	1.38
14:AB:102:CRT:C2	5:A9:13:LEU:HD12	1.51	1.37
14:AB:102:CRT:C3	5:A9:10:LYS:HB3	1.55	1.34
5:BU:11:ILE:CG2	14:BU:103:CRT:H83	1.57	1.34
9:A7:103:BCL:C1	9:A7:103:BCL:O2A	1.75	1.33
5:A5:25:VAL:HG11	9:A5:102:BCL:C19	1.60	1.32
9:A0:102:BCL:C1	9:A0:102:BCL:O2A	1.76	1.31
5:BU:14:ILE:CG1	14:BU:103:CRT:H33	1.59	1.30
6:B2:21:PHE:CE1	14:B2:102:CRT:H16	1.66	1.30
5:BU:10:LYS:O	14:BU:103:CRT:H23	1.28	1.30
9:AX:101:BCL:C1	9:AX:101:BCL:O2A	1.77	1.29
9:A6:101:BCL:C1	9:A6:101:BCL:O2A	1.79	1.29
6:AP:38:LEU:O	6:AP:41:LEU:HD23	1.32	1.29
5:BU:14:ILE:HG13	14:BU:103:CRT:C3	1.63	1.28

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:B1:13:LEU:CD1	14:B1:103:CRT:H23	1.63	1.26
5:BQ:36:HIS:CE1	9:BQ:104:BCL:HMD1	1.68	1.26
14:AB:102:CRT:H33	5:A9:10:LYS:CB	1.68	1.24
14:BV:102:CRT:C39	5:BW:36:HIS:HB3	1.65	1.24
14:A2:102:CRT:C2M	5:A3:40:LEU:HD11	1.64	1.24
6:BZ:46:LEU:HD22	6:B2:42:TYR:OH	1.34	1.24
5:BA:36:HIS:CB	14:B0:101:CRT:H391	1.66	1.23
6:B8:27:ALA:O	6:B8:31:LEU:HG	1.35	1.23
6:BV:21:PHE:CD1	14:BV:102:CRT:H14	1.74	1.23
5:AS:30:VAL:HG21	15:AS:101:PEF:C39	1.68	1.22
5:BO:43:ASP:HA	5:BQ:48:ASP:CB	1.67	1.22
5:B1:11:ILE:HA	14:B1:103:CRT:C8	1.69	1.22
14:BU:103:CRT:H2M1	5:BY:37:MET:N	1.53	1.21
6:A8:27:ALA:O	6:A8:31:LEU:HG	1.35	1.20
5:A7:36:HIS:CB	14:A7:102:CRT:H2M3	1.71	1.20
9:AK:102:BCL:C1D	9:AN:101:BCL:HMD2	1.70	1.20
9:A1:102:BCL:O2A	9:A1:102:BCL:C1	1.89	1.19
6:AV:27:ALA:O	6:AV:31:LEU:HG	1.42	1.19
5:AF:28:GLN:HB3	9:AF:102:BCL:C1	1.74	1.18
6:B2:21:PHE:CD1	14:B2:102:CRT:H14	1.78	1.18
6:A0:45:TRP:HE1	9:A0:102:BCL:C19	1.56	1.17
6:B2:17:PHE:HB2	14:B2:102:CRT:H41	1.24	1.17
9:A0:102:BCL:HBB2	9:A0:102:BCL:H162	1.25	1.17
5:A1:8:LEU:HD23	5:A1:9:TYR:H	1.08	1.16
9:B8:101:BCL:HMA1	9:B9:102:BCL:HMA1	1.24	1.16
5:A5:25:VAL:HG11	9:A5:102:BCL:H191	1.17	1.16
6:B2:29:PHE:CE1	9:B2:101:BCL:H11	1.79	1.16
6:A2:17:PHE:CD1	14:A2:102:CRT:H6	1.81	1.15
5:B3:43:ASP:HB2	5:B5:47:LEU:HD13	1.19	1.15
14:AS:104:CRT:C18	9:AU:102:BCL:H92	1.76	1.15
2:AL:89:LEU:HA	2:AL:94:LEU:H	1.09	1.15
14:B7:102:CRT:C34	9:B7:103:BCL:HBA1	1.75	1.15
14:BP:102:CRT:H342	9:BQ:103:BCL:HBA1	1.17	1.15
9:BW:102:BCL:C1D	9:BX:101:BCL:HMD2	1.75	1.15
6:AZ:46:LEU:CB	5:A1:52:PRO:HD3	1.76	1.15
2:AL:266:ARG:HB2	2:AL:266:ARG:HH11	1.09	1.15
6:AG:32:VAL:HG11	9:AG:101:BCL:HBA2	1.24	1.15
6:B0:17:PHE:HB2	14:B0:101:CRT:H6	1.26	1.14
14:BV:102:CRT:H393	5:BW:36:HIS:HB2	1.25	1.14
3:AM:241:ARG:O	4:AH:119:ARG:HD3	1.46	1.14
14:AP:102:CRT:H342	9:AQ:102:BCL:HBA1	1.20	1.14
5:AI:19:ARG:O	5:AI:23:SER:HB3	1.47	1.14

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AP:32:VAL:HG11	9:AP:101:BCL:HBA2	1.15	1.14
5:A3:10:LYS:HB3	14:A7:102:CRT:H22A	1.29	1.14
14:AJ:102:CRT:H342	9:AK:102:BCL:HBA1	1.26	1.14
6:B2:21:PHE:HD1	14:B2:102:CRT:C14	1.59	1.14
9:B8:101:BCL:HMC3	9:B9:102:BCL:HBB1	1.25	1.14
6:B6:32:VAL:HG21	9:B6:101:BCL:HBA2	1.15	1.14
5:A7:37:MET:H	14:A7:102:CRT:H2M1	1.13	1.13
6:AV:7:THR:HG22	14:AX:102:CRT:H1M1	1.28	1.13
14:A5:103:CRT:H293	9:A9:102:BCL:H42	1.25	1.13
5:BA:36:HIS:HB2	14:B0:101:CRT:C39	1.79	1.13
5:BU:43:ASP:HA	5:BW:47:LEU:O	1.49	1.13
6:AR:46:LEU:HB3	6:AT:42:TYR:CZ	1.84	1.12
9:BD:102:BCL:C1D	9:BE:101:BCL:HMD2	1.77	1.12
9:A1:102:BCL:C1D	9:A2:101:BCL:HMD2	1.78	1.12
5:AO:8:LEU:O	5:AO:11:ILE:HG13	1.48	1.12
6:A0:17:PHE:HD1	6:A0:18:HIS:N	1.47	1.12
6:AT:27:ALA:O	6:AT:31:LEU:HG	1.50	1.12
6:B2:13:GLU:O	14:B2:102:CRT:H32A	1.48	1.12
4:BH:6:THR:HB	5:BF:41:SER:HB3	1.25	1.12
5:AS:30:VAL:HG21	15:AS:101:PEF:H391	1.28	1.11
5:AW:9:TYR:HA	6:AX:18:HIS:ND1	1.63	1.11
14:A2:102:CRT:H2M1	5:A3:40:LEU:HD11	1.22	1.11
5:BS:36:HIS:CE1	9:BT:101:BCL:HMD1	1.85	1.11
5:A5:4:MET:HG2	6:A8:24:SER:HA	1.18	1.11
6:AG:21:PHE:HD1	6:AG:22:MET:N	1.47	1.11
6:AZ:46:LEU:HB2	5:A1:52:PRO:HD3	1.22	1.11
5:BA:36:HIS:CB	14:B0:101:CRT:C39	2.27	1.11
5:A9:2:PHE:N	5:A9:5:ASN:HD22	1.46	1.11
5:AF:44:LEU:HB2	6:AG:43:ARG:HH11	1.16	1.11
14:BG:102:CRT:H342	9:BI:102:BCL:HBA1	1.29	1.11
14:AS:104:CRT:C9	6:AV:20:ILE:CD1	2.28	1.11
6:B0:17:PHE:CD1	14:B0:101:CRT:H9	1.85	1.10
5:BF:4:MET:HG2	6:BJ:23:GLN:HG3	1.11	1.10
4:BH:5:ILE:HG23	4:BH:6:THR:H	1.05	1.10
6:A6:44:PRO:HG2	5:A7:52:PRO:HG2	1.26	1.10
5:B3:11:ILE:HG12	14:B7:102:CRT:H81	1.26	1.10
4:AH:136:MET:HA	4:AH:139:ALA:HB3	1.31	1.10
5:AI:9:TYR:HA	6:AJ:18:HIS:CE1	1.86	1.10
6:B2:20:ILE:HG21	14:B2:102:CRT:C7	1.80	1.10
14:B2:102:CRT:H2M1	5:B3:36:HIS:HB3	1.31	1.10
6:B2:13:GLU:HB3	14:B2:102:CRT:H33	1.32	1.10
5:BW:26:ALA:O	5:BW:29:ILE:HG22	1.50	1.10

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AR:101:BCL:HMA1	9:AS:103:BCL:HMA1	1.24	1.10
14:B2:102:CRT:C2M	5:B3:36:HIS:HB3	1.82	1.10
5:BO:43:ASP:CA	5:BQ:48:ASP:HB3	1.82	1.10
5:A3:13:LEU:HB2	14:A7:102:CRT:H1M1	1.31	1.09
5:AU:12:TRP:HE1	6:AV:18:HIS:HA	1.13	1.09
14:AB:102:CRT:H23	5:A9:13:LEU:CD1	1.82	1.09
5:AW:36:HIS:CE1	9:AX:101:BCL:HMD1	1.86	1.09
5:AO:12:TRP:NE1	6:AP:18:HIS:HA	1.67	1.09
1:AC:165:ALA:HB1	1:AC:303:LEU:HB3	1.30	1.09
5:AS:50:ASN:HA	5:AU:60:LYS:HA	1.29	1.09
3:BM:79:VAL:HG21	3:BM:85:GLN:HB3	1.33	1.09
2:AL:203:ILE:HG21	3:AM:266:HIS:HD1	0.96	1.09
5:AO:12:TRP:HE1	6:AP:18:HIS:HA	0.97	1.09
5:AS:10:LYS:O	14:AS:104:CRT:H33	1.50	1.09
6:BV:21:PHE:HD1	14:BV:102:CRT:H14	1.01	1.09
5:AF:19:ARG:NH2	5:AI:18:ARG:HH21	1.50	1.09
6:BZ:46:LEU:HD22	6:B2:42:TYR:CZ	1.87	1.08
9:AO:102:BCL:C1D	9:AP:101:BCL:HMD2	1.82	1.08
14:BS:103:CRT:H342	9:BU:102:BCL:HBA1	1.15	1.08
9:BV:101:BCL:HMA1	9:BW:102:BCL:HMA1	1.32	1.08
5:B7:29:ILE:HA	9:B7:103:BCL:H11	1.33	1.08
14:B7:102:CRT:H342	9:B7:103:BCL:HBA1	1.10	1.08
5:BA:27:PHE:CZ	5:BD:29:ILE:HD11	1.86	1.08
5:BD:36:HIS:CE1	9:BE:101:BCL:HMD1	1.88	1.08
4:BH:227:ASN:HD22	4:BH:228:PRO:HD2	1.13	1.08
9:A8:101:BCL:HMA1	9:A9:102:BCL:HMA1	1.31	1.08
6:BV:17:PHE:CD1	14:BV:102:CRT:H6	1.89	1.08
5:B5:5:ASN:HA	5:B5:8:LEU:HG	1.35	1.08
5:A1:5:ASN:HA	5:A1:8:LEU:HB3	1.34	1.07
5:A1:9:TYR:HA	6:A2:18:HIS:ND1	1.69	1.07
5:B7:43:ASP:HB2	5:B9:47:LEU:HD12	1.34	1.07
14:BW:103:CRT:H342	9:B1:102:BCL:HBA1	1.35	1.07
5:AF:4:MET:HB2	6:AJ:23:GLN:HG3	1.33	1.07
9:BQ:104:BCL:HMA1	9:BS:102:BCL:HMA1	1.35	1.07
5:BF:13:LEU:HD12	14:BF:103:CRT:H1M1	1.33	1.07
5:BW:16:ASP:HB2	5:BW:19:ARG:NE	1.70	1.07
5:A3:19:ARG:O	5:A3:23:SER:HB2	1.53	1.06
6:BE:33:VAL:HG23	9:BE:101:BCL:H141	1.31	1.06
9:BQ:103:BCL:CHD	9:BQ:104:BCL:HMD2	1.85	1.06
5:BU:12:TRP:HE1	6:BV:18:HIS:HA	0.93	1.06
4:BH:125:LEU:HA	4:BH:131:PRO:HA	1.35	1.06
5:BK:36:HIS:CE1	9:BN:101:BCL:HMD1	1.90	1.06

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BF:45:ASN:HB3	5:BF:49:ASP:HB3	1.36	1.06
6:A6:32:VAL:CG2	9:A6:101:BCL:HBA2	1.85	1.06
5:A7:29:ILE:HB	9:A7:103:BCL:H43	1.32	1.06
6:BX:32:VAL:HG11	9:BX:101:BCL:HBA2	1.35	1.06
14:AW:102:CRT:H183	9:AY:102:BCL:C9	1.84	1.06
5:B7:46:TRP:CH2	9:B7:103:BCL:HBC3	1.91	1.06
5:BU:21:LEU:O	5:BU:25:VAL:HG23	1.53	1.06
5:A3:11:ILE:HG12	14:A7:102:CRT:H81	1.34	1.06
3:BM:179:ILE:H	3:BM:179:ILE:HD13	1.14	1.06
5:AW:49:ASP:HB2	5:AY:56:GLN:HB2	1.36	1.05
9:BO:102:BCL:C1D	9:BP:101:BCL:HMD2	1.85	1.05
6:B2:20:ILE:HG21	14:B2:102:CRT:C8	1.86	1.05
6:A6:32:VAL:HG21	9:A6:101:BCL:CBA	1.84	1.05
5:AD:36:HIS:CE1	9:AE:101:BCL:HMD1	1.90	1.05
5:B1:11:ILE:CA	14:B1:103:CRT:C8	2.34	1.05
6:AR:27:ALA:O	6:AR:31:LEU:HG	1.56	1.05
5:AY:36:HIS:CE1	9:AZ:101:BCL:HMD1	1.90	1.05
14:B5:103:CRT:H342	9:B9:102:BCL:HBA1	1.32	1.05
5:AW:2:PHE:HA	5:AW:5:ASN:HD22	1.13	1.05
5:B1:11:ILE:HA	14:B1:103:CRT:H82	1.32	1.05
5:BW:16:ASP:HB2	5:BW:19:ARG:HE	1.19	1.05
5:AO:8:LEU:HA	6:AR:20:ILE:HD11	1.32	1.05
5:A3:43:ASP:HB2	5:A5:47:LEU:HD13	1.06	1.05
6:B2:21:PHE:HD1	14:B2:102:CRT:H14	0.94	1.05
6:AP:46:LEU:HB2	5:AQ:51:ILE:HG21	1.34	1.04
9:BW:102:BCL:CHD	9:BX:101:BCL:HMD2	1.87	1.04
1:AC:183:GLN:HE22	1:AC:230:GLU:HG2	1.20	1.04
5:B5:36:HIS:CE1	9:B6:101:BCL:HMD1	1.92	1.04
1:BC:20:LEU:HD22	1:BC:21:LEU:H	1.21	1.04
3:BM:63:PHE:HB3	3:BM:125:SER:HB2	1.39	1.04
14:BB:102:CRT:H2M3	5:BD:36:HIS:CB	1.87	1.04
6:BG:32:VAL:HG11	9:BG:101:BCL:HBA2	1.40	1.04
9:AQ:102:BCL:C1D	9:AR:101:BCL:HMD2	1.86	1.03
6:BV:21:PHE:HE1	14:BV:102:CRT:H16	1.19	1.03
5:AA:43:ASP:HA	5:AD:48:ASP:HB3	1.38	1.03
1:AC:280:ASN:OD1	1:AC:304:ARG:HB3	1.57	1.03
3:AM:79:VAL:HG21	3:AM:85:GLN:HB3	1.35	1.03
5:BK:27:PHE:CE2	5:BO:29:ILE:HD11	1.92	1.03
5:BS:28:GLN:O	9:BS:102:BCL:H11	1.56	1.03
5:A1:12:TRP:HZ2	6:A2:21:PHE:CD2	1.77	1.03
9:A8:101:BCL:HMC3	9:A9:102:BCL:HBB1	1.37	1.03
2:AL:203:ILE:HG21	3:AM:266:HIS:ND1	1.74	1.03

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AW:51:ILE:HB	5:AW:52:PRO:HA	1.40	1.03
6:BZ:46:LEU:HD21	6:B2:42:TYR:CE2	1.94	1.03
4:AH:31:ARG:HE	4:AH:31:ARG:HA	1.23	1.03
1:BC:135:ARG:HH12	1:BC:332:LYS:HA	1.21	1.03
6:A0:32:VAL:HG21	9:A0:102:BCL:HBA2	1.41	1.02
5:BA:36:HIS:CG	14:B0:101:CRT:H392	1.93	1.02
2:BL:239:HIS:CD2	3:BM:223:ILE:HG13	1.94	1.02
3:AM:105:ARG:HA	5:AO:42:THR:HG22	1.38	1.02
4:AH:125:LEU:HA	4:AH:131:PRO:HA	1.37	1.02
14:B1:103:CRT:H342	9:B5:102:BCL:HBA1	1.39	1.02
2:BL:120:LEU:HD21	3:BM:250:LEU:HD23	1.40	1.02
9:BK:102:BCL:C1D	9:BN:101:BCL:HMD2	1.89	1.02
5:A7:36:HIS:HB3	14:A7:102:CRT:H2M3	1.39	1.02
6:AB:32:VAL:HG21	9:AB:101:BCL:HBA2	1.38	1.02
5:AF:42:THR:O	5:AI:48:ASP:HB3	1.59	1.02
5:AY:8:LEU:HB3	6:AZ:18:HIS:CE1	1.94	1.02
5:AS:51:ILE:HB	5:AS:52:PRO:HA	1.40	1.02
6:AB:29:PHE:HE1	9:AB:101:BCL:H11	1.21	1.02
5:A1:7:ASN:HB3	5:A1:10:LYS:HE3	1.39	1.02
5:A1:44:LEU:HD13	6:A2:43:ARG:HD2	1.38	1.02
5:A7:37:MET:N	14:A7:102:CRT:H2M1	1.74	1.02
9:BI:102:BCL:C1D	9:BJ:101:BCL:HMD2	1.88	1.02
14:BP:102:CRT:C34	9:BQ:103:BCL:HBA1	1.88	1.02
5:BY:8:LEU:HA	6:B2:20:ILE:HD11	1.41	1.02
3:BM:104:LEU:HD11	3:BM:169:GLY:HA2	1.39	1.02
5:A5:4:MET:HG3	6:A8:27:ALA:CB	1.89	1.01
6:AG:28:TRP:NE1	6:AG:32:VAL:HG21	1.74	1.01
6:AN:30:GLY:O	6:AN:34:ILE:HG22	1.59	1.01
3:BM:187:ALA:HA	9:BM:402:BCL:HBC1	1.42	1.01
14:AS:104:CRT:C18	9:AU:102:BCL:C9	2.37	1.01
6:B2:20:ILE:HG21	14:B2:102:CRT:H83	1.42	1.01
6:B2:21:PHE:HB2	14:B2:102:CRT:H11	1.42	1.01
9:BQ:103:BCL:C1D	9:BQ:104:BCL:HMD2	1.90	1.01
1:AC:45:ASN:HD22	1:AC:48:GLN:HB2	1.25	1.01
4:AH:227:ASN:HD22	4:AH:228:PRO:HD2	1.20	1.01
6:A8:33:VAL:HG23	9:A8:101:BCL:H142	1.43	1.01
5:AO:8:LEU:HD12	6:AP:18:HIS:HE1	1.20	1.01
5:B7:36:HIS:CE1	9:B8:101:BCL:HMD1	1.94	1.01
3:BM:140:LEU:HD23	3:BM:142:MET:HG3	1.42	1.01
9:BQ:103:BCL:HBC1	9:BQ:104:BCL:HBC3	1.37	1.01
6:AB:20:ILE:HD12	14:AB:102:CRT:H10	1.41	1.01
14:BA:102:CRT:H342	9:BF:102:BCL:HBA1	1.41	1.01

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:BH:31:ARG:HA	4:BH:31:ARG:HE	1.25	1.01
5:BK:27:PHE:HE2	5:BO:29:ILE:HD11	1.22	1.01
6:BZ:46:LEU:HB2	5:B1:52:PRO:HD3	1.42	1.01
6:BV:17:PHE:HD1	14:BV:102:CRT:H6	1.21	1.00
14:BB:102:CRT:C2M	5:BD:36:HIS:HB2	1.90	1.00
5:BO:29:ILE:HA	9:BO:102:BCL:H11	1.39	1.00
10:BM:403:BPH:HMA1	15:BQ:101:PEF:H411	1.41	1.00
9:B1:102:BCL:C1D	9:B2:101:BCL:HMD2	1.91	1.00
5:B1:11:ILE:N	14:B1:103:CRT:C8	2.25	1.00
5:BU:12:TRP:NE1	6:BV:18:HIS:HA	1.74	1.00
2:AL:22:LEU:HB2	5:A7:19:ARG:CB	1.90	1.00
5:BA:27:PHE:CE1	5:BD:29:ILE:HD11	1.95	1.00
5:BU:14:ILE:CG1	14:BU:103:CRT:C3	2.26	1.00
5:BU:18:ARG:O	5:BU:22:VAL:HG12	1.61	1.00
6:BT:9:LEU:HD22	6:BT:13:GLU:HG3	1.43	1.00
5:B1:13:LEU:HB3	14:B1:103:CRT:H1M3	1.38	1.00
6:B2:21:PHE:CD1	14:B2:102:CRT:H16	1.95	1.00
2:BL:177:HIS:HB3	3:BM:183:LEU:HD22	1.43	1.00
5:AY:28:GLN:HB3	9:AY:102:BCL:C2	1.92	1.00
1:BC:165:ALA:HB1	1:BC:303:LEU:HB3	1.42	1.00
4:AH:159:LEU:HD22	4:AH:254:ARG:NH2	1.77	1.00
5:BO:4:MET:HB2	6:BR:23:GLN:HB3	1.42	1.00
5:AF:28:GLN:HB3	9:AF:102:BCL:H12	1.36	1.00
5:B9:36:HIS:CE1	9:B0:102:BCL:HMD1	1.96	1.00
2:AL:160:LEU:HD11	3:AM:305:PRO:HD3	1.43	0.99
6:B0:21:PHE:HB2	14:B0:101:CRT:C12	1.91	0.99
9:BE:101:BCL:C1B	9:BF:102:BCL:HMB3	1.92	0.99
1:AC:280:ASN:HB3	1:AC:304:ARG:HD2	1.40	0.99
14:B2:102:CRT:H342	9:B3:102:BCL:HBA1	1.42	0.99
1:BC:280:ASN:OD1	1:BC:304:ARG:HB3	1.60	0.99
4:BH:5:ILE:CG2	5:BD:42:THR:HG21	1.93	0.99
5:B7:44:LEU:CD2	5:B7:46:TRP:HE3	1.75	0.99
5:BQ:51:ILE:HG13	5:BQ:52:PRO:HA	1.44	0.99
5:BU:14:ILE:CD1	14:BU:103:CRT:C3	2.41	0.99
5:A5:4:MET:HG2	6:A8:24:SER:CA	1.92	0.99
6:AG:46:LEU:HB3	6:AJ:42:TYR:CZ	1.97	0.99
6:AP:21:PHE:HE1	6:AP:25:MET:HB2	1.22	0.99
6:B0:21:PHE:HB2	14:B0:101:CRT:C14	1.91	0.99
6:B2:20:ILE:CG2	14:B2:102:CRT:C7	2.39	0.99
1:BC:39:GLY:HA3	2:BL:168:ASN:ND2	1.77	0.99
5:BO:4:MET:HB2	6:BR:23:GLN:CB	1.92	0.99
14:AW:102:CRT:H183	9:AY:102:BCL:H91	1.43	0.99

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:267:THR:HG21	3:BM:314:VAL:HB	1.41	0.99
5:A3:43:ASP:HB2	5:A5:47:LEU:CD1	1.92	0.99
5:A9:36:HIS:CE1	9:A0:102:BCL:HMD1	1.97	0.99
14:AW:102:CRT:C18	9:AY:102:BCL:C9	2.39	0.99
6:B2:17:PHE:CD1	14:B2:102:CRT:H9	1.97	0.99
5:BA:46:TRP:CB	6:BB:43:ARG:HH22	1.75	0.99
14:AB:102:CRT:H31A	5:A9:10:LYS:O	1.63	0.98
3:BM:250:LEU:HG	3:BM:254:TRP:HE1	1.24	0.98
6:A0:17:PHE:C	6:A0:17:PHE:CD1	2.35	0.98
14:BN:102:CRT:H342	9:BO:102:BCL:HBA1	1.43	0.98
4:BH:136:MET:HA	4:BH:139:ALA:HB3	1.42	0.98
14:A7:102:CRT:C22	14:A7:102:CRT:C20	2.42	0.98
9:AP:101:BCL:HMA1	9:AQ:102:BCL:HMA1	1.45	0.98
4:BH:159:LEU:HD22	4:BH:254:ARG:NH2	1.77	0.98
5:BI:36:HIS:CE1	9:BJ:101:BCL:HMD1	1.98	0.98
14:BU:103:CRT:C2M	5:BY:37:MET:N	2.26	0.98
6:AN:41:LEU:HD23	6:AN:42:TYR:N	1.77	0.98
9:AD:102:BCL:C1D	9:AE:101:BCL:HMD2	1.93	0.98
14:BV:102:CRT:C39	5:BW:36:HIS:CB	2.30	0.98
5:AA:18:ARG:HG3	5:A9:14:ILE:HG23	1.46	0.98
5:B3:44:LEU:HD21	9:B4:101:BCL:HBC3	1.45	0.98
5:A1:8:LEU:HD23	5:A1:9:TYR:N	1.77	0.98
1:AC:236:MET:SD	7:AC:503:HEM:NB	2.35	0.98
2:AL:175:HIS:HA	17:AL:402:HOH:O	1.64	0.98
5:A7:43:ASP:HB2	5:A9:47:LEU:HD12	1.44	0.98
4:AH:55:VAL:HG13	4:AH:56:VAL:H	1.26	0.98
9:AW:101:BCL:C1	9:AW:101:BCL:CGA	2.42	0.98
5:AW:5:ASN:HA	5:AW:8:LEU:HD12	1.46	0.98
5:AF:8:LEU:HD21	6:AJ:24:SER:OG	1.62	0.98
5:BW:9:TYR:HA	6:BX:18:HIS:CG	1.98	0.98
5:BD:46:TRP:CH2	9:BD:102:BCL:HBC3	1.99	0.97
6:AP:32:VAL:HG11	9:AP:101:BCL:CBA	1.94	0.97
6:AZ:45:TRP:CE3	9:AZ:101:BCL:HAC2	2.00	0.97
4:BH:55:VAL:HG13	4:BH:56:VAL:H	1.28	0.97
5:BW:24:ILE:HD11	9:BY:102:BCL:H18	1.45	0.97
9:AO:102:BCL:ND	9:AP:101:BCL:HMD2	1.78	0.97
5:BA:36:HIS:NE2	9:BB:101:BCL:HMD1	1.80	0.97
14:A5:103:CRT:C29	9:A9:102:BCL:H42	1.93	0.97
9:AA:101:BCL:C1D	9:AB:101:BCL:HMD2	1.94	0.97
6:AG:45:TRP:HA	5:AI:52:PRO:HD2	1.44	0.97
2:AL:273:ASN:HA	2:AL:276:LEU:HD23	1.45	0.97
5:AS:9:TYR:HB2	6:AT:15:LYS:HA	1.46	0.97

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:BV:21:PHE:CE1	14:BV:102:CRT:H16	1.98	0.97
9:AI:102:BCL:C1D	9:AJ:101:BCL:HMD2	1.94	0.97
5:BA:43:ASP:HA	5:BD:48:ASP:HB3	1.45	0.97
14:BB:102:CRT:H2M3	5:BD:36:HIS:HB2	0.98	0.97
3:BM:25:LYS:HD2	6:BP:8:GLY:HA3	1.45	0.97
14:A1:103:CRT:H342	9:A5:102:BCL:H3A	1.46	0.97
9:BG:101:BCL:HMB3	9:BI:102:BCL:CHB	1.95	0.97
6:AR:46:LEU:HB3	6:AT:42:TYR:CE2	2.00	0.97
6:BE:45:TRP:O	6:BE:46:LEU:HG	1.65	0.97
14:AB:102:CRT:H2M3	5:AD:36:HIS:HB2	1.47	0.97
5:BF:9:TYR:CE1	5:BF:10:LYS:HD3	2.00	0.97
5:BU:43:ASP:HA	5:BW:47:LEU:C	1.84	0.97
6:AB:23:GLN:HG3	5:A9:4:MET:HE1	1.45	0.97
5:AI:42:THR:HB	5:AK:48:ASP:OD1	1.64	0.97
5:BA:36:HIS:HB2	14:B0:101:CRT:H391	0.98	0.97
14:BV:102:CRT:H393	5:BW:36:HIS:HB3	1.23	0.96
5:A7:36:HIS:HB2	14:A7:102:CRT:C2M	1.94	0.96
14:AB:102:CRT:H23	5:A9:13:LEU:HD12	0.99	0.96
5:AO:12:TRP:HE1	6:AP:18:HIS:CA	1.77	0.96
5:AS:46:TRP:CZ3	9:AS:103:BCL:HBC3	1.99	0.96
5:AY:11:ILE:HD13	9:A1:102:BCL:H151	1.46	0.96
5:B3:36:HIS:CE1	9:B4:101:BCL:HMD1	1.99	0.96
1:BC:165:ALA:CB	1:BC:303:LEU:HB3	1.94	0.96
9:BU:102:BCL:C1D	9:BV:101:BCL:HMD2	1.95	0.96
14:AP:102:CRT:C34	9:AQ:102:BCL:HBA1	1.95	0.96
14:AS:104:CRT:C10	6:AV:20:ILE:CD1	2.43	0.96
5:B5:10:LYS:HB3	14:B5:103:CRT:H5	1.46	0.96
2:AL:78:PRO:HB3	2:AL:92:GLY:HA3	1.47	0.96
4:AH:231:VAL:HG23	4:AH:235:GLU:HG3	1.47	0.96
5:AS:37:MET:HG2	15:AS:101:PEF:H452	1.47	0.96
14:AS:104:CRT:H36	5:AW:33:LEU:HA	1.47	0.96
14:AS:104:CRT:C10	6:AV:20:ILE:HD12	1.95	0.96
5:BY:36:HIS:CE1	9:BZ:101:BCL:HMD1	2.01	0.96
5:BY:12:TRP:HE1	6:BZ:18:HIS:HA	1.31	0.96
6:BN:10:THR:HG22	6:BN:11:ASP:H	1.27	0.96
5:BF:11:ILE:HB	14:BF:103:CRT:H82	1.44	0.96
2:BL:188:PHE:HB3	2:BL:249:ALA:HB2	1.45	0.96
4:BH:130:LEU:HG	4:BH:131:PRO:HD2	1.44	0.96
6:A0:20:ILE:HD12	14:A0:101:CRT:H133	1.47	0.96
2:AL:126:VAL:HB	2:AL:127:PRO:HD3	1.47	0.96
5:B3:28:GLN:HG3	9:B3:102:BCL:H12	1.47	0.96
4:BH:5:ILE:HG23	4:BH:6:THR:N	1.81	0.96

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:175:PRO:HD2	1:AC:179:LYS:HB2	1.46	0.96
5:BF:29:ILE:HA	9:BF:102:BCL:H11	1.46	0.96
14:BU:103:CRT:H14	6:BX:24:SER:HB3	1.46	0.96
5:BA:46:TRP:HB2	6:BB:43:ARG:HH22	1.24	0.95
6:AB:29:PHE:CE1	9:AB:101:BCL:H11	2.00	0.95
14:AS:104:CRT:C7	6:AV:20:ILE:HD12	1.94	0.95
6:BB:32:VAL:HG21	9:BB:101:BCL:HBA2	1.48	0.95
5:A7:37:MET:N	14:A7:102:CRT:C2M	2.28	0.95
5:AI:9:TYR:HA	6:AJ:18:HIS:ND1	1.79	0.95
6:B0:32:VAL:HG21	9:B0:102:BCL:HBA2	1.47	0.95
5:B7:33:LEU:O	14:B7:102:CRT:H2M1	1.66	0.95
5:AS:11:ILE:HA	14:AS:104:CRT:H82	1.47	0.95
6:B2:17:PHE:CD1	14:B2:102:CRT:H6	2.01	0.95
9:BF:102:BCL:C1D	9:BG:101:BCL:HMD2	1.95	0.95
6:AB:40:TRP:HZ3	6:AB:45:TRP:H	1.05	0.95
4:AH:195:LEU:HD12	4:AH:196:PRO:HD2	1.49	0.95
5:BA:55:TYR:HE1	5:B9:44:LEU:HB3	1.28	0.95
9:AF:102:BCL:C1D	9:AG:101:BCL:HMD2	1.97	0.95
4:AH:123:CYS:HA	4:AH:232:THR:HA	1.48	0.95
9:AJ:101:BCL:C1B	9:AK:102:BCL:HMB3	1.97	0.95
6:AG:46:LEU:HB3	6:AJ:42:TYR:CE2	2.02	0.95
5:AQ:51:ILE:HG13	5:AQ:52:PRO:HA	1.45	0.95
5:B3:11:ILE:N	14:B7:102:CRT:H82	1.81	0.95
14:A5:103:CRT:H342	9:A9:102:BCL:HBA1	1.46	0.95
5:AI:36:HIS:CE1	9:AJ:101:BCL:HMD1	2.01	0.95
6:AP:30:GLY:O	6:AP:34:ILE:HG22	1.67	0.95
5:AO:13:LEU:O	6:AP:7:THR:HA	1.66	0.95
6:B2:17:PHE:HB2	14:B2:102:CRT:C4	1.96	0.95
2:BL:183:MET:HA	17:BL:401:HOH:O	1.63	0.95
9:A3:104:BCL:H61	6:A4:29:PHE:CE1	2.01	0.95
5:A5:16:ASP:HB2	5:A5:19:ARG:HG2	1.47	0.94
5:AF:27:PHE:CE1	5:AI:29:ILE:HD11	2.02	0.94
9:BA:101:BCL:HBA1	14:B0:101:CRT:H342	1.45	0.94
14:BF:103:CRT:H342	9:BK:102:BCL:HBA1	1.46	0.94
2:BL:230:GLY:HA2	3:BM:51:ILE:HB	1.49	0.94
6:BZ:46:LEU:CB	5:B1:52:PRO:HD3	1.96	0.94
10:AM:403:BPH:H9C3	15:AM:409:PEF:H222	1.48	0.94
5:BU:12:TRP:HE1	6:BV:18:HIS:CA	1.80	0.94
9:AL:301:BCL:HBA2	9:AM:401:BCL:HBC1	1.47	0.94
6:AV:7:THR:HG22	14:AX:102:CRT:C1M	1.97	0.94
3:BM:275:LEU:HA	3:BM:278:ILE:HD12	1.48	0.94
4:BH:227:ASN:ND2	4:BH:228:PRO:HD2	1.80	0.94

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:21:PHE:CD1	6:AG:22:MET:N	2.35	0.94
6:B2:29:PHE:HE1	9:B2:101:BCL:H11	1.26	0.94
5:BF:50:ASN:CG	6:BG:43:ARG:HH22	1.71	0.94
5:AF:19:ARG:HH22	5:AI:18:ARG:NH2	1.65	0.94
5:BF:4:MET:CG	6:BJ:23:GLN:HG3	1.96	0.94
4:BH:176:GLU:HG3	4:BH:178:GLN:HG2	1.50	0.94
5:A5:25:VAL:HG11	9:A5:102:BCL:H192	1.50	0.94
5:A5:43:ASP:HB2	5:A7:47:LEU:HB3	1.45	0.94
5:AS:13:LEU:HB2	14:AS:104:CRT:C3	1.96	0.94
6:B0:40:TRP:HH2	6:B0:46:LEU:HG	1.32	0.94
6:B4:13:GLU:HA	6:B4:16:GLU:HG2	1.48	0.94
5:BO:43:ASP:HA	5:BQ:48:ASP:HB3	0.96	0.94
1:AC:165:ALA:CB	1:AC:303:LEU:HB3	1.98	0.94
5:A5:51:ILE:HB	5:A5:52:PRO:HA	1.50	0.94
5:AW:10:LYS:HD2	6:AZ:20:ILE:HD12	1.48	0.94
6:AZ:10:THR:HG22	6:AZ:11:ASP:H	1.30	0.94
1:AC:291:LEU:HD23	1:AC:292:PRO:HD2	1.48	0.94
6:BG:27:ALA:O	6:BG:31:LEU:HG	1.68	0.94
4:BH:5:ILE:CG2	4:BH:6:THR:H	1.80	0.94
9:BQ:103:BCL:OBD	6:BR:32:VAL:HG13	1.65	0.94
6:B2:21:PHE:CE1	14:B2:102:CRT:C16	2.50	0.94
9:BW:102:BCL:C1D	9:BX:101:BCL:CMD	2.45	0.94
1:AC:39:GLY:HA3	2:AL:168:ASN:ND2	1.83	0.93
9:AL:301:BCL:H2C	9:AM:402:BCL:H2C	1.49	0.93
14:AW:102:CRT:H182	9:AY:102:BCL:H8	1.49	0.93
5:BO:4:MET:HB2	6:BR:23:GLN:CG	1.99	0.93
9:AA:101:BCL:HMB3	9:A0:102:BCL:C1B	1.98	0.93
5:A1:12:TRP:HE1	6:A2:18:HIS:HA	1.32	0.93
2:AL:196:LEU:HD23	3:AM:216:PHE:HB2	1.47	0.93
6:AR:46:LEU:HB3	6:AT:42:TYR:OH	1.69	0.93
6:A6:29:PHE:CE1	9:A6:101:BCL:H11	2.02	0.93
4:AH:55:VAL:HA	5:AA:19:ARG:HH12	1.31	0.93
14:AS:104:CRT:H183	9:AU:102:BCL:C9	1.97	0.93
6:BP:10:THR:HG22	6:BP:11:ASP:H	1.31	0.93
4:BH:6:THR:CB	5:BF:41:SER:HB3	1.99	0.93
5:BU:12:TRP:CE2	6:BV:17:PHE:CE2	2.55	0.93
5:AU:12:TRP:NE1	6:AV:18:HIS:HA	1.82	0.93
1:BC:203:PHE:CE1	1:BC:210:ILE:HG12	2.01	0.93
5:B9:51:ILE:HB	5:B9:52:PRO:HA	1.47	0.93
5:BS:45:ASN:HB3	5:BS:49:ASP:HB3	1.48	0.93
2:AL:158:GLY:HA3	2:AL:161:SER:HB3	1.49	0.93
5:BU:16:ASP:HB3	5:BU:18:ARG:HH11	1.34	0.93

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:A7:36:HIS:HB2	14:A7:102:CRT:H2M3	1.45	0.93
5:AK:36:HIS:CE1	9:AN:101:BCL:HMD1	2.04	0.93
5:AS:30:VAL:CG2	15:AS:101:PEF:C39	2.46	0.93
6:BX:46:LEU:HB2	5:BY:52:PRO:HD3	1.48	0.93
6:A2:17:PHE:HE1	14:A2:102:CRT:H9	1.33	0.93
5:BA:47:LEU:HD12	5:B9:43:ASP:HB2	1.49	0.93
9:BP:101:BCL:HMA1	9:BQ:103:BCL:HMA1	1.48	0.93
4:AH:5:ILE:HG23	4:AH:6:THR:H	1.33	0.93
5:B7:43:ASP:CA	5:B9:48:ASP:HB3	1.99	0.93
4:AH:234:TYR:O	4:AH:238:LYS:HG2	1.69	0.92
14:AS:104:CRT:H183	9:AU:102:BCL:H92	1.51	0.92
5:AY:12:TRP:HE1	6:AZ:18:HIS:HA	1.34	0.92
6:B8:32:VAL:HG11	9:B8:101:BCL:HBA2	1.50	0.92
3:BM:105:ARG:HA	5:BO:42:THR:HG22	1.51	0.92
6:B4:30:GLY:O	6:B4:33:VAL:HG12	1.70	0.92
9:A1:102:BCL:H92	14:A2:102:CRT:C18	1.98	0.92
5:A1:15:LEU:HA	5:A3:18:ARG:HH12	1.34	0.92
5:A5:4:MET:SD	6:A8:27:ALA:HB3	2.10	0.92
5:AF:9:TYR:CE1	5:AF:10:LYS:HD3	2.03	0.92
3:AM:200:PRO:HA	3:AM:203:MET:HG2	1.51	0.92
14:AS:104:CRT:H342	9:AW:101:BCL:HBA1	1.51	0.92
9:AN:101:BCL:HMB3	9:AO:102:BCL:CHB	1.99	0.92
5:BA:46:TRP:HB2	6:B0:46:LEU:OXT	1.69	0.92
5:B1:11:ILE:N	14:B1:103:CRT:H83	1.82	0.92
2:AL:87:ALA:H	2:AL:96:GLN:HE22	0.93	0.92
9:B1:102:BCL:CBC	9:B2:101:BCL:HBC3	2.00	0.92
5:B1:36:HIS:CE1	9:B2:101:BCL:HMD1	2.04	0.92
5:B3:11:ILE:CA	14:B7:102:CRT:H82	1.99	0.92
1:BC:97:VAL:HG21	1:BC:131:PHE:HZ	1.31	0.92
2:BL:196:LEU:HD11	3:BM:269:ALA:HB1	1.48	0.92
5:BU:13:LEU:O	6:BV:7:THR:HA	1.69	0.92
4:AH:227:ASN:ND2	4:AH:228:PRO:HD2	1.83	0.92
5:AF:28:GLN:HA	9:AG:101:BCL:HED1	1.51	0.92
6:AV:46:LEU:HB3	6:AX:42:TYR:OH	1.68	0.92
5:B3:11:ILE:HG12	14:B7:102:CRT:C8	2.00	0.92
1:BC:280:ASN:HB3	1:BC:304:ARG:HD2	1.52	0.92
5:BU:26:ALA:O	5:BU:29:ILE:HG22	1.69	0.92
3:BM:299:VAL:HB	3:BM:304:ALA:HB3	1.51	0.92
14:A2:102:CRT:H2M2	5:A3:40:LEU:HD11	1.47	0.92
5:A9:36:HIS:NE2	9:A0:102:BCL:HMD1	1.83	0.92
9:AE:101:BCL:C1B	9:AF:102:BCL:HMB3	2.00	0.92
3:AM:104:LEU:HD11	3:AM:169:GLY:HA2	1.51	0.92

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AQ:102:BCL:CHD	9:AR:101:BCL:HMD2	2.00	0.92
5:AU:26:ALA:O	5:AU:29:ILE:HG22	1.69	0.92
5:AS:11:ILE:HG12	14:AS:104:CRT:H81	1.49	0.92
5:BY:10:LYS:HB2	14:B2:102:CRT:H82	1.52	0.92
6:B2:21:PHE:HE1	14:B2:102:CRT:H16	1.15	0.92
5:BK:11:ILE:HG12	14:BP:102:CRT:H81	1.49	0.92
14:BV:102:CRT:H342	9:BW:102:BCL:HBA1	1.49	0.92
5:BF:44:LEU:HB2	6:BG:43:ARG:HH11	1.30	0.92
6:A4:30:GLY:O	6:A4:33:VAL:HG12	1.70	0.92
1:AC:32:GLN:HB2	2:AL:80:LEU:HD12	1.49	0.92
5:AD:39:VAL:O	5:AD:43:ASP:HB3	1.70	0.92
6:AP:27:ALA:O	6:AP:31:LEU:HG	1.70	0.92
6:BV:46:LEU:HB3	6:BX:42:TYR:OH	1.71	0.91
9:A0:102:BCL:HBB2	9:A0:102:BCL:C16	2.00	0.91
5:A1:52:PRO:HD2	5:A1:55:TYR:OH	1.70	0.91
6:BV:17:PHE:HD1	14:BV:102:CRT:C6	1.83	0.91
5:A7:4:MET:SD	6:A0:24:SER:OG	2.28	0.91
5:AF:11:ILE:N	14:AJ:102:CRT:H82	1.83	0.91
1:BC:175:PRO:HD2	1:BC:179:LYS:HB2	1.52	0.91
2:BL:89:LEU:HA	2:BL:94:LEU:H	1.33	0.91
3:BM:175:VAL:HA	3:BM:185:TRP:CD1	2.05	0.91
14:AB:102:CRT:C2	5:A9:13:LEU:CD1	2.45	0.91
5:B7:43:ASP:HA	5:B9:48:ASP:HB3	1.49	0.91
1:BC:39:GLY:HA3	2:BL:168:ASN:HD22	1.33	0.91
4:BH:5:ILE:HG22	5:BD:42:THR:HG21	1.50	0.91
5:BF:27:PHE:CE1	5:BI:29:ILE:HD11	2.06	0.91
2:BL:196:LEU:HD13	3:BM:216:PHE:HB2	1.51	0.91
6:A0:17:PHE:CD1	6:A0:18:HIS:N	2.37	0.91
5:AS:8:LEU:HD22	5:AS:11:ILE:HD11	1.53	0.91
1:BC:135:ARG:NH1	1:BC:332:LYS:HA	1.84	0.91
6:BV:20:ILE:HG21	14:BV:102:CRT:C7	2.01	0.91
5:A7:29:ILE:HA	9:A7:103:BCL:H11	1.51	0.91
3:AM:136:ARG:HA	3:AM:136:ARG:NH1	1.86	0.91
5:B1:11:ILE:HA	14:B1:103:CRT:H81	1.49	0.91
5:BD:15:LEU:HB3	5:BD:20:VAL:HG21	1.50	0.91
5:BO:50:ASN:CG	6:BP:43:ARG:HH22	1.73	0.91
6:BN:29:PHE:O	6:BN:33:VAL:HB	1.71	0.91
3:AM:235:ILE:HD12	3:AM:235:ILE:H	1.35	0.91
5:AO:8:LEU:HD12	6:AP:18:HIS:CE1	2.05	0.91
9:BA:101:BCL:HMB3	9:B0:102:BCL:C1B	2.01	0.91
1:BC:81:VAL:HG11	1:BC:131:PHE:HB3	1.52	0.91
5:BK:46:TRP:HA	5:BK:49:ASP:OD1	1.69	0.91

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BO:13:LEU:O	6:BP:7:THR:HA	1.70	0.91
6:AG:21:PHE:C	6:AG:21:PHE:CD1	2.45	0.91
9:AO:102:BCL:ND	9:AP:101:BCL:CMD	2.32	0.91
6:BZ:46:LEU:CD2	6:B2:42:TYR:CE2	2.54	0.91
5:A1:36:HIS:CE1	9:A2:101:BCL:HMD1	2.05	0.90
14:AB:102:CRT:H21A	5:A9:13:LEU:HD12	1.51	0.90
6:A0:16:GLU:OE2	14:A0:101:CRT:H21A	1.70	0.90
9:A8:101:BCL:H152	9:A8:101:BCL:H203	1.49	0.90
1:AC:39:GLY:HA3	2:AL:168:ASN:HD22	1.33	0.90
9:AU:102:BCL:C1D	9:AV:102:BCL:HMD2	2.01	0.90
5:B3:5:ASN:HA	5:B3:8:LEU:HD12	1.53	0.90
5:BQ:35:ILE:HA	5:BQ:38:ILE:HG22	1.52	0.90
3:AM:279:THR:HA	3:AM:282:ILE:HD12	1.53	0.90
6:AP:32:VAL:CG1	9:AP:101:BCL:HBA2	2.00	0.90
3:AM:63:PHE:HZ	5:AQ:33:LEU:HD23	1.34	0.90
5:BA:36:HIS:CG	14:B0:101:CRT:C39	2.55	0.90
2:AL:59:THR:HB	2:AL:63:SER:HB3	1.53	0.90
2:BL:4:LEU:HD12	3:BM:250:LEU:HD12	1.54	0.90
5:BO:36:HIS:CE1	9:BP:101:BCL:HMD1	2.07	0.90
6:BV:21:PHE:HD1	14:BV:102:CRT:C14	1.84	0.90
5:AF:4:MET:CB	6:AJ:23:GLN:HG3	2.00	0.90
9:A9:102:BCL:C1D	9:A0:102:BCL:HMD2	2.00	0.90
6:A8:33:VAL:HG23	9:A8:101:BCL:C14	2.01	0.90
9:BW:102:BCL:HBC1	9:BX:101:BCL:HBC3	1.51	0.90
3:AM:278:ILE:O	3:AM:282:ILE:HG13	1.71	0.90
5:AO:43:ASP:HA	5:AQ:48:ASP:HB3	1.53	0.90
5:AF:19:ARG:HH12	5:AI:18:ARG:NH2	1.70	0.90
6:BT:10:THR:HG22	6:BT:11:ASP:H	1.36	0.90
6:A0:17:PHE:C	6:A0:17:PHE:HD1	1.74	0.90
1:AC:267:THR:HG21	3:AM:314:VAL:HB	1.53	0.90
5:BI:26:ALA:O	5:BI:29:ILE:HG22	1.70	0.90
14:BO:103:CRT:H342	9:BS:102:BCL:HBA1	1.53	0.90
9:BQ:104:BCL:HBA2	6:BR:32:VAL:HG11	1.54	0.90
2:AL:276:LEU:H	2:AL:276:LEU:HD22	1.37	0.90
9:A3:103:BCL:C1D	9:A3:104:BCL:HMD2	2.02	0.90
5:A5:4:MET:CG	6:A8:27:ALA:HB3	2.02	0.90
6:B2:17:PHE:CB	14:B2:102:CRT:H41	2.01	0.90
4:BH:45:ARG:HD3	4:BH:97:GLY:H	1.36	0.90
1:AC:153:TYR:HB3	1:AC:323:MET:HE3	1.54	0.90
5:B1:32:GLY:HA3	9:B1:102:BCL:O1A	1.72	0.90
6:B2:32:VAL:HG11	9:B2:101:BCL:HBA2	1.53	0.90
6:AE:29:PHE:CE1	9:AE:101:BCL:H11	2.07	0.89

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AP:21:PHE:CE1	6:AP:25:MET:HB2	2.07	0.89
9:AW:101:BCL:C1D	9:AX:101:BCL:HMD2	2.01	0.89
2:BL:197:SER:HB3	3:BM:273:ALA:HB1	1.54	0.89
5:BU:36:HIS:CE1	9:BV:101:BCL:HMD1	2.05	0.89
6:A6:32:VAL:HG21	9:A6:101:BCL:HBA2	0.92	0.89
6:B0:40:TRP:CH2	6:B0:46:LEU:HG	2.07	0.89
5:BD:26:ALA:O	5:BD:29:ILE:HG22	1.72	0.89
1:AC:183:GLN:NE2	1:AC:230:GLU:HG2	1.86	0.89
6:AP:46:LEU:HB2	5:AQ:51:ILE:CG2	2.00	0.89
6:BV:29:PHE:CE1	9:BV:101:BCL:H11	2.07	0.89
14:AA:102:CRT:H342	9:AF:102:BCL:HBA1	1.52	0.89
4:AH:35:LYS:HZ3	4:AH:57:GLY:HA3	1.34	0.89
2:AL:89:LEU:HA	2:AL:94:LEU:N	1.87	0.89
6:AT:10:THR:HG22	6:AT:11:ASP:H	1.38	0.89
5:AY:13:LEU:HD21	6:AZ:14:ALA:CB	2.01	0.89
6:B2:17:PHE:CE1	14:B2:102:CRT:H9	2.08	0.89
6:B6:29:PHE:CE1	9:B6:101:BCL:H11	2.07	0.89
2:BL:186:ILE:HD13	9:BL:303:BCL:HMD1	1.52	0.89
1:BC:17:SER:HB3	3:BM:91:PHE:HZ	1.36	0.89
14:BU:103:CRT:C34	9:BY:102:BCL:HBA1	2.01	0.89
1:AC:285:TRP:CZ3	1:AC:302:PRO:HD3	2.06	0.89
6:AZ:46:LEU:HB2	5:A1:52:PRO:CD	2.02	0.89
6:B6:32:VAL:HG21	9:B6:101:BCL:CBA	2.01	0.89
1:BC:22:GLY:HA3	2:BL:263:PHE:HB3	1.55	0.89
14:A2:102:CRT:H2M1	5:A3:40:LEU:CD1	2.03	0.89
5:AQ:36:HIS:CE1	9:AR:101:BCL:HMD1	2.07	0.89
6:AZ:45:TRP:CE3	9:AZ:101:BCL:H2C	2.07	0.89
5:BA:36:HIS:CE1	9:BB:101:BCL:HMD1	2.06	0.89
6:BG:31:LEU:O	6:BG:34:ILE:HG13	1.73	0.89
9:BM:402:BCL:H143	15:BQ:101:PEF:H442	1.54	0.89
5:BQ:50:ASN:HD22	5:BS:56:GLN:HA	1.37	0.89
5:A7:2:PHE:N	5:A7:5:ASN:HB3	1.87	0.89
2:BL:217:THR:H	2:BL:220:HIS:CE1	1.90	0.89
1:AC:280:ASN:O	1:AC:285:TRP:HB2	1.73	0.89
9:AY:102:BCL:HMD1	6:AZ:36:HIS:CD2	2.08	0.89
6:B0:17:PHE:CE1	14:B0:101:CRT:H11	2.07	0.89
9:BL:301:BCL:HBA2	9:BM:401:BCL:HBC1	1.54	0.89
5:AF:19:ARG:HH22	5:AI:18:ARG:HH21	0.94	0.89
2:AL:89:LEU:HG	2:AL:97:ILE:HD11	1.53	0.89
6:AT:17:PHE:HD1	14:AT:102:CRT:H6	1.36	0.89
6:BB:42:TYR:OH	6:B0:46:LEU:HB3	1.72	0.89
1:AC:148:THR:HG23	1:AC:322:GLN:HA	1.55	0.89

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:A2:17:PHE:CE1	14:A2:102:CRT:H6	2.08	0.89
9:A6:101:BCL:HMC3	9:A7:103:BCL:HBB1	1.55	0.89
2:AL:87:ALA:H	2:AL:96:GLN:NE2	1.71	0.89
5:AS:30:VAL:HG21	15:AS:101:PEF:H392	1.52	0.89
2:BL:97:ILE:HA	2:BL:100:ILE:HD12	1.54	0.89
4:BH:234:TYR:O	4:BH:238:LYS:HG2	1.72	0.89
5:A5:25:VAL:CG1	9:A5:102:BCL:H191	2.03	0.88
5:AA:47:LEU:HD12	5:A9:43:ASP:HB2	1.55	0.88
6:AJ:32:VAL:HG11	9:AJ:101:BCL:HBA2	1.54	0.88
3:AM:206:ILE:HA	9:AM:402:BCL:HMA1	1.54	0.88
3:AM:109:LEU:HB2	5:AQ:42:THR:HB	1.54	0.88
5:AS:36:HIS:CE1	9:AT:101:BCL:HMD1	2.08	0.88
5:B1:11:ILE:CA	14:B1:103:CRT:H82	2.00	0.88
2:AL:22:LEU:HB2	5:A7:19:ARG:HB3	1.53	0.88
5:AF:28:GLN:HB3	9:AF:102:BCL:H11	1.52	0.88
9:AF:102:BCL:HBA2	9:AG:101:BCL:OBD	1.73	0.88
2:AL:52:TRP:NE1	5:A9:38:ILE:HA	1.87	0.88
3:AM:175:VAL:HA	3:AM:185:TRP:CD1	2.08	0.88
5:AS:46:TRP:HZ3	9:AS:103:BCL:HBC3	1.37	0.88
3:BM:156:PHE:HZ	9:BM:402:BCL:HBD	1.37	0.88
6:BV:43:ARG:NH1	5:BW:55:TYR:HB3	1.87	0.88
9:AQ:102:BCL:OBD	6:AR:32:VAL:HG13	1.73	0.88
9:AU:102:BCL:H2A	9:AU:102:BCL:O1D	1.73	0.88
6:BZ:10:THR:HG22	6:BZ:11:ASP:H	1.38	0.88
5:B1:44:LEU:HD13	6:B2:43:ARG:HD2	1.54	0.88
6:BJ:10:THR:HG22	6:BJ:11:ASP:H	1.38	0.88
14:AA:102:CRT:H83	6:AE:20:ILE:HD13	1.54	0.88
9:BY:102:BCL:C1D	9:BZ:101:BCL:HMD2	2.03	0.88
6:A8:44:PRO:O	5:A9:52:PRO:HD2	1.72	0.88
5:AO:13:LEU:HD23	5:AO:14:ILE:H	1.36	0.88
5:AS:10:LYS:HB3	14:AS:104:CRT:C1M	2.03	0.88
9:AV:102:BCL:HMA1	9:AW:101:BCL:HMA1	1.54	0.88
5:AW:21:LEU:O	5:AW:25:VAL:HG23	1.74	0.88
4:AH:176:GLU:HG3	4:AH:178:GLN:HG2	1.55	0.88
6:A0:40:TRP:HH2	6:A0:46:LEU:HG	1.37	0.88
5:AD:40:LEU:HD11	5:AD:47:LEU:HD23	1.53	0.88
5:A1:11:ILE:HG22	14:A1:103:CRT:H10	1.54	0.88
14:AG:102:CRT:H342	9:AI:102:BCL:HBA1	1.54	0.88
9:AZ:101:BCL:H203	6:A2:38:LEU:HD21	1.54	0.88
6:B4:13:GLU:HA	6:B4:16:GLU:CG	2.03	0.88
5:BU:12:TRP:CD1	6:BV:17:PHE:HD2	1.92	0.88
9:AF:102:BCL:CED	6:AG:31:LEU:HD22	2.04	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:87:ALA:N	2:AL:96:GLN:HE22	1.72	0.88
2:AL:150:ALA:HB3	2:AL:153:HIS:HB2	1.53	0.88
5:A1:8:LEU:HG	6:A2:18:HIS:NE2	1.89	0.88
5:AA:36:HIS:CE1	9:AB:101:BCL:HMD1	2.08	0.88
9:AK:102:BCL:HMD2	9:AN:101:BCL:CHD	2.04	0.88
5:AS:34:LEU:HA	15:AS:101:PEF:C45	2.03	0.88
5:B1:13:LEU:HD12	14:B1:103:CRT:H23	0.88	0.88
6:AZ:46:LEU:HD22	6:A2:42:TYR:OH	1.73	0.87
5:A5:4:MET:CE	6:A8:24:SER:HB3	2.04	0.87
6:AT:29:PHE:CD1	9:AT:101:BCL:H11	2.08	0.87
14:AX:102:CRT:H342	9:AY:102:BCL:H3A	1.55	0.87
5:AY:51:ILE:HB	5:AY:52:PRO:HA	1.56	0.87
5:BO:50:ASN:ND2	6:BP:43:ARG:HH22	1.71	0.87
14:BU:103:CRT:H343	9:BY:102:BCL:HBA1	1.54	0.87
5:BF:8:LEU:HD21	6:BJ:24:SER:OG	1.74	0.87
5:A1:8:LEU:HG	6:A2:18:HIS:CE1	2.08	0.87
1:AC:153:TYR:CD1	1:AC:157:ARG:HA	2.10	0.87
9:B8:101:BCL:HMC3	9:B9:102:BCL:CBB	2.03	0.87
5:BS:4:MET:SD	6:BV:24:SER:HB3	2.14	0.87
5:A3:50:ASN:HB2	5:A5:59:GLY:O	1.73	0.87
6:AT:18:HIS:O	6:AT:22:MET:HG2	1.73	0.87
4:BH:35:LYS:NZ	4:BH:57:GLY:HA3	1.88	0.87
5:A7:2:PHE:N	5:A7:5:ASN:CB	2.37	0.87
2:AL:68:TYR:HA	2:AL:73:ILE:HD11	1.56	0.87
2:AL:182:HIS:N	2:AL:256:CYS:SG	2.47	0.87
3:BM:59:LEU:HD11	5:BQ:29:ILE:HG21	1.57	0.87
14:BU:103:CRT:C14	6:BX:24:SER:HB3	2.04	0.87
5:BW:36:HIS:CE1	9:BX:101:BCL:HMD1	2.10	0.87
5:BY:55:TYR:HD1	5:BY:56:GLN:H	1.20	0.87
2:AL:177:HIS:HB3	3:AM:183:LEU:HD22	1.56	0.87
5:BQ:43:ASP:OD1	5:BQ:44:LEU:HG	1.73	0.87
4:AH:35:LYS:NZ	4:AH:57:GLY:HA3	1.89	0.87
14:AN:102:CRT:H342	9:AO:102:BCL:HBA1	1.57	0.87
6:BZ:46:LEU:CD2	6:B2:42:TYR:CZ	2.57	0.87
2:AL:120:LEU:HD21	3:AM:250:LEU:HD23	1.54	0.87
6:AT:17:PHE:CD1	14:AT:102:CRT:H6	2.10	0.87
1:BC:291:LEU:O	1:BC:296:LYS:HE3	1.74	0.87
9:BD:102:BCL:CHD	9:BE:101:BCL:HMD2	2.04	0.87
5:AS:50:ASN:CA	5:AU:60:LYS:HA	2.05	0.87
5:A5:21:LEU:HD11	9:A5:102:BCL:C14	2.05	0.87
9:A6:101:BCL:C1	9:A6:101:BCL:CGA	2.53	0.87
5:AO:13:LEU:O	6:AP:7:THR:CA	2.22	0.87

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AW:12:TRP:HZ2	6:AX:21:PHE:CG	1.93	0.87
5:B1:13:LEU:CB	14:B1:103:CRT:H1M3	2.04	0.87
4:BH:94:PRO:HG2	6:B0:8:GLY:HA3	1.54	0.87
5:A7:36:HIS:CB	14:A7:102:CRT:C2M	2.53	0.87
5:A5:4:MET:CG	6:A8:24:SER:HA	2.04	0.87
14:AR:102:CRT:H342	9:AS:103:BCL:HBA1	1.57	0.87
4:BH:113:PRO:HG2	4:BH:248:LEU:HD22	1.57	0.87
9:A9:102:BCL:CHD	9:A0:102:BCL:HMD2	2.04	0.86
5:B9:36:HIS:NE2	9:B0:102:BCL:HMD1	1.90	0.86
5:B7:12:TRP:HZ3	5:B7:17:PRO:HB3	1.40	0.86
5:BI:35:ILE:HA	5:BI:38:ILE:HG22	1.57	0.86
6:BP:32:VAL:HG11	9:BP:101:BCL:HBA2	1.57	0.86
5:A7:44:LEU:CD2	5:A7:46:TRP:HE3	1.87	0.86
5:A7:46:TRP:CH2	9:A7:103:BCL:HBC3	2.10	0.86
2:BL:202:LEU:HD21	2:BL:221:GLU:HB3	1.54	0.86
6:BT:18:HIS:O	6:BT:22:MET:HG2	1.74	0.86
6:BZ:46:LEU:CD2	6:B2:42:TYR:OH	2.20	0.86
3:BM:41:GLY:HA3	3:BM:46:ALA:HB2	1.57	0.86
9:AK:102:BCL:ND	9:AN:101:BCL:HMD2	1.89	0.86
4:BH:54:LYS:HE3	4:BH:54:LYS:HA	1.56	0.86
3:AM:70:ILE:HG21	3:AM:118:ALA:HB2	1.58	0.86
6:AZ:45:TRP:CZ3	9:AZ:101:BCL:HAC2	2.10	0.86
6:B2:20:ILE:HG12	14:B2:102:CRT:H81	1.56	0.86
1:BC:167:VAL:HG21	1:BC:298:PRO:HD2	1.57	0.86
4:AH:124:ASP:HB2	4:AH:233:LEU:HD21	1.55	0.86
9:A0:102:BCL:HMB2	9:A0:102:BCL:C14	2.05	0.86
6:A0:45:TRP:NE1	9:A0:102:BCL:C19	2.37	0.86
5:AA:18:ARG:H	5:AA:18:ARG:HD2	1.41	0.86
6:AB:20:ILE:HD12	14:AB:102:CRT:C10	2.05	0.86
3:AM:63:PHE:CE2	3:AM:124:LEU:HD12	2.11	0.86
6:AN:41:LEU:HD23	6:AN:41:LEU:C	1.95	0.86
5:AW:26:ALA:O	5:AW:29:ILE:HG22	1.74	0.86
5:AW:9:TYR:HA	6:AX:18:HIS:CE1	2.11	0.86
1:BC:275:HIS:O	1:BC:279:ILE:HG13	1.75	0.86
6:BE:33:VAL:HG23	9:BE:101:BCL:C14	2.05	0.86
14:BS:103:CRT:C34	9:BU:102:BCL:HBA1	2.05	0.86
6:A0:45:TRP:HE1	9:A0:102:BCL:H191	1.38	0.86
5:A1:12:TRP:CZ2	6:A2:21:PHE:CD2	2.64	0.86
2:AL:177:HIS:NE2	9:AL:301:BCL:HMC2	1.91	0.86
4:BH:35:LYS:HZ3	4:BH:57:GLY:HA3	1.39	0.86
4:BH:123:CYS:HA	4:BH:232:THR:HA	1.55	0.86
5:A5:43:ASP:CB	5:A7:47:LEU:HB3	2.04	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:44:LEU:HB2	6:AG:43:ARG:NH1	1.89	0.86
5:AF:44:LEU:HD22	6:AG:43:ARG:HD2	1.57	0.86
5:AI:7:ASN:HD22	6:AN:20:ILE:HG13	1.40	0.86
9:B2:101:BCL:CHB	9:B3:102:BCL:HMB3	2.05	0.86
5:BA:15:LEU:HD21	5:BD:21:LEU:HD23	1.56	0.86
9:BE:101:BCL:HMA1	9:BF:102:BCL:HMA1	1.58	0.86
2:BL:150:ALA:HB3	2:BL:153:HIS:HB2	1.58	0.86
3:BM:235:ILE:H	3:BM:235:ILE:HD12	1.37	0.86
5:BU:12:TRP:CD2	6:BV:17:PHE:CE2	2.64	0.86
1:AC:135:ARG:HH12	1:AC:332:LYS:HA	1.39	0.86
6:A4:13:GLU:HA	6:A4:16:GLU:HG2	1.56	0.85
2:AL:97:ILE:HA	2:AL:100:ILE:HD12	1.58	0.85
5:AQ:35:ILE:HA	5:AQ:38:ILE:HG22	1.56	0.85
5:AU:18:ARG:O	5:AU:22:VAL:HG12	1.75	0.85
5:BY:43:ASP:HA	5:B1:48:ASP:HB3	1.58	0.85
6:A0:10:THR:HG22	6:A0:11:ASP:H	1.40	0.85
5:B7:36:HIS:CB	14:B7:102:CRT:H2M3	2.06	0.85
2:BL:10:TYR:HA	4:BH:112:GLY:HA2	1.56	0.85
4:BH:151:PRO:HA	4:BH:154:MET:SD	2.16	0.85
5:B1:50:ASN:HB3	5:B3:60:LYS:HA	1.57	0.85
9:AA:101:BCL:CHD	9:AB:101:BCL:HMD2	2.06	0.85
1:AC:166:TRP:HE1	1:AC:305:VAL:C	1.79	0.85
1:AC:167:VAL:HG23	1:AC:301:ASP:OD2	1.77	0.85
5:AF:36:HIS:CE1	9:AG:101:BCL:HMD1	2.11	0.85
5:AI:27:PHE:HE2	5:AK:29:ILE:HD11	1.40	0.85
5:B5:30:VAL:HG13	5:B5:31:LEU:H	1.40	0.85
1:BC:285:TRP:CZ3	1:BC:302:PRO:HD3	2.11	0.85
1:BC:97:VAL:HG21	1:BC:131:PHE:CZ	2.11	0.85
3:BM:60:SER:HA	3:BM:128:LEU:HD23	1.56	0.85
5:AS:34:LEU:HA	15:AS:101:PEF:H453	1.56	0.85
5:AW:7:ASN:HD22	5:AW:7:ASN:H	1.25	0.85
1:BC:167:VAL:HG23	1:BC:301:ASP:OD2	1.76	0.85
9:BV:101:BCL:CMA	9:BW:102:BCL:HMA1	2.07	0.85
6:AP:10:THR:HG22	6:AP:11:ASP:H	1.41	0.85
14:A2:102:CRT:C2M	5:A3:40:LEU:CD1	2.52	0.85
6:A4:31:LEU:O	6:A4:34:ILE:HG22	1.77	0.85
1:AC:311:HIS:HA	1:AC:317:PRO:HG3	1.59	0.85
3:AM:241:ARG:HG2	3:AM:242:GLY:H	1.42	0.85
9:BN:101:BCL:C1B	9:BO:102:BCL:HMB3	2.05	0.85
6:B0:10:THR:HG22	6:B0:11:ASP:H	1.40	0.85
6:BP:13:GLU:HA	6:BP:16:GLU:CD	1.97	0.85
5:A5:16:ASP:HB2	5:A5:19:ARG:CG	2.07	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:50:ASN:ND2	5:AF:51:ILE:HG12	1.90	0.85
1:BC:153:TYR:HB3	1:BC:323:MET:HE3	1.57	0.85
4:AH:114:ALA:HB2	4:AH:245:GLY:HA3	1.58	0.85
4:AH:151:PRO:HA	4:AH:154:MET:SD	2.17	0.85
2:AL:239:HIS:CD2	3:AM:223:ILE:HG13	2.12	0.85
2:AL:29:PRO:O	3:AM:254:TRP:HA	1.76	0.85
6:B2:13:GLU:HB3	14:B2:102:CRT:C3	2.07	0.85
2:BL:52:TRP:NE1	5:B9:38:ILE:HA	1.91	0.85
2:AL:253:SER:HB2	9:AL:301:BCL:H2A	1.59	0.85
5:AO:29:ILE:HA	9:AO:102:BCL:H12	1.58	0.85
14:AT:102:CRT:H342	9:AU:102:BCL:CBA	2.07	0.85
4:BH:168:SER:HB3	4:BH:183:GLU:HB3	1.59	0.85
2:BL:59:THR:HB	2:BL:63:SER:HB3	1.57	0.85
5:A3:53:VAL:HA	5:A3:55:TYR:CE2	2.12	0.85
9:BZ:101:BCL:HBB1	9:B1:102:BCL:HMC3	1.59	0.85
9:BA:101:BCL:C1D	9:BB:101:BCL:HMD2	2.06	0.85
9:BA:101:BCL:CHD	9:BB:101:BCL:HMD2	2.06	0.85
4:BH:171:TRP:HB2	4:BH:181:TYR:HB2	1.59	0.85
1:BC:153:TYR:CD1	1:BC:157:ARG:HA	2.11	0.85
5:A1:50:ASN:ND2	5:A1:51:ILE:HG23	1.92	0.84
6:AB:17:PHE:HE1	14:AB:102:CRT:H9	1.42	0.84
4:AH:77:VAL:O	4:AH:80:ARG:HD3	1.76	0.84
6:AP:38:LEU:O	6:AP:41:LEU:CD2	2.22	0.84
5:AS:10:LYS:HB3	14:AS:104:CRT:O1	1.77	0.84
5:B7:27:PHE:CE1	5:B9:29:ILE:HD11	2.12	0.84
1:BC:280:ASN:O	1:BC:285:TRP:HB2	1.76	0.84
3:BM:253:ARG:HA	3:BM:257:GLY:O	1.77	0.84
1:AC:53:ILE:HG12	1:AC:319:TYR:CE1	2.12	0.84
9:A5:102:BCL:H143	14:A7:102:CRT:H132	1.58	0.84
2:AL:206:VAL:O	2:AL:209:PRO:HD3	1.77	0.84
2:AL:140:LEU:HD12	2:AL:257:ILE:HG21	1.59	0.84
5:BU:51:ILE:HB	5:BU:52:PRO:HA	1.59	0.84
6:A2:17:PHE:CD1	14:A2:102:CRT:C6	2.60	0.84
6:A2:41:LEU:HD23	6:A2:42:TYR:N	1.91	0.84
9:AN:101:BCL:C1B	9:AO:102:BCL:HMB3	2.06	0.84
6:B0:33:VAL:HG12	6:B0:37:LEU:CD1	2.07	0.84
9:BO:102:BCL:ND	9:BP:101:BCL:HMD2	1.90	0.84
1:AC:164:TYR:HB3	1:AC:309:THR:HA	1.57	0.84
6:BB:40:TRP:HZ3	6:BB:45:TRP:H	1.24	0.84
5:B1:13:LEU:HB3	14:B1:103:CRT:C1M	2.07	0.84
3:BM:136:ARG:NH1	3:BM:136:ARG:HA	1.92	0.84
5:BO:38:ILE:HG13	5:BO:39:VAL:N	1.93	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:BZ:44:PRO:HG2	5:B1:55:TYR:OH	1.78	0.84
5:AY:18:ARG:O	5:AY:22:VAL:HG12	1.76	0.84
5:A1:12:TRP:NE1	6:A2:18:HIS:HA	1.93	0.84
5:B7:36:HIS:HB2	14:B7:102:CRT:H2M3	1.59	0.84
1:BC:263:THR:HG22	3:BM:311:VAL:HB	1.60	0.84
5:A7:12:TRP:CZ3	5:A7:17:PRO:HB3	2.11	0.84
2:AL:29:PRO:HB2	3:AM:253:ARG:HD2	1.60	0.84
5:B3:36:HIS:NE2	9:B4:101:BCL:HMD1	1.91	0.84
5:B3:43:ASP:CB	5:B5:47:LEU:HD13	2.06	0.84
9:BN:101:BCL:CHC	9:BO:102:BCL:HBB3	2.08	0.84
9:BO:102:BCL:HBC2	9:BP:101:BCL:HHD	1.59	0.84
14:BP:102:CRT:H2M3	5:BQ:36:HIS:HB2	1.58	0.84
1:AC:20:LEU:HD22	1:AC:21:LEU:H	1.42	0.84
5:B1:40:LEU:HD12	5:B1:45:ASN:HA	1.57	0.84
9:B6:101:BCL:HMC3	9:B7:103:BCL:HBB1	1.58	0.84
1:BC:20:LEU:HD22	1:BC:21:LEU:N	1.92	0.84
5:BO:43:ASP:HB2	5:BQ:47:LEU:HB3	1.60	0.84
5:AD:15:LEU:HB3	5:AD:20:VAL:HG21	1.58	0.84
5:A1:11:ILE:HG22	14:A1:103:CRT:H81	1.60	0.84
9:AF:102:BCL:ND	9:AG:101:BCL:HMD2	1.91	0.84
4:AH:31:ARG:HB3	4:AH:59:PRO:HG3	1.60	0.84
3:AM:215:LEU:HD21	13:AM:405:MQ8:H193	1.59	0.84
9:AS:103:BCL:C1D	9:AT:101:BCL:HMD2	2.07	0.84
6:B4:31:LEU:O	6:B4:34:ILE:HG22	1.76	0.84
5:B7:44:LEU:HD22	5:B7:46:TRP:HE3	1.43	0.84
14:BF:103:CRT:H132	9:BI:102:BCL:H143	1.59	0.84
6:BJ:32:VAL:HG11	9:BJ:101:BCL:HBA2	1.59	0.84
2:AL:148:MET:HB3	2:AL:153:HIS:ND1	1.91	0.84
5:AF:52:PRO:HB2	5:AF:55:TYR:HE1	1.41	0.84
1:AC:73:SER:HB3	1:AC:83:LYS:HB2	1.60	0.84
2:BL:22:LEU:HB2	5:B7:19:ARG:CB	2.08	0.84
4:AH:171:TRP:HB2	4:AH:181:TYR:HB2	1.60	0.84
5:BD:46:TRP:CZ3	9:BD:102:BCL:HBC3	2.13	0.84
2:BL:279:PRO:HG3	5:BY:41:SER:HB2	1.59	0.84
5:BS:40:LEU:HD11	5:BS:47:LEU:HD23	1.60	0.84
5:AY:13:LEU:HD23	5:AY:13:LEU:N	1.93	0.84
5:BO:7:ASN:HB3	6:BR:20:ILE:HD12	1.57	0.84
6:AJ:10:THR:HB	6:AJ:13:GLU:OE2	1.76	0.84
5:A5:14:ILE:HG21	5:A7:18:ARG:HG2	1.61	0.83
3:AM:63:PHE:HE2	3:AM:124:LEU:HD12	1.43	0.83
14:AW:102:CRT:C18	9:AY:102:BCL:H8	2.08	0.83
5:BY:20:VAL:HB	9:B1:102:BCL:H201	1.60	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:BB:22:MET:O	6:BB:26:TYR:CE1	2.31	0.83
2:BL:178:TYR:HD2	2:BL:269:PRO:HG3	1.43	0.83
2:BL:177:HIS:HB3	3:BM:183:LEU:CD2	2.08	0.83
2:AL:230:GLY:HA2	3:AM:51:ILE:HB	1.60	0.83
3:AM:202:HIS:O	3:AM:206:ILE:HG13	1.78	0.83
3:AM:63:PHE:CZ	5:AQ:33:LEU:HD23	2.13	0.83
6:B0:17:PHE:HB2	14:B0:101:CRT:C6	2.08	0.83
5:B3:19:ARG:O	5:B3:23:SER:HB2	1.76	0.83
5:B1:52:PRO:HD2	5:B1:55:TYR:HE2	1.43	0.83
9:AA:101:BCL:CHB	9:A0:102:BCL:HMB3	2.08	0.83
5:A7:43:ASP:HA	5:A9:48:ASP:HB3	1.58	0.83
5:AY:28:GLN:HB3	9:AY:102:BCL:H2	1.60	0.83
9:AY:102:BCL:C1D	9:AZ:101:BCL:HMD2	2.08	0.83
6:BX:45:TRP:O	6:BX:46:LEU:HG	1.77	0.83
1:AC:142:LYS:HA	1:AC:145:VAL:HG23	1.58	0.83
5:A1:10:LYS:HB2	14:A1:103:CRT:H83	1.58	0.83
3:AM:159:VAL:HA	3:AM:163:ILE:HG22	1.61	0.83
5:AY:36:HIS:NE2	9:AZ:101:BCL:HMD1	1.93	0.83
9:BD:102:BCL:C1D	9:BE:101:BCL:CMD	2.56	0.83
14:BG:102:CRT:H2M3	5:BI:36:HIS:HB3	1.60	0.83
9:BS:102:BCL:C1D	9:BT:101:BCL:HMD2	2.07	0.83
5:A3:13:LEU:HD12	14:A7:102:CRT:H1M3	1.58	0.83
3:BM:187:ALA:HA	9:BM:402:BCL:CBC	2.08	0.83
6:BP:21:PHE:CE1	14:BP:102:CRT:H16	2.13	0.83
5:BQ:42:THR:HG23	5:BQ:43:ASP:H	1.40	0.83
5:A3:11:ILE:HG12	14:A7:102:CRT:C8	2.07	0.83
3:AM:202:HIS:CE1	3:AM:206:ILE:HD11	2.14	0.83
3:AM:265:ILE:HG22	3:AM:266:HIS:H	1.43	0.83
5:AS:34:LEU:CB	15:AS:101:PEF:H442	2.08	0.83
3:BM:204:LEU:HD12	3:BM:279:THR:HG21	1.59	0.83
4:BH:204:LYS:H	4:BH:204:LYS:HD2	1.40	0.83
9:A3:103:BCL:O1D	9:A3:103:BCL:H2A	1.78	0.83
3:BM:202:HIS:O	3:BM:206:ILE:HG13	1.78	0.83
9:BQ:103:BCL:C1D	9:BQ:104:BCL:CMD	2.56	0.83
6:BN:20:ILE:HD12	6:BN:20:ILE:H	1.44	0.83
9:A8:101:BCL:C1C	9:A9:102:BCL:HBB3	2.09	0.83
5:AW:46:TRP:CH2	9:AW:101:BCL:H2C	2.13	0.83
6:B4:13:GLU:CA	6:B4:16:GLU:HG2	2.09	0.83
14:A2:102:CRT:H31	9:A3:103:BCL:HBA1	1.60	0.83
5:AF:8:LEU:HA	6:AJ:20:ILE:HD11	1.61	0.83
3:AM:66:VAL:HG11	3:AM:121:PHE:HD2	1.42	0.83
5:AS:10:LYS:HD3	14:AS:104:CRT:H1M1	1.59	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:B2:10:THR:HG22	6:B2:13:GLU:OE1	1.79	0.83
3:BM:160:LEU:HD23	3:BM:284:ILE:HG21	1.61	0.83
5:BO:29:ILE:HB	9:BO:102:BCL:H43	1.59	0.83
9:A1:102:BCL:C9	14:A2:102:CRT:H183	2.08	0.83
5:A1:50:ASN:CG	5:A1:51:ILE:H	1.81	0.83
5:A1:15:LEU:HD23	5:A3:18:ARG:NH1	1.92	0.83
9:AG:101:BCL:C1B	9:AI:102:BCL:HMB3	2.09	0.83
2:AL:188:PHE:CE2	2:AL:248:SER:HB3	2.14	0.83
2:AL:275:TRP:O	2:AL:278:LEU:HG	1.78	0.83
3:AM:179:ILE:HG12	3:AM:180:PHE:H	1.41	0.83
9:AV:102:BCL:HMB2	9:AV:102:BCL:H8	1.61	0.83
6:AX:32:VAL:HG11	9:AX:101:BCL:HBA2	1.58	0.83
6:B0:33:VAL:HG22	9:B0:102:BCL:H143	1.59	0.83
9:A7:103:BCL:CGA	9:A7:103:BCL:C1	2.57	0.82
5:AI:44:LEU:HD13	6:AJ:43:ARG:HD3	1.61	0.82
6:BB:20:ILE:HD11	5:B9:8:LEU:HD23	1.61	0.82
9:BG:101:BCL:HMB3	9:BI:102:BCL:C1B	2.09	0.82
6:BJ:37:LEU:HD21	9:BJ:101:BCL:H151	1.61	0.82
5:BY:50:ASN:HD21	6:BZ:43:ARG:NH1	1.77	0.82
1:AC:81:VAL:HG11	1:AC:131:PHE:HB3	1.58	0.82
6:AE:21:PHE:CD1	6:AE:22:MET:N	2.47	0.82
6:BB:18:HIS:CE1	6:BB:22:MET:HB2	2.15	0.82
3:BM:186:THR:HA	9:BM:402:BCL:HMD2	1.59	0.82
5:BU:14:ILE:HD12	14:BU:103:CRT:C3	2.06	0.82
6:A2:17:PHE:HD1	14:A2:102:CRT:C6	1.93	0.82
9:A1:102:BCL:H92	14:A2:102:CRT:H183	1.59	0.82
9:AF:102:BCL:H2	6:AG:28:TRP:CH2	2.14	0.82
5:AS:40:LEU:HD11	5:AS:47:LEU:HD23	1.59	0.82
5:AU:36:HIS:CE1	9:AV:102:BCL:HMD1	2.14	0.82
14:BB:102:CRT:H342	9:BD:102:BCL:HBA1	1.60	0.82
3:BM:84:PHE:CZ	5:BW:37:MET:HG2	2.14	0.82
5:B9:13:LEU:O	6:B0:7:THR:HB	1.80	0.82
9:B3:102:BCL:HMD1	6:B4:36:HIS:CE1	2.15	0.82
5:BI:9:TYR:HB2	6:BJ:15:LYS:HA	1.58	0.82
5:BQ:43:ASP:HA	5:BS:47:LEU:O	1.78	0.82
5:B7:44:LEU:HD21	5:B7:46:TRP:HE3	1.43	0.82
1:BC:17:SER:HB3	3:BM:91:PHE:CZ	2.13	0.82
5:BS:4:MET:SD	5:BS:8:LEU:HD21	2.20	0.82
6:A2:46:LEU:HD22	6:A4:42:TYR:HE2	1.41	0.82
6:A8:43:ARG:NH2	5:A9:55:TYR:HB2	1.94	0.82
6:AG:45:TRP:O	6:AG:46:LEU:HB2	1.78	0.82
5:AI:39:VAL:HG11	9:AI:102:BCL:HBC1	1.59	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AU:18:ARG:HD2	5:AU:18:ARG:H	1.44	0.82
4:BH:195:LEU:HD12	4:BH:196:PRO:HD2	1.60	0.82
2:BL:17:LEU:HD11	2:BL:114:VAL:HB	1.60	0.82
1:AC:135:ARG:HG2	1:AC:330:LEU:HA	1.61	0.82
6:AG:33:VAL:O	6:AG:37:LEU:HB2	1.79	0.82
9:A1:102:BCL:C9	14:A2:102:CRT:C18	2.57	0.82
5:AF:11:ILE:HD12	5:AF:14:ILE:HD11	1.61	0.82
2:BL:158:GLY:HA3	2:BL:161:SER:HB3	1.60	0.82
3:AM:136:ARG:HA	3:AM:136:ARG:HH11	1.41	0.82
3:AM:140:LEU:HD23	3:AM:142:MET:HG3	1.59	0.82
5:AK:12:TRP:NE1	6:AN:17:PHE:HD2	1.78	0.82
9:B8:101:BCL:HMA1	9:B9:102:BCL:CMA	2.08	0.82
6:BB:22:MET:HG3	6:BB:26:TYR:CE1	2.14	0.82
5:BU:10:LYS:O	14:BU:103:CRT:C2	2.20	0.82
5:BW:49:ASP:CG	5:BW:50:ASN:H	1.83	0.82
6:BZ:46:LEU:HD21	6:B2:42:TYR:HE2	1.43	0.82
6:BR:10:THR:HG22	6:BR:11:ASP:H	1.45	0.82
5:A1:9:TYR:HA	6:A2:18:HIS:HD1	1.44	0.82
15:AH:301:PEF:H12	15:AH:301:PEF:H41	1.61	0.82
3:BM:7:ILE:HB	15:BM:407:PEF:N	1.93	0.82
9:BO:102:BCL:ND	9:BP:101:BCL:CMD	2.43	0.82
14:BP:102:CRT:H2M3	5:BQ:36:HIS:CB	2.09	0.82
5:BA:17:PRO:O	5:BA:21:LEU:HB2	1.79	0.82
14:A5:103:CRT:H14	5:A7:21:LEU:HD22	1.62	0.82
6:AB:17:PHE:CE1	14:AB:102:CRT:H9	2.15	0.82
1:AC:200:LEU:HD11	1:AC:238:ASN:ND2	1.94	0.82
4:AH:130:LEU:HG	4:AH:131:PRO:HD2	1.61	0.82
9:AJ:101:BCL:CHC	9:AK:102:BCL:HBB3	2.10	0.82
14:AW:102:CRT:C18	9:AY:102:BCL:H92	2.08	0.82
6:B2:21:PHE:CZ	9:B3:102:BCL:H203	2.14	0.82
5:BO:7:ASN:HD22	6:BR:20:ILE:HD12	1.45	0.82
5:AF:19:ARG:CZ	5:AI:18:ARG:HH21	1.92	0.82
6:BE:44:PRO:HG2	5:BF:55:TYR:OH	1.79	0.82
9:AZ:101:BCL:C20	6:A2:38:LEU:HD21	2.10	0.81
5:B9:12:TRP:HE1	6:B0:18:HIS:CB	1.92	0.81
5:BU:12:TRP:CD2	6:BV:17:PHE:HE2	1.98	0.81
3:BM:28:LEU:HB3	3:BM:29:PRO:HD2	1.60	0.81
5:A5:21:LEU:HD11	9:A5:102:BCL:H141	1.60	0.81
5:BY:50:ASN:HB3	5:B1:60:LYS:HA	1.62	0.81
5:B3:46:TRP:CZ3	9:B3:102:BCL:HBC3	2.14	0.81
3:BM:208:PHE:CZ	3:BM:275:LEU:HD13	2.15	0.81
5:BW:16:ASP:H	5:BW:19:ARG:HE	1.28	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AK:16:ASP:HB2	5:AK:19:ARG:HG2	1.60	0.81
1:BC:98:THR:O	1:BC:103:PRO:HD3	1.80	0.81
6:AG:28:TRP:NE1	6:AG:32:VAL:CG2	2.43	0.81
6:AT:45:TRP:CE3	9:AT:101:BCL:H2C	2.15	0.81
4:AH:47:GLU:HG3	5:AA:19:ARG:HA	1.61	0.81
9:AO:102:BCL:HBC2	9:AP:101:BCL:HHD	1.60	0.81
5:AW:2:PHE:HA	5:AW:5:ASN:ND2	1.94	0.81
5:B1:10:LYS:HD2	6:B4:20:ILE:HG13	1.62	0.81
14:B7:102:CRT:H342	9:B7:103:BCL:CBA	2.04	0.81
6:B6:40:TRP:CZ3	6:B6:44:PRO:HA	2.15	0.81
6:BG:23:GLN:O	6:BG:26:TYR:HB2	1.80	0.81
5:BO:20:VAL:O	5:BO:24:ILE:HG12	1.80	0.81
9:AK:102:BCL:HAC2	9:AN:101:BCL:HBC3	1.59	0.81
9:AX:101:BCL:C1	9:AX:101:BCL:CGA	2.58	0.81
3:AM:300:LYS:HA	3:AM:300:LYS:HE2	1.63	0.81
5:A5:4:MET:HE2	6:A8:24:SER:HB3	1.60	0.81
6:AE:21:PHE:HD1	6:AE:22:MET:N	1.78	0.81
2:BL:207:THR:HG21	3:BM:238:ILE:HG13	1.60	0.81
5:AA:46:TRP:HB2	6:A0:46:LEU:OXT	1.80	0.81
9:AV:102:BCL:H191	9:AW:101:BCL:HMC3	1.63	0.81
6:B0:21:PHE:HB2	14:B0:101:CRT:C11	2.11	0.81
5:B3:11:ILE:HA	14:B7:102:CRT:H82	1.61	0.81
5:B9:32:GLY:HA3	9:B9:102:BCL:O1A	1.80	0.81
6:BB:22:MET:O	6:BB:26:TYR:CD1	2.33	0.81
3:BM:159:VAL:HG11	3:BM:281:GLY:O	1.80	0.81
5:BD:9:TYR:CE1	6:BE:11:ASP:HB3	2.16	0.81
2:AL:207:THR:HG21	3:AM:238:ILE:HG13	1.60	0.81
2:AL:203:ILE:CG2	3:AM:266:HIS:HD1	1.88	0.81
5:BF:4:MET:HG2	6:BJ:23:GLN:CG	2.03	0.81
3:AM:301:HIS:ND1	4:AH:8:TYR:HB3	1.96	0.81
5:B9:35:ILE:HG21	9:B0:102:BCL:C4D	2.10	0.81
9:B9:102:BCL:C1D	9:B0:102:BCL:HMD2	2.10	0.81
3:BM:260:VAL:HG12	4:BH:34:ASP:HB3	1.62	0.81
9:BG:101:BCL:C1B	9:BI:102:BCL:HMB3	2.11	0.81
5:BU:14:ILE:H	14:BU:103:CRT:H22A	1.44	0.81
4:AH:159:LEU:HD22	4:AH:254:ARG:HH22	1.41	0.81
4:BH:124:ASP:HB2	4:BH:233:LEU:HD21	1.62	0.81
3:AM:299:VAL:HB	3:AM:304:ALA:HB3	1.62	0.81
5:A5:12:TRP:HZ3	5:A5:17:PRO:HA	1.45	0.81
5:AF:44:LEU:HD12	5:AF:44:LEU:O	1.81	0.81
5:AQ:44:LEU:HD12	5:AQ:46:TRP:HE3	1.46	0.81
1:BC:270:TRP:O	1:BC:273:ILE:HD12	1.80	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:BM:161:GLY:O	3:BM:165:PRO:HD2	1.81	0.81
9:AE:101:BCL:CHB	9:AF:102:BCL:HMB3	2.10	0.81
3:AM:60:SER:HA	3:AM:128:LEU:HD23	1.63	0.81
5:AO:50:ASN:CG	6:AP:43:ARG:HH22	1.84	0.81
6:B2:12:ASP:HA	6:B2:15:LYS:HE2	1.61	0.81
9:B8:101:BCL:C1C	9:B9:102:BCL:HBB3	2.11	0.81
4:BH:69:LEU:HB3	4:BH:70:PRO:HD2	1.62	0.81
3:BM:178:GLY:O	3:BM:182:HIS:HB3	1.81	0.81
6:BV:20:ILE:HG21	14:BV:102:CRT:C6	2.11	0.81
5:BO:13:LEU:HD23	5:BO:13:LEU:O	1.79	0.81
5:AD:16:ASP:OD2	5:AD:18:ARG:HG2	1.81	0.81
5:BY:16:ASP:HB3	5:BY:18:ARG:HE	1.44	0.81
5:BI:18:ARG:NH1	5:BI:18:ARG:HB3	1.95	0.81
5:A1:15:LEU:HD23	5:A3:18:ARG:HH12	1.45	0.80
5:A7:44:LEU:HD21	5:A7:46:TRP:HE3	1.45	0.80
3:AM:260:VAL:HG12	4:AH:34:ASP:HB3	1.61	0.80
5:B3:8:LEU:HD23	6:B6:20:ILE:HD11	1.62	0.80
6:BV:20:ILE:CG2	14:BV:102:CRT:C7	2.58	0.80
1:AC:242:SER:O	1:AC:313:ALA:HA	1.80	0.80
2:AL:203:ILE:HG13	3:AM:266:HIS:CE1	2.16	0.80
6:AN:29:PHE:O	6:AN:33:VAL:HB	1.79	0.80
9:AO:102:BCL:C1D	9:AP:101:BCL:CMD	2.59	0.80
5:AS:34:LEU:CD1	15:AS:101:PEF:H442	2.12	0.80
5:AA:32:GLY:N	9:AB:101:BCL:HED2	1.95	0.80
5:AO:31:LEU:O	5:AO:35:ILE:HG12	1.81	0.80
14:B2:102:CRT:C2M	5:B3:40:LEU:HD11	2.12	0.80
6:B4:32:VAL:HG11	9:B4:101:BCL:HBA2	1.61	0.80
5:A1:21:LEU:HD11	9:A1:102:BCL:C14	2.12	0.80
2:AL:227:ASP:O	3:AM:51:ILE:HG13	1.81	0.80
9:AQ:102:BCL:C1D	9:AR:101:BCL:CMD	2.59	0.80
5:AS:37:MET:HG2	15:AS:101:PEF:C45	2.11	0.80
9:B7:103:BCL:C1D	9:B8:101:BCL:HMD2	2.11	0.80
6:AR:10:THR:HG22	6:AR:11:ASP:H	1.46	0.80
6:A2:17:PHE:HD1	14:A2:102:CRT:H6	1.41	0.80
5:A5:11:ILE:N	14:A5:103:CRT:H82	1.96	0.80
3:AM:175:VAL:HG13	3:AM:176:PRO:HD2	1.64	0.80
5:AO:50:ASN:CG	5:AO:51:ILE:H	1.82	0.80
5:BF:28:GLN:O	9:BG:101:BCL:HED1	1.80	0.80
14:BV:102:CRT:C2M	5:BW:37:MET:HB2	2.11	0.80
6:BX:45:TRP:CE3	9:BX:101:BCL:HAC2	2.17	0.80
2:AL:94:LEU:HA	2:AL:97:ILE:HD12	1.63	0.80
5:B1:19:ARG:HH22	5:B3:18:ARG:NH1	1.80	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:BH:54:LYS:HE2	5:BD:23:SER:HA	1.63	0.80
6:AE:23:GLN:HG3	6:AE:24:SER:H	1.46	0.80
5:AW:10:LYS:HB2	14:AW:102:CRT:H83	1.64	0.80
5:B1:18:ARG:HD2	5:B1:19:ARG:H	1.46	0.80
6:BB:22:MET:HG3	6:BB:26:TYR:OH	1.82	0.80
5:BF:29:ILE:HB	9:BF:102:BCL:H43	1.62	0.80
2:AL:266:ARG:CB	2:AL:266:ARG:HH11	1.92	0.80
5:A1:7:ASN:O	5:A1:10:LYS:HG3	1.81	0.80
5:A7:36:HIS:CE1	9:A8:101:BCL:HMD1	2.16	0.80
5:AS:34:LEU:HD13	15:AS:101:PEF:H442	1.63	0.80
5:BA:33:LEU:HA	14:B0:101:CRT:H2M3	1.64	0.80
2:BL:57:GLY:HA3	2:BL:66:GLN:HG2	1.64	0.80
3:BM:164:ARG:HB3	3:BM:165:PRO:HD3	1.63	0.80
14:BU:103:CRT:H2M1	5:BY:37:MET:CA	2.12	0.80
6:A4:10:THR:HG22	6:A4:11:ASP:H	1.47	0.80
6:A4:13:GLU:HA	6:A4:16:GLU:CG	2.12	0.80
9:A8:101:BCL:NC	9:A9:102:BCL:HBB3	1.97	0.80
3:AM:107:PRO:HG2	3:AM:113:GLY:HA2	1.63	0.80
3:AM:215:LEU:HD12	3:AM:218:MET:SD	2.22	0.80
5:AO:7:ASN:HB2	6:AR:20:ILE:HG12	1.62	0.80
5:AO:8:LEU:CD1	6:AP:18:HIS:HE1	1.94	0.80
5:AS:42:THR:HG21	5:AU:47:LEU:HB3	1.63	0.80
5:AW:34:LEU:HD21	14:AX:102:CRT:H403	1.62	0.80
6:BR:27:ALA:O	6:BR:31:LEU:HG	1.82	0.80
6:BR:46:LEU:HB3	6:BT:42:TYR:CE2	2.16	0.80
5:BY:45:ASN:HB3	5:BY:48:ASP:O	1.82	0.80
3:BM:11:VAL:HG13	4:BH:148:ASP:HB3	1.64	0.80
1:BC:73:SER:HB3	1:BC:83:LYS:HB2	1.62	0.80
6:A0:40:TRP:CH2	6:A0:46:LEU:HG	2.17	0.80
14:A2:102:CRT:C2M	5:A3:36:HIS:HB3	2.11	0.80
2:AL:140:LEU:HD23	2:AL:140:LEU:O	1.80	0.80
5:AO:14:ILE:HG23	5:AO:15:LEU:HG	1.64	0.80
5:AS:10:LYS:CD	14:AS:104:CRT:H1M1	2.12	0.80
5:BA:35:ILE:HD11	14:BB:102:CRT:H372	1.64	0.80
1:BC:203:PHE:HE1	1:BC:210:ILE:HG12	1.43	0.80
9:BK:102:BCL:HED1	6:BN:31:LEU:HB3	1.64	0.80
2:BL:87:ALA:H	2:BL:96:GLN:HE22	1.30	0.80
5:BW:29:ILE:HA	9:BW:102:BCL:H11	1.64	0.80
5:BO:18:ARG:HB2	5:BO:18:ARG:NH1	1.94	0.80
9:A3:104:BCL:H61	6:A4:29:PHE:HE1	1.43	0.79
5:A7:44:LEU:HD23	6:A8:43:ARG:HH11	1.47	0.79
3:AM:159:VAL:HA	3:AM:163:ILE:CG2	2.11	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AQ:43:ASP:HB2	5:AS:47:LEU:HD12	1.63	0.79
6:AT:32:VAL:HG21	9:AT:101:BCL:HBA2	1.63	0.79
6:B2:21:PHE:HE1	14:B2:102:CRT:C16	1.88	0.79
5:B3:13:LEU:HB2	14:B7:102:CRT:C2	2.12	0.79
6:B4:10:THR:HG22	6:B4:11:ASP:H	1.46	0.79
5:B5:19:ARG:O	5:B5:23:SER:HB2	1.83	0.79
5:B7:12:TRP:CZ3	5:B7:17:PRO:HB3	2.17	0.79
5:B7:46:TRP:CD1	5:B7:47:LEU:HD22	2.16	0.79
1:AC:164:TYR:CB	1:AC:309:THR:HA	2.12	0.79
6:A6:40:TRP:CZ3	6:A6:44:PRO:HA	2.17	0.79
5:AS:34:LEU:HB2	15:AS:101:PEF:H442	1.64	0.79
6:AE:30:GLY:O	6:AE:33:VAL:HG12	1.81	0.79
6:AJ:27:ALA:O	6:AJ:31:LEU:HG	1.82	0.79
2:AL:223:THR:HA	2:AL:226:ARG:HB3	1.65	0.79
9:AW:101:BCL:CHD	9:AX:101:BCL:HMD2	2.12	0.79
9:BA:101:BCL:HBB3	9:B0:102:BCL:CHC	2.13	0.79
6:B2:20:ILE:CG2	14:B2:102:CRT:C8	2.60	0.79
5:BA:44:LEU:HD13	6:BB:43:ARG:NH1	1.97	0.79
2:BL:113:GLU:HB3	2:BL:127:PRO:HG3	1.62	0.79
6:BP:20:ILE:HD13	14:BP:102:CRT:C5	2.12	0.79
5:BQ:26:ALA:O	5:BQ:29:ILE:HG22	1.82	0.79
4:AH:121:LYS:HE3	4:BH:72:ASN:O	1.81	0.79
6:AE:10:THR:HG22	6:AE:11:ASP:H	1.47	0.79
1:BC:311:HIS:HA	1:BC:317:PRO:HG3	1.61	0.79
5:AI:26:ALA:O	5:AI:29:ILE:HG22	1.82	0.79
5:AQ:14:ILE:O	5:AS:18:ARG:CZ	2.31	0.79
5:B7:36:HIS:HB3	14:B7:102:CRT:H391	1.62	0.79
6:B2:20:ILE:HG23	14:B2:102:CRT:C9	2.12	0.79
9:BG:101:BCL:HBB3	9:BI:102:BCL:C4B	2.12	0.79
9:A3:103:BCL:CHD	9:A3:104:BCL:HMD2	2.13	0.79
3:AM:240:HIS:HE1	4:AH:69:LEU:HD11	1.48	0.79
5:AU:19:ARG:NE	5:AW:18:ARG:NH2	2.31	0.79
9:BA:101:BCL:HBC1	9:BB:101:BCL:HBC3	1.62	0.79
14:BP:102:CRT:H342	9:BQ:103:BCL:CBA	2.06	0.79
5:BQ:44:LEU:HD12	5:BQ:46:TRP:HE3	1.46	0.79
5:BY:13:LEU:HD21	6:BZ:10:THR:O	1.82	0.79
1:AC:42:ASN:HA	2:AL:172:GLN:OE1	1.83	0.79
6:BE:10:THR:HG22	6:BE:11:ASP:H	1.45	0.79
9:A6:101:BCL:C1B	9:A7:103:BCL:HMB3	2.11	0.79
4:AH:5:ILE:HD11	5:AF:40:LEU:CD1	2.13	0.79
3:AM:206:ILE:HD12	9:AM:401:BCL:OBD	1.83	0.79
6:AT:29:PHE:CE1	9:AT:101:BCL:H11	2.17	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:BE:101:BCL:CBB	9:BE:101:BCL:HMB1	2.11	0.79
5:BF:44:LEU:HD12	5:BF:44:LEU:O	1.83	0.79
5:BA:8:LEU:HB3	6:BE:20:ILE:CG2	2.13	0.79
5:B3:51:ILE:HA	5:B3:53:VAL:H	1.47	0.79
5:A3:13:LEU:HD21	6:A4:10:THR:O	1.83	0.79
1:AC:122:TYR:HA	1:AC:125:VAL:HG23	1.65	0.79
1:AC:24:GLU:O	2:AL:263:PHE:HA	1.82	0.79
3:BM:63:PHE:HZ	5:BQ:33:LEU:HD23	1.45	0.79
5:B1:43:ASP:HB2	5:B3:47:LEU:HD12	1.65	0.79
6:A0:32:VAL:HG21	9:A0:102:BCL:CBA	2.12	0.79
5:A5:43:ASP:OD2	5:A7:47:LEU:HA	1.82	0.79
10:AM:403:BPH:C9	15:AM:409:PEF:H222	2.13	0.79
5:AO:51:ILE:HG12	5:AO:52:PRO:HD2	1.63	0.79
5:AU:46:TRP:HA	5:AU:49:ASP:OD1	1.83	0.79
5:B7:47:LEU:HD22	5:B7:47:LEU:H	1.48	0.79
3:BM:293:ASN:CG	3:BM:296:LEU:HG	2.03	0.79
5:AS:51:ILE:HB	5:AS:52:PRO:CA	2.12	0.79
1:BC:152:CYS:O	1:BC:156:HIS:HB2	1.83	0.79
1:AC:274:ARG:HA	1:AC:277:ARG:HG2	1.65	0.79
6:AP:34:ILE:HD13	6:AP:35:ALA:N	1.98	0.79
5:AW:36:HIS:NE2	9:AX:101:BCL:HMD1	1.98	0.79
5:B9:12:TRP:HE1	6:B0:18:HIS:HB2	1.47	0.79
5:BW:16:ASP:CB	5:BW:19:ARG:HE	1.93	0.79
1:AC:263:THR:HB	1:AC:264:PRO:HD2	1.65	0.78
6:AR:32:VAL:HG11	9:AR:101:BCL:HBA2	1.66	0.78
5:AS:13:LEU:CD1	14:AS:104:CRT:H32A	2.12	0.78
5:AW:9:TYR:HA	6:AX:18:HIS:CG	2.17	0.78
5:B9:35:ILE:HG13	9:B0:102:BCL:O1D	1.83	0.78
6:BN:17:PHE:CD1	14:BN:102:CRT:H6	2.18	0.78
5:BS:24:ILE:HD11	9:BU:102:BCL:H162	1.66	0.78
5:BO:4:MET:HB2	6:BR:23:GLN:HG3	1.62	0.78
5:AY:16:ASP:HB2	5:AY:19:ARG:NH2	1.98	0.78
6:AE:13:GLU:N	6:AE:13:GLU:OE1	2.17	0.78
6:B2:45:TRP:O	6:B2:46:LEU:HG	1.83	0.78
3:AM:84:PHE:CZ	5:AW:37:MET:HG2	2.18	0.78
6:BP:21:PHE:HE1	14:BP:102:CRT:H19	1.48	0.78
5:A1:5:ASN:CA	5:A1:8:LEU:HB3	2.13	0.78
9:A6:101:BCL:CHC	9:A7:103:BCL:HBB3	2.13	0.78
14:A5:103:CRT:H342	9:A9:102:BCL:CBA	2.13	0.78
1:AC:40:MET:SD	1:AC:252:ASN:HA	2.23	0.78
6:AE:45:TRP:O	6:AE:46:LEU:HG	1.84	0.78
3:AM:161:GLY:O	3:AM:165:PRO:HD2	1.82	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AM:159:VAL:HG11	3:AM:281:GLY:O	1.83	0.78
5:BY:10:LYS:HB2	14:B2:102:CRT:C8	2.13	0.78
9:BU:102:BCL:C2D	9:BV:101:BCL:HMD2	2.13	0.78
14:BU:103:CRT:H2M1	5:BY:37:MET:H	1.41	0.78
6:AG:29:PHE:O	6:AG:33:VAL:HG23	1.83	0.78
5:AD:10:LYS:HB3	14:AG:102:CRT:H5	1.64	0.78
2:AL:12:VAL:HG22	2:AL:13:ARG:N	1.98	0.78
5:AS:46:TRP:CZ3	9:AS:103:BCL:H2C	2.18	0.78
9:BQ:103:BCL:CBB	9:BQ:103:BCL:HMB1	2.14	0.78
5:BY:9:TYR:HA	6:BZ:18:HIS:CG	2.18	0.78
1:AC:315:ASN:OD1	1:AC:316:LYS:HG3	1.83	0.78
2:AL:190:PHE:HE1	3:AM:209:LEU:HD21	1.48	0.78
6:AR:21:PHE:HB2	14:AR:102:CRT:H14	1.66	0.78
5:B5:14:ILE:HG21	5:B7:18:ARG:HG2	1.65	0.78
1:BC:270:TRP:HA	1:BC:273:ILE:HD12	1.64	0.78
2:BL:8:LYS:HE2	4:BH:87:VAL:HG21	1.64	0.78
5:BI:50:ASN:CG	5:BI:51:ILE:H	1.85	0.78
9:BI:102:BCL:CHD	9:BJ:101:BCL:HMD2	2.13	0.78
9:A0:102:BCL:CBB	9:A0:102:BCL:H162	2.12	0.78
14:AB:102:CRT:H82	5:A9:10:LYS:HB2	1.65	0.78
1:AC:191:ALA:O	1:AC:192:TYR:HB2	1.83	0.78
4:AH:172:VAL:HG23	4:AH:173:ASP:N	1.98	0.78
2:AL:4:LEU:HD12	3:AM:250:LEU:HD12	1.66	0.78
3:AM:40:LEU:HD13	3:AM:48:ILE:HD11	1.63	0.78
6:AX:45:TRP:O	6:AX:46:LEU:HG	1.83	0.78
6:B4:22:MET:O	6:B4:26:TYR:HB2	1.84	0.78
1:BC:249:PHE:HD1	1:BC:250:CYS:SG	2.06	0.78
2:BL:38:VAL:HG23	2:BL:39:GLY:H	1.48	0.78
2:AL:266:ARG:HB2	2:AL:266:ARG:NH1	1.94	0.78
5:A1:27:PHE:HE2	5:A3:29:ILE:HD11	1.48	0.78
6:A6:44:PRO:CG	5:A7:52:PRO:HG2	2.11	0.78
5:AI:30:VAL:O	5:AI:33:LEU:HG	1.84	0.78
5:B5:11:ILE:N	14:B5:103:CRT:H82	1.99	0.78
1:BC:41:GLU:OE1	2:BL:153:HIS:CD2	2.37	0.78
5:BI:52:PRO:HG2	5:BI:55:TYR:HE2	1.48	0.78
2:BL:148:MET:HB3	2:BL:153:HIS:ND1	1.98	0.78
5:BW:24:ILE:HD11	9:BY:102:BCL:C18	2.13	0.78
5:B9:50:ASN:HD22	5:B9:51:ILE:HG12	1.47	0.78
5:A3:12:TRP:NE1	6:A4:18:HIS:HB2	1.99	0.78
2:AL:210:GLN:HB2	2:AL:213:GLU:HG3	1.65	0.78
3:AM:59:LEU:HD11	5:AQ:29:ILE:HD13	1.64	0.78
5:B5:16:ASP:HB2	5:B5:19:ARG:HG2	1.65	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:BE:101:BCL:NB	9:BF:102:BCL:HMB3	1.99	0.78
6:BE:30:GLY:O	6:BE:33:VAL:HG12	1.84	0.78
9:BI:102:BCL:HBC2	9:BJ:101:BCL:HHD	1.63	0.78
5:BS:24:ILE:HD13	9:BU:102:BCL:H202	1.64	0.78
5:A3:13:LEU:HB2	14:A7:102:CRT:C1M	2.13	0.78
5:AF:43:ASP:OD1	5:AF:44:LEU:HD23	1.84	0.78
9:AK:102:BCL:HAC2	9:AN:101:BCL:CBC	2.14	0.78
2:AL:12:VAL:HG22	2:AL:13:ARG:H	1.47	0.78
3:AM:250:LEU:HG	3:AM:254:TRP:HE1	1.48	0.78
14:AS:104:CRT:H181	9:AU:102:BCL:H92	1.63	0.78
6:B0:17:PHE:HE1	14:B0:101:CRT:H11	1.44	0.78
5:BU:21:LEU:HD11	6:BV:17:PHE:HE1	1.48	0.78
6:B6:40:TRP:HZ3	6:B6:44:PRO:HA	1.48	0.78
1:AC:274:ARG:HA	1:AC:277:ARG:CG	2.15	0.78
9:AI:102:BCL:CHD	9:AJ:101:BCL:HMD2	2.13	0.78
9:AK:102:BCL:HED1	6:AN:31:LEU:HB3	1.66	0.78
3:AM:70:ILE:CG2	3:AM:118:ALA:HB2	2.14	0.78
5:AS:10:LYS:O	14:AS:104:CRT:C3	2.32	0.78
5:AS:31:LEU:HD11	14:AT:102:CRT:H35	1.63	0.78
6:BE:32:VAL:HG21	9:BE:101:BCL:HBA2	1.66	0.78
2:BL:206:VAL:HG12	3:BM:142:MET:HE1	1.64	0.78
5:BO:9:TYR:HA	6:BP:18:HIS:CG	2.19	0.78
5:BO:4:MET:CB	6:BR:23:GLN:HB3	2.14	0.78
5:A5:36:HIS:CE1	9:A6:101:BCL:HMD1	2.19	0.77
1:AC:237:MET:SD	2:AL:174:LEU:HD23	2.23	0.77
5:AY:38:ILE:HD12	5:AY:39:VAL:N	1.99	0.77
5:BU:12:TRP:HZ2	6:BV:21:PHE:HD2	1.28	0.77
1:AC:203:PHE:CE1	1:AC:210:ILE:HG12	2.19	0.77
1:AC:296:LYS:HA	1:AC:301:ASP:O	1.83	0.77
6:AG:45:TRP:CD1	6:AG:46:LEU:N	2.52	0.77
1:BC:122:TYR:HA	1:BC:125:VAL:HG23	1.66	0.77
14:BO:103:CRT:H14	6:BR:21:PHE:HB2	1.67	0.77
5:BY:43:ASP:OD1	5:BY:44:LEU:HD23	1.83	0.77
6:B2:46:LEU:HD22	6:B4:42:TYR:HE2	1.48	0.77
5:A3:33:LEU:HD12	5:A3:34:LEU:N	1.98	0.77
3:AM:276:THR:HG22	3:AM:277:VAL:N	1.98	0.77
9:AZ:101:BCL:CHB	9:A1:102:BCL:HMB3	2.12	0.77
1:BC:234:GLY:O	1:BC:237:MET:HB2	1.83	0.77
2:BL:17:LEU:HG	2:BL:115:GLU:HG2	1.67	0.77
9:BL:301:BCL:HBB3	9:BL:303:BCL:HMD2	1.66	0.77
3:BM:179:ILE:N	3:BM:179:ILE:HD13	1.98	0.77
5:BO:49:ASP:OD1	5:BO:50:ASN:N	2.16	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:BQ:103:BCL:CBC	9:BQ:104:BCL:HBC3	2.12	0.77
5:BU:11:ILE:HG23	14:BU:103:CRT:H83	0.79	0.77
5:BU:18:ARG:H	5:BU:18:ARG:HD2	1.49	0.77
2:AL:178:TYR:HD2	2:AL:269:PRO:HG3	1.47	0.77
3:AM:159:VAL:HG13	3:AM:285:LEU:HD13	1.66	0.77
6:AZ:24:SER:O	6:AZ:27:ALA:HB3	1.85	0.77
5:BF:26:ALA:O	5:BF:29:ILE:HG22	1.83	0.77
2:BL:177:HIS:CD2	9:BL:301:BCL:HMC2	2.19	0.77
9:BL:303:BCL:HBC1	9:BM:402:BCL:HBD	1.64	0.77
5:BU:11:ILE:CB	14:BU:103:CRT:H83	2.13	0.77
6:A4:22:MET:O	6:A4:26:TYR:HB2	1.84	0.77
4:BH:128:GLU:H	4:BH:128:GLU:CD	1.88	0.77
5:AO:12:TRP:NE1	6:AP:18:HIS:CA	2.41	0.77
14:AS:104:CRT:H391	5:AW:36:HIS:HB3	1.66	0.77
5:BF:51:ILE:HG23	5:BF:52:PRO:HA	1.66	0.77
2:BL:199:HIS:HB2	2:BL:238:ILE:HG12	1.67	0.77
5:BU:46:TRP:CZ3	9:BU:102:BCL:HAC1	2.19	0.77
5:B5:5:ASN:HA	5:B5:8:LEU:CG	2.13	0.77
5:BO:4:MET:HE2	6:BR:23:GLN:HB2	1.65	0.77
5:B7:51:ILE:HD12	5:B7:51:ILE:O	1.84	0.77
2:AL:160:LEU:O	2:AL:163:LEU:HB2	1.85	0.77
3:AM:264:SER:O	3:AM:267:ARG:HB2	1.84	0.77
9:AW:101:BCL:O1A	9:AW:101:BCL:C1	2.33	0.77
6:BB:17:PHE:HE1	14:BB:102:CRT:H9	1.50	0.77
14:BA:102:CRT:H23	6:BE:16:GLU:HG3	1.64	0.77
2:BL:276:LEU:H	2:BL:276:LEU:HD22	1.49	0.77
2:BL:37:VAL:HG23	2:BL:38:VAL:H	1.50	0.77
4:BH:231:VAL:HG23	4:BH:235:GLU:HG3	1.66	0.77
2:AL:217:THR:H	2:AL:220:HIS:CE1	2.02	0.77
5:AY:9:TYR:HB2	6:AZ:15:LYS:HA	1.65	0.77
3:BM:200:PRO:O	3:BM:203:MET:HG2	1.83	0.77
5:BW:49:ASP:CG	5:BW:50:ASN:N	2.37	0.77
1:BC:221:SER:O	1:BC:223:PRO:HD3	1.84	0.77
6:A4:13:GLU:CA	6:A4:16:GLU:HG2	2.14	0.77
9:AD:102:BCL:CHD	9:AE:101:BCL:HMD2	2.14	0.77
5:AI:35:ILE:O	5:AI:39:VAL:HG23	1.83	0.77
9:AN:101:BCL:HMB3	9:AO:102:BCL:C1B	2.13	0.77
5:AS:30:VAL:CG2	15:AS:101:PEF:H391	2.09	0.77
5:AW:49:ASP:HB2	5:AY:56:GLN:CB	2.14	0.77
5:AY:44:LEU:HD22	6:AZ:43:ARG:HD2	1.67	0.77
5:B3:2:PHE:HE1	5:B3:5:ASN:ND2	1.82	0.77
6:BJ:17:PHE:O	6:BJ:20:ILE:HG22	1.85	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:BM:170:SER:C	3:BM:172:ALA:H	1.88	0.77
1:BC:94:MET:SD	7:BC:501:HEM:ND	2.57	0.77
6:AR:18:HIS:O	6:AR:22:MET:HB2	1.84	0.77
2:AL:96:GLN:O	2:AL:100:ILE:HG13	1.85	0.77
5:B7:15:LEU:HB3	5:B7:20:VAL:HG11	1.67	0.77
2:BL:177:HIS:NE2	9:BL:301:BCL:HMC2	2.00	0.77
3:BM:206:ILE:HD12	9:BM:401:BCL:OBD	1.85	0.77
5:BW:10:LYS:HB2	14:BW:103:CRT:H83	1.65	0.77
6:AZ:38:LEU:HD23	6:AZ:38:LEU:O	1.85	0.77
5:A1:10:LYS:HD3	14:A1:103:CRT:H22A	1.65	0.77
5:A1:21:LEU:HD11	9:A1:102:BCL:H141	1.67	0.77
6:A2:20:ILE:HD12	14:A2:102:CRT:C8	2.14	0.77
5:A7:7:ASN:HB2	5:A7:10:LYS:NZ	1.98	0.77
1:AC:175:PRO:CD	1:AC:179:LYS:HB2	2.14	0.77
9:AF:102:BCL:HED1	6:AG:31:LEU:HD22	1.67	0.77
9:BA:101:BCL:HMD1	6:BB:36:HIS:ND1	1.99	0.77
1:BC:267:THR:HG21	3:BM:314:VAL:CB	2.15	0.77
9:BN:101:BCL:HMB3	9:BO:102:BCL:CHB	2.15	0.77
5:BO:26:ALA:O	5:BO:29:ILE:HG22	1.85	0.77
14:BO:103:CRT:H2M3	5:BS:36:HIS:HB2	1.66	0.77
4:BH:168:SER:HB3	4:BH:183:GLU:CB	2.15	0.77
5:AF:11:ILE:H	14:AJ:102:CRT:H82	1.50	0.76
6:AG:38:LEU:HA	6:AG:41:LEU:HD12	1.67	0.76
5:AQ:26:ALA:O	5:AQ:29:ILE:HG22	1.85	0.76
6:B6:32:VAL:CG2	9:B6:101:BCL:HBA2	2.07	0.76
5:BA:36:HIS:CB	14:B0:101:CRT:H392	2.12	0.76
4:AH:31:ARG:NE	4:AH:31:ARG:HA	1.96	0.76
5:BF:44:LEU:HB2	6:BG:43:ARG:NH1	2.00	0.76
9:A1:102:BCL:CGA	9:A1:102:BCL:C1	2.63	0.76
9:A1:102:BCL:CHD	9:A2:101:BCL:HMD2	2.15	0.76
5:A3:44:LEU:O	5:A3:44:LEU:HD12	1.85	0.76
1:AC:225:SER:H	1:AC:228:GLN:NE2	1.84	0.76
3:AM:59:LEU:CD1	5:AQ:29:ILE:HG21	2.15	0.76
5:AQ:15:LEU:HD23	5:AS:18:ARG:HD3	1.66	0.76
5:BF:44:LEU:HB3	5:BI:55:TYR:OH	1.85	0.76
3:BM:222:THR:HG21	3:BM:252:TRP:HE1	1.50	0.76
6:BP:21:PHE:CD1	14:BP:102:CRT:H16	2.20	0.76
1:AC:141:TRP:O	1:AC:145:VAL:HG22	1.84	0.76
5:BA:18:ARG:HD2	5:BA:18:ARG:H	1.49	0.76
6:B2:16:GLU:OE2	14:B2:102:CRT:H1M1	1.85	0.76
6:BR:24:SER:O	6:BR:27:ALA:HB3	1.86	0.76
5:BU:18:ARG:H	5:BU:18:ARG:CD	1.96	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AK:30:VAL:O	5:AK:33:LEU:HG	1.86	0.76
4:AH:186:VAL:HG12	4:AH:187:ALA:H	1.50	0.76
14:AA:102:CRT:H403	5:AD:35:ILE:HD13	1.67	0.76
5:AK:9:TYR:OH	6:AN:11:ASP:HB3	1.85	0.76
6:AP:17:PHE:O	6:AP:20:ILE:HG22	1.86	0.76
6:AP:31:LEU:O	6:AP:34:ILE:HG23	1.86	0.76
9:BG:101:BCL:HBB3	9:BI:102:BCL:CHC	2.16	0.76
3:BM:253:ARG:HH11	3:BM:258:PHE:HA	1.51	0.76
6:BZ:38:LEU:O	6:BZ:38:LEU:HD23	1.86	0.76
9:A3:103:BCL:HMD1	6:A4:36:HIS:CE1	2.21	0.76
6:AZ:45:TRP:CD2	9:AZ:101:BCL:H2C	2.20	0.76
5:B7:46:TRP:CZ3	9:B7:103:BCL:HBC3	2.20	0.76
5:BK:45:ASN:C	5:BK:49:ASP:HB3	2.05	0.76
5:BU:12:TRP:CD1	6:BV:17:PHE:CD2	2.74	0.76
5:BS:7:ASN:HB3	5:BS:10:LYS:HE3	1.68	0.76
1:AC:169:ASP:OD1	1:AC:170:PRO:HD2	1.86	0.76
9:A1:102:BCL:C1D	9:A2:101:BCL:CMD	2.63	0.76
1:AC:280:ASN:HB3	1:AC:304:ARG:CD	2.16	0.76
3:AM:41:GLY:HA3	3:AM:46:ALA:HB2	1.68	0.76
5:BD:49:ASP:HB2	5:BF:56:GLN:HG3	1.66	0.76
5:BI:11:ILE:HA	14:BN:102:CRT:H82	1.67	0.76
5:AO:20:VAL:O	5:AO:24:ILE:HG12	1.85	0.76
9:A2:101:BCL:CHB	9:A3:103:BCL:HMB3	2.15	0.76
6:AB:20:ILE:CG1	5:A9:7:ASN:HB2	2.16	0.76
1:AC:94:MET:SD	7:AC:501:HEM:ND	2.59	0.76
4:AH:168:SER:HB3	4:AH:183:GLU:HB3	1.68	0.76
2:AL:129:ALA:HA	2:AL:247:LEU:HD11	1.66	0.76
3:AM:265:ILE:CG2	3:AM:266:HIS:N	2.47	0.76
9:AN:101:BCL:HBB3	9:AO:102:BCL:C4B	2.15	0.76
14:AR:102:CRT:H2M3	5:AS:36:HIS:HB2	1.66	0.76
5:BD:27:PHE:CZ	5:BF:29:ILE:HD11	2.20	0.76
2:BL:53:GLY:HA3	2:BL:75:ILE:HD11	1.66	0.76
5:B1:52:PRO:HD2	5:B1:55:TYR:CE2	2.21	0.76
6:A2:21:PHE:HE1	14:A2:102:CRT:H16	1.51	0.76
5:A1:19:ARG:HH21	5:A3:18:ARG:NH2	1.84	0.76
3:AM:160:LEU:HD23	3:AM:284:ILE:HG21	1.67	0.76
6:AV:7:THR:CG2	14:AX:102:CRT:H1M1	2.14	0.76
6:B2:21:PHE:CD1	14:B2:102:CRT:C16	2.66	0.76
6:B2:29:PHE:HE1	9:B2:101:BCL:C1	1.99	0.76
5:B3:44:LEU:HD21	9:B4:101:BCL:CBC	2.16	0.76
3:BM:301:HIS:CE1	4:BH:8:TYR:HB3	2.21	0.76
3:BM:224:LEU:HA	3:BM:227:SER:HB2	1.68	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:BO:102:BCL:CHD	9:BP:101:BCL:HMD2	2.16	0.76
6:BZ:24:SER:O	6:BZ:27:ALA:HB3	1.86	0.76
4:AH:114:ALA:HB2	4:AH:245:GLY:CA	2.16	0.76
6:A4:13:GLU:HA	6:A4:16:GLU:CD	2.07	0.76
5:AD:21:LEU:O	5:AD:25:VAL:HG23	1.86	0.76
2:AL:17:LEU:HD11	2:AL:114:VAL:HB	1.68	0.76
2:AL:192:ASN:HD22	2:AL:193:CYS:N	1.83	0.76
2:AL:186:ILE:HD13	9:AL:303:BCL:HMD1	1.66	0.76
6:AP:30:GLY:O	6:AP:33:VAL:HG12	1.85	0.76
6:AR:30:GLY:O	6:AR:33:VAL:HG12	1.86	0.76
5:AU:9:TYR:HA	6:AV:18:HIS:CG	2.21	0.76
1:BC:295:ARG:HD2	7:BC:502:HEM:O1D	1.86	0.76
2:BL:126:VAL:HB	2:BL:127:PRO:HD3	1.66	0.76
3:BM:175:VAL:HG13	3:BM:176:PRO:HD2	1.66	0.76
14:BV:102:CRT:C2M	5:BW:37:MET:CB	2.64	0.76
5:A7:2:PHE:HD1	5:A7:3:THR:N	1.84	0.76
9:A1:102:BCL:H8	14:A2:102:CRT:H182	1.69	0.75
5:A3:36:HIS:CE1	9:A3:104:BCL:HMD1	2.22	0.75
14:AB:102:CRT:C3	5:A9:10:LYS:CB	2.42	0.75
1:AC:285:TRP:CE3	1:AC:302:PRO:HG3	2.21	0.75
1:AC:205:ASP:HB2	1:AC:304:ARG:HE	1.51	0.75
1:AC:97:VAL:HG13	7:AC:502:HEM:HMB2	1.68	0.75
3:AM:79:VAL:CG2	3:AM:85:GLN:HB3	2.16	0.75
5:AQ:10:LYS:HB2	14:AT:102:CRT:H83	1.67	0.75
5:B3:8:LEU:O	5:B3:11:ILE:HG13	1.86	0.75
5:BU:49:ASP:CG	5:BU:50:ASN:H	1.90	0.75
6:BE:9:LEU:HD22	6:BE:13:GLU:HG3	1.68	0.75
14:A0:101:CRT:H35	9:A0:102:BCL:CMA	2.16	0.75
5:A3:14:ILE:HD13	6:A6:17:PHE:HE2	1.49	0.75
1:AC:249:PHE:HD1	1:AC:250:CYS:SG	2.09	0.75
5:AI:11:ILE:HG12	9:AK:102:BCL:H141	1.68	0.75
1:AC:36:ARG:HB3	2:AL:79:ASP:OD1	1.86	0.75
2:AL:177:HIS:HB3	3:AM:183:LEU:CD2	2.16	0.75
6:B2:20:ILE:HG12	14:B2:102:CRT:C8	2.17	0.75
5:BD:39:VAL:O	5:BD:43:ASP:HB3	1.87	0.75
4:BH:159:LEU:HD22	4:BH:254:ARG:HH22	1.51	0.75
4:BH:31:ARG:NE	4:BH:31:ARG:HA	2.01	0.75
5:BI:52:PRO:HG2	5:BI:55:TYR:CE2	2.22	0.75
2:BL:3:MET:SD	2:BL:8:LYS:HA	2.26	0.75
5:BO:7:ASN:HD22	6:BR:20:ILE:CD1	1.99	0.75
1:BC:33:ILE:HD12	1:BC:33:ILE:H	1.52	0.75
5:A5:52:PRO:O	5:A5:55:TYR:CE2	2.39	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:27:PHE:HA	5:AF:30:VAL:HG12	1.68	0.75
6:B2:13:GLU:C	14:B2:102:CRT:H32A	2.06	0.75
5:BU:12:TRP:CG	6:BV:17:PHE:HD2	2.04	0.75
6:BJ:10:THR:HB	6:BJ:13:GLU:OE2	1.84	0.75
9:A6:101:BCL:CMC	9:A7:103:BCL:HBB1	2.16	0.75
5:A7:37:MET:H	14:A7:102:CRT:C2M	1.92	0.75
3:AM:200:PRO:HA	3:AM:203:MET:CG	2.16	0.75
5:AS:4:MET:O	5:AS:8:LEU:HG	1.86	0.75
2:BL:96:GLN:O	2:BL:100:ILE:HG13	1.85	0.75
6:BR:18:HIS:O	6:BR:22:MET:HB2	1.86	0.75
5:AF:4:MET:HB2	6:AJ:23:GLN:CG	2.13	0.75
6:BE:23:GLN:HG3	6:BE:24:SER:H	1.49	0.75
6:AJ:17:PHE:O	6:AJ:20:ILE:HG22	1.86	0.75
2:AL:46:GLY:HA3	10:AL:302:BPH:H9C3	1.68	0.75
5:AO:8:LEU:CD1	6:AP:18:HIS:CE1	2.70	0.75
5:AS:10:LYS:CG	14:AS:104:CRT:H1M1	2.17	0.75
9:BB:101:BCL:CHC	9:BD:102:BCL:HBB3	2.16	0.75
1:BC:20:LEU:HG	2:BL:271:TRP:NE1	2.01	0.75
1:BC:242:SER:O	1:BC:313:ALA:HA	1.87	0.75
5:A9:2:PHE:N	5:A9:5:ASN:ND2	2.30	0.75
5:AD:28:GLN:O	5:AD:32:GLY:N	2.20	0.75
5:AF:9:TYR:HA	6:AG:18:HIS:CE1	2.22	0.75
5:AI:11:ILE:N	14:AN:102:CRT:H82	2.01	0.75
5:AW:11:ILE:HG21	9:AY:102:BCL:H162	1.67	0.75
6:BJ:33:VAL:HG23	9:BJ:101:BCL:H143	1.69	0.75
6:A2:16:GLU:HB2	14:A2:102:CRT:H1M3	1.68	0.75
3:AM:253:ARG:HA	3:AM:257:GLY:O	1.87	0.75
3:AM:273:ALA:O	3:AM:276:THR:HB	1.87	0.75
6:AN:22:MET:HG3	6:AN:26:TYR:HE2	1.49	0.75
5:AO:36:HIS:O	5:AO:40:LEU:HB2	1.86	0.75
6:BR:46:LEU:HB3	6:BT:42:TYR:CZ	2.21	0.75
6:BV:33:VAL:O	6:BV:37:LEU:HD23	1.86	0.75
6:AR:24:SER:O	6:AR:27:ALA:HB3	1.87	0.75
5:BD:9:TYR:HB2	6:BE:15:LYS:HA	1.67	0.75
6:A2:17:PHE:CE1	14:A2:102:CRT:H9	2.19	0.75
9:A7:103:BCL:C1D	9:A8:101:BCL:HMD2	2.16	0.75
5:AA:29:ILE:HD11	14:A0:101:CRT:H343	1.69	0.75
4:BH:45:ARG:HA	4:BH:96:PRO:HB3	1.68	0.75
6:BV:17:PHE:HA	14:BV:102:CRT:H41	1.69	0.75
9:BZ:101:BCL:HBB1	9:B1:102:BCL:CMC	2.17	0.75
1:AC:243:LEU:HD12	1:AC:243:LEU:H	1.52	0.75
6:A6:40:TRP:HZ3	6:A6:45:TRP:H	1.32	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:196:LEU:CD2	3:AM:216:PHE:HB2	2.16	0.75
3:AM:208:PHE:HB3	3:AM:276:THR:OG1	1.87	0.75
5:AO:18:ARG:O	5:AO:22:VAL:HG12	1.87	0.75
5:AS:46:TRP:CE3	9:AS:103:BCL:H2C	2.21	0.75
1:BC:122:TYR:HA	1:BC:125:VAL:CG2	2.16	0.75
3:BM:56:THR:HG21	3:BM:131:VAL:HG11	1.68	0.75
5:BA:18:ARG:HG3	5:B9:14:ILE:HG23	1.68	0.75
5:A7:43:ASP:CA	5:A9:48:ASP:HB3	2.16	0.74
5:AW:8:LEU:HD22	5:AW:11:ILE:HD11	1.68	0.74
5:AY:4:MET:HB3	5:AY:8:LEU:HG	1.68	0.74
9:B1:102:BCL:HBC1	9:B2:101:BCL:HBC3	1.68	0.74
6:BP:17:PHE:O	6:BP:20:ILE:HG22	1.86	0.74
14:BU:103:CRT:H11	6:BX:21:PHE:HA	1.69	0.74
5:A5:24:ILE:HG13	9:A7:103:BCL:H201	1.69	0.74
14:AB:102:CRT:H5	5:A9:10:LYS:HB3	1.69	0.74
9:AJ:101:BCL:HMB3	9:AK:102:BCL:CHB	2.16	0.74
3:AM:179:ILE:HD13	3:AM:179:ILE:N	2.03	0.74
3:AM:243:THR:HG22	4:AH:237:ASP:OD1	1.86	0.74
9:AO:102:BCL:CHD	9:AP:101:BCL:HMD2	2.17	0.74
14:B2:102:CRT:H342	9:B3:102:BCL:CBA	2.16	0.74
2:BL:129:ALA:HB1	2:BL:247:LEU:HD21	1.68	0.74
5:BO:10:LYS:HB2	14:BO:103:CRT:H5	1.69	0.74
14:BU:103:CRT:H343	9:BY:102:BCL:CBA	2.17	0.74
5:BY:36:HIS:NE2	9:BZ:101:BCL:HMD1	2.01	0.74
5:BK:9:TYR:OH	6:BN:11:ASP:HB3	1.87	0.74
1:AC:122:TYR:HA	1:AC:125:VAL:CG2	2.17	0.74
1:AC:235:LEU:HG	1:AC:239:ILE:HD11	1.69	0.74
6:AJ:29:PHE:O	6:AJ:33:VAL:HB	1.88	0.74
5:BD:49:ASP:HB2	5:BF:56:GLN:CG	2.18	0.74
2:BL:279:PRO:HG2	5:BY:37:MET:SD	2.27	0.74
3:BM:158:LEU:O	3:BM:163:ILE:HG22	1.88	0.74
9:BO:102:BCL:C1D	9:BP:101:BCL:CMD	2.63	0.74
5:BO:8:LEU:HG	6:BP:18:HIS:CE1	2.23	0.74
5:A5:4:MET:CG	6:A8:27:ALA:CB	2.59	0.74
4:AH:133:ILE:HD11	4:AH:171:TRP:HB3	1.67	0.74
4:AH:5:ILE:CD1	5:AF:47:LEU:HD12	2.17	0.74
5:AF:27:PHE:CZ	5:AI:29:ILE:HD11	2.23	0.74
3:AM:253:ARG:HB2	3:AM:259:ASN:OD1	1.87	0.74
14:AW:102:CRT:C18	9:AY:102:BCL:C8	2.66	0.74
4:BH:55:VAL:HG13	4:BH:56:VAL:N	2.02	0.74
2:BL:273:ASN:HA	2:BL:276:LEU:HD23	1.68	0.74
5:BQ:19:ARG:NH1	15:BQ:101:PEF:H51	2.02	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:32:GLN:HB2	2:BL:80:LEU:HD12	1.69	0.74
5:A1:13:LEU:O	6:A2:7:THR:HA	1.86	0.74
9:A8:101:BCL:H2A	9:A8:101:BCL:O1D	1.87	0.74
6:AG:46:LEU:HB3	6:AJ:42:TYR:OH	1.86	0.74
5:BA:19:ARG:NH1	5:BD:22:VAL:HG11	2.02	0.74
5:BA:27:PHE:HA	5:BA:30:VAL:HG12	1.68	0.74
6:BG:30:GLY:O	6:BG:33:VAL:HG12	1.87	0.74
3:BM:250:LEU:HG	3:BM:254:TRP:NE1	2.02	0.74
5:BK:12:TRP:NE1	6:BN:17:PHE:HD2	1.84	0.74
5:BQ:44:LEU:HD22	6:BR:43:ARG:HD2	1.69	0.74
5:BS:20:VAL:O	5:BS:24:ILE:HG12	1.88	0.74
5:BD:44:LEU:HD12	5:BD:44:LEU:O	1.86	0.74
14:A2:102:CRT:H2M1	5:A3:36:HIS:HB3	1.69	0.74
5:A3:43:ASP:CB	5:A5:47:LEU:HD13	2.02	0.74
9:AL:301:BCL:HBC3	9:AL:301:BCL:HHD	1.68	0.74
3:AM:171:TRP:HA	3:AM:171:TRP:CE3	2.22	0.74
6:AN:20:ILE:HD12	6:AN:20:ILE:H	1.53	0.74
5:AW:12:TRP:CZ2	6:AX:21:PHE:CG	2.76	0.74
14:AX:102:CRT:H343	9:AY:102:BCL:HBA1	1.69	0.74
9:BA:101:BCL:HMB3	9:B0:102:BCL:CHB	2.18	0.74
5:B9:32:GLY:N	9:B0:102:BCL:HED2	2.01	0.74
5:BA:34:LEU:O	5:BA:38:ILE:HG23	1.86	0.74
5:BY:50:ASN:HD21	6:BZ:43:ARG:HH12	1.32	0.74
5:A7:50:ASN:CG	5:A7:51:ILE:H	1.89	0.74
6:A8:33:VAL:CG2	9:A8:101:BCL:C14	2.66	0.74
2:AL:103:ALA:O	2:AL:107:ILE:HG13	1.87	0.74
5:AQ:31:LEU:HG	9:AR:101:BCL:HED3	1.67	0.74
5:AS:20:VAL:HB	9:AU:102:BCL:C20	2.18	0.74
9:B6:101:BCL:C1B	9:B7:103:BCL:HMB3	2.18	0.74
1:BC:212:ILE:N	1:BC:212:ILE:HD13	2.02	0.74
6:BJ:29:PHE:O	6:BJ:33:VAL:HB	1.88	0.74
5:BS:12:TRP:HE1	6:BT:18:HIS:HD1	1.34	0.74
14:BW:103:CRT:H342	9:B1:102:BCL:CBA	2.15	0.74
6:BV:43:ARG:HH11	5:BW:55:TYR:HB3	1.52	0.74
5:B1:43:ASP:HB2	5:B3:47:LEU:CD1	2.18	0.74
5:A9:4:MET:O	5:A9:8:LEU:HG	1.86	0.74
1:AC:280:ASN:CB	1:AC:304:ARG:HD2	2.17	0.74
5:AF:49:ASP:CG	5:AF:50:ASN:H	1.90	0.74
15:AM:407:PEF:H32	4:AH:29:TYR:CE2	2.23	0.74
5:AO:21:LEU:O	5:AO:25:VAL:HG23	1.88	0.74
9:AR:101:BCL:CMA	9:AS:103:BCL:HMA1	2.13	0.74
9:AW:101:BCL:O1D	9:AW:101:BCL:H2A	1.87	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AZ:32:VAL:HG11	9:AZ:101:BCL:HBA2	1.70	0.74
5:B1:19:ARG:NH2	5:B3:18:ARG:NH1	2.36	0.74
6:B2:21:PHE:CD1	14:B2:102:CRT:C14	2.52	0.74
5:B7:37:MET:N	14:B7:102:CRT:C2M	2.50	0.74
6:BB:22:MET:HG3	6:BB:26:TYR:CZ	2.23	0.74
1:BC:167:VAL:HG21	1:BC:297:GLY:HA3	1.68	0.74
5:BD:33:LEU:O	5:BD:37:MET:HG3	1.88	0.74
3:BM:79:VAL:CG2	3:BM:85:GLN:HB3	2.15	0.74
5:A5:28:GLN:O	5:A5:32:GLY:N	2.21	0.74
2:AL:188:PHE:HB3	2:AL:249:ALA:HB2	1.68	0.74
5:B1:12:TRP:HZ3	5:B1:20:VAL:HG21	1.53	0.74
9:BX:101:BCL:HMC1	5:BY:47:LEU:HD21	1.68	0.74
4:AH:136:MET:SD	4:AH:170:VAL:HG23	2.28	0.74
5:AI:27:PHE:CE2	5:AK:29:ILE:HD11	2.22	0.74
14:AR:102:CRT:C34	9:AS:103:BCL:HBA1	2.17	0.74
6:BB:29:PHE:O	6:BB:32:VAL:HG12	1.87	0.74
1:BC:296:LYS:HA	1:BC:301:ASP:O	1.88	0.74
2:BL:194:LEU:O	2:BL:198:MET:HG3	1.87	0.74
3:BM:301:HIS:ND1	4:BH:8:TYR:HB3	2.03	0.74
3:BM:34:PRO:HG3	3:BM:50:PRO:N	2.03	0.74
6:BT:42:TYR:CD2	6:BT:43:ARG:HG2	2.22	0.74
5:BU:16:ASP:HB3	5:BU:18:ARG:NH1	2.02	0.74
6:A8:46:LEU:HD22	6:A0:42:TYR:CE2	2.22	0.73
5:A3:27:PHE:HE2	5:A5:29:ILE:HG13	1.52	0.73
14:A7:102:CRT:H31	9:A7:103:BCL:HBA1	1.70	0.73
1:AC:45:ASN:ND2	1:AC:48:GLN:HB2	2.01	0.73
3:AM:178:GLY:O	3:AM:182:HIS:HB3	1.88	0.73
3:AM:59:LEU:HG	3:AM:128:LEU:HD21	1.70	0.73
6:B0:33:VAL:O	6:B0:37:LEU:HG	1.88	0.73
2:BL:86:MET:HG3	5:B7:37:MET:HG3	1.68	0.73
1:BC:41:GLU:OE1	2:BL:153:HIS:NE2	2.21	0.73
3:BM:279:THR:HA	3:BM:282:ILE:HD12	1.70	0.73
4:BH:114:ALA:HB2	4:BH:245:GLY:HA3	1.68	0.73
3:AM:25:LYS:HD2	6:AP:8:GLY:HA3	1.69	0.73
5:BA:52:PRO:HG2	6:B0:44:PRO:HG2	1.70	0.73
5:B3:44:LEU:O	5:B3:44:LEU:HD12	1.87	0.73
5:BF:36:HIS:CE1	9:BG:101:BCL:HMD1	2.23	0.73
2:BL:52:TRP:O	2:BL:56:ILE:HG12	1.86	0.73
3:BM:202:HIS:CE1	3:BM:206:ILE:HD11	2.23	0.73
5:BS:46:TRP:CD1	5:BS:47:LEU:HD22	2.23	0.73
5:AF:19:ARG:NH1	5:AI:18:ARG:NH2	2.36	0.73
5:A7:36:HIS:HB3	14:A7:102:CRT:H391	1.69	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:A8:32:VAL:HG11	9:A8:101:BCL:HBA2	1.69	0.73
5:AF:44:LEU:CB	6:AG:43:ARG:HH11	1.98	0.73
5:AQ:52:PRO:HG3	5:AQ:55:TYR:OH	1.87	0.73
10:AM:403:BPH:H101	15:AS:101:PEF:H182	1.70	0.73
5:AU:25:VAL:HG13	9:AU:102:BCL:H52	1.70	0.73
5:AU:43:ASP:HA	5:AW:47:LEU:C	2.08	0.73
5:AY:13:LEU:CD2	6:AZ:14:ALA:CB	2.67	0.73
5:B1:19:ARG:HH22	5:B3:18:ARG:CZ	2.02	0.73
1:BC:263:THR:HB	1:BC:264:PRO:HD2	1.71	0.73
1:BC:281:GLN:OE1	1:BC:285:TRP:CD1	2.41	0.73
5:BI:8:LEU:HD12	6:BJ:18:HIS:HE1	1.53	0.73
5:BS:31:LEU:HD11	14:BS:103:CRT:H35	1.69	0.73
5:BU:14:ILE:HD12	14:BU:103:CRT:H31A	1.69	0.73
5:BW:9:TYR:HA	6:BX:18:HIS:CD2	2.23	0.73
6:A2:21:PHE:CD1	14:A2:102:CRT:H14	2.23	0.73
6:B0:33:VAL:CG1	6:B0:37:LEU:HD11	2.19	0.73
5:BY:43:ASP:CA	5:B1:48:ASP:HB3	2.17	0.73
5:B3:14:ILE:HD11	14:B7:102:CRT:H42	1.70	0.73
5:B7:16:ASP:O	5:B7:20:VAL:HG22	1.89	0.73
6:BB:29:PHE:CE1	9:BB:101:BCL:H11	2.23	0.73
14:BG:102:CRT:H2M2	5:BI:37:MET:CE	2.18	0.73
9:BM:401:BCL:HMA1	9:BM:401:BCL:H121	1.69	0.73
3:BM:34:PRO:HD3	3:BM:50:PRO:HB3	1.68	0.73
6:BP:10:THR:HG22	6:BP:11:ASP:N	2.04	0.73
4:AH:227:ASN:HD22	4:AH:228:PRO:CD	2.00	0.73
6:A4:13:GLU:O	6:A4:16:GLU:HG2	1.88	0.73
4:AH:5:ILE:HD11	5:AF:40:LEU:HD12	1.70	0.73
15:AM:408:PEF:H52	4:AH:204:LYS:HE2	1.68	0.73
3:AM:249:ALA:HB2	13:AM:405:MQ8:H61	1.71	0.73
5:AO:7:ASN:H	5:AO:7:ASN:ND2	1.86	0.73
5:AW:51:ILE:HB	5:AW:52:PRO:CA	2.15	0.73
5:BF:27:PHE:CZ	5:BI:29:ILE:HD11	2.23	0.73
3:BM:55:LEU:HD23	5:BQ:22:VAL:HG23	1.70	0.73
14:BV:102:CRT:H2M1	5:BW:37:MET:HB2	1.69	0.73
9:A5:102:BCL:O1D	9:A5:102:BCL:H2A	1.89	0.73
5:AK:44:LEU:CD2	5:AK:46:TRP:HB3	2.18	0.73
6:B2:17:PHE:HD1	14:B2:102:CRT:H9	1.53	0.73
5:B7:44:LEU:HD22	5:B7:46:TRP:CE3	2.23	0.73
5:BI:44:LEU:HD12	5:BI:44:LEU:O	1.89	0.73
9:BJ:101:BCL:HMB3	9:BK:102:BCL:CHB	2.19	0.73
2:BL:186:ILE:CD1	9:BL:303:BCL:HMD1	2.18	0.73
5:BU:31:LEU:HD23	9:BV:101:BCL:HED3	1.69	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:316:LYS:HG2	7:AC:504:HEM:HAD2	1.68	0.73
5:AK:29:ILE:HB	9:AK:102:BCL:H43	1.70	0.73
2:AL:120:LEU:O	2:AL:122:ILE:HG23	1.87	0.73
3:AM:144:GLN:HB3	3:AM:147:SER:OG	1.88	0.73
5:AO:29:ILE:HD12	9:AO:102:BCL:H11	1.69	0.73
6:B2:11:ASP:O	6:B2:15:LYS:HG2	1.88	0.73
5:B9:31:LEU:O	5:B9:35:ILE:HG12	1.88	0.73
6:BJ:17:PHE:HE1	6:BJ:21:PHE:HB2	1.54	0.73
2:BL:216:LYS:HD2	2:BL:220:HIS:CD2	2.24	0.73
1:BC:164:TYR:CE2	1:BC:312:GLN:HG2	2.24	0.73
5:A7:12:TRP:HZ3	5:A7:17:PRO:HB3	1.51	0.73
1:AC:22:GLY:HA3	2:AL:263:PHE:HB3	1.70	0.73
1:AC:291:LEU:O	1:AC:296:LYS:HE3	1.89	0.73
2:AL:4:LEU:HD21	3:AM:253:ARG:HH21	1.53	0.73
5:AS:10:LYS:CG	14:AS:104:CRT:C1M	2.67	0.73
5:B1:18:ARG:HG2	5:B1:18:ARG:HH11	1.53	0.73
14:B1:103:CRT:C34	9:B5:102:BCL:HBA1	2.17	0.73
3:BM:290:VAL:HG12	3:BM:291:VAL:H	1.54	0.73
10:BM:403:BPH:HMA1	15:BQ:101:PEF:C41	2.16	0.73
10:BM:403:BPH:H3A	15:BQ:101:PEF:H431	1.71	0.73
5:A3:52:PRO:O	5:A3:55:TYR:CZ	2.41	0.73
6:AB:20:ILE:HG12	5:A9:7:ASN:HB2	1.68	0.73
5:B1:14:ILE:HD12	5:B1:15:LEU:N	2.04	0.73
5:B7:42:THR:HB	5:B9:48:ASP:CG	2.08	0.73
6:BE:33:VAL:O	6:BE:37:LEU:HD23	1.89	0.73
6:BP:45:TRP:O	6:BP:46:LEU:HG	1.87	0.73
6:BV:17:PHE:CA	14:BV:102:CRT:H41	2.19	0.73
5:BW:16:ASP:O	5:BW:19:ARG:HG2	1.88	0.73
5:A1:10:LYS:HB3	14:A1:103:CRT:H5	1.70	0.73
5:A5:25:VAL:CG1	9:A5:102:BCL:C19	2.54	0.73
3:AM:166:VAL:HG22	3:AM:171:TRP:CZ3	2.23	0.73
5:BD:32:GLY:N	9:BE:101:BCL:HED2	2.04	0.73
9:BI:102:BCL:OBD	6:BJ:32:VAL:HG13	1.88	0.73
9:BX:101:BCL:CMC	5:BY:47:LEU:HD21	2.19	0.73
2:AL:148:MET:HE1	2:AL:262:PRO:HD3	1.71	0.73
14:A5:103:CRT:H293	9:A9:102:BCL:C4	2.14	0.72
5:A5:43:ASP:HB2	5:A7:47:LEU:CB	2.18	0.72
14:AA:102:CRT:H9	6:AE:17:PHE:CD1	2.23	0.72
6:AG:23:GLN:O	6:AG:26:TYR:HB2	1.88	0.72
4:AH:168:SER:HB3	4:AH:183:GLU:CB	2.19	0.72
5:AK:52:PRO:HB2	5:AK:55:TYR:CD1	2.23	0.72
2:AL:235:ALA:HA	11:AL:304:UQ8:H3MB	1.69	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AQ:43:ASP:HA	5:AS:47:LEU:C	2.09	0.72
14:AT:102:CRT:H342	9:AU:102:BCL:HBA2	1.69	0.72
3:BM:57:GLY:O	3:BM:61:ILE:HG13	1.89	0.72
6:AZ:46:LEU:HB3	5:A1:52:PRO:HD3	1.71	0.72
5:A3:36:HIS:NE2	9:A3:104:BCL:HMD1	2.04	0.72
6:A4:40:TRP:CZ3	6:A4:44:PRO:HA	2.24	0.72
9:AJ:101:BCL:CHB	9:AK:102:BCL:HMB3	2.19	0.72
5:AS:47:LEU:H	5:AS:47:LEU:HD22	1.54	0.72
14:AT:102:CRT:H342	9:AU:102:BCL:HBA1	1.71	0.72
5:AY:33:LEU:HD12	5:AY:34:LEU:N	2.04	0.72
6:AZ:22:MET:HG3	6:AZ:26:TYR:HE1	1.53	0.72
5:B1:18:ARG:O	5:B1:22:VAL:HG12	1.89	0.72
6:B6:27:ALA:O	6:B6:31:LEU:HG	1.89	0.72
5:B9:31:LEU:HD11	5:B9:35:ILE:HD11	1.71	0.72
2:BL:190:PHE:HE1	3:BM:209:LEU:HD21	1.53	0.72
3:BM:222:THR:CG2	3:BM:252:TRP:HE1	2.02	0.72
6:AG:29:PHE:O	6:AG:33:VAL:CG2	2.37	0.72
5:A3:12:TRP:HE1	6:A4:18:HIS:HB2	1.54	0.72
5:A7:25:VAL:HG13	9:A7:103:BCL:H52	1.72	0.72
2:AL:10:TYR:OH	3:AM:246:GLU:HG2	1.89	0.72
5:AO:49:ASP:CG	5:AO:50:ASN:H	1.90	0.72
6:AX:17:PHE:CE1	14:AX:102:CRT:H6	2.24	0.72
9:B9:102:BCL:HMD1	6:B0:36:HIS:HD2	1.54	0.72
6:B0:40:TRP:HH2	6:B0:46:LEU:CG	2.00	0.72
6:B4:29:PHE:HZ	9:B4:101:BCL:H101	1.52	0.72
9:BO:102:BCL:HBD	9:BP:101:BCL:OBD	1.90	0.72
5:AI:18:ARG:CZ	5:AI:18:ARG:HB3	2.19	0.72
2:AL:144:ARG:HB3	2:AL:145:PRO:HD3	1.71	0.72
2:AL:48:LEU:HA	2:AL:51:VAL:HG23	1.71	0.72
3:AM:279:THR:HA	3:AM:282:ILE:CD1	2.19	0.72
5:AS:13:LEU:HD12	14:AS:104:CRT:H32A	1.68	0.72
9:B2:101:BCL:HMB3	9:B3:102:BCL:C1B	2.19	0.72
5:B3:21:LEU:O	5:B3:25:VAL:HG23	1.89	0.72
5:B3:5:ASN:HA	5:B3:8:LEU:CD1	2.18	0.72
6:B4:13:GLU:HA	6:B4:16:GLU:CD	2.09	0.72
5:B7:37:MET:H	14:B7:102:CRT:H2M1	1.54	0.72
5:BK:44:LEU:CD2	5:BK:46:TRP:HB3	2.19	0.72
3:BM:164:ARG:HA	3:BM:167:MET:HB3	1.71	0.72
6:AE:9:LEU:HD22	6:AE:13:GLU:HG3	1.71	0.72
6:AE:29:PHE:CZ	9:AE:101:BCL:H42	2.24	0.72
3:AM:293:ASN:CG	3:AM:296:LEU:HG	2.09	0.72
5:B7:43:ASP:HB2	5:B9:47:LEU:CD1	2.16	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:BB:102:CRT:H2M2	5:BD:37:MET:CE	2.19	0.72
2:BL:206:VAL:O	2:BL:209:PRO:HD3	1.88	0.72
2:BL:4:LEU:H	2:BL:7:GLU:HB3	1.54	0.72
5:BU:12:TRP:CE2	6:BV:17:PHE:CD2	2.76	0.72
5:AW:54:SER:HA	17:AW:201:HOH:O	1.88	0.72
6:A0:32:VAL:CG2	9:A0:102:BCL:HBA2	2.18	0.72
6:A0:24:SER:O	6:A0:27:ALA:HB3	1.90	0.72
5:A5:12:TRP:CZ3	5:A5:17:PRO:HA	2.25	0.72
14:AA:102:CRT:H11	6:AE:17:PHE:HE1	1.53	0.72
1:AC:301:ASP:HB2	1:AC:302:PRO:HD2	1.72	0.72
3:AM:171:TRP:HA	3:AM:171:TRP:HE3	1.55	0.72
3:AM:214:LEU:O	3:AM:217:ALA:HB3	1.88	0.72
5:AO:13:LEU:HD23	5:AO:14:ILE:N	2.05	0.72
9:B1:102:BCL:HAC2	9:B2:101:BCL:HBC1	1.70	0.72
9:B6:101:BCL:CHC	9:B7:103:BCL:HBB3	2.20	0.72
5:BI:39:VAL:HG11	9:BI:102:BCL:HBC1	1.71	0.72
3:BM:40:LEU:HD13	3:BM:48:ILE:HD11	1.70	0.72
1:AC:154:THR:HG22	1:AC:155:CYS:N	2.04	0.72
6:AG:21:PHE:C	6:AG:21:PHE:HD1	1.87	0.72
3:AM:58:THR:O	3:AM:61:ILE:HG22	1.88	0.72
5:AW:12:TRP:HA	5:AW:12:TRP:CE3	2.23	0.72
14:AW:102:CRT:H35	5:AY:31:LEU:HD11	1.71	0.72
6:BG:21:PHE:C	6:BG:21:PHE:CD1	2.61	0.72
2:BL:148:MET:SD	2:BL:262:PRO:HG3	2.29	0.72
3:BM:179:ILE:O	3:BM:183:LEU:HB2	1.90	0.72
9:BT:101:BCL:HMA1	9:BU:102:BCL:HMA1	1.70	0.72
6:A0:21:PHE:HB2	14:A0:101:CRT:C14	2.19	0.72
5:A3:52:PRO:O	5:A3:55:TYR:CE1	2.42	0.72
6:A8:29:PHE:HZ	9:A8:101:BCL:C7	2.03	0.72
1:AC:121:ILE:HG23	1:AC:123:THR:HG23	1.72	0.72
2:AL:17:LEU:HG	2:AL:115:GLU:HG2	1.71	0.72
2:AL:177:HIS:CD2	9:AL:301:BCL:HMC2	2.24	0.72
3:AM:215:LEU:O	3:AM:218:MET:N	2.22	0.72
5:AS:11:ILE:HG12	14:AS:104:CRT:C8	2.19	0.72
9:AZ:101:BCL:HMB3	9:A1:102:BCL:C1B	2.19	0.72
5:B7:36:HIS:CG	14:B7:102:CRT:H393	2.25	0.72
9:BG:101:BCL:HMB3	9:BI:102:BCL:C4A	2.20	0.72
3:BM:200:PRO:HA	3:BM:203:MET:SD	2.30	0.72
6:BN:44:PRO:HD2	5:BO:55:TYR:OH	1.90	0.72
9:BW:102:BCL:CBC	9:BX:101:BCL:HBC3	2.20	0.72
5:BY:10:LYS:HG3	6:B2:20:ILE:HD13	1.71	0.72
1:BC:157:ARG:HH12	1:BC:318:LEU:CG	2.02	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AW:14:ILE:HG21	5:AY:21:LEU:HD12	1.71	0.72
6:A6:27:ALA:O	6:A6:31:LEU:HG	1.89	0.72
5:A7:29:ILE:HG23	5:A7:30:VAL:N	2.04	0.72
5:AA:10:LYS:O	5:AA:13:LEU:HD13	1.90	0.72
5:AS:31:LEU:O	5:AS:35:ILE:HG12	1.90	0.72
5:BO:29:ILE:CA	9:BO:102:BCL:H11	2.18	0.72
5:AA:28:GLN:HB3	9:AA:101:BCL:H2	1.71	0.72
6:AG:31:LEU:O	6:AG:34:ILE:HG23	1.89	0.72
4:AH:65:LYS:N	4:AH:78:ALA:O	2.23	0.72
2:AL:29:PRO:CB	3:AM:253:ARG:HD2	2.20	0.72
14:AS:104:CRT:H2M1	5:AW:37:MET:HB2	1.70	0.72
14:BA:102:CRT:H403	5:BD:35:ILE:HD13	1.72	0.72
9:BO:102:BCL:HAC2	9:BP:101:BCL:HAC1	1.71	0.72
5:BW:46:TRP:CH2	9:BW:102:BCL:H2C	2.24	0.72
6:AG:16:GLU:O	6:AG:20:ILE:HG22	1.89	0.72
9:A8:101:BCL:HMC3	9:A9:102:BCL:CBB	2.18	0.71
1:AC:20:LEU:HD22	1:AC:21:LEU:N	2.05	0.71
3:AM:73:PHE:HZ	5:AS:38:ILE:HA	1.53	0.71
5:AS:37:MET:CG	15:AS:101:PEF:H452	2.19	0.71
6:B0:29:PHE:HD1	9:B0:102:BCL:H11	1.54	0.71
5:B5:30:VAL:HG13	5:B5:31:LEU:N	2.05	0.71
5:B7:42:THR:HB	5:B9:48:ASP:OD2	1.90	0.71
5:BD:33:LEU:O	5:BD:37:MET:CG	2.38	0.71
9:BJ:101:BCL:HMB1	9:BJ:101:BCL:CBB	2.20	0.71
3:BM:63:PHE:CE2	3:BM:124:LEU:HB2	2.25	0.71
1:BC:254:ARG:HH21	3:BM:295:TYR:HE1	1.36	0.71
5:BU:46:TRP:CH2	9:BU:102:BCL:H2C	2.24	0.71
5:A7:46:TRP:CD1	5:A7:47:LEU:HD22	2.24	0.71
5:AI:27:PHE:O	5:AI:30:VAL:HG12	1.89	0.71
5:B7:17:PRO:O	5:B7:21:LEU:HG	1.89	0.71
4:BH:31:ARG:HB3	4:BH:59:PRO:HG3	1.71	0.71
4:BH:45:ARG:HD3	4:BH:97:GLY:N	2.03	0.71
2:BL:188:PHE:C	2:BL:190:PHE:H	1.92	0.71
3:BM:124:LEU:O	3:BM:128:LEU:N	2.23	0.71
6:BZ:46:LEU:HB2	5:B1:52:PRO:CD	2.19	0.71
3:AM:199:ASN:HD21	3:AM:283:GLY:HA3	1.55	0.71
6:A2:20:ILE:HD12	14:A2:102:CRT:H81	1.71	0.71
5:A9:44:LEU:HD22	5:A9:44:LEU:O	1.91	0.71
3:AM:208:PHE:CZ	3:AM:275:LEU:HD13	2.26	0.71
3:AM:73:PHE:CZ	5:AS:38:ILE:HA	2.25	0.71
5:AU:44:LEU:HD22	6:AV:43:ARG:HD3	1.71	0.71
5:BI:17:PRO:O	5:BI:21:LEU:HB3	1.90	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:196:LEU:HB2	3:BM:216:PHE:CD2	2.25	0.71
3:BM:228:ARG:HD2	3:BM:228:ARG:H	1.55	0.71
6:BP:44:PRO:O	5:BQ:52:PRO:HG2	1.91	0.71
5:BY:31:LEU:O	5:BY:35:ILE:HG12	1.89	0.71
5:AI:31:LEU:HB3	9:AJ:101:BCL:HED3	1.73	0.71
6:B4:29:PHE:HE1	9:B4:101:BCL:H72	1.55	0.71
5:BQ:43:ASP:HB2	5:BS:47:LEU:HA	1.71	0.71
4:AH:225:LEU:O	4:AH:225:LEU:HD12	1.90	0.71
9:A9:102:BCL:C1D	9:A0:102:BCL:CMD	2.69	0.71
5:A7:44:LEU:HD22	5:A7:44:LEU:O	1.90	0.71
5:AI:36:HIS:NE2	9:AJ:101:BCL:HMD1	2.05	0.71
5:AO:11:ILE:N	14:AR:102:CRT:H82	2.06	0.71
5:AU:12:TRP:CE3	5:AU:12:TRP:HA	2.23	0.71
6:B0:24:SER:O	6:B0:27:ALA:HB3	1.90	0.71
9:B1:102:BCL:CBB	9:B1:102:BCL:HMB1	2.21	0.71
5:BA:14:ILE:HG13	5:BA:15:LEU:CD2	2.20	0.71
2:BL:2:ALA:N	4:BH:45:ARG:HB2	2.04	0.71
5:BS:36:HIS:CE1	9:BT:101:BCL:CMD	2.70	0.71
2:AL:43:THR:HA	10:AL:302:BPH:H7C1	1.72	0.71
3:AM:260:VAL:HB	3:AM:264:SER:OG	1.91	0.71
5:B9:12:TRP:NE1	6:B0:18:HIS:HB2	2.04	0.71
5:B3:2:PHE:CE1	5:B3:5:ASN:ND2	2.58	0.71
5:BW:16:ASP:H	5:BW:19:ARG:NE	1.88	0.71
4:AH:189:ASN:HB3	4:AH:191:LYS:HG3	1.71	0.71
5:A1:19:ARG:O	5:A1:23:SER:HB3	1.91	0.71
6:AG:28:TRP:CE2	6:AG:32:VAL:CG2	2.74	0.71
4:AH:52:ARG:HB2	4:AH:54:LYS:NZ	2.05	0.71
3:AM:84:PHE:HA	5:AW:37:MET:HE1	1.72	0.71
5:B7:18:ARG:O	5:B7:22:VAL:HG12	1.91	0.71
2:BL:12:VAL:HG22	2:BL:13:ARG:N	2.04	0.71
5:BU:19:ARG:NE	5:BW:18:ARG:NH2	2.38	0.71
9:BV:101:BCL:HMA1	9:BW:102:BCL:CMA	2.17	0.71
2:AL:148:MET:SD	2:AL:262:PRO:HG3	2.30	0.71
6:AB:23:GLN:HG3	5:A9:4:MET:CE	2.18	0.71
14:AA:102:CRT:C2	6:AE:16:GLU:HG3	2.20	0.71
3:AM:126:ILE:HG12	9:AM:402:BCL:H142	1.72	0.71
6:AP:21:PHE:CD1	6:AP:21:PHE:C	2.63	0.71
6:AX:25:MET:HG3	14:AX:102:CRT:H21	1.71	0.71
6:B0:33:VAL:HG12	6:B0:37:LEU:HD11	1.71	0.71
6:B2:21:PHE:HA	14:B2:102:CRT:C11	2.21	0.71
5:B5:45:ASN:C	5:B5:49:ASP:HB3	2.11	0.71
5:BA:55:TYR:CE1	5:B9:44:LEU:HB3	2.18	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:270:TRP:HE3	1:BC:271:TYR:CD1	2.08	0.71
6:B8:45:TRP:O	6:B8:46:LEU:HG	1.91	0.71
4:AH:69:LEU:HB3	4:AH:70:PRO:HD2	1.72	0.71
13:AM:405:MQ8:C12	13:AM:405:MQ8:H2M1	2.21	0.71
6:AP:13:GLU:HA	6:AP:16:GLU:CD	2.10	0.71
5:AY:13:LEU:HD21	6:AZ:14:ALA:HB1	1.71	0.71
5:AY:50:ASN:CG	5:AY:51:ILE:H	1.94	0.71
9:B2:101:BCL:C1B	9:B3:102:BCL:HMB3	2.21	0.71
3:BM:60:SER:CA	3:BM:128:LEU:HD23	2.21	0.71
6:BP:38:LEU:HD23	6:BP:38:LEU:O	1.90	0.71
6:BP:46:LEU:HB3	6:BR:42:TYR:OH	1.91	0.71
5:BY:30:VAL:HA	5:BY:33:LEU:HG	1.72	0.71
5:B9:17:PRO:O	5:B9:21:LEU:HB2	1.91	0.71
5:AA:11:ILE:N	14:AA:102:CRT:H82	2.06	0.71
5:AA:27:PHE:HA	5:AA:30:VAL:HG12	1.73	0.71
5:AO:38:ILE:HD13	14:AP:102:CRT:H403	1.73	0.71
5:AS:17:PRO:O	5:AS:21:LEU:HG	1.91	0.71
9:AV:102:BCL:O1D	9:AV:102:BCL:H2A	1.89	0.71
5:B7:44:LEU:HD23	6:B8:43:ARG:HH11	1.56	0.71
5:B9:40:LEU:HD13	5:B9:47:LEU:HD23	1.71	0.71
1:BC:276:VAL:HG13	1:BC:277:ARG:N	2.03	0.71
1:BC:62:LEU:HG	1:BC:327:TYR:OH	1.90	0.71
2:BL:243:LEU:HD23	11:BL:304:UQ8:H46B	1.73	0.71
6:BV:27:ALA:O	6:BV:31:LEU:HG	1.91	0.71
5:BY:48:ASP:O	5:BY:49:ASP:HB3	1.89	0.71
6:A0:36:HIS:HE1	9:A0:102:BCL:C1B	2.04	0.70
3:AM:156:PHE:CD2	9:AM:402:BCL:H52	2.26	0.70
3:AM:71:ILE:HD13	3:AM:177:PHE:CE1	2.26	0.70
2:AL:71:TRP:HD1	3:AM:303:MET:HG2	1.54	0.70
6:B8:20:ILE:O	6:B8:23:GLN:HG3	1.90	0.70
9:BB:101:BCL:C1B	9:BD:102:BCL:HMB3	2.21	0.70
9:BF:102:BCL:ND	9:BG:101:BCL:HMD2	2.06	0.70
2:BL:206:VAL:HG11	2:BL:221:GLU:HG2	1.73	0.70
14:BV:102:CRT:H342	9:BW:102:BCL:CBA	2.20	0.70
5:BU:43:ASP:CA	5:BW:47:LEU:O	2.36	0.70
3:AM:28:LEU:HB3	3:AM:29:PRO:HD2	1.72	0.70
6:AB:40:TRP:HZ3	6:AB:45:TRP:N	1.85	0.70
1:AC:167:VAL:HG21	1:AC:297:GLY:HA3	1.71	0.70
1:AC:157:ARG:NH1	1:AC:318:LEU:HD21	2.05	0.70
14:AB:102:CRT:H342	9:AD:102:BCL:HBA1	1.73	0.70
5:AY:38:ILE:HD12	5:AY:39:VAL:H	1.54	0.70
5:BA:33:LEU:HA	14:B0:101:CRT:C2M	2.22	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:B0:32:VAL:CG2	9:B0:102:BCL:HBA2	2.19	0.70
14:BW:103:CRT:H2M1	5:B1:36:HIS:HB3	1.74	0.70
2:BL:140:LEU:HD23	2:BL:140:LEU:O	1.91	0.70
2:BL:144:ARG:HB3	2:BL:145:PRO:HD3	1.73	0.70
3:BM:253:ARG:HB2	3:BM:259:ASN:OD1	1.90	0.70
3:BM:208:PHE:HZ	3:BM:275:LEU:HD13	1.53	0.70
5:BQ:51:ILE:CG1	5:BQ:52:PRO:HA	2.20	0.70
5:BU:11:ILE:HA	14:BU:103:CRT:H5	1.73	0.70
5:A1:51:ILE:HB	5:A1:52:PRO:HA	1.74	0.70
5:A3:11:ILE:HA	14:A7:102:CRT:H82	1.73	0.70
6:A4:13:GLU:C	6:A4:16:GLU:HG2	2.11	0.70
6:A8:20:ILE:O	6:A8:23:GLN:HG3	1.91	0.70
9:AM:401:BCL:H2A	9:AM:401:BCL:O1D	1.91	0.70
6:AN:33:VAL:O	6:AN:37:LEU:HD23	1.90	0.70
5:AO:11:ILE:O	5:AO:14:ILE:HG22	1.90	0.70
5:AW:7:ASN:HD22	5:AW:7:ASN:N	1.86	0.70
5:B9:44:LEU:HD22	5:B9:44:LEU:O	1.90	0.70
4:BH:77:VAL:HG23	4:BH:80:ARG:HB3	1.71	0.70
14:BV:102:CRT:C2M	5:BW:33:LEU:O	2.37	0.70
5:BU:21:LEU:HD11	6:BV:17:PHE:CE1	2.27	0.70
6:BZ:22:MET:O	6:BZ:25:MET:HB3	1.91	0.70
5:AA:36:HIS:NE2	9:AB:101:BCL:HMD1	2.05	0.70
5:AA:43:ASP:CA	5:AD:48:ASP:HB3	2.19	0.70
6:AJ:17:PHE:HA	6:AJ:20:ILE:HG22	1.73	0.70
3:AM:63:PHE:HB3	3:AM:125:SER:HB2	1.72	0.70
5:AO:36:HIS:CE1	9:AP:101:BCL:HMD1	2.27	0.70
5:B5:16:ASP:HB2	5:B5:19:ARG:CG	2.21	0.70
9:B6:101:BCL:CMC	9:B7:103:BCL:HBB1	2.21	0.70
5:B7:31:LEU:O	5:B7:35:ILE:HG13	1.90	0.70
5:BA:14:ILE:HG13	5:BA:15:LEU:HD22	1.73	0.70
1:BC:280:ASN:HB3	1:BC:304:ARG:CD	2.22	0.70
2:BL:10:TYR:HA	4:BH:112:GLY:CA	2.22	0.70
3:BM:34:PRO:CG	3:BM:50:PRO:HD3	2.22	0.70
9:BK:102:BCL:HMD1	6:BN:36:HIS:CD2	2.26	0.70
5:BO:43:ASP:HA	5:BQ:48:ASP:CG	2.10	0.70
14:AS:104:CRT:C39	5:AW:36:HIS:CB	2.70	0.70
5:AY:44:LEU:HD13	6:AZ:43:ARG:HD2	1.73	0.70
6:AZ:27:ALA:O	6:AZ:31:LEU:HG	1.91	0.70
5:B3:13:LEU:HD12	14:B7:102:CRT:H22A	1.71	0.70
5:B3:14:ILE:HD13	6:B6:17:PHE:HE2	1.57	0.70
14:BB:102:CRT:H2M1	5:BD:37:MET:HG2	1.74	0.70
5:BK:11:ILE:HA	14:BP:102:CRT:H82	1.74	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:BR:30:GLY:O	6:BR:33:VAL:HG12	1.91	0.70
5:BS:5:ASN:HA	5:BS:8:LEU:HG	1.73	0.70
5:BU:12:TRP:HZ2	6:BV:21:PHE:CD2	2.09	0.70
4:BH:176:GLU:O	4:BH:178:GLN:N	2.23	0.70
6:A0:45:TRP:O	6:A0:46:LEU:HB2	1.89	0.70
6:AE:32:VAL:HG21	9:AE:101:BCL:HBA2	1.74	0.70
5:AK:46:TRP:HA	5:AK:49:ASP:OD1	1.92	0.70
6:AV:42:TYR:CD2	6:AV:43:ARG:HG3	2.27	0.70
6:AX:17:PHE:CE1	14:AX:102:CRT:H42	2.27	0.70
5:AY:31:LEU:O	5:AY:35:ILE:HG12	1.91	0.70
5:B7:36:HIS:HB2	14:B7:102:CRT:C2M	2.21	0.70
1:BC:270:TRP:HA	1:BC:273:ILE:CD1	2.22	0.70
4:BH:13:GLN:O	4:BH:16:ILE:HG22	1.91	0.70
14:BF:103:CRT:H342	9:BK:102:BCL:CBA	2.21	0.70
3:BM:274:VAL:O	3:BM:278:ILE:HG13	1.92	0.70
5:AF:4:MET:CG	6:AJ:23:GLN:HG3	2.21	0.70
1:AC:121:ILE:CG2	1:AC:123:THR:HG23	2.22	0.70
1:AC:254:ARG:HH12	3:AM:307:TYR:HE1	1.38	0.70
5:AF:35:ILE:HD13	14:AG:102:CRT:H403	1.74	0.70
2:AL:237:ALA:HA	2:AL:240:ARG:HG3	1.72	0.70
2:AL:204:LEU:HD11	3:AM:267:ARG:HD2	1.73	0.70
1:BC:292:PRO:O	1:BC:296:LYS:HG3	1.91	0.70
6:BJ:31:LEU:O	6:BJ:34:ILE:HG23	1.92	0.70
9:AA:101:BCL:C1D	9:AB:101:BCL:CMD	2.70	0.70
1:AC:234:GLY:O	1:AC:237:MET:HB2	1.92	0.70
4:AH:235:GLU:HA	4:AH:238:LYS:HB2	1.73	0.70
4:AH:32:ARG:HH21	4:AH:60:ASP:HB2	1.55	0.70
2:AL:204:LEU:HD21	3:AM:267:ARG:HD2	1.73	0.70
3:AM:83:VAL:HG23	3:AM:84:PHE:HD1	1.57	0.70
1:BC:266:ARG:HG3	7:BC:503:HEM:HMD1	1.74	0.70
6:BG:21:PHE:HD1	6:BG:21:PHE:C	1.95	0.70
4:BH:65:LYS:N	4:BH:78:ALA:O	2.25	0.70
9:BK:102:BCL:HMD2	9:BN:101:BCL:CHD	2.22	0.70
3:BM:215:LEU:O	3:BM:218:MET:HG3	1.91	0.70
3:BM:84:PHE:HA	5:BW:37:MET:HE1	1.73	0.70
1:BC:95:VAL:O	1:BC:98:THR:HB	1.91	0.70
5:A7:35:ILE:HD12	9:A8:101:BCL:O1D	1.90	0.70
1:AC:130:MET:SD	7:AC:502:HEM:ND	2.65	0.70
4:AH:39:TYR:HE1	4:AH:48:ARG:HH12	1.38	0.70
6:AX:22:MET:HG3	6:AX:26:TYR:HE2	1.57	0.70
1:BC:191:ALA:O	1:BC:192:TYR:HB2	1.91	0.70
6:BJ:30:GLY:O	6:BJ:34:ILE:HG22	1.90	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:253:SER:C	9:BL:301:BCL:HED3	2.12	0.70
5:BQ:36:HIS:CE1	9:BQ:104:BCL:CMD	2.63	0.70
6:BR:29:PHE:H	6:BR:29:PHE:HD1	1.38	0.70
6:BT:29:PHE:CD1	9:BT:101:BCL:H11	2.26	0.70
6:A0:20:ILE:CD1	14:A0:101:CRT:H133	2.21	0.70
6:A2:45:TRP:CE2	9:A2:101:BCL:H2C	2.26	0.70
5:A3:21:LEU:O	5:A3:25:VAL:HG23	1.92	0.70
9:A3:103:BCL:H71	6:A4:28:TRP:CE3	2.27	0.70
6:AB:42:TYR:OH	6:A0:46:LEU:HB3	1.92	0.70
5:AI:31:LEU:HB3	9:AJ:101:BCL:CED	2.21	0.70
9:AY:102:BCL:HBC2	9:AZ:101:BCL:HHD	1.72	0.70
5:B3:4:MET:O	5:B3:8:LEU:HG	1.92	0.70
5:BD:28:GLN:HB3	9:BD:102:BCL:C1	2.22	0.70
3:BM:300:LYS:HA	3:BM:300:LYS:HE2	1.73	0.70
6:BN:46:LEU:O	5:BO:51:ILE:HG13	1.90	0.70
6:BN:43:ARG:HB3	5:BO:55:TYR:CE2	2.27	0.70
5:BQ:31:LEU:CG	9:BQ:104:BCL:HED3	2.22	0.70
10:AL:302:BPH:H102	9:AM:401:BCL:H193	1.73	0.69
3:AM:114:TRP:HA	3:AM:114:TRP:CE3	2.27	0.69
3:AM:286:LEU:HD13	4:AH:12:ALA:HB1	1.73	0.69
5:B3:28:GLN:HG3	9:B3:102:BCL:C1	2.21	0.69
5:B9:35:ILE:HG21	9:B0:102:BCL:ND	2.07	0.69
5:BQ:31:LEU:HG	9:BQ:104:BCL:HED3	1.73	0.69
14:BP:102:CRT:H2M1	5:BQ:33:LEU:O	1.92	0.69
6:BX:27:ALA:O	6:BX:31:LEU:HG	1.91	0.69
14:A2:102:CRT:H2M2	5:A3:40:LEU:CD1	2.20	0.69
6:A2:46:LEU:HD22	6:A4:42:TYR:CE2	2.27	0.69
14:A7:102:CRT:C21	14:A7:102:CRT:C23	2.68	0.69
6:A8:45:TRP:O	6:A8:46:LEU:HG	1.91	0.69
1:AC:193:ALA:HB3	1:AC:195:LEU:HD12	1.73	0.69
1:AC:97:VAL:O	1:AC:97:VAL:HG12	1.90	0.69
9:AK:102:BCL:ND	9:AN:101:BCL:CMD	2.56	0.69
6:AT:21:PHE:CD2	14:AT:102:CRT:H14	2.27	0.69
5:AW:46:TRP:CZ3	9:AW:101:BCL:H2C	2.28	0.69
9:BI:102:BCL:C1D	9:BJ:101:BCL:CMD	2.68	0.69
3:BM:197:TYR:CE1	9:BM:402:BCL:HMC2	2.27	0.69
5:BO:25:VAL:CG1	9:BO:102:BCL:H52	2.21	0.69
5:BO:25:VAL:HG13	9:BO:102:BCL:H52	1.72	0.69
1:AC:148:THR:HA	1:AC:322:GLN:HB3	1.74	0.69
3:AM:27:ASN:HD21	5:AO:19:ARG:NH1	1.90	0.69
5:BW:51:ILE:HB	5:BW:52:PRO:CA	2.22	0.69
5:AA:11:ILE:CD1	5:AA:14:ILE:HD11	2.22	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AA:8:LEU:HD22	6:AE:20:ILE:HG23	1.75	0.69
6:AB:44:PRO:C	5:AD:52:PRO:HG3	2.12	0.69
14:AS:104:CRT:H183	9:AU:102:BCL:H91	1.74	0.69
5:AS:36:HIS:O	5:AS:40:LEU:N	2.21	0.69
5:AU:16:ASP:OD2	5:AU:19:ARG:HD3	1.92	0.69
6:AX:32:VAL:O	6:AX:36:HIS:HB2	1.92	0.69
6:B2:20:ILE:CG2	14:B2:102:CRT:H83	2.20	0.69
6:BN:33:VAL:O	6:BN:37:LEU:HD23	1.92	0.69
9:BO:102:BCL:HAC2	9:BP:101:BCL:CBC	2.22	0.69
5:BQ:43:ASP:HB2	5:BS:47:LEU:CA	2.21	0.69
5:BU:11:ILE:HA	14:BU:103:CRT:C5	2.21	0.69
5:BY:12:TRP:NE1	6:BZ:18:HIS:HA	2.06	0.69
1:AC:99:THR:HA	1:AC:103:PRO:HB3	1.74	0.69
2:AL:82:TYR:HA	2:AL:85:ARG:HE	1.56	0.69
5:A3:11:ILE:CA	14:A7:102:CRT:H82	2.23	0.69
5:A7:15:LEU:HB3	5:A7:20:VAL:HG11	1.73	0.69
1:AC:156:HIS:CE1	1:AC:160:PRO:O	2.45	0.69
3:AM:164:ARG:HB3	3:AM:165:PRO:HD3	1.73	0.69
5:AY:32:GLY:HA2	9:AZ:101:BCL:O1D	1.91	0.69
2:BL:110:ALA:O	2:BL:113:GLU:HB2	1.93	0.69
2:BL:230:GLY:O	3:BM:49:GLY:HA2	1.90	0.69
3:BM:89:HIS:O	3:BM:93:LEU:HG	1.92	0.69
14:BO:103:CRT:C34	9:BS:102:BCL:HBA1	2.22	0.69
14:BS:103:CRT:H342	9:BU:102:BCL:CBA	2.09	0.69
5:BU:16:ASP:OD2	5:BU:19:ARG:HD3	1.92	0.69
5:BW:46:TRP:HH2	9:BW:102:BCL:HBC3	1.56	0.69
14:BV:102:CRT:C2M	5:BW:37:MET:CG	2.70	0.69
1:AC:221:SER:O	1:AC:223:PRO:HD3	1.93	0.69
6:AG:45:TRP:HA	5:AI:52:PRO:CD	2.21	0.69
2:AL:185:ALA:HB2	2:AL:252:TRP:HB3	1.74	0.69
2:AL:3:MET:SD	2:AL:8:LYS:HA	2.32	0.69
3:AM:98:PRO:HB3	3:AM:107:PRO:HB3	1.74	0.69
5:AU:16:ASP:HB3	5:AU:18:ARG:HH11	1.57	0.69
5:B3:12:TRP:NE1	6:B4:18:HIS:HB2	2.07	0.69
2:BL:140:LEU:HD12	2:BL:257:ILE:HG21	1.73	0.69
1:AC:96:ALA:C	1:AC:98:THR:H	1.94	0.69
3:BM:166:VAL:HG22	3:BM:171:TRP:CZ3	2.27	0.69
14:A1:103:CRT:H342	9:A5:102:BCL:C3A	2.22	0.69
14:A2:102:CRT:O2	5:A3:36:HIS:HB3	1.92	0.69
14:AA:102:CRT:H9	6:AE:17:PHE:HD1	1.58	0.69
4:AH:14:ILE:O	4:AH:17:TRP:HB2	1.93	0.69
5:AI:10:LYS:C	14:AN:102:CRT:H82	2.13	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AI:55:TYR:HD1	5:AI:56:GLN:N	1.91	0.69
5:AO:46:TRP:HD1	5:AO:47:LEU:HD13	1.58	0.69
5:AS:34:LEU:HB2	15:AS:101:PEF:C43	2.22	0.69
5:AU:30:VAL:HG13	5:AU:31:LEU:H	1.57	0.69
5:AY:28:GLN:CB	9:AY:102:BCL:C2	2.68	0.69
9:BA:101:BCL:C1D	9:BB:101:BCL:CMD	2.71	0.69
4:BH:197:ILE:HA	4:BH:200:SER:OG	1.92	0.69
4:BH:52:ARG:NH1	4:BH:52:ARG:HB3	2.06	0.69
5:BQ:19:ARG:HH12	15:BQ:101:PEF:H51	1.57	0.69
5:BU:32:GLY:HA3	9:BU:102:BCL:O1A	1.93	0.69
5:BU:11:ILE:CG2	14:BU:103:CRT:C8	2.37	0.69
9:BY:102:BCL:HMD1	6:BZ:36:HIS:CD2	2.27	0.69
6:BZ:32:VAL:HG11	9:BZ:101:BCL:HBA2	1.74	0.69
1:BC:157:ARG:NH1	1:BC:318:LEU:HD21	2.07	0.69
4:AH:215:LYS:HE3	4:AH:250:ALA:O	1.93	0.69
3:BM:27:ASN:N	3:BM:27:ASN:HD22	1.90	0.69
5:A3:56:GLN:NE2	5:A3:56:GLN:H	1.89	0.69
1:AC:195:LEU:HB3	1:AC:196:PRO:CD	2.22	0.69
2:AL:102:ALA:HB2	10:AL:302:BPH:H112	1.74	0.69
2:AL:237:ALA:O	2:AL:240:ARG:N	2.25	0.69
3:AM:60:SER:CA	3:AM:128:LEU:HD23	2.23	0.69
6:AX:43:ARG:NH1	5:AY:55:TYR:HB3	2.07	0.69
5:B5:46:TRP:HA	5:B5:49:ASP:CG	2.12	0.69
5:BF:11:ILE:CB	14:BF:103:CRT:H82	2.23	0.69
2:BL:120:LEU:O	2:BL:122:ILE:HG23	1.92	0.69
2:BL:13:ARG:HD2	4:BH:101:VAL:HG22	1.72	0.69
2:BL:3:MET:HG2	2:BL:11:ARG:CZ	2.23	0.69
5:BY:16:ASP:HB3	5:BY:18:ARG:NE	2.07	0.69
1:AC:96:ALA:O	1:AC:98:THR:N	2.25	0.69
5:AF:8:LEU:CA	6:AJ:20:ILE:HD11	2.22	0.69
6:AP:38:LEU:C	6:AP:41:LEU:HD23	2.11	0.69
5:A1:52:PRO:CD	5:A1:55:TYR:OH	2.41	0.69
5:A1:7:ASN:HB3	5:A1:10:LYS:CE	2.21	0.69
6:A2:45:TRP:CD2	9:A2:101:BCL:H2C	2.28	0.69
6:AE:29:PHE:HZ	9:AE:101:BCL:H42	1.57	0.69
9:AK:102:BCL:C1D	9:AN:101:BCL:CMD	2.62	0.69
3:AM:179:ILE:HG12	3:AM:180:PHE:N	2.06	0.69
5:B3:46:TRP:CH2	9:B3:102:BCL:HBC3	2.27	0.69
5:B7:8:LEU:HD13	5:B7:8:LEU:O	1.92	0.69
9:B1:102:BCL:CBC	9:B2:101:BCL:CBC	2.71	0.69
5:B1:11:ILE:CA	14:B1:103:CRT:H81	2.16	0.69
6:B2:20:ILE:HG23	14:B2:102:CRT:C7	2.22	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:B1:17:PRO:HB3	6:B2:17:PHE:CE2	2.28	0.69
1:BC:243:LEU:HD12	1:BC:243:LEU:H	1.57	0.69
1:BC:249:PHE:CD1	1:BC:250:CYS:SG	2.85	0.69
1:BC:291:LEU:HD23	1:BC:292:PRO:HD2	1.73	0.69
5:BI:8:LEU:O	5:BI:11:ILE:HG22	1.91	0.69
2:BL:223:THR:HA	2:BL:226:ARG:HB3	1.74	0.69
3:BM:175:VAL:HG22	3:BM:185:TRP:CD2	2.27	0.69
4:BH:135:PRO:HB3	4:BH:171:TRP:NE1	2.07	0.69
4:BH:231:VAL:CG2	4:BH:235:GLU:HG3	2.22	0.69
3:BM:171:TRP:HA	3:BM:171:TRP:CE3	2.27	0.69
5:A1:44:LEU:CD1	6:A2:43:ARG:HD2	2.21	0.69
5:AF:42:THR:HB	5:AI:47:LEU:HD23	1.75	0.69
4:AH:55:VAL:HG13	4:AH:56:VAL:N	2.05	0.69
2:AL:42:PHE:HB3	2:AL:101:CYS:HB3	1.75	0.69
2:AL:216:LYS:HD2	2:AL:220:HIS:CD2	2.27	0.69
5:AY:8:LEU:HD22	5:AY:11:ILE:HD11	1.74	0.69
6:B2:32:VAL:HG11	9:B2:101:BCL:CBA	2.23	0.69
5:B3:2:PHE:HE1	5:B3:5:ASN:CG	1.96	0.69
5:B3:46:TRP:CZ3	9:B3:102:BCL:CBC	2.76	0.69
9:B9:102:BCL:HMD1	6:B0:36:HIS:CD2	2.28	0.69
5:BF:12:TRP:NE1	6:BG:17:PHE:HD1	1.91	0.69
2:BL:97:ILE:HA	2:BL:100:ILE:CD1	2.23	0.69
3:BM:199:ASN:HD21	3:BM:283:GLY:HA3	1.58	0.69
6:BP:27:ALA:O	6:BP:31:LEU:HG	1.93	0.69
5:BU:2:PHE:HA	5:BU:5:ASN:HD22	1.57	0.69
5:BW:16:ASP:N	5:BW:19:ARG:HE	1.91	0.69
4:BH:227:ASN:HD22	4:BH:228:PRO:CD	1.98	0.69
5:A1:12:TRP:HA	5:A1:12:TRP:CE3	2.28	0.69
1:AC:157:ARG:HE	1:AC:312:GLN:CD	1.96	0.69
6:AB:46:LEU:OXT	6:AE:43:ARG:NH2	2.26	0.69
1:BC:121:ILE:CG2	1:BC:123:THR:HG23	2.22	0.69
5:BF:11:ILE:HD12	5:BF:14:ILE:HD11	1.72	0.69
5:BF:31:LEU:O	5:BF:35:ILE:HG12	1.92	0.69
5:BY:49:ASP:HB2	5:B1:56:GLN:OE1	1.93	0.69
5:A3:12:TRP:HE1	6:A4:18:HIS:CB	2.06	0.69
1:BC:164:TYR:HB3	1:BC:309:THR:HA	1.75	0.69
5:AQ:48:ASP:O	5:AQ:49:ASP:HB3	1.93	0.68
5:AO:11:ILE:HG12	14:AR:102:CRT:H81	1.75	0.68
9:B9:102:BCL:CHD	9:B0:102:BCL:HMD2	2.23	0.68
5:BA:46:TRP:HB2	6:BB:43:ARG:NH2	2.04	0.68
1:BC:195:LEU:HB3	1:BC:196:PRO:CD	2.23	0.68
5:BU:12:TRP:CE3	5:BU:12:TRP:HA	2.28	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BW:19:ARG:HG3	5:BW:20:VAL:N	2.08	0.68
9:A9:102:BCL:HMD1	6:A0:36:HIS:HD2	1.58	0.68
5:A1:11:ILE:HA	14:A1:103:CRT:H82	1.75	0.68
6:A2:16:GLU:HB2	14:A2:102:CRT:C1M	2.23	0.68
1:AC:153:TYR:HB3	1:AC:323:MET:CE	2.23	0.68
3:AM:228:ARG:HD3	4:AH:199:PHE:CE1	2.28	0.68
5:AO:5:ASN:HD22	5:AO:8:LEU:HD21	1.59	0.68
5:AQ:44:LEU:O	5:AQ:44:LEU:HD12	1.93	0.68
5:B7:36:HIS:NE2	9:B8:101:BCL:HMD1	2.09	0.68
2:BL:170:GLY:HA2	2:BL:176:PHE:CD2	2.29	0.68
2:BL:252:TRP:HA	2:BL:252:TRP:CE3	2.28	0.68
2:BL:253:SER:HB3	9:BL:301:BCL:HED3	1.73	0.68
6:BP:21:PHE:CE1	14:BP:102:CRT:H19	2.28	0.68
9:BW:102:BCL:CMD	6:BX:36:HIS:HD2	2.07	0.68
5:BY:26:ALA:O	5:BY:29:ILE:HG22	1.92	0.68
6:B8:46:LEU:HD22	6:B0:42:TYR:CE2	2.28	0.68
2:AL:219:GLU:HG3	4:AH:127:PHE:HB2	1.75	0.68
5:A5:24:ILE:HG21	14:A7:102:CRT:C21	2.23	0.68
1:AC:242:SER:HA	1:AC:308:MET:SD	2.32	0.68
2:AL:71:TRP:N	2:AL:71:TRP:HE3	1.91	0.68
2:AL:4:LEU:HB2	2:AL:7:GLU:HB2	1.75	0.68
3:AM:197:TYR:CE1	9:AM:402:BCL:HMC2	2.29	0.68
6:AR:21:PHE:HB2	14:AR:102:CRT:C14	2.23	0.68
6:AT:21:PHE:CE2	14:AT:102:CRT:H16	2.28	0.68
9:AU:102:BCL:CHD	9:AU:102:BCL:HBC2	2.24	0.68
5:AY:28:GLN:C	9:AY:102:BCL:H12	2.14	0.68
6:B0:36:HIS:HE1	9:B0:102:BCL:C1B	2.06	0.68
5:B3:19:ARG:O	5:B3:23:SER:CB	2.40	0.68
6:BG:46:LEU:HB3	6:BJ:42:TYR:CE2	2.28	0.68
9:BO:102:BCL:H2A	9:BO:102:BCL:O1D	1.92	0.68
6:BE:38:LEU:HD23	6:BE:38:LEU:O	1.94	0.68
6:A8:33:VAL:CG2	9:A8:101:BCL:H142	2.22	0.68
5:A9:26:ALA:O	5:A9:29:ILE:HG22	1.93	0.68
1:AC:274:ARG:HH11	1:AC:274:ARG:HG2	1.59	0.68
2:AL:4:LEU:CD2	3:AM:253:ARG:HH21	2.06	0.68
3:AM:34:PRO:HG3	3:AM:50:PRO:N	2.08	0.68
5:AS:13:LEU:CB	14:AS:104:CRT:C3	2.71	0.68
6:BB:36:HIS:HB3	9:BB:101:BCL:H192	1.74	0.68
1:BC:199:PRO:O	1:BC:203:PHE:HB2	1.94	0.68
3:BM:159:VAL:HA	3:BM:163:ILE:CG2	2.23	0.68
5:BO:25:VAL:HG12	9:BO:102:BCL:H41	1.75	0.68
5:AF:19:ARG:NH2	5:AI:18:ARG:NH2	2.32	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:BE:43:ARG:NH1	5:BF:55:TYR:HD2	1.90	0.68
5:BF:33:LEU:HD12	5:BF:33:LEU:H	1.58	0.68
5:A7:7:ASN:HB2	5:A7:10:LYS:HZ3	1.59	0.68
9:AB:101:BCL:C1B	9:AD:102:BCL:HMB3	2.23	0.68
2:AL:139:VAL:HG23	2:AL:143:VAL:HB	1.75	0.68
2:AL:178:TYR:HB3	2:AL:272:TRP:HD1	1.58	0.68
3:AM:260:VAL:HG22	13:AM:405:MQ8:H112	1.74	0.68
6:AN:17:PHE:O	6:AN:21:PHE:HB3	1.94	0.68
5:AY:12:TRP:NE1	6:AZ:18:HIS:HA	2.06	0.68
6:B2:13:GLU:O	14:B2:102:CRT:C3	2.34	0.68
5:B3:18:ARG:O	5:B3:22:VAL:HG12	1.94	0.68
4:BH:258:LEU:O	5:B5:19:ARG:HD3	1.93	0.68
4:BH:16:ILE:O	4:BH:16:ILE:HD13	1.93	0.68
4:BH:249:TYR:O	4:BH:251:THR:N	2.27	0.68
2:BL:71:TRP:CD1	3:BM:303:MET:HG2	2.29	0.68
3:BM:215:LEU:C	3:BM:217:ALA:H	1.97	0.68
3:BM:215:LEU:HA	3:BM:218:MET:SD	2.34	0.68
6:AZ:10:THR:HG22	6:AZ:11:ASP:N	2.07	0.68
9:AA:101:BCL:HBB3	9:A0:102:BCL:CHC	2.24	0.68
6:A0:17:PHE:HD1	6:A0:18:HIS:CA	2.07	0.68
5:A3:27:PHE:CE2	5:A5:29:ILE:HG13	2.28	0.68
5:AA:32:GLY:CA	9:AB:101:BCL:HED2	2.24	0.68
6:AG:21:PHE:HD1	6:AG:22:MET:CA	2.06	0.68
9:AK:102:BCL:C3D	9:AN:101:BCL:C2D	2.72	0.68
5:AY:28:GLN:O	9:AY:102:BCL:H12	1.93	0.68
6:B8:32:VAL:HG11	9:B8:101:BCL:CBA	2.23	0.68
5:BA:9:TYR:HB2	6:BB:18:HIS:HD2	1.59	0.68
1:BC:166:TRP:HE1	1:BC:305:VAL:C	1.96	0.68
9:BI:102:BCL:CBB	9:BI:102:BCL:HMB1	2.23	0.68
5:BI:11:ILE:CA	14:BN:102:CRT:H82	2.22	0.68
5:BO:9:TYR:CD1	6:BP:15:LYS:HB2	2.29	0.68
5:AF:16:ASP:HB2	5:AF:19:ARG:HB2	1.74	0.68
4:BH:126:THR:HG23	4:BH:130:LEU:O	1.93	0.68
5:A7:2:PHE:N	5:A7:5:ASN:HB2	2.07	0.68
1:BC:66:ASP:OD1	1:BC:67:SER:N	2.26	0.68
3:AM:175:VAL:CG1	3:AM:176:PRO:HD2	2.24	0.68
3:AM:215:LEU:C	3:AM:217:ALA:H	1.95	0.68
5:AS:25:VAL:O	5:AS:29:ILE:HG22	1.92	0.68
5:AS:30:VAL:CG2	15:AS:101:PEF:C41	2.32	0.68
5:AU:43:ASP:HB2	5:AW:47:LEU:HB3	1.76	0.68
14:BB:102:CRT:H2M2	5:BD:37:MET:HE2	1.74	0.68
1:BC:270:TRP:CA	1:BC:273:ILE:HD12	2.22	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:274:ARG:HA	1:BC:277:ARG:CG	2.23	0.68
1:BC:135:ARG:HG2	1:BC:330:LEU:C	2.14	0.68
5:BA:43:ASP:CA	5:BD:48:ASP:HB3	2.24	0.68
9:BE:101:BCL:CHC	9:BF:102:BCL:HBB3	2.23	0.68
5:BF:13:LEU:HD12	14:BF:103:CRT:C1M	2.19	0.68
5:BW:16:ASP:CB	5:BW:19:ARG:HG2	2.23	0.68
6:BV:10:THR:HG22	6:BV:11:ASP:H	1.59	0.68
5:A7:47:LEU:HD22	5:A7:47:LEU:H	1.59	0.68
2:AL:196:LEU:CD1	3:AM:273:ALA:HB2	2.23	0.68
3:AM:114:TRP:HA	3:AM:114:TRP:HE3	1.59	0.68
3:AM:260:VAL:CG2	3:AM:264:SER:OG	2.41	0.68
3:AM:98:PRO:HD2	3:AM:171:TRP:HB3	1.76	0.68
5:BU:45:ASN:OD1	5:BU:47:LEU:HB2	1.94	0.68
14:BU:103:CRT:H31	9:BY:102:BCL:HBA1	1.74	0.68
6:BR:44:PRO:O	5:BS:52:PRO:HG3	1.93	0.68
5:A1:40:LEU:HD12	5:A1:45:ASN:HA	1.76	0.68
5:A7:8:LEU:O	5:A7:8:LEU:HD13	1.94	0.68
5:AA:31:LEU:O	5:AA:35:ILE:HG12	1.93	0.68
14:AA:102:CRT:H23	6:AE:16:GLU:HG3	1.74	0.68
6:AJ:30:GLY:O	6:AJ:34:ILE:HG22	1.92	0.68
6:AP:30:GLY:O	6:AP:34:ILE:CG2	2.42	0.68
5:AY:35:ILE:HG23	5:AY:38:ILE:HD11	1.76	0.68
9:BK:102:BCL:ND	9:BN:101:BCL:HMD2	2.09	0.68
5:BQ:10:LYS:HB2	14:BS:103:CRT:H83	1.76	0.68
6:A0:45:TRP:HE1	9:A0:102:BCL:H192	1.56	0.68
5:A7:25:VAL:HG13	9:A7:103:BCL:C5	2.24	0.68
4:AH:133:ILE:CD1	4:AH:171:TRP:HB3	2.23	0.68
5:AO:28:GLN:NE2	14:AP:102:CRT:H25	2.09	0.68
5:AY:30:VAL:HA	5:AY:33:LEU:HG	1.76	0.68
6:B0:32:VAL:HG21	9:B0:102:BCL:CBA	2.21	0.68
5:B1:9:TYR:HA	6:B2:18:HIS:CG	2.29	0.68
5:BD:10:LYS:HB3	14:BG:102:CRT:H5	1.76	0.68
3:BM:195:ASN:ND2	3:BM:197:TYR:HB2	2.09	0.68
9:BY:102:BCL:CHD	9:BZ:101:BCL:HMD2	2.23	0.68
5:AI:18:ARG:HG3	5:AI:18:ARG:HH11	1.58	0.68
3:AM:12:GLN:HB2	4:AH:145:ALA:HB2	1.76	0.68
6:B4:40:TRP:CZ3	6:B4:44:PRO:HA	2.28	0.68
5:A1:31:LEU:O	5:A1:35:ILE:HG12	1.95	0.67
5:A3:11:ILE:N	14:A7:102:CRT:H82	2.10	0.67
5:AD:50:ASN:CG	5:AD:51:ILE:H	1.96	0.67
5:AQ:44:LEU:CD1	5:AQ:46:TRP:HE3	2.06	0.67
6:AR:33:VAL:O	6:AR:37:LEU:HD23	1.94	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:210:ILE:O	1:BC:210:ILE:HG22	1.93	0.67
5:BK:12:TRP:HB2	6:BN:14:ALA:HB1	1.74	0.67
5:BW:46:TRP:HA	5:BW:49:ASP:OD1	1.94	0.67
4:AH:176:GLU:O	4:AH:178:GLN:N	2.27	0.67
4:AH:221:ASN:HB2	4:AH:242:TYR:OH	1.94	0.67
14:A0:101:CRT:H32	9:A0:102:BCL:HMA2	1.73	0.67
6:AB:27:ALA:O	6:AB:31:LEU:HG	1.95	0.67
5:AF:35:ILE:O	5:AF:38:ILE:HG22	1.93	0.67
2:AL:89:LEU:H	2:AL:89:LEU:HD12	1.58	0.67
6:AN:10:THR:HG22	6:AN:11:ASP:H	1.59	0.67
9:AU:102:BCL:HMB1	9:AU:102:BCL:CBB	2.23	0.67
4:BH:213:ALA:O	4:BH:246:GLY:HA3	1.95	0.67
5:BI:29:ILE:HA	9:BI:102:BCL:H11	1.76	0.67
3:BM:175:VAL:CG1	3:BM:176:PRO:HD2	2.24	0.67
3:BM:179:ILE:HG12	3:BM:180:PHE:H	1.59	0.67
5:BO:31:LEU:O	5:BO:35:ILE:HG12	1.93	0.67
14:BU:103:CRT:C2M	5:BY:37:MET:CA	2.71	0.67
6:BV:20:ILE:HG23	14:BV:102:CRT:C9	2.24	0.67
3:AM:106:ILE:HG12	5:AO:42:THR:HG21	1.75	0.67
1:AC:95:VAL:O	1:AC:98:THR:HB	1.95	0.67
3:BM:114:TRP:HA	3:BM:114:TRP:CE3	2.27	0.67
5:A5:10:LYS:CB	14:A5:103:CRT:H5	2.25	0.67
3:AM:5:GLN:O	3:AM:7:ILE:HG12	1.94	0.67
6:AN:17:PHE:CE1	14:AN:102:CRT:H9	2.29	0.67
5:AI:7:ASN:HD22	6:AN:20:ILE:CG1	2.08	0.67
5:AO:36:HIS:NE2	9:AP:101:BCL:HMD1	2.09	0.67
5:AO:38:ILE:HD13	14:AP:102:CRT:C40	2.24	0.67
5:AY:43:ASP:OD1	5:AY:44:LEU:HD23	1.93	0.67
5:BA:46:TRP:CB	6:BB:43:ARG:NH2	2.54	0.67
4:BH:6:THR:HB	5:BF:41:SER:CB	2.14	0.67
3:BM:159:VAL:HG12	3:BM:284:ILE:HG22	1.74	0.67
5:BY:43:ASP:HB2	5:B1:47:LEU:HG	1.76	0.67
5:A7:2:PHE:CD1	5:A7:3:THR:N	2.62	0.67
1:AC:53:ILE:HG12	1:AC:319:TYR:CZ	2.29	0.67
5:BW:51:ILE:HB	5:BW:52:PRO:HA	1.76	0.67
4:AH:128:GLU:H	4:AH:128:GLU:CD	1.97	0.67
1:BC:85:LEU:HD22	1:BC:89:GLU:HG2	1.75	0.67
5:A1:28:GLN:HB3	9:A1:102:BCL:C2	2.25	0.67
5:A3:28:GLN:HG3	9:A3:103:BCL:H12	1.77	0.67
2:AL:97:ILE:O	2:AL:100:ILE:HB	1.95	0.67
5:AS:10:LYS:CB	14:AS:104:CRT:C1M	2.71	0.67
6:AV:7:THR:CG2	14:AX:102:CRT:C1M	2.72	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:B2:13:GLU:CB	14:B2:102:CRT:H33	2.18	0.67
1:BC:280:ASN:CB	1:BC:304:ARG:HD2	2.24	0.67
4:BH:65:LYS:O	4:BH:77:VAL:HA	1.94	0.67
2:BL:178:TYR:CD2	2:BL:269:PRO:HG3	2.27	0.67
2:BL:46:GLY:HA3	10:BL:302:BPH:H9C3	1.77	0.67
5:BW:8:LEU:O	5:BW:11:ILE:HG13	1.95	0.67
6:A4:37:LEU:HD23	6:A4:38:LEU:N	2.10	0.67
9:A2:101:BCL:HMA1	9:A3:103:BCL:HMA1	1.76	0.67
1:AC:156:HIS:O	1:AC:159:ASN:N	2.28	0.67
1:AC:94:MET:SD	7:AC:501:HEM:NC	2.68	0.67
1:AC:97:VAL:HG13	7:AC:502:HEM:CMB	2.25	0.67
5:AF:49:ASP:HB2	5:AI:56:GLN:HB2	1.77	0.67
9:AG:101:BCL:HMA1	9:AI:102:BCL:HMA1	1.77	0.67
2:AL:185:ALA:N	2:AL:252:TRP:HD1	1.92	0.67
2:AL:184:LEU:CD2	2:AL:252:TRP:HE1	2.07	0.67
2:AL:37:VAL:HG23	2:AL:38:VAL:H	1.58	0.67
2:AL:93:GLY:O	2:AL:97:ILE:HG13	1.93	0.67
5:AU:12:TRP:HE1	6:AV:18:HIS:CA	2.00	0.67
14:AW:102:CRT:H181	9:AY:102:BCL:H92	1.77	0.67
5:B1:13:LEU:HD12	14:B1:103:CRT:H22A	1.70	0.67
5:B9:34:LEU:O	5:B9:38:ILE:HG12	1.95	0.67
4:BH:119:ARG:HG3	4:BH:237:ASP:OD2	1.95	0.67
3:BM:136:ARG:HA	3:BM:136:ARG:HH11	1.59	0.67
5:BO:46:TRP:HD1	5:BO:47:LEU:HD13	1.58	0.67
6:BR:29:PHE:O	6:BR:33:VAL:HB	1.95	0.67
5:BW:5:ASN:HA	5:BW:8:LEU:HD12	1.77	0.67
5:AF:19:ARG:NH1	5:AI:18:ARG:HH21	1.90	0.67
5:BO:18:ARG:HH11	5:BO:18:ARG:HB2	1.57	0.67
4:AH:235:GLU:HA	4:AH:238:LYS:CG	2.25	0.67
5:AI:30:VAL:HA	5:AI:33:LEU:HD23	1.76	0.67
3:AM:138:GLU:C	3:AM:140:LEU:H	1.97	0.67
3:AM:148:TRP:HA	3:AM:148:TRP:CE3	2.30	0.67
3:AM:170:SER:C	3:AM:172:ALA:H	1.98	0.67
5:B5:31:LEU:O	5:B5:35:ILE:HG12	1.94	0.67
5:BA:19:ARG:HH12	5:BD:22:VAL:HG11	1.60	0.67
4:BH:186:VAL:HG12	4:BH:187:ALA:H	1.58	0.67
2:BL:145:PRO:HG3	17:BL:403:HOH:O	1.94	0.67
2:BL:68:TYR:HA	2:BL:73:ILE:HD11	1.77	0.67
3:BM:253:ARG:NH1	3:BM:258:PHE:HA	2.09	0.67
6:BN:37:LEU:O	6:BN:41:LEU:HG	1.94	0.67
5:BQ:44:LEU:HD22	6:BR:43:ARG:CD	2.24	0.67
5:BY:40:LEU:HD12	5:BY:45:ASN:HA	1.76	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:279:PRO:CG	5:BY:41:SER:HB2	2.25	0.67
1:AC:325:LYS:HA	1:AC:331:TYR:OH	1.94	0.67
3:BM:12:GLN:HB2	4:BH:145:ALA:HB2	1.75	0.67
5:BA:2:PHE:HA	5:BA:5:ASN:HD21	1.60	0.67
6:A0:32:VAL:CG1	6:A0:33:VAL:N	2.57	0.67
3:AM:265:ILE:CG2	3:AM:266:HIS:H	2.08	0.67
9:AN:101:BCL:CHC	9:AO:102:BCL:HBB3	2.24	0.67
6:AR:46:LEU:CB	6:AT:42:TYR:OH	2.43	0.67
5:AY:8:LEU:HB3	6:AZ:18:HIS:NE2	2.09	0.67
9:B7:103:BCL:HMD1	6:B8:36:HIS:CD2	2.29	0.67
5:BA:47:LEU:CD1	5:B9:43:ASP:HB2	2.24	0.67
1:BC:36:ARG:O	1:BC:36:ARG:HG3	1.94	0.67
2:BL:137:TYR:O	2:BL:141:VAL:HG12	1.95	0.67
6:BN:21:PHE:CD2	14:BN:102:CRT:H14	2.29	0.67
6:BX:46:LEU:HD22	6:BZ:42:TYR:CZ	2.30	0.67
2:BL:16:THR:OG1	4:BH:257:PRO:HB3	1.95	0.67
5:A3:56:GLN:NE2	5:A3:56:GLN:N	2.42	0.67
2:AL:164:ASP:HA	2:AL:167:SER:OG	1.94	0.67
2:AL:188:PHE:C	2:AL:190:PHE:H	1.97	0.67
9:AL:301:BCL:CBA	9:AM:401:BCL:HBC1	2.23	0.67
5:AY:10:LYS:O	5:AY:13:LEU:HG	1.93	0.67
9:B8:101:BCL:H2A	9:B8:101:BCL:O1D	1.95	0.67
9:B8:101:BCL:CMC	9:B9:102:BCL:HBB1	2.15	0.67
5:BA:46:TRP:HA	6:BB:43:ARG:HH12	1.60	0.67
5:BF:49:ASP:OD2	5:BI:56:GLN:HG2	1.95	0.67
2:BL:190:PHE:CE1	3:BM:209:LEU:HD21	2.30	0.67
9:BL:301:BCL:H2C	9:BM:402:BCL:H2C	1.75	0.67
6:A0:9:LEU:HB3	6:A0:13:GLU:HG3	1.77	0.67
1:AC:105:GLU:OE2	1:AC:105:GLU:N	2.28	0.67
9:AA:101:BCL:HED3	9:A0:102:BCL:H92	1.77	0.67
9:A3:104:BCL:HMB3	9:A5:102:BCL:CHB	2.24	0.67
6:A8:27:ALA:O	6:A8:31:LEU:CG	2.29	0.67
1:AC:203:PHE:HE1	1:AC:210:ILE:HG12	1.59	0.67
5:AD:7:ASN:O	5:AD:10:LYS:HD3	1.94	0.67
9:AF:102:BCL:OBD	6:AG:32:VAL:HG13	1.94	0.67
6:AJ:45:TRP:O	6:AJ:46:LEU:HB2	1.93	0.67
2:AL:163:LEU:HD23	3:AM:197:TYR:HB3	1.77	0.67
2:AL:182:HIS:CA	2:AL:256:CYS:SG	2.83	0.67
6:AN:32:VAL:HG12	9:AN:101:BCL:H141	1.77	0.67
9:AN:101:BCL:C4B	9:AO:102:BCL:HBB3	2.25	0.67
6:AP:38:LEU:HD23	6:AP:39:ALA:N	2.09	0.67
6:AP:45:TRP:O	6:AP:46:LEU:HG	1.95	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AS:104:CRT:C7	6:AV:20:ILE:CD1	2.65	0.67
5:AU:9:TYR:HB2	6:AV:15:LYS:CD	2.25	0.67
5:BD:29:ILE:O	5:BD:33:LEU:HB2	1.95	0.67
2:BL:89:LEU:HA	2:BL:94:LEU:N	2.09	0.67
14:A0:101:CRT:H35	9:A0:102:BCL:HMA1	1.75	0.67
9:A1:102:BCL:C1	9:A1:102:BCL:O1A	2.43	0.67
5:A5:4:MET:HG2	6:A8:24:SER:CB	2.24	0.67
5:A3:13:LEU:CB	14:A7:102:CRT:H1M1	2.19	0.67
2:AL:186:ILE:CD1	9:AL:303:BCL:HMD1	2.24	0.67
3:AM:176:PRO:HD3	3:AM:185:TRP:CD1	2.30	0.67
5:AS:46:TRP:HZ3	9:AS:103:BCL:CBC	2.07	0.67
14:AS:104:CRT:H391	5:AW:36:HIS:CB	2.25	0.67
9:AY:102:BCL:O1D	9:AY:102:BCL:H2A	1.95	0.67
6:B4:13:GLU:C	6:B4:16:GLU:HG2	2.15	0.67
4:BH:241:ALA:O	4:BH:244:ALA:HB3	1.94	0.67
2:BL:150:ALA:CB	2:BL:153:HIS:HB2	2.25	0.67
3:BM:278:ILE:O	3:BM:282:ILE:HG13	1.93	0.67
2:BL:71:TRP:HD1	3:BM:303:MET:HG2	1.59	0.67
5:BI:10:LYS:HB3	14:BN:102:CRT:H5	1.76	0.67
4:BH:153:GLY:H	4:BH:167:VAL:CG2	2.08	0.67
6:BE:10:THR:HG22	6:BE:11:ASP:N	2.10	0.67
1:AC:213:THR:OG1	1:AC:257:ASN:HB2	1.94	0.67
6:A2:16:GLU:CB	14:A2:102:CRT:C1M	2.73	0.66
1:AC:94:MET:SD	7:AC:501:HEM:FE	1.87	0.66
5:AI:43:ASP:OD2	5:AK:47:LEU:HD12	1.95	0.66
2:AL:106:PHE:O	2:AL:110:ALA:HB2	1.95	0.66
2:AL:8:LYS:HD2	4:AH:42:ASP:OD2	1.95	0.66
5:B1:16:ASP:HB3	5:B1:18:ARG:HE	1.59	0.66
5:B3:13:LEU:HD21	6:B4:10:THR:O	1.95	0.66
5:B7:44:LEU:HD21	5:B7:46:TRP:CE3	2.29	0.66
6:BG:32:VAL:HG11	9:BG:101:BCL:CBA	2.21	0.66
6:BN:38:LEU:HD23	6:BN:38:LEU:O	1.94	0.66
5:BW:18:ARG:O	5:BW:22:VAL:CG2	2.42	0.66
6:BX:17:PHE:O	6:BX:20:ILE:HG22	1.95	0.66
5:BY:32:GLY:N	9:BZ:101:BCL:HED2	2.10	0.66
1:BC:157:ARG:HH12	1:BC:318:LEU:HG	1.59	0.66
6:BB:40:TRP:HA	6:BB:40:TRP:CE3	2.29	0.66
9:A2:101:BCL:CBB	9:A2:101:BCL:HMB1	2.25	0.66
1:AC:157:ARG:HE	1:AC:312:GLN:NE2	1.93	0.66
4:AH:69:LEU:HD23	4:AH:70:PRO:HD2	1.77	0.66
5:B7:43:ASP:OD1	5:B7:44:LEU:HD12	1.95	0.66
5:BU:14:ILE:CG1	14:BU:103:CRT:H31A	2.25	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BU:12:TRP:CE3	6:BV:17:PHE:HE2	2.13	0.66
3:BM:104:LEU:CD1	3:BM:169:GLY:HA2	2.22	0.66
2:AL:150:ALA:CB	2:AL:153:HIS:HB2	2.25	0.66
4:BH:235:GLU:HA	4:BH:238:LYS:CG	2.25	0.66
3:BM:70:ILE:HG21	3:BM:118:ALA:HB2	1.77	0.66
5:A1:11:ILE:CG2	14:A1:103:CRT:H81	2.24	0.66
5:A5:8:LEU:HD21	14:A5:103:CRT:H133	1.77	0.66
5:A9:35:ILE:O	5:A9:39:VAL:HG23	1.96	0.66
9:AF:102:BCL:HAC2	9:AG:101:BCL:CBC	2.25	0.66
4:AH:123:CYS:H	4:AH:232:THR:HG22	1.60	0.66
2:AL:155:PHE:HB2	2:AL:156:PRO:HD2	1.75	0.66
2:AL:188:PHE:O	2:AL:190:PHE:N	2.27	0.66
2:AL:38:VAL:HG23	2:AL:39:GLY:H	1.59	0.66
2:AL:43:THR:O	2:AL:47:VAL:HG23	1.94	0.66
6:AX:46:LEU:HD13	6:AZ:42:TYR:OH	1.96	0.66
5:AY:35:ILE:O	5:AY:38:ILE:HG13	1.96	0.66
6:B0:31:LEU:O	6:B0:34:ILE:HG23	1.95	0.66
5:B7:44:LEU:CD2	5:B7:46:TRP:CE3	2.67	0.66
3:BM:286:LEU:HD13	4:BH:12:ALA:HB1	1.77	0.66
6:BP:20:ILE:HD13	14:BP:102:CRT:C6	2.25	0.66
5:BK:11:ILE:CG1	14:BP:102:CRT:H81	2.25	0.66
6:BR:33:VAL:O	6:BR:37:LEU:HD23	1.96	0.66
6:BN:10:THR:HB	6:BN:13:GLU:OE2	1.94	0.66
6:AJ:10:THR:HG22	6:AJ:11:ASP:H	1.61	0.66
6:BT:33:VAL:O	6:BT:37:LEU:HG	1.95	0.66
2:BL:103:ALA:O	2:BL:107:ILE:HG13	1.95	0.66
6:A4:40:TRP:HZ3	6:A4:45:TRP:N	1.93	0.66
9:A7:103:BCL:CHD	9:A8:101:BCL:HMD2	2.25	0.66
5:A7:43:ASP:OD1	5:A7:44:LEU:HD12	1.94	0.66
4:AH:55:VAL:CA	5:AA:19:ARG:HH12	2.05	0.66
5:AA:50:ASN:CG	6:AB:43:ARG:NH2	2.49	0.66
5:AD:36:HIS:O	5:AD:40:LEU:HB2	1.95	0.66
4:AH:197:ILE:HA	4:AH:200:SER:OG	1.94	0.66
4:AH:231:VAL:CG2	4:AH:235:GLU:HG3	2.22	0.66
6:AT:9:LEU:HD22	6:AT:13:GLU:HG3	1.77	0.66
5:BA:51:ILE:HB	5:BA:52:PRO:HA	1.78	0.66
4:BH:196:PRO:HG2	4:BH:199:PHE:HB2	1.76	0.66
2:BL:44:LEU:C	2:BL:46:GLY:H	1.99	0.66
5:A3:46:TRP:CE3	9:A3:103:BCL:H2C	2.30	0.66
9:A5:102:BCL:HBC2	9:A6:101:BCL:HMD2	1.77	0.66
9:A6:101:BCL:C1C	9:A7:103:BCL:HBB3	2.25	0.66
6:A8:29:PHE:CZ	9:A8:101:BCL:H61	2.30	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:227:LYS:O	1:AC:230:GLU:HB3	1.96	0.66
1:AC:249:PHE:CZ	1:AC:265:LYS:HG2	2.29	0.66
6:AG:34:ILE:HD13	6:AG:35:ALA:N	2.11	0.66
2:AL:126:VAL:HB	2:AL:127:PRO:CD	2.23	0.66
2:AL:113:GLU:HB3	2:AL:127:PRO:HG3	1.78	0.66
5:AQ:43:ASP:N	5:AS:47:LEU:HB3	2.11	0.66
14:AS:104:CRT:H393	5:AW:36:HIS:HB2	1.77	0.66
9:B9:102:BCL:CMD	6:B0:36:HIS:HD2	2.08	0.66
6:B0:45:TRP:O	6:B0:46:LEU:HB2	1.94	0.66
5:BY:49:ASP:HB2	5:B1:56:GLN:HE22	1.61	0.66
6:B8:27:ALA:O	6:B8:31:LEU:CG	2.29	0.66
6:BB:17:PHE:HB2	14:BB:102:CRT:H21A	1.77	0.66
5:BD:36:HIS:NE2	9:BE:101:BCL:HMD1	2.09	0.66
5:BI:50:ASN:OD1	6:BJ:43:ARG:NH2	2.29	0.66
2:BL:10:TYR:OH	3:BM:246:GLU:HG2	1.95	0.66
3:BM:179:ILE:CD1	3:BM:179:ILE:H	1.92	0.66
5:BO:50:ASN:CG	5:BO:51:ILE:H	1.98	0.66
5:AI:18:ARG:O	5:AI:22:VAL:HG12	1.95	0.66
6:AT:34:ILE:HD13	6:AT:34:ILE:O	1.95	0.66
5:A9:40:LEU:HD12	5:A9:45:ASN:HA	1.78	0.66
6:AX:33:VAL:HG22	6:AX:37:LEU:HD23	1.78	0.66
5:A1:12:TRP:HE3	5:A1:12:TRP:HA	1.61	0.66
5:A7:29:ILE:HG23	5:A7:30:VAL:H	1.60	0.66
3:AM:134:TYR:HA	3:AM:144:GLN:NE2	2.10	0.66
3:AM:164:ARG:HA	3:AM:167:MET:HB3	1.76	0.66
6:AN:36:HIS:ND1	9:AN:101:BCL:H162	2.09	0.66
5:AQ:27:PHE:HE2	5:AS:29:ILE:CD1	2.08	0.66
14:AS:104:CRT:H2M1	5:AW:37:MET:CB	2.26	0.66
6:AV:32:VAL:HG11	9:AV:102:BCL:HBA2	1.78	0.66
9:AW:101:BCL:C1D	9:AX:101:BCL:CMD	2.74	0.66
6:B2:21:PHE:HB2	14:B2:102:CRT:C11	2.21	0.66
5:B3:14:ILE:CD1	6:B6:17:PHE:HE2	2.09	0.66
6:B8:33:VAL:HG23	9:B8:101:BCL:H143	1.77	0.66
2:BL:188:PHE:O	2:BL:190:PHE:N	2.29	0.66
5:BQ:43:ASP:OD1	5:BQ:44:LEU:CG	2.42	0.66
6:BV:20:ILE:CG2	14:BV:102:CRT:C6	2.74	0.66
1:BC:57:GLN:NE2	1:BC:58:PRO:HD2	2.10	0.66
6:A0:40:TRP:HZ3	6:A0:45:TRP:N	1.94	0.66
5:A1:5:ASN:OD1	5:A1:8:LEU:HD12	1.94	0.66
5:AA:43:ASP:HA	5:AD:48:ASP:CB	2.21	0.66
4:AH:65:LYS:O	4:AH:77:VAL:HA	1.95	0.66
1:AC:192:TYR:O	2:AL:269:PRO:HB3	1.95	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AM:291:VAL:HG11	3:AM:297:TRP:HB2	1.77	0.66
6:AN:20:ILE:HD12	6:AN:20:ILE:N	2.09	0.66
5:AS:46:TRP:CZ3	9:AS:103:BCL:CB	2.78	0.66
6:B0:36:HIS:CE1	9:B0:102:BCL:C1B	2.79	0.66
5:B5:32:GLY:CA	9:B5:102:BCL:O1A	2.43	0.66
3:BM:290:VAL:HG11	4:BH:12:ALA:HB2	1.77	0.66
6:BJ:38:LEU:O	6:BJ:38:LEU:HD23	1.96	0.66
5:BK:16:ASP:HB2	5:BK:19:ARG:HG2	1.77	0.66
2:BL:148:MET:HE1	2:BL:262:PRO:HD3	1.77	0.66
2:BL:206:VAL:HG12	3:BM:142:MET:CE	2.26	0.66
2:BL:243:LEU:O	2:BL:247:LEU:HB2	1.96	0.66
2:BL:259:ILE:HA	2:BL:263:PHE:HB2	1.78	0.66
3:BM:268:TRP:CD2	4:BH:30:LEU:HD13	2.30	0.66
6:BB:40:TRP:HE3	6:BB:40:TRP:HA	1.60	0.66
5:BA:17:PRO:O	5:BA:21:LEU:CB	2.43	0.66
6:B2:46:LEU:HB2	5:B3:52:PRO:HD2	1.77	0.66
5:BK:33:LEU:HD12	5:BK:34:LEU:N	2.11	0.66
6:AB:44:PRO:HG2	5:AD:52:PRO:CB	2.26	0.66
5:AI:39:VAL:HG11	9:AI:102:BCL:CB	2.26	0.66
5:AF:8:LEU:HD23	6:AJ:20:ILE:HD11	1.77	0.66
6:AJ:31:LEU:O	6:AJ:34:ILE:HG23	1.96	0.66
2:AL:89:LEU:H	2:AL:89:LEU:CD1	2.09	0.66
5:B5:32:GLY:HA3	9:B5:102:BCL:O1A	1.96	0.66
5:B5:43:ASP:CG	5:B7:47:LEU:O	2.33	0.66
1:BC:263:THR:HG22	3:BM:311:VAL:CB	2.26	0.66
6:BG:46:LEU:HB3	6:BJ:42:TYR:CZ	2.31	0.66
4:BH:47:GLU:HG3	5:BA:19:ARG:CB	2.26	0.66
3:BM:63:PHE:CD2	3:BM:124:LEU:HB2	2.31	0.66
5:BW:19:ARG:HG3	5:BW:20:VAL:H	1.60	0.66
6:B2:41:LEU:HD12	6:B2:41:LEU:C	2.15	0.66
1:BC:99:THR:HA	1:BC:103:PRO:HB3	1.76	0.66
6:B4:46:LEU:HB2	5:B5:52:PRO:HD3	1.76	0.66
3:BM:114:TRP:HA	3:BM:114:TRP:HE3	1.59	0.66
6:B4:37:LEU:HD23	6:B4:38:LEU:N	2.11	0.66
1:BC:187:SER:O	1:BC:189:THR:N	2.28	0.66
9:A0:102:BCL:H192	9:A0:102:BCL:OBB	1.96	0.66
5:A1:15:LEU:HA	5:A3:18:ARG:NH1	2.07	0.66
6:A6:29:PHE:CE1	9:A6:101:BCL:C1	2.79	0.66
6:A6:29:PHE:O	6:A6:33:VAL:HG23	1.96	0.66
2:AL:273:ASN:HD22	2:AL:276:LEU:HD23	1.60	0.66
14:B2:102:CRT:H2M3	5:B3:40:LEU:HD11	1.78	0.66
5:BD:35:ILE:HG13	9:BE:101:BCL:O1D	1.96	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BF:7:ASN:CG	6:BJ:20:ILE:HD13	2.16	0.66
4:BH:106:PRO:HA	4:BH:109:SER:OG	1.96	0.66
5:A7:9:TYR:HA	6:A8:18:HIS:ND1	2.10	0.66
5:A9:46:TRP:CH2	9:A9:102:BCL:HBC3	2.31	0.66
5:AS:8:LEU:HB2	6:AT:18:HIS:NE2	2.11	0.66
5:AU:30:VAL:HG13	5:AU:31:LEU:N	2.11	0.66
9:AZ:101:BCL:C1B	9:A1:102:BCL:HMB3	2.26	0.66
9:B1:102:BCL:HBC1	9:B2:101:BCL:CBC	2.25	0.66
5:B3:27:PHE:HE1	5:B3:31:LEU:HD22	1.61	0.66
5:B3:10:LYS:HB3	14:B7:102:CRT:H5	1.76	0.66
9:B7:103:BCL:CHD	9:B8:101:BCL:HMD2	2.26	0.66
4:BH:69:LEU:CB	4:BH:70:PRO:HD2	2.25	0.66
9:BG:101:BCL:CMB	9:BI:102:BCL:C1B	2.74	0.66
5:BK:32:GLY:HA3	9:BK:102:BCL:O1A	1.96	0.66
2:BL:70:LEU:HB3	2:BL:159:ILE:HG12	1.78	0.66
5:BU:49:ASP:CG	5:BU:50:ASN:N	2.50	0.66
2:AL:82:TYR:CB	2:AL:85:ARG:HE	2.09	0.66
6:A0:38:LEU:O	6:A0:38:LEU:HD23	1.96	0.66
6:A0:31:LEU:O	6:A0:34:ILE:HG23	1.95	0.65
6:A6:20:ILE:HD13	6:A6:20:ILE:O	1.96	0.65
6:AB:45:TRP:O	6:AB:46:LEU:HB2	1.96	0.65
1:AC:182:GLY:O	1:AC:196:PRO:HA	1.96	0.65
1:AC:253:THR:HG21	2:AL:168:ASN:HA	1.78	0.65
5:AD:44:LEU:O	5:AD:44:LEU:HD12	1.95	0.65
5:AF:27:PHE:HE1	5:AI:29:ILE:HD11	1.55	0.65
2:AL:190:PHE:CE1	3:AM:209:LEU:HD21	2.31	0.65
2:AL:167:SER:HA	9:AL:301:BCL:HBC1	1.78	0.65
3:AM:104:LEU:HD21	3:AM:169:GLY:CA	2.26	0.65
3:AM:152:ALA:CB	3:AM:274:VAL:HG13	2.26	0.65
14:B0:101:CRT:H32	9:B0:102:BCL:CMA	2.27	0.65
14:B5:103:CRT:H342	9:B9:102:BCL:CBA	2.18	0.65
5:BA:47:LEU:HD12	5:B9:43:ASP:CB	2.24	0.65
9:BD:102:BCL:ND	9:BE:101:BCL:HMD2	2.11	0.65
2:BL:253:SER:OG	9:BL:301:BCL:HAA2	1.96	0.65
3:BM:165:PRO:HB3	3:BM:174:ALA:HB2	1.78	0.65
3:BM:215:LEU:HD12	3:BM:218:MET:SD	2.37	0.65
9:BU:102:BCL:HBC2	9:BU:102:BCL:CHD	2.26	0.65
5:BU:14:ILE:HG13	14:BU:103:CRT:H33	0.74	0.65
1:AC:325:LYS:HA	1:AC:331:TYR:HH	1.58	0.65
3:BM:27:ASN:HD21	5:BO:19:ARG:HH11	1.44	0.65
3:BM:148:TRP:CE3	3:BM:148:TRP:HA	2.32	0.65
1:BC:104:LYS:HB3	1:BC:105:GLU:OE2	1.97	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:A3:31:LEU:O	5:A3:35:ILE:HG12	1.96	0.65
5:AA:50:ASN:ND2	5:AA:51:ILE:HG12	2.10	0.65
4:AH:119:ARG:HG3	4:AH:237:ASP:OD2	1.96	0.65
3:AM:268:TRP:CD2	4:AH:30:LEU:HD13	2.30	0.65
2:AL:140:LEU:HD21	9:AM:401:BCL:HMC1	1.78	0.65
3:AM:186:THR:HA	9:AM:402:BCL:HMD2	1.76	0.65
5:AY:26:ALA:O	5:AY:29:ILE:HG22	1.96	0.65
5:B1:10:LYS:C	14:B1:103:CRT:H83	2.17	0.65
5:B1:10:LYS:HD2	6:B4:20:ILE:CB	2.26	0.65
1:BC:179:LYS:N	1:BC:180:PRO:HD3	2.11	0.65
6:BE:45:TRP:HA	5:BF:52:PRO:HG2	1.78	0.65
4:BH:52:ARG:O	4:BH:54:LYS:HG2	1.95	0.65
1:BC:36:ARG:HB3	2:BL:79:ASP:OD1	1.97	0.65
3:BM:159:VAL:HG13	3:BM:285:LEU:HD13	1.79	0.65
6:BZ:46:LEU:HB3	5:B1:52:PRO:HD3	1.76	0.65
6:AZ:33:VAL:HG22	6:AZ:37:LEU:HD12	1.77	0.65
5:AF:44:LEU:HB3	5:AI:55:TYR:OH	1.96	0.65
5:AI:44:LEU:HD23	5:AK:55:TYR:HE2	1.61	0.65
9:B2:101:BCL:C4A	9:B3:102:BCL:HMB3	2.25	0.65
6:B6:29:PHE:O	6:B6:33:VAL:HG23	1.97	0.65
5:B7:37:MET:N	14:B7:102:CRT:H2M1	2.10	0.65
9:BN:101:BCL:H172	6:BP:38:LEU:HD22	1.78	0.65
3:BM:171:TRP:HA	3:BM:171:TRP:HE3	1.60	0.65
1:BC:85:LEU:HD11	1:BC:329:GLY:HA3	1.77	0.65
6:AV:33:VAL:O	6:AV:37:LEU:HD23	1.96	0.65
2:AL:211:LYS:HD3	2:AL:212:GLY:N	2.11	0.65
6:A2:21:PHE:HD1	14:A2:102:CRT:C14	2.09	0.65
6:A6:20:ILE:HG21	14:A7:102:CRT:C6	2.27	0.65
5:A7:18:ARG:O	5:A7:22:VAL:HG12	1.97	0.65
5:A7:31:LEU:O	5:A7:35:ILE:HG13	1.96	0.65
9:A8:101:BCL:C1C	9:A9:102:BCL:CBB	2.74	0.65
14:AA:102:CRT:H35	5:AD:31:LEU:HD11	1.76	0.65
6:AB:20:ILE:CD1	14:AB:102:CRT:H10	2.21	0.65
6:AJ:34:ILE:HD13	6:AJ:35:ALA:N	2.12	0.65
6:AR:42:TYR:CD2	6:AR:43:ARG:HG3	2.32	0.65
5:AS:34:LEU:HB2	15:AS:101:PEF:C44	2.26	0.65
5:AW:27:PHE:CE2	5:AY:29:ILE:HG12	2.32	0.65
5:AW:4:MET:HG3	6:AZ:24:SER:HA	1.77	0.65
6:AX:43:ARG:HH12	5:AY:55:TYR:HB3	1.61	0.65
9:B8:101:BCL:NC	9:B9:102:BCL:HBB3	2.11	0.65
5:BI:36:HIS:NE2	9:BJ:101:BCL:HMD1	2.10	0.65
2:BL:237:ALA:HA	2:BL:240:ARG:HD2	1.79	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:BL:303:BCL:HMB1	9:BL:303:BCL:CBB	2.27	0.65
9:BL:303:BCL:HBC1	9:BM:402:BCL:CBD	2.26	0.65
5:BO:38:ILE:HG13	5:BO:39:VAL:H	1.62	0.65
1:AC:41:GLU:OE1	2:AL:153:HIS:CD2	2.50	0.65
3:AM:300:LYS:O	4:AH:8:TYR:HB2	1.97	0.65
6:B4:40:TRP:HZ3	6:B4:45:TRP:N	1.93	0.65
6:B0:38:LEU:O	6:B0:38:LEU:HD23	1.96	0.65
6:BZ:33:VAL:HG22	6:BZ:37:LEU:HD12	1.78	0.65
5:AA:37:MET:O	5:AA:41:SER:HB2	1.96	0.65
1:AC:153:TYR:CE1	1:AC:157:ARG:HA	2.32	0.65
1:AC:210:ILE:HB	7:AC:503:HEM:O2D	1.96	0.65
2:AL:182:HIS:CE1	2:AL:186:ILE:HD11	2.32	0.65
2:AL:194:LEU:O	2:AL:198:MET:HG3	1.97	0.65
5:AK:5:ASN:HD21	6:AN:22:MET:HE2	1.62	0.65
5:AO:10:LYS:O	5:AO:13:LEU:HD22	1.95	0.65
9:AZ:101:BCL:HMB3	9:A1:102:BCL:CHB	2.25	0.65
14:B2:102:CRT:C34	9:B3:102:BCL:HBA1	2.23	0.65
5:B7:36:HIS:CB	14:B7:102:CRT:C39	2.74	0.65
2:BL:160:LEU:O	2:BL:163:LEU:HB2	1.96	0.65
2:BL:192:ASN:HD22	2:BL:193:CYS:N	1.94	0.65
2:BL:211:LYS:HD3	2:BL:212:GLY:H	1.62	0.65
3:BM:314:VAL:HG12	3:BM:315:ASN:H	1.62	0.65
4:BH:171:TRP:HE1	4:BH:183:GLU:HG3	1.61	0.65
2:BL:22:LEU:HB2	5:B7:19:ARG:HB2	1.77	0.65
1:AC:90:PHE:C	1:AC:90:PHE:CD1	2.70	0.65
5:A9:16:ASP:HB3	5:A9:19:ARG:HB2	1.77	0.65
6:A0:40:TRP:HZ3	6:A0:45:TRP:H	1.44	0.65
5:AA:27:PHE:HE1	5:AD:29:ILE:CD1	2.10	0.65
5:AI:44:LEU:HD12	5:AI:44:LEU:O	1.96	0.65
2:AL:270:GLU:O	2:AL:273:ASN:N	2.29	0.65
3:AM:131:VAL:C	3:AM:133:THR:H	1.99	0.65
9:AO:102:BCL:HAC2	9:AP:101:BCL:CBC	2.26	0.65
6:AZ:22:MET:O	6:AZ:25:MET:HB3	1.97	0.65
1:BC:269:ALA:O	1:BC:273:ILE:HG13	1.95	0.65
5:BD:22:VAL:HA	5:BD:25:VAL:HG23	1.76	0.65
5:BW:24:ILE:CD1	9:BY:102:BCL:H18	2.23	0.65
1:AC:91:THR:O	1:AC:95:VAL:HG23	1.96	0.65
6:BV:10:THR:HG22	6:BV:11:ASP:N	2.11	0.65
1:AC:66:ASP:OD1	1:AC:67:SER:N	2.29	0.65
9:AA:101:BCL:HMB3	9:A0:102:BCL:CHB	2.26	0.65
6:AE:22:MET:HG3	6:AE:26:TYR:HE1	1.62	0.65
5:AK:5:ASN:HA	5:AK:8:LEU:HD12	1.79	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:137:TYR:HD1	2:AL:138:LEU:HD12	1.60	0.65
3:AM:159:VAL:HG21	3:AM:281:GLY:HA3	1.76	0.65
5:B7:35:ILE:HD12	9:B8:101:BCL:O1D	1.96	0.65
5:BF:45:ASN:CB	5:BF:49:ASP:HB3	2.20	0.65
5:BI:33:LEU:HD12	5:BI:34:LEU:N	2.11	0.65
2:BL:140:LEU:O	2:BL:141:VAL:HB	1.96	0.65
3:BM:159:VAL:HG21	3:BM:281:GLY:HA3	1.78	0.65
3:BM:164:ARG:HD2	3:BM:284:ILE:O	1.97	0.65
5:BO:50:ASN:ND2	6:BP:43:ARG:NH2	2.44	0.65
5:BO:50:ASN:OD1	6:BP:43:ARG:NH2	2.29	0.65
5:BW:21:LEU:O	5:BW:25:VAL:HG23	1.97	0.65
1:AC:142:LYS:O	1:AC:146:ALA:HA	1.96	0.65
1:BC:169:ASP:OD1	1:BC:170:PRO:HD2	1.97	0.65
4:AH:78:ALA:HA	4:AH:79:PRO:C	2.16	0.65
2:AL:202:LEU:HD13	2:AL:224:PHE:CD2	2.31	0.65
3:AM:297:TRP:HZ3	3:AM:303:MET:SD	2.20	0.65
6:AN:45:TRP:CD1	6:AN:46:LEU:HG	2.32	0.65
6:AR:45:TRP:CZ3	9:AR:101:BCL:HAC2	2.32	0.65
6:B0:17:PHE:CB	14:B0:101:CRT:H6	2.18	0.65
5:BU:12:TRP:CZ2	6:BV:21:PHE:CD2	2.85	0.65
5:BU:19:ARG:NE	5:BW:18:ARG:HH22	1.95	0.65
1:BC:53:ILE:HA	1:BC:319:TYR:CE1	2.31	0.65
6:BX:40:TRP:O	6:BX:44:PRO:HG3	1.96	0.65
9:A2:101:BCL:C4A	9:A3:103:BCL:HMB3	2.27	0.65
9:A3:103:BCL:C1D	9:A3:104:BCL:CMD	2.75	0.65
4:AH:47:GLU:HG3	5:AA:19:ARG:CA	2.27	0.65
1:AC:167:VAL:HG21	1:AC:298:PRO:HD2	1.78	0.65
6:AG:30:GLY:O	6:AG:34:ILE:HG22	1.97	0.65
4:AH:135:PRO:HB3	4:AH:171:TRP:NE1	2.12	0.65
5:AK:5:ASN:ND2	6:AN:22:MET:CE	2.60	0.65
2:AL:204:LEU:HD11	3:AM:267:ARG:CD	2.27	0.65
3:AM:264:SER:O	3:AM:267:ARG:CB	2.45	0.65
3:AM:75:MET:O	3:AM:78:SER:HB3	1.96	0.65
9:AY:102:BCL:CHD	9:AZ:101:BCL:HMD2	2.26	0.65
5:AY:38:ILE:HD12	5:AY:39:VAL:HG23	1.79	0.65
2:BL:43:THR:O	2:BL:47:VAL:HG23	1.96	0.65
3:BM:83:VAL:O	3:BM:87:LEU:HD23	1.97	0.65
14:BP:102:CRT:O2	5:BQ:33:LEU:HD12	1.96	0.65
6:BP:20:ILE:HG21	14:BP:102:CRT:H6	1.79	0.65
5:BU:28:GLN:HB3	9:BU:102:BCL:C2	2.27	0.65
5:BU:12:TRP:CG	6:BV:17:PHE:CD2	2.85	0.65
9:BV:101:BCL:HMA1	9:BW:102:BCL:HHB	1.79	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:A1:102:BCL:H71	6:A2:28:TRP:CE3	2.32	0.65
5:A1:7:ASN:CB	5:A1:10:LYS:HE3	2.24	0.65
5:A1:12:TRP:CE2	6:A2:17:PHE:CE2	2.85	0.65
1:AC:173:LYS:HE3	5:AU:42:THR:HG22	1.78	0.65
1:AC:255:ALA:HB1	1:AC:258:ASP:HB3	1.79	0.65
1:AC:283:TYR:O	1:AC:286:PRO:HD2	1.97	0.65
4:AH:153:GLY:H	4:AH:167:VAL:CG2	2.10	0.65
9:AJ:101:BCL:HMC3	9:AK:102:BCL:HBB1	1.78	0.65
5:AO:26:ALA:O	5:AO:29:ILE:HG22	1.97	0.65
5:AS:10:LYS:O	5:AS:13:LEU:HB2	1.96	0.65
5:AY:8:LEU:HD12	6:AZ:22:MET:HE3	1.79	0.65
5:B1:10:LYS:HD2	6:B4:20:ILE:CG1	2.27	0.65
5:B9:26:ALA:O	5:B9:29:ILE:HG22	1.95	0.65
14:BG:102:CRT:H2M3	5:BI:36:HIS:CB	2.27	0.65
2:BL:186:ILE:HD13	9:BL:303:BCL:CMD	2.25	0.65
3:BM:290:VAL:HG12	3:BM:291:VAL:N	2.12	0.65
6:B0:9:LEU:HB3	6:B0:13:GLU:HG3	1.77	0.65
6:AE:33:VAL:O	6:AE:37:LEU:HD23	1.96	0.65
6:BT:30:GLY:O	6:BT:34:ILE:HG23	1.97	0.65
5:A1:10:LYS:HD2	6:A4:20:ILE:HG13	1.78	0.64
1:AC:282:ASN:C	1:AC:283:TYR:HD1	2.01	0.64
6:AG:45:TRP:HD1	6:AG:46:LEU:N	1.95	0.64
2:AL:133:ALA:HB2	10:AL:302:BPH:HAC2	1.79	0.64
9:AL:303:BCL:CBB	9:AL:303:BCL:HMB1	2.28	0.64
5:AY:51:ILE:HB	5:AY:52:PRO:CA	2.26	0.64
5:B5:16:ASP:HB2	5:B5:19:ARG:HH21	1.63	0.64
9:BE:101:BCL:HBB2	9:BE:101:BCL:HMB1	1.77	0.64
5:BF:35:ILE:O	5:BF:38:ILE:HG22	1.96	0.64
9:BK:102:BCL:HMD1	6:BN:36:HIS:HD2	1.62	0.64
2:BL:29:PRO:HG2	3:BM:257:GLY:HA2	1.79	0.64
14:BV:102:CRT:H2M3	5:BW:37:MET:CB	2.27	0.64
5:BY:46:TRP:CZ3	9:BY:102:BCL:HBC3	2.32	0.64
5:BY:51:ILE:HB	5:BY:52:PRO:HA	1.79	0.64
5:BU:43:ASP:HB2	5:BW:47:LEU:HB3	1.80	0.64
4:BH:106:PRO:HA	4:BH:109:SER:CB	2.28	0.64
9:A1:102:BCL:HMB1	9:A1:102:BCL:CBB	2.27	0.64
9:A1:102:BCL:ND	9:A2:101:BCL:HMD2	2.12	0.64
6:AG:28:TRP:HE1	6:AG:32:VAL:HG21	1.59	0.64
9:AI:102:BCL:HBC2	9:AJ:101:BCL:HHD	1.79	0.64
2:AL:143:VAL:HG12	2:AL:258:LEU:HD11	1.77	0.64
3:AM:103:GLY:O	3:AM:104:LEU:HD13	1.96	0.64
5:AO:9:TYR:CE1	6:AP:15:LYS:HD2	2.32	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AR:29:PHE:O	6:AR:33:VAL:HB	1.97	0.64
5:AY:5:ASN:CG	6:AZ:18:HIS:HD2	2.01	0.64
6:B0:40:TRP:HB2	9:B0:102:BCL:H191	1.79	0.64
6:B0:32:VAL:CG1	6:B0:33:VAL:N	2.59	0.64
5:BF:12:TRP:HE1	6:BG:17:PHE:HD1	1.43	0.64
4:BH:182:LEU:HD13	4:BH:195:LEU:HD23	1.79	0.64
2:BL:241:LEU:O	2:BL:244:PHE:HB3	1.97	0.64
1:BC:192:TYR:O	2:BL:269:PRO:HB3	1.97	0.64
3:BM:229:PHE:CD1	3:BM:229:PHE:N	2.64	0.64
5:BO:9:TYR:CE1	6:BP:15:LYS:HB2	2.32	0.64
6:BP:17:PHE:HA	6:BP:20:ILE:HG22	1.78	0.64
5:BY:11:ILE:HD13	9:B1:102:BCL:H151	1.79	0.64
6:BN:10:THR:HG22	6:BN:11:ASP:N	2.07	0.64
6:AE:10:THR:HG22	6:AE:11:ASP:N	2.11	0.64
2:AL:70:LEU:HB3	2:AL:159:ILE:HG12	1.79	0.64
6:A0:36:HIS:CE1	9:A0:102:BCL:C1B	2.80	0.64
6:A8:33:VAL:CG2	9:A8:101:BCL:H143	2.27	0.64
1:AC:100:TRP:HB3	1:AC:152:CYS:HB2	1.80	0.64
3:AM:104:LEU:HD21	3:AM:169:GLY:HA2	1.78	0.64
5:AY:13:LEU:CD2	6:AZ:14:ALA:HB2	2.27	0.64
6:B6:20:ILE:O	6:B6:20:ILE:HD13	1.96	0.64
5:BD:46:TRP:CH2	9:BD:102:BCL:CBC	2.79	0.64
9:BE:101:BCL:HMB3	9:BF:102:BCL:CHB	2.26	0.64
2:BL:182:HIS:CE1	2:BL:186:ILE:HD11	2.32	0.64
3:BM:200:PRO:HA	3:BM:203:MET:HG2	1.79	0.64
3:BM:240:HIS:NE2	4:BH:69:LEU:HD21	2.12	0.64
1:AC:98:THR:O	1:AC:103:PRO:HD3	1.98	0.64
1:AC:112:VAL:HG12	1:AC:113:PRO:HD2	1.79	0.64
5:A1:44:LEU:O	5:A1:44:LEU:HG	1.97	0.64
1:AC:298:PRO:C	1:AC:300:GLY:H	1.99	0.64
1:AC:130:MET:SD	7:AC:502:HEM:NC	2.70	0.64
4:AH:48:ARG:HD3	15:AH:301:PEF:H42	1.78	0.64
5:AU:38:ILE:HD11	5:AW:40:LEU:CD2	2.28	0.64
6:B0:17:PHE:HD1	14:B0:101:CRT:H9	1.53	0.64
5:B1:12:TRP:CH2	5:B1:20:VAL:HG11	2.32	0.64
5:B5:31:LEU:HA	5:B5:34:LEU:HB3	1.79	0.64
6:BB:20:ILE:HG21	14:BB:102:CRT:H83	1.78	0.64
1:BC:182:GLY:O	1:BC:196:PRO:HA	1.96	0.64
9:BF:102:BCL:HBA2	9:BG:101:BCL:OBD	1.98	0.64
4:AH:88:ASN:ND2	4:AH:109:SER:HB2	2.12	0.64
5:BO:4:MET:CE	6:BR:23:GLN:HB2	2.27	0.64
6:A0:18:HIS:O	6:A0:22:MET:HB2	1.98	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:A8:43:ARG:HH21	5:A9:55:TYR:HB2	1.62	0.64
1:AC:157:ARG:HH12	1:AC:318:LEU:CG	2.11	0.64
5:AD:5:ASN:HD22	6:AE:22:MET:HG2	1.62	0.64
3:AM:34:PRO:HA	3:AM:48:ILE:O	1.98	0.64
5:AS:10:LYS:HG2	14:AS:104:CRT:H1M1	1.79	0.64
5:AS:30:VAL:HG22	15:AS:101:PEF:C40	2.25	0.64
6:B0:34:ILE:HD13	6:B0:35:ALA:N	2.13	0.64
5:B5:20:VAL:HA	5:B5:23:SER:HB3	1.79	0.64
5:B5:31:LEU:HD12	5:B5:34:LEU:HD23	1.78	0.64
9:B5:102:BCL:C1D	9:B6:101:BCL:HMD2	2.28	0.64
6:B8:34:ILE:HG12	6:B8:37:LEU:HD23	1.77	0.64
5:BA:36:HIS:CD2	9:BB:101:BCL:HMD1	2.33	0.64
5:BD:31:LEU:O	5:BD:35:ILE:HG12	1.98	0.64
9:BI:102:BCL:ND	9:BJ:101:BCL:HMD2	2.12	0.64
3:BM:199:ASN:HA	3:BM:294:TRP:CE3	2.32	0.64
3:BM:34:PRO:HG2	3:BM:50:PRO:HD3	1.80	0.64
3:BM:76:LEU:HD23	5:BU:37:MET:HE3	1.80	0.64
5:BW:45:ASN:O	5:BW:49:ASP:HB3	1.98	0.64
6:B0:11:ASP:O	6:B0:15:LYS:HG3	1.98	0.64
1:BC:90:PHE:C	1:BC:90:PHE:CD1	2.69	0.64
6:A8:34:ILE:HG12	6:A8:37:LEU:HD23	1.77	0.64
1:AC:264:PRO:HG2	1:AC:265:LYS:HD2	1.77	0.64
5:AD:35:ILE:HG13	9:AE:101:BCL:O1D	1.98	0.64
5:AW:5:ASN:CA	5:AW:8:LEU:HD12	2.26	0.64
5:B7:10:LYS:HD3	6:B0:20:ILE:HD12	1.79	0.64
9:B6:101:BCL:C1C	9:B7:103:BCL:HBB3	2.27	0.64
9:B7:103:BCL:HMD2	9:B8:101:BCL:C1D	2.28	0.64
1:BC:20:LEU:HG	2:BL:271:TRP:HE1	1.62	0.64
4:BH:47:GLU:HG3	5:BA:19:ARG:HG3	1.78	0.64
3:BM:40:LEU:CD1	3:BM:48:ILE:HD11	2.27	0.64
6:BN:30:GLY:O	6:BN:34:ILE:HG22	1.98	0.64
5:BQ:35:ILE:HA	5:BQ:38:ILE:CG2	2.28	0.64
5:BY:9:TYR:CD1	6:BZ:15:LYS:HG2	2.33	0.64
5:BU:43:ASP:HB2	5:BW:47:LEU:HD22	1.78	0.64
6:AG:12:ASP:O	6:AG:16:GLU:HG3	1.97	0.64
2:AL:211:LYS:HD3	2:AL:212:GLY:H	1.62	0.64
6:A2:25:MET:CE	9:A3:103:BCL:H171	2.27	0.64
5:A5:43:ASP:CA	5:A7:47:LEU:HB3	2.27	0.64
5:A5:5:ASN:HA	5:A5:8:LEU:HD12	1.80	0.64
5:A5:31:LEU:HD21	14:A7:102:CRT:H32	1.79	0.64
5:A9:31:LEU:HD21	9:A0:102:BCL:HMA2	1.78	0.64
5:AA:8:LEU:HB3	6:AE:20:ILE:CG2	2.27	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:301:ASP:HB2	1:AC:302:PRO:CD	2.28	0.64
2:AL:178:TYR:HB3	2:AL:272:TRP:CD1	2.33	0.64
2:AL:196:LEU:HD12	3:AM:273:ALA:HB2	1.78	0.64
2:AL:112:ARG:NH2	3:AM:255:THR:HA	2.12	0.64
9:AK:102:BCL:HBD	9:AN:101:BCL:OBD	1.98	0.64
5:AK:12:TRP:HB2	6:AN:14:ALA:HB1	1.80	0.64
5:AS:20:VAL:HB	9:AU:102:BCL:H203	1.78	0.64
5:AW:18:ARG:HG2	5:AW:18:ARG:HH11	1.62	0.64
5:B1:16:ASP:HB2	5:B1:19:ARG:HD3	1.79	0.64
4:BH:18:ALA:O	4:BH:21:LEU:HB3	1.97	0.64
2:BL:188:PHE:CB	2:BL:249:ALA:HB2	2.22	0.64
3:BM:208:PHE:HB3	3:BM:276:THR:OG1	1.97	0.64
3:BM:7:ILE:HG22	3:BM:8:PHE:N	2.12	0.64
6:BX:45:TRP:CZ3	9:BX:101:BCL:HAC2	2.33	0.64
1:AC:137:ALA:HA	1:AC:141:TRP:HD1	1.62	0.64
6:A0:11:ASP:O	6:A0:15:LYS:HG3	1.98	0.64
5:AW:19:ARG:HH12	5:AY:22:VAL:CG2	2.10	0.64
6:BR:10:THR:HG22	6:BR:11:ASP:N	2.12	0.64
5:AD:9:TYR:HB2	6:AE:15:LYS:HA	1.79	0.64
2:AL:82:TYR:HB3	2:AL:85:ARG:HE	1.63	0.64
6:AR:38:LEU:O	6:AR:38:LEU:HD12	1.98	0.64
6:A2:16:GLU:CB	14:A2:102:CRT:H1M1	2.28	0.64
4:AH:5:ILE:HG23	4:AH:6:THR:N	2.10	0.64
5:AK:44:LEU:HD22	5:AK:44:LEU:O	1.97	0.64
2:AL:252:TRP:CE3	2:AL:252:TRP:HA	2.33	0.64
3:AM:133:THR:HG22	3:AM:134:TYR:N	2.12	0.64
3:AM:97:PRO:HB2	3:AM:171:TRP:O	1.97	0.64
3:AM:35:ILE:CD1	15:AM:409:PEF:H321	2.28	0.64
5:AO:44:LEU:HD12	5:AO:46:TRP:H	1.63	0.64
6:AP:44:PRO:HG2	5:AQ:52:PRO:CB	2.28	0.64
5:AU:14:ILE:HD12	14:AX:102:CRT:H82	1.79	0.64
5:AW:21:LEU:HD22	14:AX:102:CRT:H132	1.78	0.64
5:B1:11:ILE:HG23	5:B1:15:LEU:HD12	1.80	0.64
5:BY:50:ASN:HA	5:B1:60:LYS:O	1.98	0.64
14:B5:103:CRT:C32	5:B7:31:LEU:HD21	2.28	0.64
1:BC:97:VAL:HG12	1:BC:97:VAL:O	1.98	0.64
14:BG:102:CRT:H2M2	5:BI:37:MET:HE2	1.77	0.64
5:BK:47:LEU:HD22	5:BK:47:LEU:H	1.61	0.64
3:BM:265:ILE:CG2	3:BM:266:HIS:N	2.60	0.64
5:BO:21:LEU:O	5:BO:25:VAL:HG23	1.98	0.64
1:BC:96:ALA:C	1:BC:98:THR:H	2.01	0.64
6:A8:29:PHE:CE1	9:A8:101:BCL:C2	2.81	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:A8:101:BCL:HMA1	9:A9:102:BCL:CMA	2.17	0.64
1:AC:110:CYS:HA	1:AC:123:THR:OG1	1.97	0.64
5:AD:49:ASP:HB2	5:AF:56:GLN:CB	2.28	0.64
2:AL:12:VAL:CG2	2:AL:13:ARG:H	2.10	0.64
3:AM:229:PHE:HB3	3:AM:243:THR:HG23	1.80	0.64
5:AO:11:ILE:HG12	14:AR:102:CRT:H10	1.78	0.64
14:AS:104:CRT:C2M	5:AW:37:MET:N	2.61	0.64
5:AS:31:LEU:HD21	14:AT:102:CRT:H32	1.79	0.64
5:AU:22:VAL:HG13	5:AU:23:SER:N	2.12	0.64
5:AW:2:PHE:CA	5:AW:5:ASN:HD22	2.01	0.64
6:B0:32:VAL:HG12	6:B0:33:VAL:H	1.63	0.64
5:BF:44:LEU:HD22	6:BG:43:ARG:HD2	1.79	0.64
2:BL:35:PHE:CZ	2:BL:111:LEU:HD12	2.33	0.64
2:BL:38:VAL:HG23	2:BL:39:GLY:N	2.12	0.64
3:BM:159:VAL:HA	3:BM:163:ILE:HG22	1.80	0.64
3:BM:247:ARG:NH2	4:BH:244:ALA:HB1	2.13	0.64
6:BP:21:PHE:HB2	14:BP:102:CRT:H11	1.80	0.64
5:BQ:36:HIS:NE2	9:BQ:104:BCL:HMD1	2.10	0.64
5:BS:9:TYR:HA	6:BT:18:HIS:CG	2.33	0.64
6:BX:17:PHE:HA	6:BX:20:ILE:HG22	1.79	0.64
1:AC:187:SER:O	1:AC:189:THR:N	2.30	0.64
5:A1:10:LYS:HD2	6:A4:20:ILE:CB	2.27	0.64
5:A5:46:TRP:CZ2	9:A5:102:BCL:HHC	2.33	0.64
14:AB:102:CRT:C8	5:A9:10:LYS:HB2	2.28	0.64
1:AC:272:ALA:O	1:AC:276:VAL:HG12	1.98	0.64
5:AO:7:ASN:H	5:AO:7:ASN:HD22	1.43	0.64
6:AP:36:HIS:CE1	9:AP:101:BCL:NA	2.65	0.64
5:AU:44:LEU:HD22	6:AV:43:ARG:CD	2.28	0.64
6:AZ:12:ASP:HA	6:AZ:15:LYS:HD2	1.80	0.64
5:B7:29:ILE:HB	9:B7:103:BCL:H43	1.80	0.64
5:BF:50:ASN:ND2	6:BG:43:ARG:HH22	1.95	0.64
6:BG:25:MET:CE	9:BI:102:BCL:H203	2.28	0.64
4:BH:77:VAL:O	4:BH:80:ARG:HD3	1.98	0.64
2:BL:112:ARG:NH2	3:BM:255:THR:HA	2.13	0.64
2:BL:230:GLY:CA	3:BM:51:ILE:HB	2.26	0.64
9:BS:102:BCL:HBC1	9:BT:101:BCL:HBC3	1.79	0.64
14:BW:103:CRT:H9	6:BZ:17:PHE:HE1	1.61	0.64
5:A3:29:ILE:O	5:A3:33:LEU:HG	1.96	0.64
6:A0:34:ILE:HD13	6:A0:35:ALA:N	2.13	0.63
6:A8:34:ILE:HD13	6:A8:34:ILE:O	1.98	0.63
5:AF:11:ILE:O	5:AF:14:ILE:HG12	1.98	0.63
4:AH:57:GLY:HA2	15:AH:301:PEF:O1P	1.98	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:120:LEU:CD2	3:AM:250:LEU:HD23	2.27	0.63
2:AL:177:HIS:CB	3:AM:183:LEU:HD22	2.26	0.63
3:AM:137:ALA:O	3:AM:142:MET:HB2	1.97	0.63
3:AM:208:PHE:CE1	3:AM:275:LEU:HB3	2.33	0.63
3:AM:254:TRP:N	3:AM:254:TRP:CD1	2.64	0.63
3:AM:160:LEU:CD2	3:AM:284:ILE:HG21	2.28	0.63
9:AU:102:BCL:C2D	9:AV:102:BCL:HMD2	2.27	0.63
5:B9:12:TRP:HE1	6:B0:18:HIS:CA	2.11	0.63
5:B1:12:TRP:HH2	9:B3:102:BCL:H202	1.62	0.63
5:B1:12:TRP:HH2	5:B1:20:VAL:HG11	1.62	0.63
6:B2:32:VAL:CG1	9:B2:101:BCL:HBA2	2.27	0.63
5:B9:5:ASN:HA	5:B9:8:LEU:HD12	1.79	0.63
9:BA:101:BCL:HMD1	6:BB:36:HIS:CE1	2.33	0.63
9:BD:102:BCL:HMD2	9:BE:101:BCL:C1D	2.28	0.63
4:BH:78:ALA:HA	4:BH:79:PRO:C	2.18	0.63
3:BM:34:PRO:HG3	3:BM:50:PRO:CD	2.28	0.63
3:BM:56:THR:HG21	3:BM:131:VAL:CG1	2.28	0.63
5:BS:29:ILE:HG23	5:BS:30:VAL:N	2.12	0.63
5:BU:12:TRP:CD2	6:BV:17:PHE:CD2	2.85	0.63
14:BV:102:CRT:C34	9:BW:102:BCL:HBA1	2.23	0.63
3:BM:109:LEU:CD2	5:BS:45:ASN:HD21	2.10	0.63
1:BC:164:TYR:CB	1:BC:309:THR:HA	2.28	0.63
3:BM:2:PRO:HB3	4:BH:201:ARG:HH12	1.63	0.63
5:A3:32:GLY:N	9:A3:104:BCL:HED2	2.13	0.63
5:AA:14:ILE:HG13	5:AA:15:LEU:CD2	2.29	0.63
1:AC:123:THR:O	1:AC:126:VAL:HG22	1.97	0.63
5:AK:48:ASP:HB3	5:AK:56:GLN:NE2	2.12	0.63
5:AK:9:TYR:HB2	6:AN:15:LYS:HA	1.80	0.63
3:AM:98:PRO:HG3	3:AM:107:PRO:HG3	1.80	0.63
14:AS:104:CRT:H182	9:AU:102:BCL:C9	2.27	0.63
5:AW:7:ASN:H	5:AW:7:ASN:ND2	1.95	0.63
9:AY:102:BCL:CMD	6:AZ:36:HIS:CD2	2.80	0.63
9:B1:102:BCL:HBC2	9:B2:101:BCL:HBC3	1.79	0.63
5:B3:9:TYR:CE1	5:B3:10:LYS:HD2	2.33	0.63
9:BA:101:BCL:H202	5:B9:24:ILE:HD13	1.79	0.63
1:BC:270:TRP:O	1:BC:274:ARG:HD2	1.98	0.63
4:BH:48:ARG:O	4:BH:53:VAL:HG23	1.98	0.63
5:BW:16:ASP:O	5:BW:19:ARG:CG	2.46	0.63
6:BZ:11:ASP:O	6:BZ:15:LYS:HG3	1.98	0.63
6:B2:46:LEU:HB2	5:B3:52:PRO:CD	2.27	0.63
1:AC:243:LEU:N	1:AC:243:LEU:HD12	2.12	0.63
6:A2:21:PHE:CE1	14:A2:102:CRT:H16	2.32	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:A4:45:TRP:O	6:A4:46:LEU:HG	1.99	0.63
5:A5:4:MET:O	5:A5:8:LEU:HG	1.99	0.63
1:AC:291:LEU:CD2	1:AC:292:PRO:HD2	2.23	0.63
2:AL:112:ARG:HH21	3:AM:255:THR:HA	1.64	0.63
2:AL:53:GLY:HA3	2:AL:75:ILE:HD11	1.79	0.63
1:AC:17:SER:HB3	3:AM:91:PHE:CZ	2.33	0.63
5:AQ:51:ILE:HG23	5:AQ:52:PRO:CA	2.28	0.63
9:AR:101:BCL:HMB3	9:AS:103:BCL:C4A	2.28	0.63
9:AS:103:BCL:HMB1	9:AS:103:BCL:CBB	2.28	0.63
5:AU:19:ARG:NE	5:AW:18:ARG:HH22	1.97	0.63
9:AY:102:BCL:HBC1	9:AZ:101:BCL:HBC3	1.80	0.63
5:B1:16:ASP:CB	5:B1:18:ARG:HE	2.11	0.63
5:B9:40:LEU:CD1	5:B9:47:LEU:HD23	2.29	0.63
5:BD:11:ILE:HG23	5:BD:12:TRP:CE3	2.33	0.63
4:BH:54:LYS:HE2	5:BD:23:SER:CA	2.28	0.63
3:BM:260:VAL:HG23	3:BM:261:THR:H	1.61	0.63
3:BM:279:THR:HA	3:BM:282:ILE:CD1	2.27	0.63
3:BM:59:LEU:HG	3:BM:128:LEU:HD21	1.81	0.63
5:BS:42:THR:HG22	5:BS:43:ASP:N	2.13	0.63
14:BV:102:CRT:H2M1	5:BW:33:LEU:O	1.98	0.63
5:A9:16:ASP:O	5:A9:20:VAL:HG22	1.98	0.63
4:AH:164:ALA:HB2	4:AH:216:ALA:HB1	1.80	0.63
5:AA:50:ASN:HA	5:AD:59:GLY:C	2.18	0.63
1:AC:24:GLU:OE1	1:AC:45:ASN:HB2	1.98	0.63
5:AD:48:ASP:HB2	5:AD:56:GLN:OE1	1.97	0.63
2:AL:241:LEU:O	2:AL:244:PHE:HB3	1.99	0.63
5:AS:34:LEU:HA	15:AS:101:PEF:C44	2.29	0.63
14:AS:104:CRT:H2M1	5:AW:33:LEU:O	1.99	0.63
5:AS:10:LYS:HG2	14:AS:104:CRT:C1M	2.29	0.63
5:AS:46:TRP:CD1	5:AS:47:LEU:HD22	2.34	0.63
6:AV:10:THR:HG22	6:AV:11:ASP:H	1.62	0.63
5:B7:47:LEU:HD22	5:B7:47:LEU:N	2.14	0.63
1:BC:40:MET:HA	1:BC:248:THR:HG22	1.80	0.63
9:BG:101:BCL:CBB	9:BI:102:BCL:CHC	2.76	0.63
14:BF:103:CRT:H41	6:BJ:17:PHE:CD2	2.34	0.63
9:BT:101:BCL:C4A	9:BU:102:BCL:HMB3	2.28	0.63
6:BV:21:PHE:HB2	14:BV:102:CRT:H11	1.80	0.63
4:AH:251:THR:HG22	4:AH:253:GLU:H	1.62	0.63
6:A0:7:THR:HG23	6:A0:8:GLY:N	2.13	0.63
5:A1:5:ASN:HA	5:A1:8:LEU:CB	2.20	0.63
5:A5:44:LEU:HD12	5:A5:44:LEU:O	1.98	0.63
5:AA:11:ILE:HD13	14:AA:102:CRT:C10	2.28	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:203:ILE:C	2:AL:205:SER:H	2.00	0.63
6:AV:10:THR:HG22	6:AV:11:ASP:N	2.13	0.63
9:AW:101:BCL:HBC1	9:AX:101:BCL:HBC3	1.80	0.63
9:BA:101:BCL:C15	5:B9:24:ILE:HD11	2.29	0.63
5:BF:14:ILE:HD12	5:BI:21:LEU:HD22	1.79	0.63
4:BH:251:THR:HG22	4:BH:253:GLU:H	1.61	0.63
2:BL:185:ALA:N	2:BL:252:TRP:HD1	1.97	0.63
9:BL:301:BCL:CBB	9:BL:301:BCL:HMB1	2.28	0.63
9:BS:102:BCL:OBB	9:BS:102:BCL:HHC	1.98	0.63
5:BU:46:TRP:CZ2	9:BU:102:BCL:H2C	2.34	0.63
1:BC:94:MET:SD	7:BC:501:HEM:FE	1.89	0.63
5:AD:14:ILE:HD12	5:AD:14:ILE:N	2.13	0.63
5:A1:14:ILE:HD12	5:A1:15:LEU:N	2.13	0.63
14:AB:102:CRT:H5	5:A9:10:LYS:CB	2.29	0.63
6:AJ:14:ALA:O	6:AJ:18:HIS:HB2	1.98	0.63
5:AK:5:ASN:HD21	6:AN:22:MET:CE	2.11	0.63
9:AL:301:BCL:H71	9:AL:301:BCL:H41	1.81	0.63
3:AM:148:TRP:HA	3:AM:148:TRP:HE3	1.62	0.63
5:AO:34:LEU:HA	5:AO:37:MET:HB2	1.80	0.63
5:AS:10:LYS:HA	5:AS:13:LEU:HD12	1.80	0.63
5:B1:16:ASP:HB3	5:B1:18:ARG:NE	2.13	0.63
5:B1:18:ARG:HD2	5:B1:19:ARG:N	2.13	0.63
6:BP:10:THR:HB	6:BP:13:GLU:OE1	1.97	0.63
2:AL:22:LEU:O	5:A9:18:ARG:NH1	2.31	0.63
5:BI:18:ARG:CZ	5:BI:18:ARG:HB3	2.28	0.63
1:AC:170:PRO:HG2	1:AC:171:GLY:H	1.62	0.63
5:BU:42:THR:HB	5:BW:48:ASP:HB3	1.80	0.63
5:AA:35:ILE:HG13	9:AB:101:BCL:O1D	1.97	0.63
4:AH:41:LEU:HD13	4:AH:48:ARG:NH1	2.14	0.63
5:AI:32:GLY:N	9:AJ:101:BCL:HED2	2.14	0.63
9:AK:102:BCL:C4D	9:AN:101:BCL:CMD	2.77	0.63
5:AO:3:THR:HB	5:AO:4:MET:SD	2.39	0.63
14:AP:102:CRT:H2M1	5:AQ:37:MET:HG2	1.80	0.63
6:AT:42:TYR:CD2	6:AT:43:ARG:HG2	2.34	0.63
6:AX:42:TYR:CE2	6:AX:43:ARG:HD2	2.33	0.63
5:AY:8:LEU:HD22	5:AY:11:ILE:CD1	2.29	0.63
6:B0:18:HIS:O	6:B0:22:MET:HB2	1.98	0.63
5:B1:10:LYS:HB2	14:B1:103:CRT:H83	1.81	0.63
6:B8:34:ILE:HD13	6:B8:34:ILE:O	1.99	0.63
2:BL:189:PHE:HE2	2:BL:253:SER:HG	1.45	0.63
3:BM:186:THR:HG23	3:BM:187:ALA:H	1.63	0.63
6:BT:45:TRP:CE3	9:BT:101:BCL:H2C	2.33	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BS:42:THR:HG21	5:BU:47:LEU:HB3	1.80	0.63
5:BY:43:ASP:N	5:B1:48:ASP:HB3	2.13	0.63
5:BD:9:TYR:CZ	6:BE:11:ASP:HB3	2.33	0.63
4:AH:22:PHE:C	4:AH:22:PHE:CD1	2.72	0.63
9:A9:102:BCL:HMD1	6:A0:36:HIS:CD2	2.33	0.63
5:A3:46:TRP:CZ3	9:A3:103:BCL:H2C	2.33	0.63
6:A8:44:PRO:O	5:A9:52:PRO:CD	2.46	0.63
1:AC:266:ARG:O	1:AC:269:ALA:N	2.24	0.63
9:AD:102:BCL:C1D	9:AE:101:BCL:CMD	2.74	0.63
5:AD:49:ASP:HB2	5:AF:56:GLN:CG	2.29	0.63
2:AL:110:ALA:O	2:AL:113:GLU:HB2	1.98	0.63
2:AL:38:VAL:HG23	2:AL:39:GLY:N	2.13	0.63
3:AM:47:GLN:NE2	3:AM:49:GLY:O	2.31	0.63
6:AN:30:GLY:O	6:AN:33:VAL:HG12	1.97	0.63
5:AQ:15:LEU:CD2	5:AS:18:ARG:HD3	2.27	0.63
6:B0:36:HIS:HE1	9:B0:102:BCL:CHB	2.11	0.63
5:B5:12:TRP:HZ3	5:B5:17:PRO:HA	1.64	0.63
1:BC:175:PRO:CD	1:BC:179:LYS:HB2	2.26	0.63
5:BU:13:LEU:HB2	14:BU:103:CRT:H1M2	1.80	0.63
6:BV:20:ILE:HD13	6:BV:20:ILE:O	1.99	0.63
9:BZ:101:BCL:HBB3	9:B1:102:BCL:CHC	2.28	0.63
1:AC:135:ARG:HG2	1:AC:330:LEU:CA	2.28	0.63
5:BA:21:LEU:HD23	5:B9:14:ILE:HG21	1.81	0.63
5:AD:12:TRP:HA	5:AD:12:TRP:CE3	2.34	0.63
6:A0:36:HIS:HE1	9:A0:102:BCL:CHB	2.12	0.63
1:AC:269:ALA:O	1:AC:273:ILE:HG13	1.98	0.63
5:AA:50:ASN:HA	5:AD:60:LYS:N	2.14	0.63
3:AM:201:PHE:CZ	4:AH:16:ILE:HA	2.34	0.63
2:AL:44:LEU:C	2:AL:46:GLY:H	2.02	0.63
3:AM:237:GLN:OE1	3:AM:244:ALA:HB3	1.99	0.63
3:AM:314:VAL:HG12	3:AM:315:ASN:H	1.64	0.63
5:AQ:31:LEU:CG	9:AR:101:BCL:HED3	2.29	0.63
5:B3:36:HIS:CD2	9:B4:101:BCL:HMD1	2.33	0.63
4:BH:55:VAL:CG1	4:BH:56:VAL:H	2.09	0.63
4:BH:69:LEU:HD23	4:BH:70:PRO:HD2	1.81	0.63
2:BL:168:ASN:O	2:BL:171:TYR:N	2.32	0.63
6:BN:31:LEU:HA	6:BN:34:ILE:HG22	1.79	0.63
5:B1:50:ASN:HB3	5:B3:60:LYS:CA	2.27	0.63
1:BC:94:MET:SD	7:BC:501:HEM:NA	2.72	0.63
4:BH:23:PHE:C	4:BH:25:GLY:H	2.02	0.63
4:AH:258:LEU:O	5:A5:19:ARG:HD3	2.00	0.62
5:AF:14:ILE:HD12	5:AI:21:LEU:CD2	2.28	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AM:290:VAL:HG11	4:AH:12:ALA:HB2	1.79	0.62
5:AW:21:LEU:HD12	5:AW:21:LEU:O	1.99	0.62
5:BA:27:PHE:CE1	5:BD:29:ILE:CD1	2.80	0.62
6:BR:34:ILE:HD12	6:BR:34:ILE:C	2.20	0.62
5:BS:29:ILE:O	5:BS:33:LEU:HD13	1.99	0.62
5:BW:40:LEU:HD12	5:BW:45:ASN:HA	1.80	0.62
6:AR:44:PRO:HG2	5:AS:52:PRO:HG3	1.81	0.62
1:BC:52:SER:O	1:BC:56:ASN:HB2	1.99	0.62
6:B4:45:TRP:O	6:B4:46:LEU:HG	1.99	0.62
3:AM:81:TRP:O	5:AU:41:SER:HB3	1.99	0.62
6:A0:32:VAL:HG12	6:A0:33:VAL:H	1.63	0.62
6:A6:40:TRP:HZ3	6:A6:44:PRO:HA	1.64	0.62
5:A9:12:TRP:HE3	5:A9:12:TRP:HA	1.64	0.62
1:AC:20:LEU:HG	2:AL:271:TRP:HE1	1.64	0.62
5:AD:31:LEU:HG	9:AE:101:BCL:HED3	1.80	0.62
1:AC:20:LEU:HG	2:AL:271:TRP:NE1	2.14	0.62
3:AM:197:TYR:CZ	9:AM:402:BCL:HMC2	2.34	0.62
6:AN:31:LEU:HA	6:AN:34:ILE:CG2	2.29	0.62
5:AK:43:ASP:OD1	5:AO:47:LEU:HB3	1.99	0.62
5:AO:13:LEU:HA	6:AP:9:LEU:HB2	1.80	0.62
5:AO:43:ASP:CA	5:AQ:48:ASP:HB3	2.29	0.62
5:AU:9:TYR:HB2	6:AV:15:LYS:HD3	1.81	0.62
6:B0:17:PHE:CD1	14:B0:101:CRT:C9	2.74	0.62
5:B5:18:ARG:HH11	5:B5:18:ARG:HG3	1.64	0.62
5:B7:46:TRP:CD1	5:B7:47:LEU:CD2	2.82	0.62
4:AH:213:ALA:O	4:AH:246:GLY:HA3	1.99	0.62
6:BX:13:GLU:O	6:BX:16:GLU:HB3	1.98	0.62
14:A1:103:CRT:H9	6:A4:17:PHE:HE1	1.64	0.62
1:AC:128:ARG:O	1:AC:131:PHE:HB2	1.99	0.62
9:AE:101:BCL:CHC	9:AF:102:BCL:HBB3	2.29	0.62
3:AM:275:LEU:HD21	4:AH:19:PHE:HE2	1.63	0.62
4:AH:52:ARG:NH1	4:AH:52:ARG:HB3	2.14	0.62
9:AL:303:BCL:HBC1	9:AM:402:BCL:CBD	2.29	0.62
9:BA:101:BCL:HBB3	9:B0:102:BCL:C4B	2.28	0.62
5:BA:36:HIS:CD2	9:BB:101:BCL:CMD	2.83	0.62
6:BB:29:PHE:HE1	9:BB:101:BCL:H11	1.64	0.62
1:BC:284:ILE:HG21	1:BC:304:ARG:HA	1.80	0.62
14:BA:102:CRT:H9	6:BE:17:PHE:CD1	2.34	0.62
4:BH:166:THR:O	4:BH:184:VAL:HG13	2.00	0.62
3:BM:250:LEU:O	3:BM:254:TRP:CD1	2.52	0.62
9:BO:102:BCL:HAC2	9:BP:101:BCL:CAC	2.29	0.62
5:BU:13:LEU:HD22	6:BV:9:LEU:HB2	1.79	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:BW:103:CRT:H35	5:BY:31:LEU:HD11	1.81	0.62
5:BW:14:ILE:HG21	5:BY:21:LEU:HD12	1.80	0.62
1:AC:148:THR:HG23	1:AC:322:GLN:CA	2.29	0.62
6:B0:10:THR:HB	6:B0:13:GLU:OE2	2.00	0.62
4:BH:88:ASN:ND2	4:BH:109:SER:HB2	2.14	0.62
5:AY:43:ASP:N	5:A1:48:ASP:HB3	2.13	0.62
1:AC:166:TRP:O	1:AC:166:TRP:CE3	2.53	0.62
1:AC:190:VAL:C	1:AC:192:TYR:H	2.02	0.62
1:AC:236:MET:SD	7:AC:503:HEM:NC	2.72	0.62
1:AC:36:ARG:HG3	1:AC:36:ARG:O	1.99	0.62
4:AH:125:LEU:HB2	4:AH:129:GLY:O	1.99	0.62
9:AK:102:BCL:C2D	9:AN:101:BCL:HMD2	2.29	0.62
5:AO:8:LEU:CA	6:AR:20:ILE:HD11	2.20	0.62
6:AV:44:PRO:HG2	5:AW:52:PRO:HG2	1.80	0.62
5:BA:36:HIS:HB3	14:B0:101:CRT:C39	2.27	0.62
9:BB:101:BCL:HMB1	9:BB:101:BCL:CBB	2.29	0.62
5:BS:55:TYR:HD1	5:BS:56:GLN:N	1.97	0.62
5:BW:26:ALA:C	5:BW:29:ILE:HG22	2.17	0.62
5:AI:16:ASP:O	5:AI:20:VAL:HG22	1.99	0.62
6:A0:40:TRP:HH2	6:A0:46:LEU:CG	2.09	0.62
5:A1:43:ASP:HB2	5:A3:47:LEU:CD1	2.29	0.62
1:AC:259:TRP:O	1:AC:261:GLN:N	2.32	0.62
2:AL:231:TYR:OH	2:AL:233:ILE:HA	1.99	0.62
5:AQ:44:LEU:HD22	6:AR:43:ARG:HD3	1.82	0.62
5:AS:10:LYS:HB3	14:AS:104:CRT:H1M2	1.79	0.62
5:AY:15:LEU:HG	5:A1:21:LEU:HD21	1.79	0.62
5:BF:29:ILE:HA	9:BF:102:BCL:C1	2.25	0.62
5:BF:43:ASP:OD2	5:BI:47:LEU:O	2.18	0.62
5:BI:50:ASN:CG	6:BJ:43:ARG:NH2	2.52	0.62
2:BL:264:TRP:CH2	2:BL:271:TRP:HA	2.35	0.62
5:BU:11:ILE:HG12	14:BU:103:CRT:C7	2.29	0.62
5:BY:25:VAL:O	5:BY:29:ILE:HB	1.99	0.62
4:AH:164:ALA:HB2	4:AH:216:ALA:CB	2.30	0.62
5:A5:33:LEU:HD12	5:A5:34:LEU:N	2.13	0.62
9:A0:102:BCL:HMB2	9:A0:102:BCL:H142	1.79	0.62
5:A1:11:ILE:N	14:A1:103:CRT:H82	2.15	0.62
1:AC:154:THR:O	1:AC:157:ARG:HG3	1.98	0.62
2:AL:26:TRP:HE3	4:AH:97:GLY:O	1.81	0.62
2:AL:71:TRP:N	2:AL:71:TRP:CE3	2.68	0.62
3:AM:102:TYR:HD1	3:AM:102:TYR:H	1.47	0.62
3:AM:261:THR:HG23	4:AH:34:ASP:O	1.99	0.62
3:AM:35:ILE:HG22	3:AM:36:PHE:H	1.64	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AO:102:BCL:H111	9:AO:102:BCL:H192	1.82	0.62
5:AO:50:ASN:CG	5:AO:51:ILE:N	2.52	0.62
5:AS:13:LEU:HB2	14:AS:104:CRT:H31A	1.81	0.62
5:AU:12:TRP:HE3	5:AU:12:TRP:HA	1.64	0.62
5:AU:52:PRO:HB3	5:AU:55:TYR:HE1	1.64	0.62
5:AY:50:ASN:HD22	5:A1:58:LEU:CB	2.12	0.62
9:B6:101:BCL:HMA1	9:B7:103:BCL:HMA1	1.81	0.62
1:BC:196:PRO:HG3	1:BC:231:TRP:CD1	2.34	0.62
1:BC:249:PHE:CZ	1:BC:265:LYS:HG2	2.34	0.62
1:BC:80:GLN:HG3	1:BC:128:ARG:NH2	2.15	0.62
9:BD:102:BCL:HAC2	9:BE:101:BCL:HAC1	1.81	0.62
3:BM:215:LEU:O	3:BM:217:ALA:N	2.32	0.62
9:BM:401:BCL:O1D	9:BM:401:BCL:H2A	2.00	0.62
6:BT:32:VAL:HG21	9:BT:101:BCL:HBA2	1.81	0.62
5:BU:56:GLN:NE2	5:BU:57:ALA:N	2.48	0.62
5:BU:9:TYR:HA	6:BV:18:HIS:CG	2.34	0.62
14:BV:102:CRT:H2M3	5:BW:37:MET:N	2.15	0.62
9:BW:102:BCL:HMD1	6:BX:36:HIS:CD2	2.34	0.62
6:A0:10:THR:HB	6:A0:13:GLU:OE2	2.00	0.62
6:AP:10:THR:HG22	6:AP:11:ASP:N	2.14	0.62
6:B2:45:TRP:O	6:B2:46:LEU:CG	2.47	0.62
3:BM:98:PRO:HB2	3:BM:171:TRP:HB3	1.81	0.62
3:BM:35:ILE:HG22	3:BM:36:PHE:H	1.64	0.62
6:A4:41:LEU:HD23	6:A4:41:LEU:O	1.99	0.62
6:AZ:46:LEU:C	5:A1:51:ILE:O	2.38	0.62
6:A8:45:TRP:O	6:A8:46:LEU:CG	2.48	0.62
5:A9:8:LEU:HD22	5:A9:11:ILE:HD11	1.80	0.62
1:AC:259:TRP:C	1:AC:261:GLN:N	2.52	0.62
4:AH:31:ARG:O	4:AH:34:ASP:HB2	2.00	0.62
5:AO:46:TRP:HA	5:AO:49:ASP:OD2	2.00	0.62
5:AO:51:ILE:CG1	5:AO:52:PRO:HD2	2.29	0.62
14:AS:104:CRT:C14	6:AV:24:SER:OG	2.48	0.62
6:AT:10:THR:HG22	6:AT:11:ASP:N	2.13	0.62
5:B5:18:ARG:HB2	5:B5:19:ARG:NH2	2.15	0.62
5:B7:44:LEU:O	5:B7:44:LEU:HD22	1.99	0.62
6:BB:24:SER:O	6:BB:27:ALA:HB3	1.99	0.62
1:BC:134:VAL:HG13	1:BC:150:VAL:HG22	1.80	0.62
5:BI:27:PHE:HE2	5:BK:29:ILE:HD11	1.65	0.62
2:BL:257:ILE:HG22	9:BL:301:BCL:HED2	1.80	0.62
5:BW:22:VAL:O	5:BW:25:VAL:HB	2.00	0.62
6:B8:45:TRP:O	6:B8:46:LEU:CG	2.48	0.62
6:B6:45:TRP:HD1	6:B6:46:LEU:H	1.47	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:A9:12:TRP:CE3	5:A9:12:TRP:HA	2.33	0.62
9:AB:101:BCL:HMB3	9:AD:102:BCL:C1B	2.30	0.62
9:AA:101:BCL:H71	6:AB:28:TRP:CZ3	2.34	0.62
3:AM:207:ALA:O	3:AM:210:TYR:HB2	1.99	0.62
9:AO:102:BCL:HBD	9:AP:101:BCL:OBD	1.99	0.62
5:AO:9:TYR:HA	6:AP:18:HIS:ND1	2.14	0.62
5:AW:12:TRP:HA	5:AW:12:TRP:HE3	1.63	0.62
14:AS:104:CRT:C39	5:AW:36:HIS:HB2	2.28	0.62
14:B2:102:CRT:H2M2	5:B3:36:HIS:HB3	1.81	0.62
5:B7:27:PHE:CZ	5:B9:29:ILE:HD11	2.35	0.62
6:BE:45:TRP:HA	5:BF:52:PRO:CD	2.29	0.62
5:BF:35:ILE:HA	5:BF:38:ILE:HG22	1.80	0.62
2:BL:160:LEU:HA	2:BL:163:LEU:HD13	1.81	0.62
2:BL:189:PHE:HE2	2:BL:253:SER:OG	1.82	0.62
2:BL:87:ALA:N	2:BL:96:GLN:HE22	1.98	0.62
5:BU:35:ILE:O	5:BU:38:ILE:HG22	1.99	0.62
14:BU:103:CRT:C34	9:BY:102:BCL:CBA	2.76	0.62
3:BM:98:PRO:HG3	3:BM:107:PRO:HG3	1.80	0.62
4:BH:14:ILE:O	4:BH:17:TRP:HB2	2.00	0.62
6:B4:41:LEU:O	6:B4:41:LEU:HD23	1.99	0.62
5:BQ:20:VAL:O	5:BQ:24:ILE:HD13	1.99	0.62
9:AA:101:BCL:HED1	6:AB:31:LEU:HB3	1.82	0.62
4:AH:171:TRP:CE2	4:AH:194:LEU:HD21	2.35	0.62
9:AJ:101:BCL:C1B	9:AK:102:BCL:CMB	2.75	0.62
3:AM:89:HIS:O	3:AM:93:LEU:HG	1.99	0.62
5:AU:13:LEU:HD21	6:AV:14:ALA:HB2	1.82	0.62
5:AW:26:ALA:O	5:AW:30:VAL:HG12	1.99	0.62
5:AW:31:LEU:HD13	14:AX:102:CRT:H35	1.80	0.62
6:B8:31:LEU:O	6:B8:34:ILE:HG22	2.00	0.62
9:BF:102:BCL:HMD2	9:BG:101:BCL:CHD	2.30	0.62
2:BL:117:CYS:SG	2:BL:124:PHE:HA	2.39	0.62
3:BM:287:SER:CB	3:BM:294:TRP:HE1	2.12	0.62
14:BU:103:CRT:H342	9:BY:102:BCL:HBA1	1.80	0.62
5:AF:19:ARG:HH12	5:AI:18:ARG:HH22	1.47	0.62
5:BA:2:PHE:HB2	5:BA:5:ASN:OD1	2.00	0.62
5:A1:12:TRP:CD1	6:A2:17:PHE:CD2	2.88	0.62
5:AD:36:HIS:CE1	9:AE:101:BCL:CMD	2.77	0.62
4:AH:32:ARG:HG3	4:AH:59:PRO:HB2	1.82	0.62
4:AH:63:ASP:O	4:AH:79:PRO:HD2	1.99	0.62
2:AL:131:SER:O	2:AL:134:ILE:HB	2.00	0.62
3:AM:152:ALA:HB2	3:AM:274:VAL:HG13	1.82	0.62
3:AM:274:VAL:HG12	3:AM:278:ILE:HD11	1.82	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AP:12:ASP:O	6:AP:16:GLU:HG3	2.00	0.62
5:AQ:40:LEU:HD12	5:AQ:45:ASN:HA	1.82	0.62
6:AV:28:TRP:HA	6:AV:31:LEU:HD12	1.81	0.62
5:AW:26:ALA:HA	5:AW:29:ILE:HG22	1.82	0.62
3:AM:84:PHE:HA	5:AW:37:MET:CE	2.29	0.62
5:B9:4:MET:O	5:B9:8:LEU:HG	2.00	0.62
6:BE:40:TRP:HZ3	6:BE:45:TRP:H	1.47	0.62
5:BF:11:ILE:HB	14:BF:103:CRT:C8	2.24	0.62
4:BH:48:ARG:HG2	4:BH:57:GLY:H	1.65	0.62
9:BK:102:BCL:HMB1	9:BK:102:BCL:CBB	2.29	0.62
5:BK:44:LEU:O	5:BK:44:LEU:HD22	1.99	0.62
3:BM:276:THR:HG22	3:BM:277:VAL:N	2.15	0.62
5:BQ:50:ASN:HB3	5:BS:56:GLN:HA	1.82	0.62
9:BS:102:BCL:CHD	9:BS:102:BCL:HBC2	2.28	0.62
14:BV:102:CRT:H2M3	5:BW:37:MET:CA	2.30	0.62
5:AK:16:ASP:O	5:AK:20:VAL:HG22	1.99	0.62
5:BU:42:THR:HB	5:BW:48:ASP:CG	2.21	0.62
3:AM:17:ALA:O	3:AM:19:PRO:HD3	2.00	0.62
6:AN:38:LEU:HD23	6:AN:38:LEU:O	2.00	0.62
9:A0:102:BCL:H141	9:A0:102:BCL:C2B	2.30	0.61
9:A8:101:BCL:C20	9:A8:101:BCL:H152	2.25	0.61
5:AA:45:ASN:OD1	5:AA:47:LEU:HB2	1.99	0.61
6:AB:20:ILE:HD12	14:AB:102:CRT:H81	1.82	0.61
5:AD:7:ASN:H	5:AD:7:ASN:HD22	1.46	0.61
6:AJ:33:VAL:O	6:AJ:37:LEU:HD23	2.00	0.61
2:AL:188:PHE:CD2	2:AL:248:SER:HB3	2.35	0.61
2:AL:94:LEU:HA	2:AL:97:ILE:CD1	2.29	0.61
10:AM:403:BPH:H9C3	15:AM:409:PEF:C22	2.27	0.61
9:AK:102:BCL:HMD2	9:AN:101:BCL:HAC1	1.81	0.61
5:AU:9:TYR:HA	6:AV:18:HIS:ND1	2.15	0.61
5:B3:43:ASP:HB2	5:B5:47:LEU:CD1	2.13	0.61
2:BL:206:VAL:CG1	3:BM:142:MET:HE1	2.30	0.61
2:BL:206:VAL:HG12	3:BM:142:MET:SD	2.39	0.61
5:BU:36:HIS:CE1	9:BU:102:BCL:NA	2.68	0.61
6:BV:46:LEU:HD13	6:BX:42:TYR:CE1	2.35	0.61
5:BK:14:ILE:HG23	5:BO:18:ARG:HG2	1.82	0.61
5:A7:44:LEU:HD23	6:A8:43:ARG:NH1	2.15	0.61
5:A7:44:LEU:HD22	5:A7:46:TRP:HE3	1.62	0.61
9:AE:101:BCL:C1B	9:AF:102:BCL:CMB	2.77	0.61
5:AK:47:LEU:H	5:AK:47:LEU:HD22	1.65	0.61
2:AL:196:LEU:HB2	3:AM:216:PHE:CG	2.35	0.61
3:AM:42:LYS:HE3	15:AM:408:PEF:H42	1.81	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AN:101:BCL:CMB	9:AO:102:BCL:C1B	2.79	0.61
5:AO:26:ALA:HA	5:AO:29:ILE:HG22	1.81	0.61
5:AO:9:TYR:HA	6:AP:18:HIS:CE1	2.34	0.61
6:AP:44:PRO:HG2	5:AQ:52:PRO:HB3	1.81	0.61
9:BF:102:BCL:H62	6:BG:28:TRP:CH2	2.35	0.61
2:BL:13:ARG:HG3	2:BL:13:ARG:O	1.99	0.61
9:BW:102:BCL:ND	9:BX:101:BCL:CMD	2.62	0.61
5:BY:49:ASP:HB2	5:B1:56:GLN:NE2	2.16	0.61
6:BB:45:TRP:O	6:BB:46:LEU:HB2	2.00	0.61
5:AD:15:LEU:HB3	5:AD:20:VAL:CG2	2.30	0.61
5:A3:31:LEU:HD21	9:A3:104:BCL:HMA2	1.82	0.61
5:AD:31:LEU:O	5:AD:35:ILE:HG12	2.00	0.61
9:AO:102:BCL:H2A	9:AO:102:BCL:O1D	2.01	0.61
5:AO:9:TYR:CE1	5:AO:10:LYS:HD3	2.34	0.61
6:AR:45:TRP:HD1	6:AR:46:LEU:H	1.48	0.61
9:B7:103:BCL:CMD	6:B8:36:HIS:CD2	2.83	0.61
2:BL:181:ALA:O	2:BL:183:MET:N	2.34	0.61
5:BO:44:LEU:HD11	5:BO:46:TRP:HE3	1.64	0.61
9:BQ:103:BCL:HMB1	9:BQ:103:BCL:HBB2	1.82	0.61
9:BX:101:BCL:HMC3	9:BY:102:BCL:HBB1	1.82	0.61
6:BZ:45:TRP:CG	9:BZ:101:BCL:H2C	2.35	0.61
4:AH:159:LEU:C	4:AH:159:LEU:HD12	2.21	0.61
6:BX:34:ILE:HD13	6:BX:34:ILE:C	2.21	0.61
6:A2:29:PHE:N	6:A2:29:PHE:HD1	1.99	0.61
5:A3:46:TRP:CZ3	9:A3:103:BCL:HBC3	2.36	0.61
1:AC:126:VAL:HG23	1:AC:127:SER:N	2.15	0.61
1:AC:307:CYS:O	1:AC:311:HIS:HB2	2.00	0.61
5:AD:19:ARG:O	5:AD:23:SER:HB3	2.01	0.61
2:AL:10:TYR:HA	4:AH:112:GLY:HA2	1.81	0.61
4:AH:123:CYS:N	4:AH:232:THR:HG22	2.16	0.61
2:AL:214:PRO:HA	4:AH:68:VAL:O	2.01	0.61
6:AJ:30:GLY:O	6:AJ:33:VAL:HG12	2.00	0.61
3:AM:134:TYR:HA	3:AM:144:GLN:HE22	1.64	0.61
5:AI:4:MET:SD	6:AN:23:GLN:HB3	2.40	0.61
5:AO:14:ILE:CG2	5:AO:15:LEU:HG	2.30	0.61
5:AO:4:MET:O	5:AO:7:ASN:ND2	2.32	0.61
5:AS:13:LEU:HB2	14:AS:104:CRT:H32A	1.81	0.61
14:AW:102:CRT:H6	6:AZ:17:PHE:HD1	1.65	0.61
6:B0:32:VAL:HG12	6:B0:33:VAL:N	2.14	0.61
14:BA:102:CRT:H342	9:BF:102:BCL:CBA	2.25	0.61
6:BB:27:ALA:O	6:BB:31:LEU:HG	2.01	0.61
9:BD:102:BCL:ND	9:BE:101:BCL:CMD	2.63	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BK:16:ASP:HB3	5:BK:18:ARG:HE	1.66	0.61
2:BL:181:ALA:HB3	2:BL:256:CYS:HA	1.82	0.61
2:BL:195:ALA:HB3	3:BM:216:PHE:HE2	1.64	0.61
3:BM:137:ALA:O	3:BM:142:MET:HB2	2.00	0.61
6:BP:31:LEU:O	6:BP:34:ILE:HG13	2.00	0.61
5:BO:12:TRP:O	6:BP:9:LEU:HD12	1.99	0.61
2:AL:16:THR:OG1	4:AH:257:PRO:HB3	2.00	0.61
4:BH:235:GLU:HA	4:BH:238:LYS:HG2	1.82	0.61
6:BN:20:ILE:HD12	6:BN:20:ILE:N	2.16	0.61
6:BE:23:GLN:HG3	6:BE:24:SER:N	2.16	0.61
3:BM:35:ILE:HG22	3:BM:36:PHE:N	2.15	0.61
6:BP:30:GLY:O	6:BP:33:VAL:HG12	2.01	0.61
14:A1:103:CRT:H9	6:A4:17:PHE:CE1	2.36	0.61
5:A1:5:ASN:O	5:A1:8:LEU:HD22	2.01	0.61
5:AA:22:VAL:HA	5:AA:25:VAL:HG23	1.82	0.61
14:AB:102:CRT:H31A	5:A9:10:LYS:C	2.20	0.61
6:AB:24:SER:O	6:AB:27:ALA:HB3	2.00	0.61
5:AD:40:LEU:CD1	5:AD:47:LEU:HD23	2.28	0.61
6:AE:23:GLN:HG3	6:AE:24:SER:N	2.14	0.61
4:AH:123:CYS:CA	4:AH:232:THR:HA	2.29	0.61
4:AH:5:ILE:HG12	4:AH:6:THR:N	2.15	0.61
9:AJ:101:BCL:C4B	9:AK:102:BCL:HBB3	2.30	0.61
2:AL:164:ASP:O	2:AL:167:SER:N	2.33	0.61
3:AM:150:PHE:N	10:AM:403:BPH:HMD3	2.16	0.61
5:AS:30:VAL:CG2	15:AS:101:PEF:H392	2.25	0.61
5:AW:2:PHE:HB2	5:AW:5:ASN:HB2	1.81	0.61
5:B7:43:ASP:CB	5:B9:47:LEU:HD12	2.21	0.61
6:BB:29:PHE:HZ	9:BB:101:BCL:H42	1.66	0.61
4:BH:197:ILE:O	4:BH:197:ILE:HD13	2.01	0.61
9:BL:303:BCL:HMB1	9:BM:402:BCL:H152	1.80	0.61
3:BM:7:ILE:HB	15:BM:407:PEF:HN1	1.64	0.61
5:AY:19:ARG:O	5:AY:23:SER:HB3	2.00	0.61
5:BU:53:VAL:HA	5:BU:55:TYR:CZ	2.36	0.61
6:A2:16:GLU:HB3	14:A2:102:CRT:H1M1	1.82	0.61
14:A1:103:CRT:C34	9:A5:102:BCL:HBA1	2.31	0.61
6:A8:22:MET:SD	6:A8:26:TYR:HE2	2.23	0.61
1:AC:285:TRP:HB3	1:AC:286:PRO:HD3	1.81	0.61
4:AH:54:LYS:HE3	5:AD:23:SER:CB	2.30	0.61
2:AL:171:TYR:C	2:AL:173:PHE:H	2.03	0.61
2:AL:231:TYR:CD2	3:AM:48:ILE:HD13	2.35	0.61
1:AC:36:ARG:HB3	2:AL:79:ASP:CG	2.20	0.61
5:AO:7:ASN:ND2	6:AR:23:GLN:OE1	2.34	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AP:34:ILE:O	6:AP:38:LEU:HB3	2.00	0.61
5:AO:50:ASN:OD1	6:AP:43:ARG:NH2	2.34	0.61
14:AR:102:CRT:H342	9:AS:103:BCL:CBA	2.28	0.61
5:AW:9:TYR:CE1	6:AX:15:LYS:HB2	2.34	0.61
5:AY:11:ILE:HD13	9:A1:102:BCL:C15	2.28	0.61
5:B3:20:VAL:O	5:B3:24:ILE:HG12	2.00	0.61
14:BB:102:CRT:C2M	5:BD:37:MET:HE3	2.30	0.61
2:BL:139:VAL:HG23	2:BL:143:VAL:HB	1.81	0.61
2:BL:40:PHE:O	2:BL:43:THR:HB	2.00	0.61
9:BL:303:BCL:CMB	9:BM:402:BCL:H152	2.30	0.61
9:BM:402:BCL:CBB	9:BM:402:BCL:HMB1	2.30	0.61
5:BU:44:LEU:HB3	5:BW:55:TYR:CD1	2.35	0.61
5:AW:14:ILE:HD13	5:AY:17:PRO:HB2	1.83	0.61
4:BH:164:ALA:HB2	4:BH:216:ALA:HB1	1.81	0.61
9:A1:102:BCL:H143	14:A2:102:CRT:H132	1.80	0.61
1:AC:264:PRO:HG2	1:AC:265:LYS:H	1.65	0.61
1:AC:292:PRO:O	1:AC:296:LYS:HG3	2.01	0.61
5:AD:49:ASP:HB2	5:AF:56:GLN:HB3	1.83	0.61
4:AH:19:PHE:CD1	4:AH:20:TRP:N	2.68	0.61
3:AM:59:LEU:CG	3:AM:128:LEU:HD21	2.31	0.61
5:AS:10:LYS:HD3	14:AS:104:CRT:C1M	2.29	0.61
5:AY:31:LEU:HD23	9:AZ:101:BCL:HED3	1.81	0.61
9:BA:101:BCL:CBA	14:B0:101:CRT:H342	2.25	0.61
6:B8:22:MET:SD	6:B8:26:TYR:HE2	2.23	0.61
5:BA:29:ILE:HG12	5:B9:27:PHE:CE2	2.36	0.61
6:BB:37:LEU:HD22	9:BB:101:BCL:H193	1.83	0.61
1:BC:276:VAL:HG13	1:BC:277:ARG:H	1.65	0.61
2:BL:159:ILE:H	2:BL:159:ILE:HD12	1.65	0.61
2:BL:15:GLY:O	2:BL:118:ARG:HD3	1.99	0.61
5:BO:9:TYR:CD1	5:BO:9:TYR:C	2.74	0.61
14:BW:103:CRT:H83	6:BZ:20:ILE:HD13	1.81	0.61
3:BM:12:GLN:HB2	4:BH:145:ALA:CB	2.29	0.61
1:BC:33:ILE:HD12	1:BC:33:ILE:N	2.15	0.61
4:BH:215:LYS:N	4:BH:218:HIS:HD2	1.99	0.61
9:A7:103:BCL:C1	9:A7:103:BCL:O1A	2.49	0.61
14:AB:102:CRT:O2	5:AD:33:LEU:HD12	2.00	0.61
5:AF:10:LYS:HB2	14:AJ:102:CRT:H5	1.81	0.61
4:AH:69:LEU:CD2	4:AH:70:PRO:HD2	2.30	0.61
2:AL:97:ILE:HA	2:AL:100:ILE:CD1	2.28	0.61
2:AL:184:LEU:CB	2:AL:252:TRP:HE1	2.13	0.61
2:AL:170:GLY:HA3	9:AL:301:BCL:CBC	2.30	0.61
3:AM:156:PHE:HA	3:AM:159:VAL:HG23	1.82	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AM:180:PHE:O	3:AM:183:LEU:N	2.34	0.61
3:AM:215:LEU:C	3:AM:217:ALA:N	2.53	0.61
6:AN:37:LEU:HD22	9:AN:101:BCL:H193	1.82	0.61
5:AS:9:TYR:HA	6:AT:18:HIS:HB2	1.82	0.61
5:B3:31:LEU:O	5:B3:35:ILE:HG12	2.01	0.61
5:BK:44:LEU:HD22	5:BK:46:TRP:H	1.66	0.61
2:BL:188:PHE:CE2	2:BL:248:SER:HB3	2.35	0.61
9:BL:301:BCL:CBB	9:BL:303:BCL:HMD2	2.31	0.61
9:BN:101:BCL:H172	6:BP:38:LEU:CD2	2.30	0.61
4:BH:151:PRO:O	4:BH:154:MET:HG3	2.00	0.61
5:AD:12:TRP:HA	5:AD:12:TRP:HE3	1.64	0.61
6:B2:40:TRP:CE3	6:B2:44:PRO:HA	2.36	0.61
6:A8:17:PHE:CD1	6:A8:20:ILE:HG21	2.36	0.61
5:AA:29:ILE:HG12	5:A9:27:PHE:CE2	2.36	0.61
1:AC:130:MET:O	1:AC:133:LEU:HB3	2.00	0.61
1:AC:270:TRP:O	1:AC:274:ARG:HD2	1.99	0.61
6:AN:45:TRP:O	6:AN:46:LEU:HB2	2.00	0.61
5:AS:17:PRO:O	5:AS:20:VAL:HG22	2.00	0.61
5:AW:21:LEU:HD22	14:AX:102:CRT:C13	2.30	0.61
5:AY:9:TYR:CZ	5:AY:10:LYS:HE3	2.36	0.61
5:AY:7:ASN:O	6:A2:20:ILE:CG1	2.49	0.61
5:B1:10:LYS:C	14:B1:103:CRT:C8	2.69	0.61
4:BH:48:ARG:HE	4:BH:57:GLY:HA2	1.64	0.61
4:BH:96:PRO:O	5:B9:19:ARG:HD3	2.01	0.61
9:BI:102:BCL:H192	9:BI:102:BCL:H13	1.83	0.61
6:BJ:45:TRP:O	6:BJ:46:LEU:HB2	2.01	0.61
5:BU:12:TRP:NE1	6:BV:17:PHE:CD2	2.69	0.61
5:BU:35:ILE:HG22	5:BU:36:HIS:N	2.14	0.61
5:BU:46:TRP:CD1	5:BU:47:LEU:HD13	2.36	0.61
5:B3:56:GLN:N	5:B3:56:GLN:NE2	2.49	0.61
1:AC:28:PRO:CD	2:AL:262:PRO:HA	2.30	0.61
2:AL:52:TRP:CE3	2:AL:52:TRP:HA	2.36	0.61
5:AY:16:ASP:HB3	5:AY:18:ARG:HD2	1.82	0.61
5:AS:16:ASP:HB2	5:AS:19:ARG:HD3	1.82	0.61
6:A0:21:PHE:C	6:A0:21:PHE:CD1	2.75	0.61
6:A8:46:LEU:HB3	6:A0:42:TYR:OH	1.99	0.61
9:A1:102:BCL:HMD1	6:A2:36:HIS:CE1	2.36	0.61
4:AH:259:LEU:HD21	5:A5:19:ARG:C	2.21	0.61
9:A7:103:BCL:HAC2	9:A8:101:BCL:HAC1	1.82	0.61
9:AA:101:BCL:CHB	14:A0:101:CRT:H372	2.31	0.61
5:AA:40:LEU:HB2	5:AA:46:TRP:CH2	2.36	0.61
5:AA:47:LEU:HB3	5:A9:43:ASP:HB2	1.83	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:126:VAL:O	1:AC:127:SER:C	2.39	0.61
1:AC:190:VAL:HG12	1:AC:237:MET:HB2	1.82	0.61
5:AD:46:TRP:CH2	9:AD:102:BCL:HBC3	2.36	0.61
5:AF:9:TYR:CD1	6:AG:15:LYS:HG3	2.36	0.61
2:AL:253:SER:C	9:AL:301:BCL:HED3	2.21	0.61
3:AM:179:ILE:H	3:AM:179:ILE:HD13	1.65	0.61
5:AS:9:TYR:CB	6:AT:15:LYS:HA	2.26	0.61
14:B5:103:CRT:C40	5:B7:38:ILE:HG21	2.30	0.61
5:BA:26:ALA:O	5:BA:29:ILE:HG22	2.01	0.61
1:BC:80:GLN:HG3	1:BC:128:ARG:HH22	1.65	0.61
1:BC:270:TRP:CE3	1:BC:271:TYR:CD1	2.88	0.61
5:BD:8:LEU:O	5:BD:10:LYS:N	2.33	0.61
5:BF:10:LYS:HB3	14:BF:103:CRT:O1	2.01	0.61
5:BF:11:ILE:O	5:BF:14:ILE:HG12	2.01	0.61
2:BL:280:LEU:HD21	5:BY:37:MET:CE	2.31	0.61
6:BN:17:PHE:HD1	14:BN:102:CRT:H6	1.62	0.61
14:BS:103:CRT:H6	6:BT:17:PHE:CD2	2.36	0.61
5:BW:26:ALA:HA	5:BW:29:ILE:CG2	2.31	0.61
2:AL:22:LEU:HB2	5:A7:19:ARG:HB2	1.80	0.61
1:BC:42:ASN:HA	2:BL:172:GLN:OE1	2.01	0.61
4:AH:241:ALA:O	4:AH:244:ALA:HB3	2.01	0.61
3:AM:2:PRO:HB3	4:AH:201:ARG:HH12	1.65	0.61
6:AE:38:LEU:O	6:AE:38:LEU:HD23	1.99	0.61
9:AA:101:BCL:C4A	9:A0:102:BCL:HMB3	2.31	0.60
1:AC:97:VAL:HG21	1:AC:131:PHE:CZ	2.37	0.60
6:AG:45:TRP:CH2	9:AG:101:BCL:H2C	2.36	0.60
4:AH:45:ARG:HD3	4:AH:97:GLY:H	1.66	0.60
5:AI:31:LEU:HD21	14:AJ:102:CRT:H32	1.82	0.60
2:AL:174:LEU:HD12	2:AL:174:LEU:N	2.15	0.60
2:AL:253:SER:HA	2:AL:256:CYS:HB2	1.82	0.60
2:AL:257:ILE:HG22	9:AL:301:BCL:HED2	1.82	0.60
9:AL:303:BCL:H141	9:AL:303:BCL:HMA1	1.83	0.60
3:AM:128:LEU:O	3:AM:131:VAL:HB	2.01	0.60
3:AM:163:ILE:O	3:AM:167:MET:HB2	2.01	0.60
3:AM:204:LEU:HD21	4:AH:19:PHE:CE1	2.36	0.60
3:AM:4:TYR:O	3:AM:4:TYR:HD1	1.83	0.60
5:AQ:44:LEU:HD22	6:AR:43:ARG:CD	2.31	0.60
5:AS:32:GLY:HA3	9:AS:103:BCL:O1A	2.00	0.60
5:AW:24:ILE:HG21	14:AX:102:CRT:H22	1.83	0.60
6:B8:17:PHE:CD1	6:B8:20:ILE:HG21	2.36	0.60
2:BL:10:TYR:HD1	4:BH:112:GLY:HA2	1.65	0.60
6:BJ:14:ALA:O	6:BJ:18:HIS:HB2	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:BK:102:BCL:O1D	9:BK:102:BCL:H2A	2.01	0.60
2:BL:235:ALA:HA	11:BL:304:UQ8:H3MB	1.83	0.60
3:BM:63:PHE:CE2	3:BM:124:LEU:HD12	2.36	0.60
6:BP:34:ILE:C	6:BP:34:ILE:HD12	2.22	0.60
9:BU:102:BCL:H2A	9:BU:102:BCL:O1D	2.01	0.60
9:BW:102:BCL:HMD1	6:BX:36:HIS:HD2	1.66	0.60
14:BW:103:CRT:H9	6:BZ:17:PHE:CE1	2.36	0.60
5:BW:46:TRP:CH2	9:BW:102:BCL:HBC3	2.36	0.60
3:BM:97:PRO:HB2	3:BM:171:TRP:O	2.01	0.60
5:AA:36:HIS:ND1	14:A0:101:CRT:H392	2.16	0.60
5:AA:14:ILE:HG13	5:AA:15:LEU:HD22	1.83	0.60
5:AA:36:HIS:O	5:AA:40:LEU:HB3	2.01	0.60
5:AA:46:TRP:HA	6:AB:43:ARG:NH1	2.15	0.60
6:AE:29:PHE:HE1	9:AE:101:BCL:H11	1.64	0.60
5:AF:43:ASP:OD1	5:AF:44:LEU:CD2	2.50	0.60
4:AH:182:LEU:HD12	4:AH:182:LEU:N	2.16	0.60
9:AI:102:BCL:C1D	9:AJ:101:BCL:CMD	2.76	0.60
9:AK:102:BCL:C2D	9:AN:101:BCL:C2D	2.80	0.60
5:AQ:51:ILE:CG1	5:AQ:52:PRO:HA	2.25	0.60
5:B3:18:ARG:HA	5:B3:21:LEU:HB3	1.83	0.60
6:B4:21:PHE:HZ	9:B5:102:BCL:H203	1.66	0.60
5:B5:28:GLN:NE2	9:B6:101:BCL:HED1	2.16	0.60
5:B9:5:ASN:HA	5:B9:8:LEU:CD1	2.31	0.60
1:BC:126:VAL:HG12	1:BC:287:LEU:HD22	1.84	0.60
3:BM:240:HIS:CE1	4:BH:69:LEU:HD21	2.36	0.60
2:BL:48:LEU:HA	2:BL:51:VAL:HG23	1.82	0.60
5:BS:30:VAL:HG13	5:BS:31:LEU:N	2.16	0.60
5:BS:50:ASN:CG	5:BS:51:ILE:H	2.05	0.60
2:AL:82:TYR:HB3	2:AL:85:ARG:HG3	1.83	0.60
4:BH:106:PRO:HA	4:BH:109:SER:HB3	1.84	0.60
6:A2:32:VAL:HG11	9:A2:101:BCL:HBA2	1.84	0.60
6:A2:20:ILE:O	6:A2:20:ILE:HD13	2.00	0.60
5:A7:43:ASP:HB2	5:A9:47:LEU:CD1	2.25	0.60
5:A7:44:LEU:CD2	5:A7:46:TRP:CE3	2.78	0.60
4:AH:182:LEU:HD13	4:AH:195:LEU:CG	2.31	0.60
2:AL:12:VAL:CG2	2:AL:13:ARG:N	2.64	0.60
2:AL:196:LEU:HD23	3:AM:216:PHE:CB	2.27	0.60
9:AL:301:BCL:HMB1	9:AL:301:BCL:CBB	2.32	0.60
2:AL:40:PHE:O	2:AL:43:THR:HB	2.00	0.60
5:AS:30:VAL:CG2	15:AS:101:PEF:C40	2.79	0.60
5:B1:14:ILE:CD1	5:B1:15:LEU:HG	2.31	0.60
14:B1:103:CRT:C2M	5:B5:36:HIS:HB3	2.32	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BK:26:ALA:O	5:BK:29:ILE:HG22	2.01	0.60
3:BM:59:LEU:CG	3:BM:128:LEU:HD21	2.31	0.60
5:BO:36:HIS:CE1	9:BP:101:BCL:CMD	2.83	0.60
5:BU:51:ILE:HB	5:BU:52:PRO:CA	2.29	0.60
5:BW:12:TRP:HZ2	6:BX:21:PHE:CG	2.18	0.60
5:BY:38:ILE:HD12	5:BY:39:VAL:N	2.16	0.60
6:A0:10:THR:H	6:A0:13:GLU:CG	2.15	0.60
5:BO:24:ILE:O	5:BO:27:PHE:HB3	2.00	0.60
1:BC:148:THR:HG23	1:BC:322:GLN:HA	1.82	0.60
2:BL:82:TYR:HB3	2:BL:85:ARG:HG3	1.83	0.60
5:A1:50:ASN:CG	5:A1:51:ILE:N	2.55	0.60
14:A5:103:CRT:H11	5:A7:21:LEU:HD13	1.83	0.60
6:AE:42:TYR:CD2	6:AE:43:ARG:HG3	2.36	0.60
5:AI:44:LEU:HA	5:AK:56:GLN:CB	2.31	0.60
3:AM:56:THR:HG21	3:AM:131:VAL:HG11	1.84	0.60
6:AV:20:ILE:O	6:AV:20:ILE:HD13	2.01	0.60
9:AX:101:BCL:CMC	5:AY:47:LEU:HD21	2.32	0.60
5:AY:8:LEU:HD12	6:AZ:22:MET:CE	2.31	0.60
5:B3:5:ASN:HA	5:B3:8:LEU:CG	2.31	0.60
9:B3:102:BCL:C1D	9:B4:101:BCL:HMD2	2.31	0.60
5:BA:33:LEU:H	5:BA:33:LEU:HD12	1.65	0.60
2:BL:231:TYR:OH	2:BL:233:ILE:HA	2.01	0.60
3:BM:244:ALA:C	3:BM:246:GLU:H	2.03	0.60
5:BQ:44:LEU:O	5:BQ:44:LEU:HD12	2.01	0.60
6:BT:10:THR:HG22	6:BT:11:ASP:N	2.12	0.60
4:AH:159:LEU:HB3	4:AH:212:ASP:HA	1.83	0.60
5:AY:21:LEU:O	5:AY:25:VAL:HG23	2.02	0.60
3:BM:148:TRP:HE3	3:BM:148:TRP:HA	1.65	0.60
5:A1:40:LEU:HB2	5:A1:46:TRP:CH2	2.35	0.60
5:A7:10:LYS:O	14:A0:101:CRT:H82	2.02	0.60
5:A7:7:ASN:H	5:A7:7:ASN:HD22	1.49	0.60
14:AA:102:CRT:H11	6:AE:17:PHE:CE1	2.36	0.60
5:AA:47:LEU:HD12	5:A9:43:ASP:CB	2.31	0.60
6:AB:20:ILE:O	6:AB:20:ILE:HD13	2.02	0.60
1:AC:185:TYR:O	3:AM:89:HIS:ND1	2.21	0.60
1:AC:212:ILE:O	1:AC:222:ASN:ND2	2.34	0.60
1:AC:276:VAL:HG13	1:AC:277:ARG:N	2.17	0.60
5:AF:40:LEU:CD2	5:AF:45:ASN:HA	2.31	0.60
3:AM:200:PRO:O	3:AM:203:MET:HG2	2.01	0.60
3:AM:229:PHE:O	3:AM:244:ALA:HB2	2.00	0.60
5:AU:5:ASN:HA	5:AU:8:LEU:HG	1.82	0.60
14:AS:104:CRT:H393	5:AW:36:HIS:CB	2.31	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:B1:10:LYS:HB3	14:B1:103:CRT:C5	2.30	0.60
5:B7:32:GLY:HA3	9:B7:103:BCL:O1A	2.02	0.60
9:B9:102:BCL:HBA2	9:B0:102:BCL:OBD	2.01	0.60
1:BC:266:ARG:O	1:BC:269:ALA:N	2.29	0.60
14:BA:102:CRT:H392	9:BF:102:BCL:HMB2	1.83	0.60
9:BG:101:BCL:HMA1	9:BI:102:BCL:HMA1	1.83	0.60
5:BI:55:TYR:CD1	5:BI:56:GLN:HG3	2.37	0.60
9:BN:101:BCL:C4B	9:BO:102:BCL:HBB3	2.32	0.60
5:BQ:43:ASP:HA	5:BS:47:LEU:C	2.21	0.60
14:BV:102:CRT:H2M3	5:BW:37:MET:HB2	1.84	0.60
5:BU:27:PHE:CE2	5:BW:29:ILE:HD11	2.36	0.60
9:BY:102:BCL:CBB	9:BY:102:BCL:HMB1	2.31	0.60
5:AI:18:ARG:CG	5:AI:18:ARG:HH11	2.14	0.60
2:BL:82:TYR:HA	2:BL:85:ARG:HE	1.64	0.60
6:A0:17:PHE:CE1	6:A0:21:PHE:CD2	2.90	0.60
6:A8:29:PHE:CZ	9:A8:101:BCL:H101	2.36	0.60
6:A8:31:LEU:O	6:A8:34:ILE:HG22	2.00	0.60
5:A9:43:ASP:OD1	5:A9:44:LEU:HD12	2.02	0.60
5:AD:36:HIS:NE2	9:AE:101:BCL:HMD1	2.16	0.60
5:AF:35:ILE:HA	5:AF:38:ILE:HG22	1.84	0.60
3:AM:201:PHE:CZ	4:AH:15:THR:HG22	2.36	0.60
2:AL:257:ILE:O	2:AL:257:ILE:HG13	2.00	0.60
5:AS:11:ILE:CA	14:AS:104:CRT:H82	2.27	0.60
9:AT:101:BCL:CBB	9:AT:101:BCL:HMB1	2.31	0.60
5:AU:13:LEU:HD22	6:AV:9:LEU:HB2	1.83	0.60
5:AU:42:THR:HB	5:AW:48:ASP:CG	2.22	0.60
5:AY:44:LEU:HD22	6:AZ:43:ARG:CD	2.30	0.60
5:BA:36:HIS:HB3	14:B0:101:CRT:H391	1.78	0.60
6:B2:17:PHE:HD1	14:B2:102:CRT:H6	1.62	0.60
14:BA:102:CRT:C2	6:BE:16:GLU:HG3	2.32	0.60
1:BC:225:SER:H	1:BC:228:GLN:NE2	2.00	0.60
4:BH:5:ILE:HG13	5:BF:40:LEU:HD21	1.81	0.60
2:BL:211:LYS:HD3	2:BL:212:GLY:N	2.15	0.60
2:BL:196:LEU:CD1	3:BM:216:PHE:HB2	2.30	0.60
3:BM:242:GLY:O	3:BM:246:GLU:HB2	2.01	0.60
3:BM:4:TYR:HE2	3:BM:10:ALA:HB2	1.66	0.60
9:BO:102:BCL:CBC	9:BP:101:BCL:HAC1	2.31	0.60
5:A1:27:PHE:CE2	5:A3:29:ILE:HD11	2.34	0.60
4:BH:215:LYS:H	4:BH:218:HIS:HD2	1.47	0.60
2:BL:172:GLN:HA	2:BL:172:GLN:HE21	1.67	0.60
1:AC:265:LYS:H	1:AC:265:LYS:HD2	1.66	0.60
4:AH:45:ARG:O	4:AH:96:PRO:HB3	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AM:103:GLY:C	3:AM:104:LEU:HD22	2.22	0.60
3:AM:179:ILE:O	3:AM:183:LEU:HB2	2.01	0.60
2:AL:230:GLY:CA	3:AM:51:ILE:HB	2.30	0.60
6:AR:30:GLY:O	6:AR:34:ILE:HG22	2.02	0.60
14:AW:102:CRT:H291	9:A1:102:BCL:O2A	2.02	0.60
6:BB:22:MET:CG	6:BB:26:TYR:OH	2.50	0.60
14:BG:102:CRT:H2M1	5:BI:33:LEU:O	2.02	0.60
5:BI:55:TYR:HD1	5:BI:56:GLN:H	1.48	0.60
3:BM:59:LEU:HD23	3:BM:128:LEU:HD21	1.84	0.60
5:BO:44:LEU:HD12	5:BO:46:TRP:N	2.16	0.60
6:BT:42:TYR:CE2	6:BT:43:ARG:HG2	2.36	0.60
9:BW:102:BCL:C2D	9:BX:101:BCL:C2D	2.80	0.60
5:BY:44:LEU:HD22	6:BZ:43:ARG:HD2	1.84	0.60
14:BW:103:CRT:H14	6:BZ:21:PHE:CD2	2.36	0.60
1:BC:148:THR:OG1	1:BC:322:GLN:HG2	2.02	0.60
6:AB:33:VAL:O	6:AB:37:LEU:HB2	2.02	0.60
6:A0:30:GLY:O	6:A0:34:ILE:HG22	2.02	0.60
14:A1:103:CRT:H2M3	5:A5:36:HIS:HB3	1.84	0.60
5:A1:30:VAL:HA	5:A1:33:LEU:HG	1.83	0.60
9:AB:101:BCL:CHB	9:AD:102:BCL:HMB3	2.32	0.60
1:AC:80:GLN:HG3	1:AC:128:ARG:HH22	1.66	0.60
4:AH:5:ILE:HD11	5:AF:47:LEU:HD12	1.84	0.60
5:AF:14:ILE:HD12	5:AI:21:LEU:HD22	1.84	0.60
2:AL:117:CYS:HA	2:AL:122:ILE:HD11	1.84	0.60
3:AM:104:LEU:HD22	3:AM:104:LEU:N	2.17	0.60
3:AM:275:LEU:HD21	4:AH:19:PHE:CE2	2.37	0.60
3:AM:32:GLY:O	3:AM:34:PRO:HD3	2.01	0.60
6:AP:22:MET:HG3	6:AP:26:TYR:HE2	1.67	0.60
9:AQ:102:BCL:C3D	6:AR:35:ALA:HB1	2.32	0.60
14:AW:102:CRT:H2M1	5:A1:36:HIS:HB3	1.84	0.60
5:AW:26:ALA:HA	5:AW:29:ILE:CG2	2.32	0.60
5:AW:27:PHE:HE1	14:AX:102:CRT:H30	1.65	0.60
9:AX:101:BCL:CHC	9:AY:102:BCL:HBB3	2.31	0.60
5:AY:4:MET:O	5:AY:8:LEU:N	2.35	0.60
5:BK:26:ALA:HA	5:BK:29:ILE:HG22	1.83	0.60
2:BL:185:ALA:HB2	2:BL:252:TRP:HB3	1.82	0.60
3:BM:163:ILE:O	3:BM:167:MET:HB2	2.02	0.60
3:BM:229:PHE:HD1	3:BM:229:PHE:H	1.49	0.60
3:BM:73:PHE:HA	14:BM:406:CRT:H1M1	1.84	0.60
5:BS:31:LEU:HD21	14:BS:103:CRT:H32	1.82	0.60
9:BZ:101:BCL:CHB	9:B1:102:BCL:HMB3	2.32	0.60
4:BH:172:VAL:HG23	4:BH:173:ASP:N	2.16	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AH:113:PRO:HB2	4:AH:249:TYR:CE2	2.36	0.60
3:AM:12:GLN:HB2	4:AH:145:ALA:CB	2.32	0.60
5:BD:51:ILE:CG2	5:BD:52:PRO:HA	2.32	0.60
6:B6:40:TRP:HZ3	6:B6:45:TRP:H	1.50	0.60
3:BM:98:PRO:HD2	3:BM:171:TRP:HB3	1.83	0.60
1:BC:170:PRO:HG2	1:BC:171:GLY:H	1.67	0.60
1:AC:52:SER:O	1:AC:56:ASN:HB2	2.01	0.60
1:BC:71:LYS:HD2	1:BC:71:LYS:N	2.16	0.60
5:A3:14:ILE:O	5:A5:18:ARG:HD3	2.02	0.60
1:AC:304:ARG:HG3	1:AC:304:ARG:HH11	1.65	0.60
5:AF:40:LEU:HD22	5:AF:45:ASN:HA	1.82	0.60
4:AH:69:LEU:HD11	4:AH:76:VAL:HG23	1.83	0.60
2:AL:186:ILE:HD13	9:AL:303:BCL:CMD	2.31	0.60
2:AL:276:LEU:H	2:AL:276:LEU:CD2	2.13	0.60
2:AL:75:ILE:HD12	2:AL:94:LEU:HD22	1.81	0.60
3:AM:34:PRO:HG2	3:AM:50:PRO:HD3	1.82	0.60
14:AP:102:CRT:O2	5:AQ:33:LEU:HD12	2.01	0.60
9:AW:101:BCL:HMB1	9:AW:101:BCL:CBB	2.31	0.60
9:AW:101:BCL:O1A	6:AX:28:TRP:CH2	2.54	0.60
6:B0:40:TRP:HZ3	6:B0:45:TRP:N	1.99	0.60
9:B1:102:BCL:HAC2	9:B2:101:BCL:CBC	2.32	0.60
9:B3:102:BCL:OBD	6:B4:32:VAL:HG13	2.02	0.60
5:BD:43:ASP:HB2	5:BF:47:LEU:HD22	1.84	0.60
5:BD:46:TRP:CZ3	9:BD:102:BCL:CBC	2.84	0.60
5:BI:7:ASN:O	5:BI:10:LYS:HD3	2.02	0.60
1:BC:237:MET:SD	2:BL:174:LEU:HD23	2.42	0.60
3:BM:200:PRO:HA	3:BM:203:MET:CG	2.32	0.60
5:BO:45:ASN:HB3	5:BO:48:ASP:OD1	2.01	0.60
5:BQ:50:ASN:ND2	5:BS:56:GLN:HA	2.10	0.60
5:BU:12:TRP:HA	5:BU:12:TRP:HE3	1.63	0.60
6:A0:10:THR:HG22	6:A0:11:ASP:N	2.14	0.60
6:B0:10:THR:H	6:B0:13:GLU:CG	2.14	0.60
4:AH:121:LYS:NZ	4:BH:73:GLY:HA2	2.16	0.60
6:AT:33:VAL:O	6:AT:37:LEU:HG	2.01	0.60
6:A0:45:TRP:HD1	6:A0:46:LEU:H	1.49	0.60
5:AI:36:HIS:O	5:AI:40:LEU:HD13	2.02	0.60
5:AI:46:TRP:HA	5:AI:49:ASP:OD2	2.02	0.60
2:AL:44:LEU:HB2	5:A9:30:VAL:HG11	1.83	0.60
3:AM:34:PRO:CG	3:AM:50:PRO:HD3	2.31	0.60
9:AN:101:BCL:H2	9:AN:101:BCL:H72	1.84	0.60
5:AO:31:LEU:HD21	14:AP:102:CRT:H32	1.83	0.60
9:AQ:102:BCL:CBB	9:AQ:102:BCL:HMB1	2.32	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AR:45:TRP:CD1	6:AR:46:LEU:N	2.69	0.60
5:AW:50:ASN:ND2	5:AW:51:ILE:HG12	2.17	0.60
9:AX:101:BCL:CHB	9:AY:102:BCL:HMB3	2.32	0.60
5:AY:8:LEU:HD23	6:A2:20:ILE:HD11	1.84	0.60
5:BY:50:ASN:HB3	5:B1:60:LYS:CA	2.32	0.60
5:B5:28:GLN:HB3	9:B5:102:BCL:C2	2.32	0.60
5:BF:32:GLY:N	9:BG:101:BCL:HED2	2.17	0.60
2:BL:230:GLY:HA2	3:BM:51:ILE:CB	2.26	0.60
9:BQ:103:BCL:HMB1	9:BQ:103:BCL:HBB3	1.83	0.60
5:BW:4:MET:C	5:BW:6:ALA:H	2.05	0.60
6:BX:45:TRP:CD2	9:BX:101:BCL:H2C	2.37	0.60
4:AH:113:PRO:HG2	4:AH:248:LEU:HD22	1.84	0.60
3:BM:299:VAL:CB	3:BM:304:ALA:HB3	2.29	0.60
5:A7:44:LEU:HD22	5:A7:46:TRP:CE3	2.37	0.59
5:A7:7:ASN:CB	5:A7:10:LYS:NZ	2.65	0.59
6:AB:23:GLN:O	5:A9:4:MET:SD	2.61	0.59
9:AB:101:BCL:HMA1	9:AD:102:BCL:HMA1	1.82	0.59
4:AH:13:GLN:O	4:AH:16:ILE:HG22	2.02	0.59
6:AJ:17:PHE:CD2	14:AJ:102:CRT:H41	2.37	0.59
9:AK:102:BCL:CBB	9:AK:102:BCL:HMB1	2.32	0.59
3:AM:102:TYR:CD1	3:AM:102:TYR:N	2.69	0.59
6:AP:20:ILE:CG2	6:AP:21:PHE:N	2.65	0.59
14:AS:104:CRT:C6	6:AV:20:ILE:HG21	2.32	0.59
5:B3:36:HIS:O	5:B3:40:LEU:HG	2.02	0.59
5:B3:12:TRP:HE1	6:B4:18:HIS:HB2	1.66	0.59
5:BF:49:ASP:HB2	5:BI:56:GLN:OE1	2.02	0.59
5:BI:17:PRO:O	5:BI:21:LEU:CB	2.50	0.59
3:BM:131:VAL:O	3:BM:133:THR:N	2.35	0.59
3:BM:226:VAL:HG13	3:BM:226:VAL:O	2.02	0.59
9:BM:401:BCL:HMB1	9:BM:401:BCL:CBB	2.32	0.59
9:BP:101:BCL:HMB3	9:BQ:103:BCL:C1B	2.32	0.59
5:BU:27:PHE:CD2	5:BW:29:ILE:HD11	2.37	0.59
1:AC:170:PRO:HG2	1:AC:171:GLY:N	2.17	0.59
6:AX:30:GLY:HA2	6:AX:33:VAL:HG12	1.84	0.59
1:AC:33:ILE:N	1:AC:33:ILE:HD12	2.17	0.59
5:A7:25:VAL:HA	9:A7:103:BCL:H52	1.83	0.59
14:AB:102:CRT:H33	5:A9:10:LYS:HB3	0.71	0.59
1:AC:226:LEU:HD12	3:AM:192:ARG:HB2	1.84	0.59
2:AL:196:LEU:C	2:AL:196:LEU:HD13	2.22	0.59
2:AL:216:LYS:HD2	2:AL:220:HIS:NE2	2.18	0.59
2:AL:279:PRO:O	2:AL:280:LEU:HD23	2.03	0.59
2:AL:242:GLY:HA2	3:AM:216:PHE:CE2	2.37	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AS:36:HIS:CE1	9:AT:101:BCL:CMD	2.84	0.59
5:AW:50:ASN:CG	5:AW:51:ILE:H	2.05	0.59
9:AW:101:BCL:HBC2	9:AX:101:BCL:HHH	1.84	0.59
5:B5:16:ASP:HB3	5:B5:17:PRO:HD2	1.83	0.59
5:B7:37:MET:HB2	14:B7:102:CRT:H2M1	1.83	0.59
5:BA:37:MET:O	5:BA:41:SER:HB2	2.01	0.59
5:BD:40:LEU:CD1	5:BD:47:LEU:HD23	2.32	0.59
9:BD:102:BCL:HBA2	9:BE:101:BCL:OBD	2.01	0.59
2:BL:252:TRP:O	2:BL:253:SER:C	2.41	0.59
5:BQ:31:LEU:CD2	9:BQ:104:BCL:HED3	2.32	0.59
5:BY:50:ASN:ND2	6:BZ:43:ARG:HH12	1.99	0.59
4:AH:249:TYR:O	4:AH:251:THR:N	2.35	0.59
1:AC:32:GLN:CB	2:AL:80:LEU:HD12	2.28	0.59
3:AM:14:ARG:HG3	3:AM:14:ARG:HH11	1.66	0.59
6:A4:13:GLU:CD	6:A4:13:GLU:H	2.06	0.59
6:AB:29:PHE:HE1	9:AB:101:BCL:C1	2.07	0.59
6:AG:17:PHE:CD1	6:AG:17:PHE:C	2.75	0.59
2:AL:46:GLY:O	2:AL:50:ILE:HG22	2.02	0.59
9:AM:401:BCL:CBB	9:AM:401:BCL:HMB1	2.32	0.59
15:AM:409:PEF:H52	15:AM:409:PEF:O1P	2.03	0.59
9:AO:102:BCL:CBB	9:AO:102:BCL:HMB1	2.32	0.59
5:B3:46:TRP:CZ3	9:B3:102:BCL:H2C	2.36	0.59
9:BE:101:BCL:HBB3	9:BE:101:BCL:HMB1	1.83	0.59
6:BJ:34:ILE:HD13	6:BJ:35:ALA:N	2.16	0.59
9:BW:102:BCL:CBB	9:BW:102:BCL:HMB1	2.32	0.59
1:AC:243:LEU:H	1:AC:243:LEU:CD1	2.16	0.59
5:BW:51:ILE:HB	5:BW:52:PRO:C	2.23	0.59
6:BZ:29:PHE:N	6:BZ:29:PHE:CD1	2.70	0.59
1:AC:71:LYS:HD3	1:AC:74:GLU:OE1	2.02	0.59
6:A2:21:PHE:CD1	14:A2:102:CRT:C14	2.85	0.59
5:AF:40:LEU:HD11	5:AF:47:LEU:HD12	1.85	0.59
2:AL:170:GLY:HA3	9:AL:301:BCL:HBC2	1.84	0.59
3:AM:236:ASP:OD1	3:AM:237:GLN:N	2.35	0.59
6:B0:21:PHE:CD1	6:B0:21:PHE:C	2.75	0.59
6:B4:13:GLU:H	6:B4:13:GLU:CD	2.06	0.59
6:B4:20:ILE:O	6:B4:20:ILE:HD13	2.02	0.59
5:BA:11:ILE:N	14:BA:102:CRT:H82	2.17	0.59
1:BC:211:ARG:C	1:BC:212:ILE:HD13	2.22	0.59
9:BE:101:BCL:CHB	9:BF:102:BCL:HMB3	2.32	0.59
6:BG:30:GLY:O	6:BG:34:ILE:HG23	2.02	0.59
3:BM:131:VAL:C	3:BM:133:THR:H	2.05	0.59
5:BU:12:TRP:CZ2	6:BV:17:PHE:CE2	2.91	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:BM:84:PHE:CZ	5:BU:38:ILE:HD12	2.38	0.59
14:BV:102:CRT:H392	5:BW:36:HIS:HB3	1.75	0.59
6:B2:46:LEU:HD22	6:B4:42:TYR:CE2	2.32	0.59
5:BF:21:LEU:O	5:BF:25:VAL:HG23	2.03	0.59
6:A6:45:TRP:HD1	6:A6:46:LEU:H	1.45	0.59
1:AC:236:MET:HA	1:AC:239:ILE:HD12	1.84	0.59
4:AH:135:PRO:HB3	4:AH:171:TRP:CE2	2.37	0.59
5:AK:5:ASN:ND2	6:AN:22:MET:HE3	2.18	0.59
2:AL:137:TYR:O	2:AL:141:VAL:HG12	2.02	0.59
2:AL:160:LEU:HD12	2:AL:160:LEU:C	2.23	0.59
6:AN:20:ILE:CD1	6:AN:20:ILE:H	2.14	0.59
6:AR:46:LEU:HD22	6:AT:42:TYR:CE2	2.37	0.59
5:AU:18:ARG:CD	5:AU:18:ARG:H	2.07	0.59
6:AV:42:TYR:CE2	6:AV:43:ARG:HG3	2.37	0.59
9:AY:102:BCL:CHD	9:AY:102:BCL:HBC2	2.32	0.59
5:AY:40:LEU:HD13	5:AY:46:TRP:CE2	2.37	0.59
6:AZ:36:HIS:CE1	9:AZ:101:BCL:NA	2.70	0.59
9:B2:101:BCL:CBB	9:B2:101:BCL:HMB1	2.33	0.59
6:B2:21:PHE:HA	14:B2:102:CRT:C12	2.32	0.59
5:B3:33:LEU:O	5:B3:37:MET:HG2	2.03	0.59
9:B4:101:BCL:C1B	9:B5:102:BCL:HMB3	2.32	0.59
5:B7:33:LEU:H	5:B7:33:LEU:HD12	1.67	0.59
9:B7:103:BCL:C3D	9:B8:101:BCL:C3D	2.80	0.59
1:BC:130:MET:HE1	1:BC:284:ILE:HD11	1.84	0.59
9:BF:102:BCL:HBC2	9:BG:101:BCL:HHH	1.85	0.59
4:BH:170:VAL:HA	4:BH:182:LEU:HA	1.84	0.59
4:BH:69:LEU:CD1	4:BH:76:VAL:HG23	2.32	0.59
6:BJ:46:LEU:HB3	6:BN:42:TYR:CZ	2.38	0.59
5:BI:27:PHE:CE2	5:BK:29:ILE:HD11	2.37	0.59
2:BL:154:GLY:HA2	17:BL:403:HOH:O	2.00	0.59
2:BL:223:THR:HG21	3:BM:20:GLY:HA2	1.85	0.59
3:BM:156:PHE:CZ	9:BM:402:BCL:HBD	2.27	0.59
6:BR:31:LEU:O	6:BR:34:ILE:HG13	2.03	0.59
3:BM:98:PRO:HB3	3:BM:107:PRO:HB3	1.83	0.59
14:A2:102:CRT:C31	9:A3:103:BCL:H3A	2.32	0.59
4:AH:55:VAL:CG1	5:AD:19:ARG:HD3	2.32	0.59
5:AI:43:ASP:OD2	9:AJ:101:BCL:HMC1	2.02	0.59
2:AL:71:TRP:CD1	3:AM:303:MET:HG2	2.36	0.59
3:AM:35:ILE:HG22	3:AM:36:PHE:N	2.18	0.59
6:B0:33:VAL:CG2	9:B0:102:BCL:H143	2.31	0.59
6:B4:29:PHE:CZ	9:B4:101:BCL:H101	2.36	0.59
5:B7:36:HIS:HB3	14:B7:102:CRT:C39	2.31	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:B7:103:BCL:C1D	9:B8:101:BCL:CMD	2.80	0.59
5:BA:47:LEU:HB3	5:B9:43:ASP:CA	2.32	0.59
9:BI:102:BCL:HBA2	9:BJ:101:BCL:OBD	2.03	0.59
5:BI:8:LEU:HB3	6:BJ:18:HIS:CE1	2.38	0.59
3:BM:260:VAL:HG23	3:BM:261:THR:N	2.16	0.59
6:BN:30:GLY:O	6:BN:33:VAL:HG12	2.02	0.59
5:BS:36:HIS:O	5:BS:40:LEU:N	2.31	0.59
6:BV:17:PHE:CD1	14:BV:102:CRT:C6	2.68	0.59
6:BX:46:LEU:HD22	6:BZ:42:TYR:OH	2.02	0.59
6:B2:42:TYR:CD1	6:B2:43:ARG:HG3	2.38	0.59
6:BJ:10:THR:HB	6:BJ:13:GLU:CD	2.23	0.59
6:BX:34:ILE:HD13	6:BX:34:ILE:O	2.02	0.59
4:BH:185:GLU:HA	4:BH:191:LYS:O	2.01	0.59
5:BI:19:ARG:O	5:BI:23:SER:HB3	2.03	0.59
5:A1:44:LEU:H	5:A1:44:LEU:HD23	1.65	0.59
6:A4:10:THR:HG22	6:A4:11:ASP:N	2.17	0.59
14:AA:102:CRT:H32	5:AD:31:LEU:HD21	1.84	0.59
5:AF:9:TYR:CZ	5:AF:10:LYS:HD3	2.38	0.59
9:AI:102:BCL:ND	9:AJ:101:BCL:HMD2	2.17	0.59
9:AJ:101:BCL:CHC	9:AK:102:BCL:CBB	2.80	0.59
5:AK:36:HIS:O	5:AK:40:LEU:HB2	2.02	0.59
3:AM:286:LEU:HD23	3:AM:290:VAL:HG21	1.84	0.59
5:AO:38:ILE:HG13	5:AO:39:VAL:N	2.16	0.59
5:AS:4:MET:HB2	5:AS:8:LEU:HD11	1.84	0.59
5:AY:44:LEU:HD13	6:AZ:43:ARG:CD	2.32	0.59
5:BA:29:ILE:HD12	9:BA:101:BCL:H11	1.83	0.59
9:BD:102:BCL:C2D	9:BE:101:BCL:C2D	2.81	0.59
3:BM:287:SER:OG	3:BM:294:TRP:NE1	2.36	0.59
6:BN:17:PHE:O	6:BN:21:PHE:HB3	2.03	0.59
5:BQ:31:LEU:HD23	9:BQ:104:BCL:HED3	1.85	0.59
5:BS:34:LEU:O	5:BS:38:ILE:HG22	2.02	0.59
5:BF:4:MET:O	5:BF:8:LEU:HG	2.02	0.59
6:B2:46:LEU:HB3	6:B4:42:TYR:OH	2.03	0.59
4:BH:95:ALA:HB2	5:B9:16:ASP:OD2	2.02	0.59
5:A5:24:ILE:CG1	9:A7:103:BCL:H201	2.32	0.59
1:AC:111:HIS:HE1	1:AC:124:LYS:HE2	1.68	0.59
9:AE:101:BCL:HMB3	9:AF:102:BCL:CHB	2.32	0.59
4:AH:151:PRO:O	4:AH:154:MET:HG3	2.01	0.59
4:AH:35:LYS:O	4:AH:36:ARG:C	2.41	0.59
5:AI:52:PRO:HG2	5:AI:55:TYR:HE2	1.68	0.59
9:AJ:101:BCL:HMB3	9:AK:102:BCL:C1B	2.32	0.59
5:AO:27:PHE:HE2	5:AQ:29:ILE:CD1	2.16	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AU:20:VAL:HG11	9:AW:101:BCL:H202	1.84	0.59
5:AW:8:LEU:O	5:AW:11:ILE:HG13	2.02	0.59
6:B6:29:PHE:CD1	9:B6:101:BCL:H11	2.38	0.59
5:B7:35:ILE:O	5:B7:38:ILE:HG22	2.02	0.59
4:BH:159:LEU:HD12	4:BH:159:LEU:C	2.23	0.59
4:BH:259:LEU:HD21	5:B5:19:ARG:C	2.23	0.59
5:BU:30:VAL:HG13	5:BU:31:LEU:N	2.18	0.59
3:BM:80:HIS:O	5:BU:41:SER:HB2	2.02	0.59
2:AL:145:PRO:HB3	2:AL:150:ALA:O	2.02	0.59
6:B0:10:THR:HG22	6:B0:11:ASP:N	2.15	0.59
1:BC:96:ALA:O	1:BC:98:THR:N	2.31	0.59
1:BC:107:CYS:O	1:BC:109:TYR:N	2.36	0.59
9:A1:102:BCL:HMD2	9:A2:101:BCL:CHD	2.33	0.59
6:A8:45:TRP:HA	5:A9:52:PRO:HD3	1.85	0.59
9:A9:102:BCL:CMD	6:A0:36:HIS:HD2	2.15	0.59
5:A9:46:TRP:NE1	5:A9:47:LEU:HD22	2.18	0.59
5:AA:22:VAL:HA	5:AA:25:VAL:CG2	2.32	0.59
1:AC:259:TRP:C	1:AC:261:GLN:H	2.05	0.59
4:AH:235:GLU:HA	4:AH:238:LYS:CB	2.31	0.59
2:AL:199:HIS:O	2:AL:201:SER:N	2.35	0.59
3:AM:176:PRO:HD3	3:AM:185:TRP:HD1	1.66	0.59
3:AM:211:GLY:O	3:AM:214:LEU:HB3	2.02	0.59
3:AM:25:LYS:HG2	5:AO:16:ASP:OD1	2.02	0.59
6:AN:13:GLU:HA	6:AN:16:GLU:OE1	2.03	0.59
6:AP:32:VAL:HG12	6:AP:36:HIS:HD1	1.66	0.59
5:AO:43:ASP:HB2	5:AQ:47:LEU:HB3	1.85	0.59
6:AT:17:PHE:CE1	14:AT:102:CRT:H9	2.38	0.59
5:AY:35:ILE:HA	5:AY:38:ILE:HG13	1.85	0.59
5:B9:31:LEU:HD23	9:B0:102:BCL:HED3	1.84	0.59
6:BB:25:MET:HG2	6:BB:29:PHE:CE2	2.37	0.59
5:BA:11:ILE:HD11	5:BD:21:LEU:HD21	1.85	0.59
14:BA:102:CRT:H32	5:BD:31:LEU:HD21	1.84	0.59
5:BA:42:THR:HG22	5:BD:48:ASP:OD2	2.02	0.59
5:BI:9:TYR:HA	6:BJ:18:HIS:ND1	2.17	0.59
5:BK:19:ARG:HG3	5:BK:20:VAL:H	1.68	0.59
3:BM:241:ARG:O	4:BH:119:ARG:HD3	2.03	0.59
3:BM:83:VAL:HG23	3:BM:84:PHE:HD1	1.68	0.59
6:BT:29:PHE:CE1	9:BT:101:BCL:H11	2.38	0.59
5:BU:11:ILE:HG12	14:BU:103:CRT:C8	2.32	0.59
6:BX:46:LEU:HB2	5:BY:52:PRO:CD	2.26	0.59
9:BY:102:BCL:CMD	6:BZ:36:HIS:HD2	2.15	0.59
5:BY:45:ASN:O	5:BY:48:ASP:N	2.36	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:BB:40:TRP:HZ3	6:BB:45:TRP:N	2.00	0.59
2:AL:70:LEU:O	2:AL:159:ILE:HB	2.03	0.59
5:A5:35:ILE:HA	5:A5:38:ILE:HG22	1.85	0.59
6:A0:17:PHE:CE1	6:A0:21:PHE:HD2	2.20	0.59
6:A0:32:VAL:HG12	6:A0:33:VAL:N	2.18	0.59
5:A1:5:ASN:HB3	5:A1:8:LEU:HD13	1.83	0.59
5:A3:14:ILE:CD1	6:A6:17:PHE:HE2	2.15	0.59
6:A6:40:TRP:HZ3	6:A6:45:TRP:N	2.00	0.59
5:A7:33:LEU:O	14:A7:102:CRT:H2M1	2.02	0.59
5:AA:17:PRO:HG2	5:AA:18:ARG:HD2	1.84	0.59
6:AB:44:PRO:HD2	5:AD:55:TYR:HE2	1.67	0.59
9:AF:102:BCL:ND	9:AG:101:BCL:CMD	2.64	0.59
9:AG:101:BCL:HMB3	9:AI:102:BCL:CHB	2.33	0.59
2:AL:270:GLU:O	2:AL:271:TRP:C	2.41	0.59
3:AM:156:PHE:CE2	3:AM:280:ALA:HB1	2.38	0.59
5:AO:46:TRP:CD1	5:AO:47:LEU:HD13	2.38	0.59
5:AQ:42:THR:O	5:AS:48:ASP:HB3	2.02	0.59
6:AV:29:PHE:CD1	9:AV:102:BCL:H11	2.38	0.59
5:B1:19:ARG:O	5:B1:23:SER:HB3	2.02	0.59
5:B3:12:TRP:HE1	6:B4:18:HIS:CB	2.16	0.59
9:B7:103:BCL:CAD	9:B8:101:BCL:CAD	2.80	0.59
5:B9:46:TRP:CH2	9:B9:102:BCL:HBC3	2.38	0.59
6:BE:21:PHE:HZ	9:BF:102:BCL:H203	1.67	0.59
5:BI:55:TYR:HD1	5:BI:56:GLN:N	2.01	0.59
3:BM:7:ILE:HG22	3:BM:8:PHE:CG	2.38	0.59
5:BO:29:ILE:HB	9:BO:102:BCL:C4	2.32	0.59
9:BX:101:BCL:CHB	9:BY:102:BCL:HMB3	2.32	0.59
1:AC:275:HIS:O	1:AC:279:ILE:HG13	2.03	0.59
5:A1:57:ALA:C	5:A1:59:GLY:H	2.06	0.59
3:BM:53:LEU:HG	3:BM:58:THR:HG23	1.85	0.59
5:BD:14:ILE:HD12	5:BD:14:ILE:N	2.18	0.59
6:A2:17:PHE:O	6:A2:20:ILE:HG22	2.03	0.58
5:A7:35:ILE:CD1	9:A8:101:BCL:O1D	2.50	0.58
9:AJ:101:BCL:C1C	9:AK:102:BCL:HBB3	2.32	0.58
2:AL:184:LEU:HD22	2:AL:252:TRP:HE1	1.66	0.58
2:AL:89:LEU:HG	2:AL:97:ILE:CD1	2.30	0.58
5:AI:7:ASN:ND2	6:AN:20:ILE:HG13	2.16	0.58
9:AT:101:BCL:HMA1	9:AU:102:BCL:HMA1	1.85	0.58
14:AW:102:CRT:H183	9:AY:102:BCL:H92	1.73	0.58
6:B0:30:GLY:O	6:B0:34:ILE:HG22	2.02	0.58
9:BZ:101:BCL:HMB3	9:B1:102:BCL:C1B	2.33	0.58
5:B7:26:ALA:O	5:B7:29:ILE:HG22	2.03	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:B7:40:LEU:HD11	5:B7:47:LEU:HD23	1.85	0.58
5:BD:36:HIS:CE1	9:BE:101:BCL:CMD	2.77	0.58
5:BI:11:ILE:N	14:BN:102:CRT:H82	2.18	0.58
9:BJ:101:BCL:C1B	9:BK:102:BCL:HMB3	2.33	0.58
2:BL:253:SER:OG	9:BL:301:BCL:HMA2	2.02	0.58
2:BL:4:LEU:HD12	3:BM:250:LEU:CD1	2.31	0.58
3:BM:138:GLU:C	3:BM:140:LEU:H	2.05	0.58
3:BM:265:ILE:HG23	3:BM:266:HIS:N	2.18	0.58
3:BM:274:VAL:HG12	3:BM:278:ILE:HD11	1.84	0.58
14:BN:102:CRT:H2M3	5:BO:36:HIS:HB3	1.85	0.58
6:BN:31:LEU:HA	6:BN:34:ILE:CG2	2.33	0.58
5:BO:50:ASN:HD21	6:BP:43:ARG:NH2	2.02	0.58
14:BV:102:CRT:H31	9:BW:102:BCL:HBA1	1.85	0.58
5:AI:22:VAL:HA	5:AI:25:VAL:HG23	1.85	0.58
5:BO:14:ILE:HG23	5:BO:15:LEU:HG	1.83	0.58
1:AC:53:ILE:HA	1:AC:319:TYR:CE1	2.37	0.58
9:AZ:101:BCL:H203	6:A2:38:LEU:HD11	1.83	0.58
6:A4:20:ILE:HD13	6:A4:20:ILE:O	2.03	0.58
6:AB:20:ILE:HG21	14:AB:102:CRT:H83	1.85	0.58
5:AD:51:ILE:HA	5:AD:53:VAL:H	1.68	0.58
9:AG:101:BCL:CHC	9:AI:102:BCL:HBB3	2.33	0.58
4:AH:67:PHE:N	4:AH:76:VAL:O	2.31	0.58
3:AM:222:THR:HG1	3:AM:252:TRP:HZ2	1.51	0.58
6:AN:41:LEU:HD23	6:AN:42:TYR:CA	2.33	0.58
6:AJ:46:LEU:HB3	6:AN:42:TYR:CZ	2.38	0.58
5:AQ:43:ASP:HA	5:AS:47:LEU:O	2.03	0.58
5:AU:45:ASN:O	5:AU:49:ASP:N	2.35	0.58
6:AX:21:PHE:HA	14:AX:102:CRT:H14	1.85	0.58
6:B4:10:THR:HG22	6:B4:11:ASP:N	2.17	0.58
1:BC:251:HIS:CE1	1:BC:256:PHE:O	2.55	0.58
1:BC:266:ARG:HG3	7:BC:503:HEM:CMD	2.33	0.58
9:BD:102:BCL:HMB1	9:BD:102:BCL:CBB	2.33	0.58
5:BI:44:LEU:HD12	5:BI:46:TRP:HE3	1.68	0.58
5:BI:49:ASP:OD1	5:BI:50:ASN:N	2.30	0.58
2:BL:116:ILE:HG22	2:BL:117:CYS:N	2.16	0.58
2:BL:196:LEU:HD11	3:BM:269:ALA:CB	2.29	0.58
3:BM:259:ASN:HD22	3:BM:259:ASN:N	2.01	0.58
3:BM:5:GLN:O	3:BM:7:ILE:N	2.36	0.58
5:BU:14:ILE:CD1	14:BU:103:CRT:H32A	2.33	0.58
3:BM:84:PHE:HA	5:BW:37:MET:CE	2.32	0.58
1:AC:31:GLU:HB2	1:AC:42:ASN:HB3	1.84	0.58
2:AL:148:MET:HB3	2:AL:153:HIS:CE1	2.38	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:BM:14:ARG:HG3	3:BM:14:ARG:HH11	1.67	0.58
5:A5:37:MET:HG2	5:A5:38:ILE:N	2.17	0.58
6:A0:32:VAL:HG21	9:A0:102:BCL:CGA	2.32	0.58
6:AZ:46:LEU:OXT	5:A1:51:ILE:HG13	2.03	0.58
1:AC:316:LYS:HD2	7:AC:504:HEM:O2D	2.02	0.58
2:AL:240:ARG:HH21	3:AM:6:ASN:C	2.05	0.58
9:AL:303:BCL:HBC1	9:AM:402:BCL:HBD	1.84	0.58
5:AQ:15:LEU:HA	5:AS:18:ARG:NH1	2.19	0.58
14:AS:104:CRT:H2M1	5:AW:37:MET:N	2.18	0.58
1:AC:176:SER:OG	5:AS:42:THR:HA	2.02	0.58
5:AU:38:ILE:HD11	5:AW:40:LEU:HD21	1.85	0.58
5:AU:43:ASP:OD2	5:AW:47:LEU:HA	2.03	0.58
6:B0:21:PHE:CB	14:B0:101:CRT:C11	2.79	0.58
9:B3:102:BCL:HMD1	6:B4:36:HIS:ND1	2.18	0.58
6:B4:13:GLU:O	6:B4:16:GLU:HG2	2.04	0.58
9:B8:101:BCL:CMC	9:B9:102:BCL:CBB	2.80	0.58
1:BC:301:ASP:HB2	1:BC:302:PRO:HD2	1.85	0.58
1:BC:135:ARG:HA	1:BC:330:LEU:O	2.03	0.58
3:BM:201:PHE:CZ	4:BH:16:ILE:HA	2.39	0.58
5:BF:42:THR:O	5:BI:48:ASP:HB3	2.03	0.58
2:BL:10:TYR:CD1	4:BH:112:GLY:HA2	2.38	0.58
2:BL:138:LEU:C	2:BL:140:LEU:H	2.04	0.58
2:BL:150:ALA:O	2:BL:153:HIS:HB3	2.03	0.58
3:BM:151:ALA:O	3:BM:155:PHE:N	2.36	0.58
5:BO:55:TYR:HD1	5:BO:55:TYR:N	2.02	0.58
9:BT:101:BCL:CBB	9:BT:101:BCL:HMB1	2.33	0.58
5:BU:38:ILE:HD11	5:BW:40:LEU:CD2	2.33	0.58
1:AC:142:LYS:HA	1:AC:145:VAL:CG2	2.31	0.58
5:BI:18:ARG:NH1	5:BI:18:ARG:CB	2.64	0.58
1:AC:62:LEU:HD11	1:AC:95:VAL:HB	1.85	0.58
5:BI:15:LEU:HB3	5:BI:20:VAL:HG21	1.84	0.58
1:AC:47:ARG:HD3	5:A1:42:THR:HG22	1.85	0.58
2:BL:72:ARG:HA	3:BM:305:PRO:HB3	1.86	0.58
3:BM:66:VAL:HG11	3:BM:121:PHE:HD2	1.68	0.58
6:A6:19:ALA:O	6:A6:23:GLN:HG2	2.03	0.58
1:AC:267:THR:HG21	3:AM:314:VAL:CB	2.29	0.58
9:AG:101:BCL:HMC3	9:AI:102:BCL:HBB1	1.84	0.58
6:AJ:21:PHE:CD1	6:AJ:21:PHE:C	2.73	0.58
2:AL:168:ASN:O	2:AL:170:GLY:N	2.36	0.58
2:AL:188:PHE:C	2:AL:190:PHE:N	2.57	0.58
6:AN:22:MET:HG3	6:AN:26:TYR:CE2	2.35	0.58
5:AQ:43:ASP:CA	5:AS:47:LEU:HB3	2.33	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AU:8:LEU:O	5:AU:11:ILE:HG13	2.02	0.58
5:AY:28:GLN:HG3	9:AY:102:BCL:H62	1.85	0.58
14:B5:103:CRT:C9	6:B8:17:PHE:HZ	2.16	0.58
1:BC:325:LYS:HA	1:BC:331:TYR:OH	2.04	0.58
9:BG:101:BCL:CHB	9:BI:102:BCL:HMB3	2.34	0.58
4:BH:32:ARG:HG3	4:BH:59:PRO:HB2	1.85	0.58
2:BL:244:PHE:O	2:BL:245:LEU:C	2.41	0.58
3:BM:246:GLU:O	3:BM:250:LEU:HB2	2.02	0.58
5:BO:26:ALA:HA	5:BO:29:ILE:HG22	1.85	0.58
14:BU:103:CRT:C2M	5:BY:37:MET:HG2	2.34	0.58
14:BU:103:CRT:H2M3	5:BY:36:HIS:C	2.23	0.58
1:AC:134:VAL:O	1:AC:137:ALA:HB3	2.02	0.58
6:BV:42:TYR:CD2	6:BV:43:ARG:HG3	2.39	0.58
1:BC:53:ILE:HG12	1:BC:319:TYR:CE1	2.38	0.58
3:BM:70:ILE:CG2	3:BM:118:ALA:HB2	2.32	0.58
1:BC:70:PRO:HG2	1:BC:71:LYS:H	1.68	0.58
6:A6:28:TRP:O	6:A6:31:LEU:N	2.36	0.58
4:AH:16:ILE:O	4:AH:16:ILE:HD13	2.03	0.58
2:AL:223:THR:HA	2:AL:226:ARG:CB	2.31	0.58
3:AM:235:ILE:CD1	3:AM:235:ILE:H	2.12	0.58
6:AN:41:LEU:CD2	6:AN:42:TYR:N	2.60	0.58
9:AU:102:BCL:O1D	9:AU:102:BCL:C2A	2.49	0.58
9:B3:102:BCL:HHC	9:B3:102:BCL:OBB	2.03	0.58
14:B7:102:CRT:H343	9:B7:103:BCL:HBA1	1.80	0.58
5:B7:37:MET:N	14:B7:102:CRT:H2M3	2.18	0.58
14:BF:103:CRT:H25	5:BI:28:GLN:NE2	2.18	0.58
3:BM:267:ARG:HB3	4:BH:30:LEU:HD21	1.86	0.58
2:BL:10:TYR:O	2:BL:12:VAL:N	2.36	0.58
2:BL:129:ALA:HA	2:BL:247:LEU:HD11	1.83	0.58
3:BM:207:ALA:O	3:BM:210:TYR:HB2	2.03	0.58
3:BM:61:ILE:HG12	3:BM:129:TRP:HZ3	1.67	0.58
6:BP:34:ILE:HD12	6:BP:35:ALA:N	2.19	0.58
5:BQ:50:ASN:HA	5:BS:60:LYS:CB	2.33	0.58
2:AL:83:GLY:O	2:AL:150:ALA:HA	2.04	0.58
2:AL:59:THR:HB	2:AL:63:SER:CB	2.31	0.58
4:BH:137:ARG:HG2	4:BH:137:ARG:HH11	1.68	0.58
3:AM:13:VAL:O	4:AH:177:PRO:HB2	2.03	0.58
6:BB:45:TRP:O	6:BB:46:LEU:CB	2.50	0.58
3:BM:28:LEU:HD12	3:BM:28:LEU:H	1.67	0.58
1:BC:85:LEU:HD11	1:BC:329:GLY:CA	2.34	0.58
5:AQ:54:SER:CB	5:AQ:57:ALA:HB3	2.33	0.58
6:A2:29:PHE:CD1	6:A2:29:PHE:N	2.69	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:A2:46:LEU:HB3	6:A4:42:TYR:OH	2.04	0.58
5:A7:16:ASP:O	5:A7:20:VAL:HG22	2.04	0.58
9:A7:103:BCL:HMD2	9:A8:101:BCL:C1D	2.33	0.58
9:AF:102:BCL:HMB1	9:AF:102:BCL:CBB	2.34	0.58
5:AK:5:ASN:HA	5:AK:8:LEU:CD1	2.34	0.58
2:AL:35:PHE:CZ	2:AL:111:LEU:HD12	2.39	0.58
3:AM:261:THR:C	3:AM:263:GLU:N	2.57	0.58
5:AO:50:ASN:HB3	5:AQ:55:TYR:HB2	1.85	0.58
9:B1:102:BCL:HED2	6:B2:31:LEU:O	2.03	0.58
5:B5:36:HIS:NE2	9:B6:101:BCL:HMD1	2.18	0.58
5:BA:27:PHE:CA	5:BA:30:VAL:HG12	2.34	0.58
1:BC:166:TRP:O	1:BC:166:TRP:CE3	2.56	0.58
9:BE:101:BCL:C1B	9:BF:102:BCL:CMB	2.76	0.58
6:BG:10:THR:HG22	6:BG:11:ASP:N	2.19	0.58
2:BL:36:GLY:HA2	2:BL:112:ARG:HD3	1.86	0.58
3:BM:32:GLY:O	3:BM:34:PRO:HD3	2.04	0.58
6:BV:17:PHE:HA	14:BV:102:CRT:H6	1.84	0.58
5:BW:20:VAL:O	5:BW:24:ILE:HG12	2.04	0.58
5:B3:56:GLN:H	5:B3:56:GLN:NE2	2.00	0.58
2:AL:172:GLN:HA	2:AL:172:GLN:HE21	1.68	0.58
1:AC:33:ILE:H	1:AC:33:ILE:HD12	1.69	0.58
6:A2:33:VAL:O	6:A2:37:LEU:HD23	2.03	0.58
5:A1:10:LYS:NZ	6:A4:20:ILE:HB	2.19	0.58
5:AY:43:ASP:HB2	5:A1:47:LEU:HG	1.86	0.58
5:A5:10:LYS:HB3	14:A5:103:CRT:O1	2.03	0.58
14:A7:102:CRT:H342	9:A7:103:BCL:HBA1	1.84	0.58
5:A7:11:ILE:CD1	5:A7:15:LEU:HD11	2.34	0.58
5:A7:36:HIS:NE2	9:A8:101:BCL:HMD1	2.19	0.58
6:AB:40:TRP:HA	6:AB:40:TRP:CE3	2.37	0.58
1:AC:122:TYR:CA	1:AC:125:VAL:HG23	2.33	0.58
14:AB:102:CRT:H342	9:AD:102:BCL:CBA	2.34	0.58
9:AD:102:BCL:HMB1	9:AD:102:BCL:CBB	2.33	0.58
3:AM:271:TRP:CD2	4:AH:26:LEU:HD21	2.38	0.58
9:AM:402:BCL:HMB1	9:AM:402:BCL:CBB	2.33	0.58
14:AS:104:CRT:H6	6:AV:20:ILE:HG21	1.85	0.58
5:AS:33:LEU:O	5:AS:37:MET:HB2	2.04	0.58
14:AT:102:CRT:H291	9:AU:102:BCL:O2A	2.03	0.58
5:B9:12:TRP:HZ2	6:B0:21:PHE:HE2	1.52	0.58
6:B6:28:TRP:O	6:B6:31:LEU:N	2.36	0.58
6:B8:22:MET:O	6:B8:26:TYR:HD2	1.87	0.58
1:BC:24:GLU:CD	2:BL:266:ARG:HH22	2.06	0.58
1:BC:255:ALA:HB1	1:BC:258:ASP:HB3	1.86	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BI:55:TYR:HD1	5:BI:56:GLN:HG3	1.68	0.58
3:BM:215:LEU:HA	3:BM:218:MET:HG3	1.84	0.58
10:BL:302:BPH:H162	9:BM:401:BCL:HMB3	1.84	0.58
5:BO:44:LEU:HD12	5:BO:46:TRP:H	1.69	0.58
5:BO:55:TYR:CD1	5:BO:55:TYR:N	2.71	0.58
9:BO:102:BCL:CAC	9:BP:101:BCL:HAC1	2.34	0.58
9:BO:102:BCL:CBD	9:BP:101:BCL:OBD	2.52	0.58
5:BY:42:THR:HB	5:B1:48:ASP:CG	2.24	0.58
9:BZ:101:BCL:HHC	9:BZ:101:BCL:OBB	2.03	0.58
5:AI:22:VAL:HA	5:AI:25:VAL:CG2	2.34	0.58
2:AL:148:MET:CB	2:AL:153:HIS:ND1	2.65	0.58
6:B6:40:TRP:HE3	6:B6:40:TRP:HA	1.69	0.58
5:A3:12:TRP:CD1	6:A4:18:HIS:HB2	2.37	0.58
1:AC:90:PHE:O	1:AC:93:THR:HB	2.02	0.58
2:AL:82:TYR:CA	2:AL:85:ARG:HE	2.16	0.58
5:AS:44:LEU:HD23	5:AS:44:LEU:H	1.68	0.58
9:AI:102:BCL:CBB	9:AI:102:BCL:HMB1	2.33	0.58
5:AI:55:TYR:HD1	5:AI:56:GLN:H	1.51	0.58
9:AM:401:BCL:H121	9:AM:401:BCL:HMA1	1.86	0.58
3:AM:120:LEU:HB2	14:AM:406:CRT:H35	1.84	0.58
3:AM:40:LEU:CD1	3:AM:48:ILE:HD11	2.31	0.58
9:AT:101:BCL:C4A	9:AU:102:BCL:HMB3	2.34	0.58
5:AU:20:VAL:CG1	9:AW:101:BCL:C20	2.81	0.58
6:AV:20:ILE:C	6:AV:20:ILE:HD13	2.24	0.58
14:B1:103:CRT:H2M3	5:B5:36:HIS:HB3	1.84	0.58
5:B3:46:TRP:CE3	9:B3:102:BCL:H2C	2.39	0.58
6:B6:19:ALA:O	6:B6:23:GLN:HG2	2.03	0.58
5:B9:32:GLY:CA	9:B0:102:BCL:HED2	2.33	0.58
4:BH:100:LEU:HB2	4:BH:111:PHE:CZ	2.39	0.58
5:BK:35:ILE:O	5:BK:38:ILE:HG22	2.04	0.58
2:BL:155:PHE:HB2	2:BL:156:PRO:HD2	1.86	0.58
2:BL:279:PRO:O	2:BL:280:LEU:HD23	2.03	0.58
2:BL:77:PRO:HB2	2:BL:152:GLY:HA2	1.85	0.58
3:BM:167:MET:HG2	3:BM:289:THR:HG21	1.85	0.58
3:BM:178:GLY:HA3	3:BM:181:PRO:HG2	1.85	0.58
3:BM:291:VAL:HG11	3:BM:297:TRP:HB2	1.85	0.58
2:AL:52:TRP:NE1	5:A9:41:SER:OG	2.34	0.58
3:BM:27:ASN:ND2	5:BO:19:ARG:HH11	2.00	0.58
4:BH:189:ASN:HB3	4:BH:191:LYS:HG3	1.84	0.58
5:AY:7:ASN:O	6:A2:20:ILE:HG13	2.03	0.58
5:A9:29:ILE:O	5:A9:33:LEU:HD13	2.04	0.58
1:AC:190:VAL:C	1:AC:192:TYR:N	2.56	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:151:THR:HG21	1:AC:323:MET:HB2	1.86	0.58
14:AJ:102:CRT:H342	9:AK:102:BCL:CBA	2.18	0.58
2:AL:253:SER:HB3	9:AL:301:BCL:HMA2	1.85	0.58
3:AM:166:VAL:HG22	3:AM:171:TRP:CH2	2.38	0.58
9:AK:102:BCL:CAD	9:AN:101:BCL:C3D	2.82	0.58
6:AN:13:GLU:CD	6:AN:13:GLU:H	2.07	0.58
3:AM:117:MET:SD	5:AQ:37:MET:HB3	2.43	0.58
9:AV:102:BCL:H192	9:AV:102:BCL:HBB1	1.84	0.58
5:B5:46:TRP:CZ3	9:B5:102:BCL:HBC3	2.39	0.58
6:B8:23:GLN:HG3	6:B8:24:SER:H	1.69	0.58
6:BB:22:MET:C	6:BB:26:TYR:HE1	2.06	0.58
1:BC:134:VAL:O	1:BC:137:ALA:HB3	2.03	0.58
1:BC:280:ASN:OD1	1:BC:304:ARG:CB	2.46	0.58
5:BK:28:GLN:HB2	9:BK:102:BCL:H43	1.85	0.58
3:BM:300:LYS:O	4:BH:8:TYR:HB2	2.04	0.58
5:BY:40:LEU:HD13	5:BY:46:TRP:CE2	2.39	0.58
1:AC:275:HIS:O	1:AC:278:ASP:HB3	2.04	0.58
6:BX:38:LEU:HD23	6:BX:38:LEU:C	2.24	0.58
6:BG:38:LEU:HA	6:BG:41:LEU:HD12	1.86	0.58
5:AA:44:LEU:HD12	5:AA:46:TRP:H	1.69	0.58
5:AF:42:THR:HG22	5:AI:47:LEU:HB3	1.85	0.58
4:AH:202:PHE:HB3	4:AH:204:LYS:NZ	2.19	0.58
4:AH:69:LEU:CD1	4:AH:76:VAL:HG23	2.34	0.58
2:AL:178:TYR:CD2	2:AL:269:PRO:HG3	2.34	0.58
3:AM:274:VAL:HG12	3:AM:278:ILE:CD1	2.34	0.58
14:AN:102:CRT:H2M3	5:AO:36:HIS:HB2	1.86	0.58
5:AQ:22:VAL:O	5:AQ:25:VAL:HG12	2.04	0.58
5:AQ:36:HIS:NE2	9:AR:101:BCL:HMD1	2.18	0.58
6:AP:46:LEU:CB	5:AQ:51:ILE:HG21	2.22	0.58
9:AZ:101:BCL:H203	6:A2:38:LEU:CD2	2.32	0.58
5:B1:11:ILE:HD13	9:B3:102:BCL:C15	2.34	0.58
5:B3:12:TRP:HE1	6:B4:18:HIS:HA	1.68	0.58
5:B3:13:LEU:HB2	14:B7:102:CRT:H21A	1.85	0.58
5:BA:47:LEU:HB3	5:B9:43:ASP:HB2	1.86	0.58
6:BB:17:PHE:O	6:BB:20:ILE:HG22	2.03	0.58
5:BF:49:ASP:O	5:BI:56:GLN:HB3	2.03	0.58
2:BL:184:LEU:CB	2:BL:252:TRP:HE1	2.17	0.58
2:BL:196:LEU:HD22	3:BM:216:PHE:HB2	1.84	0.58
3:BM:261:THR:O	3:BM:263:GLU:N	2.36	0.58
5:BO:12:TRP:NE1	6:BP:18:HIS:HA	2.18	0.58
5:BO:7:ASN:O	6:BR:20:ILE:HD11	2.04	0.58
14:BP:102:CRT:H2M2	5:BQ:37:MET:HG2	1.86	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BY:46:TRP:CH2	9:BY:102:BCL:HBC3	2.38	0.58
6:B8:46:LEU:O	5:B9:51:ILE:O	2.21	0.58
3:BM:14:ARG:HG3	3:BM:14:ARG:NH1	2.19	0.58
5:BA:18:ARG:CG	5:B9:14:ILE:HG23	2.33	0.58
5:A1:11:ILE:CA	14:A1:103:CRT:H82	2.34	0.57
5:AA:16:ASP:HB2	5:AA:18:ARG:HH11	1.69	0.57
3:AM:157:TYR:CE1	3:AM:158:LEU:HD23	2.39	0.57
3:AM:200:PRO:HA	3:AM:203:MET:SD	2.44	0.57
3:AM:280:ALA:O	3:AM:282:ILE:N	2.37	0.57
9:AO:102:BCL:C3D	9:AP:101:BCL:C3D	2.82	0.57
14:AS:104:CRT:H182	9:AU:102:BCL:C8	2.34	0.57
5:AU:45:ASN:H	5:AW:56:GLN:HE21	1.52	0.57
6:AZ:45:TRP:O	6:AZ:46:LEU:HG	2.04	0.57
9:B3:102:BCL:H2	6:B4:28:TRP:CH2	2.39	0.57
1:BC:110:CYS:HA	1:BC:123:THR:OG1	2.04	0.57
2:BL:164:ASP:O	2:BL:167:SER:N	2.37	0.57
3:BM:34:PRO:HG3	3:BM:50:PRO:HD3	1.86	0.57
3:BM:83:VAL:HA	3:BM:86:PHE:HB3	1.86	0.57
9:BO:102:BCL:HMB1	9:BO:102:BCL:CBB	2.33	0.57
5:BQ:50:ASN:CB	5:BS:56:GLN:HA	2.34	0.57
5:BW:26:ALA:HA	5:BW:29:ILE:HG22	1.86	0.57
5:B1:51:ILE:HA	5:B1:52:PRO:O	2.03	0.57
4:BH:130:LEU:HG	4:BH:131:PRO:CD	2.29	0.57
5:A3:12:TRP:HE1	6:A4:18:HIS:CA	2.15	0.57
6:AV:30:GLY:O	6:AV:33:VAL:HG12	2.04	0.57
4:BH:164:ALA:HB2	4:BH:216:ALA:CB	2.33	0.57
6:BR:38:LEU:C	6:BR:38:LEU:HD12	2.24	0.57
14:A1:103:CRT:H183	9:A3:103:BCL:H8	1.86	0.57
2:AL:48:LEU:HA	2:AL:51:VAL:CG2	2.34	0.57
2:AL:88:PRO:O	2:AL:91:GLU:N	2.36	0.57
5:AS:35:ILE:O	5:AS:36:HIS:C	2.42	0.57
6:B2:17:PHE:CA	14:B2:102:CRT:H41	2.32	0.57
9:B2:101:BCL:HMA1	9:B3:102:BCL:HMA1	1.86	0.57
5:B7:28:GLN:O	9:B8:101:BCL:HED1	2.04	0.57
6:B8:31:LEU:O	6:B8:34:ILE:CG2	2.52	0.57
5:B9:29:ILE:HB	9:B9:102:BCL:H43	1.86	0.57
5:BA:11:ILE:HD11	5:BD:21:LEU:CD2	2.33	0.57
2:BL:174:LEU:N	2:BL:174:LEU:HD12	2.19	0.57
9:BP:101:BCL:HMB3	9:BQ:103:BCL:CHB	2.34	0.57
3:AM:287:SER:OG	3:AM:294:TRP:NE1	2.37	0.57
5:AD:11:ILE:HG23	5:AD:12:TRP:CE3	2.38	0.57
6:A0:29:PHE:O	6:A0:32:VAL:HG12	2.03	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:A3:103:BCL:HMD1	6:A4:36:HIS:ND1	2.19	0.57
5:A7:4:MET:O	5:A7:8:LEU:HB2	2.04	0.57
5:AD:36:HIS:O	5:AD:40:LEU:CB	2.52	0.57
5:AF:43:ASP:HB3	5:AI:47:LEU:HG	1.86	0.57
4:AH:36:ARG:HE	4:AH:65:LYS:HD2	1.68	0.57
2:AL:89:LEU:CA	2:AL:94:LEU:H	2.00	0.57
2:AL:75:ILE:HG22	2:AL:95:TRP:HD1	1.69	0.57
3:AM:158:LEU:O	3:AM:163:ILE:HG22	2.03	0.57
3:AM:248:ALA:O	3:AM:251:PHE:N	2.35	0.57
5:B9:12:TRP:HD1	6:B0:14:ALA:O	1.88	0.57
5:BD:46:TRP:CD1	5:BD:47:LEU:HD22	2.39	0.57
4:BH:36:ARG:HE	4:BH:65:LYS:HD2	1.68	0.57
2:BL:163:LEU:HD23	3:BM:197:TYR:O	2.04	0.57
4:AH:178:GLN:O	4:AH:178:GLN:HG3	2.04	0.57
5:BD:50:ASN:ND2	5:BD:51:ILE:H	2.03	0.57
5:AI:14:ILE:HG23	5:AK:18:ARG:HB3	1.87	0.57
6:BZ:29:PHE:HD1	6:BZ:29:PHE:N	2.01	0.57
4:BH:215:LYS:HB2	4:BH:218:HIS:CD2	2.40	0.57
5:A5:10:LYS:HB2	14:A5:103:CRT:H5	1.86	0.57
6:A6:40:TRP:HA	6:A6:40:TRP:HE3	1.69	0.57
1:AC:271:TYR:O	1:AC:274:ARG:N	2.36	0.57
2:AL:138:LEU:C	2:AL:140:LEU:H	2.07	0.57
9:AK:102:BCL:CAC	9:AN:101:BCL:HBC3	2.33	0.57
9:AO:102:BCL:CBD	9:AP:101:BCL:CAD	2.82	0.57
9:AW:101:BCL:O1A	6:AX:28:TRP:HH2	1.87	0.57
14:BA:102:CRT:C14	6:BE:21:PHE:HA	2.35	0.57
6:BG:12:ASP:O	6:BG:16:GLU:HG3	2.04	0.57
6:BG:42:TYR:OH	6:BG:43:ARG:NH2	2.38	0.57
5:BI:36:HIS:CE1	9:BI:102:BCL:NA	2.73	0.57
5:BK:20:VAL:O	5:BK:24:ILE:HG13	2.03	0.57
2:BL:119:LYS:C	2:BL:121:GLY:H	2.07	0.57
2:BL:50:ILE:HA	2:BL:98:ILE:HD11	1.85	0.57
3:BM:260:VAL:HB	3:BM:264:SER:OG	2.03	0.57
9:BL:303:BCL:OBB	14:BM:406:CRT:H243	2.05	0.57
5:BO:9:TYR:HA	6:BP:18:HIS:ND1	2.18	0.57
6:BP:17:PHE:HA	6:BP:20:ILE:CG2	2.35	0.57
5:BQ:46:TRP:CZ2	9:BQ:103:BCL:H2C	2.39	0.57
14:BS:103:CRT:H14	6:BT:21:PHE:CD2	2.38	0.57
9:BV:101:BCL:C4A	9:BW:102:BCL:HMB3	2.35	0.57
6:BZ:45:TRP:CE3	9:BZ:101:BCL:HAC2	2.40	0.57
4:BH:204:LYS:H	4:BH:204:LYS:CD	2.14	0.57
5:A3:26:ALA:O	5:A3:29:ILE:HG22	2.05	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AD:8:LEU:O	5:AD:11:ILE:HG22	2.04	0.57
9:A2:101:BCL:C1B	9:A3:103:BCL:HMB3	2.34	0.57
6:A2:25:MET:HE2	9:A3:103:BCL:H171	1.87	0.57
5:A3:40:LEU:HD21	5:A3:46:TRP:CH2	2.40	0.57
5:A7:26:ALA:O	5:A7:29:ILE:HG22	2.05	0.57
14:AB:102:CRT:C3	5:A9:10:LYS:CA	2.82	0.57
6:AB:40:TRP:HA	6:AB:40:TRP:HE3	1.69	0.57
4:AH:182:LEU:HD13	4:AH:195:LEU:HG	1.87	0.57
4:AH:54:LYS:HE3	5:AD:23:SER:HB2	1.84	0.57
2:AL:235:ALA:HA	11:AL:304:UQ8:C3M	2.34	0.57
5:AO:49:ASP:OD2	6:AP:43:ARG:NH2	2.37	0.57
5:BA:37:MET:SD	14:B0:101:CRT:H2M2	2.45	0.57
5:B3:4:MET:SD	6:B6:23:GLN:NE2	2.77	0.57
5:BA:44:LEU:HD11	5:BA:46:TRP:HE3	1.69	0.57
6:BB:18:HIS:O	6:BB:18:HIS:ND1	2.35	0.57
1:BC:285:TRP:CE3	1:BC:302:PRO:HG3	2.40	0.57
5:BD:8:LEU:C	5:BD:10:LYS:H	2.08	0.57
9:BI:102:BCL:HMD1	6:BJ:36:HIS:CD2	2.39	0.57
3:BM:154:ILE:HG22	3:BM:154:ILE:O	2.03	0.57
3:BM:159:VAL:HG21	3:BM:281:GLY:CA	2.33	0.57
9:BW:102:BCL:HED1	6:BX:31:LEU:O	2.05	0.57
1:AC:28:PRO:HD3	2:AL:262:PRO:HA	1.85	0.57
6:BV:43:ARG:HB3	5:BW:55:TYR:CE2	2.40	0.57
4:AH:189:ASN:OD1	4:AH:220:ALA:HA	2.04	0.57
2:AL:219:GLU:CG	4:AH:127:PHE:HB2	2.34	0.57
4:BH:105:ASP:OD1	4:BH:107:MET:HB3	2.05	0.57
5:A3:13:LEU:HD12	14:A7:102:CRT:C1M	2.33	0.57
5:A7:29:ILE:CG2	5:A7:30:VAL:H	2.18	0.57
6:A8:29:PHE:CZ	9:A8:101:BCL:C6	2.88	0.57
5:A7:49:ASP:O	5:A9:59:GLY:HA3	2.03	0.57
9:AA:101:BCL:CBB	9:AA:101:BCL:HMB1	2.35	0.57
2:AL:154:GLY:O	2:AL:165:TRP:NE1	2.38	0.57
2:AL:204:LEU:CD1	3:AM:267:ARG:HD2	2.35	0.57
3:AM:234:GLU:O	3:AM:235:ILE:C	2.43	0.57
5:AQ:51:ILE:HG23	5:AQ:52:PRO:N	2.18	0.57
5:B3:12:TRP:HE1	6:B4:18:HIS:CA	2.17	0.57
14:B5:103:CRT:H32	5:B7:31:LEU:HD21	1.85	0.57
6:B8:26:TYR:HA	6:B8:29:PHE:HB3	1.87	0.57
9:BA:101:BCL:HBC1	9:BB:101:BCL:CB	2.33	0.57
5:BA:43:ASP:HA	5:BD:48:ASP:CB	2.27	0.57
1:BC:283:TYR:O	1:BC:286:PRO:HD2	2.05	0.57
1:BC:325:LYS:O	1:BC:325:LYS:HD3	2.05	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BQ:40:LEU:HD12	5:BQ:45:ASN:HA	1.86	0.57
6:BV:17:PHE:HA	14:BV:102:CRT:C6	2.34	0.57
14:BU:103:CRT:C2M	5:BY:36:HIS:C	2.72	0.57
2:AL:52:TRP:O	2:AL:55:THR:HB	2.04	0.57
6:B6:40:TRP:CE3	6:B6:40:TRP:HA	2.38	0.57
6:AV:30:GLY:O	6:AV:34:ILE:HG13	2.04	0.57
9:A3:103:BCL:HMB1	9:A3:103:BCL:CBB	2.35	0.57
6:A8:22:MET:O	6:A8:26:TYR:HD2	1.87	0.57
1:AC:126:VAL:O	1:AC:129:ARG:N	2.38	0.57
2:AL:10:TYR:CD1	4:AH:112:GLY:HA2	2.40	0.57
9:AL:301:BCL:HBB3	9:AL:303:BCL:HMD2	1.87	0.57
6:AN:34:ILE:HD13	6:AN:34:ILE:C	2.25	0.57
9:AN:101:BCL:CHB	9:AO:102:BCL:HMB3	2.34	0.57
5:AS:34:LEU:CA	15:AS:101:PEF:H442	2.34	0.57
9:AU:102:BCL:HHD	9:AU:102:BCL:HBC2	1.87	0.57
6:B0:45:TRP:HD1	6:B0:46:LEU:H	1.52	0.57
5:B3:27:PHE:HE2	5:B5:29:ILE:HD12	1.70	0.57
1:BC:268:THR:CG2	7:BC:504:HEM:HAA1	2.34	0.57
2:BL:124:PHE:O	2:BL:127:PRO:HD2	2.03	0.57
3:BM:208:PHE:CE1	3:BM:275:LEU:HB3	2.40	0.57
5:BS:39:VAL:O	5:BS:42:THR:HB	2.03	0.57
6:BT:36:HIS:CE1	9:BT:101:BCL:NA	2.72	0.57
6:AR:10:THR:HG22	6:AR:11:ASP:N	2.16	0.57
4:AH:186:VAL:HG12	4:AH:187:ALA:N	2.19	0.57
5:A9:17:PRO:O	5:A9:21:LEU:HB2	2.05	0.57
5:A1:12:TRP:CD1	6:A2:18:HIS:HA	2.40	0.57
9:A8:101:BCL:CMC	9:A9:102:BCL:HBB1	2.23	0.57
1:AC:233:PHE:O	1:AC:236:MET:HB2	2.04	0.57
14:AA:102:CRT:C14	6:AE:21:PHE:HA	2.34	0.57
9:AE:101:BCL:HMB3	9:AF:102:BCL:C1B	2.35	0.57
5:AF:9:TYR:CE1	6:AG:15:LYS:HG3	2.40	0.57
6:AG:38:LEU:HD23	6:AG:39:ALA:N	2.20	0.57
9:AJ:101:BCL:CBB	9:AJ:101:BCL:HMB1	2.35	0.57
2:AL:252:TRP:O	2:AL:253:SER:C	2.43	0.57
2:AL:252:TRP:O	2:AL:255:VAL:N	2.38	0.57
9:AL:301:BCL:CHC	9:AM:402:BCL:CHC	2.83	0.57
3:AM:215:LEU:O	3:AM:217:ALA:N	2.38	0.57
5:AO:9:TYR:CD1	6:AP:15:LYS:HD2	2.40	0.57
5:AU:43:ASP:HB2	5:AW:47:LEU:HD22	1.85	0.57
5:AW:10:LYS:NZ	14:AW:102:CRT:H1M2	2.19	0.57
14:AX:102:CRT:C2M	5:AY:36:HIS:HB2	2.35	0.57
5:BD:31:LEU:HB3	9:BE:101:BCL:HED3	1.86	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BF:40:LEU:HD11	5:BF:47:LEU:HD12	1.86	0.57
2:BL:171:TYR:C	2:BL:173:PHE:H	2.08	0.57
9:BL:301:BCL:H41	9:BL:301:BCL:H71	1.87	0.57
10:BL:302:BPH:H162	9:BM:401:BCL:CMB	2.34	0.57
5:BU:19:ARG:CZ	5:BW:18:ARG:NH2	2.67	0.57
6:BX:45:TRP:CE2	9:BX:101:BCL:H2C	2.39	0.57
2:AL:22:LEU:HD22	5:A7:19:ARG:HB2	1.86	0.57
2:AL:52:TRP:HE1	5:A9:38:ILE:HA	1.69	0.57
5:BD:9:TYR:HB2	6:BE:15:LYS:CA	2.35	0.57
5:BI:18:ARG:HH11	5:BI:18:ARG:CB	2.17	0.57
1:BC:53:ILE:O	1:BC:55:ALA:N	2.37	0.57
1:BC:164:TYR:CD2	1:BC:312:GLN:HG2	2.40	0.57
1:BC:155:CYS:O	1:BC:162:PRO:HB3	2.05	0.57
6:B8:10:THR:HG22	6:B8:11:ASP:N	2.20	0.57
9:A0:102:BCL:H18	9:A0:102:BCL:HBB1	1.87	0.57
14:A1:103:CRT:H401	5:A3:38:ILE:HD12	1.87	0.57
5:A1:8:LEU:CD2	5:A1:9:TYR:N	2.60	0.57
6:AZ:46:LEU:HD22	6:A2:42:TYR:CZ	2.39	0.57
5:A3:32:GLY:CA	9:A3:104:BCL:HED2	2.34	0.57
1:AC:167:VAL:HG23	1:AC:301:ASP:CG	2.25	0.57
2:AL:129:ALA:HA	2:AL:247:LEU:CD1	2.33	0.57
3:AM:240:HIS:CE1	4:AH:69:LEU:HD21	2.40	0.57
3:AM:5:GLN:O	3:AM:7:ILE:N	2.38	0.57
14:BW:103:CRT:C39	9:B1:102:BCL:HMB2	2.35	0.57
14:B1:103:CRT:H372	5:B3:35:ILE:HD11	1.87	0.57
5:B1:18:ARG:NH1	5:B1:18:ARG:HG2	2.19	0.57
5:B3:20:VAL:HA	5:B3:23:SER:HB3	1.86	0.57
5:B7:43:ASP:HA	5:B9:48:ASP:CB	2.29	0.57
5:B7:43:ASP:N	5:B9:48:ASP:HB3	2.19	0.57
9:B8:101:BCL:C1C	9:B9:102:BCL:CBB	2.81	0.57
4:BH:47:GLU:HG3	5:BA:19:ARG:CG	2.35	0.57
5:BA:52:PRO:HD3	6:B0:45:TRP:O	2.05	0.57
1:BC:298:PRO:C	1:BC:300:GLY:H	2.07	0.57
6:BE:45:TRP:HA	5:BF:52:PRO:CG	2.34	0.57
14:BG:102:CRT:H2M2	5:BI:37:MET:HE1	1.87	0.57
5:BI:50:ASN:CG	5:BI:51:ILE:N	2.57	0.57
2:BL:12:VAL:HG22	2:BL:13:ARG:H	1.67	0.57
3:BM:77:ALA:O	3:BM:78:SER:C	2.41	0.57
6:BP:20:ILE:HG21	14:BP:102:CRT:C6	2.34	0.57
5:BS:29:ILE:HG23	5:BS:30:VAL:H	1.70	0.57
5:BU:13:LEU:C	6:BV:7:THR:HA	2.25	0.57
5:BW:4:MET:O	5:BW:6:ALA:N	2.38	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:BY:102:BCL:CMD	6:BZ:36:HIS:CD2	2.88	0.57
6:B2:38:LEU:O	6:B2:41:LEU:HG	2.05	0.57
5:AI:22:VAL:O	5:AI:25:VAL:HB	2.05	0.57
4:BH:134:VAL:HG21	4:BH:174:ARG:HH21	1.70	0.57
3:BM:14:ARG:HD2	4:BH:146:GLU:OE1	2.04	0.57
4:BH:194:LEU:HG	4:BH:225:LEU:HD23	1.87	0.57
1:BC:29:GLY:O	1:BC:30:THR:HG23	2.05	0.57
9:A0:102:BCL:HMB1	9:A0:102:BCL:CBB	2.35	0.57
5:AA:21:LEU:O	5:AA:25:VAL:HG23	2.05	0.57
5:AA:50:ASN:CG	5:AA:51:ILE:N	2.58	0.57
1:AC:196:PRO:HG3	1:AC:231:TRP:CD1	2.40	0.57
1:AC:284:ILE:HD12	7:AC:502:HEM:HMD3	1.87	0.57
3:AM:275:LEU:CD2	4:AH:19:PHE:HE2	2.17	0.57
2:AL:109:TRP:HZ2	10:AL:302:BPH:HED3	1.70	0.57
2:AL:177:HIS:CD2	9:AL:301:BCL:CMC	2.88	0.57
5:AS:18:ARG:O	5:AS:22:VAL:HG23	2.05	0.57
5:AS:46:TRP:CZ2	9:AS:103:BCL:CHC	2.87	0.57
5:AU:19:ARG:CZ	5:AW:18:ARG:NH2	2.68	0.57
6:AX:29:PHE:CZ	14:AX:102:CRT:H242	2.40	0.57
6:B2:20:ILE:HG21	14:B2:102:CRT:C6	2.32	0.57
1:BC:142:LYS:O	1:BC:146:ALA:HA	2.05	0.57
9:BB:101:BCL:C4B	9:BD:102:BCL:HBB3	2.34	0.57
4:BH:113:PRO:HB2	4:BH:249:TYR:CE2	2.40	0.57
5:BK:44:LEU:O	5:BK:44:LEU:HD13	2.04	0.57
3:BM:59:LEU:CD2	3:BM:128:LEU:HD21	2.34	0.57
3:BM:132:ARG:HD3	3:BM:132:ARG:O	2.05	0.57
3:BM:160:LEU:CD2	3:BM:284:ILE:HG21	2.34	0.57
3:BM:170:SER:C	3:BM:172:ALA:N	2.58	0.57
6:BP:38:LEU:HD23	6:BP:38:LEU:C	2.25	0.57
5:BU:31:LEU:HD12	5:BU:34:LEU:HD23	1.86	0.57
5:BU:38:ILE:HD11	5:BW:40:LEU:HD23	1.87	0.57
6:BZ:42:TYR:CD1	6:BZ:43:ARG:HG3	2.40	0.57
5:BO:4:MET:CB	6:BR:23:GLN:HG3	2.32	0.57
6:BT:24:SER:O	6:BT:27:ALA:HB3	2.05	0.57
6:AG:10:THR:HG22	6:AG:11:ASP:N	2.20	0.57
6:BZ:30:GLY:O	6:BZ:34:ILE:HG12	2.04	0.57
14:A5:103:CRT:C9	6:A8:17:PHE:HZ	2.17	0.56
6:A8:23:GLN:HG3	6:A8:24:SER:H	1.69	0.56
5:A9:2:PHE:HE1	6:A0:26:TYR:OH	1.88	0.56
6:AB:29:PHE:O	6:AB:32:VAL:HG12	2.03	0.56
1:AC:265:LYS:N	1:AC:265:LYS:HD2	2.19	0.56
9:AG:101:BCL:HMB1	9:AG:101:BCL:CBB	2.35	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AM:157:TYR:CD1	3:AM:157:TYR:C	2.79	0.56
3:AM:241:ARG:HG2	3:AM:242:GLY:N	2.16	0.56
3:AM:31:ILE:O	3:AM:50:PRO:HB2	2.05	0.56
1:AC:173:LYS:HB3	3:AM:80:HIS:HB2	1.86	0.56
6:AT:36:HIS:CE1	9:AT:101:BCL:NA	2.73	0.56
5:AU:14:ILE:HB	14:AX:102:CRT:C8	2.35	0.56
5:AW:4:MET:O	5:AW:8:LEU:HG	2.05	0.56
9:B7:103:BCL:HBA2	9:B8:101:BCL:OBD	2.04	0.56
6:B8:17:PHE:O	6:B8:20:ILE:HG22	2.05	0.56
5:BA:27:PHE:HA	5:BA:30:VAL:CG1	2.35	0.56
1:BC:224:ALA:HB1	1:BC:228:GLN:OE1	2.05	0.56
5:BD:8:LEU:O	5:BD:11:ILE:HG22	2.04	0.56
5:BK:16:ASP:O	5:BK:20:VAL:HG22	2.05	0.56
2:BL:12:VAL:CG2	2:BL:13:ARG:N	2.68	0.56
2:BL:151:TRP:C	2:BL:153:HIS:H	2.08	0.56
2:BL:195:ALA:HA	2:BL:198:MET:CE	2.34	0.56
3:BM:216:PHE:O	3:BM:216:PHE:CD1	2.58	0.56
3:BM:236:ASP:OD1	3:BM:237:GLN:N	2.38	0.56
3:BM:307:TYR:N	3:BM:307:TYR:CD1	2.72	0.56
6:BP:21:PHE:CD1	14:BP:102:CRT:H14	2.40	0.56
6:BR:45:TRP:O	6:BR:46:LEU:HB2	2.05	0.56
5:BU:14:ILE:H	14:BU:103:CRT:C2	2.17	0.56
3:BM:84:PHE:CZ	5:BU:38:ILE:CD1	2.88	0.56
2:AL:52:TRP:O	2:AL:56:ILE:HG12	2.05	0.56
5:A3:20:VAL:HG13	9:A5:102:BCL:H203	1.86	0.56
9:A7:103:BCL:HMB1	9:A7:103:BCL:CBB	2.35	0.56
6:A8:31:LEU:O	6:A8:34:ILE:CG2	2.52	0.56
5:A9:51:ILE:CB	5:A9:52:PRO:HA	2.34	0.56
1:AC:276:VAL:HG13	1:AC:277:ARG:H	1.70	0.56
6:AE:46:LEU:HD22	6:AG:42:TYR:CZ	2.40	0.56
4:AH:69:LEU:CB	4:AH:70:PRO:HD2	2.36	0.56
5:AI:9:TYR:HA	6:AJ:18:HIS:CG	2.40	0.56
3:AM:200:PRO:CA	3:AM:203:MET:HG2	2.31	0.56
3:AM:156:PHE:HD2	9:AM:402:BCL:H52	1.68	0.56
9:AK:102:BCL:HBD	9:AN:101:BCL:CAD	2.34	0.56
5:AY:45:ASN:HB3	5:AY:49:ASP:HB3	1.86	0.56
6:BB:33:VAL:O	6:BB:37:LEU:HB2	2.06	0.56
1:BC:205:ASP:HB2	1:BC:304:ARG:HE	1.69	0.56
1:BC:271:TYR:O	1:BC:274:ARG:N	2.38	0.56
6:BE:29:PHE:CD1	9:BE:101:BCL:H2	2.40	0.56
5:BF:12:TRP:NE1	6:BG:17:PHE:CD1	2.73	0.56
6:BG:17:PHE:CE1	6:BG:21:PHE:HD2	2.23	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:182:HIS:HB2	2:BL:256:CYS:SG	2.45	0.56
2:BL:71:TRP:N	2:BL:71:TRP:HE3	2.03	0.56
5:BO:34:LEU:HA	5:BO:37:MET:HB2	1.87	0.56
5:BS:8:LEU:HD22	5:BS:11:ILE:HD11	1.87	0.56
5:B1:44:LEU:CD1	6:B2:43:ARG:HD2	2.31	0.56
4:BH:125:LEU:HB2	4:BH:129:GLY:O	2.04	0.56
5:AK:18:ARG:O	5:AK:22:VAL:HG12	2.05	0.56
6:AE:9:LEU:HB3	6:AE:13:GLU:OE2	2.05	0.56
4:BH:203:ASP:O	4:BH:205:LYS:N	2.39	0.56
1:AC:242:SER:O	1:AC:313:ALA:CA	2.52	0.56
9:AE:101:BCL:HMB1	9:AE:101:BCL:CBB	2.35	0.56
4:AH:35:LYS:HG2	4:AH:39:TYR:CE2	2.41	0.56
5:AK:12:TRP:CD1	6:AN:17:PHE:HB3	2.40	0.56
2:AL:139:VAL:HG11	2:AL:254:ALA:HB1	1.88	0.56
3:AM:208:PHE:C	3:AM:210:TYR:N	2.57	0.56
5:AQ:43:ASP:HB2	5:AS:47:LEU:HB3	1.88	0.56
6:AX:17:PHE:CZ	14:AX:102:CRT:H42	2.40	0.56
5:AY:52:PRO:HD2	5:AY:55:TYR:OH	2.05	0.56
5:A1:26:ALA:O	5:A1:29:ILE:HG22	2.05	0.56
5:A1:44:LEU:N	5:A1:44:LEU:HD23	2.21	0.56
9:A1:102:BCL:H71	6:A2:28:TRP:CD2	2.40	0.56
5:AA:47:LEU:HB3	5:A9:43:ASP:CA	2.35	0.56
4:AH:173:ASP:OD1	4:AH:174:ARG:N	2.38	0.56
4:AH:166:THR:O	4:AH:184:VAL:HG13	2.06	0.56
5:AI:44:LEU:HD12	5:AI:46:TRP:HE3	1.70	0.56
6:AJ:40:TRP:HZ3	6:AJ:46:LEU:HG	1.70	0.56
1:AC:17:SER:HB3	3:AM:91:PHE:HZ	1.70	0.56
5:AU:17:PRO:O	5:AU:21:LEU:HG	2.04	0.56
9:AW:101:BCL:CMD	6:AX:36:HIS:HA	2.36	0.56
14:AS:104:CRT:H2M1	5:AW:37:MET:CA	2.35	0.56
5:B3:28:GLN:HA	5:B3:28:GLN:NE2	2.21	0.56
5:BA:9:TYR:CB	6:BB:18:HIS:HD2	2.19	0.56
5:BD:28:GLN:HB3	9:BD:102:BCL:H12	1.88	0.56
3:BM:91:PHE:O	3:BM:180:PHE:HB2	2.04	0.56
14:BW:103:CRT:H35	5:BY:31:LEU:CD1	2.36	0.56
5:B3:8:LEU:HD22	5:B3:11:ILE:HD11	1.86	0.56
5:B9:46:TRP:CZ2	9:B9:102:BCL:H2C	2.40	0.56
6:BB:23:GLN:O	5:B9:4:MET:HE1	2.04	0.56
5:BA:10:LYS:HD2	14:BA:102:CRT:H1M1	1.88	0.56
6:BB:17:PHE:CD1	14:BB:102:CRT:H6	2.40	0.56
6:BB:20:ILE:HD13	6:BB:20:ILE:O	2.04	0.56
6:BB:36:HIS:CB	9:BB:101:BCL:H192	2.36	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:264:PRO:HG2	1:BC:265:LYS:H	1.68	0.56
5:BD:31:LEU:HB3	9:BE:101:BCL:CED	2.35	0.56
9:BE:101:BCL:NB	9:BF:102:BCL:CMB	2.67	0.56
3:BM:76:LEU:HD23	5:BU:37:MET:CE	2.35	0.56
5:BO:43:ASP:HB2	5:BQ:47:LEU:CB	2.34	0.56
9:BY:102:BCL:C1D	9:BZ:101:BCL:CMD	2.79	0.56
2:AL:144:ARG:CB	2:AL:145:PRO:HD3	2.35	0.56
2:AL:52:TRP:HA	2:AL:52:TRP:HE3	1.69	0.56
5:AD:9:TYR:CE1	6:AE:11:ASP:HB3	2.40	0.56
1:AC:68:THR:O	1:AC:86:SER:HB2	2.06	0.56
3:AM:168:MET:HG2	3:AM:289:THR:HG22	1.86	0.56
3:AM:316:PRO:HG2	3:AM:317:TYR:CD1	2.40	0.56
5:BK:54:SER:CB	5:BK:56:GLN:HE22	2.18	0.56
3:BM:13:VAL:HG12	4:BH:144:ILE:HA	1.86	0.56
5:A7:29:ILE:HD12	9:A7:103:BCL:H42	1.88	0.56
6:A8:26:TYR:HA	6:A8:29:PHE:HB3	1.87	0.56
6:AB:21:PHE:HD1	14:AB:102:CRT:H14	1.70	0.56
1:AC:263:THR:HG22	3:AM:311:VAL:HB	1.86	0.56
1:AC:304:ARG:HG3	1:AC:304:ARG:NH1	2.21	0.56
5:AQ:29:ILE:HG23	5:AQ:30:VAL:N	2.20	0.56
5:AU:45:ASN:O	5:AU:49:ASP:HB3	2.06	0.56
5:B5:12:TRP:CZ3	5:B5:17:PRO:HA	2.40	0.56
9:B7:103:BCL:C2D	9:B8:101:BCL:C2D	2.83	0.56
5:B9:12:TRP:HA	5:B9:12:TRP:HE3	1.70	0.56
5:BA:47:LEU:HB3	5:B9:43:ASP:CB	2.36	0.56
5:BI:8:LEU:HB3	6:BJ:18:HIS:NE2	2.20	0.56
2:BL:270:GLU:O	2:BL:271:TRP:C	2.42	0.56
2:BL:88:PRO:O	2:BL:91:GLU:N	2.38	0.56
6:BN:29:PHE:CZ	9:BN:101:BCL:H2	2.40	0.56
6:BT:45:TRP:O	5:BU:52:PRO:HD2	2.05	0.56
9:BV:101:BCL:CMA	9:BW:102:BCL:HHB	2.36	0.56
9:BV:101:BCL:OB	9:BV:101:BCL:HHC	2.06	0.56
5:BY:55:TYR:HD1	5:BY:56:GLN:N	1.96	0.56
5:BU:44:LEU:HD22	6:BV:43:ARG:HD3	1.88	0.56
5:AD:18:ARG:O	5:AD:22:VAL:HG12	2.05	0.56
4:BH:102:PRO:CG	4:BH:106:PRO:HB3	2.35	0.56
3:AM:2:PRO:HB3	4:AH:201:ARG:NH1	2.19	0.56
5:BK:53:VAL:O	5:BK:55:TYR:N	2.39	0.56
6:A8:10:THR:HG22	6:A8:11:ASP:N	2.20	0.56
6:A2:45:TRP:NE1	9:A2:101:BCL:HHC	2.21	0.56
5:A3:31:LEU:HD21	9:A3:104:BCL:CMA	2.35	0.56
6:A6:40:TRP:HA	6:A6:40:TRP:CE3	2.39	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AA:47:LEU:HB3	5:A9:43:ASP:CB	2.34	0.56
5:AF:9:TYR:HA	6:AG:18:HIS:ND1	2.20	0.56
9:AG:101:BCL:CHB	9:AI:102:BCL:HMB3	2.35	0.56
2:AL:264:TRP:CH2	2:AL:271:TRP:HA	2.41	0.56
2:AL:278:LEU:O	2:AL:280:LEU:N	2.38	0.56
2:AL:28:GLY:H	4:AH:46:THR:HG21	1.70	0.56
3:AM:126:ILE:HD12	3:AM:157:TYR:CE2	2.41	0.56
3:AM:197:TYR:CE1	9:AM:402:BCL:CMC	2.88	0.56
3:AM:83:VAL:O	3:AM:87:LEU:HD23	2.06	0.56
6:AN:45:TRP:HD1	6:AN:46:LEU:HG	1.69	0.56
6:AP:45:TRP:O	6:AP:46:LEU:CG	2.54	0.56
5:AS:46:TRP:CD1	5:AS:47:LEU:HD13	2.40	0.56
9:AV:102:BCL:C19	9:AW:101:BCL:HMC3	2.35	0.56
6:AX:27:ALA:O	6:AX:31:LEU:HG	2.05	0.56
5:BY:39:VAL:HG22	5:B1:47:LEU:HD11	1.87	0.56
5:B9:32:GLY:CA	9:B9:102:BCL:O1A	2.51	0.56
1:BC:176:SER:OG	5:BU:48:ASP:HB3	2.05	0.56
2:BL:88:PRO:HB2	2:BL:91:GLU:HB2	1.86	0.56
5:BQ:38:ILE:O	5:BQ:42:THR:HG22	2.05	0.56
14:BO:103:CRT:C14	6:BR:21:PHE:HB2	2.35	0.56
6:BR:42:TYR:CD2	6:BR:43:ARG:HG3	2.40	0.56
9:BT:101:BCL:OBB	9:BT:101:BCL:HHC	2.05	0.56
6:BR:46:LEU:HB3	6:BT:42:TYR:OH	2.06	0.56
5:BU:30:VAL:HG13	5:BU:31:LEU:H	1.70	0.56
6:BV:21:PHE:CE1	14:BV:102:CRT:H14	2.36	0.56
9:BW:102:BCL:ND	9:BX:101:BCL:HMD1	2.20	0.56
5:B1:44:LEU:H	5:B1:44:LEU:HD23	1.71	0.56
1:AC:326:ASP:O	1:AC:327:TYR:CD1	2.59	0.56
6:AX:13:GLU:O	6:AX:16:GLU:HB3	2.05	0.56
5:BS:44:LEU:HD23	5:BS:44:LEU:H	1.69	0.56
6:AZ:44:PRO:O	5:A1:55:TYR:CZ	2.59	0.56
6:A4:34:ILE:O	6:A4:34:ILE:HD13	2.05	0.56
5:A7:36:HIS:CG	14:A7:102:CRT:H393	2.40	0.56
5:A7:46:TRP:CZ3	9:A7:103:BCL:HBC3	2.40	0.56
5:AA:44:LEU:HD11	5:AA:46:TRP:HE3	1.70	0.56
7:AC:503:HEM:HBB1	2:AL:174:LEU:HG	1.87	0.56
5:AI:44:LEU:HA	5:AK:56:GLN:HB2	1.87	0.56
2:AL:125:HIS:NE2	3:AM:5:GLN:HG3	2.20	0.56
2:AL:233:ILE:HG12	2:AL:237:ALA:HB1	1.88	0.56
3:AM:280:ALA:HA	9:AM:402:BCL:O1D	2.05	0.56
5:AQ:17:PRO:O	5:AQ:21:LEU:HG	2.05	0.56
5:AS:13:LEU:HD12	14:AS:104:CRT:H1M2	1.86	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AU:26:ALA:HA	5:AU:29:ILE:HG22	1.88	0.56
9:B1:102:BCL:ND	9:B2:101:BCL:HMD2	2.19	0.56
6:B4:34:ILE:HD13	6:B4:34:ILE:O	2.05	0.56
5:B7:46:TRP:NE1	5:B7:47:LEU:HD21	2.21	0.56
5:BA:45:ASN:OD1	5:BA:47:LEU:HB2	2.06	0.56
6:BB:33:VAL:O	6:BB:37:LEU:HD23	2.05	0.56
1:BC:291:LEU:CD2	1:BC:292:PRO:HD2	2.36	0.56
2:BL:184:LEU:CD2	2:BL:252:TRP:HE1	2.18	0.56
3:BM:63:PHE:HB3	3:BM:125:SER:CB	2.26	0.56
3:BM:83:VAL:O	3:BM:86:PHE:HB3	2.06	0.56
5:BS:28:GLN:HB2	9:BS:102:BCL:H43	1.87	0.56
5:BU:35:ILE:HA	5:BU:38:ILE:HG22	1.86	0.56
4:AH:108:LEU:C	4:AH:110:GLY:H	2.08	0.56
6:A6:10:THR:HG22	6:A6:11:ASP:N	2.21	0.56
5:A9:13:LEU:O	6:A0:7:THR:HB	2.06	0.56
1:AC:190:VAL:O	1:AC:192:TYR:N	2.38	0.56
1:AC:200:LEU:HG	1:AC:204:LEU:HD12	1.86	0.56
1:AC:94:MET:SD	7:AC:501:HEM:NA	2.78	0.56
9:AK:102:BCL:HMD1	6:AN:36:HIS:CD2	2.40	0.56
3:AM:233:ARG:O	3:AM:235:ILE:N	2.39	0.56
3:AM:187:ALA:HA	9:AM:402:BCL:HBC1	1.88	0.56
5:AQ:20:VAL:O	5:AQ:24:ILE:HD13	2.06	0.56
5:AS:13:LEU:CB	14:AS:104:CRT:H32A	2.35	0.56
9:AX:101:BCL:C4B	9:AY:102:BCL:HBB3	2.35	0.56
6:B0:36:HIS:HD1	9:B0:102:BCL:H141	1.70	0.56
1:BC:251:HIS:ND1	1:BC:256:PHE:HA	2.21	0.56
4:BH:5:ILE:CG1	5:BF:40:LEU:HD21	2.36	0.56
6:BG:29:PHE:O	6:BG:33:VAL:HB	2.06	0.56
5:BK:12:TRP:CD1	6:BN:14:ALA:O	2.59	0.56
5:BO:46:TRP:CD1	5:BO:47:LEU:HD13	2.39	0.56
9:BO:102:BCL:OBD	6:BP:32:VAL:HG13	2.05	0.56
5:BQ:43:ASP:N	5:BS:47:LEU:HB3	2.21	0.56
9:BU:102:BCL:HMB1	9:BU:102:BCL:CBB	2.36	0.56
6:BV:30:GLY:O	6:BV:33:VAL:HG12	2.06	0.56
5:BW:10:LYS:HD2	6:BZ:20:ILE:HD12	1.87	0.56
4:BH:232:THR:O	4:BH:235:GLU:HG2	2.06	0.56
5:BD:9:TYR:CB	6:BE:15:LYS:HA	2.34	0.56
5:A3:12:TRP:HE1	6:A4:18:HIS:HA	1.71	0.56
3:AM:27:ASN:HD21	5:AO:19:ARG:HH11	1.52	0.56
4:AH:105:ASP:OD1	4:AH:107:MET:HB3	2.05	0.56
6:B2:24:SER:O	6:B2:27:ALA:HB3	2.06	0.56
6:A0:24:SER:CB	14:A0:101:CRT:H183	2.35	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:A1:4:MET:SD	6:A4:24:SER:HA	2.45	0.56
1:AC:199:PRO:O	1:AC:203:PHE:HB2	2.06	0.56
1:AC:283:TYR:N	1:AC:283:TYR:CD1	2.74	0.56
1:AC:212:ILE:HD11	7:AC:503:HEM:HAA1	1.88	0.56
5:AD:52:PRO:C	5:AD:54:SER:H	2.09	0.56
5:AI:39:VAL:HG21	9:AI:102:BCL:HBC1	1.88	0.56
2:AL:131:SER:HA	2:AL:134:ILE:HD12	1.86	0.56
2:AL:268:TRP:O	2:AL:269:PRO:C	2.44	0.56
3:AM:165:PRO:HB3	3:AM:174:ALA:HB2	1.87	0.56
5:AU:20:VAL:CG1	9:AW:101:BCL:H202	2.35	0.56
9:B3:102:BCL:CHD	9:B4:101:BCL:HMD2	2.35	0.56
5:B7:47:LEU:CD2	5:B7:47:LEU:H	2.18	0.56
1:BC:226:LEU:HD12	3:BM:192:ARG:HB2	1.87	0.56
1:BC:274:ARG:HA	1:BC:277:ARG:HG2	1.87	0.56
6:BE:29:PHE:CE1	9:BE:101:BCL:C2	2.89	0.56
14:BA:102:CRT:H11	6:BE:17:PHE:HE1	1.71	0.56
5:BF:30:VAL:HG13	5:BF:31:LEU:N	2.20	0.56
9:BI:102:BCL:HBB3	9:BI:102:BCL:HMB1	1.88	0.56
9:BI:102:BCL:ND	9:BJ:101:BCL:CMD	2.69	0.56
6:BJ:40:TRP:HZ3	6:BJ:46:LEU:HG	1.71	0.56
2:BL:194:LEU:C	2:BL:194:LEU:HD23	2.26	0.56
2:BL:197:SER:HB3	3:BM:273:ALA:CB	2.32	0.56
2:BL:195:ALA:O	2:BL:198:MET:HB2	2.06	0.56
2:BL:170:GLY:HA3	9:BL:301:BCL:HBC3	1.86	0.56
9:BL:301:BCL:HHD	9:BL:301:BCL:HBC3	1.87	0.56
2:BL:106:PHE:HD1	10:BL:302:BPH:H1C1	1.70	0.56
2:BL:71:TRP:N	2:BL:71:TRP:CE3	2.74	0.56
3:BM:131:VAL:C	3:BM:133:THR:N	2.58	0.56
3:BM:208:PHE:C	3:BM:210:TYR:N	2.59	0.56
3:BM:197:TYR:CE1	9:BM:402:BCL:CMC	2.88	0.56
13:BM:405:MQ8:H2M1	13:BM:405:MQ8:C12	2.36	0.56
6:BN:45:TRP:O	6:BN:46:LEU:HB2	2.05	0.56
5:BO:49:ASP:CG	5:BO:50:ASN:H	2.09	0.56
5:BQ:50:ASN:HD22	5:BS:56:GLN:CA	2.12	0.56
3:BM:81:TRP:O	5:BU:41:SER:HB3	2.05	0.56
5:B3:55:TYR:O	5:B3:59:GLY:HA3	2.06	0.56
4:BH:135:PRO:HB3	4:BH:171:TRP:CE2	2.40	0.56
1:AC:164:TYR:HB2	1:AC:309:THR:HA	1.88	0.56
1:BC:94:MET:SD	7:BC:501:HEM:NC	2.79	0.56
5:BY:16:ASP:HB2	5:BY:19:ARG:NH2	2.21	0.56
1:BC:316:LYS:O	1:BC:317:PRO:C	2.43	0.56
5:A1:12:TRP:CD1	6:A2:18:HIS:CA	2.89	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:A3:51:ILE:HG22	5:A3:54:SER:CB	2.36	0.56
9:A5:102:BCL:CBB	9:A5:102:BCL:HMB1	2.36	0.56
9:A5:102:BCL:CHD	9:A6:101:BCL:HMD2	2.36	0.56
6:A8:20:ILE:HG23	6:A8:21:PHE:N	2.20	0.56
4:AH:235:GLU:HA	4:AH:238:LYS:HG2	1.87	0.56
2:AL:10:TYR:O	2:AL:12:VAL:N	2.37	0.56
3:AM:261:THR:O	3:AM:263:GLU:N	2.39	0.56
3:AM:265:ILE:HG22	3:AM:266:HIS:N	2.10	0.56
3:AM:265:ILE:O	3:AM:267:ARG:N	2.38	0.56
5:AQ:30:VAL:HG13	5:AQ:31:LEU:N	2.21	0.56
5:AS:34:LEU:HA	15:AS:101:PEF:H442	1.88	0.56
6:AV:27:ALA:C	6:AV:31:LEU:HG	2.24	0.56
5:BD:15:LEU:HB3	5:BD:20:VAL:CG2	2.31	0.56
4:BH:35:LYS:O	4:BH:36:ARG:C	2.43	0.56
4:BH:55:VAL:HG11	5:BD:19:ARG:HD3	1.87	0.56
5:BK:8:LEU:O	5:BK:11:ILE:HG13	2.06	0.56
5:BK:18:ARG:HH11	5:BK:18:ARG:HG2	1.70	0.56
3:BM:208:PHE:C	3:BM:210:TYR:H	2.08	0.56
9:BQ:104:BCL:H2C	6:BR:45:TRP:CE3	2.41	0.56
6:BR:34:ILE:HD12	6:BR:35:ALA:N	2.20	0.56
5:BU:2:PHE:HA	5:BU:5:ASN:HB2	1.88	0.56
5:A7:19:ARG:O	5:A7:23:SER:HB2	2.06	0.56
1:AC:43:TYR:HE1	2:AL:153:HIS:HE2	1.54	0.56
1:AC:148:THR:HA	1:AC:322:GLN:CB	2.36	0.56
1:BC:153:TYR:CE1	1:BC:157:ARG:HA	2.40	0.56
6:AE:13:GLU:CD	6:AE:13:GLU:H	2.09	0.56
5:BU:42:THR:HB	5:BW:48:ASP:CB	2.35	0.56
1:BC:112:VAL:HG12	1:BC:113:PRO:HD2	1.88	0.56
9:AA:101:BCL:CMB	9:A0:102:BCL:C1B	2.81	0.56
6:A0:21:PHE:HB2	14:A0:101:CRT:C15	2.35	0.56
5:A7:49:ASP:OD2	6:A8:43:ARG:NH2	2.38	0.56
6:AB:22:MET:HG3	6:AB:26:TYR:HE1	1.71	0.56
1:AC:97:VAL:HG21	1:AC:131:PHE:HZ	1.70	0.56
5:AD:7:ASN:H	5:AD:7:ASN:ND2	2.04	0.56
6:AG:21:PHE:HB2	14:AG:102:CRT:H11	1.88	0.56
9:AJ:101:BCL:CMC	9:AK:102:BCL:HBB1	2.35	0.56
1:AC:253:THR:HG22	2:AL:171:TYR:CD2	2.41	0.56
2:AL:221:GLU:C	2:AL:223:THR:H	2.09	0.56
2:AL:188:PHE:HE2	2:AL:248:SER:HB3	1.69	0.56
3:AM:132:ARG:O	3:AM:132:ARG:HD3	2.05	0.56
3:AM:66:VAL:HG11	3:AM:121:PHE:CD2	2.31	0.56
6:AT:24:SER:O	6:AT:27:ALA:HB3	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AW:102:CRT:H83	6:AZ:20:ILE:HD13	1.88	0.56
9:AY:102:BCL:C1D	9:AZ:101:BCL:CMD	2.82	0.56
5:AW:8:LEU:HD21	6:AZ:24:SER:OG	2.06	0.56
5:BD:27:PHE:O	5:BD:30:VAL:HG12	2.06	0.56
5:BI:35:ILE:HA	5:BI:38:ILE:CG2	2.32	0.56
2:BL:178:TYR:CD1	3:BM:183:LEU:HD13	2.41	0.56
1:BC:24:GLU:O	2:BL:263:PHE:HA	2.06	0.56
1:BC:20:LEU:HG	2:BL:271:TRP:CE2	2.40	0.56
2:BL:280:LEU:HD21	5:BY:37:MET:HE2	1.88	0.56
9:BK:102:BCL:CMD	6:BN:36:HIS:HD2	2.18	0.56
5:BO:8:LEU:O	5:BO:11:ILE:HG13	2.06	0.56
5:BO:46:TRP:CD1	5:BO:47:LEU:HD22	2.41	0.56
5:BO:36:HIS:NE2	9:BP:101:BCL:HMD1	2.20	0.56
14:BP:102:CRT:H2M3	5:BQ:36:HIS:HB3	1.86	0.56
6:BT:29:PHE:CD1	6:BT:29:PHE:N	2.72	0.56
5:BW:18:ARG:O	5:BW:22:VAL:HG22	2.05	0.56
5:BW:18:ARG:O	5:BW:22:VAL:HG23	2.04	0.56
5:BW:49:ASP:OD1	5:BW:50:ASN:N	2.24	0.56
3:AM:168:MET:HG2	3:AM:289:THR:CG2	2.36	0.56
6:B6:10:THR:HG22	6:B6:11:ASP:N	2.21	0.56
6:A0:7:THR:HG23	6:A0:8:GLY:H	1.71	0.55
6:A8:17:PHE:O	6:A8:20:ILE:HG22	2.05	0.55
9:A9:102:BCL:CBB	9:A9:102:BCL:HMB1	2.36	0.55
5:AA:11:ILE:CA	14:AA:102:CRT:H82	2.36	0.55
1:AC:283:TYR:N	1:AC:283:TYR:HD1	2.03	0.55
5:AF:27:PHE:HA	5:AF:30:VAL:CG1	2.34	0.55
4:AH:69:LEU:HB2	4:AH:74:GLY:O	2.05	0.55
2:AL:255:VAL:HG12	2:AL:256:CYS:N	2.21	0.55
9:AR:101:BCL:CBB	9:AR:101:BCL:HMB1	2.36	0.55
5:AU:14:ILE:HG13	14:AX:102:CRT:H5	1.87	0.55
14:AW:102:CRT:H35	5:AY:31:LEU:CD1	2.35	0.55
1:BC:259:TRP:C	1:BC:261:GLN:N	2.59	0.55
1:BC:283:TYR:CD1	1:BC:283:TYR:N	2.73	0.55
3:BM:132:ARG:HH11	3:BM:132:ARG:HG2	1.71	0.55
14:BU:103:CRT:H2M3	5:BY:36:HIS:CB	2.36	0.55
5:B9:16:ASP:O	5:B9:20:VAL:HG22	2.06	0.55
5:BA:2:PHE:HA	5:BA:5:ASN:ND2	2.20	0.55
1:AC:71:LYS:N	1:AC:71:LYS:HD2	2.21	0.55
5:A3:28:GLN:CG	9:A3:103:BCL:H12	2.36	0.55
9:A6:101:BCL:NB	9:A7:103:BCL:HMB3	2.20	0.55
1:AC:212:ILE:HD13	1:AC:212:ILE:N	2.21	0.55
2:AL:139:VAL:HA	2:AL:143:VAL:HB	1.87	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:196:LEU:C	2:AL:198:MET:H	2.10	0.55
3:AM:133:THR:O	3:AM:137:ALA:N	2.39	0.55
9:AO:102:BCL:HHC	9:AO:102:BCL:OBB	2.07	0.55
6:AR:45:TRP:CE3	9:AR:101:BCL:HBC2	2.41	0.55
5:AS:34:LEU:CA	15:AS:101:PEF:H453	2.31	0.55
6:AT:22:MET:O	6:AT:26:TYR:HD1	1.89	0.55
2:BL:210:GLN:HB2	2:BL:213:GLU:HG3	1.86	0.55
2:BL:78:PRO:HB3	2:BL:92:GLY:HA3	1.89	0.55
3:BM:243:THR:O	3:BM:247:ARG:HG3	2.06	0.55
3:BM:284:ILE:HG13	9:BM:402:BCL:OBD	2.06	0.55
5:BO:37:MET:O	5:BO:41:SER:HB2	2.07	0.55
6:BX:18:HIS:CE1	6:BX:22:MET:HE1	2.41	0.55
5:BW:5:ASN:OD1	6:BX:22:MET:HE3	2.06	0.55
6:B6:40:TRP:HZ3	6:B6:44:PRO:CA	2.17	0.55
5:B9:16:ASP:OD2	5:B9:17:PRO:HD2	2.05	0.55
5:BI:22:VAL:HA	5:BI:25:VAL:CG2	2.36	0.55
9:AZ:101:BCL:C4A	9:A1:102:BCL:HMB3	2.35	0.55
6:A6:44:PRO:O	5:A7:52:PRO:HD2	2.05	0.55
5:A7:29:ILE:CA	9:A7:103:BCL:H11	2.30	0.55
5:A7:29:ILE:CG2	5:A7:30:VAL:N	2.69	0.55
5:AA:45:ASN:O	5:AA:49:ASP:HB3	2.06	0.55
6:AB:17:PHE:O	6:AB:20:ILE:HG22	2.06	0.55
6:AB:45:TRP:O	6:AB:46:LEU:CB	2.53	0.55
14:AB:102:CRT:H2M2	5:AD:37:MET:CE	2.35	0.55
6:AE:21:PHE:C	6:AE:21:PHE:CD1	2.80	0.55
6:AB:46:LEU:HD13	6:AE:42:TYR:CZ	2.41	0.55
5:AF:20:VAL:HB	9:AI:102:BCL:C20	2.37	0.55
4:AH:55:VAL:HG11	5:AD:19:ARG:HD3	1.87	0.55
4:AH:55:VAL:CG1	4:AH:56:VAL:H	2.09	0.55
4:AH:66:THR:HA	4:AH:77:VAL:HG12	1.89	0.55
5:AK:36:HIS:CE1	9:AK:102:BCL:NA	2.74	0.55
2:AL:160:LEU:HA	2:AL:163:LEU:HD13	1.88	0.55
3:AM:193:TYR:O	3:AM:194:GLY:C	2.44	0.55
3:AM:268:TRP:HD1	3:AM:268:TRP:H	1.53	0.55
5:AU:49:ASP:CG	5:AU:50:ASN:N	2.59	0.55
5:AW:21:LEU:HD13	14:AX:102:CRT:H131	1.87	0.55
6:B0:33:VAL:CG1	6:B0:37:LEU:CD1	2.77	0.55
5:B5:10:LYS:CB	14:B5:103:CRT:H5	2.30	0.55
5:B5:45:ASN:O	5:B5:49:ASP:HB3	2.06	0.55
9:B9:102:BCL:HHC	9:B9:102:BCL:OBB	2.05	0.55
1:BC:141:TRP:CE3	1:BC:275:HIS:HB2	2.40	0.55
1:BC:183:GLN:O	1:BC:195:LEU:O	2.25	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:200:LEU:HD11	1:BC:238:ASN:ND2	2.21	0.55
9:BI:102:BCL:HMD2	9:BJ:101:BCL:CHD	2.36	0.55
5:BI:26:ALA:O	5:BI:29:ILE:N	2.39	0.55
3:BM:176:PRO:HD2	3:BM:185:TRP:HB2	1.87	0.55
5:BO:9:TYR:CD2	6:BP:15:LYS:HD2	2.41	0.55
9:BQ:104:BCL:HAC2	6:BR:45:TRP:CZ3	2.41	0.55
4:AH:159:LEU:CB	4:AH:212:ASP:HA	2.36	0.55
6:AZ:10:THR:CG2	6:AZ:11:ASP:H	2.13	0.55
1:BC:242:SER:O	1:BC:313:ALA:CA	2.53	0.55
6:A0:38:LEU:C	6:A0:38:LEU:HD23	2.27	0.55
4:BH:225:LEU:HD12	4:BH:225:LEU:O	2.05	0.55
1:AC:35:TYR:CD2	3:AM:308:PRO:HD2	2.41	0.55
3:BM:271:TRP:CD2	4:BH:26:LEU:HD21	2.41	0.55
5:A3:32:GLY:HA2	9:A3:104:BCL:O1D	2.05	0.55
6:A6:17:PHE:O	6:A6:20:ILE:HG22	2.06	0.55
5:A7:50:ASN:CG	5:A7:51:ILE:N	2.60	0.55
9:AE:101:BCL:C4B	9:AF:102:BCL:HBB3	2.37	0.55
5:AF:45:ASN:HB3	5:AF:49:ASP:HB3	1.88	0.55
4:AH:130:LEU:HD13	4:AH:174:ARG:HH12	1.72	0.55
5:AI:9:TYR:CD1	5:AI:9:TYR:C	2.80	0.55
2:AL:248:SER:O	2:AL:249:ALA:C	2.45	0.55
9:AU:102:BCL:CHD	9:AU:102:BCL:CBC	2.84	0.55
9:B4:101:BCL:CBB	9:B4:101:BCL:HMB1	2.37	0.55
6:B6:17:PHE:O	6:B6:20:ILE:HG22	2.07	0.55
5:B9:43:ASP:OD1	5:B9:44:LEU:HD12	2.06	0.55
14:BA:102:CRT:H9	6:BE:17:PHE:HD1	1.70	0.55
1:BC:327:TYR:HB2	1:BC:330:LEU:HD12	1.87	0.55
9:BJ:101:BCL:HMB1	9:BJ:101:BCL:HBB3	1.87	0.55
3:BM:155:PHE:O	3:BM:159:VAL:HG23	2.06	0.55
3:BM:229:PHE:O	3:BM:244:ALA:HB2	2.06	0.55
6:BX:36:HIS:HE1	9:BX:101:BCL:C1B	2.19	0.55
14:BU:103:CRT:H2M2	5:BY:37:MET:HG2	1.88	0.55
4:BH:22:PHE:C	4:BH:22:PHE:CD1	2.79	0.55
5:A1:12:TRP:CD2	6:A2:17:PHE:CE2	2.95	0.55
9:A7:103:BCL:CMD	6:A8:36:HIS:CD2	2.90	0.55
9:A9:102:BCL:OBB	9:A9:102:BCL:HHC	2.06	0.55
5:AA:47:LEU:CD1	5:A9:43:ASP:HB2	2.31	0.55
5:AA:9:TYR:CZ	5:AA:10:LYS:HD3	2.42	0.55
9:AB:101:BCL:HMB3	9:AD:102:BCL:CHB	2.37	0.55
4:AH:35:LYS:HZ2	4:AH:59:PRO:HG2	1.72	0.55
2:AL:218:SER:C	2:AL:220:HIS:H	2.09	0.55
5:AQ:43:ASP:OD1	5:AQ:44:LEU:HD23	2.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AS:104:CRT:H14	6:AV:21:PHE:CD1	2.41	0.55
5:AW:12:TRP:CA	5:AW:12:TRP:CE3	2.89	0.55
9:AY:102:BCL:CMD	6:AZ:36:HIS:HD2	2.20	0.55
5:B7:37:MET:H	14:B7:102:CRT:C2M	2.14	0.55
6:B8:20:ILE:HG23	6:B8:21:PHE:N	2.21	0.55
5:BD:8:LEU:C	5:BD:10:LYS:N	2.56	0.55
5:BF:10:LYS:HB3	14:BF:103:CRT:C1M	2.36	0.55
5:BK:45:ASN:CA	5:BK:49:ASP:HB3	2.36	0.55
6:BT:29:PHE:HD1	6:BT:29:PHE:N	2.05	0.55
9:BU:102:BCL:HHD	9:BU:102:BCL:HBC2	1.88	0.55
9:BU:102:BCL:HMD2	9:BV:101:BCL:CHD	2.35	0.55
5:BU:12:TRP:NE1	6:BV:18:HIS:CA	2.53	0.55
5:BW:32:GLY:N	9:BX:101:BCL:HED2	2.21	0.55
3:BM:104:LEU:N	3:BM:104:LEU:HD22	2.22	0.55
6:B8:46:LEU:HB3	6:B0:42:TYR:OH	2.06	0.55
1:BC:153:TYR:CB	1:BC:323:MET:HE3	2.31	0.55
6:BN:20:ILE:H	6:BN:20:ILE:CD1	2.18	0.55
6:BX:10:THR:HG22	6:BX:11:ASP:N	2.22	0.55
6:BX:30:GLY:HA2	6:BX:33:VAL:HG12	1.88	0.55
6:A2:40:TRP:CE3	6:A2:44:PRO:HA	2.42	0.55
9:A3:103:BCL:HED1	6:A4:32:VAL:HA	1.87	0.55
5:A5:51:ILE:HB	5:A5:52:PRO:CA	2.31	0.55
5:AA:26:ALA:O	5:AA:29:ILE:HG22	2.06	0.55
1:AC:97:VAL:CG1	7:AC:501:HEM:HBC2	2.37	0.55
3:AM:132:ARG:HG2	3:AM:132:ARG:HH11	1.72	0.55
5:AQ:45:ASN:O	5:AQ:47:LEU:N	2.39	0.55
5:AO:10:LYS:HB2	14:AR:102:CRT:H5	1.87	0.55
9:AV:102:BCL:HMB1	9:AV:102:BCL:CBB	2.36	0.55
6:AV:9:LEU:HB3	6:AV:13:GLU:OE1	2.06	0.55
5:B7:36:HIS:CB	14:B7:102:CRT:H391	2.32	0.55
5:B7:33:LEU:O	14:B7:102:CRT:C2M	2.48	0.55
9:BA:101:BCL:HBC2	9:BB:101:BCL:HHD	1.88	0.55
9:BA:101:BCL:HMB1	9:BA:101:BCL:CBB	2.37	0.55
6:BB:22:MET:HG3	6:BB:26:TYR:HE1	1.68	0.55
1:BC:207:ALA:CB	1:BC:277:ARG:HE	2.19	0.55
4:BH:35:LYS:HG2	4:BH:39:TYR:CE2	2.42	0.55
6:BG:25:MET:HE3	9:BI:102:BCL:H203	1.87	0.55
2:BL:146:LEU:C	2:BL:148:MET:H	2.10	0.55
2:BL:233:ILE:HG12	2:BL:237:ALA:CB	2.36	0.55
2:BL:87:ALA:O	2:BL:93:GLY:HA3	2.07	0.55
3:BM:281:GLY:O	3:BM:285:LEU:HB2	2.06	0.55
5:BW:35:ILE:HA	5:BW:38:ILE:CG2	2.37	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BY:51:ILE:HA	5:BY:52:PRO:C	2.27	0.55
3:BM:102:TYR:CE2	3:BM:108:PRO:HD3	2.41	0.55
4:AH:108:LEU:C	4:AH:110:GLY:N	2.59	0.55
6:B0:38:LEU:C	6:B0:38:LEU:HD23	2.26	0.55
5:A9:8:LEU:O	6:A0:18:HIS:CE1	2.60	0.55
5:A1:10:LYS:CB	14:A1:103:CRT:H5	2.36	0.55
5:A5:26:ALA:O	5:A5:29:ILE:HG22	2.07	0.55
1:AC:80:GLN:H	1:AC:128:ARG:NH2	2.04	0.55
1:AC:254:ARG:HD3	1:AC:255:ALA:N	2.21	0.55
5:AF:33:LEU:N	5:AF:33:LEU:HD12	2.22	0.55
6:AG:40:TRP:HH2	6:AG:46:LEU:CD1	2.19	0.55
2:AL:237:ALA:O	2:AL:240:ARG:HG3	2.06	0.55
3:AM:242:GLY:O	3:AM:246:GLU:HB2	2.07	0.55
6:AN:45:TRP:CZ3	9:AN:101:BCL:HAC2	2.42	0.55
6:AR:34:ILE:HD13	6:AR:34:ILE:C	2.27	0.55
5:AS:34:LEU:HB2	15:AS:101:PEF:H431	1.87	0.55
5:AU:27:PHE:CD2	5:AW:29:ILE:HD11	2.42	0.55
5:AY:2:PHE:O	5:AY:5:ASN:HB2	2.06	0.55
1:BC:121:ILE:HG22	1:BC:123:THR:HG23	1.87	0.55
9:BF:102:BCL:H143	14:BG:102:CRT:H132	1.88	0.55
9:BI:102:BCL:OBB	9:BI:102:BCL:HHC	2.06	0.55
2:BL:87:ALA:H	2:BL:96:GLN:NE2	2.00	0.55
3:BM:248:ALA:O	3:BM:251:PHE:N	2.40	0.55
5:BO:43:ASP:CB	5:BQ:47:LEU:HB3	2.34	0.55
5:BU:17:PRO:HG2	5:BU:18:ARG:HD2	1.89	0.55
6:BZ:10:THR:HG22	6:BZ:11:ASP:N	2.15	0.55
6:AZ:34:ILE:C	6:AZ:34:ILE:HD13	2.26	0.55
5:A9:51:ILE:HB	5:A9:52:PRO:HA	1.89	0.55
5:AA:50:ASN:OD1	5:AA:51:ILE:N	2.40	0.55
5:AF:10:LYS:HB3	14:AJ:102:CRT:O1	2.07	0.55
5:AK:47:LEU:N	5:AK:47:LEU:HD22	2.22	0.55
3:AM:107:PRO:CG	3:AM:113:GLY:HA2	2.36	0.55
3:AM:104:LEU:CD1	3:AM:169:GLY:HA2	2.29	0.55
3:AM:248:ALA:O	3:AM:250:LEU:N	2.39	0.55
3:AM:260:VAL:CB	3:AM:264:SER:OG	2.54	0.55
3:AM:194:GLY:N	3:AM:293:ASN:HA	2.21	0.55
14:AS:104:CRT:C10	6:AV:20:ILE:HD11	2.33	0.55
5:AU:25:VAL:HG13	9:AU:102:BCL:C5	2.34	0.55
9:AW:101:BCL:HED1	6:AX:31:LEU:O	2.07	0.55
5:AY:35:ILE:HA	5:AY:38:ILE:CG1	2.37	0.55
6:B0:40:TRP:HZ3	6:B0:45:TRP:H	1.55	0.55
9:B5:102:BCL:H71	6:B6:28:TRP:CZ3	2.41	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:B5:103:CRT:H2M3	5:B9:36:HIS:HB2	1.89	0.55
1:BC:281:GLN:OE1	1:BC:285:TRP:HD1	1.88	0.55
9:BD:102:BCL:HMD2	9:BE:101:BCL:CHD	2.36	0.55
4:BH:29:TYR:C	4:BH:29:TYR:CD1	2.79	0.55
2:BL:192:ASN:HA	2:BL:245:LEU:CD1	2.37	0.55
2:BL:132:PHE:HD2	2:BL:247:LEU:HD22	1.71	0.55
2:BL:57:GLY:HA3	2:BL:66:GLN:CG	2.36	0.55
6:BT:32:VAL:O	6:BT:35:ALA:HB3	2.07	0.55
6:BX:45:TRP:O	6:BX:46:LEU:CG	2.53	0.55
2:AL:22:LEU:HB2	5:A7:19:ARG:CG	2.36	0.55
6:BT:9:LEU:HB3	6:BT:13:GLU:CG	2.37	0.55
1:BC:151:THR:HG21	1:BC:323:MET:HB2	1.87	0.55
6:AV:34:ILE:HG22	6:AV:38:LEU:HD21	1.88	0.55
6:B2:40:TRP:CZ3	6:B2:44:PRO:HA	2.42	0.55
2:BL:28:GLY:HA2	4:BH:46:THR:HB	1.89	0.55
6:A2:24:SER:O	6:A2:27:ALA:HB3	2.06	0.55
9:A3:103:BCL:C2A	9:A3:103:BCL:O1D	2.52	0.55
4:AH:31:ARG:HA	4:AH:34:ASP:OD2	2.06	0.55
5:AI:35:ILE:HA	5:AI:38:ILE:HG22	1.88	0.55
2:AL:228:ILE:HG21	10:AM:403:BPH:HED1	1.87	0.55
3:AM:102:TYR:CE2	3:AM:108:PRO:HD3	2.41	0.55
2:AL:206:VAL:HG12	3:AM:142:MET:SD	2.46	0.55
3:AM:175:VAL:HG22	3:AM:185:TRP:CD2	2.41	0.55
9:AO:102:BCL:HBD	9:AP:101:BCL:CAD	2.37	0.55
5:AU:45:ASN:C	5:AU:49:ASP:HB3	2.26	0.55
9:B1:102:BCL:HBB3	9:B1:102:BCL:HMB1	1.88	0.55
1:BC:275:HIS:O	1:BC:278:ASP:HB3	2.06	0.55
1:BC:40:MET:HA	1:BC:248:THR:CG2	2.37	0.55
5:BD:22:VAL:HA	5:BD:25:VAL:CG2	2.37	0.55
5:BF:13:LEU:HD11	6:BG:11:ASP:OD2	2.06	0.55
2:BL:119:LYS:O	2:BL:121:GLY:N	2.40	0.55
3:BM:222:THR:O	3:BM:225:SER:OG	2.20	0.55
3:BM:248:ALA:O	3:BM:250:LEU:N	2.40	0.55
9:BQ:103:BCL:HBC2	9:BQ:104:BCL:HHB	1.88	0.55
9:BQ:104:BCL:CMA	9:BS:102:BCL:HMA1	2.24	0.55
9:BU:102:BCL:HED1	6:BV:32:VAL:HA	1.89	0.55
5:BU:40:LEU:HD11	5:BU:47:LEU:HD23	1.89	0.55
6:BX:17:PHE:CA	6:BX:20:ILE:HG22	2.37	0.55
4:BH:123:CYS:N	4:BH:232:THR:HG22	2.21	0.55
1:BC:148:THR:HA	1:BC:322:GLN:CG	2.37	0.55
3:AM:196:LEU:C	3:AM:198:TYR:H	2.10	0.55
5:AA:34:LEU:O	5:AA:38:ILE:HG23	2.07	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:100:TRP:HE3	1:AC:152:CYS:SG	2.30	0.55
1:AC:311:HIS:ND1	1:AC:317:PRO:HD3	2.21	0.55
3:AM:98:PRO:HB2	3:AM:171:TRP:HB3	1.88	0.55
6:AN:10:THR:HB	6:AN:13:GLU:OE2	2.07	0.55
6:AT:9:LEU:HB3	6:AT:13:GLU:CG	2.37	0.55
5:AU:40:LEU:HD11	5:AU:47:LEU:HD23	1.89	0.55
5:AW:45:ASN:O	5:AW:49:ASP:HB3	2.07	0.55
9:AW:101:BCL:HMD1	6:AX:36:HIS:HA	1.88	0.55
5:B5:45:ASN:O	5:B5:47:LEU:N	2.39	0.55
6:B6:30:GLY:O	6:B6:34:ILE:HG22	2.07	0.55
14:BA:102:CRT:H401	5:BD:38:ILE:HD13	1.89	0.55
2:BL:142:PHE:CD1	2:BL:143:VAL:N	2.74	0.55
2:BL:188:PHE:C	2:BL:190:PHE:N	2.60	0.55
2:BL:18:ILE:HG23	4:BH:259:LEU:HB2	1.89	0.55
3:BM:228:ARG:HD2	3:BM:228:ARG:N	2.22	0.55
3:BM:237:GLN:OE1	3:BM:244:ALA:HB3	2.06	0.55
5:BO:44:LEU:HD11	5:BO:46:TRP:CE3	2.42	0.55
5:BQ:19:ARG:NH1	15:BQ:101:PEF:C5	2.70	0.55
6:BR:30:GLY:O	6:BR:34:ILE:HG23	2.07	0.55
1:BC:176:SER:HA	5:BU:48:ASP:CG	2.28	0.55
5:BW:10:LYS:HB3	14:BW:103:CRT:H5	1.87	0.55
5:BW:12:TRP:HZ2	6:BX:21:PHE:CD2	2.25	0.55
6:BX:28:TRP:HA	6:BX:31:LEU:HD12	1.89	0.55
6:BJ:10:THR:HG22	6:BJ:11:ASP:N	2.16	0.55
1:AC:135:ARG:NH1	1:AC:332:LYS:HA	2.15	0.55
6:AX:34:ILE:O	6:AX:34:ILE:HD13	2.07	0.55
5:A1:12:TRP:CZ2	6:A2:21:PHE:CE2	2.95	0.54
2:AL:49:LEU:HD21	5:A9:37:MET:HG2	1.89	0.54
5:AA:11:ILE:HD12	5:AA:14:ILE:HD11	1.88	0.54
9:AG:101:BCL:NB	9:AI:102:BCL:HMB3	2.21	0.54
3:AM:151:ALA:O	3:AM:155:PHE:N	2.37	0.54
3:AM:179:ILE:N	3:AM:179:ILE:CD1	2.70	0.54
3:AM:240:HIS:O	3:AM:241:ARG:O	2.25	0.54
2:AL:204:LEU:CD2	3:AM:267:ARG:HD2	2.36	0.54
3:AM:35:ILE:O	3:AM:48:ILE:N	2.39	0.54
3:AM:83:VAL:HA	3:AM:86:PHE:HB3	1.90	0.54
9:AO:102:BCL:H62	6:AP:28:TRP:CZ3	2.42	0.54
9:AO:102:BCL:CBD	9:AP:101:BCL:OBD	2.54	0.54
10:AM:403:BPH:H112	15:AS:101:PEF:H162	1.90	0.54
5:AU:8:LEU:HB2	6:AV:18:HIS:CE1	2.43	0.54
6:B0:28:TRP:O	6:B0:31:LEU:HB2	2.07	0.54
6:BB:20:ILE:HG13	5:B9:7:ASN:O	2.06	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:BG:30:GLY:HA2	6:BG:33:VAL:HG12	1.89	0.54
5:BY:42:THR:O	5:BY:43:ASP:C	2.46	0.54
6:BB:44:PRO:HG2	5:BD:52:PRO:HB2	1.89	0.54
3:AM:301:HIS:CE1	4:AH:8:TYR:HD2	2.25	0.54
1:BC:71:LYS:HD3	1:BC:74:GLU:HG2	1.87	0.54
1:BC:47:ARG:O	1:BC:47:ARG:HG2	2.07	0.54
5:A5:32:GLY:HA3	9:A5:102:BCL:O1A	2.08	0.54
1:AC:245:VAL:HG21	1:AC:249:PHE:CG	2.43	0.54
4:AH:181:TYR:CD1	4:AH:196:PRO:HA	2.42	0.54
3:AM:208:PHE:C	3:AM:210:TYR:H	2.09	0.54
3:AM:78:SER:O	3:AM:80:HIS:N	2.36	0.54
5:AO:36:HIS:NE2	9:AP:101:BCL:CMD	2.70	0.54
5:AO:44:LEU:HD12	5:AO:46:TRP:N	2.21	0.54
5:AU:12:TRP:NE1	6:AV:18:HIS:CA	2.62	0.54
5:AU:46:TRP:CZ3	9:AU:102:BCL:HAC1	2.42	0.54
5:AU:12:TRP:CZ2	6:AV:21:PHE:HD2	2.25	0.54
6:B4:18:HIS:C	6:B4:18:HIS:CD2	2.81	0.54
5:B9:26:ALA:O	5:B9:29:ILE:CG2	2.55	0.54
2:BL:248:SER:O	2:BL:249:ALA:C	2.45	0.54
3:BM:177:PHE:CZ	14:BM:406:CRT:H25	2.42	0.54
2:BL:228:ILE:O	3:BM:51:ILE:HD11	2.05	0.54
14:BP:102:CRT:C2M	5:BQ:36:HIS:HB2	2.34	0.54
5:BQ:46:TRP:CZ2	9:BQ:103:BCL:HHC	2.42	0.54
4:BH:154:MET:O	4:BH:167:VAL:HG13	2.08	0.54
4:BH:94:PRO:CG	6:B0:8:GLY:HA3	2.31	0.54
6:B4:46:LEU:HB2	5:B5:52:PRO:CD	2.36	0.54
5:BK:34:LEU:O	5:BK:37:MET:HB2	2.07	0.54
6:AT:40:TRP:CZ3	6:AT:44:PRO:HA	2.42	0.54
5:A1:14:ILE:O	5:A3:18:ARG:NH1	2.40	0.54
1:AC:236:MET:SD	7:AC:503:HEM:NA	2.80	0.54
5:AD:46:TRP:CD1	5:AD:47:LEU:HD22	2.42	0.54
6:AJ:17:PHE:CE1	14:AJ:102:CRT:H9	2.43	0.54
3:AM:172:ALA:C	3:AM:174:ALA:H	2.09	0.54
3:AM:71:ILE:HD13	3:AM:177:PHE:CD1	2.42	0.54
5:AS:21:LEU:O	5:AS:25:VAL:HG23	2.06	0.54
5:AS:40:LEU:CD1	5:AS:47:LEU:HD23	2.35	0.54
5:AS:27:PHE:CZ	5:AU:29:ILE:HG13	2.41	0.54
5:B1:14:ILE:HD12	5:B1:15:LEU:HG	1.89	0.54
9:B4:101:BCL:CHC	9:B5:102:BCL:HBB3	2.38	0.54
6:B8:36:HIS:HD1	9:B8:101:BCL:H141	1.71	0.54
5:BA:36:HIS:O	5:BA:40:LEU:HB3	2.07	0.54
5:BA:40:LEU:HB2	5:BA:46:TRP:CH2	2.42	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:251:HIS:HE1	1:BC:256:PHE:O	1.90	0.54
1:BC:205:ASP:OD1	1:BC:304:ARG:NE	2.41	0.54
5:BD:33:LEU:O	5:BD:37:MET:HG2	2.08	0.54
9:BJ:101:BCL:HBB2	9:BJ:101:BCL:HMB1	1.89	0.54
2:BL:117:CYS:HB3	2:BL:124:PHE:CE2	2.42	0.54
2:BL:87:ALA:HB3	2:BL:96:GLN:NE2	2.23	0.54
3:BM:234:GLU:O	3:BM:235:ILE:C	2.45	0.54
5:BQ:42:THR:OG1	5:BS:48:ASP:OD1	2.25	0.54
9:BS:102:BCL:OBD	6:BT:32:VAL:HG23	2.07	0.54
1:BC:54:GLN:HE21	1:BC:54:GLN:HA	1.73	0.54
6:B2:46:LEU:OXT	6:B4:43:ARG:NH2	2.39	0.54
5:B9:16:ASP:CG	5:B9:17:PRO:HD2	2.27	0.54
2:BL:104:GLY:HA2	2:BL:107:ILE:HB	1.88	0.54
3:AM:316:PRO:HG2	3:AM:317:TYR:HD1	1.71	0.54
6:A4:43:ARG:O	6:A4:45:TRP:N	2.40	0.54
5:A5:18:ARG:HB2	5:A5:19:ARG:NH1	2.22	0.54
6:A6:30:GLY:O	6:A6:34:ILE:HG22	2.06	0.54
5:AA:11:ILE:HD11	5:AA:14:ILE:HD11	1.89	0.54
5:AA:18:ARG:O	5:AA:22:VAL:HG12	2.07	0.54
5:AA:45:ASN:HB3	5:AA:49:ASP:HB3	1.90	0.54
1:AC:253:THR:HG22	2:AL:171:TYR:HD2	1.71	0.54
1:AC:128:ARG:HE	7:AC:501:HEM:HAD1	1.73	0.54
4:AH:66:THR:O	4:AH:66:THR:HG23	2.07	0.54
5:AI:29:ILE:HA	9:AI:102:BCL:H11	1.89	0.54
2:AL:48:LEU:HD13	5:AA:33:LEU:HD23	1.89	0.54
3:AM:182:HIS:HD1	3:AM:183:LEU:N	2.05	0.54
10:AM:403:BPH:C9	15:AM:409:PEF:C22	2.85	0.54
3:AM:84:PHE:CE1	5:AW:37:MET:HG2	2.42	0.54
5:AO:31:LEU:CD2	14:AP:102:CRT:H32	2.38	0.54
5:AO:46:TRP:CZ3	9:AO:102:BCL:HBC3	2.41	0.54
14:AS:104:CRT:H342	9:AW:101:BCL:CBA	2.32	0.54
5:AU:45:ASN:OD1	5:AU:47:LEU:HB2	2.07	0.54
5:B1:20:VAL:O	5:B1:24:ILE:HG12	2.07	0.54
9:B2:101:BCL:C1B	9:B3:102:BCL:CMB	2.84	0.54
6:B4:18:HIS:CD2	6:B4:22:MET:HB2	2.43	0.54
6:BE:21:PHE:CZ	9:BF:102:BCL:H203	2.42	0.54
6:BJ:17:PHE:CE1	6:BJ:21:PHE:HB2	2.38	0.54
5:BK:16:ASP:CB	5:BK:18:ARG:HE	2.21	0.54
2:BL:246:ALA:CB	3:BM:217:ALA:HB2	2.37	0.54
3:BM:223:ILE:HG22	3:BM:224:LEU:N	2.22	0.54
5:BQ:53:VAL:O	5:BQ:54:SER:C	2.45	0.54
5:BW:35:ILE:HG22	5:BW:36:HIS:N	2.23	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:4:MET:SD	6:AJ:23:GLN:HG3	2.48	0.54
5:BD:9:TYR:CE1	6:BE:11:ASP:CB	2.88	0.54
6:BT:30:GLY:O	6:BT:34:ILE:HG12	2.08	0.54
5:BF:16:ASP:O	5:BF:20:VAL:HG22	2.06	0.54
5:A1:10:LYS:HD2	6:A4:20:ILE:CG1	2.38	0.54
9:A7:103:BCL:H12	9:A7:103:BCL:O1A	2.08	0.54
6:A8:34:ILE:HD13	6:A8:34:ILE:C	2.27	0.54
9:AB:101:BCL:CBB	9:AB:101:BCL:HMB1	2.37	0.54
1:AC:249:PHE:CD1	1:AC:250:CYS:SG	2.98	0.54
1:AC:265:LYS:HE2	7:AC:504:HEM:O2A	2.06	0.54
6:AJ:45:TRP:CZ3	9:AJ:101:BCL:HAC2	2.43	0.54
2:AL:171:TYR:C	2:AL:173:PHE:N	2.60	0.54
3:AM:83:VAL:HG23	3:AM:84:PHE:N	2.22	0.54
3:AM:90:PHE:HA	3:AM:93:LEU:HD12	1.90	0.54
5:AW:25:VAL:O	5:AW:29:ILE:HB	2.08	0.54
5:AW:31:LEU:CD1	14:AX:102:CRT:H35	2.38	0.54
14:AX:102:CRT:H2M1	5:AY:36:HIS:HB2	1.89	0.54
9:BA:101:BCL:CMB	9:B0:102:BCL:C1B	2.81	0.54
6:B0:21:PHE:CD1	14:B0:101:CRT:C16	2.91	0.54
9:B1:102:BCL:HMB1	9:B1:102:BCL:HBB2	1.89	0.54
5:B7:44:LEU:O	5:B7:44:LEU:HD13	2.07	0.54
5:B9:12:TRP:HA	5:B9:12:TRP:CE3	2.41	0.54
9:BA:101:BCL:CBB	9:B0:102:BCL:CHC	2.85	0.54
5:BF:36:HIS:O	5:BF:40:LEU:N	2.40	0.54
5:BI:9:TYR:CB	6:BJ:15:LYS:HA	2.32	0.54
3:BM:235:ILE:HD12	3:BM:235:ILE:N	2.14	0.54
5:BQ:43:ASP:H	5:BS:47:LEU:HB3	1.73	0.54
9:BQ:104:BCL:HAC2	6:BR:45:TRP:CE3	2.43	0.54
6:B8:40:TRP:HH2	6:B8:46:LEU:HD12	1.73	0.54
4:BH:133:ILE:HD11	4:BH:171:TRP:HB3	1.89	0.54
5:AK:16:ASP:O	5:AK:19:ARG:HG2	2.08	0.54
1:BC:90:PHE:O	1:BC:93:THR:HB	2.08	0.54
5:BY:16:ASP:CB	5:BY:18:ARG:HE	2.18	0.54
9:A9:102:BCL:HBC2	9:A0:102:BCL:CMD	2.38	0.54
6:A0:28:TRP:O	6:A0:31:LEU:HB2	2.07	0.54
6:A4:10:THR:HB	6:A4:13:GLU:OE2	2.08	0.54
9:A5:102:BCL:HBC2	9:A6:101:BCL:CMD	2.36	0.54
6:A8:40:TRP:HH2	6:A8:46:LEU:HD12	1.73	0.54
1:AC:203:PHE:CD1	1:AC:235:LEU:HD22	2.42	0.54
5:AF:36:HIS:NE2	9:AG:101:BCL:HMD1	2.22	0.54
4:AH:27:ILE:HG23	4:AH:28:ILE:N	2.23	0.54
5:AI:49:ASP:OD2	6:AJ:43:ARG:NH2	2.41	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AK:26:ALA:O	5:AK:29:ILE:HG22	2.07	0.54
2:AL:75:ILE:HG22	2:AL:95:TRP:CD1	2.42	0.54
3:AM:261:THR:C	3:AM:263:GLU:H	2.10	0.54
3:AM:260:VAL:HG13	13:AM:405:MQ8:H142	1.89	0.54
5:AO:12:TRP:CD2	6:AP:17:PHE:HD2	2.25	0.54
6:AT:32:VAL:O	6:AT:35:ALA:HB3	2.07	0.54
14:AS:104:CRT:H16	6:AV:21:PHE:CE1	2.43	0.54
5:AW:35:ILE:HA	5:AW:38:ILE:HG22	1.90	0.54
6:B2:17:PHE:HA	14:B2:102:CRT:C6	2.38	0.54
5:BA:40:LEU:HD11	5:BA:47:LEU:HD23	1.90	0.54
1:BC:270:TRP:C	1:BC:273:ILE:HD12	2.27	0.54
5:BF:9:TYR:HA	6:BG:18:HIS:CE1	2.43	0.54
2:BL:228:ILE:HG23	3:BM:132:ARG:HD2	1.90	0.54
3:BM:204:LEU:C	3:BM:206:ILE:N	2.60	0.54
2:BL:29:PRO:O	3:BM:254:TRP:HA	2.08	0.54
3:AM:14:ARG:NH1	3:AM:14:ARG:HG3	2.22	0.54
5:AQ:8:LEU:HD23	6:AR:22:MET:CE	2.38	0.54
6:AB:34:ILE:HD13	6:AB:34:ILE:O	2.07	0.54
6:A8:44:PRO:HG2	5:A9:52:PRO:HB2	1.90	0.54
4:AH:52:ARG:HB2	4:AH:54:LYS:HZ3	1.70	0.54
5:AF:7:ASN:CB	6:AJ:20:ILE:HD13	2.38	0.54
2:AL:44:LEU:HD21	13:AM:405:MQ8:H391	1.90	0.54
2:AL:196:LEU:CG	3:AM:216:PHE:HB2	2.37	0.54
3:AM:250:LEU:O	3:AM:253:ARG:HB3	2.07	0.54
5:AO:49:ASP:CG	5:AO:50:ASN:N	2.61	0.54
6:AT:45:TRP:O	6:AT:46:LEU:HB2	2.08	0.54
14:AS:104:CRT:H14	6:AV:21:PHE:HD1	1.73	0.54
9:AX:101:BCL:C1B	9:AY:102:BCL:HMB3	2.38	0.54
6:AX:22:MET:HG3	6:AX:26:TYR:CE2	2.39	0.54
6:B2:21:PHE:HE1	14:B2:102:CRT:H19	1.70	0.54
5:B3:12:TRP:CD1	6:B4:18:HIS:HB2	2.43	0.54
5:B7:32:GLY:N	9:B8:101:BCL:HED2	2.23	0.54
5:BK:45:ASN:O	5:BK:49:ASP:HB3	2.08	0.54
1:BC:36:ARG:HB3	2:BL:79:ASP:CG	2.28	0.54
3:BM:170:SER:O	3:BM:172:ALA:N	2.39	0.54
3:BM:8:PHE:HB3	3:BM:42:LYS:HG2	1.89	0.54
14:BU:103:CRT:H291	9:BY:102:BCL:HAA2	1.90	0.54
5:BW:16:ASP:HB2	5:BW:19:ARG:HG2	1.89	0.54
1:BC:153:TYR:HD2	1:BC:323:MET:HE1	1.72	0.54
3:BM:98:PRO:CG	3:BM:107:PRO:HG3	2.37	0.54
5:AD:12:TRP:HE1	6:AE:18:HIS:HA	1.71	0.54
6:AX:38:LEU:C	6:AX:38:LEU:HD23	2.28	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:A3:104:BCL:CBB	9:A3:104:BCL:HMB1	2.38	0.54
5:AA:50:ASN:CG	5:AA:51:ILE:HG12	2.28	0.54
1:AC:249:PHE:CE1	1:AC:265:LYS:HG2	2.42	0.54
5:AI:49:ASP:OD1	5:AI:49:ASP:N	2.40	0.54
5:AF:11:ILE:CA	14:AJ:102:CRT:H82	2.37	0.54
2:AL:15:GLY:O	2:AL:118:ARG:HD3	2.08	0.54
2:AL:192:ASN:C	2:AL:192:ASN:ND2	2.61	0.54
2:AL:196:LEU:HD21	3:AM:269:ALA:HB1	1.88	0.54
5:AO:4:MET:SD	5:AO:4:MET:N	2.81	0.54
9:AP:101:BCL:OBB	9:AP:101:BCL:HHC	2.08	0.54
14:AS:104:CRT:H2M3	5:AW:37:MET:N	2.23	0.54
9:AU:102:BCL:HMB1	9:AU:102:BCL:HBB2	1.90	0.54
5:AU:9:TYR:HB2	6:AV:15:LYS:HD2	1.89	0.54
14:B2:102:CRT:C2M	5:B3:36:HIS:CB	2.71	0.54
5:B5:10:LYS:HB3	14:B5:103:CRT:C5	2.31	0.54
1:BC:195:LEU:HB3	1:BC:196:PRO:HD2	1.88	0.54
5:BD:17:PRO:O	5:BD:21:LEU:HB2	2.08	0.54
2:BL:180:PRO:O	2:BL:183:MET:HB2	2.08	0.54
2:BL:192:ASN:N	2:BL:245:LEU:HD13	2.23	0.54
2:BL:37:VAL:HG23	2:BL:38:VAL:N	2.23	0.54
3:BM:150:PHE:N	10:BM:403:BPH:HMD3	2.22	0.54
3:BM:215:LEU:HA	3:BM:218:MET:CG	2.37	0.54
5:BO:10:LYS:CB	14:BO:103:CRT:H5	2.37	0.54
5:BO:12:TRP:HE1	6:BP:18:HIS:HD1	1.55	0.54
5:BW:9:TYR:CD1	6:BX:15:LYS:HB2	2.43	0.54
9:BX:101:BCL:C1B	9:BY:102:BCL:HMB3	2.38	0.54
6:BX:46:LEU:HD13	6:BZ:42:TYR:OH	2.07	0.54
14:A5:103:CRT:C40	5:A7:38:ILE:HG21	2.37	0.54
5:A7:33:LEU:HD12	5:A7:33:LEU:H	1.73	0.54
5:AA:50:ASN:HD21	5:AA:51:ILE:HG12	1.71	0.54
5:AD:46:TRP:NE1	9:AD:102:BCL:HHC	2.23	0.54
4:AH:119:ARG:NE	4:AH:237:ASP:OD2	2.41	0.54
4:AH:18:ALA:O	4:AH:21:LEU:HB3	2.08	0.54
5:AK:9:TYR:CD2	6:AN:15:LYS:HG3	2.43	0.54
2:AL:129:ALA:HB1	2:AL:247:LEU:HD21	1.90	0.54
2:AL:183:MET:HA	9:AL:303:BCL:OBD	2.07	0.54
2:AL:203:ILE:O	2:AL:205:SER:N	2.40	0.54
3:AM:138:GLU:HA	3:AM:142:MET:O	2.08	0.54
3:AM:206:ILE:CA	9:AM:402:BCL:HMA1	2.33	0.54
3:AM:4:TYR:HE2	3:AM:10:ALA:HB2	1.73	0.54
3:AM:53:LEU:HG	3:AM:58:THR:HG23	1.90	0.54
5:AU:35:ILE:HA	5:AU:38:ILE:HG22	1.90	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:B0:102:BCL:CBB	9:B0:102:BCL:HMB1	2.38	0.54
6:B8:34:ILE:C	6:B8:34:ILE:HD13	2.28	0.54
6:BE:45:TRP:CZ3	9:BE:101:BCL:HAC2	2.42	0.54
4:BH:80:ARG:HH11	4:BH:80:ARG:HG3	1.72	0.54
6:BJ:20:ILE:HG23	6:BJ:21:PHE:N	2.23	0.54
5:BK:36:HIS:CE1	9:BK:102:BCL:NA	2.75	0.54
3:BM:190:SER:HA	3:BM:196:LEU:HG	1.90	0.54
3:BM:204:LEU:O	3:BM:206:ILE:N	2.41	0.54
3:BM:242:GLY:C	4:BH:117:PRO:HG3	2.27	0.54
14:BN:102:CRT:H2M3	5:BO:36:HIS:CB	2.38	0.54
6:BN:46:LEU:HB3	6:BP:42:TYR:OH	2.08	0.54
9:BQ:104:BCL:HBB1	9:BS:102:BCL:HMC3	1.90	0.54
5:BS:26:ALA:O	5:BS:30:VAL:HG12	2.08	0.54
3:BM:103:GLY:O	3:BM:104:LEU:HD13	2.07	0.54
1:AC:137:ALA:O	1:AC:139:SER:N	2.40	0.54
4:BH:123:CYS:H	4:BH:232:THR:HG22	1.73	0.54
6:BB:46:LEU:O	5:BD:51:ILE:O	2.26	0.54
6:AX:30:GLY:O	6:AX:34:ILE:HG22	2.08	0.54
1:AC:70:PRO:HG2	1:AC:71:LYS:H	1.72	0.54
5:A1:12:TRP:HD1	6:A2:18:HIS:HB2	1.73	0.54
5:AY:43:ASP:HA	5:A1:48:ASP:HB3	1.90	0.54
9:A1:102:BCL:H91	14:A2:102:CRT:H183	1.89	0.54
5:A7:46:TRP:HH2	9:A7:103:BCL:HBC3	1.69	0.54
5:AF:43:ASP:O	5:AF:44:LEU:HG	2.08	0.54
2:AL:6:PHE:CD2	3:AM:246:GLU:HG3	2.43	0.54
6:AN:10:THR:C	6:AN:13:GLU:OE2	2.46	0.54
6:AN:31:LEU:HA	6:AN:34:ILE:HG22	1.89	0.54
2:AL:280:LEU:HD21	5:AY:37:MET:SD	2.48	0.54
9:AZ:101:BCL:CBB	9:AZ:101:BCL:HMB1	2.37	0.54
5:B7:10:LYS:H	5:B7:10:LYS:HD2	1.73	0.54
9:B9:102:BCL:C1D	9:B0:102:BCL:CMD	2.85	0.54
5:BA:33:LEU:H	5:BA:33:LEU:CD1	2.21	0.54
4:BH:5:ILE:HD11	5:BF:40:LEU:HD11	1.88	0.54
4:BH:182:LEU:HD12	4:BH:195:LEU:O	2.08	0.54
2:BL:167:SER:HA	9:BL:301:BCL:HBC1	1.90	0.54
2:BL:177:HIS:CE1	9:BM:402:BCL:HAC2	2.43	0.54
3:BM:189:PHE:HB3	9:BM:402:BCL:HMD3	1.89	0.54
3:BM:200:PRO:HD2	3:BM:294:TRP:CZ3	2.43	0.54
3:BM:126:ILE:HD13	9:BM:402:BCL:H91	1.90	0.54
9:BV:101:BCL:CBB	9:BV:101:BCL:HMB1	2.38	0.54
5:BU:12:TRP:CZ2	6:BV:21:PHE:HD2	2.16	0.54
6:BV:7:THR:OG1	6:BV:8:GLY:N	2.40	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BA:22:VAL:HA	5:BA:25:VAL:HG23	1.90	0.54
3:AM:199:ASN:HB2	3:AM:294:TRP:CG	2.43	0.54
4:AH:219:PHE:HA	4:AH:222:VAL:HG23	1.89	0.54
6:BV:13:GLU:CD	6:BV:13:GLU:H	2.10	0.54
9:A9:102:BCL:HBC2	9:A0:102:BCL:HMD2	1.90	0.53
5:A3:19:ARG:O	5:A3:23:SER:CB	2.42	0.53
5:A7:36:HIS:HB3	14:A7:102:CRT:C39	2.38	0.53
6:A8:43:ARG:NH2	5:A9:55:TYR:CB	2.69	0.53
1:AC:225:SER:HB3	1:AC:228:GLN:HE21	1.73	0.53
1:AC:248:THR:O	1:AC:251:HIS:O	2.26	0.53
4:AH:24:PHE:C	4:AH:27:ILE:HG22	2.29	0.53
2:AL:193:CYS:O	10:AM:403:BPH:H3C	2.07	0.53
2:AL:87:ALA:HB3	2:AL:96:GLN:NE2	2.23	0.53
1:AC:226:LEU:H	3:AM:173:LYS:HE3	1.74	0.53
3:AM:35:ILE:HD11	15:AM:409:PEF:C32	2.37	0.53
3:AM:79:VAL:O	3:AM:79:VAL:HG13	2.08	0.53
3:AM:55:LEU:HD23	5:AQ:22:VAL:HG23	1.89	0.53
5:AS:9:TYR:HA	6:AT:18:HIS:CG	2.43	0.53
5:AU:14:ILE:HB	14:AX:102:CRT:H82	1.89	0.53
5:AY:10:LYS:NZ	14:A2:102:CRT:H1M2	2.23	0.53
5:AY:12:TRP:HE1	6:AZ:18:HIS:CA	2.15	0.53
5:B9:44:LEU:HD22	5:B9:46:TRP:HB3	1.90	0.53
1:BC:243:LEU:CD1	1:BC:243:LEU:H	2.20	0.53
1:BC:122:TYR:HB2	1:BC:290:VAL:HB	1.89	0.53
6:BG:20:ILE:O	6:BG:24:SER:OG	2.26	0.53
3:BM:268:TRP:CD1	4:BH:30:LEU:HD22	2.42	0.53
9:BG:101:BCL:C2B	9:BI:102:BCL:C2B	2.86	0.53
9:BI:102:BCL:HBC2	9:BI:102:BCL:CHD	2.38	0.53
5:BK:16:ASP:HB3	5:BK:18:ARG:NE	2.23	0.53
2:BL:166:VAL:HG13	9:BL:301:BCL:CHD	2.38	0.53
3:BM:244:ALA:O	3:BM:246:GLU:N	2.41	0.53
3:BM:261:THR:N	3:BM:264:SER:OG	2.37	0.53
6:BN:38:LEU:HA	6:BN:41:LEU:HD12	1.89	0.53
5:BK:43:ASP:OD1	5:BO:47:LEU:HB3	2.08	0.53
6:BP:45:TRP:CE2	9:BP:101:BCL:H2C	2.43	0.53
3:BM:59:LEU:CD1	5:BQ:29:ILE:HG21	2.34	0.53
5:BY:27:PHE:HE1	5:BY:31:LEU:HD22	1.73	0.53
5:AI:15:LEU:N	5:AI:15:LEU:HD22	2.23	0.53
3:BM:41:GLY:HA2	3:BM:44:GLY:O	2.08	0.53
4:AH:215:LYS:H	4:AH:218:HIS:HD2	1.56	0.53
6:AV:33:VAL:HG13	6:AV:34:ILE:N	2.23	0.53
9:A1:102:BCL:ND	9:A2:101:BCL:CMD	2.70	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:A1:43:ASP:HB2	5:A3:47:LEU:HD12	1.90	0.53
5:A1:46:TRP:O	5:A1:49:ASP:OD1	2.26	0.53
5:A5:29:ILE:O	5:A5:29:ILE:HD13	2.07	0.53
1:AC:157:ARG:NE	1:AC:312:GLN:HE22	2.06	0.53
6:AJ:21:PHE:CE1	14:AJ:102:CRT:H16	2.43	0.53
6:AJ:17:PHE:HE1	6:AJ:21:PHE:HB2	1.73	0.53
2:AL:166:VAL:HG13	9:AL:301:BCL:HMD2	1.89	0.53
3:AM:91:PHE:O	3:AM:180:PHE:HB2	2.09	0.53
3:AM:191:ILE:O	3:AM:193:TYR:N	2.41	0.53
3:AM:156:PHE:CD1	3:AM:281:GLY:N	2.76	0.53
5:AQ:31:LEU:O	5:AQ:34:LEU:HB3	2.08	0.53
5:AS:39:VAL:O	5:AS:42:THR:HB	2.08	0.53
6:AV:43:ARG:NH1	5:AW:55:TYR:HB3	2.23	0.53
6:AX:28:TRP:HE3	6:AX:31:LEU:HD12	1.73	0.53
5:B7:36:HIS:CB	14:B7:102:CRT:H393	2.37	0.53
9:BG:101:BCL:HMB1	9:BG:101:BCL:CBB	2.38	0.53
2:BL:10:TYR:CE1	4:BH:115:ALA:HB3	2.43	0.53
4:BH:37:GLU:C	4:BH:39:TYR:H	2.12	0.53
6:BJ:42:TYR:CE2	6:BJ:43:ARG:HG3	2.43	0.53
2:BL:255:VAL:O	2:BL:257:ILE:N	2.42	0.53
2:BL:276:LEU:H	2:BL:276:LEU:CD2	2.18	0.53
1:BC:176:SER:OG	5:BS:42:THR:HA	2.08	0.53
5:BQ:43:ASP:HB2	5:BS:47:LEU:CB	2.38	0.53
5:BU:29:ILE:N	9:BU:102:BCL:H43	2.23	0.53
6:BV:28:TRP:HA	6:BV:31:LEU:HB2	1.90	0.53
3:BM:271:TRP:NE1	4:BH:26:LEU:HD11	2.23	0.53
9:A3:104:BCL:C6	6:A4:29:PHE:HE1	2.20	0.53
5:A5:44:LEU:C	5:A5:46:TRP:H	2.11	0.53
9:A5:102:BCL:C1D	9:A6:101:BCL:HMD2	2.38	0.53
5:AA:38:ILE:O	5:AA:41:SER:HB3	2.08	0.53
1:AC:285:TRP:CB	1:AC:286:PRO:HD3	2.39	0.53
4:AH:171:TRP:CZ3	4:AH:231:VAL:HG12	2.43	0.53
4:AH:18:ALA:O	4:AH:19:PHE:C	2.45	0.53
5:AK:44:LEU:O	5:AK:44:LEU:HD13	2.08	0.53
2:AL:142:PHE:CD1	2:AL:143:VAL:N	2.76	0.53
3:AM:56:THR:HG21	3:AM:131:VAL:CG1	2.39	0.53
3:AM:153:ALA:HA	3:AM:277:VAL:HG11	1.91	0.53
3:AM:240:HIS:CD2	4:AH:120:PRO:HG2	2.43	0.53
3:AM:63:PHE:HZ	5:AQ:33:LEU:CD2	2.12	0.53
3:AM:73:PHE:HA	14:AM:406:CRT:H1M1	1.90	0.53
9:AN:101:BCL:H2A	9:AN:101:BCL:CGD	2.37	0.53
5:AO:36:HIS:O	5:AO:40:LEU:CB	2.54	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AO:46:TRP:CD1	5:AO:47:LEU:HD22	2.43	0.53
5:AO:12:TRP:CH2	6:AP:17:PHE:HE2	2.26	0.53
6:B2:17:PHE:O	6:B2:20:ILE:HG22	2.08	0.53
1:BC:204:LEU:HD22	7:BC:504:HEM:HBB1	1.91	0.53
4:BH:53:VAL:O	4:BH:53:VAL:HG13	2.08	0.53
4:BH:54:LYS:CE	4:BH:54:LYS:HA	2.34	0.53
5:BI:35:ILE:CA	5:BI:38:ILE:HG22	2.35	0.53
2:BL:186:ILE:HG12	9:BL:301:BCL:HMB3	1.90	0.53
2:BL:49:LEU:HD12	2:BL:98:ILE:HG13	1.91	0.53
3:BM:316:PRO:HG2	3:BM:317:TYR:CD1	2.44	0.53
5:BO:7:ASN:ND2	6:BR:20:ILE:HD12	2.18	0.53
14:BS:103:CRT:H2M1	5:BU:37:MET:HG2	1.90	0.53
5:BW:8:LEU:HD21	6:BZ:24:SER:OG	2.08	0.53
2:AL:21:ASP:HB3	5:A7:19:ARG:NE	2.23	0.53
6:B0:9:LEU:HB3	6:B0:13:GLU:CG	2.38	0.53
5:AW:19:ARG:HH12	5:AY:22:VAL:HG23	1.71	0.53
6:B4:42:TYR:C	6:B4:42:TYR:HD1	2.12	0.53
5:A1:46:TRP:CD1	5:A1:47:LEU:N	2.77	0.53
5:AY:43:ASP:HA	5:A1:48:ASP:HA	1.91	0.53
9:A2:101:BCL:HBB3	9:A2:101:BCL:HMB1	1.90	0.53
5:A5:17:PRO:O	5:A5:21:LEU:HB2	2.08	0.53
5:A9:12:TRP:NE1	6:A0:18:HIS:ND1	2.56	0.53
5:AA:40:LEU:HD11	5:AA:47:LEU:HD23	1.90	0.53
6:AE:27:ALA:O	6:AE:31:LEU:HG	2.09	0.53
4:AH:126:THR:HG23	4:AH:130:LEU:O	2.08	0.53
4:AH:24:PHE:O	4:AH:27:ILE:HG22	2.08	0.53
5:AI:40:LEU:HD11	5:AI:46:TRP:CH2	2.42	0.53
2:AL:48:LEU:O	2:AL:51:VAL:HB	2.09	0.53
3:AM:214:LEU:HD22	3:AM:215:LEU:CD1	2.38	0.53
5:AO:45:ASN:O	5:AO:47:LEU:N	2.40	0.53
6:AP:46:LEU:HD22	6:AR:42:TYR:OH	2.08	0.53
5:AS:47:LEU:HD22	5:AS:47:LEU:N	2.21	0.53
14:AW:102:CRT:H14	6:AZ:21:PHE:CD2	2.43	0.53
5:AW:27:PHE:HE2	5:AY:29:ILE:HG12	1.72	0.53
6:AZ:44:PRO:O	5:A1:55:TYR:OH	2.26	0.53
6:B2:20:ILE:CG1	14:B2:102:CRT:C8	2.85	0.53
9:B3:102:BCL:HBA2	9:B4:101:BCL:OBD	2.09	0.53
5:B3:9:TYR:HA	6:B4:18:HIS:ND1	2.24	0.53
5:B9:46:TRP:CE2	9:B9:102:BCL:H2C	2.43	0.53
5:BD:20:VAL:HA	5:BD:23:SER:OG	2.08	0.53
3:BM:199:ASN:HD21	3:BM:283:GLY:CA	2.22	0.53
3:BM:31:ILE:HD11	15:BQ:101:PEF:O2P	2.09	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:BM:4:TYR:O	3:BM:4:TYR:HD1	1.92	0.53
9:BQ:104:BCL:OBB	9:BQ:104:BCL:HHC	2.08	0.53
5:BS:24:ILE:CD1	9:BU:102:BCL:H202	2.38	0.53
6:AE:10:THR:N	6:AE:13:GLU:OE2	2.41	0.53
1:BC:170:PRO:HG2	1:BC:171:GLY:N	2.22	0.53
1:BC:18:VAL:HG22	1:BC:19:MET:N	2.24	0.53
1:AC:316:LYS:O	1:AC:317:PRO:C	2.47	0.53
5:AF:12:TRP:HE1	6:AG:17:PHE:HD1	1.56	0.53
4:AH:168:SER:HB3	4:AH:183:GLU:HB2	1.91	0.53
3:AM:98:PRO:HD2	3:AM:171:TRP:O	2.08	0.53
3:AM:35:ILE:HD11	15:AM:409:PEF:H321	1.90	0.53
3:AM:76:LEU:HA	3:AM:86:PHE:CD1	2.43	0.53
9:AQ:102:BCL:CHD	9:AQ:102:BCL:HBC2	2.37	0.53
9:AY:102:BCL:C9	6:AZ:28:TRP:HB2	2.39	0.53
1:BC:276:VAL:CG1	1:BC:277:ARG:N	2.71	0.53
5:BF:11:ILE:CD1	5:BF:14:ILE:HD11	2.39	0.53
6:BG:45:TRP:O	6:BG:46:LEU:HB2	2.08	0.53
5:BF:14:ILE:HD13	6:BJ:17:PHE:CE2	2.44	0.53
2:BL:139:VAL:HA	2:BL:143:VAL:HB	1.91	0.53
2:BL:207:THR:HA	2:BL:215:VAL:HG13	1.90	0.53
2:BL:177:HIS:CB	3:BM:183:LEU:HD22	2.27	0.53
3:BM:75:MET:HE1	3:BM:90:PHE:HE1	1.73	0.53
5:BQ:28:GLN:O	9:BQ:103:BCL:H11	2.08	0.53
6:BV:17:PHE:HA	14:BV:102:CRT:C4	2.38	0.53
5:B1:53:VAL:O	5:B1:55:TYR:N	2.42	0.53
5:BO:4:MET:CB	6:BR:23:GLN:CB	2.77	0.53
5:A3:12:TRP:HA	5:A3:12:TRP:HE3	1.74	0.53
3:BM:13:VAL:HG12	4:BH:144:ILE:HD13	1.91	0.53
5:B7:56:GLN:H	5:B7:56:GLN:CD	2.11	0.53
3:BM:17:ALA:O	3:BM:19:PRO:HD3	2.09	0.53
6:AZ:29:PHE:CD1	6:AZ:29:PHE:N	2.77	0.53
5:A1:9:TYR:HA	6:A2:18:HIS:CE1	2.38	0.53
9:A2:101:BCL:HMB3	9:A3:103:BCL:C1B	2.38	0.53
5:A3:32:GLY:HA3	9:A3:103:BCL:O1A	2.09	0.53
5:A7:21:LEU:O	5:A7:25:VAL:HG23	2.07	0.53
1:AC:302:PRO:O	1:AC:302:PRO:HG2	2.08	0.53
9:AE:101:BCL:HHC	9:AE:101:BCL:OBB	2.09	0.53
6:AG:24:SER:O	6:AG:27:ALA:HB3	2.09	0.53
4:AH:234:TYR:CZ	4:AH:238:LYS:HE3	2.44	0.53
2:AL:99:THR:HG23	2:AL:157:TYR:OH	2.08	0.53
3:AM:59:LEU:HG	3:AM:128:LEU:CD2	2.38	0.53
5:AK:13:LEU:HD21	6:AN:10:THR:O	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:B1:102:BCL:C1D	9:B2:101:BCL:CMD	2.77	0.53
5:B3:44:LEU:HD13	5:B3:46:TRP:HE3	1.73	0.53
9:B6:101:BCL:CHB	9:B7:103:BCL:HMB3	2.39	0.53
5:BA:10:LYS:HB2	14:BA:102:CRT:H5	1.91	0.53
1:BC:128:ARG:O	1:BC:131:PHE:HB2	2.08	0.53
1:BC:245:VAL:HG23	1:BC:245:VAL:O	2.07	0.53
1:BC:272:ALA:O	1:BC:276:VAL:HG12	2.09	0.53
5:BD:40:LEU:HD13	5:BD:47:LEU:HD23	1.90	0.53
5:BD:45:ASN:HB3	5:BD:49:ASP:HB3	1.89	0.53
6:BE:29:PHE:CD1	9:BE:101:BCL:C2	2.91	0.53
6:BE:45:TRP:O	6:BE:46:LEU:CG	2.48	0.53
4:BH:69:LEU:HB2	4:BH:74:GLY:O	2.09	0.53
2:BL:237:ALA:O	2:BL:240:ARG:N	2.42	0.53
2:BL:97:ILE:O	2:BL:100:ILE:HB	2.09	0.53
2:BL:112:ARG:HH21	3:BM:255:THR:HA	1.72	0.53
3:BM:291:VAL:HG21	3:BM:297:TRP:CD1	2.44	0.53
5:BS:13:LEU:HD21	6:BT:10:THR:O	2.09	0.53
6:BN:19:ALA:O	6:BN:23:GLN:HG2	2.09	0.53
5:AK:16:ASP:HB2	5:AK:19:ARG:CG	2.35	0.53
6:A4:18:HIS:C	6:A4:18:HIS:CD2	2.81	0.53
1:AC:29:GLY:O	1:AC:30:THR:HG23	2.08	0.53
5:A5:4:MET:HE2	6:A8:24:SER:CB	2.37	0.53
6:A8:29:PHE:HZ	9:A8:101:BCL:C6	2.21	0.53
6:A8:23:GLN:HG3	6:A8:24:SER:N	2.24	0.53
6:AB:17:PHE:CE1	14:AB:102:CRT:C9	2.91	0.53
1:AC:270:TRP:HA	1:AC:273:ILE:HD12	1.90	0.53
2:AL:237:ALA:O	2:AL:238:ILE:C	2.47	0.53
2:AL:29:PRO:HB2	3:AM:253:ARG:CD	2.37	0.53
3:AM:177:PHE:CD1	14:AM:406:CRT:H16	2.43	0.53
3:AM:290:VAL:HG12	3:AM:291:VAL:N	2.23	0.53
9:AN:101:BCL:CBB	9:AN:101:BCL:HMB1	2.38	0.53
5:AQ:35:ILE:HA	5:AQ:38:ILE:CG2	2.32	0.53
6:AX:45:TRP:O	6:AX:46:LEU:CG	2.56	0.53
9:AX:101:BCL:HMC3	9:AY:102:BCL:HBB1	1.90	0.53
6:B2:30:GLY:O	6:B2:33:VAL:HG12	2.09	0.53
5:B1:11:ILE:HD13	9:B3:102:BCL:H151	1.90	0.53
6:B4:10:THR:HB	6:B4:13:GLU:OE2	2.08	0.53
9:B7:103:BCL:HMB1	9:B7:103:BCL:CBB	2.38	0.53
5:B7:10:LYS:HD3	6:B0:20:ILE:CD1	2.38	0.53
5:B7:36:HIS:HB3	14:B7:102:CRT:H2M3	1.87	0.53
9:BA:101:BCL:H151	5:B9:24:ILE:HD11	1.90	0.53
9:BA:101:BCL:HBB1	9:B0:102:BCL:HMC3	1.90	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:212:GLY:O	2:BL:213:GLU:HG2	2.09	0.53
2:BL:148:MET:CE	2:BL:262:PRO:HD3	2.38	0.53
3:BM:71:ILE:HD13	3:BM:177:PHE:CD1	2.43	0.53
3:BM:77:ALA:O	3:BM:80:HIS:N	2.42	0.53
3:BM:79:VAL:HG22	3:BM:79:VAL:O	2.08	0.53
9:BQ:103:BCL:HBA2	9:BQ:104:BCL:OBD	2.09	0.53
5:BW:7:ASN:N	5:BW:7:ASN:HD22	2.07	0.53
5:BW:14:ILE:HG21	5:BY:21:LEU:CD1	2.38	0.53
5:BY:33:LEU:HD12	5:BY:34:LEU:N	2.23	0.53
3:BM:102:TYR:H	3:BM:102:TYR:HD1	1.56	0.53
2:AL:148:MET:CE	2:AL:262:PRO:HD3	2.38	0.53
4:BH:133:ILE:CD1	4:BH:171:TRP:HB3	2.39	0.53
4:BH:235:GLU:HA	4:BH:238:LYS:HB2	1.91	0.53
6:A4:18:HIS:CD2	6:A4:22:MET:HB2	2.43	0.53
2:AL:5:SER:HB3	4:AH:38:GLY:O	2.09	0.53
9:A1:102:BCL:H92	6:A2:28:TRP:HB2	1.89	0.53
5:A3:36:HIS:CD2	9:A3:104:BCL:HMD1	2.43	0.53
5:A5:46:TRP:CZ2	9:A5:102:BCL:CHC	2.92	0.53
9:A8:101:BCL:HMB1	9:A8:101:BCL:CBB	2.39	0.53
5:AA:27:PHE:HA	5:AA:30:VAL:CG1	2.38	0.53
6:AB:28:TRP:HA	6:AB:31:LEU:HG	1.90	0.53
6:AG:45:TRP:O	6:AG:46:LEU:CB	2.53	0.53
4:AH:197:ILE:HD13	4:AH:197:ILE:O	2.08	0.53
9:AI:102:BCL:C3D	6:AJ:35:ALA:HB1	2.38	0.53
2:AL:278:LEU:HD12	2:AL:281:TRP:CZ2	2.44	0.53
2:AL:51:VAL:CG1	5:AA:37:MET:HG2	2.39	0.53
3:AM:136:ARG:CA	3:AM:136:ARG:NH1	2.68	0.53
3:AM:34:PRO:HG3	3:AM:50:PRO:CD	2.38	0.53
14:AS:104:CRT:H16	6:AV:21:PHE:HE1	1.73	0.53
9:AV:102:BCL:H172	6:AX:39:ALA:HA	1.90	0.53
5:AY:40:LEU:HD13	5:AY:46:TRP:CZ2	2.43	0.53
5:B1:19:ARG:O	5:B1:23:SER:CB	2.57	0.53
5:B1:27:PHE:O	5:B1:30:VAL:HG12	2.08	0.53
5:B1:38:ILE:HG23	5:B1:39:VAL:H	1.73	0.53
5:B3:14:ILE:CG2	5:B5:17:PRO:HB2	2.39	0.53
9:B5:102:BCL:HMB1	9:B5:102:BCL:CBB	2.38	0.53
5:B9:46:TRP:NE1	5:B9:47:LEU:HD22	2.23	0.53
1:BC:259:TRP:C	1:BC:261:GLN:H	2.10	0.53
5:BD:16:ASP:OD2	5:BD:18:ARG:HG2	2.07	0.53
4:BH:27:ILE:HD13	4:BH:27:ILE:O	2.07	0.53
3:BM:316:PRO:HG2	3:BM:317:TYR:HD1	1.73	0.53
5:BQ:35:ILE:CA	5:BQ:38:ILE:HG22	2.30	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BQ:43:ASP:CB	5:BS:47:LEU:HB3	2.39	0.53
5:BW:35:ILE:HA	5:BW:38:ILE:HG22	1.90	0.53
3:BM:25:LYS:HG2	5:BO:16:ASP:OD1	2.09	0.53
4:AH:185:GLU:HA	4:AH:191:LYS:O	2.09	0.53
5:BU:55:TYR:O	5:BU:59:GLY:HA3	2.09	0.53
6:A8:7:THR:HG23	6:A8:8:GLY:N	2.24	0.53
5:A9:2:PHE:HE1	6:A0:26:TYR:HH	1.56	0.53
6:AB:20:ILE:HG13	5:A9:7:ASN:HB2	1.88	0.53
1:AC:130:MET:SD	7:AC:502:HEM:NA	2.82	0.53
1:AC:157:ARG:HH12	1:AC:318:LEU:HG	1.73	0.53
6:AE:20:ILE:O	6:AE:23:GLN:HG3	2.08	0.53
4:AH:196:PRO:HG2	4:AH:199:PHE:HB2	1.91	0.53
5:AI:39:VAL:O	5:AI:43:ASP:HB3	2.08	0.53
2:AL:242:GLY:HA2	3:AM:216:PHE:HE2	1.74	0.53
2:AL:228:ILE:HG23	3:AM:132:ARG:HD2	1.90	0.53
3:AM:214:LEU:O	3:AM:218:MET:HG3	2.09	0.53
3:AM:233:ARG:O	3:AM:234:GLU:C	2.47	0.53
9:AO:102:BCL:C2D	9:AP:101:BCL:C2D	2.86	0.53
9:AR:101:BCL:HMC3	9:AS:103:BCL:HBB1	1.91	0.53
5:AQ:14:ILE:O	5:AS:18:ARG:NH2	2.41	0.53
6:AT:42:TYR:CE2	6:AT:43:ARG:HG2	2.44	0.53
5:AY:36:HIS:CE1	9:AY:102:BCL:NA	2.77	0.53
5:AY:9:TYR:HA	6:AZ:18:HIS:CG	2.44	0.53
6:B0:17:PHE:HD1	14:B0:101:CRT:C9	2.19	0.53
6:B2:26:TYR:HA	6:B2:29:PHE:HD2	1.74	0.53
5:B9:35:ILE:O	5:B9:39:VAL:HG23	2.09	0.53
6:BB:17:PHE:HD1	14:BB:102:CRT:C6	2.21	0.53
5:BD:12:TRP:HA	5:BD:12:TRP:HE3	1.74	0.53
5:BD:39:VAL:HG12	5:BD:46:TRP:HZ3	1.73	0.53
4:BH:5:ILE:HD11	5:BF:47:LEU:HD12	1.91	0.53
4:BH:36:ARG:HD2	4:BH:78:ALA:CB	2.39	0.53
2:BL:182:HIS:CE1	9:BL:301:BCL:NB	2.76	0.53
3:BM:157:TYR:CD1	3:BM:158:LEU:HD23	2.44	0.53
5:B1:44:LEU:HG	5:B1:44:LEU:O	2.08	0.53
3:BM:103:GLY:C	3:BM:104:LEU:HD22	2.28	0.53
5:B9:50:ASN:ND2	5:B9:51:ILE:HG12	2.21	0.53
9:A3:103:BCL:OBD	6:A4:32:VAL:HG13	2.09	0.53
5:A7:40:LEU:HD13	5:A7:46:TRP:CE2	2.44	0.53
1:AC:284:ILE:HG22	1:AC:284:ILE:O	2.08	0.53
5:AF:49:ASP:CG	5:AF:50:ASN:N	2.58	0.53
5:AF:7:ASN:HB3	6:AJ:20:ILE:HD13	1.90	0.53
5:AI:55:TYR:CD1	5:AI:56:GLN:N	2.75	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AM:132:ARG:CD	3:AM:132:ARG:O	2.57	0.53
3:AM:85:GLN:HG3	3:AM:89:HIS:HD2	1.73	0.53
6:AP:13:GLU:HA	6:AP:16:GLU:CG	2.38	0.53
5:AQ:42:THR:HG23	5:AQ:43:ASP:H	1.74	0.53
5:AU:42:THR:C	5:AW:48:ASP:HB3	2.29	0.53
5:AY:44:LEU:HD12	5:AY:44:LEU:O	2.09	0.53
9:B8:101:BCL:HMB1	9:B8:101:BCL:CBB	2.38	0.53
5:B9:5:ASN:HA	5:B9:8:LEU:CG	2.39	0.53
6:BB:20:ILE:HD12	14:BB:102:CRT:H81	1.89	0.53
1:BC:276:VAL:HG22	1:BC:280:ASN:ND2	2.23	0.53
5:BD:31:LEU:HD12	5:BD:34:LEU:HD23	1.91	0.53
2:BL:111:LEU:HA	2:BL:114:VAL:HG23	1.91	0.53
9:BO:102:BCL:O1D	9:BO:102:BCL:C2A	2.57	0.53
5:BS:55:TYR:CD1	5:BS:56:GLN:N	2.76	0.53
5:B1:51:ILE:HA	5:B1:52:PRO:C	2.29	0.53
6:BN:22:MET:HG3	6:BN:26:TYR:HE2	1.74	0.53
4:AH:219:PHE:HA	4:AH:222:VAL:CG2	2.39	0.53
6:AZ:30:GLY:O	6:AZ:34:ILE:HG22	2.08	0.53
6:A6:10:THR:HG22	6:A6:11:ASP:H	1.74	0.53
6:A0:20:ILE:HG23	6:A0:21:PHE:N	2.25	0.52
5:A3:56:GLN:HE21	5:A3:56:GLN:N	2.05	0.52
1:AC:183:GLN:O	1:AC:195:LEU:O	2.27	0.52
3:AM:102:TYR:O	3:AM:104:LEU:N	2.42	0.52
3:AM:204:LEU:O	3:AM:206:ILE:N	2.42	0.52
9:AK:102:BCL:H2	6:AN:28:TRP:CH2	2.44	0.52
9:AR:101:BCL:OBB	9:AR:101:BCL:HHC	2.09	0.52
5:AU:25:VAL:HG21	9:AU:102:BCL:H142	1.90	0.52
14:AW:102:CRT:H1M3	6:AZ:16:GLU:HB3	1.91	0.52
5:B1:18:ARG:HD2	5:B1:19:ARG:HG3	1.91	0.52
9:B2:101:BCL:HMB3	9:B3:102:BCL:CHB	2.39	0.52
5:B5:29:ILE:HB	9:B5:102:BCL:H43	1.91	0.52
2:BL:202:LEU:HD21	2:BL:221:GLU:CB	2.35	0.52
2:BL:221:GLU:C	2:BL:223:THR:H	2.12	0.52
2:BL:93:GLY:HA2	2:BL:96:GLN:NE2	2.24	0.52
3:BM:222:THR:HG21	3:BM:252:TRP:NE1	2.22	0.52
3:BM:85:GLN:HG3	3:BM:89:HIS:HD2	1.72	0.52
5:BK:38:ILE:HD13	14:BN:102:CRT:H401	1.91	0.52
5:BO:11:ILE:N	14:BO:103:CRT:H82	2.24	0.52
5:BQ:46:TRP:NE1	5:BQ:47:LEU:HG	2.24	0.52
5:BW:26:ALA:CA	5:BW:29:ILE:HG22	2.39	0.52
5:BY:20:VAL:O	5:BY:24:ILE:HG12	2.09	0.52
5:B7:19:ARG:O	5:B7:23:SER:HB2	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:104:LYS:HB3	1:AC:105:GLU:OE2	2.09	0.52
3:AM:317:TYR:HD1	3:AM:317:TYR:H	1.55	0.52
5:AU:2:PHE:CD1	5:AU:2:PHE:O	2.62	0.52
6:A2:20:ILE:HD13	6:A2:20:ILE:C	2.30	0.52
9:A6:101:BCL:CBB	9:A6:101:BCL:HMB1	2.39	0.52
5:AA:18:ARG:HD2	5:AA:18:ARG:N	2.18	0.52
1:AC:81:VAL:HG11	1:AC:131:PHE:CB	2.34	0.52
6:AJ:17:PHE:CA	6:AJ:20:ILE:HG22	2.39	0.52
2:AL:156:PRO:O	2:AL:157:TYR:CD1	2.62	0.52
2:AL:38:VAL:HA	2:AL:41:CYS:SG	2.49	0.52
3:AM:179:ILE:H	3:AM:179:ILE:CD1	2.22	0.52
3:AM:271:TRP:O	3:AM:272:CYS:C	2.47	0.52
3:AM:64:GLY:HA3	10:AM:403:BPH:H5C1	1.91	0.52
3:AM:56:THR:HA	3:AM:59:LEU:HB3	1.91	0.52
3:AM:63:PHE:HE1	5:AQ:30:VAL:HA	1.75	0.52
5:AQ:44:LEU:HD12	5:AQ:46:TRP:CE3	2.37	0.52
6:AR:20:ILE:HD13	6:AR:20:ILE:O	2.09	0.52
6:AX:40:TRP:O	6:AX:44:PRO:HG3	2.09	0.52
5:AY:30:VAL:O	5:AY:33:LEU:HG	2.08	0.52
14:AW:102:CRT:C7	6:AZ:20:ILE:HD13	2.40	0.52
6:B2:21:PHE:CA	14:B2:102:CRT:C11	2.85	0.52
5:B3:14:ILE:HG21	5:B5:17:PRO:HB2	1.91	0.52
4:BH:5:ILE:HG21	5:BD:42:THR:HG21	1.88	0.52
4:BH:37:GLU:O	4:BH:39:TYR:N	2.42	0.52
2:BL:276:LEU:HD22	2:BL:276:LEU:N	2.21	0.52
3:BM:190:SER:O	3:BM:194:GLY:O	2.27	0.52
3:BM:215:LEU:C	3:BM:217:ALA:N	2.60	0.52
6:BP:10:THR:CB	6:BP:13:GLU:OE1	2.58	0.52
5:BU:15:LEU:HD11	9:BW:102:BCL:H141	1.91	0.52
2:AL:78:PRO:CB	2:AL:92:GLY:HA3	2.31	0.52
2:AL:146:LEU:C	2:AL:148:MET:H	2.12	0.52
4:BH:234:TYR:CE1	4:BH:238:LYS:HE3	2.45	0.52
5:AK:31:LEU:O	5:AK:35:ILE:HG12	2.09	0.52
5:AW:54:SER:CB	5:AW:57:ALA:HB3	2.39	0.52
6:A2:40:TRP:CZ3	6:A2:44:PRO:HA	2.44	0.52
5:A5:8:LEU:CD2	14:A5:103:CRT:H133	2.40	0.52
14:A5:103:CRT:H402	5:A7:38:ILE:HG21	1.92	0.52
5:AA:9:TYR:HB2	6:AB:18:HIS:CD2	2.45	0.52
1:AC:270:TRP:HE3	1:AC:271:TYR:CD1	2.27	0.52
4:AH:45:ARG:HH22	4:AH:100:LEU:HD21	1.74	0.52
2:AL:177:HIS:CG	3:AM:183:LEU:HD22	2.44	0.52
2:AL:181:ALA:O	2:AL:183:MET:N	2.42	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:230:GLY:N	3:AM:51:ILE:HD12	2.25	0.52
9:AL:303:BCL:HMA1	9:AL:303:BCL:C14	2.39	0.52
3:AM:156:PHE:HA	3:AM:159:VAL:CG2	2.39	0.52
3:AM:221:ALA:HA	3:AM:224:LEU:HD12	1.91	0.52
3:AM:290:VAL:HG12	3:AM:291:VAL:H	1.75	0.52
5:AO:46:TRP:CE3	9:AO:102:BCL:H2C	2.44	0.52
6:AP:21:PHE:CD1	6:AP:21:PHE:O	2.62	0.52
5:AS:10:LYS:C	14:AS:104:CRT:H33	2.26	0.52
6:AV:13:GLU:H	6:AV:13:GLU:CD	2.11	0.52
5:AW:12:TRP:HZ2	6:AX:21:PHE:CB	2.21	0.52
5:AW:18:ARG:NH1	5:AW:18:ARG:HG2	2.24	0.52
5:AW:36:HIS:O	5:AW:40:LEU:HB3	2.09	0.52
5:AW:4:MET:HE2	6:AZ:23:GLN:CB	2.40	0.52
9:B6:101:BCL:CBB	9:B6:101:BCL:HMB1	2.39	0.52
6:BB:17:PHE:CE1	14:BB:102:CRT:H9	2.37	0.52
5:BK:45:ASN:HB3	5:BK:49:ASP:HB3	1.92	0.52
5:BK:47:LEU:HD22	5:BK:47:LEU:N	2.24	0.52
3:BM:204:LEU:C	3:BM:206:ILE:H	2.12	0.52
3:BM:249:ALA:HB2	13:BM:405:MQ8:H61	1.92	0.52
2:BL:125:HIS:CE1	3:BM:5:GLN:HG3	2.44	0.52
5:BO:44:LEU:HD12	5:BO:45:ASN:N	2.24	0.52
3:BM:102:TYR:CD1	3:BM:102:TYR:N	2.77	0.52
6:A0:9:LEU:HB3	6:A0:13:GLU:CG	2.38	0.52
1:BC:148:THR:CB	1:BC:322:GLN:HG2	2.39	0.52
14:A1:103:CRT:H342	9:A5:102:BCL:HBA1	1.91	0.52
5:A1:12:TRP:CD1	6:A2:18:HIS:HB2	2.44	0.52
6:A4:42:TYR:HD1	6:A4:42:TYR:C	2.12	0.52
14:A5:103:CRT:H22A	6:A8:17:PHE:CE1	2.44	0.52
1:AC:276:VAL:O	1:AC:277:ARG:C	2.46	0.52
5:AF:8:LEU:HD21	6:AJ:24:SER:HG	1.73	0.52
6:AG:43:ARG:HD3	5:AI:55:TYR:OH	2.09	0.52
2:AL:238:ILE:HG22	2:AL:239:HIS:N	2.25	0.52
3:AM:134:TYR:O	3:AM:144:GLN:NE2	2.40	0.52
3:AM:214:LEU:CD2	3:AM:214:LEU:C	2.78	0.52
5:AK:11:ILE:HG12	14:AP:102:CRT:H81	1.91	0.52
5:AQ:52:PRO:HG2	5:AQ:53:VAL:H	1.74	0.52
5:AS:10:LYS:CB	14:AS:104:CRT:H1M2	2.39	0.52
9:BZ:101:BCL:HBB3	9:B1:102:BCL:C1C	2.39	0.52
5:B1:11:ILE:CG2	5:B1:15:LEU:HD12	2.39	0.52
5:B5:21:LEU:O	5:B5:25:VAL:HG23	2.10	0.52
5:B7:36:HIS:CE1	9:B7:103:BCL:NA	2.76	0.52
6:B8:34:ILE:O	6:B8:37:LEU:HB3	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:26:TRP:HE3	4:BH:97:GLY:O	1.92	0.52
2:BL:206:VAL:HG23	2:BL:207:THR:N	2.25	0.52
3:BM:122:LEU:O	3:BM:157:TYR:OH	2.27	0.52
3:BM:177:PHE:CD1	14:BM:406:CRT:H19	2.44	0.52
6:BX:21:PHE:HD1	6:BX:22:MET:N	2.07	0.52
9:BZ:101:BCL:CBB	9:BZ:101:BCL:HMB1	2.39	0.52
4:AH:106:PRO:HA	4:AH:109:SER:OG	2.09	0.52
5:BD:50:ASN:CG	5:BD:51:ILE:H	2.11	0.52
6:AJ:10:THR:HB	6:AJ:13:GLU:CD	2.29	0.52
4:BH:114:ALA:HB2	4:BH:245:GLY:CA	2.37	0.52
6:B6:10:THR:HG22	6:B6:11:ASP:H	1.74	0.52
9:A0:102:BCL:H141	9:A0:102:BCL:CMB	2.40	0.52
9:AA:101:BCL:HBB1	9:A0:102:BCL:HMC3	1.92	0.52
6:A0:40:TRP:HA	6:A0:40:TRP:CE3	2.45	0.52
5:A3:8:LEU:HD21	6:A6:24:SER:OG	2.10	0.52
9:A8:101:BCL:OBB	9:A8:101:BCL:HHC	2.10	0.52
9:AA:101:BCL:HMD1	6:AB:36:HIS:ND1	2.24	0.52
4:AH:77:VAL:HG23	4:AH:80:ARG:HB3	1.90	0.52
6:AG:46:LEU:CB	6:AJ:42:TYR:OH	2.56	0.52
2:AL:124:PHE:O	2:AL:127:PRO:HD2	2.10	0.52
3:AM:124:LEU:O	3:AM:127:LEU:N	2.43	0.52
3:AM:214:LEU:HD22	3:AM:215:LEU:HD12	1.91	0.52
3:AM:244:ALA:C	3:AM:246:GLU:H	2.13	0.52
6:AP:36:HIS:HE1	9:AP:101:BCL:C1A	2.23	0.52
5:AQ:48:ASP:O	5:AQ:49:ASP:CB	2.55	0.52
5:AS:42:THR:CG2	5:AU:47:LEU:HB3	2.35	0.52
5:AU:36:HIS:O	5:AU:40:LEU:CB	2.57	0.52
1:BC:135:ARG:O	1:BC:136:ALA:C	2.47	0.52
1:BC:245:VAL:HG21	1:BC:249:PHE:CG	2.45	0.52
5:BD:12:TRP:HA	5:BD:12:TRP:CE3	2.45	0.52
5:BF:43:ASP:O	5:BF:44:LEU:HG	2.10	0.52
5:BF:43:ASP:OD1	5:BF:44:LEU:HD23	2.09	0.52
9:BL:301:BCL:CHC	9:BM:402:BCL:CHC	2.88	0.52
3:BM:120:LEU:HB2	14:BM:406:CRT:H35	1.91	0.52
3:BM:241:ARG:HG2	3:BM:242:GLY:N	2.25	0.52
2:BL:240:ARG:CZ	3:BM:7:ILE:O	2.57	0.52
5:BS:9:TYR:HB2	6:BT:15:LYS:HA	1.91	0.52
9:BW:102:BCL:CAD	9:BX:101:BCL:CAD	2.87	0.52
5:BY:18:ARG:HH11	5:BY:18:ARG:HG2	1.75	0.52
6:AR:13:GLU:CD	6:AR:13:GLU:H	2.13	0.52
5:AW:14:ILE:HG21	5:AY:21:LEU:CD1	2.39	0.52
5:BF:33:LEU:O	5:BF:37:MET:HG2	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:A7:4:MET:HA	6:A0:23:GLN:OE1	2.10	0.52
6:A8:28:TRP:HA	6:A8:31:LEU:HB2	1.92	0.52
6:A8:38:LEU:HD23	6:A8:38:LEU:O	2.10	0.52
5:A9:44:LEU:O	5:A9:46:TRP:N	2.39	0.52
6:AB:32:VAL:HG21	9:AB:101:BCL:CBA	2.27	0.52
1:AC:270:TRP:O	1:AC:274:ARG:CD	2.57	0.52
1:AC:94:MET:SD	7:AC:501:HEM:NB	2.82	0.52
4:AH:136:MET:HG2	4:AH:172:VAL:HG13	1.90	0.52
5:AF:14:ILE:HD13	6:AJ:17:PHE:CE2	2.45	0.52
3:AM:61:ILE:HD12	15:AM:409:PEF:H191	1.92	0.52
5:AO:11:ILE:CD1	14:AR:102:CRT:H132	2.39	0.52
6:AR:34:ILE:HD13	6:AR:34:ILE:O	2.10	0.52
5:AS:27:PHE:O	5:AS:31:LEU:HB3	2.10	0.52
5:AW:9:TYR:C	5:AW:11:ILE:H	2.13	0.52
9:B1:102:BCL:CHD	9:B2:101:BCL:HMD2	2.38	0.52
5:B5:30:VAL:CG1	5:B5:31:LEU:H	2.16	0.52
5:B5:44:LEU:HD23	5:B5:44:LEU:H	1.75	0.52
5:B3:11:ILE:CG1	14:B7:102:CRT:C8	2.81	0.52
9:B8:101:BCL:CMA	9:B9:102:BCL:HMA1	2.17	0.52
5:BA:46:TRP:O	6:B0:46:LEU:OXT	2.26	0.52
1:BC:110:CYS:O	1:BC:111:HIS:ND1	2.43	0.52
14:BB:102:CRT:C2M	5:BD:37:MET:CE	2.86	0.52
4:BH:5:ILE:CD1	5:BF:47:LEU:HD12	2.40	0.52
6:BG:21:PHE:CZ	9:BI:102:BCL:H202	2.45	0.52
2:BL:12:VAL:CG2	2:BL:13:ARG:H	2.22	0.52
2:BL:221:GLU:O	2:BL:223:THR:N	2.42	0.52
2:BL:237:ALA:HA	2:BL:240:ARG:CD	2.40	0.52
2:BL:267:GLY:O	2:BL:270:GLU:HB2	2.09	0.52
3:BM:165:PRO:CB	3:BM:174:ALA:HB2	2.39	0.52
3:BM:228:ARG:HB2	3:BM:229:PHE:CD1	2.45	0.52
5:BW:16:ASP:HB2	5:BW:19:ARG:CD	2.39	0.52
9:BX:101:BCL:HMB1	9:BX:101:BCL:CBB	2.40	0.52
5:BY:25:VAL:HG11	9:BY:102:BCL:H202	1.91	0.52
6:BZ:42:TYR:CE1	6:BZ:43:ARG:HG3	2.45	0.52
6:B2:38:LEU:HD23	6:B2:38:LEU:C	2.29	0.52
5:AS:53:VAL:O	5:AS:55:TYR:N	2.41	0.52
4:AH:106:PRO:HA	4:AH:109:SER:CB	2.39	0.52
1:BC:157:ARG:NH1	1:BC:318:LEU:CD2	2.73	0.52
1:AC:164:TYR:O	1:AC:309:THR:HG23	2.10	0.52
5:BU:42:THR:C	5:BW:48:ASP:HB3	2.30	0.52
3:BM:121:PHE:N	3:BM:121:PHE:CD1	2.77	0.52
5:AF:27:PHE:CA	5:AF:30:VAL:HG12	2.37	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AM:268:TRP:CD1	4:AH:30:LEU:HD22	2.45	0.52
2:AL:10:TYR:CE2	3:AM:246:GLU:HG2	2.45	0.52
2:AL:171:TYR:O	2:AL:173:PHE:N	2.41	0.52
2:AL:243:LEU:HD13	3:AM:221:ALA:HB2	1.92	0.52
3:AM:204:LEU:C	3:AM:206:ILE:H	2.12	0.52
9:AN:101:BCL:C2B	9:AO:102:BCL:C2B	2.88	0.52
5:AO:12:TRP:CD1	6:AP:18:HIS:HB2	2.45	0.52
5:AO:22:VAL:O	5:AO:25:VAL:HB	2.10	0.52
6:AX:29:PHE:HZ	14:AX:102:CRT:H242	1.73	0.52
9:AY:102:BCL:CBB	9:AY:102:BCL:HMB1	2.40	0.52
9:B2:101:BCL:CHC	9:B3:102:BCL:HBB3	2.40	0.52
5:B5:36:HIS:CE1	9:B5:102:BCL:NA	2.77	0.52
1:BC:24:GLU:OE2	2:BL:266:ARG:NH2	2.43	0.52
1:BC:97:VAL:HG13	7:BC:502:HEM:HMB2	1.91	0.52
6:BG:24:SER:O	6:BG:27:ALA:HB3	2.10	0.52
4:BH:35:LYS:HZ1	4:BH:57:GLY:HA3	1.74	0.52
2:BL:188:PHE:HD2	2:BL:249:ALA:N	2.08	0.52
2:BL:246:ALA:HB1	10:BL:302:BPH:HBC3	1.91	0.52
2:BL:52:TRP:HA	2:BL:52:TRP:CE3	2.45	0.52
3:BM:161:GLY:O	3:BM:163:ILE:N	2.43	0.52
3:BM:254:TRP:N	3:BM:254:TRP:CD1	2.76	0.52
3:BM:34:PRO:HA	3:BM:48:ILE:O	2.09	0.52
3:BM:59:LEU:HD11	5:BQ:29:ILE:CG2	2.36	0.52
5:BO:34:LEU:O	5:BO:38:ILE:HG23	2.08	0.52
5:BY:45:ASN:O	5:BY:48:ASP:O	2.26	0.52
2:BL:218:SER:C	2:BL:220:HIS:H	2.12	0.52
4:BH:123:CYS:SG	4:BH:231:VAL:O	2.67	0.52
5:BU:44:LEU:HD22	6:BV:43:ARG:CD	2.40	0.52
3:AM:301:HIS:NE2	4:AH:10:ASP:OD2	2.43	0.52
1:AC:102:SER:C	1:AC:104:LYS:H	2.12	0.52
6:B8:7:THR:HG23	6:B8:8:GLY:N	2.24	0.52
5:A9:44:LEU:H	5:A9:44:LEU:CD1	2.22	0.52
5:A9:44:LEU:HD22	5:A9:46:TRP:HB3	1.91	0.52
5:AI:17:PRO:O	5:AI:21:LEU:HB3	2.10	0.52
2:AL:279:PRO:HG3	5:AY:41:SER:HB2	1.91	0.52
3:AM:250:LEU:O	3:AM:254:TRP:CD1	2.62	0.52
9:AM:401:BCL:HMD2	9:AM:402:BCL:HBB3	1.91	0.52
6:AP:28:TRP:HA	6:AP:31:LEU:HD12	1.91	0.52
5:AQ:32:GLY:HA2	9:AR:101:BCL:O1D	2.10	0.52
5:AS:9:TYR:HA	6:AT:18:HIS:CB	2.38	0.52
9:B3:102:BCL:HBC2	9:B4:101:BCL:HMD2	1.92	0.52
6:B8:23:GLN:HG3	6:B8:24:SER:N	2.24	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BA:10:LYS:O	5:BA:13:LEU:HD13	2.10	0.52
5:BA:55:TYR:HE1	5:B9:44:LEU:CB	2.12	0.52
6:BE:21:PHE:C	6:BE:21:PHE:CD1	2.83	0.52
6:BE:17:PHE:CE1	6:BE:21:PHE:HB2	2.44	0.52
6:BG:43:ARG:HD3	5:BI:55:TYR:CZ	2.44	0.52
3:BM:214:LEU:HD22	3:BM:215:LEU:HD12	1.92	0.52
9:BP:101:BCL:HHC	9:BP:101:BCL:OBB	2.10	0.52
6:B2:38:LEU:HD23	6:B2:38:LEU:O	2.10	0.52
4:AH:102:PRO:CG	4:AH:106:PRO:HB3	2.40	0.52
4:BH:123:CYS:SG	4:BH:230:GLN:HB2	2.50	0.52
5:AW:42:THR:HB	5:AY:48:ASP:CB	2.40	0.52
6:A0:24:SER:HB2	14:A0:101:CRT:H183	1.91	0.52
5:A1:10:LYS:HD2	6:A4:20:ILE:HB	1.91	0.52
6:A4:20:ILE:C	6:A4:20:ILE:HD13	2.30	0.52
5:A7:44:LEU:O	5:A7:44:LEU:HD13	2.09	0.52
5:AA:27:PHE:HE1	5:AD:29:ILE:HD12	1.72	0.52
5:AF:11:ILE:CD1	5:AF:14:ILE:HD11	2.37	0.52
9:AJ:101:BCL:C2B	9:AK:102:BCL:C2B	2.88	0.52
2:AL:202:LEU:O	2:AL:205:SER:HB2	2.10	0.52
9:AK:102:BCL:HMD1	6:AN:36:HIS:HD2	1.74	0.52
6:AT:13:GLU:CD	6:AT:13:GLU:H	2.12	0.52
6:AT:45:TRP:CD1	6:AT:46:LEU:N	2.78	0.52
5:AU:13:LEU:HD13	6:AV:9:LEU:O	2.10	0.52
9:AX:101:BCL:HHC	9:AX:101:BCL:OBB	2.09	0.52
6:AX:17:PHE:CD1	14:AX:102:CRT:H6	2.44	0.52
5:AY:30:VAL:O	5:AY:31:LEU:C	2.47	0.52
5:AY:43:ASP:HA	5:A1:48:ASP:CA	2.40	0.52
6:B0:40:TRP:HA	6:B0:40:TRP:CE3	2.44	0.52
5:B1:32:GLY:N	9:B2:101:BCL:HED2	2.25	0.52
6:B2:13:GLU:HA	14:B2:102:CRT:H1M3	1.91	0.52
6:B2:17:PHE:CG	14:B2:102:CRT:H6	2.45	0.52
6:B2:21:PHE:HD1	14:B2:102:CRT:C15	2.21	0.52
5:B5:18:ARG:HB2	5:B5:19:ARG:HH22	1.74	0.52
1:BC:265:LYS:O	1:BC:268:THR:HB	2.10	0.52
14:BA:102:CRT:H372	5:BD:35:ILE:HD11	1.92	0.52
14:BF:103:CRT:H6	6:BJ:17:PHE:CZ	2.44	0.52
2:BL:195:ALA:HA	2:BL:198:MET:HE3	1.91	0.52
2:BL:48:LEU:O	2:BL:51:VAL:HB	2.10	0.52
9:BN:101:BCL:HBB3	9:BO:102:BCL:C4B	2.39	0.52
6:BN:45:TRP:CD1	6:BN:46:LEU:HG	2.45	0.52
14:BS:103:CRT:H6	6:BT:17:PHE:HD2	1.75	0.52
5:BS:26:ALA:O	5:BS:29:ILE:HG22	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:176:SER:HA	5:BU:48:ASP:OD2	2.09	0.52
5:BK:9:TYR:C	5:BK:9:TYR:CD1	2.83	0.52
5:BS:51:ILE:HA	5:BS:52:PRO:C	2.30	0.52
6:AE:9:LEU:HD13	6:AE:13:GLU:HG2	1.91	0.52
5:A9:36:HIS:HE1	9:A0:102:BCL:OBD	1.92	0.52
6:A0:29:PHE:N	6:A0:29:PHE:HD1	2.08	0.52
6:A2:28:TRP:O	6:A2:32:VAL:HG23	2.10	0.52
6:A4:42:TYR:CD1	6:A4:42:TYR:C	2.83	0.52
5:A7:35:ILE:O	5:A7:38:ILE:HG22	2.10	0.52
5:AF:44:LEU:O	5:AF:46:TRP:N	2.37	0.52
4:AH:63:ASP:C	4:AH:79:PRO:HD2	2.30	0.52
5:AI:17:PRO:O	5:AI:21:LEU:CB	2.58	0.52
5:AI:31:LEU:HD12	5:AI:34:LEU:HD23	1.91	0.52
5:AF:50:ASN:HB3	5:AI:56:GLN:HA	1.91	0.52
2:AL:131:SER:O	2:AL:132:PHE:C	2.47	0.52
2:AL:240:ARG:NH2	3:AM:6:ASN:C	2.63	0.52
2:AL:273:ASN:O	2:AL:275:TRP:N	2.43	0.52
2:AL:186:ILE:HG12	9:AL:301:BCL:HMB3	1.92	0.52
3:AM:130:TRP:HA	3:AM:150:PHE:CD2	2.45	0.52
3:AM:234:GLU:O	3:AM:238:ILE:HG12	2.10	0.52
2:AL:47:VAL:HA	9:AM:401:BCL:H191	1.90	0.52
3:AM:177:PHE:HD1	14:AM:406:CRT:H16	1.74	0.52
5:AS:33:LEU:O	5:AS:37:MET:CB	2.58	0.52
5:AS:34:LEU:HD13	15:AS:101:PEF:C44	2.36	0.52
5:AW:36:HIS:CE1	9:AW:101:BCL:NA	2.77	0.52
14:AX:102:CRT:H2M1	5:AY:37:MET:N	2.25	0.52
6:BB:22:MET:C	6:BB:26:TYR:CE1	2.82	0.52
1:BC:243:LEU:HD12	1:BC:243:LEU:N	2.23	0.52
1:BC:272:ALA:C	1:BC:274:ARG:H	2.13	0.52
1:BC:326:ASP:O	1:BC:327:TYR:CD1	2.62	0.52
9:BF:102:BCL:OBB	9:BF:102:BCL:HHC	2.08	0.52
4:BH:119:ARG:NE	4:BH:237:ASP:OD2	2.43	0.52
9:BG:101:BCL:CHC	9:BI:102:BCL:HBB3	2.40	0.52
6:BJ:33:VAL:O	6:BJ:37:LEU:HD23	2.10	0.52
3:BM:267:ARG:NH1	4:BH:33:GLU:OE1	2.43	0.52
3:BM:215:LEU:HD21	13:BM:405:MQ8:H193	1.91	0.52
6:BP:7:THR:HG23	6:BP:8:GLY:N	2.24	0.52
1:BC:153:TYR:HB3	1:BC:323:MET:CE	2.34	0.52
5:AW:19:ARG:NH1	5:AY:22:VAL:HG21	2.24	0.52
5:AD:16:ASP:OD2	5:AD:18:ARG:CG	2.55	0.52
4:AH:189:ASN:HB3	4:AH:191:LYS:CG	2.40	0.52
5:A5:39:VAL:C	5:A5:41:SER:H	2.12	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AT:38:LEU:C	6:AT:38:LEU:HD23	2.30	0.52
9:A0:102:BCL:C14	9:A0:102:BCL:CMB	2.84	0.51
9:AA:101:BCL:C1B	9:A0:102:BCL:HMB3	2.39	0.51
5:A7:35:ILE:HA	5:A7:38:ILE:HG22	1.91	0.51
5:AA:11:ILE:HD11	5:AD:21:LEU:CD2	2.40	0.51
2:AL:107:ILE:O	2:AL:111:LEU:HG	2.09	0.51
2:AL:233:ILE:HG12	2:AL:237:ALA:CB	2.40	0.51
3:AM:59:LEU:HD11	5:AQ:29:ILE:HG21	1.91	0.51
5:AW:33:LEU:O	5:AW:37:MET:HB2	2.11	0.51
3:AM:84:PHE:CE2	5:AW:37:MET:HG2	2.44	0.51
5:BA:12:TRP:O	6:BB:9:LEU:HD22	2.09	0.51
1:BC:233:PHE:O	1:BC:234:GLY:C	2.48	0.51
1:BC:253:THR:HA	1:BC:256:PHE:CE1	2.45	0.51
2:BL:199:HIS:CE1	2:BL:239:HIS:CE1	2.98	0.51
2:BL:89:LEU:H	2:BL:89:LEU:CD1	2.23	0.51
3:BM:178:GLY:CA	3:BM:181:PRO:HG2	2.41	0.51
5:BQ:32:GLY:HA2	9:BQ:104:BCL:O1D	2.10	0.51
5:BQ:50:ASN:CG	5:BQ:51:ILE:H	2.12	0.51
6:BT:22:MET:O	6:BT:26:TYR:HD1	1.93	0.51
9:BU:102:BCL:CBC	9:BU:102:BCL:CHD	2.88	0.51
3:BM:25:LYS:O	5:BO:18:ARG:NH2	2.43	0.51
4:BH:120:PRO:O	4:BH:234:TYR:N	2.40	0.51
1:AC:135:ARG:O	1:AC:136:ALA:C	2.49	0.51
3:BM:114:TRP:CZ2	5:BS:37:MET:SD	3.03	0.51
6:AV:34:ILE:O	6:AV:37:LEU:HB2	2.09	0.51
6:BT:44:PRO:O	5:BU:55:TYR:OH	2.28	0.51
3:AM:196:LEU:C	3:AM:198:TYR:N	2.62	0.51
6:B8:38:LEU:O	6:B8:38:LEU:HD23	2.10	0.51
5:A7:10:LYS:HB3	14:A0:101:CRT:C8	2.40	0.51
5:A5:14:ILE:CD1	14:A5:103:CRT:H41	2.41	0.51
5:A5:10:LYS:HB2	14:A5:103:CRT:H83	1.90	0.51
2:AL:86:MET:HG3	5:A7:37:MET:HG3	1.92	0.51
9:A7:103:BCL:C1D	9:A8:101:BCL:CMD	2.87	0.51
6:A8:34:ILE:O	6:A8:37:LEU:HB3	2.09	0.51
5:AA:29:ILE:O	5:AA:33:LEU:HD13	2.10	0.51
1:AC:100:TRP:CB	1:AC:152:CYS:HB2	2.39	0.51
5:AA:27:PHE:CE1	5:AD:29:ILE:HD12	2.44	0.51
4:AH:100:LEU:HB2	4:AH:111:PHE:CZ	2.45	0.51
4:AH:259:LEU:HD21	5:A5:19:ARG:HB3	1.93	0.51
6:AJ:21:PHE:HD1	6:AJ:21:PHE:C	2.13	0.51
2:AL:166:VAL:HG13	9:AL:301:BCL:CHD	2.41	0.51
2:AL:259:ILE:HA	2:AL:263:PHE:HB2	1.92	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:273:ASN:C	2:AL:275:TRP:N	2.63	0.51
3:AM:115:TRP:CD1	3:AM:177:PHE:HD2	2.27	0.51
5:AS:34:LEU:CA	15:AS:101:PEF:C44	2.89	0.51
5:AU:42:THR:HB	5:AW:48:ASP:HB3	1.92	0.51
5:AY:13:LEU:CD2	6:AZ:14:ALA:HB1	2.37	0.51
5:B3:37:MET:HA	5:B3:40:LEU:HD12	1.91	0.51
5:B5:18:ARG:NH1	5:B5:18:ARG:HG3	2.23	0.51
5:B5:17:PRO:O	5:B5:21:LEU:HB2	2.09	0.51
14:B5:103:CRT:H22A	6:B8:17:PHE:CE1	2.46	0.51
1:BC:265:LYS:H	1:BC:265:LYS:HD2	1.75	0.51
2:BL:126:VAL:HB	2:BL:127:PRO:CD	2.40	0.51
3:BM:228:ARG:CD	3:BM:228:ARG:H	2.23	0.51
3:BM:276:THR:C	3:BM:278:ILE:H	2.13	0.51
6:BN:34:ILE:HD13	6:BN:34:ILE:C	2.29	0.51
6:BV:45:TRP:O	6:BV:46:LEU:HB2	2.10	0.51
5:BY:36:HIS:O	5:BY:40:LEU:HB3	2.11	0.51
5:AI:20:VAL:O	5:AI:24:ILE:HG12	2.09	0.51
3:BM:102:TYR:O	3:BM:104:LEU:N	2.44	0.51
1:AC:138:ASN:HB3	1:AC:331:TYR:CE1	2.45	0.51
5:AK:33:LEU:HD12	5:AK:33:LEU:C	2.30	0.51
1:AC:102:SER:O	1:AC:104:LYS:N	2.44	0.51
3:BM:121:PHE:HD1	3:BM:121:PHE:N	2.07	0.51
1:AC:35:TYR:CZ	3:AM:308:PRO:HG2	2.46	0.51
5:B7:13:LEU:O	6:B8:7:THR:HB	2.10	0.51
1:AC:85:LEU:HD22	1:AC:89:GLU:CG	2.40	0.51
9:A1:102:BCL:C8	14:A2:102:CRT:H182	2.39	0.51
14:AA:102:CRT:H401	5:AD:38:ILE:HD13	1.91	0.51
5:AA:13:LEU:HA	6:AB:9:LEU:HD22	1.92	0.51
5:AA:50:ASN:OD1	5:AA:51:ILE:HG12	2.10	0.51
1:AC:199:PRO:HG2	1:AC:200:LEU:HD12	1.92	0.51
9:AD:102:BCL:HAC2	9:AE:101:BCL:HAC1	1.93	0.51
5:AD:50:ASN:HB3	5:AF:56:GLN:HA	1.92	0.51
4:AH:171:TRP:HE1	4:AH:183:GLU:HG3	1.76	0.51
2:AL:237:ALA:CA	2:AL:240:ARG:HG3	2.38	0.51
3:AM:166:VAL:HG22	3:AM:171:TRP:HZ3	1.75	0.51
3:AM:208:PHE:HZ	3:AM:275:LEU:HD13	1.72	0.51
3:AM:80:HIS:O	3:AM:82:ASP:N	2.44	0.51
5:AS:12:TRP:HE1	6:AT:18:HIS:CB	2.23	0.51
5:B1:48:ASP:O	5:B1:49:ASP:HB3	2.10	0.51
5:B5:43:ASP:OD1	5:B7:47:LEU:O	2.28	0.51
2:BL:177:HIS:CD2	9:BL:301:BCL:CMC	2.90	0.51
3:BM:170:SER:HB3	3:BM:173:LYS:HB2	1.92	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:BM:84:PHE:CG	5:BW:37:MET:SD	3.04	0.51
3:BM:83:VAL:HA	3:BM:86:PHE:CB	2.40	0.51
14:BN:102:CRT:H342	9:BO:102:BCL:CBA	2.29	0.51
5:BW:44:LEU:CD1	5:BY:56:GLN:HB3	2.39	0.51
4:AH:106:PRO:HB2	4:AH:249:TYR:CE1	2.44	0.51
2:AL:150:ALA:O	2:AL:153:HIS:HB3	2.09	0.51
5:BY:18:ARG:HD2	5:BY:19:ARG:N	2.25	0.51
5:A3:12:TRP:HA	5:A3:12:TRP:CE3	2.45	0.51
5:BQ:17:PRO:O	5:BQ:21:LEU:HG	2.10	0.51
6:BX:34:ILE:HG23	6:BX:35:ALA:N	2.26	0.51
5:AY:7:ASN:O	6:A2:20:ILE:HG12	2.10	0.51
14:A7:102:CRT:H342	9:A7:103:BCL:CBA	2.40	0.51
5:A9:44:LEU:CD2	5:A9:46:TRP:HB3	2.41	0.51
5:AA:13:LEU:O	6:AB:9:LEU:CD1	2.58	0.51
2:AL:134:ILE:O	2:AL:137:TYR:HB3	2.10	0.51
2:AL:140:LEU:HD11	9:AL:301:BCL:OBD	2.10	0.51
2:AL:178:TYR:CE1	3:AM:180:PHE:CD2	2.98	0.51
3:AM:203:MET:HB2	9:AM:401:BCL:O2D	2.09	0.51
1:AC:173:LYS:CB	3:AM:80:HIS:HB2	2.40	0.51
5:AU:22:VAL:HG13	5:AU:23:SER:H	1.74	0.51
9:AX:101:BCL:CHC	9:AY:102:BCL:CBB	2.88	0.51
5:AY:42:THR:O	5:AY:43:ASP:C	2.48	0.51
5:AY:9:TYR:CD1	6:AZ:15:LYS:HG3	2.45	0.51
5:AY:9:TYR:OH	5:AY:10:LYS:HE3	2.10	0.51
5:B1:18:ARG:CD	5:B1:19:ARG:HG3	2.41	0.51
5:B3:36:HIS:CD2	9:B4:101:BCL:CMD	2.93	0.51
5:B1:10:LYS:HD2	6:B4:20:ILE:HB	1.93	0.51
5:B9:44:LEU:CD2	5:B9:46:TRP:HB3	2.40	0.51
1:BC:167:VAL:CG2	1:BC:297:GLY:HA3	2.40	0.51
4:BH:19:PHE:C	4:BH:21:LEU:H	2.14	0.51
2:BL:196:LEU:CD1	3:BM:269:ALA:HB1	2.31	0.51
3:BM:260:VAL:HG13	13:BM:405:MQ8:H142	1.91	0.51
5:BS:53:VAL:O	5:BS:55:TYR:N	2.38	0.51
5:BU:11:ILE:HG12	14:BU:103:CRT:H83	1.89	0.51
5:BU:2:PHE:CA	5:BU:5:ASN:HD22	2.23	0.51
5:BW:16:ASP:CA	5:BW:19:ARG:HE	2.24	0.51
3:BM:104:LEU:HD21	3:BM:169:GLY:CA	2.41	0.51
5:AI:14:ILE:CG2	5:AK:18:ARG:HB3	2.40	0.51
3:AM:199:ASN:HB2	3:AM:294:TRP:CD2	2.46	0.51
6:BX:10:THR:H	6:BX:13:GLU:CD	2.13	0.51
5:BU:20:VAL:O	5:BU:24:ILE:HG12	2.10	0.51
1:BC:184:ASN:HD21	3:BM:96:GLU:HG2	1.75	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AB:38:LEU:C	6:AB:38:LEU:HD23	2.31	0.51
5:A9:12:TRP:NE1	6:A0:17:PHE:CE1	2.78	0.51
6:A2:44:PRO:HG2	5:A3:52:PRO:HB2	1.93	0.51
9:A7:103:BCL:OBB	9:A7:103:BCL:HHC	2.10	0.51
5:A7:7:ASN:HB2	5:A7:10:LYS:HZ2	1.73	0.51
5:AA:27:PHE:CA	5:AA:30:VAL:HG12	2.39	0.51
4:AH:202:PHE:HB3	4:AH:204:LYS:HZ2	1.75	0.51
3:AM:114:TRP:HZ3	3:AM:117:MET:HE2	1.76	0.51
3:AM:159:VAL:CG1	3:AM:285:LEU:HD13	2.38	0.51
9:AP:101:BCL:H2A	9:AP:101:BCL:O1D	2.11	0.51
5:AU:31:LEU:O	5:AU:35:ILE:HG12	2.11	0.51
5:AY:36:HIS:O	5:AY:40:LEU:HB3	2.11	0.51
5:AY:38:ILE:CD1	5:AY:39:VAL:HG23	2.40	0.51
5:AY:45:ASN:O	5:AY:47:LEU:N	2.44	0.51
6:B4:20:ILE:C	6:B4:20:ILE:HD13	2.30	0.51
9:B9:102:BCL:CBB	9:B9:102:BCL:HMB1	2.40	0.51
2:BL:13:ARG:HA	4:BH:99:PRO:HB2	1.91	0.51
6:BJ:37:LEU:HD13	9:BJ:101:BCL:H193	1.91	0.51
2:BL:184:LEU:HB2	2:BL:252:TRP:HE1	1.76	0.51
5:BO:50:ASN:HD21	6:BP:43:ARG:HH22	1.51	0.51
9:BQ:103:BCL:C3D	6:BR:35:ALA:HB1	2.41	0.51
5:BY:9:TYR:C	5:BY:9:TYR:CD1	2.84	0.51
3:BM:12:GLN:C	4:BH:145:ALA:HB2	2.30	0.51
2:BL:22:LEU:HB2	5:B7:19:ARG:CG	2.41	0.51
1:AC:157:ARG:NE	1:AC:312:GLN:NE2	2.58	0.51
5:AD:35:ILE:HA	5:AD:38:ILE:HG22	1.93	0.51
9:AF:102:BCL:HAC2	9:AG:101:BCL:HBC1	1.92	0.51
4:AH:193:VAL:HG23	4:AH:193:VAL:O	2.11	0.51
5:AI:43:ASP:O	5:AI:44:LEU:HB3	2.11	0.51
5:AK:9:TYR:HA	6:AN:18:HIS:CG	2.45	0.51
2:AL:116:ILE:O	2:AL:118:ARG:N	2.44	0.51
2:AL:6:PHE:CE2	3:AM:246:GLU:HA	2.45	0.51
6:AP:36:HIS:CE1	9:AP:101:BCL:C1A	2.93	0.51
6:AP:20:ILE:HG23	6:AP:21:PHE:N	2.24	0.51
6:AP:24:SER:O	6:AP:27:ALA:HB3	2.11	0.51
6:AT:12:ASP:O	6:AT:15:LYS:HD2	2.10	0.51
5:AW:32:GLY:O	5:AW:35:ILE:HG22	2.10	0.51
4:BH:258:LEU:HG	5:B5:19:ARG:HE	1.76	0.51
5:B5:43:ASP:CB	5:B7:47:LEU:HB3	2.40	0.51
4:BH:58:PHE:N	4:BH:59:PRO:HD2	2.25	0.51
3:BM:115:TRP:CD1	3:BM:177:PHE:HD2	2.28	0.51
6:BV:34:ILE:O	6:BV:37:LEU:HB2	2.11	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:BX:36:HIS:CE1	9:BX:101:BCL:C1B	2.93	0.51
5:BY:52:PRO:HD2	5:BY:55:TYR:HE2	1.75	0.51
6:BX:46:LEU:HD22	6:BZ:42:TYR:CE2	2.46	0.51
5:A7:19:ARG:O	5:A7:23:SER:CB	2.58	0.51
5:BS:49:ASP:CG	5:BS:50:ASN:N	2.64	0.51
6:AX:34:ILE:C	6:AX:34:ILE:HD13	2.31	0.51
5:A3:35:ILE:HA	5:A3:38:ILE:HG22	1.91	0.51
6:A6:46:LEU:O	5:A7:46:TRP:HB2	2.11	0.51
5:AA:14:ILE:C	5:AA:15:LEU:HD22	2.31	0.51
5:AA:49:ASP:HB2	5:AD:56:GLN:O	2.10	0.51
9:AA:101:BCL:HBC2	9:AB:101:BCL:HHD	1.93	0.51
1:AC:225:SER:OG	1:AC:227:LYS:HB3	2.10	0.51
4:AH:137:ARG:HG2	4:AH:137:ARG:HH11	1.75	0.51
4:AH:195:LEU:HD12	4:AH:196:PRO:CD	2.31	0.51
5:AI:40:LEU:HD12	5:AI:40:LEU:N	2.26	0.51
2:AL:111:LEU:O	2:AL:114:VAL:N	2.43	0.51
2:AL:115:GLU:O	2:AL:118:ARG:HB2	2.11	0.51
2:AL:116:ILE:HD11	3:AM:254:TRP:O	2.10	0.51
2:AL:225:PHE:O	2:AL:229:VAL:HG22	2.10	0.51
9:AL:301:BCL:H13	9:AL:301:BCL:H203	1.92	0.51
2:AL:94:LEU:C	2:AL:94:LEU:HD23	2.30	0.51
3:AM:34:PRO:HD3	3:AM:50:PRO:HB3	1.92	0.51
9:AK:102:BCL:CED	6:AN:31:LEU:HB3	2.40	0.51
6:AN:41:LEU:CD2	6:AN:41:LEU:C	2.69	0.51
5:AO:12:TRP:CZ3	6:AP:17:PHE:HE2	2.29	0.51
6:AP:44:PRO:HG2	5:AQ:52:PRO:HG3	1.92	0.51
5:AQ:27:PHE:HD1	5:AQ:28:GLN:HE21	1.59	0.51
6:AR:46:LEU:HB3	6:AT:42:TYR:HH	1.72	0.51
5:AU:50:ASN:CB	5:AW:59:GLY:HA3	2.41	0.51
9:B5:102:BCL:OBD	6:B6:32:VAL:HG23	2.10	0.51
5:B7:44:LEU:HD23	6:B8:43:ARG:NH1	2.25	0.51
9:B8:101:BCL:OBB	9:B8:101:BCL:HHC	2.11	0.51
5:B9:5:ASN:HA	5:B9:8:LEU:HG	1.92	0.51
5:B9:9:TYR:HA	6:B0:18:HIS:CG	2.46	0.51
5:BF:44:LEU:CB	6:BG:43:ARG:HH11	2.14	0.51
2:BL:184:LEU:HB2	2:BL:252:TRP:NE1	2.25	0.51
2:BL:238:ILE:CG2	2:BL:239:HIS:N	2.73	0.51
3:BM:176:PRO:CD	3:BM:185:TRP:HB2	2.41	0.51
3:BM:176:PRO:HD3	3:BM:185:TRP:CD1	2.45	0.51
2:BL:26:TRP:HZ2	3:BM:254:TRP:CZ3	2.28	0.51
3:BM:260:VAL:HG12	4:BH:34:ASP:CB	2.37	0.51
3:BM:277:VAL:HG22	10:BM:403:BPH:HBC1	1.92	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:BN:101:BCL:HMB1	9:BN:101:BCL:CBB	2.41	0.51
6:BR:43:ARG:NH1	5:BS:55:TYR:CE1	2.79	0.51
9:BS:102:BCL:H111	9:BS:102:BCL:H192	1.93	0.51
5:BU:19:ARG:HB2	5:BU:19:ARG:NH2	2.26	0.51
6:BZ:36:HIS:O	6:BZ:45:TRP:HH2	1.93	0.51
6:BJ:23:GLN:CD	6:BJ:24:SER:N	2.64	0.51
5:BK:9:TYR:CE1	6:BN:15:LYS:HB2	2.45	0.51
3:BM:106:ILE:HG12	5:BO:42:THR:HG21	1.92	0.51
1:BC:65:ALA:HB1	1:BC:89:GLU:OE1	2.11	0.51
6:BG:8:GLY:O	6:BG:9:LEU:HD23	2.11	0.51
5:B9:33:LEU:HD12	5:B9:33:LEU:N	2.26	0.51
1:AC:54:GLN:HE21	1:AC:54:GLN:HA	1.76	0.51
6:A0:20:ILE:C	6:A0:20:ILE:HD13	2.31	0.51
1:AC:126:VAL:CG2	1:AC:127:SER:N	2.74	0.51
1:AC:276:VAL:CG2	1:AC:280:ASN:ND2	2.74	0.51
1:AC:127:SER:OG	7:AC:502:HEM:HMA3	2.11	0.51
3:AM:267:ARG:NE	4:AH:29:TYR:OH	2.38	0.51
2:AL:226:ARG:O	3:AM:50:PRO:O	2.29	0.51
3:AM:4:TYR:O	3:AM:4:TYR:CD1	2.64	0.51
9:AP:101:BCL:HMB3	9:AQ:102:BCL:C1B	2.41	0.51
5:AS:10:LYS:HB3	14:AS:104:CRT:C3	2.41	0.51
6:AT:29:PHE:CE1	9:AT:101:BCL:C1	2.92	0.51
5:AS:27:PHE:CG	5:AU:29:ILE:HD11	2.45	0.51
5:AW:34:LEU:O	5:AW:38:ILE:HG22	2.11	0.51
9:AY:102:BCL:ND	9:AZ:101:BCL:HMD2	2.26	0.51
5:AY:15:LEU:HG	5:A1:21:LEU:CD2	2.41	0.51
5:AY:44:LEU:CD2	6:AZ:43:ARG:HD2	2.39	0.51
6:B2:17:PHE:HD1	14:B2:102:CRT:C9	2.20	0.51
5:B3:17:PRO:O	5:B3:21:LEU:HB2	2.11	0.51
5:B5:29:ILE:HG23	5:B5:30:VAL:N	2.26	0.51
6:B8:21:PHE:CG	6:B8:22:MET:N	2.78	0.51
5:BA:33:LEU:CA	14:B0:101:CRT:H2M3	2.37	0.51
1:BC:305:VAL:HG11	7:BC:502:HEM:HBC1	1.92	0.51
4:BH:47:GLU:HG3	5:BA:19:ARG:HA	1.91	0.51
4:BH:5:ILE:O	4:BH:6:THR:HG23	2.11	0.51
6:BG:25:MET:HE2	9:BI:102:BCL:H203	1.93	0.51
6:BJ:15:LYS:O	6:BJ:18:HIS:HB3	2.10	0.51
5:BK:49:ASP:OD2	6:BN:43:ARG:NH1	2.40	0.51
3:BM:259:ASN:N	3:BM:259:ASN:ND2	2.58	0.51
6:BP:24:SER:O	6:BP:27:ALA:HB3	2.11	0.51
5:BS:46:TRP:CZ3	9:BS:102:BCL:HAC1	2.46	0.51
5:BU:5:ASN:HB3	6:BV:22:MET:CE	2.40	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BW:7:ASN:ND2	5:BW:7:ASN:H	2.09	0.51
6:B4:42:TYR:CD1	6:B4:42:TYR:C	2.83	0.51
2:BL:236:LEU:HD13	3:BM:232:ASP:HB3	1.92	0.51
5:A3:14:ILE:HD13	6:A6:17:PHE:CE2	2.38	0.51
5:A7:17:PRO:O	5:A7:21:LEU:HG	2.11	0.51
6:AB:18:HIS:HE1	6:AB:22:MET:HE1	1.76	0.51
1:AC:235:LEU:HG	1:AC:239:ILE:CD1	2.40	0.51
1:AC:313:ALA:O	1:AC:314:VAL:HG22	2.11	0.51
1:AC:97:VAL:O	1:AC:97:VAL:CG1	2.57	0.51
4:AH:56:VAL:O	4:AH:56:VAL:HG23	2.10	0.51
5:AI:50:ASN:CG	5:AI:51:ILE:H	2.15	0.51
3:AM:222:THR:HG21	3:AM:252:TRP:HE1	1.76	0.51
3:AM:224:LEU:HA	3:AM:227:SER:HB2	1.92	0.51
3:AM:259:ASN:C	3:AM:259:ASN:HD22	2.14	0.51
6:AX:46:LEU:HD13	6:AZ:42:TYR:CZ	2.45	0.51
9:AY:102:BCL:CBC	9:AZ:101:BCL:HHD	2.41	0.51
6:B0:21:PHE:CB	14:B0:101:CRT:C14	2.78	0.51
5:B1:14:ILE:HD12	5:B1:15:LEU:H	1.74	0.51
5:B3:40:LEU:HD21	5:B3:46:TRP:CZ2	2.45	0.51
5:B3:44:LEU:CD1	5:B3:46:TRP:CE3	2.94	0.51
6:B8:20:ILE:O	6:B8:23:GLN:CG	2.59	0.51
5:B9:31:LEU:CD1	5:B9:35:ILE:HD11	2.41	0.51
5:B9:44:LEU:O	5:B9:46:TRP:N	2.41	0.51
1:BC:199:PRO:C	1:BC:202:PRO:HD2	2.32	0.51
4:BH:19:PHE:CD1	4:BH:20:TRP:N	2.79	0.51
4:BH:36:ARG:HD2	4:BH:78:ALA:HB3	1.93	0.51
9:BG:101:BCL:H203	6:BJ:38:LEU:HD21	1.93	0.51
2:BL:48:LEU:HD13	5:BA:33:LEU:CD2	2.41	0.51
2:BL:47:VAL:O	2:BL:50:ILE:HG22	2.11	0.51
3:BM:279:THR:HA	3:BM:282:ILE:CG1	2.41	0.51
3:BM:199:ASN:HB2	3:BM:294:TRP:CD2	2.45	0.51
5:BQ:31:LEU:O	5:BQ:34:LEU:HB3	2.10	0.51
5:BY:9:TYR:CG	6:BZ:15:LYS:HG2	2.45	0.51
5:AS:50:ASN:CB	5:AU:60:LYS:HA	2.41	0.51
4:BH:126:THR:HG22	4:BH:132:LYS:HA	1.93	0.51
6:BN:10:THR:C	6:BN:13:GLU:OE2	2.49	0.51
1:AC:135:ARG:HH11	1:AC:135:ARG:CB	2.23	0.51
3:AM:301:HIS:HA	4:AH:8:TYR:HB2	1.93	0.51
5:B9:17:PRO:O	5:B9:21:LEU:CB	2.58	0.51
6:BT:40:TRP:CZ3	6:BT:44:PRO:HA	2.45	0.51
1:AC:85:LEU:HD22	1:AC:89:GLU:HG2	1.93	0.51
5:BQ:7:ASN:HB3	6:BT:20:ILE:HG22	1.93	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BQ:7:ASN:HB3	6:BT:20:ILE:CG2	2.40	0.51
4:AH:53:VAL:HG13	4:AH:53:VAL:O	2.10	0.51
9:A1:102:BCL:O1D	9:A1:102:BCL:H2A	2.11	0.51
6:A2:38:LEU:C	6:A2:38:LEU:HD23	2.31	0.51
5:A3:8:LEU:HD23	6:A6:20:ILE:HD11	1.93	0.51
6:A8:45:TRP:CE2	9:A8:101:BCL:H2C	2.46	0.51
1:AC:130:MET:SD	7:AC:502:HEM:NB	2.84	0.51
4:AH:135:PRO:C	4:AH:137:ARG:H	2.14	0.51
4:AH:54:LYS:HG3	4:AH:58:PHE:HD1	1.76	0.51
5:AF:49:ASP:HB2	5:AI:56:GLN:CD	2.32	0.51
6:AJ:38:LEU:HD23	6:AJ:38:LEU:O	2.10	0.51
2:AL:101:CYS:O	2:AL:103:ALA:N	2.44	0.51
3:AM:4:TYR:HE1	3:AM:6:ASN:HA	1.75	0.51
3:AM:58:THR:HB	3:AM:62:PHE:CE2	2.46	0.51
9:AO:102:BCL:H111	9:AO:102:BCL:C19	2.41	0.51
6:AP:21:PHE:O	6:AP:22:MET:C	2.49	0.51
9:AQ:102:BCL:HBC2	9:AR:101:BCL:HMD2	1.92	0.51
5:AS:42:THR:HG22	5:AS:43:ASP:N	2.26	0.51
5:AW:27:PHE:CE1	14:AX:102:CRT:H30	2.45	0.51
5:B5:28:GLN:HE22	9:B6:101:BCL:HED1	1.74	0.51
5:B7:46:TRP:CZ3	9:B7:103:BCL:CBC	2.94	0.51
6:B8:20:ILE:HD13	6:B8:20:ILE:O	2.11	0.51
9:BA:101:BCL:OBB	9:BA:101:BCL:HHC	2.11	0.51
1:BC:275:HIS:O	1:BC:275:HIS:HD2	1.93	0.51
5:BF:12:TRP:HA	5:BF:12:TRP:CE3	2.46	0.51
4:BH:52:ARG:HB2	4:BH:54:LYS:NZ	2.26	0.51
4:BH:69:LEU:CB	4:BH:70:PRO:CD	2.89	0.51
9:BI:102:BCL:CBC	9:BJ:101:BCL:HAC1	2.41	0.51
2:BL:224:PHE:HE1	3:BM:137:ALA:HA	1.76	0.51
3:BM:220:GLY:O	3:BM:224:LEU:HG	2.11	0.51
6:BN:45:TRP:CZ3	9:BN:101:BCL:HAC2	2.46	0.51
9:BO:102:BCL:HAC2	9:BP:101:BCL:HBC1	1.92	0.51
5:BU:35:ILE:HG21	9:BV:101:BCL:C2D	2.40	0.51
6:BV:20:ILE:CG2	14:BV:102:CRT:C9	2.87	0.51
2:AL:68:TYR:CA	2:AL:73:ILE:HD11	2.35	0.51
2:BL:203:ILE:C	2:BL:205:SER:H	2.13	0.51
5:BK:51:ILE:HA	5:BK:52:PRO:C	2.31	0.51
6:A2:25:MET:HE1	9:A3:103:BCL:H171	1.92	0.50
9:A3:104:BCL:C2	6:A4:29:PHE:HD1	2.24	0.50
6:AB:20:ILE:C	6:AB:20:ILE:HD13	2.31	0.50
1:AC:212:ILE:CD1	7:AC:503:HEM:HAA1	2.41	0.50
4:AH:153:GLY:H	4:AH:167:VAL:HG23	1.76	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AK:102:BCL:CBD	9:AN:101:BCL:CAD	2.89	0.50
2:AL:119:LYS:C	2:AL:121:GLY:H	2.14	0.50
2:AL:156:PRO:CG	2:AL:162:HIS:HA	2.41	0.50
2:AL:203:ILE:O	2:AL:206:VAL:HG22	2.12	0.50
2:AL:217:THR:H	2:AL:220:HIS:HD1	1.58	0.50
9:AL:303:BCL:OBB	9:AL:303:BCL:HHC	2.11	0.50
3:AM:264:SER:O	3:AM:267:ARG:N	2.37	0.50
3:AM:150:PHE:CA	10:AM:403:BPH:HMD3	2.42	0.50
3:AM:63:PHE:CD2	3:AM:124:LEU:HB2	2.46	0.50
9:AK:102:BCL:CAD	9:AN:101:BCL:CAD	2.89	0.50
9:AO:102:BCL:HAC2	9:AP:101:BCL:HBC1	1.92	0.50
6:AX:32:VAL:O	6:AX:36:HIS:N	2.41	0.50
5:BY:49:ASP:HB2	5:B1:56:GLN:CD	2.31	0.50
6:B2:16:GLU:CD	14:B2:102:CRT:H1M1	2.30	0.50
9:B2:101:BCL:C4B	9:B3:102:BCL:HBB3	2.41	0.50
5:B7:29:ILE:HG23	5:B7:30:VAL:N	2.26	0.50
5:BA:31:LEU:HD12	5:BA:34:LEU:HD23	1.92	0.50
5:BF:23:SER:O	5:BF:26:ALA:HB3	2.11	0.50
5:BK:4:MET:SD	6:BP:27:ALA:HB2	2.51	0.50
9:BL:301:BCL:H191	9:BM:401:BCL:H8	1.93	0.50
3:BM:52:TYR:CE2	3:BM:136:ARG:NE	2.79	0.50
6:BP:40:TRP:CZ3	6:BP:44:PRO:HA	2.45	0.50
6:BX:21:PHE:CD1	6:BX:22:MET:N	2.79	0.50
2:AL:20:GLY:C	2:AL:22:LEU:H	2.15	0.50
5:AF:52:PRO:HB2	5:AF:55:TYR:CE1	2.32	0.50
4:BH:66:THR:O	4:BH:66:THR:HG23	2.11	0.50
14:A1:103:CRT:H343	9:A5:102:BCL:HBA1	1.92	0.50
5:A1:19:ARG:HH21	5:A3:18:ARG:HH21	1.58	0.50
5:A1:51:ILE:HA	5:A1:52:PRO:C	2.32	0.50
5:A3:51:ILE:HA	5:A3:54:SER:H	1.75	0.50
14:A7:102:CRT:C34	9:A7:103:BCL:HBA1	2.41	0.50
6:AB:20:ILE:HG21	14:AB:102:CRT:C8	2.41	0.50
5:AA:50:ASN:CG	6:AB:43:ARG:HH21	2.14	0.50
1:AC:153:TYR:O	1:AC:157:ARG:N	2.44	0.50
1:AC:200:LEU:O	1:AC:204:LEU:N	2.44	0.50
1:AC:302:PRO:O	1:AC:304:ARG:N	2.42	0.50
6:AE:42:TYR:CE2	6:AE:43:ARG:HG3	2.45	0.50
6:AG:30:GLY:O	6:AG:34:ILE:CG2	2.60	0.50
6:AG:38:LEU:HA	6:AG:41:LEU:CD1	2.39	0.50
2:AL:155:PHE:HA	2:AL:165:TRP:CD1	2.46	0.50
2:AL:185:ALA:CB	2:AL:252:TRP:HB3	2.41	0.50
2:AL:187:SER:O	2:AL:190:PHE:HB2	2.11	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:4:LEU:HD12	3:AM:250:LEU:CD1	2.39	0.50
5:AO:29:ILE:HA	9:AO:102:BCL:C1	2.37	0.50
6:AR:29:PHE:CD1	6:AR:29:PHE:N	2.79	0.50
5:AY:11:ILE:CG2	5:AY:15:LEU:HD12	2.41	0.50
9:B3:102:BCL:CBB	9:B3:102:BCL:HMB1	2.40	0.50
5:B7:24:ILE:O	5:B7:28:GLN:HB2	2.11	0.50
14:BA:102:CRT:C32	5:BD:31:LEU:HD21	2.41	0.50
6:BB:34:ILE:O	6:BB:34:ILE:HD13	2.10	0.50
2:BL:110:ALA:HB2	2:BL:134:ILE:HD11	1.93	0.50
2:BL:48:LEU:HD23	2:BL:51:VAL:HG21	1.94	0.50
2:BL:4:LEU:HB2	2:BL:7:GLU:HB2	1.93	0.50
3:BM:287:SER:HG	3:BM:294:TRP:HE1	1.58	0.50
9:BO:102:BCL:H71	6:BP:28:TRP:CE3	2.46	0.50
6:BP:45:TRP:O	6:BP:46:LEU:CG	2.59	0.50
5:BQ:46:TRP:CZ2	9:BQ:103:BCL:CHC	2.94	0.50
5:BS:4:MET:HG3	5:BS:5:ASN:N	2.26	0.50
5:BY:28:GLN:O	9:BY:102:BCL:H11	2.11	0.50
4:BH:178:GLN:O	4:BH:178:GLN:HG3	2.09	0.50
5:BK:9:TYR:HA	6:BN:18:HIS:CG	2.46	0.50
4:BH:94:PRO:HG2	6:B0:8:GLY:CA	2.35	0.50
1:BC:92:ARG:O	1:BC:95:VAL:HB	2.11	0.50
6:AR:10:THR:HB	6:AR:13:GLU:OE2	2.11	0.50
3:BM:166:VAL:HG22	3:BM:171:TRP:HZ3	1.75	0.50
1:AC:66:ASP:O	1:AC:67:SER:HB3	2.12	0.50
4:BH:206:ALA:C	4:BH:208:LYS:H	2.14	0.50
6:A0:29:PHE:N	6:A0:29:PHE:CD1	2.78	0.50
9:A1:102:BCL:HMB1	9:A1:102:BCL:HBB2	1.94	0.50
6:A8:20:ILE:HD13	6:A8:20:ILE:O	2.11	0.50
5:AA:17:PRO:HB2	5:A9:14:ILE:HD13	1.93	0.50
1:AC:236:MET:CE	7:AC:503:HEM:ND	2.74	0.50
4:AH:5:ILE:HG21	5:AD:42:THR:OG1	2.11	0.50
5:AF:10:LYS:CB	14:AJ:102:CRT:H5	2.41	0.50
5:AF:44:LEU:HD22	6:AG:43:ARG:CD	2.36	0.50
4:AH:123:CYS:SG	4:AH:230:GLN:HB2	2.51	0.50
4:AH:13:GLN:HE21	16:AH:302:PO4:P	2.33	0.50
2:AL:140:LEU:O	2:AL:141:VAL:HB	2.10	0.50
2:AL:260:SER:HG	2:AL:268:TRP:HZ2	1.58	0.50
3:AM:204:LEU:C	3:AM:206:ILE:N	2.63	0.50
3:AM:229:PHE:CD1	3:AM:229:PHE:N	2.78	0.50
2:AL:26:TRP:HZ2	3:AM:254:TRP:CZ3	2.29	0.50
9:AO:102:BCL:C4D	9:AP:101:BCL:CMD	2.89	0.50
6:AR:29:PHE:HD1	6:AR:29:PHE:H	1.58	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AR:29:PHE:HD1	6:AR:29:PHE:N	2.08	0.50
9:AX:101:BCL:CBB	9:AX:101:BCL:HMB1	2.41	0.50
6:AV:46:LEU:HD13	6:AX:42:TYR:CE1	2.46	0.50
14:B2:102:CRT:H2M1	5:B3:36:HIS:CB	2.21	0.50
5:B7:35:ILE:CD1	9:B8:101:BCL:O1D	2.59	0.50
5:BF:12:TRP:HE3	5:BF:12:TRP:HA	1.76	0.50
6:BJ:45:TRP:CD1	6:BJ:46:LEU:N	2.80	0.50
2:BL:113:GLU:CB	2:BL:127:PRO:HG3	2.36	0.50
5:BO:33:LEU:O	5:BO:37:MET:HG2	2.11	0.50
9:BP:101:BCL:CMC	5:BQ:47:LEU:CD2	2.89	0.50
5:BO:7:ASN:CB	6:BR:20:ILE:HD12	2.35	0.50
5:AI:18:ARG:NH1	5:AI:18:ARG:CG	2.73	0.50
4:AH:159:LEU:HD23	4:AH:214:ILE:N	2.27	0.50
1:AC:147:GLU:HB2	1:AC:322:GLN:HE22	1.77	0.50
3:BM:28:LEU:HB3	3:BM:29:PRO:CD	2.37	0.50
5:AK:18:ARG:HH11	5:AK:18:ARG:HG2	1.76	0.50
1:BC:96:ALA:C	1:BC:98:THR:N	2.65	0.50
5:BA:7:ASN:C	5:BA:8:LEU:HD23	2.31	0.50
5:A1:14:ILE:CD1	5:A1:15:LEU:HG	2.41	0.50
6:A2:42:TYR:CD1	6:A2:43:ARG:HG3	2.45	0.50
9:A6:101:BCL:OBB	9:A6:101:BCL:HHC	2.11	0.50
6:A6:28:TRP:C	6:A6:30:GLY:N	2.62	0.50
5:A7:35:ILE:O	5:A7:36:HIS:C	2.49	0.50
5:A7:40:LEU:HD13	5:A7:46:TRP:CZ2	2.47	0.50
5:A7:7:ASN:CB	5:A7:10:LYS:HZ2	2.24	0.50
5:AD:26:ALA:O	5:AD:29:ILE:HG22	2.11	0.50
4:AH:126:THR:HG22	4:AH:132:LYS:HA	1.94	0.50
2:AL:213:GLU:OE2	2:AL:214:PRO:HD2	2.11	0.50
3:AM:98:PRO:CD	3:AM:171:TRP:HB3	2.41	0.50
5:AQ:18:ARG:HA	5:AQ:21:LEU:HD12	1.92	0.50
6:AR:45:TRP:HD1	6:AR:46:LEU:N	2.09	0.50
5:AU:15:LEU:HB3	5:AU:20:VAL:HG21	1.93	0.50
9:AV:102:BCL:HHC	9:AV:102:BCL:OBB	2.12	0.50
5:BY:43:ASP:HB2	5:B1:47:LEU:CD1	2.41	0.50
5:B1:31:LEU:HD23	9:B2:101:BCL:HED3	1.94	0.50
5:B5:32:GLY:HA2	9:B6:101:BCL:HED2	1.93	0.50
5:B5:43:ASP:HB2	5:B7:47:LEU:HB3	1.94	0.50
5:B9:44:LEU:H	5:B9:44:LEU:CD1	2.25	0.50
9:BA:101:BCL:HBC2	9:BB:101:BCL:HMD2	1.92	0.50
1:BC:204:LEU:CD2	7:BC:504:HEM:HBB1	2.41	0.50
9:BB:101:BCL:HBB3	9:BD:102:BCL:C4B	2.40	0.50
14:BA:102:CRT:H35	5:BD:31:LEU:HD21	1.93	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:BJ:22:MET:O	6:BJ:26:TYR:HD1	1.94	0.50
5:BY:35:ILE:O	5:BY:38:ILE:HG13	2.11	0.50
5:BY:40:LEU:HB2	5:BY:46:TRP:CH2	2.47	0.50
5:AF:19:ARG:HH22	5:AI:18:ARG:CZ	2.21	0.50
4:AH:106:PRO:HA	4:AH:109:SER:HB3	1.92	0.50
1:AC:70:PRO:C	1:AC:71:LYS:HD2	2.32	0.50
6:A0:33:VAL:O	6:A0:37:LEU:HB2	2.11	0.50
9:A3:103:BCL:HBC2	9:A3:104:BCL:HMD2	1.93	0.50
5:A5:36:HIS:NE2	9:A6:101:BCL:HMD1	2.27	0.50
5:A7:42:THR:O	5:A7:43:ASP:C	2.50	0.50
6:A8:45:TRP:HA	5:A9:52:PRO:CD	2.41	0.50
5:AA:38:ILE:C	5:AA:38:ILE:HD12	2.32	0.50
9:AA:101:BCL:HED1	6:AB:31:LEU:CB	2.41	0.50
1:AC:191:ALA:HB3	1:AC:237:MET:HE3	1.92	0.50
1:AC:285:TRP:CZ3	1:AC:302:PRO:CD	2.89	0.50
6:AE:23:GLN:CG	6:AE:24:SER:N	2.75	0.50
9:AF:102:BCL:H172	9:AF:102:BCL:H111	1.94	0.50
9:AF:102:BCL:HBC2	9:AG:101:BCL:HHD	1.94	0.50
6:AG:28:TRP:CE2	6:AG:32:VAL:HG23	2.44	0.50
2:AL:11:ARG:HB3	2:AL:26:TRP:CH2	2.45	0.50
2:AL:87:ALA:HB3	2:AL:96:GLN:HE21	1.76	0.50
3:AM:134:TYR:CA	3:AM:144:GLN:HE22	2.23	0.50
6:AR:20:ILE:HD12	14:AR:102:CRT:C10	2.41	0.50
5:AS:24:ILE:HD11	9:AU:102:BCL:H191	1.93	0.50
5:AY:43:ASP:CA	5:A1:48:ASP:HB3	2.41	0.50
6:B2:21:PHE:CB	14:B2:102:CRT:H11	2.27	0.50
5:B3:46:TRP:HZ3	9:B3:102:BCL:CBC	2.21	0.50
6:B6:28:TRP:C	6:B6:30:GLY:N	2.63	0.50
6:B8:28:TRP:HA	6:B8:31:LEU:HB2	1.92	0.50
1:BC:236:MET:HG3	7:BC:503:HEM:C4A	2.47	0.50
1:BC:270:TRP:CE3	1:BC:271:TYR:HD1	2.29	0.50
1:BC:270:TRP:CZ2	1:BC:274:ARG:NH1	2.78	0.50
1:BC:43:TYR:HE1	2:BL:153:HIS:HE2	1.57	0.50
5:BA:43:ASP:HB2	5:BD:47:LEU:HD12	1.93	0.50
9:BG:101:BCL:C2B	9:BI:102:BCL:C1B	2.89	0.50
6:BG:45:TRP:O	6:BG:46:LEU:CB	2.60	0.50
3:BM:253:ARG:NH2	4:BH:41:LEU:HD11	2.27	0.50
14:BF:103:CRT:H14	6:BJ:21:PHE:CD2	2.47	0.50
2:BL:199:HIS:HA	11:BL:304:UQ8:O2	2.12	0.50
2:BL:202:LEU:HD13	2:BL:224:PHE:CD2	2.47	0.50
2:BL:192:ASN:HA	2:BL:245:LEU:HD12	1.92	0.50
3:BM:259:ASN:HD22	3:BM:259:ASN:H	1.58	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:BM:71:ILE:O	3:BM:75:MET:HB2	2.11	0.50
5:BU:11:ILE:CG1	14:BU:103:CRT:H83	2.40	0.50
5:BY:29:ILE:HG13	9:BY:102:BCL:H43	1.91	0.50
6:BZ:36:HIS:O	6:BZ:45:TRP:CH2	2.65	0.50
2:AL:57:GLY:HA3	2:AL:66:GLN:HG2	1.93	0.50
1:AC:135:ARG:HG2	1:AC:330:LEU:C	2.32	0.50
1:AC:96:ALA:C	1:AC:98:THR:N	2.62	0.50
3:BM:74:ASN:CG	3:BM:95:LEU:HD13	2.32	0.50
5:AA:40:LEU:HD12	5:AA:40:LEU:O	2.12	0.50
6:AB:43:ARG:HB3	5:AD:55:TYR:CZ	2.46	0.50
2:AL:168:ASN:C	2:AL:170:GLY:N	2.65	0.50
3:AM:63:PHE:HD2	3:AM:124:LEU:HB2	1.76	0.50
3:AM:131:VAL:C	3:AM:133:THR:N	2.65	0.50
3:AM:242:GLY:C	4:AH:117:PRO:HG3	2.32	0.50
3:AM:265:ILE:HG23	3:AM:266:HIS:N	2.25	0.50
9:AK:102:BCL:CMD	9:AN:101:BCL:CHD	2.86	0.50
5:AK:12:TRP:CD1	6:AN:14:ALA:O	2.65	0.50
5:AW:21:LEU:HD11	9:AW:101:BCL:C14	2.41	0.50
6:AX:45:TRP:CE3	9:AX:101:BCL:HAC2	2.46	0.50
5:AY:4:MET:HB3	5:AY:8:LEU:CG	2.39	0.50
5:B3:32:GLY:N	9:B4:101:BCL:HED2	2.26	0.50
5:BA:47:LEU:HB3	5:B9:43:ASP:HA	1.93	0.50
1:BC:142:LYS:HA	1:BC:145:VAL:HG23	1.92	0.50
1:BC:265:LYS:HD2	1:BC:265:LYS:N	2.26	0.50
1:BC:285:TRP:CZ3	1:BC:302:PRO:CD	2.91	0.50
1:BC:301:ASP:HB2	1:BC:302:PRO:CD	2.42	0.50
9:BF:102:BCL:ND	9:BG:101:BCL:CMD	2.73	0.50
5:BF:51:ILE:CG2	5:BF:52:PRO:HA	2.38	0.50
5:BK:12:TRP:CD1	6:BN:17:PHE:HB3	2.47	0.50
5:BK:46:TRP:CA	5:BK:49:ASP:OD1	2.52	0.50
3:BM:284:ILE:HD11	9:BM:402:BCL:OBD	2.11	0.50
14:BW:103:CRT:H392	5:BY:35:ILE:CD1	2.42	0.50
5:AI:16:ASP:HB2	5:AI:19:ARG:HG2	1.94	0.50
5:A3:9:TYR:HA	6:A4:18:HIS:ND1	2.27	0.50
6:A8:33:VAL:HG22	9:A8:101:BCL:H143	1.93	0.50
5:AA:9:TYR:CE1	5:AA:10:LYS:HD3	2.47	0.50
1:AC:156:HIS:ND1	1:AC:160:PRO:O	2.44	0.50
1:AC:20:LEU:HD13	1:AC:20:LEU:C	2.32	0.50
1:AC:233:PHE:O	1:AC:234:GLY:C	2.50	0.50
1:AC:258:ASP:O	1:AC:261:GLN:HB2	2.12	0.50
1:AC:312:GLN:O	1:AC:313:ALA:HB3	2.11	0.50
1:AC:314:VAL:HG12	1:AC:315:ASN:N	2.27	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:49:ASP:OD2	5:AI:56:GLN:HB3	2.12	0.50
4:AH:71:HIS:HE1	4:AH:125:LEU:HD22	1.77	0.50
4:AH:29:TYR:CZ	4:AH:33:GLU:HG3	2.46	0.50
5:AK:44:LEU:HD23	6:AN:43:ARG:NH2	2.27	0.50
2:AL:117:CYS:HB3	2:AL:124:PHE:CD2	2.47	0.50
2:AL:162:HIS:CD2	10:AL:302:BPH:H191	2.46	0.50
3:AM:130:TRP:HA	3:AM:150:PHE:CE2	2.46	0.50
3:AM:254:TRP:HD1	3:AM:254:TRP:N	2.08	0.50
1:AC:254:ARG:HH21	3:AM:295:TYR:HE1	1.59	0.50
3:AM:297:TRP:CZ3	3:AM:303:MET:SD	3.05	0.50
5:AO:9:TYR:CB	6:AP:18:HIS:CD2	2.94	0.50
5:AQ:50:ASN:HD21	6:AR:43:ARG:HH22	1.59	0.50
14:B5:103:CRT:H14	5:B7:21:LEU:HD22	1.93	0.50
5:BA:38:ILE:C	5:BA:38:ILE:HD12	2.31	0.50
5:BA:9:TYR:HB2	6:BB:18:HIS:CD2	2.42	0.50
9:BB:101:BCL:H12	14:BB:102:CRT:C25	2.41	0.50
6:BB:17:PHE:CD1	14:BB:102:CRT:C6	2.95	0.50
6:BB:32:VAL:HG21	9:BB:101:BCL:CBA	2.31	0.50
4:BH:136:MET:CA	4:BH:139:ALA:HB3	2.30	0.50
4:BH:39:TYR:HD1	4:BH:40:PRO:HA	1.76	0.50
2:BL:187:SER:O	2:BL:190:PHE:HB2	2.12	0.50
9:BL:301:BCL:CBA	9:BM:401:BCL:HBC1	2.34	0.50
6:BN:32:VAL:HG21	9:BN:101:BCL:HBA2	1.94	0.50
6:BP:21:PHE:O	6:BP:22:MET:C	2.50	0.50
5:BS:26:ALA:C	5:BS:29:ILE:HG22	2.32	0.50
1:BC:90:PHE:HD1	1:BC:91:THR:N	2.10	0.50
6:BE:8:GLY:O	6:BE:9:LEU:HG	2.12	0.50
5:BF:22:VAL:O	5:BF:25:VAL:HB	2.11	0.50
6:A2:30:GLY:O	6:A2:33:VAL:HG12	2.11	0.50
5:B9:33:LEU:O	5:B9:37:MET:HB2	2.11	0.50
1:AC:114:GLY:O	1:AC:116:TRP:CD1	2.65	0.50
1:AC:178:LEU:HD21	3:AM:110:SER:HB2	1.93	0.50
6:AR:36:HIS:O	6:AR:39:ALA:N	2.45	0.50
5:A9:31:LEU:HD21	9:A0:102:BCL:CMA	2.41	0.50
6:A0:34:ILE:HD13	6:A0:34:ILE:C	2.32	0.50
5:A1:43:ASP:HB3	5:A1:44:LEU:HD23	1.94	0.50
5:A1:28:GLN:NE2	6:A2:28:TRP:NE1	2.60	0.50
1:AC:316:LYS:O	1:AC:320:GLY:N	2.40	0.50
1:AC:48:GLN:C	1:AC:50:ALA:N	2.64	0.50
14:AB:102:CRT:C34	9:AD:102:BCL:HBA1	2.41	0.50
5:AD:7:ASN:HD22	5:AD:7:ASN:N	2.05	0.50
6:AG:36:HIS:HE1	9:AG:101:BCL:C4A	2.25	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AH:71:HIS:HE1	4:AH:125:LEU:CD2	2.25	0.50
4:AH:19:PHE:C	4:AH:19:PHE:CD1	2.85	0.50
3:AM:121:PHE:N	3:AM:121:PHE:HD1	2.09	0.50
3:AM:201:PHE:HZ	4:AH:15:THR:HG22	1.77	0.50
3:AM:53:LEU:CG	3:AM:58:THR:HG23	2.42	0.50
6:AN:45:TRP:CE3	9:AN:101:BCL:H2C	2.46	0.50
9:AO:102:BCL:ND	9:AP:101:BCL:HMD1	2.22	0.50
14:AP:102:CRT:C2M	5:AQ:37:MET:HG2	2.40	0.50
14:AS:104:CRT:C2M	5:AW:33:LEU:O	2.58	0.50
5:AY:5:ASN:CG	6:AZ:18:HIS:CD2	2.83	0.50
6:AZ:46:LEU:O	5:A1:51:ILE:O	2.30	0.50
6:BB:42:TYR:HE2	6:BB:43:ARG:HH21	1.60	0.50
1:BC:226:LEU:H	3:BM:173:LYS:HE3	1.77	0.50
2:BL:52:TRP:O	2:BL:55:THR:HB	2.11	0.50
3:BM:133:THR:HG22	3:BM:147:SER:OG	2.12	0.50
3:BM:129:TRP:O	3:BM:150:PHE:HE2	1.95	0.50
3:BM:276:THR:O	3:BM:278:ILE:N	2.45	0.50
3:BM:4:TYR:CD1	3:BM:4:TYR:O	2.65	0.50
3:BM:84:PHE:CD2	5:BW:37:MET:SD	3.05	0.50
3:BM:90:PHE:O	3:BM:92:TRP:N	2.45	0.50
5:BW:30:VAL:O	5:BW:33:LEU:HG	2.11	0.50
5:BY:43:ASP:HB2	5:B1:47:LEU:CG	2.42	0.50
5:AF:19:ARG:CZ	5:AI:18:ARG:NH2	2.69	0.50
6:B4:40:TRP:CZ3	6:B4:45:TRP:N	2.77	0.50
2:AL:5:SER:HB3	4:AH:38:GLY:HA2	1.92	0.50
6:A0:21:PHE:HE1	6:A0:25:MET:HB2	1.77	0.50
14:AW:102:CRT:C2M	5:A1:36:HIS:HB3	2.42	0.50
6:A6:45:TRP:CD1	6:A6:46:LEU:N	2.66	0.50
5:A5:24:ILE:HD11	9:A7:103:BCL:H191	1.94	0.50
5:A5:14:ILE:CG2	5:A7:18:ARG:HG2	2.39	0.50
5:A7:49:ASP:OD2	6:A8:43:ARG:NH1	2.45	0.50
4:AH:182:LEU:HD12	4:AH:195:LEU:O	2.12	0.50
4:AH:182:LEU:HD13	4:AH:195:LEU:HD23	1.93	0.50
4:AH:28:ILE:O	4:AH:29:TYR:C	2.49	0.50
5:AI:43:ASP:OD2	9:AJ:101:BCL:CMC	2.59	0.50
6:AJ:33:VAL:HG22	6:AJ:37:LEU:HD23	1.94	0.50
2:AL:117:CYS:SG	2:AL:124:PHE:HA	2.50	0.50
2:AL:139:VAL:O	2:AL:139:VAL:HG13	2.11	0.50
2:AL:239:HIS:CG	3:AM:223:ILE:HG21	2.46	0.50
2:AL:244:PHE:HA	11:AL:304:UQ8:H45A	1.94	0.50
2:AL:98:ILE:HG22	2:AL:99:THR:N	2.26	0.50
5:AS:30:VAL:HG13	5:AS:31:LEU:N	2.26	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AU:27:PHE:CE2	5:AW:29:ILE:HD11	2.46	0.50
9:AW:101:BCL:HBC2	9:AW:101:BCL:CHD	2.41	0.50
14:AW:102:CRT:H342	9:A1:102:BCL:CBA	2.42	0.50
6:B0:29:PHE:HE1	9:B0:102:BCL:H72	1.77	0.50
6:B0:21:PHE:HE1	6:B0:25:MET:HB2	1.77	0.50
5:B5:44:LEU:C	5:B5:46:TRP:H	2.16	0.50
1:BC:250:CYS:HA	1:BC:263:THR:OG1	2.11	0.50
1:BC:259:TRP:O	1:BC:261:GLN:N	2.45	0.50
1:BC:274:ARG:O	1:BC:277:ARG:HB2	2.11	0.50
5:BF:46:TRP:NE1	9:BF:102:BCL:OBB	2.45	0.50
4:BH:31:ARG:O	4:BH:34:ASP:HB2	2.11	0.50
4:BH:47:GLU:CG	5:BA:19:ARG:HG3	2.42	0.50
6:BJ:28:TRP:NE1	6:BJ:32:VAL:HG21	2.27	0.50
2:BL:111:LEU:O	2:BL:114:VAL:HB	2.11	0.50
2:BL:231:TYR:CG	2:BL:232:SER:N	2.79	0.50
2:BL:44:LEU:C	2:BL:46:GLY:N	2.66	0.50
3:BM:251:PHE:O	3:BM:255:THR:OG1	2.25	0.50
5:BO:29:ILE:HG23	5:BO:30:VAL:N	2.27	0.50
6:BR:20:ILE:HG23	6:BR:21:PHE:N	2.26	0.50
5:BS:43:ASP:HA	5:BU:56:GLN:HG3	1.92	0.50
6:BV:45:TRP:O	6:BV:46:LEU:CB	2.60	0.50
5:BW:15:LEU:O	5:BW:17:PRO:HD3	2.11	0.50
2:BL:279:PRO:CG	5:BY:37:MET:SD	2.99	0.50
1:AC:73:SER:HB3	1:AC:83:LYS:CB	2.38	0.50
2:AL:82:TYR:HA	2:AL:85:ARG:NE	2.26	0.50
3:BM:98:PRO:HB2	3:BM:171:TRP:CB	2.40	0.50
6:BT:38:LEU:O	6:BT:38:LEU:HD23	2.12	0.50
5:A9:36:HIS:CD2	9:A0:102:BCL:HMD1	2.47	0.49
6:A2:40:TRP:HH2	6:A2:46:LEU:HG	1.77	0.49
6:A8:33:VAL:CG1	6:A8:34:ILE:N	2.75	0.49
5:AA:10:LYS:HB2	14:AA:102:CRT:H5	1.94	0.49
6:AB:36:HIS:CE1	9:AB:101:BCL:ND	2.80	0.49
1:AC:111:HIS:HE1	1:AC:124:LYS:CE	2.25	0.49
1:AC:156:HIS:O	1:AC:157:ARG:C	2.50	0.49
1:AC:225:SER:O	1:AC:228:GLN:HB2	2.12	0.49
9:AI:102:BCL:HED1	6:AJ:31:LEU:HB3	1.92	0.49
5:AI:12:TRP:CH2	6:AJ:17:PHE:CZ	3.01	0.49
5:AI:44:LEU:HA	5:AK:56:GLN:HB3	1.94	0.49
3:AM:83:VAL:HG23	3:AM:84:PHE:CD1	2.42	0.49
5:AK:5:ASN:ND2	6:AN:22:MET:HE2	2.24	0.49
6:AP:41:LEU:HG	6:AP:42:TYR:N	2.27	0.49
6:AR:20:ILE:HG23	6:AR:21:PHE:N	2.26	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AU:13:LEU:HD22	6:AV:9:LEU:CB	2.41	0.49
5:AS:27:PHE:CD1	5:AU:29:ILE:HD11	2.47	0.49
5:AU:46:TRP:CD1	5:AU:47:LEU:HD13	2.46	0.49
6:B0:34:ILE:C	6:B0:34:ILE:HD13	2.32	0.49
14:BW:103:CRT:C2M	5:B1:36:HIS:HB3	2.41	0.49
5:B7:9:TYR:HA	6:B8:18:HIS:ND1	2.27	0.49
1:BC:138:ASN:ND2	1:BC:149:GLY:HA3	2.27	0.49
3:BM:264:SER:HB2	4:BH:34:ASP:OD1	2.12	0.49
2:BL:257:ILE:CG2	9:BL:301:BCL:HED2	2.42	0.49
2:BL:170:GLY:HA3	9:BL:301:BCL:CBC	2.41	0.49
2:BL:7:GLU:HB2	3:BM:250:LEU:HD11	1.93	0.49
3:BM:234:GLU:O	3:BM:238:ILE:HG12	2.11	0.49
5:BK:35:ILE:HG13	9:BN:101:BCL:O1D	2.12	0.49
14:BP:102:CRT:H391	5:BQ:36:HIS:HB3	1.94	0.49
5:AK:20:VAL:O	5:AK:24:ILE:HG13	2.12	0.49
1:BC:173:LYS:NZ	5:BU:42:THR:HG22	2.26	0.49
5:A1:57:ALA:C	5:A1:59:GLY:N	2.64	0.49
6:B6:38:LEU:C	6:B6:38:LEU:HD23	2.32	0.49
6:A6:8:GLY:O	6:A6:9:LEU:HD23	2.12	0.49
6:A0:17:PHE:CD1	6:A0:18:HIS:CA	2.92	0.49
6:A2:17:PHE:CD1	14:A2:102:CRT:H41	2.47	0.49
9:A3:104:BCL:HH2	9:A3:104:BCL:OBB	2.12	0.49
9:A3:104:BCL:HAC2	6:A4:45:TRP:CE3	2.48	0.49
5:A5:17:PRO:O	5:A5:21:LEU:CB	2.60	0.49
5:AA:16:ASP:OD1	5:AA:19:ARG:HB2	2.13	0.49
5:AA:46:TRP:CD1	5:AA:47:LEU:HD22	2.47	0.49
6:AB:20:ILE:CD1	14:AB:102:CRT:H133	2.43	0.49
14:AB:102:CRT:H2M2	5:AD:37:MET:HE3	1.93	0.49
1:AC:293:ALA:C	1:AC:295:ARG:H	2.15	0.49
9:AF:102:BCL:H2	6:AG:28:TRP:HH2	1.71	0.49
5:AF:11:ILE:HD12	5:AF:14:ILE:CD1	2.35	0.49
5:AI:10:LYS:HB3	14:AN:102:CRT:H5	1.94	0.49
5:AK:44:LEU:HD22	5:AK:46:TRP:H	1.77	0.49
2:AL:233:ILE:H	11:AL:304:UQ8:H10A	1.76	0.49
2:AL:224:PHE:HE1	3:AM:137:ALA:HA	1.77	0.49
3:AM:170:SER:C	3:AM:172:ALA:N	2.66	0.49
5:AO:10:LYS:O	5:AO:13:LEU:CD2	2.59	0.49
5:AQ:40:LEU:HD21	5:AQ:47:LEU:HD12	1.94	0.49
6:AR:33:VAL:HG23	9:AR:101:BCL:H143	1.94	0.49
5:AW:26:ALA:CA	5:AW:29:ILE:HG22	2.42	0.49
14:AX:102:CRT:H2M2	5:AY:37:MET:HG2	1.93	0.49
5:AY:5:ASN:OD1	6:AZ:18:HIS:HD2	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:B3:42:THR:O	5:B3:43:ASP:C	2.51	0.49
6:B6:16:GLU:OE1	14:B7:102:CRT:H1M1	2.11	0.49
5:BA:38:ILE:O	5:BA:41:SER:HB3	2.12	0.49
9:BB:101:BCL:HBB2	9:BB:101:BCL:HMB1	1.94	0.49
1:BC:123:THR:O	1:BC:127:SER:OG	2.22	0.49
9:BE:101:BCL:HMB3	9:BF:102:BCL:C1B	2.42	0.49
9:BI:102:BCL:HBB2	9:BI:102:BCL:HMB1	1.93	0.49
6:BJ:30:GLY:O	6:BJ:33:VAL:HG12	2.13	0.49
5:BK:18:ARG:NH1	5:BK:18:ARG:HG2	2.27	0.49
2:BL:250:ALA:HB2	10:BL:302:BPH:HBC2	1.93	0.49
9:BL:303:BCL:HBB2	9:BL:303:BCL:HMB1	1.93	0.49
3:BM:195:ASN:HD21	3:BM:197:TYR:HB2	1.77	0.49
9:BL:301:BCL:HAC1	3:BM:197:TYR:OH	2.12	0.49
2:BL:116:ILE:CD1	3:BM:254:TRP:HB2	2.42	0.49
3:BM:75:MET:HG3	3:BM:94:GLY:N	2.28	0.49
5:BY:31:LEU:HD23	9:BZ:101:BCL:HED3	1.94	0.49
4:BH:173:ASP:OD2	4:BH:175:SER:HB2	2.12	0.49
3:BM:12:GLN:CB	4:BH:145:ALA:HB2	2.40	0.49
1:AC:326:ASP:C	1:AC:327:TYR:CD1	2.86	0.49
1:BC:153:TYR:O	1:BC:157:ARG:N	2.44	0.49
6:BE:43:ARG:HH11	5:BF:55:TYR:HD2	1.59	0.49
5:BA:22:VAL:HA	5:BA:25:VAL:CG2	2.41	0.49
6:BE:9:LEU:HB3	6:BE:13:GLU:HG2	1.94	0.49
3:BM:27:ASN:N	3:BM:27:ASN:ND2	2.56	0.49
3:BM:64:GLY:C	3:BM:66:VAL:H	2.15	0.49
6:AB:38:LEU:O	6:AB:38:LEU:HD23	2.11	0.49
14:A2:102:CRT:C24	9:A3:103:BCL:H18	2.43	0.49
9:A3:103:BCL:HHC	9:A3:103:BCL:OB	2.12	0.49
5:A5:43:ASP:HB2	5:A7:47:LEU:HD12	1.95	0.49
6:A8:21:PHE:CG	6:A8:22:MET:N	2.78	0.49
9:A7:103:BCL:HMD1	6:A8:36:HIS:CD2	2.48	0.49
5:AA:16:ASP:OD2	5:AA:19:ARG:HB2	2.12	0.49
4:AH:30:LEU:O	4:AH:31:ARG:C	2.49	0.49
3:AM:209:LEU:HD22	9:AM:402:BCL:H3A	1.94	0.49
3:AM:239:THR:OG1	3:AM:240:HIS:N	2.42	0.49
9:AN:101:BCL:HBB3	9:AO:102:BCL:CHC	2.43	0.49
14:AM:406:CRT:H402	5:AO:38:ILE:HG22	1.93	0.49
9:AU:102:BCL:HMB1	9:AU:102:BCL:HBB3	1.93	0.49
5:B5:16:ASP:CB	5:B5:19:ARG:HH21	2.25	0.49
9:B7:103:BCL:HMD2	9:B8:101:BCL:CHD	2.42	0.49
5:BA:46:TRP:CD1	5:BA:47:LEU:HD22	2.46	0.49
1:BC:111:HIS:HE1	1:BC:124:LYS:HE2	1.78	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:263:THR:HG22	3:BM:311:VAL:CG2	2.42	0.49
9:BE:101:BCL:HMB3	9:BF:102:BCL:C4A	2.43	0.49
9:BF:102:BCL:CHD	9:BG:101:BCL:HMD2	2.39	0.49
4:BH:52:ARG:O	4:BH:54:LYS:N	2.45	0.49
6:BJ:17:PHE:HA	6:BJ:20:ILE:HG22	1.93	0.49
2:BL:144:ARG:CB	2:BL:145:PRO:HD3	2.41	0.49
5:BQ:35:ILE:HD12	9:BS:102:BCL:HMB1	1.94	0.49
5:BS:30:VAL:HG13	5:BS:31:LEU:H	1.76	0.49
14:BW:103:CRT:H36	5:B1:33:LEU:HA	1.94	0.49
5:BW:33:LEU:HD12	5:BW:34:LEU:N	2.27	0.49
4:BH:168:SER:HB3	4:BH:183:GLU:HB2	1.93	0.49
1:BC:53:ILE:C	1:BC:55:ALA:N	2.63	0.49
1:AC:91:THR:O	1:AC:92:ARG:C	2.51	0.49
1:BC:102:SER:C	1:BC:104:LYS:H	2.15	0.49
5:A1:20:VAL:O	5:A1:24:ILE:HG12	2.12	0.49
1:AC:236:MET:CA	1:AC:239:ILE:HD12	2.42	0.49
1:AC:293:ALA:O	1:AC:295:ARG:N	2.45	0.49
4:AH:16:ILE:HD13	4:AH:16:ILE:C	2.32	0.49
6:AJ:20:ILE:HG12	14:AJ:102:CRT:H83	1.93	0.49
3:AM:176:PRO:CD	3:AM:185:TRP:HB2	2.42	0.49
3:AM:202:HIS:C	3:AM:204:LEU:N	2.65	0.49
2:AL:137:TYR:CE2	9:AM:401:BCL:HBB1	2.47	0.49
5:AO:34:LEU:O	5:AO:34:LEU:HG	2.13	0.49
9:AO:102:BCL:CAD	9:AP:101:BCL:CAD	2.90	0.49
6:AP:17:PHE:HD1	14:AP:102:CRT:H6	1.78	0.49
5:AQ:10:LYS:HB2	14:AT:102:CRT:C8	2.39	0.49
5:AQ:31:LEU:CD2	9:AR:101:BCL:HED3	2.43	0.49
14:AT:102:CRT:H31	9:AU:102:BCL:HBA1	1.92	0.49
5:AU:44:LEU:HD13	6:AV:43:ARG:CD	2.42	0.49
6:B0:20:ILE:HG23	6:B0:21:PHE:N	2.27	0.49
9:BZ:101:BCL:C4A	9:B1:102:BCL:HMB3	2.43	0.49
6:B8:33:VAL:CG1	6:B8:34:ILE:N	2.75	0.49
1:BC:126:VAL:HG23	1:BC:127:SER:N	2.27	0.49
4:BH:113:PRO:HD2	4:BH:249:TYR:OH	2.13	0.49
2:BL:131:SER:O	2:BL:134:ILE:HB	2.11	0.49
3:BM:60:SER:N	3:BM:128:LEU:HD23	2.27	0.49
3:BM:84:PHE:CD1	3:BM:84:PHE:N	2.80	0.49
5:BY:12:TRP:HE1	6:BZ:18:HIS:CA	2.12	0.49
4:BH:154:MET:HB3	4:BH:207:ARG:O	2.12	0.49
5:A1:27:PHE:CD1	5:A1:27:PHE:C	2.85	0.49
4:BH:189:ASN:O	4:BH:191:LYS:HG3	2.11	0.49
5:AW:42:THR:HB	5:AY:48:ASP:HB2	1.95	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:B6:8:GLY:O	6:B6:9:LEU:HD23	2.12	0.49
4:AH:157:VAL:HG23	4:AH:210:LYS:HA	1.93	0.49
6:AT:20:ILE:HD13	6:AT:20:ILE:C	2.32	0.49
5:A7:37:MET:N	14:A7:102:CRT:H2M3	2.25	0.49
1:AC:210:ILE:O	1:AC:210:ILE:HG22	2.12	0.49
1:AC:265:LYS:O	1:AC:266:ARG:C	2.50	0.49
1:AC:270:TRP:CZ2	1:AC:274:ARG:NH1	2.80	0.49
4:AH:27:ILE:HD13	4:AH:27:ILE:O	2.12	0.49
2:AL:13:ARG:HA	4:AH:99:PRO:HB2	1.94	0.49
2:AL:168:ASN:O	2:AL:171:TYR:N	2.44	0.49
2:AL:237:ALA:HA	2:AL:240:ARG:CG	2.42	0.49
9:AL:303:BCL:HBB2	9:AL:303:BCL:HMB1	1.94	0.49
9:AL:303:BCL:OBB	14:AM:406:CRT:H243	2.12	0.49
3:AM:202:HIS:C	3:AM:204:LEU:H	2.15	0.49
2:AL:204:LEU:HD21	3:AM:267:ARG:NH1	2.28	0.49
5:AO:13:LEU:O	6:AP:7:THR:N	2.45	0.49
9:AS:103:BCL:C2D	9:AT:101:BCL:HMD2	2.42	0.49
6:AV:46:LEU:HB3	6:AX:42:TYR:CZ	2.47	0.49
5:AY:50:ASN:CG	5:AY:51:ILE:N	2.65	0.49
6:B0:21:PHE:CE1	6:B0:25:MET:HB2	2.48	0.49
6:B0:33:VAL:O	6:B0:37:LEU:CG	2.58	0.49
5:B1:29:ILE:O	5:B1:33:LEU:HG	2.12	0.49
5:B3:8:LEU:HD21	6:B6:24:SER:OG	2.13	0.49
9:B4:101:BCL:HHC	9:B4:101:BCL:OBB	2.12	0.49
5:B5:26:ALA:O	5:B5:29:ILE:HG22	2.12	0.49
5:B5:46:TRP:HA	5:B5:49:ASP:OD1	2.12	0.49
5:B9:36:HIS:NE2	9:B0:102:BCL:CMD	2.70	0.49
5:BA:11:ILE:CD1	5:BA:14:ILE:HD11	2.42	0.49
1:BC:121:ILE:HG22	1:BC:123:THR:H	1.78	0.49
1:BC:190:VAL:C	1:BC:192:TYR:N	2.65	0.49
1:BC:276:VAL:HG22	1:BC:280:ASN:HD22	1.77	0.49
5:BD:36:HIS:NE2	9:BE:101:BCL:CMD	2.76	0.49
4:BH:186:VAL:HG12	4:BH:187:ALA:N	2.24	0.49
9:BK:102:BCL:ND	9:BN:101:BCL:CMD	2.76	0.49
2:BL:138:LEU:C	2:BL:140:LEU:N	2.66	0.49
2:BL:106:PHE:CE1	9:BL:301:BCL:H121	2.48	0.49
3:BM:226:VAL:HG22	3:BM:229:PHE:HB2	1.94	0.49
3:BM:168:MET:HG2	3:BM:289:THR:CG2	2.41	0.49
6:BP:17:PHE:CA	6:BP:20:ILE:HG22	2.42	0.49
6:BP:29:PHE:CZ	9:BP:101:BCL:H42	2.48	0.49
5:BS:28:GLN:C	9:BS:102:BCL:H11	2.30	0.49
6:BX:36:HIS:HE1	9:BX:101:BCL:CHB	2.25	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BY:27:PHE:C	5:BY:27:PHE:CD1	2.86	0.49
9:BY:102:BCL:HBC1	9:BZ:101:BCL:HBC3	1.95	0.49
1:BC:242:SER:O	1:BC:313:ALA:N	2.46	0.49
5:BK:56:GLN:NE2	5:BK:57:ALA:H	2.09	0.49
6:AX:10:THR:H	6:AX:13:GLU:CD	2.16	0.49
5:A1:14:ILE:HD12	5:A1:15:LEU:HG	1.94	0.49
5:A1:46:TRP:CZ3	9:A1:102:BCL:H2C	2.48	0.49
5:A3:27:PHE:CD1	5:A3:27:PHE:C	2.85	0.49
5:A3:39:VAL:HA	5:A5:47:LEU:HD11	1.93	0.49
6:AB:18:HIS:HE1	6:AB:22:MET:CE	2.25	0.49
4:AH:232:THR:O	4:AH:235:GLU:HG2	2.12	0.49
2:AL:214:PRO:O	2:AL:216:LYS:N	2.46	0.49
2:AL:268:TRP:O	2:AL:270:GLU:N	2.46	0.49
1:AC:186:GLY:O	3:AM:89:HIS:HE1	1.95	0.49
6:AP:23:GLN:O	6:AP:24:SER:C	2.51	0.49
9:AS:103:BCL:HMB1	9:AS:103:BCL:HBB3	1.93	0.49
5:AW:31:LEU:HD22	14:AX:102:CRT:H32	1.95	0.49
9:AY:102:BCL:ND	9:AZ:101:BCL:CMD	2.76	0.49
6:B0:21:PHE:O	6:B0:24:SER:N	2.45	0.49
5:B1:38:ILE:HG23	5:B1:39:VAL:N	2.26	0.49
5:B7:33:LEU:N	5:B7:33:LEU:HD12	2.28	0.49
1:BC:138:ASN:HD21	1:BC:150:VAL:H	1.60	0.49
1:BC:138:ASN:ND2	1:BC:150:VAL:H	2.11	0.49
9:BD:102:BCL:CMD	6:BE:36:HIS:CD2	2.96	0.49
6:BE:29:PHE:CD1	9:BE:101:BCL:C1	2.95	0.49
2:BL:268:TRP:O	2:BL:270:GLU:N	2.45	0.49
3:BM:163:ILE:HG23	3:BM:285:LEU:HD11	1.94	0.49
3:BM:185:TRP:CH2	3:BM:189:PHE:CD1	3.00	0.49
3:BM:244:ALA:C	3:BM:246:GLU:N	2.66	0.49
3:BM:253:ARG:HB3	3:BM:254:TRP:HD1	1.77	0.49
3:BM:265:ILE:CD1	13:BM:405:MQ8:H143	2.42	0.49
3:BM:90:PHE:HA	3:BM:93:LEU:HD12	1.93	0.49
6:BR:45:TRP:CD1	6:BR:46:LEU:N	2.81	0.49
5:BS:9:TYR:CE1	6:BT:15:LYS:HG2	2.48	0.49
5:BY:30:VAL:O	5:BY:33:LEU:HG	2.13	0.49
5:B3:51:ILE:HB	5:B3:52:PRO:HA	1.95	0.49
6:BZ:29:PHE:O	6:BZ:33:VAL:HG12	2.13	0.49
6:A6:38:LEU:HD23	6:A6:38:LEU:C	2.32	0.49
6:A0:21:PHE:CE1	6:A0:25:MET:HB2	2.48	0.49
5:A1:10:LYS:HB3	14:A1:103:CRT:O1	2.13	0.49
6:A2:43:ARG:HD3	5:A3:55:TYR:CD2	2.48	0.49
5:A7:40:LEU:HD11	5:A7:47:LEU:HD23	1.93	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:A7:51:ILE:HB	5:A7:52:PRO:HA	1.94	0.49
6:A8:20:ILE:O	6:A8:23:GLN:CG	2.59	0.49
9:A9:102:BCL:CHA	9:A0:102:BCL:OBD	2.61	0.49
4:AH:119:ARG:O	4:AH:234:TYR:HB2	2.11	0.49
5:AI:30:VAL:HA	5:AI:33:LEU:CD2	2.43	0.49
5:AK:9:TYR:CD1	5:AK:9:TYR:C	2.86	0.49
2:AL:155:PHE:HA	2:AL:165:TRP:NE1	2.27	0.49
2:AL:188:PHE:HD2	2:AL:249:ALA:N	2.11	0.49
2:AL:276:LEU:O	3:AM:88:LYS:HE3	2.13	0.49
2:AL:120:LEU:HD21	3:AM:254:TRP:CZ2	2.47	0.49
9:AM:402:BCL:HHC	9:AM:402:BCL:OBB	2.13	0.49
3:AM:70:ILE:C	3:AM:72:GLY:N	2.65	0.49
15:AS:101:PEF:O1P	5:AU:22:VAL:HG21	2.13	0.49
5:B1:10:LYS:HB3	14:B1:103:CRT:H5	1.94	0.49
5:BY:49:ASP:CA	5:B1:56:GLN:HE22	2.26	0.49
5:BA:44:LEU:C	5:BA:44:LEU:HD12	2.31	0.49
14:BB:102:CRT:H2M2	5:BD:37:MET:HE3	1.90	0.49
6:BB:29:PHE:HE1	9:BB:101:BCL:C1	2.25	0.49
1:BC:270:TRP:O	1:BC:274:ARG:CD	2.61	0.49
1:BC:205:ASP:OD1	1:BC:304:ARG:CZ	2.60	0.49
6:BG:11:ASP:O	6:BG:15:LYS:HG3	2.12	0.49
6:BJ:45:TRP:CZ3	9:BJ:101:BCL:HAC2	2.47	0.49
9:BJ:101:BCL:HMB3	9:BK:102:BCL:C1B	2.42	0.49
5:BK:18:ARG:O	5:BK:22:VAL:HG12	2.13	0.49
2:BL:159:ILE:CD1	2:BL:159:ILE:H	2.24	0.49
5:BY:48:ASP:O	5:BY:49:ASP:CB	2.57	0.49
3:BM:11:VAL:HG11	4:BH:151:PRO:HD3	1.94	0.49
6:BE:42:TYR:CE2	6:BE:43:ARG:HG3	2.48	0.49
6:BX:38:LEU:HD23	6:BX:38:LEU:O	2.12	0.49
6:BB:38:LEU:HD23	6:BB:38:LEU:O	2.12	0.49
5:AY:11:ILE:CD1	9:A1:102:BCL:H151	2.30	0.49
6:A2:16:GLU:HB3	14:A2:102:CRT:C1M	2.41	0.49
6:A4:40:TRP:CZ3	6:A4:45:TRP:N	2.77	0.49
5:A9:24:ILE:HG21	14:A0:101:CRT:H243	1.95	0.49
1:AC:231:TRP:O	1:AC:232:THR:C	2.50	0.49
1:AC:259:TRP:O	1:AC:262:SER:N	2.45	0.49
1:AC:236:MET:HG3	7:AC:503:HEM:C4A	2.47	0.49
9:AG:101:BCL:OBB	9:AG:101:BCL:HHC	2.13	0.49
2:AL:13:ARG:HD2	4:AH:101:VAL:HG22	1.93	0.49
6:AG:46:LEU:HD13	6:AJ:42:TYR:CZ	2.48	0.49
6:AJ:46:LEU:HD13	6:AN:42:TYR:CE1	2.48	0.49
5:AK:49:ASP:OD2	6:AN:43:ARG:NH1	2.44	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:230:GLY:HA2	3:AM:51:ILE:CB	2.37	0.49
2:AL:238:ILE:CG2	2:AL:239:HIS:N	2.74	0.49
3:AM:131:VAL:O	3:AM:135:LYS:HB2	2.13	0.49
3:AM:264:SER:O	3:AM:265:ILE:C	2.50	0.49
2:AL:204:LEU:HD21	3:AM:267:ARG:CZ	2.43	0.49
9:AN:101:BCL:HHC	9:AN:101:BCL:OBB	2.12	0.49
6:AP:23:GLN:O	6:AP:26:TYR:N	2.46	0.49
6:AP:45:TRP:O	6:AP:46:LEU:HD23	2.13	0.49
14:AS:104:CRT:H2M3	5:AW:36:HIS:C	2.33	0.49
5:BA:33:LEU:HD12	5:BA:33:LEU:N	2.27	0.49
9:BB:101:BCL:CHB	9:BD:102:BCL:HMB3	2.42	0.49
1:BC:122:TYR:CA	1:BC:125:VAL:HG23	2.38	0.49
1:BC:138:ASN:HB3	1:BC:331:TYR:CE1	2.48	0.49
1:BC:190:VAL:C	1:BC:192:TYR:H	2.16	0.49
1:BC:41:GLU:OE1	1:BC:43:TYR:OH	2.21	0.49
5:BF:38:ILE:HG23	5:BF:39:VAL:HG23	1.95	0.49
6:BG:20:ILE:HG23	6:BG:21:PHE:N	2.28	0.49
4:BH:27:ILE:HG23	4:BH:28:ILE:N	2.28	0.49
2:BL:129:ALA:CB	2:BL:247:LEU:HD11	2.42	0.49
2:BL:78:PRO:O	2:BL:152:GLY:HA3	2.13	0.49
3:BM:218:MET:O	3:BM:221:ALA:N	2.46	0.49
6:BP:23:GLN:O	6:BP:26:TYR:N	2.46	0.49
14:BW:103:CRT:H6	6:BZ:17:PHE:HD1	1.77	0.49
5:BY:51:ILE:HB	5:BY:52:PRO:CA	2.42	0.49
3:BM:41:GLY:HA3	3:BM:46:ALA:CB	2.38	0.49
5:BD:50:ASN:CG	5:BD:51:ILE:N	2.66	0.49
6:AR:13:GLU:OE2	6:AR:13:GLU:N	2.46	0.49
4:AH:185:GLU:HB2	4:AH:192:LYS:NZ	2.27	0.49
1:AC:66:ASP:C	1:AC:68:THR:H	2.16	0.49
4:BH:108:LEU:HD23	4:BH:108:LEU:N	2.28	0.49
5:A7:14:ILE:HG22	5:A7:14:ILE:O	2.12	0.49
1:AC:184:ASN:HD21	3:AM:96:GLU:HG2	1.77	0.49
6:A0:40:TRP:HE3	6:A0:40:TRP:HA	1.78	0.49
5:AA:32:GLY:HA2	9:AB:101:BCL:HED2	1.95	0.49
1:AC:166:TRP:O	1:AC:166:TRP:CD2	2.66	0.49
1:AC:298:PRO:C	1:AC:300:GLY:N	2.66	0.49
5:AD:32:GLY:HA3	9:AD:102:BCL:O1A	2.13	0.49
6:AE:45:TRP:O	6:AE:46:LEU:CG	2.58	0.49
6:AE:46:LEU:O	5:AF:46:TRP:O	2.30	0.49
5:AI:34:LEU:O	5:AI:37:MET:HB2	2.12	0.49
5:AI:50:ASN:HA	5:AK:60:LYS:HA	1.94	0.49
2:AL:3:MET:HG2	2:AL:11:ARG:CZ	2.42	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:13:ARG:HA	4:AH:99:PRO:CB	2.42	0.49
2:AL:71:TRP:O	2:AL:160:LEU:HG	2.13	0.49
2:AL:244:PHE:O	2:AL:245:LEU:C	2.50	0.49
3:AM:221:ALA:O	3:AM:222:THR:C	2.51	0.49
3:AM:275:LEU:HA	3:AM:278:ILE:HD12	1.93	0.49
9:AO:102:BCL:C1D	9:AP:101:BCL:C2D	2.90	0.49
5:AS:12:TRP:HE1	6:AT:18:HIS:HD1	1.59	0.49
9:AW:101:BCL:HHC	9:AW:101:BCL:OBB	2.12	0.49
5:AY:36:HIS:NE2	9:AZ:101:BCL:CMD	2.72	0.49
5:B9:35:ILE:CG1	9:B0:102:BCL:O1D	2.58	0.49
5:BY:49:ASP:CB	5:B1:56:GLN:HE22	2.24	0.49
5:B7:42:THR:O	5:B7:43:ASP:C	2.50	0.49
5:B7:43:ASP:OD2	5:B9:47:LEU:HD13	2.12	0.49
1:BC:196:PRO:HG3	1:BC:231:TRP:NE1	2.28	0.49
5:BI:39:VAL:HG12	5:BI:46:TRP:HZ3	1.78	0.49
3:BM:199:ASN:HB2	3:BM:294:TRP:CG	2.48	0.49
5:BW:10:LYS:HD2	6:BZ:20:ILE:CD1	2.42	0.49
6:BX:10:THR:N	6:BX:13:GLU:OE1	2.37	0.49
5:BI:15:LEU:N	5:BI:15:LEU:HD22	2.28	0.49
5:A9:17:PRO:O	5:A9:21:LEU:CB	2.61	0.49
5:B9:33:LEU:H	5:B9:33:LEU:HD12	1.78	0.49
3:BM:74:ASN:ND2	3:BM:95:LEU:HD13	2.28	0.49
5:A5:40:LEU:HD11	5:A5:47:LEU:HB2	1.95	0.49
5:A5:5:ASN:HA	5:A5:8:LEU:CD1	2.42	0.49
5:AA:47:LEU:N	5:AA:47:LEU:HD22	2.27	0.49
1:AC:236:MET:HG3	7:AC:503:HEM:CHB	2.43	0.49
6:AB:44:PRO:HG2	5:AD:52:PRO:HB3	1.93	0.49
5:AF:38:ILE:HD13	14:AG:102:CRT:H401	1.93	0.49
4:AH:46:THR:HG22	4:AH:47:GLU:N	2.28	0.49
2:AL:175:HIS:CD2	2:AL:178:TYR:CE2	3.01	0.49
2:AL:253:SER:HB2	9:AL:301:BCL:C2A	2.37	0.49
2:AL:273:ASN:O	2:AL:274:TRP:C	2.51	0.49
2:AL:89:LEU:N	2:AL:89:LEU:HD12	2.26	0.49
2:AL:89:LEU:HB3	2:AL:94:LEU:HB2	1.95	0.49
3:AM:157:TYR:CD1	3:AM:158:LEU:HD23	2.47	0.49
3:AM:286:LEU:O	3:AM:290:VAL:HB	2.12	0.49
5:AO:51:ILE:HG12	5:AO:52:PRO:CD	2.40	0.49
9:AP:101:BCL:CBB	9:AP:101:BCL:HMB1	2.43	0.49
5:AS:47:LEU:H	5:AS:47:LEU:CD2	2.24	0.49
6:AV:45:TRP:O	6:AV:46:LEU:CB	2.60	0.49
5:AW:10:LYS:HZ3	14:AW:102:CRT:H1M2	1.77	0.49
5:AY:26:ALA:O	5:AY:30:VAL:HG23	2.13	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:B2:29:PHE:HE1	9:B2:101:BCL:C2	2.25	0.49
9:B2:101:BCL:HHC	9:B2:101:BCL:OBB	2.12	0.49
5:B3:39:VAL:CG1	5:B3:44:LEU:HG	2.43	0.49
9:B5:102:BCL:HHC	9:B5:102:BCL:OBB	2.13	0.49
5:B7:29:ILE:O	5:B7:33:LEU:CD1	2.61	0.49
6:B8:28:TRP:HA	6:B8:31:LEU:HD12	1.94	0.49
9:BA:101:BCL:HBB1	9:B0:102:BCL:CMC	2.42	0.49
1:BC:165:ALA:HB1	1:BC:303:LEU:CB	2.30	0.49
1:BC:212:ILE:H	7:BC:503:HEM:CGA	2.26	0.49
5:BD:30:VAL:O	5:BD:34:LEU:N	2.42	0.49
9:BF:102:BCL:C1D	9:BG:101:BCL:CMD	2.81	0.49
2:BL:30:PHE:CD2	3:BM:255:THR:O	2.66	0.49
3:BM:150:PHE:CE1	3:BM:154:ILE:HD11	2.48	0.49
6:BT:45:TRP:CD1	6:BT:46:LEU:N	2.81	0.49
3:BM:84:PHE:CD1	5:BW:37:MET:HE2	2.48	0.49
14:BV:102:CRT:H2M2	5:BW:37:MET:HG2	1.94	0.49
5:BW:44:LEU:HD13	5:BY:56:GLN:HB3	1.95	0.49
5:B3:56:GLN:N	5:B3:56:GLN:HE21	2.10	0.49
6:BB:44:PRO:HB2	5:BD:52:PRO:HG3	1.95	0.49
4:BH:242:TYR:O	4:BH:243:TYR:C	2.50	0.49
5:AY:39:VAL:HG22	5:A1:47:LEU:HD11	1.95	0.48
5:A5:5:ASN:HA	5:A5:8:LEU:CG	2.42	0.48
6:A6:17:PHE:CD1	6:A6:17:PHE:C	2.87	0.48
5:A9:31:LEU:HD11	5:A9:35:ILE:HD11	1.95	0.48
5:A7:43:ASP:CB	5:A9:47:LEU:HD12	2.31	0.48
14:AA:102:CRT:H81	6:AE:20:ILE:HG21	1.94	0.48
9:AA:101:BCL:CED	6:AB:31:LEU:HB3	2.43	0.48
1:AC:151:THR:HG21	1:AC:323:MET:CB	2.43	0.48
5:AI:28:GLN:O	9:AJ:101:BCL:HED1	2.12	0.48
2:AL:203:ILE:C	2:AL:205:SER:N	2.66	0.48
2:AL:204:LEU:HD21	3:AM:267:ARG:CD	2.41	0.48
2:AL:220:HIS:O	2:AL:223:THR:HG23	2.13	0.48
3:AM:194:GLY:H	3:AM:293:ASN:HA	1.78	0.48
2:AL:10:TYR:CZ	3:AM:246:GLU:HG2	2.48	0.48
3:AM:248:ALA:O	3:AM:249:ALA:C	2.51	0.48
6:AN:32:VAL:HG11	9:AN:101:BCL:HBA2	1.94	0.48
6:AN:43:ARG:HD2	5:AO:55:TYR:CE2	2.48	0.48
5:AO:11:ILE:HG22	5:AO:15:LEU:CD1	2.42	0.48
6:AP:46:LEU:HD13	6:AR:42:TYR:OH	2.12	0.48
5:AY:51:ILE:HA	5:AY:52:PRO:C	2.33	0.48
6:B2:21:PHE:CB	14:B2:102:CRT:C11	2.90	0.48
5:B3:19:ARG:O	5:B3:23:SER:N	2.44	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:B5:14:ILE:HG22	5:B5:14:ILE:O	2.11	0.48
9:B7:103:BCL:OBB	9:B7:103:BCL:HHC	2.13	0.48
2:BL:41:CYS:HA	5:B9:30:VAL:CG2	2.42	0.48
6:BB:24:SER:HA	5:B9:4:MET:HE2	1.95	0.48
1:BC:167:VAL:CG2	1:BC:298:PRO:HD2	2.38	0.48
5:BD:31:LEU:O	5:BD:35:ILE:N	2.39	0.48
9:BI:102:BCL:HMD2	9:BJ:101:BCL:C1D	2.43	0.48
2:BL:137:TYR:HD1	2:BL:138:LEU:HD12	1.78	0.48
2:BL:253:SER:O	2:BL:256:CYS:HB3	2.13	0.48
3:BM:173:LYS:O	3:BM:185:TRP:HZ2	1.96	0.48
3:BM:202:HIS:C	3:BM:204:LEU:N	2.66	0.48
2:BL:243:LEU:HD12	3:BM:217:ALA:O	2.13	0.48
9:BW:102:BCL:CHA	9:BX:101:BCL:OBD	2.60	0.48
6:BZ:40:TRP:HB2	6:BZ:45:TRP:CH2	2.47	0.48
6:BZ:44:PRO:O	5:B1:55:TYR:CZ	2.66	0.48
5:BS:45:ASN:O	5:BS:49:ASP:CG	2.51	0.48
1:BC:94:MET:SD	7:BC:501:HEM:NB	2.86	0.48
5:AK:35:ILE:HA	5:AK:38:ILE:HG22	1.95	0.48
5:BF:33:LEU:CD1	5:BF:33:LEU:H	2.24	0.48
6:BT:27:ALA:O	6:BT:31:LEU:HG	2.13	0.48
3:AM:196:LEU:O	3:AM:198:TYR:N	2.46	0.48
4:BH:138:VAL:HA	4:BH:140:LYS:HZ2	1.77	0.48
9:A9:102:BCL:ND	9:A0:102:BCL:CMD	2.76	0.48
5:A1:40:LEU:HG	5:A1:40:LEU:O	2.12	0.48
9:A3:104:BCL:C1B	9:A5:102:BCL:HMB3	2.43	0.48
14:A5:103:CRT:C7	6:A8:17:PHE:HZ	2.26	0.48
5:A5:25:VAL:HG13	9:A5:102:BCL:H51	1.96	0.48
14:A5:103:CRT:C32	5:A7:31:LEU:HD21	2.43	0.48
5:A7:36:HIS:CB	14:A7:102:CRT:C39	2.90	0.48
6:A8:28:TRP:HA	6:A8:31:LEU:HD12	1.94	0.48
1:AC:274:ARG:HH11	1:AC:274:ARG:CG	2.24	0.48
5:AD:30:VAL:HG13	5:AD:31:LEU:N	2.28	0.48
5:AA:8:LEU:CD2	6:AE:20:ILE:HG23	2.41	0.48
5:AF:28:GLN:CB	9:AF:102:BCL:H12	2.27	0.48
6:AJ:17:PHE:CZ	14:AJ:102:CRT:H6	2.48	0.48
2:AL:110:ALA:HB2	2:AL:134:ILE:HD11	1.95	0.48
2:AL:182:HIS:HA	2:AL:256:CYS:SG	2.54	0.48
9:AL:303:BCL:HBC1	9:AM:402:BCL:CAD	2.43	0.48
3:AM:210:TYR:O	3:AM:214:LEU:N	2.46	0.48
3:AM:98:PRO:CG	3:AM:107:PRO:HG3	2.44	0.48
6:AR:20:ILE:C	6:AR:20:ILE:HD13	2.33	0.48
6:AT:45:TRP:CD2	9:AT:101:BCL:H2C	2.48	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AU:8:LEU:O	5:AU:10:LYS:N	2.46	0.48
5:AU:28:GLN:OE1	6:AV:28:TRP:CZ2	2.66	0.48
5:AW:36:HIS:CE1	9:AX:101:BCL:CMD	2.79	0.48
6:B0:40:TRP:CH2	6:B0:46:LEU:CG	2.83	0.48
5:B1:56:GLN:O	5:B1:60:LYS:N	2.39	0.48
5:B3:12:TRP:HA	5:B3:12:TRP:HE3	1.78	0.48
6:B6:17:PHE:CD1	6:B6:17:PHE:C	2.87	0.48
6:BB:24:SER:HA	5:B9:4:MET:CE	2.42	0.48
1:BC:137:ALA:O	1:BC:139:SER:N	2.46	0.48
1:BC:183:GLN:NE2	1:BC:230:GLU:HG2	2.28	0.48
1:BC:200:LEU:O	1:BC:204:LEU:N	2.45	0.48
1:BC:203:PHE:CG	1:BC:235:LEU:HD22	2.48	0.48
4:BH:76:VAL:HG12	4:BH:77:VAL:N	2.27	0.48
5:BI:17:PRO:HG3	6:BJ:9:LEU:HD11	1.94	0.48
2:BL:115:GLU:O	2:BL:118:ARG:HB2	2.13	0.48
2:BL:195:ALA:O	2:BL:198:MET:N	2.47	0.48
2:BL:52:TRP:HE3	2:BL:52:TRP:HA	1.76	0.48
6:BN:44:PRO:HD2	5:BO:55:TYR:HH	1.78	0.48
5:BS:35:ILE:O	5:BS:39:VAL:HG23	2.13	0.48
5:BU:38:ILE:HD12	14:BV:102:CRT:H401	1.94	0.48
6:B6:45:TRP:O	6:B6:46:LEU:C	2.51	0.48
1:AC:47:ARG:HG2	1:AC:47:ARG:O	2.12	0.48
6:BR:28:TRP:CE3	6:BR:28:TRP:HA	2.46	0.48
1:BC:213:THR:HG22	1:BC:214:GLY:O	2.13	0.48
5:BW:54:SER:CB	5:BW:57:ALA:HB3	2.43	0.48
5:A7:10:LYS:HB3	14:A0:101:CRT:H83	1.94	0.48
9:A5:102:BCL:OBB	9:A5:102:BCL:HHC	2.12	0.48
5:A9:2:PHE:CE1	6:A0:26:TYR:OH	2.66	0.48
1:AC:124:LYS:O	1:AC:125:VAL:C	2.51	0.48
9:AD:102:BCL:OBD	6:AE:32:VAL:HG23	2.14	0.48
5:AF:43:ASP:CB	5:AI:47:LEU:HG	2.42	0.48
3:AM:264:SER:HB3	4:AH:34:ASP:HA	1.94	0.48
2:AL:142:PHE:HD1	2:AL:143:VAL:N	2.11	0.48
9:AL:301:BCL:H202	10:AL:302:BPH:HMA3	1.94	0.48
2:AL:6:PHE:O	2:AL:9:LYS:HG2	2.12	0.48
3:AM:103:GLY:O	3:AM:171:TRP:N	2.47	0.48
2:AL:196:LEU:HD23	3:AM:216:PHE:CD1	2.48	0.48
3:AM:221:ALA:O	3:AM:224:LEU:N	2.46	0.48
5:AO:44:LEU:HD12	5:AO:44:LEU:C	2.34	0.48
6:AP:31:LEU:C	6:AP:34:ILE:HG23	2.33	0.48
5:AS:33:LEU:O	15:AS:101:PEF:H453	2.12	0.48
9:AT:101:BCL:H151	9:AT:101:BCL:HBB2	1.95	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AS:103:BCL:OBD	6:AT:32:VAL:HG23	2.13	0.48
9:AV:102:BCL:H191	9:AW:101:BCL:CMC	2.39	0.48
6:AX:36:HIS:HE1	9:AX:101:BCL:NB	2.06	0.48
5:B3:9:TYR:OH	5:B3:10:LYS:HE3	2.13	0.48
9:B7:103:BCL:HAC2	9:B8:101:BCL:HAC1	1.95	0.48
5:B9:29:ILE:HA	9:B9:102:BCL:H11	1.96	0.48
9:BE:101:BCL:HMA1	9:BF:102:BCL:CMA	2.37	0.48
4:BH:52:ARG:CZ	4:BH:52:ARG:HB3	2.43	0.48
5:BF:38:ILE:CD1	5:BI:37:MET:HE3	2.43	0.48
5:BI:9:TYR:HA	6:BJ:18:HIS:CG	2.48	0.48
5:BK:26:ALA:HA	5:BK:29:ILE:CG2	2.44	0.48
1:BC:253:THR:CG2	2:BL:171:TYR:HD2	2.26	0.48
2:BL:196:LEU:C	2:BL:198:MET:H	2.16	0.48
3:BM:297:TRP:CZ2	4:BH:13:GLN:HB2	2.49	0.48
5:BQ:36:HIS:CD2	9:BQ:103:BCL:NB	2.81	0.48
6:BR:29:PHE:N	6:BR:29:PHE:HD1	2.06	0.48
5:BS:47:LEU:H	5:BS:47:LEU:HD22	1.78	0.48
6:BT:28:TRP:HA	6:BT:28:TRP:CE3	2.47	0.48
5:BW:12:TRP:HA	5:BW:12:TRP:CE3	2.48	0.48
6:B8:44:PRO:HG2	5:B9:52:PRO:HB2	1.96	0.48
1:AC:148:THR:HA	1:AC:322:GLN:CG	2.43	0.48
4:BH:151:PRO:O	4:BH:167:VAL:HG21	2.13	0.48
5:B7:19:ARG:O	5:B7:23:SER:CB	2.60	0.48
1:BC:53:ILE:HG12	1:BC:319:TYR:CZ	2.48	0.48
3:AM:27:ASN:HD22	3:AM:27:ASN:N	2.11	0.48
1:BC:66:ASP:C	1:BC:68:THR:H	2.17	0.48
4:AH:156:VAL:HG12	4:AH:157:VAL:N	2.27	0.48
1:AC:306:SER:OG	1:AC:307:CYS:N	2.46	0.48
3:AM:264:SER:HB2	4:AH:34:ASP:OD1	2.13	0.48
4:AH:5:ILE:CD1	5:AF:47:LEU:CD1	2.89	0.48
9:AI:102:BCL:CBC	9:AJ:101:BCL:HHD	2.43	0.48
2:AL:207:THR:HA	2:AL:215:VAL:HG13	1.94	0.48
3:AM:98:PRO:HA	3:AM:112:GLY:HA3	1.95	0.48
6:AN:22:MET:O	6:AN:25:MET:HB3	2.13	0.48
6:AN:36:HIS:HD1	9:AN:101:BCL:H162	1.77	0.48
6:AT:45:TRP:CZ3	9:AT:101:BCL:HAC2	2.49	0.48
5:AY:28:GLN:HB3	9:AY:102:BCL:C1	2.43	0.48
5:B9:40:LEU:HD12	5:B9:45:ASN:HA	1.94	0.48
1:BC:124:LYS:O	1:BC:125:VAL:C	2.51	0.48
6:BE:46:LEU:N	5:BF:52:PRO:HD3	2.28	0.48
9:BG:101:BCL:CBB	9:BI:102:BCL:C4B	2.88	0.48
5:BK:16:ASP:HB2	5:BK:19:ARG:CD	2.44	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:164:ASP:O	2:BL:166:VAL:N	2.46	0.48
3:BM:133:THR:O	3:BM:137:ALA:N	2.40	0.48
3:BM:179:ILE:O	3:BM:183:LEU:N	2.43	0.48
5:BS:42:THR:CG2	5:BS:43:ASP:N	2.76	0.48
6:BV:45:TRP:CZ3	9:BV:101:BCL:HAC2	2.48	0.48
3:BM:84:PHE:CE1	5:BW:37:MET:HG2	2.47	0.48
2:AL:22:LEU:CB	5:A7:19:ARG:HB3	2.34	0.48
1:AC:138:ASN:HB3	1:AC:331:TYR:CD1	2.48	0.48
4:AH:178:GLN:NE2	4:AH:180:ARG:CZ	2.77	0.48
1:BC:98:THR:O	1:BC:103:PRO:CD	2.58	0.48
1:AC:66:ASP:OD2	1:AC:88:GLY:HA3	2.13	0.48
5:A1:54:SER:CB	5:A1:57:ALA:HB2	2.44	0.48
4:BH:150:ASP:OD1	4:BH:152:ARG:HB2	2.13	0.48
6:AN:7:THR:OG1	6:AN:8:GLY:N	2.45	0.48
5:A9:12:TRP:CD1	6:A0:18:HIS:HB2	2.47	0.48
6:A0:21:PHE:O	6:A0:24:SER:N	2.45	0.48
5:A9:13:LEU:O	6:A0:7:THR:CB	2.61	0.48
5:A1:10:LYS:HB2	14:A1:103:CRT:C8	2.37	0.48
5:A1:49:ASP:O	5:A1:50:ASN:HB3	2.13	0.48
5:A3:35:ILE:O	5:A3:36:HIS:C	2.52	0.48
5:A3:50:ASN:O	5:A3:54:SER:N	2.45	0.48
9:A7:103:BCL:OBD	6:A8:32:VAL:HG22	2.12	0.48
1:AC:314:VAL:HG12	1:AC:315:ASN:H	1.79	0.48
4:AH:154:MET:HB3	4:AH:207:ARG:O	2.13	0.48
4:AH:48:ARG:HD3	15:AH:301:PEF:C4	2.41	0.48
4:AH:6:THR:HB	5:AF:41:SER:OG	2.13	0.48
6:AJ:34:ILE:C	6:AJ:34:ILE:HD13	2.34	0.48
2:AL:199:HIS:CE1	2:AL:239:HIS:CE1	3.01	0.48
2:AL:231:TYR:CZ	2:AL:233:ILE:HA	2.49	0.48
2:AL:243:LEU:O	2:AL:247:LEU:HB2	2.14	0.48
3:AM:182:HIS:ND1	3:AM:183:LEU:N	2.61	0.48
3:AM:204:LEU:HD23	3:AM:279:THR:CG2	2.43	0.48
3:AM:83:VAL:O	3:AM:86:PHE:HB3	2.14	0.48
6:AP:7:THR:OG1	6:AP:8:GLY:N	2.45	0.48
5:AU:26:ALA:C	5:AU:29:ILE:HG22	2.32	0.48
5:AU:35:ILE:HA	5:AU:38:ILE:CG2	2.44	0.48
5:AW:10:LYS:HB3	14:AW:102:CRT:H5	1.95	0.48
5:AY:4:MET:C	5:AY:8:LEU:HB2	2.33	0.48
5:B1:13:LEU:CD1	14:B1:103:CRT:H1M3	2.43	0.48
5:B1:11:ILE:N	14:B1:103:CRT:H82	2.16	0.48
6:B2:28:TRP:O	6:B2:32:VAL:HG23	2.13	0.48
5:B7:49:ASP:OD2	6:B8:43:ARG:NH1	2.45	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:B9:102:BCL:H12	9:B0:102:BCL:HED1	1.94	0.48
9:BA:101:BCL:HBB3	9:B0:102:BCL:C1C	2.43	0.48
6:BB:28:TRP:O	6:BB:31:LEU:N	2.46	0.48
1:BC:232:THR:O	1:BC:233:PHE:C	2.52	0.48
5:BD:12:TRP:HE1	6:BE:18:HIS:HA	1.78	0.48
6:BE:21:PHE:HD1	6:BE:22:MET:N	2.12	0.48
14:BF:103:CRT:H401	5:BI:38:ILE:CD1	2.44	0.48
9:BG:101:BCL:OBB	9:BG:101:BCL:HHC	2.14	0.48
6:BG:21:PHE:HZ	9:BI:102:BCL:H202	1.79	0.48
9:BG:101:BCL:C3B	9:BI:102:BCL:C3B	2.90	0.48
5:BF:7:ASN:CB	6:BJ:20:ILE:HD13	2.42	0.48
2:BL:229:VAL:C	3:BM:51:ILE:HD12	2.34	0.48
9:BL:303:BCL:HBB2	9:BM:402:BCL:H111	1.95	0.48
5:BO:40:LEU:HD23	5:BO:40:LEU:O	2.13	0.48
5:BS:46:TRP:NE1	9:BS:102:BCL:OBB	2.47	0.48
5:BU:12:TRP:CE2	6:BV:17:PHE:HE2	2.14	0.48
5:BY:53:VAL:C	5:BY:55:TYR:H	2.17	0.48
5:AF:16:ASP:HB2	5:AF:19:ARG:CB	2.44	0.48
5:AY:18:ARG:HG2	5:AY:18:ARG:NH1	2.27	0.48
1:BC:53:ILE:C	1:BC:55:ALA:H	2.17	0.48
1:BC:107:CYS:C	1:BC:109:TYR:H	2.17	0.48
4:BH:108:LEU:C	4:BH:110:GLY:N	2.65	0.48
5:BS:21:LEU:O	5:BS:25:VAL:HG23	2.13	0.48
4:AH:9:ILE:O	4:AH:9:ILE:HG23	2.14	0.48
9:A1:102:BCL:C2D	9:A2:101:BCL:C2D	2.91	0.48
2:AL:129:ALA:CA	2:AL:247:LEU:HD11	2.38	0.48
3:AM:156:PHE:HZ	9:AM:402:BCL:HBD	1.78	0.48
3:AM:161:GLY:HA3	14:AM:406:CRT:C29	2.43	0.48
3:AM:7:ILE:HG22	3:AM:8:PHE:CG	2.48	0.48
6:AR:42:TYR:CE2	6:AR:43:ARG:HG3	2.48	0.48
9:AU:102:BCL:HBC1	9:AV:102:BCL:HBC3	1.94	0.48
6:AV:21:PHE:O	6:AV:21:PHE:CD1	2.67	0.48
9:AV:102:BCL:H203	6:AX:39:ALA:HB1	1.96	0.48
6:B0:45:TRP:CD1	6:B0:46:LEU:N	2.80	0.48
6:B2:33:VAL:O	6:B2:37:LEU:HD23	2.13	0.48
9:BI:102:BCL:CMD	6:BJ:36:HIS:CD2	2.96	0.48
2:BL:102:ALA:HB2	10:BL:302:BPH:H112	1.95	0.48
2:BL:139:VAL:HG23	2:BL:143:VAL:CB	2.43	0.48
2:BL:231:TYR:CZ	2:BL:233:ILE:HA	2.49	0.48
2:BL:253:SER:CB	9:BL:301:BCL:HED3	2.42	0.48
3:BM:122:LEU:HD13	9:BM:402:BCL:H203	1.96	0.48
3:BM:61:ILE:HG12	3:BM:129:TRP:CZ3	2.47	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:BN:101:BCL:OBB	9:BN:101:BCL:HHC	2.13	0.48
6:BT:29:PHE:HD1	6:BT:29:PHE:H	1.58	0.48
14:BV:102:CRT:H2M2	5:BW:37:MET:CG	2.44	0.48
9:BX:101:BCL:HHC	9:BX:101:BCL:OBB	2.13	0.48
5:BY:32:GLY:HA2	9:BZ:101:BCL:O1D	2.13	0.48
5:BF:4:MET:CG	6:BJ:23:GLN:CG	2.76	0.48
2:AL:80:LEU:HD21	2:AL:153:HIS:CD2	2.47	0.48
3:AM:14:ARG:HH12	4:AH:145:ALA:CB	2.27	0.48
6:BB:44:PRO:HG2	5:BD:52:PRO:CB	2.44	0.48
6:AV:19:ALA:O	6:AV:23:GLN:HG3	2.13	0.48
5:AF:17:PRO:HG2	5:AF:18:ARG:H	1.79	0.48
1:AC:37:GLY:HA3	2:AL:77:PRO:HG2	1.95	0.48
1:BC:120:ASP:O	1:BC:120:ASP:CG	2.52	0.48
5:AK:51:ILE:O	5:AK:51:ILE:HG13	2.13	0.48
5:A1:21:LEU:CD1	9:A1:102:BCL:C14	2.88	0.48
5:AY:27:PHE:HE2	5:A1:29:ILE:CD1	2.27	0.48
5:A3:19:ARG:HH21	5:A3:20:VAL:HG23	1.79	0.48
1:AC:152:CYS:O	1:AC:156:HIS:HB2	2.13	0.48
6:AG:34:ILE:O	6:AG:38:LEU:HB3	2.13	0.48
4:AH:259:LEU:CD2	5:A5:19:ARG:HB3	2.42	0.48
4:AH:5:ILE:HG12	4:AH:6:THR:HG23	1.94	0.48
5:AI:28:GLN:NE2	14:AJ:102:CRT:H25	2.29	0.48
14:AG:102:CRT:H2M1	5:AI:36:HIS:HB3	1.95	0.48
9:AI:102:BCL:OBD	6:AJ:32:VAL:HG13	2.14	0.48
5:AK:12:TRP:NE1	6:AN:17:PHE:CD2	2.69	0.48
5:AK:46:TRP:CH2	9:AK:102:BCL:HBC3	2.49	0.48
2:AL:207:THR:CB	3:AM:238:ILE:HG21	2.44	0.48
2:AL:221:GLU:O	2:AL:223:THR:N	2.46	0.48
2:AL:242:GLY:O	2:AL:243:LEU:C	2.51	0.48
3:AM:10:ALA:HA	15:AM:408:PEF:C4	2.44	0.48
3:AM:121:PHE:N	3:AM:121:PHE:CD1	2.79	0.48
3:AM:137:ALA:O	3:AM:140:LEU:HB3	2.12	0.48
3:AM:284:ILE:HG13	9:AM:402:BCL:OBD	2.14	0.48
3:AM:35:ILE:HG13	15:AM:409:PEF:H321	1.96	0.48
3:AM:4:TYR:CE1	3:AM:6:ASN:HA	2.47	0.48
5:AW:46:TRP:HA	5:AW:49:ASP:OD1	2.14	0.48
9:AX:101:BCL:H3A	9:AX:101:BCL:HBA1	1.53	0.48
5:B3:12:TRP:HA	5:B3:12:TRP:CE3	2.49	0.48
6:B4:18:HIS:O	6:B4:18:HIS:CD2	2.67	0.48
6:B4:21:PHE:CZ	9:B5:102:BCL:H203	2.48	0.48
6:BG:28:TRP:C	6:BG:30:GLY:N	2.66	0.48
5:BK:16:ASP:HB2	5:BK:19:ARG:CG	2.44	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:132:PHE:CD2	2:BL:247:LEU:HD13	2.49	0.48
2:BL:151:TRP:C	2:BL:153:HIS:N	2.67	0.48
2:BL:154:GLY:O	2:BL:165:TRP:NE1	2.46	0.48
2:BL:207:THR:CB	3:BM:238:ILE:HG21	2.43	0.48
2:BL:105:ALA:HB1	10:BL:302:BPH:H2	1.94	0.48
3:BM:170:SER:OG	3:BM:173:LYS:HD3	2.14	0.48
6:BT:21:PHE:C	6:BT:21:PHE:CD1	2.87	0.48
14:BU:103:CRT:C2M	5:BY:36:HIS:HB2	2.43	0.48
5:BU:45:ASN:O	5:BU:49:ASP:HB3	2.13	0.48
6:BE:24:SER:O	6:BE:27:ALA:HB3	2.14	0.48
1:BC:33:ILE:CD1	1:BC:33:ILE:H	2.24	0.48
1:BC:66:ASP:O	1:BC:67:SER:HB3	2.14	0.48
4:AH:108:LEU:O	4:AH:110:GLY:N	2.46	0.48
4:BH:2:SER:HA	16:BH:301:PO4:O3	2.14	0.48
1:AC:120:ASP:O	1:AC:120:ASP:CG	2.52	0.48
5:A1:39:VAL:HG11	9:A1:102:BCL:HBC1	1.95	0.48
6:A6:28:TRP:C	6:A6:30:GLY:H	2.17	0.48
6:AE:24:SER:O	6:AE:27:ALA:HB3	2.14	0.48
4:AH:77:VAL:O	4:AH:80:ARG:CD	2.56	0.48
9:AI:102:BCL:ND	9:AJ:101:BCL:CMD	2.76	0.48
2:AL:261:GLY:O	2:AL:263:PHE:N	2.47	0.48
2:AL:50:ILE:HA	2:AL:98:ILE:HD11	1.96	0.48
3:AM:229:PHE:CE2	3:AM:247:ARG:NE	2.81	0.48
3:AM:55:LEU:O	3:AM:59:LEU:N	2.43	0.48
3:AM:75:MET:HG3	3:AM:94:GLY:H	1.79	0.48
9:AN:101:BCL:H3A	9:AN:101:BCL:HBA1	1.46	0.48
5:AQ:35:ILE:CA	5:AQ:38:ILE:HG22	2.36	0.48
5:AU:36:HIS:O	5:AU:40:LEU:HB2	2.13	0.48
5:B1:29:ILE:HG23	5:B1:30:VAL:N	2.28	0.48
9:B7:103:BCL:H12	9:B8:101:BCL:HED1	1.96	0.48
1:BC:235:LEU:C	1:BC:237:MET:N	2.67	0.48
1:BC:274:ARG:HH11	1:BC:274:ARG:HG2	1.77	0.48
4:BH:54:LYS:O	4:BH:55:VAL:C	2.52	0.48
5:BK:26:ALA:CA	5:BK:29:ILE:HG22	2.43	0.48
5:BK:46:TRP:CZ3	9:BK:102:BCL:HBC3	2.48	0.48
2:BL:171:TYR:C	2:BL:173:PHE:N	2.66	0.48
2:BL:239:HIS:O	3:BM:224:LEU:HD11	2.13	0.48
3:BM:180:PHE:O	3:BM:184:ASP:OD1	2.31	0.48
3:BM:79:VAL:HG13	3:BM:79:VAL:O	2.14	0.48
5:BO:36:HIS:NE2	9:BP:101:BCL:CMD	2.77	0.48
5:BQ:46:TRP:CH2	9:BQ:103:BCL:H2C	2.49	0.48
5:BQ:30:VAL:HG13	5:BQ:31:LEU:N	2.28	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BW:33:LEU:HD12	5:BW:33:LEU:C	2.34	0.48
5:AI:20:VAL:HA	5:AI:23:SER:OG	2.14	0.48
4:AH:227:ASN:ND2	4:AH:228:PRO:CD	2.64	0.48
3:BM:14:ARG:HH12	4:BH:145:ALA:CB	2.26	0.48
1:BC:48:GLN:C	1:BC:50:ALA:N	2.66	0.48
6:BV:10:THR:HB	6:BV:13:GLU:OE2	2.14	0.48
6:BP:33:VAL:O	6:BP:37:LEU:HG	2.13	0.48
9:A0:102:BCL:C1	9:A0:102:BCL:CGA	2.87	0.48
6:A8:20:ILE:CG2	6:A8:21:PHE:N	2.77	0.48
6:A8:38:LEU:HA	6:A8:41:LEU:HD12	1.96	0.48
6:AB:17:PHE:HE1	14:AB:102:CRT:C9	2.20	0.48
6:AB:43:ARG:HB3	5:AD:55:TYR:OH	2.14	0.48
5:AF:12:TRP:HB2	6:AG:14:ALA:HB1	1.94	0.48
3:AM:260:VAL:HG11	4:AH:34:ASP:OD1	2.14	0.48
4:AH:63:ASP:HB3	4:AH:64:PRO:CD	2.44	0.48
2:AL:167:SER:CA	9:AL:301:BCL:HBC1	2.44	0.48
2:AL:35:PHE:CE1	2:AL:111:LEU:HD12	2.49	0.48
3:AM:152:ALA:O	3:AM:155:PHE:HB3	2.13	0.48
3:AM:247:ARG:HH11	3:AM:247:ARG:CG	2.27	0.48
3:AM:269:ALA:O	3:AM:271:TRP:N	2.47	0.48
3:AM:4:TYR:C	3:AM:4:TYR:CD1	2.87	0.48
14:AP:102:CRT:H342	9:AQ:102:BCL:CBA	2.15	0.48
6:BB:42:TYR:HH	6:B0:46:LEU:HB3	1.77	0.48
9:B2:101:BCL:C1B	9:B3:102:BCL:C2B	2.92	0.48
9:B4:101:BCL:HMB3	9:B5:102:BCL:CHB	2.44	0.48
1:BC:263:THR:O	1:BC:264:PRO:C	2.52	0.48
9:BL:301:BCL:HBB2	9:BL:301:BCL:HMB1	1.96	0.48
9:BL:301:BCL:HBB3	9:BL:301:BCL:HMB1	1.95	0.48
6:BR:29:PHE:CD1	6:BR:29:PHE:N	2.76	0.48
5:BS:43:ASP:CA	5:BU:56:GLN:HG3	2.43	0.48
5:BU:29:ILE:CA	9:BU:102:BCL:H43	2.44	0.48
2:AL:172:GLN:HA	2:AL:172:GLN:NE2	2.28	0.48
1:AC:327:TYR:HB2	1:AC:330:LEU:HD12	1.95	0.48
3:AM:23:LEU:HD22	3:AM:139:ALA:O	2.13	0.48
4:BH:156:VAL:HG12	4:BH:157:VAL:N	2.29	0.48
9:A0:102:BCL:HHC	9:A0:102:BCL:OBB	2.13	0.48
9:A0:102:BCL:C13	9:A0:102:BCL:HMB2	2.44	0.48
6:A0:17:PHE:CD1	6:A0:18:HIS:HA	2.48	0.48
5:A1:5:ASN:CB	5:A1:8:LEU:HD13	2.44	0.48
6:A6:29:PHE:HA	6:A6:32:VAL:HG12	1.96	0.48
9:A6:101:BCL:H43	14:A7:102:CRT:C26	2.44	0.48
6:AB:20:ILE:CD1	14:AB:102:CRT:H81	2.44	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:315:ASN:OD1	1:AC:316:LYS:HE2	2.14	0.48
9:AG:101:BCL:HMB3	9:AI:102:BCL:C4A	2.44	0.48
2:AL:29:PRO:HG2	3:AM:257:GLY:HA2	1.94	0.48
3:AM:146:LEU:O	3:AM:147:SER:C	2.51	0.48
3:AM:156:PHE:CZ	3:AM:280:ALA:HB1	2.49	0.48
3:AM:214:LEU:HD23	3:AM:214:LEU:C	2.34	0.48
3:AM:206:ILE:HG23	9:AM:402:BCL:HMB3	1.95	0.48
9:AO:102:BCL:C3D	9:AP:101:BCL:C2D	2.92	0.48
5:AS:38:ILE:HD12	5:AU:37:MET:HE1	1.95	0.48
5:AW:10:LYS:HD2	6:AZ:20:ILE:CD1	2.34	0.48
9:BA:101:BCL:CHB	9:B0:102:BCL:HMB3	2.43	0.48
4:BH:47:GLU:HG3	5:BA:19:ARG:CA	2.44	0.48
5:BA:33:LEU:O	5:BA:37:MET:HB2	2.13	0.48
1:BC:137:ALA:HA	1:BC:141:TRP:HD1	1.78	0.48
1:BC:325:LYS:C	1:BC:325:LYS:HD3	2.34	0.48
5:BD:45:ASN:O	5:BD:49:ASP:CG	2.53	0.48
5:BF:9:TYR:CE1	6:BG:15:LYS:CG	2.97	0.48
14:BG:102:CRT:C34	9:BI:102:BCL:HBA1	2.20	0.48
2:BL:226:ARG:O	3:BM:51:ILE:HA	2.14	0.48
5:BK:12:TRP:HD1	6:BN:14:ALA:O	1.97	0.48
9:BQ:104:BCL:HBA1	9:BQ:104:BCL:H3A	1.36	0.48
6:BJ:23:GLN:CD	6:BJ:23:GLN:C	2.72	0.48
6:B8:46:LEU:HD22	6:B0:42:TYR:HE2	1.79	0.48
1:BC:91:THR:O	1:BC:92:ARG:C	2.51	0.48
4:AH:215:LYS:N	4:AH:218:HIS:HD2	2.10	0.48
1:BC:70:PRO:C	1:BC:71:LYS:HD2	2.34	0.48
2:BL:72:ARG:CG	3:BM:305:PRO:HA	2.44	0.48
1:BC:213:THR:OG1	1:BC:257:ASN:HB2	2.13	0.48
5:A1:34:LEU:O	5:A1:38:ILE:HG22	2.14	0.47
1:AC:225:SER:HB3	1:AC:228:GLN:HG3	1.95	0.47
5:AD:45:ASN:HB3	5:AD:49:ASP:HB3	1.97	0.47
6:AB:46:LEU:O	5:AD:52:PRO:HD2	2.14	0.47
9:AF:102:BCL:HHC	9:AF:102:BCL:OBB	2.13	0.47
5:AI:26:ALA:O	5:AI:29:ILE:CG2	2.60	0.47
5:AF:49:ASP:HB2	5:AI:56:GLN:CB	2.43	0.47
2:AL:120:LEU:O	2:AL:121:GLY:C	2.51	0.47
2:AL:7:GLU:CD	2:AL:11:ARG:HH21	2.17	0.47
3:AM:161:GLY:O	3:AM:162:PHE:C	2.52	0.47
3:AM:205:SER:O	9:AM:402:BCL:HMA2	2.13	0.47
3:AM:52:TYR:CE2	3:AM:136:ARG:NE	2.82	0.47
3:AM:62:PHE:C	3:AM:64:GLY:H	2.18	0.47
6:AP:20:ILE:HG21	14:AP:102:CRT:C6	2.44	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AS:104:CRT:H36	5:AW:33:LEU:CA	2.33	0.47
5:AU:46:TRP:CE2	5:AU:47:LEU:HD22	2.49	0.47
5:AU:9:TYR:CE1	6:AV:14:ALA:HB3	2.49	0.47
5:AW:40:LEU:HD12	5:AW:45:ASN:HA	1.95	0.47
5:B5:10:LYS:HG2	14:B5:103:CRT:C1M	2.44	0.47
5:B7:42:THR:C	5:B9:48:ASP:HB3	2.34	0.47
5:B7:46:TRP:NE1	5:B7:47:LEU:CD2	2.77	0.47
5:B9:9:TYR:HA	6:B0:18:HIS:CD2	2.49	0.47
2:BL:48:LEU:HD13	5:BA:33:LEU:HD23	1.96	0.47
6:BB:18:HIS:ND1	6:BB:22:MET:HB2	2.27	0.47
6:BB:18:HIS:HE1	6:BB:22:MET:SD	2.37	0.47
1:BC:205:ASP:HB2	1:BC:304:ARG:NE	2.29	0.47
1:BC:268:THR:HG22	7:BC:504:HEM:HAA1	1.95	0.47
6:BE:45:TRP:C	5:BF:52:PRO:HD3	2.34	0.47
6:BG:36:HIS:HE1	9:BG:101:BCL:C4A	2.26	0.47
5:BI:14:ILE:CG2	5:BK:18:ARG:HB3	2.44	0.47
2:BL:194:LEU:HD22	2:BL:198:MET:HE2	1.95	0.47
3:BM:261:THR:C	3:BM:263:GLU:N	2.65	0.47
3:BM:276:THR:C	3:BM:278:ILE:N	2.68	0.47
3:BM:317:TYR:H	3:BM:317:TYR:HD1	1.59	0.47
3:BM:77:ALA:HA	3:BM:81:TRP:CD1	2.49	0.47
6:BP:23:GLN:O	6:BP:24:SER:C	2.51	0.47
5:BW:4:MET:C	5:BW:6:ALA:N	2.67	0.47
5:BK:13:LEU:HD21	6:BN:10:THR:O	2.14	0.47
2:AL:151:TRP:C	2:AL:153:HIS:H	2.18	0.47
4:BH:94:PRO:CG	6:B0:8:GLY:CA	2.92	0.47
5:AD:12:TRP:CE3	5:AD:12:TRP:CA	2.97	0.47
9:A5:102:BCL:HED1	6:A6:31:LEU:HB3	1.95	0.47
1:AC:172:PRO:O	1:AC:173:LYS:O	2.33	0.47
1:AC:273:ILE:HG22	1:AC:273:ILE:O	2.14	0.47
1:AC:272:ALA:C	1:AC:274:ARG:H	2.16	0.47
9:AF:102:BCL:HBC2	9:AF:102:BCL:CHD	2.44	0.47
14:AA:102:CRT:H392	9:AF:102:BCL:HMB2	1.96	0.47
5:AF:29:ILE:O	5:AF:33:LEU:HD13	2.13	0.47
4:AH:167:VAL:HA	4:AH:183:GLU:O	2.14	0.47
9:AI:102:BCL:H2	6:AJ:28:TRP:CZ2	2.49	0.47
9:AK:102:BCL:C2D	9:AN:101:BCL:CMD	2.92	0.47
5:AK:8:LEU:O	5:AK:11:ILE:HG13	2.14	0.47
5:AK:49:ASP:HB2	5:AO:56:GLN:HG2	1.96	0.47
2:AL:87:ALA:O	2:AL:93:GLY:HA3	2.14	0.47
3:AM:151:ALA:O	3:AM:152:ALA:C	2.52	0.47
3:AM:115:TRP:NE1	3:AM:177:PHE:HD2	2.12	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AM:218:MET:O	3:AM:221:ALA:N	2.47	0.47
9:AS:103:BCL:OBB	9:AS:103:BCL:HHC	2.13	0.47
5:AS:46:TRP:CZ2	9:AS:103:BCL:HHC	2.49	0.47
6:AT:10:THR:HB	6:AT:13:GLU:OE2	2.14	0.47
6:AT:29:PHE:HA	6:AT:32:VAL:HG12	1.96	0.47
9:AV:102:BCL:H203	6:AX:39:ALA:CB	2.44	0.47
6:B6:28:TRP:C	6:B6:30:GLY:H	2.18	0.47
5:B9:31:LEU:HD21	9:B0:102:BCL:HMA2	1.95	0.47
1:BC:212:ILE:HG21	1:BC:229:ALA:HB2	1.96	0.47
1:BC:269:ALA:HB2	7:BC:504:HEM:HMA2	1.96	0.47
4:BH:65:LYS:O	4:BH:77:VAL:CA	2.63	0.47
5:BF:14:ILE:HD13	6:BJ:17:PHE:HE2	1.79	0.47
2:BL:192:ASN:C	2:BL:194:LEU:H	2.17	0.47
3:BM:120:LEU:HB2	14:BM:406:CRT:H372	1.95	0.47
3:BM:176:PRO:HD3	3:BM:185:TRP:HD1	1.78	0.47
3:BM:203:MET:HA	3:BM:206:ILE:HD12	1.96	0.47
3:BM:286:LEU:O	3:BM:290:VAL:HB	2.15	0.47
6:BN:21:PHE:HA	14:BN:102:CRT:C11	2.44	0.47
6:BP:45:TRP:O	6:BP:45:TRP:CD1	2.67	0.47
5:BQ:2:PHE:N	6:BR:26:TYR:HH	2.12	0.47
5:BU:46:TRP:CE2	5:BU:47:LEU:HD22	2.49	0.47
9:BW:102:BCL:HMD2	9:BX:101:BCL:C1D	2.44	0.47
6:B2:43:ARG:HD3	5:B3:55:TYR:CG	2.49	0.47
2:AL:144:ARG:HB3	2:AL:145:PRO:CD	2.42	0.47
4:AH:124:ASP:CB	4:AH:233:LEU:HD21	2.37	0.47
2:AL:82:TYR:HB3	2:AL:85:ARG:NE	2.28	0.47
3:BM:166:VAL:HG22	3:BM:171:TRP:CH2	2.49	0.47
3:BM:114:TRP:HZ3	3:BM:117:MET:HE2	1.79	0.47
1:BC:105:GLU:OE2	1:BC:105:GLU:N	2.47	0.47
6:AB:34:ILE:HD13	6:AB:34:ILE:C	2.35	0.47
5:BI:20:VAL:HA	5:BI:23:SER:OG	2.15	0.47
5:A1:10:LYS:HD2	6:A4:20:ILE:HG21	1.97	0.47
5:A7:26:ALA:O	5:A7:30:VAL:HG12	2.14	0.47
6:A8:45:TRP:O	6:A8:46:LEU:CB	2.62	0.47
1:AC:133:LEU:HD13	1:AC:283:TYR:CD2	2.49	0.47
1:AC:157:ARG:NH1	1:AC:318:LEU:CD2	2.75	0.47
1:AC:245:VAL:O	1:AC:245:VAL:HG23	2.14	0.47
5:AF:12:TRP:HA	5:AF:12:TRP:CE3	2.50	0.47
5:AK:48:ASP:CB	5:AK:56:GLN:NE2	2.77	0.47
2:AL:184:LEU:O	2:AL:187:SER:N	2.47	0.47
3:AM:156:PHE:CA	3:AM:159:VAL:HG23	2.44	0.47
2:AL:207:THR:HB	3:AM:238:ILE:HG21	1.95	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AK:102:BCL:C3D	9:AN:101:BCL:C3D	2.92	0.47
9:AP:101:BCL:CGD	9:AP:101:BCL:H2A	2.44	0.47
14:AP:102:CRT:H342	9:AQ:102:BCL:H3A	1.97	0.47
5:AO:9:TYR:HB3	6:AP:18:HIS:CD2	2.48	0.47
5:AQ:43:ASP:HB2	5:AS:47:LEU:CD1	2.38	0.47
9:AS:103:BCL:HBD	9:AT:101:BCL:OBD	2.13	0.47
5:AW:4:MET:HE2	6:AZ:23:GLN:HB2	1.96	0.47
6:B2:20:ILE:CG1	14:B2:102:CRT:H83	2.45	0.47
5:B3:2:PHE:O	5:B3:3:THR:O	2.32	0.47
6:BB:36:HIS:CE1	9:BB:101:BCL:ND	2.81	0.47
1:BC:254:ARG:HD3	1:BC:255:ALA:N	2.29	0.47
1:BC:270:TRP:HD1	7:BC:503:HEM:HBD2	1.79	0.47
5:BF:36:HIS:NE2	9:BG:101:BCL:HMD1	2.28	0.47
6:BG:30:GLY:CA	6:BG:33:VAL:HG12	2.44	0.47
6:BG:34:ILE:C	6:BG:34:ILE:HD12	2.34	0.47
9:BI:102:BCL:CBC	9:BJ:101:BCL:HHD	2.39	0.47
6:BJ:18:HIS:NE2	6:BJ:22:MET:CE	2.77	0.47
2:BL:13:ARG:HA	4:BH:99:PRO:CB	2.44	0.47
2:BL:148:MET:CB	2:BL:153:HIS:ND1	2.74	0.47
5:BO:50:ASN:CG	5:BO:51:ILE:N	2.67	0.47
5:BW:17:PRO:HA	5:BW:20:VAL:HG22	1.96	0.47
14:BW:103:CRT:H6	6:BZ:17:PHE:CD1	2.48	0.47
6:BZ:22:MET:HG3	6:BZ:26:TYR:HE1	1.78	0.47
6:BZ:27:ALA:O	6:BZ:31:LEU:HG	2.15	0.47
6:B2:42:TYR:HD1	6:B2:43:ARG:HG3	1.79	0.47
5:AI:23:SER:OG	5:AI:24:ILE:N	2.47	0.47
6:BT:9:LEU:CD2	6:BT:13:GLU:HG3	2.30	0.47
6:BN:13:GLU:CD	6:BN:13:GLU:H	2.17	0.47
1:AC:41:GLU:OE1	2:AL:153:HIS:NE2	2.48	0.47
3:AM:301:HIS:CE1	4:AH:8:TYR:HB3	2.48	0.47
4:AH:215:LYS:HB2	4:AH:218:HIS:CD2	2.49	0.47
2:AL:69:ASN:O	2:AL:70:LEU:C	2.52	0.47
6:BT:38:LEU:C	6:BT:38:LEU:HD23	2.35	0.47
4:AH:87:VAL:O	4:AH:89:ALA:N	2.46	0.47
6:A0:29:PHE:H	6:A0:29:PHE:HD1	1.61	0.47
5:AA:33:LEU:O	5:AA:37:MET:HB2	2.14	0.47
5:AA:42:THR:HG22	5:AD:48:ASP:OD2	2.14	0.47
6:AB:44:PRO:HD2	5:AD:55:TYR:CE2	2.49	0.47
6:AG:28:TRP:C	6:AG:30:GLY:N	2.66	0.47
4:AH:136:MET:HG3	4:AH:170:VAL:O	2.14	0.47
4:AH:123:CYS:SG	4:AH:231:VAL:O	2.66	0.47
4:AH:35:LYS:NZ	4:AH:57:GLY:CA	2.72	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AH:58:PHE:N	4:AH:59:PRO:HD2	2.29	0.47
2:AL:88:PRO:O	2:AL:89:LEU:C	2.53	0.47
3:AM:221:ALA:O	3:AM:224:LEU:HB2	2.15	0.47
3:AM:98:PRO:HB2	3:AM:171:TRP:CB	2.44	0.47
9:AN:101:BCL:C1B	9:AO:102:BCL:CMB	2.88	0.47
9:AQ:102:BCL:C2D	9:AR:101:BCL:C2D	2.93	0.47
9:AT:101:BCL:OB	9:AT:101:BCL:HHC	2.13	0.47
5:AU:9:TYR:CB	6:AV:15:LYS:HD3	2.45	0.47
5:AW:21:LEU:HD11	9:AW:101:BCL:H141	1.96	0.47
5:AW:30:VAL:HA	5:AW:33:LEU:HG	1.96	0.47
5:BY:8:LEU:CA	6:B2:20:ILE:HD11	2.28	0.47
5:B5:10:LYS:HG2	14:B5:103:CRT:H1M1	1.96	0.47
5:B5:18:ARG:HB3	5:B5:19:ARG:NH1	2.30	0.47
1:BC:139:SER:O	1:BC:142:LYS:HG3	2.14	0.47
1:BC:273:ILE:HG22	1:BC:273:ILE:O	2.14	0.47
1:BC:285:TRP:HB3	1:BC:286:PRO:HD3	1.95	0.47
5:BD:27:PHE:CE2	5:BF:29:ILE:HD11	2.48	0.47
2:BL:9:LYS:HA	4:BH:111:PHE:HE1	1.79	0.47
4:BH:136:MET:SD	4:BH:170:VAL:HG23	2.54	0.47
5:BI:27:PHE:HA	5:BI:30:VAL:HG12	1.96	0.47
6:BJ:34:ILE:O	6:BJ:38:LEU:HB2	2.13	0.47
2:BL:18:ILE:HG23	4:BH:259:LEU:CB	2.45	0.47
3:BM:154:ILE:CG2	3:BM:154:ILE:O	2.62	0.47
3:BM:279:THR:HG22	3:BM:282:ILE:HD12	1.96	0.47
3:BM:51:ILE:HG12	3:BM:52:TYR:N	2.29	0.47
3:BM:84:PHE:HD1	3:BM:84:PHE:N	2.12	0.47
14:BP:102:CRT:C2M	5:BQ:37:MET:HG2	2.43	0.47
6:BP:21:PHE:C	6:BP:21:PHE:CD1	2.88	0.47
10:BM:403:BPH:HBA2	15:BQ:101:PEF:H431	1.97	0.47
6:B2:42:TYR:CE1	6:B2:43:ARG:HG3	2.50	0.47
4:BH:145:ALA:O	4:BH:147:GLY:N	2.48	0.47
5:BU:44:LEU:O	5:BU:44:LEU:HD12	2.13	0.47
1:AC:213:THR:HB	1:AC:257:ASN:OD1	2.15	0.47
6:AX:34:ILE:HG23	6:AX:35:ALA:N	2.29	0.47
5:B9:33:LEU:H	5:B9:33:LEU:CD1	2.28	0.47
5:A5:45:ASN:HD21	5:A5:48:ASP:CG	2.17	0.47
14:AW:102:CRT:H342	9:A1:102:BCL:HBA2	1.96	0.47
5:A3:46:TRP:CD1	5:A3:47:LEU:N	2.83	0.47
9:A5:102:BCL:H162	9:A5:102:BCL:H111	1.95	0.47
5:AA:17:PRO:HD2	5:AA:18:ARG:NH1	2.28	0.47
1:AC:194:SER:C	1:AC:195:LEU:HG	2.33	0.47
1:AC:195:LEU:HB3	1:AC:196:PRO:HD2	1.95	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:196:PRO:O	1:AC:197:PHE:CG	2.68	0.47
1:AC:317:PRO:HD2	7:AC:504:HEM:C2D	2.48	0.47
5:AD:43:ASP:OD2	5:AD:44:LEU:HG	2.14	0.47
9:AG:101:BCL:C1C	9:AI:102:BCL:HBB3	2.45	0.47
5:AF:12:TRP:NE1	6:AG:17:PHE:CD1	2.82	0.47
6:AG:19:ALA:O	6:AG:23:GLN:HG3	2.13	0.47
4:AH:170:VAL:HA	4:AH:182:LEU:HA	1.96	0.47
4:AH:65:LYS:O	4:AH:77:VAL:CA	2.61	0.47
2:AL:230:GLY:O	3:AM:49:GLY:HA2	2.14	0.47
3:AM:184:ASP:O	3:AM:187:ALA:HB3	2.14	0.47
3:AM:26:GLY:HA2	5:AO:16:ASP:OD2	2.14	0.47
5:AO:17:PRO:O	5:AO:21:LEU:N	2.44	0.47
5:AS:43:ASP:C	5:AS:45:ASN:H	2.17	0.47
3:AM:84:PHE:CZ	5:AU:38:ILE:HD12	2.50	0.47
5:AW:9:TYR:C	5:AW:11:ILE:N	2.68	0.47
6:AV:44:PRO:CG	5:AW:52:PRO:HG2	2.45	0.47
5:B1:10:LYS:CB	14:B1:103:CRT:H83	2.43	0.47
6:B2:17:PHE:CD1	14:B2:102:CRT:C6	2.87	0.47
9:B5:102:BCL:CHD	9:B6:101:BCL:HMD2	2.45	0.47
1:BC:167:VAL:HG23	1:BC:301:ASP:CG	2.34	0.47
1:BC:275:HIS:O	1:BC:275:HIS:CD2	2.68	0.47
5:BF:29:ILE:HG23	5:BF:30:VAL:N	2.28	0.47
2:BL:116:ILE:HD13	3:BM:254:TRP:HB2	1.97	0.47
2:BL:190:PHE:O	2:BL:191:THR:C	2.53	0.47
3:BM:262:MET:HG3	3:BM:262:MET:O	2.14	0.47
3:BM:204:LEU:CD1	3:BM:279:THR:HG21	2.38	0.47
3:BM:76:LEU:CD2	5:BU:37:MET:HE3	2.43	0.47
6:BT:29:PHE:HA	6:BT:32:VAL:HG12	1.97	0.47
9:BW:102:BCL:O1D	9:BW:102:BCL:H2A	2.14	0.47
9:BY:102:BCL:HBB3	9:BY:102:BCL:HMB1	1.97	0.47
5:BK:2:PHE:O	5:BK:5:ASN:HB3	2.14	0.47
5:BA:22:VAL:C	5:BA:24:ILE:H	2.17	0.47
1:BC:313:ALA:O	1:BC:314:VAL:HG22	2.14	0.47
6:AT:40:TRP:CE3	6:AT:44:PRO:HA	2.50	0.47
5:A1:19:ARG:O	5:A1:23:SER:CB	2.62	0.47
5:A3:13:LEU:HD21	6:A4:10:THR:C	2.34	0.47
5:A3:18:ARG:O	5:A3:22:VAL:HG12	2.14	0.47
6:A8:17:PHE:CE1	6:A8:20:ILE:HG21	2.50	0.47
9:A9:102:BCL:H92	6:A0:28:TRP:HB2	1.97	0.47
5:AA:33:LEU:N	5:AA:33:LEU:HD12	2.30	0.47
9:AB:101:BCL:OBB	9:AB:101:BCL:HHC	2.14	0.47
1:AC:144:HIS:CE1	7:AC:504:HEM:NC	2.83	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AD:102:BCL:ND	9:AE:101:BCL:HMD2	2.28	0.47
5:AF:36:HIS:NE2	9:AG:101:BCL:CMD	2.78	0.47
4:AH:171:TRP:N	4:AH:181:TYR:O	2.47	0.47
2:AL:38:VAL:HG23	2:AL:108:SER:OG	2.15	0.47
2:AL:180:PRO:HA	2:AL:183:MET:SD	2.54	0.47
2:AL:6:PHE:HE2	3:AM:246:GLU:HA	1.79	0.47
3:AM:208:PHE:O	3:AM:210:TYR:N	2.47	0.47
3:AM:226:VAL:HG21	3:AM:244:ALA:HA	1.97	0.47
3:AM:276:THR:HG22	3:AM:277:VAL:H	1.74	0.47
3:AM:92:TRP:O	3:AM:93:LEU:O	2.33	0.47
5:AO:33:LEU:O	5:AO:37:MET:HG2	2.15	0.47
6:AP:13:GLU:HA	6:AP:16:GLU:OE1	2.14	0.47
6:AP:13:GLU:HA	6:AP:16:GLU:HG3	1.96	0.47
6:AP:45:TRP:O	6:AP:46:LEU:CD2	2.63	0.47
5:AU:17:PRO:HG2	5:AU:18:ARG:HD2	1.96	0.47
5:AW:7:ASN:N	5:AW:7:ASN:ND2	2.57	0.47
5:B5:20:VAL:HA	5:B5:23:SER:CB	2.43	0.47
5:B5:49:ASP:CG	5:B5:50:ASN:N	2.68	0.47
5:B7:30:VAL:HG13	5:B7:31:LEU:N	2.30	0.47
4:BH:112:GLY:N	4:BH:115:ALA:HB2	2.29	0.47
4:BH:54:LYS:HG3	4:BH:58:PHE:HA	1.96	0.47
2:BL:13:ARG:HG3	2:BL:13:ARG:HH11	1.79	0.47
2:BL:168:ASN:O	2:BL:170:GLY:N	2.48	0.47
2:BL:184:LEU:HB2	2:BL:252:TRP:CD1	2.49	0.47
1:BC:36:ARG:NH2	2:BL:90:THR:O	2.47	0.47
3:BM:90:PHE:C	3:BM:92:TRP:H	2.17	0.47
9:BO:102:BCL:CBC	9:BP:101:BCL:HHD	2.39	0.47
9:BP:101:BCL:CHB	9:BQ:103:BCL:HMB3	2.44	0.47
9:BQ:103:BCL:C4C	9:BQ:104:BCL:HMD2	2.40	0.47
14:BU:103:CRT:O2	5:BY:33:LEU:O	2.32	0.47
5:BW:35:ILE:O	5:BW:36:HIS:C	2.52	0.47
5:BY:26:ALA:O	5:BY:30:VAL:HG23	2.14	0.47
2:AL:67:THR:OG1	2:AL:68:TYR:N	2.48	0.47
5:AW:19:ARG:NH1	5:AY:22:VAL:CG2	2.77	0.47
6:B6:40:TRP:HZ3	6:B6:45:TRP:N	2.11	0.47
1:BC:53:ILE:CG1	1:BC:319:TYR:CZ	2.97	0.47
4:BH:23:PHE:O	4:BH:25:GLY:N	2.48	0.47
5:A1:18:ARG:O	5:A1:22:VAL:HG12	2.15	0.47
3:BM:310:VAL:O	3:BM:310:VAL:HG12	2.15	0.47
6:BN:7:THR:OG1	6:BN:8:GLY:N	2.46	0.47
5:A5:12:TRP:CH2	5:A5:20:VAL:HG23	2.49	0.47
1:AC:280:ASN:OD1	1:AC:305:VAL:N	2.45	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:291:LEU:HD22	1:AC:295:ARG:HB2	1.96	0.47
3:AM:240:HIS:CE1	4:AH:69:LEU:HD11	2.38	0.47
4:AH:5:ILE:CG2	4:AH:6:THR:H	2.10	0.47
6:AJ:17:PHE:O	6:AJ:18:HIS:C	2.53	0.47
5:AF:8:LEU:N	6:AJ:20:ILE:HD11	2.29	0.47
2:AL:44:LEU:C	2:AL:46:GLY:N	2.68	0.47
3:AM:284:ILE:HD11	9:AM:402:BCL:OBD	2.15	0.47
14:AN:102:CRT:H342	9:AO:102:BCL:CBA	2.36	0.47
9:AR:101:BCL:HMB3	9:AS:103:BCL:CHB	2.45	0.47
6:AR:16:GLU:CB	14:AR:102:CRT:H23	2.45	0.47
5:AS:26:ALA:O	5:AS:30:VAL:HG12	2.14	0.47
6:AV:14:ALA:O	6:AV:18:HIS:HB2	2.14	0.47
5:AU:19:ARG:HE	5:AW:18:ARG:HH22	1.63	0.47
5:AY:44:LEU:CD1	6:AZ:43:ARG:HD2	2.43	0.47
9:A6:101:BCL:HMA1	9:A7:103:BCL:HMA1	1.97	0.47
14:AA:102:CRT:H372	5:AD:35:ILE:HD11	1.97	0.47
5:AA:44:LEU:C	5:AA:44:LEU:HD12	2.35	0.47
9:AA:101:BCL:HAC2	9:AB:101:BCL:CBC	2.45	0.47
5:AD:43:ASP:CG	5:AD:44:LEU:N	2.68	0.47
4:AH:151:PRO:O	4:AH:167:VAL:HG21	2.15	0.47
2:AL:139:VAL:HG22	2:AL:258:LEU:HB2	1.97	0.47
3:AM:101:GLN:C	3:AM:103:GLY:H	2.17	0.47
3:AM:195:ASN:O	3:AM:197:TYR:N	2.48	0.47
3:AM:246:GLU:O	3:AM:250:LEU:HB2	2.14	0.47
2:AL:164:ASP:OD2	3:AM:307:TYR:OH	2.33	0.47
2:AL:226:ARG:NH2	3:AM:47:GLN:HB3	2.30	0.47
3:AM:51:ILE:HG12	3:AM:52:TYR:O	2.15	0.47
6:AP:28:TRP:O	6:AP:31:LEU:N	2.48	0.47
9:AU:102:BCL:OBD	6:AV:32:VAL:HG22	2.14	0.47
5:AU:50:ASN:HB2	5:AW:59:GLY:HA3	1.97	0.47
6:AX:45:TRP:CZ3	9:AX:101:BCL:HAC2	2.49	0.47
6:AZ:36:HIS:HE1	9:AZ:101:BCL:C4A	2.27	0.47
6:B0:40:TRP:HA	6:B0:40:TRP:HE3	1.78	0.47
9:B3:102:BCL:H2	6:B4:28:TRP:CZ2	2.50	0.47
6:B6:21:PHE:CD2	14:B7:102:CRT:H14	2.49	0.47
6:B8:17:PHE:CE1	6:B8:20:ILE:HG21	2.50	0.47
9:B9:102:BCL:HAC2	9:B0:102:BCL:CBC	2.45	0.47
1:BC:40:MET:HB3	1:BC:248:THR:HB	1.97	0.47
2:BL:246:ALA:C	2:BL:248:SER:H	2.16	0.47
11:BL:304:UQ8:H45	11:BL:304:UQ8:H42	1.68	0.47
2:BL:178:TYR:CE1	3:BM:180:PHE:CD2	3.03	0.47
3:BM:222:THR:O	3:BM:226:VAL:HG12	2.13	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BQ:12:TRP:HA	5:BQ:12:TRP:HE3	1.80	0.47
5:BQ:51:ILE:HA	5:BQ:52:PRO:C	2.33	0.47
6:BV:33:VAL:CG1	6:BV:34:ILE:N	2.77	0.47
6:B0:29:PHE:O	6:B0:32:VAL:HG12	2.14	0.47
6:B0:40:TRP:CE3	6:B0:44:PRO:HA	2.50	0.47
9:B5:102:BCL:H13	9:B5:102:BCL:H192	1.97	0.47
9:BA:101:BCL:HBA1	14:B0:101:CRT:C34	2.31	0.47
1:BC:196:PRO:O	1:BC:197:PHE:CG	2.67	0.47
1:BC:282:ASN:HB3	1:BC:283:TYR:CD1	2.50	0.47
1:BC:283:TYR:HD1	1:BC:283:TYR:N	2.13	0.47
1:BC:285:TRP:HZ3	1:BC:302:PRO:HD3	1.74	0.47
5:BF:26:ALA:HA	5:BF:29:ILE:HG22	1.95	0.47
2:BL:129:ALA:CB	2:BL:247:LEU:HD21	2.42	0.47
6:BN:29:PHE:CE2	9:BN:101:BCL:H2	2.50	0.47
9:BU:102:BCL:C2D	9:BV:101:BCL:CMD	2.90	0.47
5:BW:16:ASP:HB3	5:BW:19:ARG:HG2	1.96	0.47
5:B1:44:LEU:N	5:B1:44:LEU:HD23	2.29	0.47
5:AI:15:LEU:HD12	5:AI:20:VAL:HG11	1.95	0.47
5:BD:44:LEU:HD22	5:BF:55:TYR:CZ	2.50	0.47
4:AH:218:HIS:O	4:AH:222:VAL:HG23	2.15	0.47
6:AX:33:VAL:CG2	6:AX:37:LEU:HD23	2.42	0.47
6:BX:30:GLY:O	6:BX:34:ILE:HG22	2.14	0.47
1:BC:29:GLY:N	1:BC:44:TYR:O	2.47	0.47
3:BM:271:TRP:CE2	4:BH:26:LEU:HD11	2.50	0.47
6:AT:38:LEU:O	6:AT:38:LEU:HD23	2.14	0.47
6:A6:38:LEU:HD23	6:A6:38:LEU:O	2.15	0.47
6:A0:40:TRP:CE3	6:A0:44:PRO:HA	2.50	0.47
9:A1:102:BCL:HMD2	9:A2:101:BCL:C1D	2.45	0.47
5:A3:56:GLN:HG2	5:A3:57:ALA:N	2.30	0.47
5:A5:27:PHE:CZ	5:A7:29:ILE:HD11	2.50	0.47
1:AC:157:ARG:NE	1:AC:312:GLN:OE1	2.47	0.47
5:AF:11:ILE:HG23	5:AF:12:TRP:CE3	2.50	0.47
6:AJ:33:VAL:HG22	6:AJ:37:LEU:CD2	2.45	0.47
6:AJ:45:TRP:CD1	6:AJ:46:LEU:N	2.83	0.47
5:AK:48:ASP:CB	5:AK:56:GLN:HE22	2.28	0.47
2:AL:195:ALA:O	2:AL:198:MET:HB2	2.14	0.47
3:AM:138:GLU:C	3:AM:140:LEU:N	2.64	0.47
3:AM:164:ARG:HA	3:AM:167:MET:CB	2.45	0.47
3:AM:76:LEU:HA	3:AM:86:PHE:CE1	2.50	0.47
1:BC:141:TRP:O	1:BC:145:VAL:HG22	2.14	0.47
1:BC:261:GLN:O	1:BC:262:SER:O	2.33	0.47
1:BC:35:TYR:CD2	3:BM:308:PRO:HD2	2.50	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BF:29:ILE:CB	9:BF:102:BCL:H43	2.39	0.47
5:BF:10:LYS:O	5:BF:13:LEU:HG	2.15	0.47
5:BF:35:ILE:CA	5:BF:38:ILE:HG22	2.45	0.47
6:BG:30:GLY:C	6:BG:33:VAL:HG12	2.34	0.47
5:BI:11:ILE:HG23	5:BI:12:TRP:CD1	2.50	0.47
2:BL:160:LEU:C	2:BL:160:LEU:HD12	2.36	0.47
5:BO:46:TRP:CE3	9:BO:102:BCL:H2C	2.50	0.47
9:BO:102:BCL:ND	9:BP:101:BCL:HMD1	2.26	0.47
5:BQ:12:TRP:CE3	5:BQ:12:TRP:HA	2.50	0.47
5:BW:10:LYS:HB3	14:BW:103:CRT:H23	1.96	0.47
5:BY:9:TYR:CZ	5:BY:10:LYS:HE3	2.49	0.47
4:BH:132:LYS:NZ	4:BH:173:ASP:OD2	2.46	0.47
2:BL:216:LYS:HD2	2:BL:220:HIS:NE2	2.30	0.47
4:AH:180:ARG:HG2	4:AH:180:ARG:HH11	1.80	0.47
6:AZ:29:PHE:HD1	6:AZ:29:PHE:N	2.12	0.47
1:BC:184:ASN:O	1:BC:185:TYR:HB2	2.15	0.47
9:A3:103:BCL:HMD2	9:A3:104:BCL:CHD	2.45	0.47
6:A4:13:GLU:O	6:A4:16:GLU:CG	2.60	0.47
6:A4:40:TRP:CZ3	6:A4:44:PRO:CA	2.96	0.47
6:A6:31:LEU:HA	6:A6:34:ILE:HG22	1.97	0.47
5:A7:40:LEU:HD12	5:A7:45:ASN:HA	1.97	0.47
5:A7:46:TRP:CZ3	9:A7:103:BCL:H2C	2.49	0.47
5:A9:33:LEU:N	5:A9:33:LEU:HD12	2.30	0.47
13:AM:405:MQ8:H493	5:AA:34:LEU:HD13	1.97	0.47
5:AD:40:LEU:HD13	5:AD:46:TRP:CZ2	2.50	0.47
4:AH:27:ILE:CG2	4:AH:28:ILE:N	2.78	0.47
3:AM:274:VAL:C	3:AM:276:THR:H	2.17	0.47
5:AO:7:ASN:ND2	5:AO:7:ASN:N	2.60	0.47
6:AP:44:PRO:HD2	5:AQ:55:TYR:OH	2.14	0.47
9:AR:101:BCL:HMB3	9:AS:103:BCL:NA	2.30	0.47
5:AS:29:ILE:HG23	5:AS:30:VAL:N	2.30	0.47
14:AS:104:CRT:C2M	5:AW:37:MET:CA	2.93	0.47
9:AX:101:BCL:H12	9:AX:101:BCL:CGA	2.41	0.47
14:AW:102:CRT:C6	6:AZ:20:ILE:HG21	2.45	0.47
5:B1:21:LEU:HD11	9:B1:102:BCL:H142	1.96	0.47
9:B1:102:BCL:CAC	9:B2:101:BCL:CBC	2.92	0.47
5:B3:20:VAL:HG23	5:B3:21:LEU:N	2.30	0.47
9:BA:101:BCL:HBA2	9:BB:101:BCL:OBD	2.14	0.47
5:BA:51:ILE:HD11	6:BB:42:TYR:OH	2.14	0.47
1:BC:286:PRO:O	1:BC:288:ASN:N	2.46	0.47
6:BE:29:PHE:CD1	9:BE:101:BCL:H11	2.50	0.47
4:BH:36:ARG:HE	4:BH:65:LYS:HB2	1.80	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:BH:36:ARG:NE	4:BH:65:LYS:HB2	2.29	0.47
2:BL:188:PHE:CZ	11:BL:304:UQ8:H26A	2.49	0.47
3:BM:151:ALA:O	3:BM:154:ILE:N	2.48	0.47
3:BM:156:PHE:HA	3:BM:159:VAL:HG23	1.96	0.47
3:BM:241:ARG:O	4:BH:119:ARG:CD	2.63	0.47
6:BP:45:TRP:CE3	9:BP:101:BCL:HBC2	2.50	0.47
5:BO:7:ASN:C	6:BR:20:ILE:HD11	2.34	0.47
9:BW:102:BCL:C3D	9:BX:101:BCL:C3D	2.93	0.47
5:BY:21:LEU:O	5:BY:25:VAL:HG23	2.14	0.47
4:BH:71:HIS:HE1	4:BH:125:LEU:HD22	1.80	0.47
6:B8:45:TRP:O	6:B8:46:LEU:CB	2.62	0.47
6:B8:45:TRP:HA	5:B9:52:PRO:HD2	1.97	0.47
2:BL:21:ASP:HB3	5:B7:19:ARG:NE	2.30	0.47
6:A4:18:HIS:O	6:A4:18:HIS:CD2	2.67	0.47
3:BM:114:TRP:CE3	3:BM:117:MET:HG3	2.50	0.47
1:BC:173:LYS:HZ3	5:BU:42:THR:HG22	1.80	0.47
4:BH:138:VAL:O	4:BH:140:LYS:HD3	2.15	0.47
5:AA:20:VAL:HG12	5:AA:20:VAL:O	2.15	0.47
5:A7:10:LYS:CB	14:A0:101:CRT:C8	2.93	0.47
5:A3:19:ARG:CG	5:A3:20:VAL:N	2.78	0.47
5:A5:50:ASN:CG	5:A5:51:ILE:H	2.17	0.47
6:A8:20:ILE:HD13	6:A8:20:ILE:C	2.36	0.47
5:AF:31:LEU:HD11	14:AG:102:CRT:H372	1.97	0.47
2:AL:218:SER:C	2:AL:220:HIS:N	2.68	0.47
3:AM:109:LEU:HD22	5:AQ:42:THR:HG21	1.96	0.47
3:AM:244:ALA:O	3:AM:246:GLU:N	2.48	0.47
5:AK:12:TRP:CD1	6:AN:17:PHE:HD2	2.32	0.47
5:AO:30:VAL:HG13	5:AO:31:LEU:N	2.30	0.47
6:AR:46:LEU:HD22	6:AT:42:TYR:CD2	2.50	0.47
5:AS:36:HIS:HD2	5:AS:46:TRP:HH2	1.63	0.47
6:AT:9:LEU:HB3	6:AT:13:GLU:HG3	1.96	0.47
6:AV:45:TRP:O	6:AV:46:LEU:HB2	2.14	0.47
5:AW:26:ALA:C	5:AW:29:ILE:HG22	2.34	0.47
9:B1:102:BCL:HMD1	6:B2:36:HIS:ND1	2.30	0.47
6:B4:10:THR:O	6:B4:14:ALA:HB2	2.14	0.47
5:B3:27:PHE:CE2	5:B5:29:ILE:HD12	2.50	0.47
5:B7:11:ILE:CD1	5:B7:15:LEU:HD11	2.45	0.47
5:B7:9:TYR:CD1	5:B7:9:TYR:C	2.88	0.47
5:B9:12:TRP:HE1	6:B0:18:HIS:HA	1.80	0.47
6:BB:32:VAL:CG2	9:BB:101:BCL:HBA2	2.32	0.47
6:BB:34:ILE:HD13	6:BB:34:ILE:C	2.36	0.47
1:BC:211:ARG:HB3	7:BC:503:HEM:O2A	2.15	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:BI:102:BCL:C2D	9:BJ:101:BCL:C2D	2.93	0.47
14:BF:103:CRT:C34	9:BK:102:BCL:HBA1	2.32	0.47
2:BL:207:THR:HB	3:BM:238:ILE:HG21	1.96	0.47
5:BQ:43:ASP:HB2	5:BS:47:LEU:HB3	1.97	0.47
9:BV:101:BCL:CHB	9:BW:102:BCL:HMB3	2.45	0.47
5:B1:53:VAL:O	5:B1:54:SER:C	2.54	0.47
4:BH:229:ASP:O	4:BH:230:GLN:HB3	2.15	0.47
5:AK:33:LEU:HD12	5:AK:34:LEU:N	2.30	0.47
6:AV:33:VAL:CG1	6:AV:34:ILE:N	2.78	0.47
6:AB:33:VAL:O	6:AB:37:LEU:HD23	2.15	0.47
4:BH:189:ASN:HB3	4:BH:191:LYS:CG	2.45	0.47
1:AC:47:ARG:HD3	5:A1:42:THR:CG2	2.46	0.47
5:A1:31:LEU:HD23	9:A2:101:BCL:HED3	1.96	0.46
5:A3:44:LEU:HD21	9:A3:104:BCL:CBC	2.45	0.46
14:A1:103:CRT:H32	5:A3:31:LEU:HD21	1.96	0.46
5:A3:46:TRP:HZ3	9:A3:103:BCL:HBC3	1.79	0.46
5:AA:17:PRO:HG2	5:AA:18:ARG:CD	2.45	0.46
9:AF:102:BCL:HAC2	9:AG:101:BCL:HBC3	1.94	0.46
4:AH:35:LYS:O	4:AH:36:ARG:O	2.33	0.46
4:AH:45:ARG:O	4:AH:96:PRO:CB	2.62	0.46
14:AJ:102:CRT:C2M	5:AK:36:HIS:HB3	2.45	0.46
9:AL:301:BCL:H191	9:AM:401:BCL:H8	1.97	0.46
10:AL:302:BPH:HED1	3:AM:255:THR:CG2	2.45	0.46
3:AM:115:TRP:CZ3	3:AM:116:LEU:HD12	2.49	0.46
3:AM:204:LEU:HD23	3:AM:279:THR:HG22	1.97	0.46
3:AM:286:LEU:HA	3:AM:290:VAL:HG21	1.96	0.46
3:AM:8:PHE:HB3	3:AM:42:LYS:HG2	1.96	0.46
3:AM:98:PRO:HG3	3:AM:112:GLY:O	2.14	0.46
5:AQ:28:GLN:O	9:AQ:102:BCL:H12	2.15	0.46
9:AV:102:BCL:H18	9:AW:101:BCL:H3C	1.97	0.46
9:AY:102:BCL:H92	6:AZ:28:TRP:HB2	1.96	0.46
5:B1:12:TRP:CH2	9:B3:102:BCL:H202	2.46	0.46
9:B1:102:BCL:ND	9:B2:101:BCL:CMD	2.77	0.46
6:B6:31:LEU:HA	6:B6:34:ILE:HG22	1.97	0.46
6:BB:9:LEU:N	6:BB:9:LEU:HD12	2.30	0.46
1:BC:273:ILE:HG22	1:BC:277:ARG:NH1	2.30	0.46
3:BM:268:TRP:HZ2	4:BH:34:ASP:OD2	1.98	0.46
4:BH:54:LYS:HG3	4:BH:58:PHE:HD1	1.80	0.46
3:BM:206:ILE:HG22	3:BM:210:TYR:CE2	2.50	0.46
6:BP:17:PHE:CD1	14:BP:102:CRT:H6	2.50	0.46
6:BP:42:TYR:CD2	6:BP:43:ARG:HG3	2.50	0.46
6:AR:44:PRO:O	5:AS:52:PRO:HG3	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:BH:235:GLU:O	4:BH:239:VAL:HG23	2.15	0.46
1:BC:46:LYS:C	1:BC:48:GLN:H	2.19	0.46
6:A4:38:LEU:O	6:A4:38:LEU:HD23	2.15	0.46
1:AC:102:SER:HB2	1:AC:105:GLU:OE2	2.15	0.46
2:AL:159:ILE:H	2:AL:159:ILE:CD1	2.28	0.46
3:BM:64:GLY:O	3:BM:66:VAL:N	2.46	0.46
6:A0:45:TRP:CD1	6:A0:46:LEU:N	2.77	0.46
6:AB:24:SER:OG	5:A9:4:MET:CE	2.63	0.46
1:AC:232:THR:O	1:AC:233:PHE:C	2.54	0.46
5:AF:35:ILE:CD1	14:AG:102:CRT:H403	2.44	0.46
4:AH:184:VAL:HB	4:AH:193:VAL:HG23	1.96	0.46
9:AJ:101:BCL:HHC	9:AJ:101:BCL:OBB	2.14	0.46
5:AF:10:LYS:HD2	14:AJ:102:CRT:H1M1	1.97	0.46
3:AM:164:ARG:HB2	3:AM:285:LEU:HD12	1.96	0.46
3:AM:260:VAL:HG12	4:AH:31:ARG:NH2	2.30	0.46
3:AM:84:PHE:N	3:AM:84:PHE:CD1	2.83	0.46
6:AP:17:PHE:CD1	14:AP:102:CRT:H6	2.50	0.46
6:AR:40:TRP:HH2	6:AR:46:LEU:CD1	2.29	0.46
5:AS:11:ILE:CG1	14:AS:104:CRT:C8	2.92	0.46
6:AR:46:LEU:CB	6:AT:42:TYR:CZ	2.77	0.46
6:AV:21:PHE:CD1	6:AV:21:PHE:C	2.89	0.46
6:B0:32:VAL:HG21	9:B0:102:BCL:CGA	2.44	0.46
6:B6:29:PHE:HA	6:B6:32:VAL:HG12	1.96	0.46
5:BA:39:VAL:C	5:BA:41:SER:N	2.69	0.46
1:BC:199:PRO:HG2	1:BC:200:LEU:HD12	1.97	0.46
9:BD:102:BCL:HBC1	9:BE:101:BCL:HBC3	1.97	0.46
5:BD:16:ASP:OD1	5:BD:17:PRO:HD2	2.14	0.46
4:BH:56:VAL:O	4:BH:56:VAL:HG23	2.15	0.46
9:BK:102:BCL:H143	14:BN:102:CRT:H132	1.97	0.46
2:BL:160:LEU:HD12	2:BL:160:LEU:O	2.14	0.46
2:BL:182:HIS:O	2:BL:186:ILE:HG13	2.15	0.46
2:BL:35:PHE:HA	2:BL:38:VAL:HG22	1.97	0.46
3:BM:71:ILE:HD13	3:BM:177:PHE:CE1	2.49	0.46
3:BM:193:TYR:O	3:BM:194:GLY:C	2.52	0.46
3:BM:265:ILE:HD12	3:BM:265:ILE:HA	1.78	0.46
2:BL:204:LEU:CD1	3:BM:267:ARG:HG3	2.45	0.46
3:BM:273:ALA:O	3:BM:276:THR:HB	2.15	0.46
6:BN:44:PRO:CD	5:BO:55:TYR:OH	2.62	0.46
5:BQ:44:LEU:HD12	5:BQ:46:TRP:CE3	2.37	0.46
5:BS:42:THR:HG22	5:BS:43:ASP:H	1.80	0.46
9:BW:102:BCL:HBB3	9:BW:102:BCL:HMB1	1.97	0.46
9:BW:102:BCL:HHC	9:BW:102:BCL:OBB	2.14	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:BU:103:CRT:H9	6:BX:20:ILE:HG23	1.97	0.46
9:BY:102:BCL:HED1	6:BZ:31:LEU:HB3	1.96	0.46
4:BH:130:LEU:HD23	4:BH:131:PRO:O	2.16	0.46
2:BL:218:SER:C	2:BL:220:HIS:N	2.69	0.46
1:BC:52:SER:C	1:BC:319:TYR:OH	2.53	0.46
5:BA:2:PHE:CA	5:BA:5:ASN:HD21	2.26	0.46
1:BC:148:THR:HG23	1:BC:322:GLN:HG2	1.96	0.46
6:A0:24:SER:HB3	14:A0:101:CRT:H183	1.97	0.46
9:AA:101:BCL:CED	9:A0:102:BCL:H92	2.44	0.46
5:A9:32:GLY:CA	9:A0:102:BCL:HED2	2.46	0.46
9:A3:104:BCL:C2	6:A4:29:PHE:CD1	2.98	0.46
6:A6:31:LEU:HA	6:A6:34:ILE:CG2	2.44	0.46
6:A8:29:PHE:HZ	9:A8:101:BCL:H72	1.80	0.46
2:AL:48:LEU:HD13	5:AA:33:LEU:CD2	2.45	0.46
9:AA:101:BCL:ND	9:AB:101:BCL:CMD	2.78	0.46
9:AA:101:BCL:CMD	6:AB:35:ALA:HB1	2.44	0.46
5:AF:30:VAL:HG13	5:AF:31:LEU:N	2.30	0.46
5:AF:31:LEU:HB3	9:AG:101:BCL:CED	2.45	0.46
6:AG:45:TRP:CZ2	9:AG:101:BCL:H2C	2.50	0.46
4:AH:168:SER:N	4:AH:183:GLU:O	2.48	0.46
4:AH:234:TYR:CE1	4:AH:238:LYS:HE3	2.50	0.46
2:AL:184:LEU:HB2	2:AL:252:TRP:HE1	1.79	0.46
3:AM:215:LEU:HA	3:AM:218:MET:HG3	1.97	0.46
9:AL:303:BCL:CBC	9:AM:402:BCL:CAD	2.93	0.46
3:AM:83:VAL:O	3:AM:86:PHE:N	2.47	0.46
3:AM:91:PHE:N	3:AM:91:PHE:CD1	2.82	0.46
5:AO:27:PHE:HE2	5:AQ:29:ILE:HD11	1.79	0.46
9:AX:101:BCL:H43	14:AX:102:CRT:H26	1.96	0.46
14:AX:102:CRT:H131	14:AX:102:CRT:H15	1.71	0.46
6:AX:24:SER:O	6:AX:27:ALA:HB3	2.15	0.46
6:B2:36:HIS:CE1	9:B2:101:BCL:C4D	2.98	0.46
5:B3:38:ILE:HG23	5:B3:39:VAL:N	2.31	0.46
9:B4:101:BCL:HMC3	9:B5:102:BCL:HBB1	1.97	0.46
9:B6:101:BCL:CHC	9:B7:103:BCL:CBB	2.92	0.46
9:B7:103:BCL:H62	6:B8:28:TRP:CZ3	2.51	0.46
6:B8:20:ILE:CG2	6:B8:21:PHE:N	2.77	0.46
5:BA:44:LEU:HD12	5:BA:46:TRP:H	1.80	0.46
9:BA:101:BCL:ND	9:BB:101:BCL:CMD	2.79	0.46
9:BE:101:BCL:HHB	9:BF:102:BCL:HMA1	1.96	0.46
6:BJ:17:PHE:O	6:BJ:18:HIS:C	2.53	0.46
5:BK:25:VAL:O	5:BK:29:ILE:HG22	2.15	0.46
2:BL:142:PHE:HD1	2:BL:143:VAL:N	2.13	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:BM:138:GLU:HA	3:BM:142:MET:O	2.16	0.46
2:BL:175:HIS:NE2	3:BM:184:ASP:OD2	2.47	0.46
6:BN:31:LEU:CA	6:BN:34:ILE:HG22	2.44	0.46
9:BU:102:BCL:HMD2	9:BV:101:BCL:HAC1	1.96	0.46
6:BX:21:PHE:C	6:BX:21:PHE:CD1	2.88	0.46
4:BH:169:ASP:H	4:BH:183:GLU:HB2	1.81	0.46
5:BF:33:LEU:N	5:BF:33:LEU:HD12	2.28	0.46
6:AX:33:VAL:O	6:AX:37:LEU:HB2	2.15	0.46
1:AC:29:GLY:N	1:AC:44:TYR:O	2.48	0.46
5:A1:29:ILE:O	5:A1:33:LEU:HG	2.15	0.46
5:A3:47:LEU:HB3	5:A3:48:ASP:H	1.52	0.46
5:A7:9:TYR:CE2	5:A7:10:LYS:HE3	2.50	0.46
6:AB:20:ILE:HD11	5:A9:8:LEU:HD23	1.97	0.46
5:AA:13:LEU:O	6:AB:9:LEU:HD13	2.15	0.46
1:AC:110:CYS:HA	1:AC:123:THR:HG1	1.79	0.46
9:AI:102:BCL:OBB	9:AI:102:BCL:HHC	2.14	0.46
5:AI:35:ILE:O	5:AI:36:HIS:C	2.51	0.46
5:AF:7:ASN:C	6:AJ:20:ILE:HD13	2.35	0.46
2:AL:192:ASN:C	2:AL:192:ASN:HD22	2.19	0.46
2:AL:199:HIS:C	2:AL:201:SER:N	2.69	0.46
2:AL:218:SER:O	2:AL:220:HIS:N	2.49	0.46
9:AL:301:BCL:HHC	9:AL:301:BCL:OBB	2.14	0.46
2:AL:35:PHE:HA	2:AL:38:VAL:HG22	1.98	0.46
3:AM:176:PRO:HD2	3:AM:185:TRP:HB2	1.97	0.46
5:AO:51:ILE:O	5:AO:52:PRO:C	2.53	0.46
5:AQ:25:VAL:HG13	5:AQ:26:ALA:N	2.31	0.46
5:AU:19:ARG:HH21	5:AU:19:ARG:HB2	1.79	0.46
5:AW:10:LYS:HA	5:AW:13:LEU:HD12	1.98	0.46
6:B0:17:PHE:C	6:B0:17:PHE:CD1	2.88	0.46
5:B5:18:ARG:CB	5:B5:19:ARG:NH1	2.78	0.46
6:BE:33:VAL:HG22	6:BE:37:LEU:HD23	1.95	0.46
4:BH:67:PHE:N	4:BH:76:VAL:O	2.39	0.46
2:BL:159:ILE:N	2:BL:159:ILE:HD12	2.29	0.46
2:BL:17:LEU:HD21	2:BL:114:VAL:HG12	1.97	0.46
2:BL:191:THR:CG2	11:BL:304:UQ8:H16	2.45	0.46
2:BL:75:ILE:HG22	2:BL:95:TRP:HB2	1.96	0.46
2:BL:98:ILE:HG22	2:BL:99:THR:N	2.29	0.46
3:BM:178:GLY:O	3:BM:182:HIS:CB	2.61	0.46
3:BM:196:LEU:HD12	9:BM:402:BCL:CHD	2.45	0.46
9:BM:402:BCL:HBB3	9:BM:402:BCL:HMB1	1.98	0.46
5:BO:50:ASN:OD1	5:BO:51:ILE:N	2.49	0.46
5:BQ:19:ARG:O	5:BQ:22:VAL:HG12	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:B3:55:TYR:HB2	5:B3:56:GLN:NE2	2.30	0.46
5:BS:7:ASN:HB3	5:BS:10:LYS:CE	2.42	0.46
2:BL:218:SER:O	2:BL:220:HIS:N	2.48	0.46
3:AM:13:VAL:HG12	4:AH:144:ILE:HA	1.98	0.46
6:AE:44:PRO:HG2	5:AF:52:PRO:HG2	1.98	0.46
4:BH:215:LYS:HE3	4:BH:250:ALA:O	2.15	0.46
1:BC:148:THR:HA	1:BC:322:GLN:HG2	1.96	0.46
6:B6:38:LEU:HD23	6:B6:38:LEU:O	2.15	0.46
5:A3:15:LEU:CD1	9:A5:102:BCL:H151	2.46	0.46
5:A7:25:VAL:HG13	9:A7:103:BCL:H51	1.97	0.46
4:AH:15:THR:O	4:AH:18:ALA:HB3	2.16	0.46
4:AH:197:ILE:CG2	4:AH:198:GLY:N	2.79	0.46
6:AJ:22:MET:O	6:AJ:26:TYR:HD1	1.99	0.46
2:AL:231:TYR:CG	2:AL:232:SER:N	2.83	0.46
3:AM:181:PRO:HA	3:AM:184:ASP:OD1	2.16	0.46
3:AM:77:ALA:O	3:AM:78:SER:C	2.54	0.46
3:AM:85:GLN:O	3:AM:89:HIS:N	2.47	0.46
6:AN:19:ALA:HB3	6:AN:20:ILE:HD12	1.98	0.46
5:AO:43:ASP:OD2	5:AQ:47:LEU:HB3	2.15	0.46
6:AP:44:PRO:HG2	5:AQ:52:PRO:CG	2.45	0.46
6:AT:15:LYS:HG2	6:AT:16:GLU:N	2.30	0.46
6:AT:16:GLU:HG2	6:AT:17:PHE:N	2.30	0.46
5:AW:30:VAL:HG13	5:AW:31:LEU:N	2.30	0.46
14:AW:102:CRT:C8	6:AZ:20:ILE:HD13	2.46	0.46
6:B0:37:LEU:HA	9:B0:102:BCL:H193	1.96	0.46
5:B1:40:LEU:HB2	5:B1:46:TRP:CH2	2.51	0.46
9:B2:101:BCL:HBB3	9:B3:102:BCL:CHC	2.45	0.46
5:B5:46:TRP:O	5:B5:49:ASP:OD1	2.33	0.46
5:BD:35:ILE:O	5:BD:39:VAL:HG23	2.16	0.46
9:BJ:101:BCL:CHB	9:BK:102:BCL:HMB3	2.45	0.46
9:BJ:101:BCL:HHC	9:BJ:101:BCL:OBB	2.14	0.46
2:BL:164:ASP:C	2:BL:166:VAL:N	2.68	0.46
2:BL:257:ILE:HG13	2:BL:257:ILE:O	2.16	0.46
2:BL:271:TRP:CZ2	2:BL:274:TRP:NE1	2.80	0.46
3:BM:250:LEU:O	3:BM:253:ARG:HB3	2.16	0.46
9:BM:402:BCL:OBB	9:BM:402:BCL:HHC	2.16	0.46
5:BK:36:HIS:NE2	9:BN:101:BCL:HMD1	2.28	0.46
5:BO:10:LYS:C	14:BO:103:CRT:H82	2.36	0.46
6:BP:39:ALA:O	6:BP:42:TYR:N	2.49	0.46
6:BX:42:TYR:CE2	6:BX:43:ARG:HD2	2.50	0.46
4:AH:253:GLU:O	4:AH:254:ARG:C	2.53	0.46
6:BE:44:PRO:CG	5:BF:55:TYR:OH	2.58	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:B3:51:ILE:HA	5:B3:53:VAL:N	2.22	0.46
1:AC:170:PRO:CG	1:AC:171:GLY:N	2.78	0.46
6:B4:38:LEU:O	6:B4:38:LEU:HD23	2.16	0.46
6:BX:33:VAL:O	6:BX:37:LEU:HB2	2.15	0.46
5:BU:53:VAL:HA	5:BU:55:TYR:CE1	2.50	0.46
5:B7:48:ASP:HA	5:B7:53:VAL:CB	2.46	0.46
5:A1:5:ASN:C	5:A1:8:LEU:HB3	2.36	0.46
5:A5:10:LYS:HB3	14:A5:103:CRT:H5	1.97	0.46
1:AC:20:LEU:HD13	1:AC:21:LEU:N	2.30	0.46
1:AC:254:ARG:C	1:AC:254:ARG:HD3	2.36	0.46
9:AJ:101:BCL:C3B	9:AK:102:BCL:C3B	2.93	0.46
6:AJ:17:PHE:CE1	6:AJ:21:PHE:HB2	2.51	0.46
2:AL:160:LEU:HD12	2:AL:161:SER:N	2.30	0.46
3:AM:137:ALA:HB3	3:AM:144:GLN:HE22	1.81	0.46
5:AS:34:LEU:CB	15:AS:101:PEF:C44	2.86	0.46
9:AU:102:BCL:O2D	6:AV:32:VAL:HG23	2.16	0.46
5:AU:26:ALA:CA	5:AU:29:ILE:HG22	2.45	0.46
6:AX:21:PHE:O	6:AX:22:MET:C	2.54	0.46
6:B2:25:MET:HG2	6:B2:29:PHE:HE2	1.80	0.46
9:B3:102:BCL:O2D	6:B4:32:VAL:HG22	2.15	0.46
6:B4:29:PHE:CE1	9:B4:101:BCL:H72	2.42	0.46
5:B9:2:PHE:HA	5:B9:5:ASN:HD22	1.80	0.46
4:BH:184:VAL:HB	4:BH:193:VAL:HG23	1.97	0.46
2:BL:147:LEU:HB3	2:BL:262:PRO:HB3	1.97	0.46
3:BM:153:ALA:HA	3:BM:277:VAL:HG11	1.98	0.46
3:BM:175:VAL:HG22	3:BM:185:TRP:CE3	2.51	0.46
3:BM:238:ILE:HD13	3:BM:262:MET:HG3	1.98	0.46
1:BC:175:PRO:HG3	3:BM:80:HIS:HA	1.98	0.46
5:BO:44:LEU:CD1	5:BO:46:TRP:N	2.79	0.46
5:BS:17:PRO:HA	5:BS:20:VAL:HG22	1.98	0.46
5:BS:43:ASP:CB	5:BU:56:GLN:HG3	2.45	0.46
6:BX:24:SER:O	6:BX:27:ALA:HB3	2.16	0.46
6:BX:29:PHE:N	6:BX:29:PHE:CD1	2.83	0.46
5:BY:30:VAL:O	5:BY:31:LEU:C	2.53	0.46
5:BU:43:ASP:HB2	5:BW:47:LEU:CB	2.45	0.46
4:BH:171:TRP:N	4:BH:181:TYR:O	2.49	0.46
4:BH:168:SER:N	4:BH:183:GLU:O	2.49	0.46
2:BL:22:LEU:HB2	5:B7:19:ARG:HG3	1.97	0.46
1:AC:82:LEU:HD13	1:AC:93:THR:HG21	1.97	0.46
5:BI:20:VAL:O	5:BI:24:ILE:HG12	2.15	0.46
6:BT:7:THR:OG1	6:BT:8:GLY:N	2.47	0.46
5:AQ:12:TRP:CE3	5:AQ:12:TRP:HA	2.51	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:A4:10:THR:O	6:A4:14:ALA:HB2	2.14	0.46
5:A5:29:ILE:HG23	5:A5:30:VAL:N	2.31	0.46
5:A7:32:GLY:N	9:A8:101:BCL:HED2	2.31	0.46
5:A5:43:ASP:HB2	5:A7:47:LEU:CG	2.45	0.46
9:A8:101:BCL:CHC	9:A9:102:BCL:CAB	2.93	0.46
9:AA:101:BCL:C2D	6:AB:35:ALA:HB1	2.46	0.46
1:AC:247:CYS:O	1:AC:251:HIS:HB2	2.16	0.46
1:AC:264:PRO:HG2	1:AC:265:LYS:CD	2.43	0.46
5:AD:36:HIS:NE2	9:AE:101:BCL:CMD	2.79	0.46
5:AF:28:GLN:HB2	9:AF:102:BCL:H43	1.97	0.46
5:AF:9:TYR:C	5:AF:9:TYR:CD1	2.89	0.46
6:AG:17:PHE:HD1	6:AG:17:PHE:C	2.18	0.46
4:AH:30:LEU:O	4:AH:34:ASP:N	2.48	0.46
9:AI:102:BCL:H143	14:AJ:102:CRT:H132	1.98	0.46
2:AL:46:GLY:HA2	2:AL:49:LEU:HB3	1.98	0.46
3:AM:115:TRP:HZ3	3:AM:116:LEU:HD12	1.81	0.46
3:AM:277:VAL:HG22	10:AM:403:BPH:HBC1	1.98	0.46
3:AM:307:TYR:CD1	3:AM:307:TYR:N	2.84	0.46
10:AM:403:BPH:H112	15:AS:101:PEF:C16	2.46	0.46
9:AR:101:BCL:C4	9:AS:103:BCL:HMA2	2.46	0.46
5:AS:13:LEU:CB	14:AS:104:CRT:H31A	2.42	0.46
14:AT:102:CRT:H2M1	5:AU:37:MET:HG2	1.96	0.46
5:AU:42:THR:HB	5:AW:48:ASP:CB	2.45	0.46
6:AV:45:TRP:CE3	9:AV:102:BCL:HAC2	2.51	0.46
5:AY:30:VAL:CA	5:AY:33:LEU:HG	2.45	0.46
9:B0:102:BCL:OBB	9:B0:102:BCL:HHC	2.15	0.46
5:B1:46:TRP:CZ3	9:B1:102:BCL:HBC3	2.51	0.46
6:B2:21:PHE:HE1	14:B2:102:CRT:C19	2.28	0.46
6:B4:13:GLU:O	6:B4:16:GLU:CG	2.63	0.46
6:B6:31:LEU:HA	6:B6:34:ILE:CG2	2.45	0.46
6:B8:22:MET:HG3	6:B8:26:TYR:HE2	1.80	0.46
5:BA:31:LEU:HD21	14:BB:102:CRT:H32	1.98	0.46
6:BB:29:PHE:HE1	9:BB:101:BCL:C2	2.28	0.46
1:BC:133:LEU:HA	1:BC:283:TYR:CE2	2.51	0.46
1:BC:201:THR:N	1:BC:202:PRO:HD2	2.31	0.46
1:BC:210:ILE:O	1:BC:210:ILE:CG2	2.60	0.46
5:BD:46:TRP:NE1	9:BD:102:BCL:HHC	2.31	0.46
5:BF:12:TRP:CZ2	6:BG:21:PHE:CE2	3.04	0.46
5:BF:9:TYR:HA	6:BG:18:HIS:ND1	2.31	0.46
4:BH:182:LEU:HD12	4:BH:182:LEU:N	2.30	0.46
4:BH:80:ARG:HG3	4:BH:80:ARG:NH1	2.31	0.46
2:BL:192:ASN:ND2	2:BL:193:CYS:N	2.63	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:94:LEU:HD23	2:BL:95:TRP:N	2.31	0.46
3:BM:248:ALA:O	3:BM:249:ALA:C	2.54	0.46
2:BL:30:PHE:HD2	3:BM:255:THR:O	1.99	0.46
2:BL:193:CYS:O	10:BM:403:BPH:H3C	2.15	0.46
6:BP:10:THR:CG2	6:BP:11:ASP:N	2.73	0.46
9:BQ:103:BCL:C2D	9:BQ:104:BCL:C2D	2.93	0.46
5:BO:43:ASP:OD2	5:BQ:47:LEU:O	2.33	0.46
6:BV:17:PHE:HB2	14:BV:102:CRT:H42	1.97	0.46
5:BY:32:GLY:HA3	9:BY:102:BCL:O1A	2.15	0.46
9:BY:102:BCL:ND	9:BZ:101:BCL:CMD	2.79	0.46
6:BN:19:ALA:HB3	6:BN:20:ILE:HD12	1.98	0.46
1:BC:316:LYS:O	1:BC:320:GLY:N	2.44	0.46
1:BC:52:SER:CB	1:BC:319:TYR:OH	2.64	0.46
6:BE:23:GLN:CG	6:BE:24:SER:N	2.78	0.46
1:BC:164:TYR:O	1:BC:309:THR:HG23	2.15	0.46
6:BV:10:THR:CG2	6:BV:11:ASP:N	2.79	0.46
6:AT:33:VAL:HG13	6:AT:34:ILE:N	2.30	0.46
5:A5:35:ILE:HA	5:A5:38:ILE:CG2	2.45	0.46
2:BL:214:PRO:HA	4:BH:68:VAL:O	2.16	0.46
5:A1:21:LEU:HD11	9:A1:102:BCL:H142	1.97	0.46
5:A1:36:HIS:CE1	9:A1:102:BCL:NA	2.83	0.46
5:A5:44:LEU:CD1	5:A5:46:TRP:HB3	2.45	0.46
5:A7:10:LYS:CB	14:A0:101:CRT:H83	2.45	0.46
5:A7:33:LEU:O	5:A7:37:MET:HB2	2.15	0.46
5:A5:4:MET:SD	6:A8:24:SER:O	2.74	0.46
5:AA:47:LEU:HB3	5:A9:43:ASP:HA	1.98	0.46
1:AC:129:ARG:HG2	1:AC:287:LEU:HD11	1.98	0.46
1:AC:167:VAL:CG2	1:AC:297:GLY:HA3	2.41	0.46
4:AH:152:ARG:HG2	4:AH:168:SER:O	2.16	0.46
5:AI:36:HIS:NE2	9:AJ:101:BCL:CMD	2.78	0.46
2:AL:238:ILE:HD12	2:AL:238:ILE:HA	1.84	0.46
2:AL:268:TRP:O	2:AL:271:TRP:N	2.49	0.46
11:AL:304:UQ8:H10	11:AL:304:UQ8:H7	1.76	0.46
2:AL:46:GLY:O	2:AL:48:LEU:N	2.49	0.46
3:AM:244:ALA:C	3:AM:246:GLU:N	2.69	0.46
5:AO:43:ASP:CB	5:AQ:47:LEU:HB3	2.46	0.46
5:AY:4:MET:HB2	5:AY:8:LEU:HD12	1.98	0.46
6:B2:13:GLU:C	14:B2:102:CRT:C3	2.80	0.46
5:B1:13:LEU:O	6:B2:7:THR:HA	2.15	0.46
5:B5:44:LEU:N	5:B5:44:LEU:HD23	2.31	0.46
5:B7:40:LEU:HD12	5:B7:45:ASN:HA	1.97	0.46
6:BB:33:VAL:HG13	6:BB:34:ILE:N	2.31	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BD:40:LEU:HD11	5:BD:47:LEU:HD23	1.98	0.46
5:BF:12:TRP:HB2	6:BG:14:ALA:HB1	1.96	0.46
9:BK:102:BCL:C1D	9:BN:101:BCL:CMD	2.79	0.46
9:BK:102:BCL:HBB2	9:BK:102:BCL:HMB1	1.97	0.46
2:BL:213:GLU:OE2	2:BL:213:GLU:HA	2.16	0.46
3:BM:200:PRO:HG2	3:BM:201:PHE:H	1.81	0.46
3:BM:261:THR:C	3:BM:263:GLU:H	2.19	0.46
2:BL:226:ARG:O	3:BM:50:PRO:O	2.33	0.46
5:BO:26:ALA:HA	5:BO:29:ILE:CG2	2.45	0.46
6:BT:45:TRP:O	6:BT:46:LEU:HB2	2.16	0.46
6:BZ:18:HIS:NE2	6:BZ:22:MET:HE2	2.30	0.46
4:AH:180:ARG:HG2	4:AH:180:ARG:NH1	2.31	0.46
3:BM:98:PRO:HA	3:BM:99:PRO:HD3	1.83	0.46
4:BH:138:VAL:C	4:BH:140:LYS:HD3	2.36	0.46
5:BW:54:SER:O	5:BW:58:LEU:N	2.43	0.46
6:A0:21:PHE:CG	6:A0:22:MET:N	2.84	0.46
6:A0:45:TRP:O	6:A0:46:LEU:CB	2.60	0.46
5:A3:8:LEU:O	5:A3:11:ILE:HG13	2.16	0.46
5:A5:8:LEU:O	5:A5:11:ILE:HG13	2.16	0.46
5:A5:19:ARG:HH21	5:A5:19:ARG:HG2	1.81	0.46
5:A7:7:ASN:O	5:A7:10:LYS:HD3	2.16	0.46
9:A8:101:BCL:C15	9:A8:101:BCL:C20	2.94	0.46
9:AA:101:BCL:OBB	9:AA:101:BCL:HHC	2.15	0.46
4:AH:182:LEU:HD13	4:AH:195:LEU:CD2	2.46	0.46
4:AH:35:LYS:HZ1	4:AH:59:PRO:HD2	1.80	0.46
1:AC:20:LEU:HG	2:AL:271:TRP:CE2	2.50	0.46
2:AL:50:ILE:HG23	2:AL:51:VAL:N	2.30	0.46
10:AL:302:BPH:HED1	3:AM:255:THR:HG21	1.98	0.46
15:AM:407:PEF:H32	4:AH:29:TYR:CZ	2.51	0.46
5:AO:11:ILE:CG1	14:AR:102:CRT:H81	2.45	0.46
5:AU:30:VAL:CG1	5:AU:31:LEU:H	2.28	0.46
5:AW:35:ILE:HG23	5:AW:36:HIS:N	2.30	0.46
6:B0:25:MET:HG3	14:B0:101:CRT:C20	2.46	0.46
14:B1:103:CRT:H81	14:B1:103:CRT:H10	1.79	0.46
9:B6:101:BCL:OBB	9:B6:101:BCL:HHC	2.14	0.46
9:B8:101:BCL:CMC	9:B9:102:BCL:OBB	2.64	0.46
5:BA:47:LEU:N	5:BA:47:LEU:HD22	2.31	0.46
1:BC:166:TRP:O	1:BC:166:TRP:CD2	2.69	0.46
6:BG:33:VAL:O	6:BG:37:LEU:HB2	2.15	0.46
4:BH:141:GLU:OE1	4:BH:141:GLU:N	2.46	0.46
5:BK:46:TRP:HA	5:BK:49:ASP:CG	2.35	0.46
2:BL:179:ASN:HB3	2:BL:182:HIS:HB3	1.96	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:50:ILE:CA	2:BL:98:ILE:HD11	2.46	0.46
3:BM:211:GLY:O	3:BM:214:LEU:N	2.42	0.46
2:BL:207:THR:CG2	3:BM:238:ILE:HG13	2.41	0.46
5:BO:9:TYR:HA	6:BP:18:HIS:CE1	2.51	0.46
5:BQ:22:VAL:HA	5:BQ:25:VAL:HG12	1.98	0.46
5:AS:52:PRO:O	5:AS:53:VAL:C	2.53	0.46
1:AC:26:PRO:HB2	1:AC:27:PRO:HA	1.98	0.46
5:BA:18:ARG:CD	5:BA:18:ARG:H	2.19	0.46
5:BO:27:PHE:CD1	5:BO:27:PHE:C	2.89	0.46
6:BE:20:ILE:O	6:BE:23:GLN:HG3	2.15	0.46
3:AM:199:ASN:HA	3:AM:294:TRP:CE3	2.50	0.46
1:AC:187:SER:C	1:AC:189:THR:N	2.68	0.46
5:BQ:18:ARG:HA	5:BQ:21:LEU:HD12	1.98	0.46
5:AU:2:PHE:CD1	5:AU:2:PHE:C	2.90	0.46
6:A2:21:PHE:HE1	14:A2:102:CRT:C16	2.24	0.46
5:A3:19:ARG:HG2	5:A3:20:VAL:N	2.31	0.46
5:A5:32:GLY:HA2	9:A6:101:BCL:HED2	1.98	0.46
5:A7:7:ASN:CA	5:A7:10:LYS:HZ2	2.29	0.46
5:AD:29:ILE:HB	9:AD:102:BCL:C4	2.46	0.46
4:AH:130:LEU:HD11	4:AH:174:ARG:HH22	1.81	0.46
4:AH:27:ILE:C	4:AH:27:ILE:HD13	2.37	0.46
4:AH:49:SER:O	15:AH:301:PEF:H32	2.15	0.46
4:AH:48:ARG:HH21	15:AH:301:PEF:P	2.38	0.46
5:AI:51:ILE:HA	5:AI:52:PRO:HA	1.69	0.46
6:AJ:16:GLU:OE2	14:AJ:102:CRT:H23	2.16	0.46
9:AK:102:BCL:HAC2	9:AN:101:BCL:HBC1	1.96	0.46
9:AJ:101:BCL:NB	9:AK:102:BCL:HMB3	2.28	0.46
2:AL:106:PHE:CD2	9:AL:301:BCL:H91	2.50	0.46
2:AL:138:LEU:O	2:AL:142:PHE:N	2.49	0.46
2:AL:51:VAL:HG11	5:AA:37:MET:HG2	1.98	0.46
3:AM:66:VAL:CG1	3:AM:121:PHE:HD2	2.20	0.46
3:AM:156:PHE:CD1	3:AM:281:GLY:CA	2.99	0.46
5:BA:33:LEU:CA	14:B0:101:CRT:C2M	2.94	0.46
6:B2:10:THR:HG23	6:B2:12:ASP:H	1.81	0.46
6:B2:21:PHE:CG	6:B2:22:MET:N	2.84	0.46
5:BA:47:LEU:CB	5:B9:43:ASP:HB2	2.46	0.46
5:BA:29:ILE:O	5:BA:33:LEU:HD13	2.16	0.46
1:BC:232:THR:O	1:BC:235:LEU:HB3	2.15	0.46
4:BH:170:VAL:HG12	4:BH:182:LEU:HB3	1.98	0.46
2:BL:17:LEU:HD11	2:BL:114:VAL:CB	2.39	0.46
3:BM:152:ALA:CB	3:BM:274:VAL:HG13	2.46	0.46
5:BK:12:TRP:CD1	6:BN:17:PHE:HD2	2.34	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BO:8:LEU:HG	6:BP:18:HIS:NE2	2.31	0.46
9:BU:102:BCL:OBB	9:BU:102:BCL:HHC	2.15	0.46
9:BU:102:BCL:OBD	6:BV:32:VAL:HG23	2.16	0.46
5:BU:13:LEU:HD21	6:BV:14:ALA:HB2	1.98	0.46
6:BV:33:VAL:HG13	6:BV:34:ILE:N	2.31	0.46
2:AL:78:PRO:O	2:AL:152:GLY:HA3	2.16	0.46
6:AZ:38:LEU:C	6:AZ:38:LEU:HD23	2.36	0.46
6:B4:40:TRP:CZ3	6:B4:44:PRO:CA	2.96	0.46
6:BX:9:LEU:HD22	6:BX:13:GLU:HG3	1.98	0.46
6:BP:30:GLY:HA2	6:BP:33:VAL:HG12	1.98	0.46
4:AH:95:ALA:HB3	4:AH:98:SER:OG	2.15	0.46
6:A0:26:TYR:O	6:A0:29:PHE:HB2	2.16	0.45
5:A1:21:LEU:O	5:A1:25:VAL:HG23	2.15	0.45
9:A3:103:BCL:C2D	9:A3:104:BCL:C2D	2.94	0.45
5:A5:25:VAL:HG13	9:A5:102:BCL:C5	2.46	0.45
5:A7:7:ASN:N	5:A7:7:ASN:HD22	2.09	0.45
9:A8:101:BCL:C15	9:A8:101:BCL:H203	2.32	0.45
1:AC:121:ILE:O	1:AC:124:LYS:N	2.48	0.45
6:AE:31:LEU:HA	6:AE:34:ILE:HG22	1.97	0.45
15:AM:408:PEF:C5	4:AH:204:LYS:HE2	2.41	0.45
5:AF:8:LEU:HD22	14:AJ:102:CRT:H133	1.96	0.45
2:AL:171:TYR:OH	3:AM:191:ILE:HD11	2.16	0.45
2:AL:242:GLY:CA	3:AM:216:PHE:CE2	2.99	0.45
10:AL:302:BPH:H162	9:AM:401:BCL:CMB	2.46	0.45
10:AL:302:BPH:H6C1	9:AM:401:BCL:H202	1.98	0.45
9:AL:303:BCL:HMB1	9:AL:303:BCL:HBB3	1.97	0.45
3:AM:79:VAL:O	3:AM:79:VAL:HG22	2.16	0.45
3:AM:74:ASN:ND2	3:AM:95:LEU:HD13	2.32	0.45
6:AR:17:PHE:O	6:AR:20:ILE:HG22	2.16	0.45
6:AT:22:MET:HB3	6:AT:26:TYR:HE1	1.80	0.45
5:AU:19:ARG:NH2	5:AU:19:ARG:HB2	2.31	0.45
9:AU:102:BCL:O2D	6:AV:32:VAL:CG2	2.64	0.45
5:B1:13:LEU:CB	14:B1:103:CRT:C1M	2.78	0.45
6:B2:17:PHE:HD1	14:B2:102:CRT:C6	2.27	0.45
5:B7:35:ILE:O	5:B7:36:HIS:C	2.54	0.45
6:B8:20:ILE:HD13	6:B8:20:ILE:C	2.36	0.45
6:B8:22:MET:HG3	6:B8:26:TYR:CE2	2.51	0.45
1:BC:135:ARG:HG2	1:BC:330:LEU:HA	1.98	0.45
1:BC:212:ILE:O	1:BC:222:ASN:ND2	2.49	0.45
9:BF:102:BCL:HAC2	9:BG:101:BCL:CBC	2.46	0.45
4:BH:246:GLY:O	4:BH:254:ARG:NH1	2.47	0.45
2:BL:194:LEU:CD2	2:BL:198:MET:HE2	2.46	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:237:ALA:O	2:BL:238:ILE:C	2.54	0.45
2:BL:184:LEU:CB	2:BL:252:TRP:NE1	2.79	0.45
9:BL:303:BCL:HBB3	9:BL:303:BCL:HMB1	1.96	0.45
3:BM:191:ILE:O	3:BM:193:TYR:N	2.49	0.45
3:BM:202:HIS:C	3:BM:204:LEU:H	2.18	0.45
5:BW:8:LEU:HD22	5:BW:11:ILE:HD11	1.98	0.45
4:BH:173:ASP:OD1	4:BH:174:ARG:N	2.49	0.45
4:AH:246:GLY:O	4:AH:254:ARG:NH1	2.49	0.45
5:BK:5:ASN:ND2	6:BN:22:MET:HG2	2.31	0.45
4:BH:235:GLU:HA	4:BH:238:LYS:CB	2.45	0.45
5:AK:22:VAL:O	5:AK:25:VAL:HB	2.15	0.45
5:BQ:17:PRO:O	5:BQ:20:VAL:HG22	2.15	0.45
5:A9:53:VAL:O	5:A9:54:SER:C	2.55	0.45
6:AZ:40:TRP:O	6:AZ:40:TRP:CD1	2.69	0.45
9:A2:101:BCL:HBB2	9:A2:101:BCL:HMB1	1.97	0.45
5:A3:42:THR:O	5:A3:43:ASP:C	2.54	0.45
5:A3:46:TRP:NE1	5:A3:47:LEU:HD22	2.32	0.45
5:A5:4:MET:HG3	6:A8:27:ALA:HB1	1.89	0.45
6:A6:44:PRO:O	5:A7:52:PRO:CD	2.63	0.45
9:A9:102:BCL:HBB3	9:A9:102:BCL:HMB1	1.98	0.45
9:AA:101:BCL:HBC1	9:AB:101:BCL:HBC3	1.99	0.45
14:AA:102:CRT:H32	5:AD:31:LEU:CD2	2.46	0.45
5:AD:29:ILE:HG23	5:AD:30:VAL:N	2.31	0.45
5:AF:26:ALA:O	5:AF:29:ILE:N	2.49	0.45
4:AH:122:HIS:N	4:AH:232:THR:HB	2.32	0.45
2:AL:32:VAL:HG12	2:AL:37:VAL:HG13	1.98	0.45
3:AM:222:THR:O	3:AM:223:ILE:C	2.55	0.45
2:AL:30:PHE:CZ	3:AM:257:GLY:HA3	2.51	0.45
3:AM:291:VAL:HG21	3:AM:297:TRP:CD1	2.52	0.45
3:AM:34:PRO:HG3	3:AM:50:PRO:HD3	1.98	0.45
6:AN:17:PHE:HD1	14:AN:102:CRT:H6	1.80	0.45
6:AP:33:VAL:HG22	6:AP:37:LEU:HD23	1.97	0.45
5:AS:34:LEU:HG	5:AS:34:LEU:O	2.17	0.45
5:AQ:43:ASP:HB2	5:AS:47:LEU:CB	2.46	0.45
6:AT:45:TRP:O	5:AU:52:PRO:HD2	2.15	0.45
9:AW:101:BCL:H71	6:AX:28:TRP:CE3	2.51	0.45
5:AW:22:VAL:O	5:AW:25:VAL:HB	2.15	0.45
5:AW:33:LEU:HD12	5:AW:34:LEU:N	2.31	0.45
9:AW:101:BCL:CBC	9:AX:101:BCL:HHD	2.44	0.45
5:AY:9:TYR:CG	6:AZ:15:LYS:HG2	2.52	0.45
6:AZ:45:TRP:HE3	9:AZ:101:BCL:HAC2	1.72	0.45
2:BL:89:LEU:HD11	5:B7:38:ILE:HD11	1.98	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:B9:5:ASN:O	5:B9:6:ALA:C	2.54	0.45
1:BC:268:THR:HG21	7:BC:504:HEM:HAA1	1.97	0.45
5:BF:38:ILE:HD11	5:BI:37:MET:CE	2.46	0.45
5:BK:39:VAL:HG12	5:BK:39:VAL:O	2.15	0.45
2:BL:184:LEU:O	2:BL:185:ALA:C	2.54	0.45
2:BL:246:ALA:C	2:BL:248:SER:N	2.69	0.45
2:BL:106:PHE:CD1	10:BL:302:BPH:H1C1	2.51	0.45
3:BM:138:GLU:C	3:BM:140:LEU:N	2.67	0.45
3:BM:284:ILE:CD1	9:BM:402:BCL:OBD	2.64	0.45
3:BM:284:ILE:CG1	9:BM:402:BCL:OBD	2.64	0.45
5:BO:44:LEU:CD1	5:BO:46:TRP:H	2.30	0.45
5:BU:38:ILE:HD12	14:BV:102:CRT:C40	2.46	0.45
6:BV:18:HIS:NE2	6:BV:22:MET:CE	2.79	0.45
2:BL:22:LEU:HB2	5:B7:19:ARG:HB3	1.95	0.45
1:BC:76:TYR:HB3	7:BC:501:HEM:O2A	2.16	0.45
6:AE:10:THR:CG2	6:AE:11:ASP:H	2.23	0.45
1:BC:68:THR:O	1:BC:86:SER:HB2	2.17	0.45
1:BC:187:SER:C	1:BC:189:THR:N	2.68	0.45
4:BH:90:THR:HG23	4:BH:103:ASN:OD1	2.16	0.45
5:A1:32:GLY:N	9:A2:101:BCL:HED2	2.32	0.45
1:AC:161:VAL:HG22	7:AC:502:HEM:O1D	2.17	0.45
5:AD:40:LEU:O	5:AD:41:SER:O	2.34	0.45
4:AH:169:ASP:N	4:AH:183:GLU:HB2	2.31	0.45
5:AF:49:ASP:CB	5:AI:56:GLN:HB2	2.46	0.45
5:AK:5:ASN:O	5:AK:8:LEU:HB2	2.16	0.45
2:AL:108:SER:O	2:AL:111:LEU:N	2.50	0.45
2:AL:30:PHE:HA	3:AM:254:TRP:HA	1.98	0.45
2:AL:31:TYR:CD1	2:AL:32:VAL:N	2.84	0.45
3:AM:134:TYR:CA	3:AM:144:GLN:NE2	2.78	0.45
3:AM:170:SER:O	3:AM:172:ALA:N	2.48	0.45
2:AL:30:PHE:HD2	3:AM:255:THR:O	2.00	0.45
3:AM:267:ARG:NH2	15:AM:407:PEF:O2P	2.50	0.45
3:AM:286:LEU:HD22	3:AM:290:VAL:HG11	1.99	0.45
5:AO:12:TRP:CH2	6:AP:17:PHE:CE2	3.04	0.45
5:AW:45:ASN:O	5:AW:47:LEU:N	2.50	0.45
5:AW:2:PHE:CB	5:AW:5:ASN:HB2	2.46	0.45
9:AZ:101:BCL:H2A	9:AZ:101:BCL:CGD	2.46	0.45
9:B2:101:BCL:HMA1	9:B3:102:BCL:HHB	1.98	0.45
14:B5:103:CRT:H11	5:B7:21:LEU:HD13	1.98	0.45
5:B5:28:GLN:O	5:B5:32:GLY:N	2.49	0.45
1:BC:226:LEU:HD12	3:BM:192:ARG:CB	2.46	0.45
1:BC:233:PHE:O	1:BC:236:MET:N	2.50	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:251:HIS:CG	1:BC:256:PHE:HD1	2.34	0.45
5:BF:11:ILE:HG23	5:BF:12:TRP:CE3	2.51	0.45
9:BG:101:BCL:HBB3	9:BI:102:BCL:C1C	2.46	0.45
4:BH:193:VAL:HG23	4:BH:193:VAL:O	2.16	0.45
3:BM:243:THR:HG22	4:BH:237:ASP:OD1	2.16	0.45
5:BI:45:ASN:C	5:BI:49:ASP:HB3	2.37	0.45
6:BJ:22:MET:O	6:BJ:25:MET:HB3	2.17	0.45
5:BI:49:ASP:OD2	6:BJ:43:ARG:NH2	2.49	0.45
2:BL:38:VAL:O	2:BL:41:CYS:N	2.50	0.45
3:BM:234:GLU:O	3:BM:237:GLN:N	2.50	0.45
3:BM:236:ASP:O	3:BM:240:HIS:N	2.49	0.45
9:BK:102:BCL:CHD	9:BN:101:BCL:HMD2	2.44	0.45
5:BQ:50:ASN:OD1	5:BQ:51:ILE:N	2.48	0.45
6:BX:21:PHE:O	6:BX:22:MET:C	2.54	0.45
9:BY:102:BCL:ND	9:BZ:101:BCL:HMD2	2.32	0.45
6:BT:10:THR:H	6:BT:13:GLU:CD	2.20	0.45
2:AL:144:ARG:CB	2:AL:145:PRO:CD	2.95	0.45
1:BC:82:LEU:CD1	1:BC:93:THR:HG21	2.47	0.45
3:BM:116:LEU:HD11	3:BM:171:TRP:CZ2	2.52	0.45
5:BI:16:ASP:HB2	5:BI:19:ARG:CB	2.46	0.45
1:BC:84:ASP:OD2	1:BC:333:THR:HG21	2.16	0.45
5:A5:10:LYS:C	14:A5:103:CRT:H5	2.36	0.45
6:A6:32:VAL:O	6:A6:35:ALA:HB3	2.16	0.45
5:AA:9:TYR:C	5:AA:11:ILE:H	2.20	0.45
5:AA:22:VAL:C	5:AA:24:ILE:H	2.19	0.45
5:AA:35:ILE:HG21	9:AB:101:BCL:C4D	2.46	0.45
14:AB:102:CRT:H391	5:AD:36:HIS:CG	2.51	0.45
3:AM:268:TRP:CE2	4:AH:30:LEU:HD13	2.51	0.45
2:AL:135:GLY:O	2:AL:138:LEU:N	2.44	0.45
2:AL:96:GLN:O	2:AL:100:ILE:N	2.45	0.45
3:AM:99:PRO:O	3:AM:101:GLN:N	2.50	0.45
9:AL:301:BCL:HAC1	3:AM:197:TYR:OH	2.16	0.45
3:AM:62:PHE:C	3:AM:64:GLY:N	2.69	0.45
5:AO:52:PRO:C	5:AO:54:SER:H	2.19	0.45
6:AR:45:TRP:O	6:AR:46:LEU:HB2	2.17	0.45
5:AW:34:LEU:HD21	14:AX:102:CRT:C40	2.41	0.45
5:AY:5:ASN:HA	6:AZ:18:HIS:NE2	2.31	0.45
5:B5:46:TRP:CD1	5:B5:47:LEU:N	2.85	0.45
6:B6:32:VAL:O	6:B6:35:ALA:HB3	2.15	0.45
5:B7:8:LEU:O	5:B7:11:ILE:HG22	2.16	0.45
5:B7:11:ILE:HG12	5:B7:15:LEU:HG	1.99	0.45
1:BC:286:PRO:C	1:BC:288:ASN:H	2.20	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:BH:182:LEU:HD13	4:BH:195:LEU:CG	2.46	0.45
4:BH:197:ILE:HG23	4:BH:198:GLY:N	2.31	0.45
4:BH:28:ILE:O	4:BH:29:TYR:C	2.55	0.45
4:BH:54:LYS:HE2	5:BD:23:SER:CB	2.45	0.45
2:BL:129:ALA:HA	2:BL:247:LEU:CD1	2.46	0.45
2:BL:182:HIS:CB	2:BL:256:CYS:SG	3.04	0.45
2:BL:181:ALA:O	2:BL:182:HIS:C	2.55	0.45
2:BL:224:PHE:O	2:BL:228:ILE:HG13	2.17	0.45
2:BL:69:ASN:O	2:BL:70:LEU:C	2.54	0.45
3:BM:249:ALA:O	3:BM:259:ASN:OD1	2.34	0.45
5:BK:32:GLY:N	9:BN:101:BCL:HED2	2.31	0.45
5:BS:27:PHE:CG	5:BU:29:ILE:HD11	2.52	0.45
5:BU:6:ALA:HA	6:BV:15:LYS:NZ	2.30	0.45
5:BW:30:VAL:HG13	5:BW:31:LEU:N	2.30	0.45
5:BY:52:PRO:HD2	5:BY:55:TYR:CE2	2.51	0.45
5:AS:49:ASP:OD2	5:AS:50:ASN:ND2	2.48	0.45
1:AC:41:GLU:O	2:AL:172:GLN:NE2	2.50	0.45
1:AC:135:ARG:CG	1:AC:330:LEU:HA	2.38	0.45
3:AM:27:ASN:ND2	5:AO:19:ARG:NH1	2.61	0.45
2:BL:82:TYR:CB	2:BL:85:ARG:HE	2.28	0.45
5:AW:43:ASP:OD1	5:AW:44:LEU:N	2.50	0.45
9:A1:102:BCL:HMB1	9:A1:102:BCL:HBB3	1.97	0.45
5:AY:43:ASP:HB2	5:A1:47:LEU:CD1	2.47	0.45
14:A5:103:CRT:H31	9:A9:102:BCL:O2A	2.16	0.45
5:A5:43:ASP:OD2	5:A7:47:LEU:CA	2.58	0.45
9:A6:101:BCL:CHC	9:A7:103:BCL:CBB	2.91	0.45
5:A7:28:GLN:O	5:A7:31:LEU:HB3	2.16	0.45
5:AA:21:LEU:HD23	5:A9:14:ILE:HG21	1.98	0.45
5:AD:46:TRP:HE1	9:AD:102:BCL:HHC	1.81	0.45
4:AH:139:ALA:HA	4:AH:141:GLU:OE1	2.15	0.45
5:AI:43:ASP:O	5:AI:44:LEU:CB	2.65	0.45
5:AI:52:PRO:HB2	5:AI:55:TYR:CE2	2.52	0.45
6:AJ:20:ILE:HG23	6:AJ:21:PHE:N	2.32	0.45
9:AK:102:BCL:HHC	9:AK:102:BCL:OBB	2.16	0.45
2:AL:10:TYR:HA	4:AH:112:GLY:CA	2.46	0.45
2:AL:10:TYR:HD1	4:AH:112:GLY:HA2	1.81	0.45
2:AL:231:TYR:CE1	2:AL:233:ILE:HA	2.52	0.45
2:AL:192:ASN:HA	2:AL:245:LEU:HD12	1.99	0.45
3:AM:155:PHE:O	3:AM:159:VAL:HG23	2.15	0.45
3:AM:226:VAL:CG2	3:AM:244:ALA:HA	2.46	0.45
3:AM:286:LEU:CD2	3:AM:290:VAL:HG21	2.46	0.45
9:AM:401:BCL:HBB2	9:AM:401:BCL:HMB1	1.97	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AM:61:ILE:HG23	3:AM:62:PHE:N	2.31	0.45
6:AR:40:TRP:HH2	6:AR:46:LEU:HD11	1.81	0.45
6:AR:46:LEU:CB	6:AT:42:TYR:CE2	2.88	0.45
5:AU:43:ASP:OD1	5:AU:44:LEU:HD23	2.17	0.45
5:AW:32:GLY:N	9:AX:101:BCL:HED2	2.32	0.45
5:AU:43:ASP:CB	5:AW:47:LEU:HB3	2.46	0.45
6:AX:29:PHE:CD1	6:AX:29:PHE:N	2.84	0.45
6:AX:28:TRP:O	6:AX:31:LEU:N	2.50	0.45
9:AZ:101:BCL:HHC	9:AZ:101:BCL:OBB	2.16	0.45
9:B2:101:BCL:C2B	9:B3:102:BCL:C2B	2.94	0.45
9:BA:101:BCL:HED1	6:BB:31:LEU:HB3	1.99	0.45
5:BA:46:TRP:CA	6:BB:43:ARG:HH12	2.27	0.45
1:BC:21:LEU:O	1:BC:21:LEU:HD23	2.16	0.45
1:BC:276:VAL:CG1	1:BC:277:ARG:H	2.27	0.45
9:BG:101:BCL:C1B	9:BI:102:BCL:CMB	2.89	0.45
4:BH:39:TYR:CD1	4:BH:40:PRO:HA	2.50	0.45
2:BL:126:VAL:O	2:BL:127:PRO:C	2.54	0.45
2:BL:168:ASN:O	2:BL:169:VAL:C	2.54	0.45
2:BL:129:ALA:CA	2:BL:247:LEU:HD11	2.46	0.45
3:BM:8:PHE:O	3:BM:10:ALA:N	2.49	0.45
6:BN:43:ARG:HB3	5:BO:55:TYR:HE2	1.78	0.45
5:BO:26:ALA:CA	5:BO:29:ILE:HG22	2.46	0.45
6:BP:20:ILE:HG23	6:BP:21:PHE:N	2.32	0.45
6:BR:21:PHE:CD1	6:BR:22:MET:N	2.85	0.45
14:BU:103:CRT:H342	9:BY:102:BCL:H3A	1.99	0.45
4:BH:132:LYS:HG3	4:BH:173:ASP:OD1	2.16	0.45
5:AY:20:VAL:HA	5:AY:23:SER:OG	2.16	0.45
1:BC:314:VAL:HG12	1:BC:315:ASN:N	2.31	0.45
6:A0:45:TRP:NE1	9:A0:102:BCL:H193	2.28	0.45
5:A1:24:ILE:C	5:A1:26:ALA:N	2.69	0.45
5:A1:12:TRP:CD2	6:A2:17:PHE:HE2	2.34	0.45
6:A2:20:ILE:HD12	14:A2:102:CRT:H83	1.98	0.45
5:A5:11:ILE:CA	14:A5:103:CRT:H82	2.45	0.45
6:A8:43:ARG:HH21	5:A9:55:TYR:CB	2.26	0.45
4:AH:47:GLU:HG3	5:AA:19:ARG:CB	2.46	0.45
3:AM:149:ALA:O	3:AM:150:PHE:C	2.54	0.45
3:AM:276:THR:CG2	3:AM:277:VAL:N	2.70	0.45
3:AM:70:ILE:HG22	3:AM:71:ILE:N	2.31	0.45
3:AM:8:PHE:HB3	3:AM:42:LYS:O	2.16	0.45
5:AO:21:LEU:HD11	14:AP:102:CRT:H14	1.99	0.45
6:AR:45:TRP:CD2	9:AR:101:BCL:H2C	2.51	0.45
5:AW:50:ASN:HA	5:AY:60:LYS:HA	1.99	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:252:ASN:O	1:BC:254:ARG:N	2.49	0.45
1:BC:291:LEU:HD22	1:BC:295:ARG:HB2	1.98	0.45
1:BC:273:ILE:HA	7:BC:504:HEM:HBB2	1.99	0.45
5:BF:43:ASP:C	5:BF:43:ASP:OD1	2.55	0.45
5:BF:49:ASP:OD1	5:BF:50:ASN:N	2.50	0.45
3:BM:267:ARG:HB3	4:BH:30:LEU:CD2	2.45	0.45
5:BI:46:TRP:CD1	5:BI:47:LEU:HD12	2.52	0.45
3:BM:265:ILE:HD13	13:BM:405:MQ8:H143	1.99	0.45
3:BM:85:GLN:HG3	3:BM:89:HIS:CD2	2.51	0.45
5:BQ:16:ASP:O	5:BQ:19:ARG:HB3	2.17	0.45
5:BQ:35:ILE:O	5:BQ:38:ILE:HG22	2.16	0.45
5:BQ:42:THR:HG23	5:BQ:43:ASP:N	2.19	0.45
5:BW:9:TYR:CD1	5:BW:9:TYR:C	2.90	0.45
5:BY:45:ASN:O	5:BY:47:LEU:N	2.49	0.45
2:BL:216:LYS:HB3	2:BL:220:HIS:CD2	2.51	0.45
1:BC:157:ARG:HH12	1:BC:318:LEU:CD2	2.30	0.45
5:AQ:8:LEU:HD23	6:AR:22:MET:HE1	1.98	0.45
3:BM:107:PRO:HG2	3:BM:113:GLY:HA2	1.99	0.45
6:BT:33:VAL:HG13	6:BT:34:ILE:N	2.32	0.45
9:AA:101:BCL:HBB3	9:A0:102:BCL:C4B	2.47	0.45
9:A1:102:BCL:C9	6:A2:28:TRP:HB2	2.47	0.45
9:A2:101:BCL:H3A	9:A2:101:BCL:HBA1	1.53	0.45
5:A7:49:ASP:CG	5:A7:50:ASN:N	2.70	0.45
5:A9:46:TRP:CE2	9:A9:102:BCL:H2C	2.52	0.45
5:AD:27:PHE:CZ	5:AF:29:ILE:HD12	2.51	0.45
6:AG:21:PHE:CD1	6:AG:22:MET:HA	2.52	0.45
2:AL:109:TRP:O	2:AL:113:GLU:HG3	2.17	0.45
2:AL:156:PRO:HD3	2:AL:165:TRP:CD1	2.52	0.45
2:AL:184:LEU:O	2:AL:185:ALA:C	2.54	0.45
2:AL:196:LEU:CD2	3:AM:269:ALA:HB1	2.47	0.45
3:AM:122:LEU:O	3:AM:157:TYR:OH	2.29	0.45
3:AM:207:ALA:HB1	9:AM:401:BCL:O1A	2.17	0.45
3:AM:274:VAL:O	3:AM:278:ILE:HG13	2.17	0.45
14:AM:406:CRT:H36	14:AM:406:CRT:H341	1.86	0.45
3:AM:58:THR:HA	3:AM:61:ILE:HG22	1.98	0.45
5:AK:36:HIS:NE2	9:AN:101:BCL:HMD1	2.30	0.45
9:AS:103:BCL:HED1	6:AT:31:LEU:O	2.17	0.45
5:AS:20:VAL:HG12	9:AU:102:BCL:H202	1.97	0.45
9:AT:101:BCL:CHB	9:AU:102:BCL:HMB3	2.47	0.45
5:AU:12:TRP:CZ2	6:AV:21:PHE:CD2	3.05	0.45
6:B0:40:TRP:CZ3	6:B0:44:PRO:HA	2.51	0.45
9:B1:102:BCL:HMD1	6:B2:36:HIS:CE1	2.52	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BA:36:HIS:NE2	9:BB:101:BCL:CMD	2.65	0.45
4:BH:55:VAL:CG1	5:BD:19:ARG:HD3	2.46	0.45
5:BD:21:LEU:O	5:BD:25:VAL:HG23	2.16	0.45
5:BF:27:PHE:CE1	5:BI:29:ILE:CD1	2.91	0.45
2:BL:18:ILE:O	2:BL:18:ILE:HG22	2.16	0.45
2:BL:240:ARG:NH2	3:BM:6:ASN:O	2.50	0.45
9:BL:303:BCL:HHC	9:BL:303:BCL:OBB	2.15	0.45
3:BM:138:GLU:O	3:BM:141:GLY:N	2.46	0.45
14:BP:102:CRT:O2	5:BQ:33:LEU:HA	2.16	0.45
6:BP:18:HIS:O	6:BP:22:MET:HB2	2.17	0.45
5:BS:12:TRP:HZ3	5:BS:20:VAL:HG11	1.82	0.45
5:BY:30:VAL:CA	5:BY:33:LEU:HG	2.44	0.45
5:BY:38:ILE:CD1	5:BY:39:VAL:HG23	2.47	0.45
3:AM:12:GLN:CB	4:AH:145:ALA:HB2	2.45	0.45
5:BA:18:ARG:O	5:BA:22:VAL:HG12	2.16	0.45
5:BD:9:TYR:CG	6:BE:15:LYS:HB2	2.52	0.45
6:AE:9:LEU:HD22	6:AE:13:GLU:CG	2.45	0.45
1:BC:51:LEU:O	1:BC:55:ALA:N	2.50	0.45
1:BC:313:ALA:O	1:BC:314:VAL:CG2	2.64	0.45
5:AU:2:PHE:HD1	5:AU:2:PHE:C	2.20	0.45
6:BG:8:GLY:C	6:BG:9:LEU:HG	2.36	0.45
5:AK:39:VAL:O	5:AK:39:VAL:HG12	2.17	0.45
6:A0:21:PHE:HB2	14:A0:101:CRT:C16	2.47	0.45
6:A2:29:PHE:CE1	9:A2:101:BCL:H11	2.52	0.45
6:A2:16:GLU:C	14:A2:102:CRT:H1M1	2.37	0.45
5:A3:28:GLN:OE1	9:A3:104:BCL:O1A	2.33	0.45
5:A3:19:ARG:HG2	5:A3:20:VAL:H	1.81	0.45
5:A5:21:LEU:CD1	9:A5:102:BCL:C14	2.88	0.45
5:A7:44:LEU:HD21	5:A7:46:TRP:CE3	2.35	0.45
6:A8:22:MET:HG3	6:A8:26:TYR:CE2	2.51	0.45
6:A8:30:GLY:O	6:A8:33:VAL:N	2.50	0.45
1:AC:122:TYR:HA	1:AC:125:VAL:HG21	1.95	0.45
1:AC:263:THR:HB	1:AC:264:PRO:CD	2.43	0.45
1:AC:313:ALA:O	1:AC:314:VAL:CG2	2.65	0.45
14:AG:102:CRT:C2M	5:AI:36:HIS:HB3	2.47	0.45
2:AL:12:VAL:HA	4:AH:111:PHE:HE2	1.82	0.45
4:AH:125:LEU:CA	4:AH:131:PRO:HA	2.28	0.45
4:AH:169:ASP:H	4:AH:183:GLU:HB2	1.81	0.45
4:AH:69:LEU:HB3	4:AH:70:PRO:CD	2.43	0.45
9:AI:102:BCL:HAC2	9:AJ:101:BCL:CBC	2.47	0.45
2:AL:119:LYS:O	2:AL:121:GLY:N	2.50	0.45
3:AM:146:LEU:O	3:AM:148:TRP:N	2.50	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AO:102:BCL:CHA	9:AP:101:BCL:OBD	2.65	0.45
9:AQ:102:BCL:HBB3	9:AQ:102:BCL:HMB1	1.99	0.45
9:AX:101:BCL:CMC	9:AY:102:BCL:HBB1	2.47	0.45
5:AY:30:VAL:HA	5:AY:33:LEU:CG	2.46	0.45
14:B0:101:CRT:H393	14:B0:101:CRT:H36	1.68	0.45
5:B7:9:TYR:CE2	5:B7:10:LYS:HE3	2.52	0.45
1:BC:137:ALA:C	1:BC:139:SER:N	2.70	0.45
1:BC:201:THR:N	1:BC:202:PRO:CD	2.80	0.45
5:BF:9:TYR:CD1	5:BF:10:LYS:N	2.85	0.45
9:BG:101:BCL:HBA1	9:BG:101:BCL:H3A	1.48	0.45
4:BH:91:PRO:HA	4:BH:100:LEU:HD23	1.99	0.45
4:BH:197:ILE:CG2	4:BH:198:GLY:N	2.80	0.45
4:BH:69:LEU:HB3	4:BH:70:PRO:CD	2.33	0.45
5:BK:45:ASN:O	5:BK:47:LEU:N	2.50	0.45
2:BL:125:HIS:CD2	3:BM:224:LEU:HB3	2.52	0.45
2:BL:134:ILE:O	2:BL:138:LEU:HD13	2.17	0.45
2:BL:196:LEU:HD22	3:BM:216:PHE:CB	2.47	0.45
11:BL:304:UQ8:H15	11:BL:304:UQ8:H12A	1.81	0.45
11:BL:304:UQ8:H40	11:BL:304:UQ8:H37A	1.78	0.45
3:BM:170:SER:CB	3:BM:173:LYS:HD3	2.46	0.45
3:BM:8:PHE:HB3	3:BM:42:LYS:O	2.17	0.45
6:BR:22:MET:SD	6:BR:26:TYR:HE1	2.39	0.45
14:BU:103:CRT:C2M	5:BY:37:MET:HA	2.47	0.45
6:BV:28:TRP:O	6:BV:32:VAL:HG12	2.16	0.45
5:BW:18:ARG:HG2	5:BW:18:ARG:HH11	1.82	0.45
5:BW:7:ASN:HD22	5:BW:8:LEU:N	2.15	0.45
5:BY:47:LEU:HD23	5:BY:47:LEU:HA	1.87	0.45
4:BH:135:PRO:HA	4:BH:171:TRP:HA	1.99	0.45
4:BH:169:ASP:N	4:BH:183:GLU:HB2	2.32	0.45
5:BW:55:TYR:O	5:BW:59:GLY:HA3	2.17	0.45
1:AC:53:ILE:C	1:AC:55:ALA:H	2.20	0.45
6:A0:40:TRP:CZ3	6:A0:44:PRO:HA	2.51	0.45
5:A3:14:ILE:CD1	6:A6:17:PHE:CE2	2.98	0.45
5:AA:11:ILE:HD11	5:AD:21:LEU:HD21	1.99	0.45
6:AB:25:MET:HG2	6:AB:29:PHE:CE2	2.52	0.45
1:AC:179:LYS:N	1:AC:180:PRO:HD3	2.32	0.45
1:AC:286:PRO:C	1:AC:288:ASN:H	2.19	0.45
4:AH:5:ILE:HD12	5:AF:47:LEU:CD1	2.46	0.45
6:AG:28:TRP:CD1	6:AG:32:VAL:CG2	3.00	0.45
4:AH:154:MET:O	4:AH:167:VAL:HG13	2.17	0.45
3:AM:233:ARG:NH1	4:AH:236:GLU:HG2	2.32	0.45
4:AH:31:ARG:HH21	4:AH:34:ASP:CB	2.30	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AH:46:THR:HG22	4:AH:47:GLU:H	1.82	0.45
4:AH:54:LYS:O	4:AH:55:VAL:C	2.55	0.45
6:AJ:22:MET:HG3	6:AJ:26:TYR:HE1	1.82	0.45
2:AL:276:LEU:O	2:AL:278:LEU:N	2.48	0.45
2:AL:93:GLY:O	2:AL:96:GLN:HB2	2.17	0.45
3:AM:257:GLY:O	3:AM:258:PHE:O	2.34	0.45
6:AN:16:GLU:HB3	14:AN:102:CRT:H23	1.99	0.45
6:AP:21:PHE:HD1	6:AP:21:PHE:O	1.99	0.45
9:AP:101:BCL:HBB3	9:AQ:102:BCL:CHC	2.46	0.45
5:AS:40:LEU:O	5:AS:45:ASN:ND2	2.50	0.45
5:AY:44:LEU:HD13	6:AZ:43:ARG:NE	2.32	0.45
6:B6:29:PHE:CE1	9:B6:101:BCL:C1	2.90	0.45
5:B9:12:TRP:CA	5:B9:12:TRP:CE3	3.00	0.45
6:BB:20:ILE:HG12	5:B9:7:ASN:CB	2.47	0.45
6:BB:36:HIS:CE1	9:BB:101:BCL:C4D	3.00	0.45
5:BA:13:LEU:O	6:BB:9:LEU:HD13	2.17	0.45
1:BC:21:LEU:C	1:BC:21:LEU:HD23	2.36	0.45
1:BC:235:LEU:O	1:BC:237:MET:N	2.50	0.45
1:BC:269:ALA:O	1:BC:273:ILE:CD1	2.65	0.45
1:BC:276:VAL:O	1:BC:277:ARG:C	2.56	0.45
1:BC:282:ASN:HB3	1:BC:283:TYR:CE1	2.52	0.45
9:BD:102:BCL:CAC	9:BE:101:BCL:CBC	2.95	0.45
6:BE:22:MET:O	6:BE:26:TYR:HD1	2.00	0.45
4:BH:80:ARG:HG3	4:BH:80:ARG:O	2.17	0.45
5:BI:46:TRP:HE1	5:BI:47:LEU:CD1	2.29	0.45
6:BJ:34:ILE:HD13	6:BJ:34:ILE:C	2.37	0.45
2:BL:92:GLY:O	2:BL:93:GLY:C	2.54	0.45
3:BM:130:TRP:HA	3:BM:150:PHE:CE2	2.52	0.45
9:BP:101:BCL:H3A	9:BP:101:BCL:HBA1	1.66	0.45
9:BU:102:BCL:HBD	9:BV:101:BCL:OBD	2.15	0.45
6:BV:21:PHE:CB	14:BV:102:CRT:H11	2.47	0.45
2:AL:22:LEU:HB2	5:A7:19:ARG:HG3	1.99	0.45
5:BO:14:ILE:HA	6:BP:7:THR:N	2.31	0.45
4:AH:242:TYR:O	4:AH:243:TYR:C	2.55	0.45
4:BH:23:PHE:C	4:BH:25:GLY:N	2.68	0.45
9:AA:101:BCL:HHB	14:A0:101:CRT:H372	1.99	0.45
9:A0:102:BCL:H3A	9:A0:102:BCL:HBA1	1.73	0.45
9:A1:102:BCL:HMD1	6:A2:36:HIS:ND1	2.32	0.45
9:A3:103:BCL:H71	6:A4:28:TRP:CD2	2.51	0.45
9:AA:101:BCL:C3D	6:AB:35:ALA:HB1	2.47	0.45
5:AF:12:TRP:HA	5:AF:12:TRP:HE3	1.82	0.45
4:AH:235:GLU:H	4:AH:235:GLU:HG2	1.52	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AI:35:ILE:C	5:AI:37:MET:N	2.70	0.45
2:AL:116:ILE:O	2:AL:117:CYS:C	2.55	0.45
2:AL:231:TYR:CE1	2:AL:233:ILE:N	2.85	0.45
2:AL:184:LEU:CB	2:AL:252:TRP:NE1	2.78	0.45
10:AL:302:BPH:H162	9:AM:401:BCL:HMB3	1.97	0.45
9:AO:102:BCL:HBC2	9:AO:102:BCL:CHD	2.46	0.45
5:AU:13:LEU:HD22	6:AV:9:LEU:C	2.37	0.45
5:AU:36:HIS:CE1	9:AU:102:BCL:NA	2.85	0.45
5:AY:27:PHE:HE1	5:AY:31:LEU:HD22	1.82	0.45
14:AW:102:CRT:H83	6:AZ:20:ILE:CD1	2.47	0.45
6:B0:37:LEU:HD23	9:B0:102:BCL:H202	1.99	0.45
5:B1:10:LYS:NZ	6:B4:20:ILE:HB	2.31	0.45
2:BL:52:TRP:HE1	5:B9:38:ILE:HA	1.75	0.45
9:BB:101:BCL:HMB3	9:BD:102:BCL:CHB	2.47	0.45
9:BD:102:BCL:OBD	6:BE:32:VAL:HG23	2.17	0.45
9:BF:102:BCL:H62	6:BG:28:TRP:CZ2	2.52	0.45
5:BF:36:HIS:O	5:BF:40:LEU:HB2	2.17	0.45
5:BF:51:ILE:HA	5:BF:52:PRO:C	2.37	0.45
4:BH:259:LEU:HD11	5:B5:19:ARG:O	2.17	0.45
4:BH:27:ILE:HD13	4:BH:27:ILE:C	2.37	0.45
4:BH:31:ARG:HA	4:BH:34:ASP:OD2	2.17	0.45
5:BF:38:ILE:CD1	5:BI:37:MET:CE	2.95	0.45
5:BK:18:ARG:HD2	5:BK:19:ARG:N	2.31	0.45
2:BL:86:MET:HE2	2:BL:96:GLN:CD	2.37	0.45
3:BM:214:LEU:O	3:BM:218:MET:HG2	2.17	0.45
2:BL:125:HIS:CB	3:BM:221:ALA:HB1	2.47	0.45
3:BM:34:PRO:CG	3:BM:50:PRO:CD	2.90	0.45
6:BN:21:PHE:C	6:BN:21:PHE:CD1	2.91	0.45
5:BO:31:LEU:HD11	5:BO:35:ILE:HD11	1.98	0.45
5:BS:28:GLN:CB	9:BS:102:BCL:H43	2.47	0.45
6:BV:17:PHE:HB2	14:BV:102:CRT:C4	2.47	0.45
5:BW:32:GLY:CA	9:BX:101:BCL:HED2	2.47	0.45
6:BJ:23:GLN:OE1	6:BJ:24:SER:N	2.50	0.45
4:BH:145:ALA:HB3	4:BH:148:ASP:HB2	1.99	0.45
1:AC:53:ILE:HA	1:AC:319:TYR:HE1	1.82	0.45
1:BC:46:LYS:C	1:BC:48:GLN:N	2.70	0.45
3:BM:98:PRO:HA	3:BM:112:GLY:HA3	2.00	0.45
5:B5:51:ILE:HA	5:B5:52:PRO:C	2.36	0.45
5:BI:22:VAL:HA	5:BI:25:VAL:HG23	1.99	0.45
6:AT:40:TRP:HZ3	6:AT:44:PRO:CA	2.30	0.45
5:AW:16:ASP:N	5:AW:16:ASP:OD1	2.50	0.45
4:AH:146:GLU:CD	4:AH:146:GLU:H	2.19	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:A6:101:BCL:HBA1	9:A6:101:BCL:H3A	1.79	0.44
6:A6:24:SER:O	6:A6:27:ALA:HB3	2.18	0.44
6:A8:22:MET:HG3	6:A8:26:TYR:HE2	1.81	0.44
5:AA:36:HIS:NE2	9:AB:101:BCL:CMD	2.78	0.44
14:AB:102:CRT:H33	14:AB:102:CRT:H5	1.63	0.44
1:AC:236:MET:N	1:AC:239:ILE:HD12	2.32	0.44
1:AC:166:TRP:NE1	1:AC:305:VAL:C	2.59	0.44
5:AD:50:ASN:CG	5:AD:51:ILE:N	2.68	0.44
5:AD:31:LEU:CG	9:AE:101:BCL:HED3	2.47	0.44
3:AM:242:GLY:CA	4:AH:117:PRO:HG3	2.48	0.44
5:AF:8:LEU:HD23	6:AJ:20:ILE:CD1	2.44	0.44
2:AL:139:VAL:CG2	2:AL:258:LEU:HD13	2.47	0.44
2:AL:238:ILE:C	2:AL:240:ARG:H	2.19	0.44
2:AL:260:SER:HG	2:AL:268:TRP:HE1	1.65	0.44
2:AL:38:VAL:O	2:AL:39:GLY:C	2.56	0.44
3:AM:68:ILE:HG12	10:AM:403:BPH:H141	1.98	0.44
6:AP:24:SER:O	6:AP:27:ALA:CB	2.65	0.44
9:AQ:102:BCL:HMB1	9:AQ:102:BCL:HBB2	1.99	0.44
5:AQ:17:PRO:O	5:AQ:20:VAL:HG22	2.16	0.44
5:B3:39:VAL:HA	5:B5:47:LEU:HD11	1.99	0.44
5:B7:17:PRO:O	5:B7:21:LEU:CG	2.62	0.44
5:BA:39:VAL:C	5:BA:41:SER:H	2.20	0.44
5:BA:46:TRP:HB3	6:BB:43:ARG:NH2	2.32	0.44
1:BC:122:TYR:HA	1:BC:125:VAL:HG21	1.95	0.44
1:BC:35:TYR:CE1	1:BC:36:ARG:HG2	2.51	0.44
14:BA:102:CRT:C35	5:BD:31:LEU:HD21	2.47	0.44
6:BG:21:PHE:O	6:BG:24:SER:OG	2.34	0.44
4:BH:184:VAL:CG2	4:BH:195:LEU:HB2	2.47	0.44
5:BK:12:TRP:CE3	5:BK:12:TRP:HA	2.52	0.44
1:BC:253:THR:HG21	2:BL:168:ASN:HA	1.98	0.44
2:BL:243:LEU:O	2:BL:247:LEU:N	2.43	0.44
9:BL:301:BCL:OBB	9:BL:301:BCL:HHC	2.16	0.44
3:BM:163:ILE:HG23	3:BM:285:LEU:CD1	2.47	0.44
6:BN:32:VAL:HG21	9:BN:101:BCL:CGA	2.47	0.44
6:BP:20:ILE:CG2	6:BP:21:PHE:N	2.80	0.44
9:BQ:103:BCL:HBC2	9:BQ:104:BCL:HMD2	1.98	0.44
6:BR:42:TYR:CE2	6:BR:43:ARG:HG3	2.52	0.44
5:BS:31:LEU:O	5:BS:35:ILE:HG12	2.17	0.44
14:BU:103:CRT:H2M1	5:BY:37:MET:CB	2.47	0.44
5:BU:13:LEU:CD2	6:BV:9:LEU:HB2	2.46	0.44
5:BW:4:MET:SD	6:BZ:27:ALA:HB2	2.57	0.44
1:AC:148:THR:OG1	1:AC:322:GLN:HG2	2.16	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:325:LYS:HD3	1:AC:325:LYS:O	2.18	0.44
5:BU:44:LEU:C	5:BU:44:LEU:HD12	2.37	0.44
1:AC:65:ALA:HB2	1:AC:89:GLU:OE1	2.17	0.44
6:BG:8:GLY:O	6:BG:9:LEU:HG	2.17	0.44
5:A1:46:TRP:CH2	9:A1:102:BCL:H2C	2.52	0.44
5:A3:36:HIS:O	5:A3:40:LEU:HD12	2.16	0.44
14:A5:103:CRT:H2M3	5:A9:36:HIS:CB	2.47	0.44
6:A6:37:LEU:O	6:A6:37:LEU:HD23	2.17	0.44
5:A7:30:VAL:HG13	5:A7:31:LEU:N	2.31	0.44
14:AB:102:CRT:H132	5:A9:11:ILE:HD11	1.98	0.44
5:A9:31:LEU:HD23	9:A0:102:BCL:HED3	1.99	0.44
5:AA:39:VAL:C	5:AA:41:SER:N	2.70	0.44
5:AD:47:LEU:HD11	9:AD:102:BCL:HBB1	1.98	0.44
5:AF:28:GLN:CB	9:AF:102:BCL:H11	2.36	0.44
4:AH:172:VAL:HG23	4:AH:173:ASP:H	1.78	0.44
5:AI:39:VAL:CG1	5:AI:46:TRP:HZ3	2.29	0.44
9:AJ:101:BCL:CMB	9:AK:102:BCL:C1B	2.96	0.44
3:AM:179:ILE:CG1	3:AM:180:PHE:H	2.22	0.44
3:AM:176:PRO:CD	3:AM:185:TRP:CD1	3.00	0.44
3:AM:242:GLY:HA2	4:AH:117:PRO:HG3	2.00	0.44
3:AM:276:THR:O	3:AM:278:ILE:N	2.50	0.44
9:AK:102:BCL:C4D	9:AN:101:BCL:HMD2	2.44	0.44
9:AK:102:BCL:CBD	9:AN:101:BCL:OBD	2.65	0.44
9:AT:101:BCL:HBB3	9:AT:101:BCL:HMB1	1.98	0.44
5:AU:43:ASP:HB2	5:AW:47:LEU:CB	2.45	0.44
5:AW:2:PHE:N	5:AW:2:PHE:CD1	2.85	0.44
5:AW:49:ASP:O	5:AY:60:LYS:CB	2.65	0.44
5:AW:4:MET:O	5:AW:7:ASN:ND2	2.50	0.44
6:BE:32:VAL:HG21	9:BE:101:BCL:CBA	2.42	0.44
5:BF:30:VAL:HG13	5:BF:31:LEU:H	1.81	0.44
5:BF:12:TRP:HZ2	6:BG:21:PHE:CD2	2.36	0.44
4:BH:182:LEU:HD13	4:BH:195:LEU:CD2	2.44	0.44
3:BM:253:ARG:HH21	4:BH:41:LEU:HD11	1.82	0.44
6:BJ:8:GLY:O	6:BJ:9:LEU:HD23	2.18	0.44
2:BL:122:ILE:HG13	2:BL:123:GLY:O	2.17	0.44
2:BL:138:LEU:N	2:BL:138:LEU:CD1	2.81	0.44
9:BL:303:BCL:H3A	9:BL:303:BCL:HBA1	1.73	0.44
2:BL:93:GLY:O	2:BL:94:LEU:C	2.55	0.44
3:BM:200:PRO:C	3:BM:203:MET:HG2	2.37	0.44
9:BP:101:BCL:HMA1	9:BQ:103:BCL:CMA	2.34	0.44
5:BS:8:LEU:O	5:BS:11:ILE:HG13	2.17	0.44
5:BO:18:ARG:HH11	5:BO:18:ARG:CB	2.29	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:170:PRO:CG	1:AC:171:GLY:H	2.28	0.44
1:AC:112:VAL:HG12	1:AC:113:PRO:CD	2.47	0.44
1:BC:70:PRO:HG2	1:BC:71:LYS:N	2.33	0.44
2:BL:23:PHE:HA	2:BL:25:PHE:CE2	2.52	0.44
6:AX:7:THR:OG1	6:AX:8:GLY:N	2.48	0.44
6:A2:29:PHE:HD1	6:A2:29:PHE:H	1.58	0.44
14:A2:102:CRT:H243	9:A3:103:BCL:H18	2.00	0.44
5:A3:28:GLN:NE2	5:A3:28:GLN:HA	2.32	0.44
5:A5:44:LEU:HD12	5:A5:46:TRP:HE3	1.82	0.44
9:A7:103:BCL:C2D	9:A8:101:BCL:C2D	2.95	0.44
9:A7:103:BCL:HMB1	9:A7:103:BCL:HBB3	1.98	0.44
5:A9:12:TRP:CE3	5:A9:12:TRP:CA	3.00	0.44
5:AA:27:PHE:O	5:AA:30:VAL:HG12	2.17	0.44
5:AA:8:LEU:HB3	6:AE:20:ILE:HG23	1.98	0.44
1:AC:286:PRO:O	1:AC:288:ASN:N	2.50	0.44
1:AC:36:ARG:NH1	2:AL:91:GLU:O	2.50	0.44
9:AF:102:BCL:HBB3	9:AF:102:BCL:HMB1	1.99	0.44
4:AH:141:GLU:CD	4:AH:141:GLU:H	2.19	0.44
9:AI:102:BCL:HBB3	9:AI:102:BCL:HMB1	1.99	0.44
2:AL:184:LEU:HB2	2:AL:252:TRP:NE1	2.33	0.44
2:AL:206:VAL:HG23	2:AL:207:THR:N	2.31	0.44
2:AL:206:VAL:C	2:AL:209:PRO:HD3	2.37	0.44
2:AL:47:VAL:HG23	10:AL:302:BPH:H7C2	1.98	0.44
3:AM:236:ASP:O	3:AM:239:THR:N	2.50	0.44
5:AS:33:LEU:C	15:AS:101:PEF:H453	2.37	0.44
6:AT:29:PHE:CD1	6:AT:29:PHE:N	2.80	0.44
6:AV:46:LEU:HD13	6:AX:42:TYR:CZ	2.53	0.44
5:AW:38:ILE:HG23	5:AW:39:VAL:N	2.32	0.44
5:AU:45:ASN:H	5:AW:56:GLN:NE2	2.13	0.44
5:AY:8:LEU:CD1	6:AZ:22:MET:CE	2.94	0.44
6:B0:21:PHE:CG	6:B0:22:MET:N	2.84	0.44
5:B1:12:TRP:CZ3	5:B1:20:VAL:HG21	2.42	0.44
5:B3:11:ILE:HA	14:B7:102:CRT:C8	2.41	0.44
6:B6:24:SER:O	6:B6:27:ALA:HB3	2.18	0.44
6:B6:37:LEU:O	6:B6:37:LEU:HD23	2.17	0.44
5:B9:48:ASP:CG	5:B9:48:ASP:O	2.56	0.44
5:BA:39:VAL:HG11	9:BB:101:BCL:H3C	1.98	0.44
9:BB:101:BCL:CHC	9:BD:102:BCL:CBB	2.91	0.44
6:BB:30:GLY:O	6:BB:34:ILE:HG22	2.17	0.44
1:BC:176:SER:OG	5:BS:42:THR:HG23	2.18	0.44
1:BC:276:VAL:CG2	1:BC:280:ASN:ND2	2.80	0.44
9:BE:101:BCL:C2B	9:BF:102:BCL:C2B	2.95	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:BG:46:LEU:O	5:BI:51:ILE:O	2.35	0.44
4:BH:200:SER:HA	4:BH:211:VAL:HG22	1.98	0.44
2:BL:261:GLY:O	2:BL:263:PHE:N	2.50	0.44
2:BL:240:ARG:NH2	3:BM:7:ILE:O	2.49	0.44
9:BN:101:BCL:HMB3	9:BO:102:BCL:C1B	2.47	0.44
5:BS:12:TRP:HE1	6:BT:18:HIS:CB	2.29	0.44
5:BU:18:ARG:O	5:BU:22:VAL:CG1	2.50	0.44
5:BW:36:HIS:NE2	9:BX:101:BCL:HMD1	2.32	0.44
5:BY:50:ASN:HD21	6:BZ:43:ARG:CZ	2.29	0.44
4:BH:227:ASN:ND2	4:BH:228:PRO:CD	2.66	0.44
6:BT:13:GLU:H	6:BT:13:GLU:CD	2.20	0.44
5:BS:49:ASP:CG	5:BS:50:ASN:OD1	2.55	0.44
5:BA:17:PRO:HG2	5:BA:18:ARG:HD2	1.99	0.44
1:BC:46:LYS:O	1:BC:48:GLN:N	2.50	0.44
1:AC:243:LEU:N	1:AC:243:LEU:CD1	2.80	0.44
5:A5:33:LEU:HD12	5:A5:33:LEU:C	2.37	0.44
1:BC:29:GLY:HA3	1:BC:44:TYR:CD2	2.53	0.44
6:AX:10:THR:HG22	6:AX:11:ASP:N	2.32	0.44
4:BH:108:LEU:C	4:BH:110:GLY:H	2.20	0.44
5:AQ:12:TRP:HA	5:AQ:12:TRP:HE3	1.83	0.44
6:A2:42:TYR:CE1	6:A2:43:ARG:HG3	2.52	0.44
6:A4:34:ILE:CG2	6:A4:35:ALA:N	2.80	0.44
5:A5:16:ASP:HB2	5:A5:19:ARG:HG3	1.95	0.44
5:A5:27:PHE:HA	5:A5:30:VAL:HG12	1.99	0.44
5:A5:53:VAL:HA	5:A5:56:GLN:HE21	1.82	0.44
9:A7:103:BCL:O2D	9:A7:103:BCL:HAA1	2.17	0.44
5:AA:11:ILE:HD13	14:AA:102:CRT:C9	2.47	0.44
1:AC:252:ASN:O	1:AC:254:ARG:N	2.50	0.44
4:AH:55:VAL:HG12	5:AD:19:ARG:HD3	2.00	0.44
14:AB:102:CRT:H2M1	5:AD:33:LEU:O	2.18	0.44
5:AI:35:ILE:HA	5:AI:38:ILE:CG2	2.47	0.44
6:AJ:17:PHE:CE1	14:AJ:102:CRT:H6	2.52	0.44
2:AL:131:SER:O	2:AL:134:ILE:N	2.51	0.44
2:AL:139:VAL:HG23	2:AL:143:VAL:CB	2.44	0.44
3:AM:281:GLY:O	3:AM:285:LEU:HB2	2.16	0.44
3:AM:284:ILE:HD11	9:AM:402:BCL:CAD	2.48	0.44
5:AU:49:ASP:OD2	6:AV:43:ARG:NH2	2.50	0.44
14:AW:102:CRT:H392	5:AY:35:ILE:CD1	2.48	0.44
9:AX:101:BCL:H43	14:AX:102:CRT:H292	1.99	0.44
5:AY:9:TYR:CD1	5:AY:10:LYS:N	2.85	0.44
6:B4:21:PHE:CD1	6:B4:22:MET:N	2.86	0.44
6:B4:34:ILE:CG2	6:B4:35:ALA:N	2.80	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:BB:102:CRT:C8	5:B9:11:ILE:HG12	2.48	0.44
1:BC:132:GLU:O	1:BC:136:ALA:CB	2.66	0.44
5:BD:29:ILE:HG23	5:BD:30:VAL:N	2.33	0.44
9:BF:102:BCL:HMB1	9:BF:102:BCL:CBB	2.47	0.44
4:BH:139:ALA:HA	4:BH:141:GLU:OE1	2.17	0.44
5:BK:12:TRP:HE3	5:BK:12:TRP:HA	1.82	0.44
2:BL:148:MET:O	2:BL:150:ALA:N	2.50	0.44
2:BL:160:LEU:CA	2:BL:163:LEU:HD13	2.46	0.44
2:BL:180:PRO:HA	2:BL:183:MET:SD	2.58	0.44
2:BL:195:ALA:HB3	3:BM:216:PHE:CE2	2.49	0.44
9:BM:401:BCL:HBB2	9:BM:401:BCL:HMB1	1.99	0.44
5:BO:29:ILE:CG2	5:BO:30:VAL:N	2.80	0.44
5:BQ:43:ASP:OD1	5:BQ:44:LEU:N	2.50	0.44
5:BQ:49:ASP:OD1	5:BQ:50:ASN:N	2.43	0.44
6:BX:28:TRP:O	6:BX:31:LEU:N	2.50	0.44
3:BM:2:PRO:HB3	4:BH:201:ARG:NH1	2.29	0.44
5:BQ:17:PRO:HB3	6:BR:17:PHE:CE2	2.53	0.44
6:AB:33:VAL:HG13	6:AB:34:ILE:N	2.31	0.44
4:BH:107:MET:HG3	4:BH:242:TYR:HE1	1.82	0.44
6:BB:11:ASP:HA	6:BB:14:ALA:HB3	1.98	0.44
5:AU:51:ILE:HA	5:AU:53:VAL:N	2.31	0.44
9:AA:101:BCL:HBB3	9:A0:102:BCL:C1C	2.47	0.44
9:A3:103:BCL:H2	6:A4:28:TRP:CZ2	2.52	0.44
9:A3:103:BCL:HBC2	9:A3:104:BCL:CMD	2.48	0.44
5:A3:56:GLN:H	5:A3:56:GLN:CD	2.20	0.44
6:A6:17:PHE:CD2	14:A7:102:CRT:H42	2.53	0.44
5:A7:46:TRP:CH2	9:A7:103:BCL:H2C	2.52	0.44
14:AA:102:CRT:H83	6:AE:20:ILE:CD1	2.34	0.44
6:AB:28:TRP:O	6:AB:31:LEU:N	2.46	0.44
6:AB:43:ARG:HD3	5:AD:55:TYR:CE1	2.53	0.44
6:AG:40:TRP:CZ3	6:AG:46:LEU:HG	2.52	0.44
9:AI:102:BCL:HAC2	9:AJ:101:BCL:HAC1	1.99	0.44
6:AJ:15:LYS:O	6:AJ:18:HIS:HB3	2.18	0.44
9:AJ:101:BCL:HMB3	9:AK:102:BCL:C4A	2.46	0.44
3:AM:149:ALA:O	3:AM:152:ALA:N	2.51	0.44
3:AM:151:ALA:O	3:AM:154:ILE:N	2.50	0.44
3:AM:210:TYR:O	3:AM:213:ALA:N	2.50	0.44
2:AL:4:LEU:CD1	3:AM:250:LEU:HD12	2.40	0.44
3:AM:256:MET:SD	13:AM:405:MQ8:H151	2.57	0.44
3:AM:265:ILE:C	3:AM:267:ARG:N	2.71	0.44
3:AM:314:VAL:HG12	3:AM:315:ASN:N	2.33	0.44
6:AR:28:TRP:CE3	6:AR:28:TRP:HA	2.53	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AT:22:MET:O	6:AT:25:MET:N	2.49	0.44
6:AT:45:TRP:HD1	6:AT:46:LEU:N	2.15	0.44
5:AU:20:VAL:HG11	9:AW:101:BCL:C20	2.48	0.44
14:B0:101:CRT:H241	14:B0:101:CRT:H26	1.81	0.44
6:B2:17:PHE:CD1	14:B2:102:CRT:C9	2.84	0.44
5:B3:24:ILE:O	5:B3:27:PHE:N	2.50	0.44
5:B5:49:ASP:OD1	5:B5:50:ASN:N	2.48	0.44
5:B5:36:HIS:ND1	9:B6:101:BCL:HMD1	2.29	0.44
1:BC:135:ARG:HB3	1:BC:332:LYS:N	2.32	0.44
1:BC:271:TYR:O	1:BC:274:ARG:HB2	2.17	0.44
1:BC:126:VAL:HG12	1:BC:287:LEU:HB3	1.99	0.44
5:BD:17:PRO:O	5:BD:21:LEU:CB	2.66	0.44
5:BD:30:VAL:HG13	5:BD:31:LEU:N	2.32	0.44
2:BL:165:TRP:HE3	2:BL:166:VAL:HG23	1.83	0.44
2:BL:268:TRP:O	2:BL:269:PRO:C	2.56	0.44
2:BL:166:VAL:HG13	9:BL:301:BCL:HMD2	1.98	0.44
1:BC:36:ARG:NH1	2:BL:91:GLU:C	2.71	0.44
3:BM:176:PRO:HG2	3:BM:182:HIS:HA	1.99	0.44
3:BM:215:LEU:O	3:BM:218:MET:N	2.41	0.44
5:BO:38:ILE:HG13	5:BO:39:VAL:HG23	2.00	0.44
9:BP:101:BCL:H2A	9:BP:101:BCL:O1D	2.17	0.44
5:BQ:44:LEU:CD1	5:BQ:46:TRP:HE3	2.23	0.44
5:BQ:2:PHE:O	5:BQ:5:ASN:HB3	2.16	0.44
9:BT:101:BCL:HMA1	9:BU:102:BCL:HHB	1.99	0.44
5:BW:45:ASN:O	5:BW:49:ASP:CB	2.65	0.44
6:BX:29:PHE:HD1	6:BX:29:PHE:N	2.15	0.44
6:A4:21:PHE:CD1	6:A4:22:MET:N	2.86	0.44
6:B4:41:LEU:C	6:B4:41:LEU:HD23	2.38	0.44
1:AC:70:PRO:HB2	1:AC:71:LYS:HD2	2.00	0.44
1:AC:211:ARG:HD3	3:AM:317:TYR:CZ	2.51	0.44
5:A7:13:LEU:O	6:A8:7:THR:HB	2.17	0.44
5:BK:51:ILE:HA	5:BK:52:PRO:O	2.17	0.44
6:BJ:41:LEU:C	6:BJ:41:LEU:HD23	2.38	0.44
5:A1:12:TRP:CA	5:A1:12:TRP:CE3	3.01	0.44
5:A1:51:ILE:HB	5:A1:52:PRO:CA	2.46	0.44
5:A5:25:VAL:CG1	9:A5:102:BCL:H192	2.36	0.44
5:AA:16:ASP:CG	5:AA:19:ARG:HB2	2.37	0.44
1:AC:297:GLY:H	1:AC:301:ASP:H	1.66	0.44
9:AD:102:BCL:HMB1	9:AD:102:BCL:HBB3	1.98	0.44
9:AD:102:BCL:HAC2	9:AE:101:BCL:CBC	2.48	0.44
4:AH:11:ALA:O	4:AH:14:ILE:HG13	2.18	0.44
5:AI:31:LEU:HB3	9:AJ:101:BCL:HED2	1.99	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:192:ASN:N	2:AL:245:LEU:HD13	2.33	0.44
2:AL:252:TRP:O	2:AL:254:ALA:N	2.50	0.44
9:AL:301:BCL:HMB1	9:AL:301:BCL:HBB3	1.98	0.44
3:AM:222:THR:OG1	3:AM:252:TRP:HZ2	1.99	0.44
3:AM:63:PHE:CE1	5:AQ:30:VAL:HA	2.52	0.44
5:AO:31:LEU:HD11	14:AP:102:CRT:H35	1.99	0.44
5:AO:43:ASP:HA	5:AQ:48:ASP:CB	2.35	0.44
5:AO:43:ASP:OD2	5:AQ:47:LEU:HD22	2.17	0.44
9:AO:102:BCL:CBC	9:AP:101:BCL:HHD	2.41	0.44
5:AO:11:ILE:HD13	14:AR:102:CRT:H132	1.98	0.44
5:AQ:35:ILE:HD11	14:AR:102:CRT:H372	2.00	0.44
5:AU:14:ILE:HD11	14:AX:102:CRT:H23	2.00	0.44
6:AZ:20:ILE:HG23	6:AZ:21:PHE:N	2.32	0.44
6:B0:29:PHE:CE1	9:B0:102:BCL:H72	2.53	0.44
5:B1:11:ILE:HG12	14:B1:103:CRT:H81	1.98	0.44
6:B2:10:THR:HG23	6:B2:11:ASP:N	2.32	0.44
5:B3:29:ILE:HB	9:B3:102:BCL:H42	2.00	0.44
14:B5:103:CRT:C7	6:B8:17:PHE:HZ	2.30	0.44
6:B8:30:GLY:O	6:B8:33:VAL:N	2.50	0.44
1:BC:141:TRP:CH2	1:BC:275:HIS:HA	2.52	0.44
1:BC:226:LEU:HD11	3:BM:189:PHE:HA	2.00	0.44
1:BC:227:LYS:O	1:BC:230:GLU:HB3	2.17	0.44
1:BC:258:ASP:O	1:BC:261:GLN:HB2	2.17	0.44
5:BF:9:TYR:CD1	6:BG:15:LYS:HG2	2.52	0.44
4:BH:69:LEU:HD13	4:BH:76:VAL:HG23	1.99	0.44
1:BC:21:LEU:HD21	2:BL:263:PHE:CE1	2.53	0.44
2:BL:48:LEU:HA	2:BL:51:VAL:CG2	2.46	0.44
2:BL:56:ILE:O	2:BL:66:GLN:HG3	2.17	0.44
2:BL:6:PHE:CD1	3:BM:246:GLU:HG3	2.53	0.44
3:BM:200:PRO:CA	3:BM:203:MET:HG2	2.45	0.44
3:BM:261:THR:H	3:BM:264:SER:HG	1.65	0.44
3:BM:68:ILE:HG21	10:BM:403:BPH:H141	1.99	0.44
9:BK:102:BCL:H92	14:BN:102:CRT:C18	2.47	0.44
6:BP:24:SER:O	6:BP:27:ALA:CB	2.66	0.44
5:BQ:19:ARG:NH1	15:BQ:101:PEF:N	2.66	0.44
14:BO:103:CRT:H27	5:BQ:28:GLN:NE2	2.32	0.44
6:BX:32:VAL:O	6:BX:36:HIS:HB2	2.18	0.44
5:BY:13:LEU:HA	5:BY:13:LEU:HD23	1.85	0.44
9:BZ:101:BCL:C4	9:B1:102:BCL:HMA2	2.48	0.44
5:BF:8:LEU:HD21	6:BJ:24:SER:HG	1.76	0.44
2:BL:16:THR:HG21	2:BL:20:GLY:C	2.38	0.44
9:AA:101:BCL:C2B	9:A0:102:BCL:C2B	2.95	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AY:15:LEU:CG	5:A1:21:LEU:HD21	2.46	0.44
9:A2:101:BCL:C1B	9:A3:103:BCL:CMB	2.96	0.44
5:A5:30:VAL:HG13	5:A5:31:LEU:N	2.32	0.44
5:A7:7:ASN:HA	5:A7:10:LYS:HZ2	1.81	0.44
1:AC:293:ALA:O	1:AC:296:LYS:N	2.32	0.44
5:AI:44:LEU:CD1	5:AI:46:TRP:HE3	2.31	0.44
6:AJ:40:TRP:HA	6:AJ:44:PRO:HA	2.00	0.44
9:AK:102:BCL:H193	9:AK:102:BCL:H111	1.99	0.44
2:AL:264:TRP:CZ3	2:AL:271:TRP:HD1	2.35	0.44
5:AU:32:GLY:HA3	9:AU:102:BCL:O1A	2.18	0.44
6:AV:45:TRP:CZ3	9:AV:102:BCL:HAC2	2.52	0.44
6:AV:10:THR:CG2	6:AV:11:ASP:N	2.80	0.44
5:AW:35:ILE:HA	5:AW:38:ILE:CG2	2.47	0.44
14:AX:102:CRT:H20	14:AX:102:CRT:H181	1.80	0.44
6:AZ:45:TRP:CE3	9:AZ:101:BCL:CAC	2.88	0.44
6:B0:45:TRP:O	6:B0:46:LEU:CB	2.62	0.44
5:B5:18:ARG:HB2	5:B5:19:ARG:CZ	2.48	0.44
5:B7:42:THR:CB	5:B9:48:ASP:CG	2.84	0.44
5:BA:31:LEU:HD11	14:BB:102:CRT:H35	2.00	0.44
5:BA:12:TRP:CD2	6:BB:17:PHE:HE2	2.36	0.44
1:BC:123:THR:OG1	1:BC:124:LYS:N	2.50	0.44
1:BC:226:LEU:H	3:BM:173:LYS:CE	2.31	0.44
4:BH:259:LEU:CD2	5:B5:19:ARG:HB3	2.48	0.44
5:BI:30:VAL:HG13	5:BI:31:LEU:N	2.31	0.44
9:BJ:101:BCL:HBA1	9:BJ:101:BCL:H3A	1.60	0.44
6:BJ:28:TRP:NE1	6:BJ:32:VAL:CG2	2.80	0.44
2:BL:196:LEU:HD13	3:BM:216:PHE:CB	2.36	0.44
3:BM:229:PHE:CE2	3:BM:247:ARG:NE	2.86	0.44
2:BL:204:LEU:HD13	3:BM:267:ARG:HG3	1.99	0.44
3:BM:279:THR:HA	3:BM:282:ILE:HG13	2.00	0.44
3:BM:73:PHE:O	3:BM:76:LEU:N	2.47	0.44
3:BM:84:PHE:HD1	3:BM:84:PHE:H	1.66	0.44
5:BO:9:TYR:HA	6:BP:18:HIS:CD2	2.51	0.44
6:BP:40:TRP:HZ3	6:BP:45:TRP:H	1.65	0.44
9:BW:102:BCL:CBD	9:BX:101:BCL:OBD	2.66	0.44
2:AL:16:THR:HG21	2:AL:20:GLY:C	2.38	0.44
2:AL:23:PHE:CE1	5:A9:22:VAL:HG21	2.53	0.44
4:AH:144:ILE:HG13	4:AH:150:ASP:OD2	2.16	0.44
5:BA:21:LEU:O	5:BA:25:VAL:HG23	2.18	0.44
5:BD:9:TYR:HE1	6:BE:11:ASP:CB	2.30	0.44
6:BV:10:THR:CG2	6:BV:11:ASP:H	2.27	0.44
6:BT:31:LEU:HA	6:BT:34:ILE:CD1	2.48	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:BM:53:LEU:HD11	3:BM:58:THR:HA	2.00	0.44
1:BC:112:VAL:CG1	1:BC:113:PRO:HD2	2.46	0.44
5:A9:49:ASP:OD2	5:A9:50:ASN:OD1	2.35	0.44
5:A1:26:ALA:O	5:A1:29:ILE:CG2	2.66	0.44
5:A3:40:LEU:HD21	5:A3:46:TRP:CZ2	2.52	0.44
14:A7:102:CRT:C24	14:A7:102:CRT:C21	2.95	0.44
1:AC:212:ILE:HG21	1:AC:229:ALA:HB2	2.00	0.44
5:AF:31:LEU:HD21	14:AG:102:CRT:H32	1.99	0.44
3:AM:271:TRP:NE1	4:AH:26:LEU:HD11	2.33	0.44
5:AI:27:PHE:CE1	5:AI:31:LEU:HD22	2.53	0.44
5:AI:4:MET:SD	6:AN:23:GLN:OE1	2.76	0.44
2:AL:156:PRO:HG2	2:AL:162:HIS:HA	2.00	0.44
2:AL:186:ILE:HD12	17:AL:403:HOH:O	2.17	0.44
2:AL:44:LEU:O	2:AL:48:LEU:HB2	2.18	0.44
2:AL:95:TRP:HE3	2:AL:96:GLN:N	2.16	0.44
2:AL:93:GLY:O	2:AL:96:GLN:N	2.50	0.44
3:AM:131:VAL:O	3:AM:133:THR:N	2.50	0.44
3:AM:243:THR:HA	3:AM:246:GLU:HB2	2.00	0.44
2:AL:281:TRP:CG	3:AM:88:LYS:HB2	2.53	0.44
5:AO:34:LEU:O	5:AO:38:ILE:HG23	2.18	0.44
5:AO:4:MET:HG3	6:AR:23:GLN:HB3	2.00	0.44
9:AQ:102:BCL:ND	9:AR:101:BCL:CMD	2.80	0.44
5:AU:44:LEU:HD12	5:AU:44:LEU:C	2.38	0.44
9:AW:101:BCL:HBB3	9:AW:101:BCL:HMB1	1.98	0.44
5:AY:27:PHE:C	5:AY:27:PHE:CD1	2.91	0.44
6:AX:46:LEU:HB3	6:AZ:42:TYR:OH	2.17	0.44
9:BZ:101:BCL:H41	9:B1:102:BCL:HMA2	1.99	0.44
5:B3:29:ILE:HG23	5:B3:30:VAL:N	2.33	0.44
1:BC:40:MET:HG2	1:BC:251:HIS:O	2.18	0.44
5:BF:44:LEU:HD12	5:BF:46:TRP:HE3	1.82	0.44
2:BL:3:MET:O	4:BH:41:LEU:HG	2.17	0.44
5:BI:45:ASN:OD1	5:BI:48:ASP:OD1	2.35	0.44
2:BL:117:CYS:SG	2:BL:122:ILE:HD11	2.58	0.44
2:BL:193:CYS:SG	2:BL:193:CYS:O	2.76	0.44
3:BM:132:ARG:CG	3:BM:132:ARG:HH11	2.30	0.44
3:BM:241:ARG:HB2	4:BH:37:GLU:OE1	2.18	0.44
2:BL:281:TRP:CG	3:BM:88:LYS:HB2	2.53	0.44
5:BO:25:VAL:HG12	9:BO:102:BCL:C4	2.45	0.44
6:BP:32:VAL:O	6:BP:35:ALA:HB3	2.18	0.44
9:BQ:104:BCL:H2C	6:BR:45:TRP:CD2	2.53	0.44
5:BS:5:ASN:HA	5:BS:8:LEU:CG	2.46	0.44
14:BU:103:CRT:H181	14:BU:103:CRT:H20	1.80	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BU:19:ARG:HB2	5:BU:19:ARG:HH21	1.82	0.44
9:BX:101:BCL:HMA1	9:BY:102:BCL:HMA1	2.00	0.44
2:AL:22:LEU:HD23	2:AL:23:PHE:CZ	2.53	0.44
3:AM:232:ASP:OD2	4:AH:180:ARG:NH2	2.50	0.44
1:BC:316:LYS:HB3	1:BC:320:GLY:H	1.82	0.44
4:AH:189:ASN:O	4:AH:191:LYS:HG3	2.18	0.44
5:AD:14:ILE:CD1	5:AD:14:ILE:N	2.81	0.44
5:B5:38:ILE:O	5:B5:41:SER:HB3	2.18	0.44
6:A0:27:ALA:O	6:A0:31:LEU:HG	2.18	0.44
9:A3:104:BCL:H3A	9:A3:104:BCL:HBA1	1.64	0.44
6:A8:42:TYR:CG	6:A8:43:ARG:N	2.85	0.44
9:AA:101:BCL:CBC	9:AB:101:BCL:HHD	2.48	0.44
1:AC:225:SER:O	1:AC:226:LEU:C	2.55	0.44
1:AC:302:PRO:O	1:AC:302:PRO:CG	2.65	0.44
5:AD:51:ILE:HA	5:AD:53:VAL:N	2.33	0.44
6:AG:22:MET:HG3	6:AG:26:TYR:CZ	2.53	0.44
9:AI:102:BCL:H62	6:AJ:28:TRP:CH2	2.52	0.44
9:AI:102:BCL:H62	6:AJ:28:TRP:CZ3	2.53	0.44
6:AJ:34:ILE:O	6:AJ:38:LEU:HB2	2.17	0.44
2:AL:119:LYS:HD3	3:AM:254:TRP:HZ3	1.83	0.44
2:AL:196:LEU:HD13	2:AL:197:SER:N	2.33	0.44
2:AL:253:SER:HB2	9:AL:301:BCL:CAA	2.48	0.44
3:AM:132:ARG:CG	3:AM:132:ARG:HH11	2.31	0.44
3:AM:163:ILE:HG23	3:AM:285:LEU:CD1	2.48	0.44
5:AO:50:ASN:O	5:AO:51:ILE:C	2.56	0.44
6:AP:39:ALA:O	6:AP:42:TYR:N	2.49	0.44
9:AR:101:BCL:HBB3	9:AR:101:BCL:HMB1	1.99	0.44
14:AS:104:CRT:H10	14:AS:104:CRT:H81	1.81	0.44
5:AS:34:LEU:O	5:AS:38:ILE:HG22	2.17	0.44
9:AW:101:BCL:HBC2	9:AX:101:BCL:HMD2	2.00	0.44
9:AW:101:BCL:HMB1	9:AW:101:BCL:HBB2	2.00	0.44
6:AX:22:MET:O	6:AX:26:TYR:CD2	2.71	0.44
5:B9:12:TRP:CD1	6:B0:18:HIS:HB2	2.53	0.44
14:B1:103:CRT:H32	5:B3:31:LEU:HD21	1.99	0.44
5:B1:11:ILE:HG12	14:B1:103:CRT:H10	2.00	0.44
6:B2:17:PHE:HE1	14:B2:102:CRT:H9	1.75	0.44
5:B3:43:ASP:OD1	5:B3:44:LEU:N	2.51	0.44
14:BA:102:CRT:H32	5:BD:31:LEU:CD2	2.48	0.44
3:BM:204:LEU:HD11	4:BH:19:PHE:CZ	2.52	0.44
5:BI:9:TYR:CD1	5:BI:9:TYR:C	2.91	0.44
2:BL:252:TRP:HA	2:BL:252:TRP:HE3	1.81	0.44
2:BL:95:TRP:CE3	2:BL:96:GLN:HA	2.53	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:86:MET:HE1	2:BL:96:GLN:HB2	2.00	0.44
14:BV:102:CRT:C39	5:BW:36:HIS:HB2	2.15	0.44
5:AU:59:GLY:O	5:AU:60:LYS:O	2.35	0.44
1:BC:153:TYR:O	1:BC:157:ARG:HG2	2.18	0.44
1:AC:53:ILE:O	1:AC:55:ALA:N	2.51	0.44
6:AE:10:THR:CG2	6:AE:11:ASP:N	2.81	0.44
1:BC:316:LYS:CB	1:BC:320:GLY:H	2.31	0.44
5:B9:15:LEU:HB3	5:B9:20:VAL:HG21	1.99	0.44
6:AZ:33:VAL:HG13	6:AZ:34:ILE:N	2.33	0.44
6:AV:30:GLY:O	6:AV:34:ILE:CG1	2.66	0.44
5:A1:54:SER:O	5:A1:57:ALA:HB3	2.18	0.44
9:A0:102:BCL:H18	9:A0:102:BCL:CBB	2.47	0.43
5:A1:39:VAL:HG13	5:A1:40:LEU:N	2.33	0.43
6:A2:45:TRP:HE1	9:A2:101:BCL:HHC	1.82	0.43
5:A5:14:ILE:O	5:A5:14:ILE:HG22	2.18	0.43
5:A5:16:ASP:HB2	5:A5:19:ARG:HH21	1.82	0.43
1:AC:121:ILE:CG2	1:AC:123:THR:CG2	2.96	0.43
5:AD:46:TRP:NE1	5:AD:47:LEU:HD22	2.33	0.43
3:AM:286:LEU:HD22	4:AH:12:ALA:HB2	2.00	0.43
4:AH:171:TRP:NE1	4:AH:194:LEU:HD21	2.33	0.43
6:AG:46:LEU:CB	6:AJ:42:TYR:CZ	2.86	0.43
9:AK:102:BCL:HBB3	9:AK:102:BCL:HMB1	1.99	0.43
2:AL:116:ILE:C	2:AL:118:ARG:N	2.71	0.43
2:AL:137:TYR:HB2	9:AL:301:BCL:H52	2.00	0.43
2:AL:139:VAL:CG2	2:AL:258:LEU:HD22	2.48	0.43
2:AL:164:ASP:O	2:AL:166:VAL:N	2.51	0.43
3:AM:133:THR:O	3:AM:134:TYR:C	2.56	0.43
3:AM:164:ARG:O	3:AM:167:MET:N	2.50	0.43
3:AM:180:PHE:O	3:AM:184:ASP:OD1	2.36	0.43
5:AQ:43:ASP:CB	5:AS:47:LEU:HB3	2.47	0.43
5:AU:9:TYR:HE1	6:AV:14:ALA:HB3	1.82	0.43
5:AW:9:TYR:O	5:AW:11:ILE:N	2.51	0.43
6:AZ:22:MET:HG3	6:AZ:26:TYR:CE1	2.41	0.43
9:BZ:101:BCL:CBB	9:B1:102:BCL:CHC	2.95	0.43
5:B1:30:VAL:HG13	5:B1:31:LEU:N	2.33	0.43
5:B5:14:ILE:CD1	14:B5:103:CRT:H41	2.48	0.43
6:B8:26:TYR:O	6:B8:30:GLY:N	2.50	0.43
5:B7:44:LEU:HB2	6:B8:43:ARG:NH1	2.32	0.43
5:BA:27:PHE:O	5:BA:30:VAL:HG12	2.18	0.43
5:BA:55:TYR:CE1	5:B9:44:LEU:CB	2.94	0.43
5:BD:43:ASP:O	5:BD:45:ASN:N	2.50	0.43
6:BG:24:SER:O	6:BG:27:ALA:N	2.50	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:BH:184:VAL:O	4:BH:193:VAL:HG22	2.18	0.43
6:BJ:45:TRP:HD1	6:BJ:46:LEU:HD23	1.83	0.43
2:BL:195:ALA:HA	2:BL:198:MET:HE2	1.99	0.43
9:BM:401:BCL:HMB1	9:BM:401:BCL:HBB3	2.00	0.43
3:BM:79:VAL:O	3:BM:80:HIS:C	2.55	0.43
5:BO:11:ILE:HG22	5:BO:11:ILE:O	2.17	0.43
6:BP:46:LEU:O	5:BQ:51:ILE:O	2.35	0.43
5:BS:29:ILE:CG2	5:BS:30:VAL:N	2.79	0.43
3:BM:84:PHE:HZ	14:BV:102:CRT:H401	1.83	0.43
9:BU:102:BCL:HED2	6:BV:35:ALA:HB2	2.00	0.43
5:BW:12:TRP:CA	5:BW:12:TRP:CE3	3.01	0.43
5:BY:27:PHE:C	5:BY:27:PHE:HD1	2.21	0.43
5:BY:40:LEU:HD13	5:BY:46:TRP:CD2	2.53	0.43
6:BN:18:HIS:O	6:BN:22:MET:CB	2.66	0.43
1:AC:82:LEU:CD1	1:AC:93:THR:HG21	2.48	0.43
6:BE:38:LEU:C	6:BE:38:LEU:HD23	2.38	0.43
4:AH:107:MET:HG3	4:AH:242:TYR:CE1	2.53	0.43
6:A4:41:LEU:C	6:A4:41:LEU:HD23	2.38	0.43
4:AH:203:ASP:O	4:AH:205:LYS:N	2.51	0.43
6:AB:11:ASP:HA	6:AB:14:ALA:HB3	1.99	0.43
6:A0:36:HIS:CE1	9:A0:102:BCL:CHB	2.98	0.43
9:A6:101:BCL:CHB	9:A7:103:BCL:HMB3	2.48	0.43
5:A7:39:VAL:HG11	9:A7:103:BCL:HBC1	2.00	0.43
14:AA:102:CRT:H23	6:AE:16:GLU:CG	2.45	0.43
1:AC:167:VAL:O	1:AC:168:THR:C	2.56	0.43
5:AD:49:ASP:HB2	5:AF:56:GLN:HG2	1.98	0.43
3:AM:11:VAL:HG11	4:AH:151:PRO:HD3	1.99	0.43
5:AI:10:LYS:CB	14:AN:102:CRT:H5	2.49	0.43
6:AJ:17:PHE:O	6:AJ:17:PHE:HD1	2.02	0.43
2:AL:229:VAL:C	3:AM:51:ILE:HD12	2.38	0.43
2:AL:40:PHE:O	2:AL:41:CYS:C	2.56	0.43
6:AN:40:TRP:CE2	6:AN:44:PRO:HB3	2.53	0.43
6:AN:40:TRP:NE1	6:AN:44:PRO:HB3	2.33	0.43
9:AR:101:BCL:HBB3	9:AS:103:BCL:NC	2.33	0.43
5:AS:20:VAL:O	5:AS:24:ILE:HG12	2.17	0.43
9:AU:102:BCL:HBD	9:AV:102:BCL:OBD	2.17	0.43
5:AW:52:PRO:HD2	5:AW:55:TYR:OH	2.18	0.43
6:AX:45:TRP:CE2	9:AX:101:BCL:H2C	2.53	0.43
5:B1:9:TYR:HA	6:B2:18:HIS:ND1	2.33	0.43
6:B8:42:TYR:CG	6:B8:43:ARG:N	2.85	0.43
5:B9:35:ILE:CG2	9:B0:102:BCL:C1D	2.96	0.43
9:BB:101:BCL:HBB3	9:BB:101:BCL:HMB1	2.00	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:247:CYS:O	1:BC:248:THR:C	2.54	0.43
1:BC:129:ARG:HG2	1:BC:287:LEU:HD11	2.00	0.43
6:BG:17:PHE:CD2	14:BG:102:CRT:H6	2.53	0.43
5:BF:9:TYR:HA	6:BG:18:HIS:CG	2.53	0.43
5:BI:35:ILE:C	5:BI:37:MET:N	2.71	0.43
2:BL:101:CYS:O	2:BL:102:ALA:C	2.56	0.43
2:BL:77:PRO:HB3	2:BL:95:TRP:CE2	2.53	0.43
3:BM:75:MET:HG2	3:BM:93:LEU:HB3	1.99	0.43
9:BS:102:BCL:O1A	6:BT:28:TRP:HZ2	2.01	0.43
14:BU:103:CRT:H131	14:BU:103:CRT:H15	1.72	0.43
5:BU:14:ILE:CD1	14:BU:103:CRT:H31A	2.28	0.43
5:BY:46:TRP:CZ3	9:BY:102:BCL:CB	3.00	0.43
6:BN:10:THR:CG2	6:BN:11:ASP:H	2.08	0.43
5:BD:51:ILE:HG22	5:BD:52:PRO:HA	2.00	0.43
5:AK:19:ARG:O	5:AK:23:SER:HB3	2.17	0.43
6:BE:10:THR:CG2	6:BE:11:ASP:N	2.80	0.43
4:AH:121:LYS:HZ1	4:BH:73:GLY:HA2	1.82	0.43
6:B2:46:LEU:HB2	5:B3:52:PRO:HD3	1.97	0.43
3:AM:27:ASN:ND2	5:AO:19:ARG:HH11	2.13	0.43
4:BH:222:VAL:HA	4:BH:242:TYR:CD2	2.53	0.43
6:A2:22:MET:O	6:A2:26:TYR:HD1	2.01	0.43
9:A3:103:BCL:HMB1	9:A3:103:BCL:HBB3	2.00	0.43
6:A4:40:TRP:CE3	6:A4:44:PRO:HA	2.54	0.43
1:AC:282:ASN:C	1:AC:283:TYR:CD1	2.88	0.43
5:AD:50:ASN:O	5:AD:53:VAL:CB	2.66	0.43
5:AF:33:LEU:HD12	5:AF:33:LEU:H	1.81	0.43
9:AG:101:BCL:H3A	9:AG:101:BCL:HBA1	1.58	0.43
6:AG:24:SER:O	6:AG:27:ALA:N	2.50	0.43
5:AI:10:LYS:HB2	14:AN:102:CRT:H83	1.99	0.43
5:AI:27:PHE:CE2	5:AK:29:ILE:CD1	2.98	0.43
9:AK:102:BCL:HBB2	9:AK:102:BCL:HMB1	2.00	0.43
2:AL:127:PRO:O	2:AL:128:PHE:C	2.56	0.43
2:AL:136:ALA:HA	2:AL:139:VAL:HG12	2.00	0.43
3:AM:67:ALA:O	3:AM:71:ILE:N	2.51	0.43
1:AC:175:PRO:HG3	3:AM:77:ALA:O	2.17	0.43
9:AQ:102:BCL:HHC	9:AQ:102:BCL:OBB	2.18	0.43
5:AU:34:LEU:O	5:AU:38:ILE:HG22	2.18	0.43
6:AX:21:PHE:CD2	14:AX:102:CRT:C16	3.01	0.43
9:B1:102:BCL:OBB	9:B1:102:BCL:HHC	2.18	0.43
5:B1:12:TRP:HD1	6:B2:18:HIS:HB2	1.83	0.43
5:B1:39:VAL:HG13	5:B1:40:LEU:N	2.33	0.43
9:B2:101:BCL:CMB	9:B3:102:BCL:C1B	2.95	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:129:ARG:HA	1:BC:132:GLU:HG3	1.99	0.43
1:BC:203:PHE:CD1	1:BC:210:ILE:HG12	2.50	0.43
1:BC:238:ASN:O	1:BC:239:ILE:C	2.57	0.43
1:BC:303:LEU:O	7:BC:502:HEM:HMD2	2.18	0.43
5:BI:44:LEU:CD1	5:BI:46:TRP:HE3	2.30	0.43
2:BL:116:ILE:O	2:BL:117:CYS:C	2.56	0.43
2:BL:150:ALA:O	2:BL:153:HIS:CB	2.67	0.43
9:BL:301:BCL:H203	9:BL:301:BCL:H13	2.00	0.43
2:BL:53:GLY:C	2:BL:55:THR:N	2.68	0.43
3:BM:297:TRP:HZ3	3:BM:303:MET:SD	2.41	0.43
9:BO:102:BCL:HH3	9:BO:102:BCL:OBB	2.18	0.43
9:BP:101:BCL:HMC2	5:BQ:47:LEU:CD2	2.48	0.43
5:BQ:50:ASN:HB3	5:BS:56:GLN:CA	2.46	0.43
6:BV:21:PHE:CD1	14:BV:102:CRT:C14	2.68	0.43
9:BX:101:BCL:HBA1	9:BX:101:BCL:H3A	1.35	0.43
3:BM:101:GLN:C	3:BM:103:GLY:H	2.22	0.43
6:BB:46:LEU:OXT	6:BE:43:ARG:NH2	2.48	0.43
5:AY:16:ASP:O	5:AY:20:VAL:HG22	2.18	0.43
1:BC:90:PHE:HZ	7:BC:501:HEM:C2A	2.37	0.43
6:BE:10:THR:CG2	6:BE:11:ASP:H	2.22	0.43
1:BC:156:HIS:CE1	1:BC:160:PRO:O	2.71	0.43
1:BC:65:ALA:CB	1:BC:89:GLU:OE1	2.67	0.43
1:AC:275:HIS:CD2	1:AC:275:HIS:O	2.71	0.43
1:BC:174:TYR:O	1:BC:174:TYR:HD1	2.01	0.43
9:AZ:101:BCL:H201	6:A2:38:LEU:HD21	1.94	0.43
5:A5:18:ARG:HB2	5:A5:19:ARG:HH12	1.82	0.43
5:A5:40:LEU:HD13	5:A5:46:TRP:CE3	2.53	0.43
5:A5:50:ASN:OD1	5:A5:51:ILE:N	2.52	0.43
5:A9:4:MET:CE	5:A9:4:MET:HA	2.47	0.43
5:AA:33:LEU:HA	14:A0:101:CRT:H391	2.00	0.43
1:AC:111:HIS:CE1	1:AC:124:LYS:CE	3.01	0.43
1:AC:20:LEU:HG	2:AL:271:TRP:CZ2	2.53	0.43
9:AG:101:BCL:C1B	9:AI:102:BCL:CMB	2.90	0.43
6:AG:46:LEU:HD13	6:AJ:42:TYR:CE1	2.52	0.43
4:AH:134:VAL:HG21	4:AH:174:ARG:HH21	1.83	0.43
4:AH:4:GLY:O	4:AH:5:ILE:HB	2.18	0.43
5:AI:8:LEU:O	5:AI:11:ILE:HG22	2.18	0.43
2:AL:198:MET:O	2:AL:201:SER:HB3	2.18	0.43
2:AL:230:GLY:CA	3:AM:51:ILE:HD12	2.49	0.43
2:AL:241:LEU:O	2:AL:245:LEU:HG	2.17	0.43
3:AM:226:VAL:HG22	3:AM:226:VAL:O	2.19	0.43
3:AM:193:TYR:HA	3:AM:292:ASP:O	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AM:83:VAL:HG23	3:AM:84:PHE:H	1.83	0.43
3:AM:84:PHE:N	3:AM:84:PHE:HD1	2.16	0.43
6:AN:36:HIS:CG	9:AN:101:BCL:H162	2.54	0.43
6:AP:18:HIS:O	6:AP:22:MET:HB2	2.18	0.43
5:AS:24:ILE:HG21	14:AT:102:CRT:C20	2.48	0.43
5:AS:4:MET:HB2	5:AS:8:LEU:CD1	2.47	0.43
9:AY:102:BCL:HAC2	9:AZ:101:BCL:CBC	2.48	0.43
14:B2:102:CRT:H291	9:B3:102:BCL:O2A	2.18	0.43
5:B3:10:LYS:C	14:B7:102:CRT:H82	2.37	0.43
5:BD:35:ILE:HA	5:BD:38:ILE:HG22	1.99	0.43
5:BF:39:VAL:HG12	5:BF:39:VAL:O	2.18	0.43
5:BF:9:TYR:C	5:BF:9:TYR:CD1	2.91	0.43
6:BG:21:PHE:HB2	14:BG:102:CRT:H11	1.99	0.43
2:BL:3:MET:HG2	2:BL:11:ARG:NH2	2.32	0.43
2:BL:209:PRO:O	2:BL:210:GLN:O	2.36	0.43
2:BL:89:LEU:H	2:BL:89:LEU:HD12	1.83	0.43
3:BM:206:ILE:O	3:BM:207:ALA:C	2.57	0.43
14:BO:103:CRT:H10	14:BO:103:CRT:H81	1.80	0.43
5:BO:5:ASN:O	5:BO:8:LEU:HD22	2.19	0.43
6:BP:40:TRP:HZ3	6:BP:45:TRP:N	2.17	0.43
5:BS:9:TYR:CD1	5:BS:9:TYR:C	2.91	0.43
9:BU:102:BCL:HBB2	9:BU:102:BCL:HMB1	2.00	0.43
5:BS:42:THR:CG2	5:BU:47:LEU:HB3	2.47	0.43
5:BW:9:TYR:HA	6:BX:18:HIS:ND1	2.28	0.43
5:BY:9:TYR:CE1	6:BZ:15:LYS:HG2	2.53	0.43
2:BL:216:LYS:HB3	2:BL:220:HIS:CG	2.54	0.43
6:BE:43:ARG:NH1	5:BF:55:TYR:CD2	2.78	0.43
1:AC:62:LEU:O	1:AC:92:ARG:NH2	2.51	0.43
1:AC:57:GLN:NE2	1:AC:58:PRO:HD2	2.33	0.43
9:A0:102:BCL:H141	9:A0:102:BCL:HMB2	1.89	0.43
9:AZ:101:BCL:C1B	9:A1:102:BCL:CMB	2.96	0.43
5:A1:10:LYS:C	14:A1:103:CRT:H82	2.38	0.43
5:A3:46:TRP:CZ2	9:A3:103:BCL:CHC	3.02	0.43
6:A6:29:PHE:HE1	9:A6:101:BCL:H11	1.70	0.43
5:A5:4:MET:HE3	6:A8:24:SER:HB3	1.95	0.43
1:AC:200:LEU:HD11	1:AC:238:ASN:HD22	1.78	0.43
5:AD:5:ASN:HD22	6:AE:22:MET:CG	2.30	0.43
9:AD:102:BCL:CAC	9:AE:101:BCL:CBC	2.96	0.43
6:AG:36:HIS:CE1	9:AG:101:BCL:C4A	3.01	0.43
2:AL:271:TRP:C	2:AL:273:ASN:H	2.21	0.43
2:AL:278:LEU:HD12	2:AL:281:TRP:HZ2	1.83	0.43
3:AM:211:GLY:O	3:AM:215:LEU:N	2.44	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AM:156:PHE:CZ	9:AM:402:BCL:HBD	2.52	0.43
3:AM:56:THR:O	3:AM:60:SER:N	2.38	0.43
5:AO:18:ARG:H	5:AO:18:ARG:HG2	1.42	0.43
6:AP:21:PHE:CE1	14:AP:102:CRT:H16	2.53	0.43
6:AT:11:ASP:O	6:AT:15:LYS:HD2	2.18	0.43
9:AU:102:BCL:C1D	9:AV:102:BCL:CMD	2.85	0.43
5:AU:26:ALA:HA	5:AU:29:ILE:CG2	2.48	0.43
5:AU:30:VAL:CG1	5:AU:31:LEU:N	2.80	0.43
9:AV:102:BCL:H3A	9:AV:102:BCL:HBA1	1.76	0.43
6:AV:44:PRO:O	5:AW:52:PRO:HD2	2.19	0.43
5:AW:9:TYR:CD1	6:AX:15:LYS:HB2	2.54	0.43
5:AY:35:ILE:O	5:AY:36:HIS:C	2.54	0.43
9:AZ:101:BCL:HBA1	9:AZ:101:BCL:H3A	1.31	0.43
6:B2:16:GLU:HB2	14:B2:102:CRT:C1M	2.47	0.43
9:B3:102:BCL:H193	9:B3:102:BCL:H13	2.00	0.43
5:B3:46:TRP:CZ3	9:B3:102:BCL:HAC1	2.53	0.43
5:B7:46:TRP:HH2	9:B7:103:BCL:HBC3	1.66	0.43
1:BC:36:ARG:HD2	2:BL:77:PRO:O	2.18	0.43
5:BD:38:ILE:HD11	5:BF:40:LEU:CD2	2.48	0.43
5:BF:45:ASN:O	5:BF:47:LEU:N	2.52	0.43
5:BI:35:ILE:C	5:BI:37:MET:H	2.21	0.43
6:BJ:37:LEU:HD13	6:BJ:37:LEU:HA	1.92	0.43
2:BL:17:LEU:CD2	2:BL:118:ARG:HD2	2.48	0.43
2:BL:38:VAL:O	2:BL:39:GLY:C	2.57	0.43
2:BL:6:PHE:O	2:BL:9:LYS:HG2	2.18	0.43
2:BL:68:TYR:CA	2:BL:73:ILE:HD11	2.47	0.43
3:BM:130:TRP:HA	3:BM:150:PHE:CD2	2.53	0.43
3:BM:180:PHE:O	3:BM:183:LEU:N	2.52	0.43
3:BM:243:THR:HA	3:BM:246:GLU:HB2	2.01	0.43
10:BL:302:BPH:H161	9:BM:401:BCL:H171	2.00	0.43
5:BS:12:TRP:HE1	6:BT:18:HIS:CG	2.37	0.43
5:BS:38:ILE:HG23	5:BS:39:VAL:N	2.33	0.43
14:BV:102:CRT:C2M	5:BW:37:MET:HG2	2.46	0.43
5:BW:29:ILE:CG2	5:BW:30:VAL:N	2.82	0.43
6:BX:46:LEU:CD2	6:BZ:42:TYR:CE2	3.02	0.43
5:BY:13:LEU:O	6:BZ:7:THR:HA	2.19	0.43
4:BH:176:GLU:HG3	4:BH:178:GLN:CG	2.33	0.43
3:AM:106:ILE:H	5:AO:42:THR:HG21	1.83	0.43
2:AL:72:ARG:O	2:AL:73:ILE:C	2.57	0.43
5:AK:22:VAL:HG13	5:AK:23:SER:N	2.34	0.43
5:BW:51:ILE:HB	5:BW:52:PRO:O	2.18	0.43
5:BQ:17:PRO:HB3	6:BR:17:PHE:CZ	2.54	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:17:PRO:O	5:AF:21:LEU:HB2	2.19	0.43
3:BM:144:GLN:HA	3:BM:144:GLN:OE1	2.19	0.43
5:AY:12:TRP:HH2	9:A1:102:BCL:H203	1.84	0.43
9:A1:102:BCL:H92	14:A2:102:CRT:H181	1.95	0.43
5:A1:7:ASN:O	5:A1:10:LYS:HE3	2.19	0.43
9:A2:101:BCL:CHC	9:A3:103:BCL:HBB3	2.49	0.43
9:A5:102:BCL:C2A	9:A5:102:BCL:O1D	2.63	0.43
5:A7:40:LEU:HD11	5:A7:47:LEU:CD2	2.49	0.43
6:A8:28:TRP:C	6:A8:30:GLY:N	2.70	0.43
5:AA:29:ILE:HG12	5:A9:27:PHE:HE2	1.82	0.43
1:AC:282:ASN:HB3	1:AC:283:TYR:CD1	2.53	0.43
9:AD:102:BCL:ND	9:AE:101:BCL:CMD	2.81	0.43
6:AG:21:PHE:CD2	14:AG:102:CRT:H14	2.54	0.43
6:AG:28:TRP:CD1	6:AG:32:VAL:HG21	2.49	0.43
5:AI:39:VAL:CG1	9:AI:102:BCL:HBC1	2.40	0.43
5:AI:40:LEU:CD1	5:AI:40:LEU:N	2.81	0.43
6:AJ:17:PHE:HA	6:AJ:20:ILE:CG2	2.43	0.43
2:AL:138:LEU:CD1	2:AL:138:LEU:N	2.81	0.43
2:AL:140:LEU:CD1	9:AL:301:BCL:O2D	2.67	0.43
11:AL:304:UQ8:H35	11:AL:304:UQ8:H32	1.58	0.43
2:AL:30:PHE:CD2	3:AM:255:THR:O	2.72	0.43
2:AL:93:GLY:O	2:AL:94:LEU:C	2.57	0.43
3:AM:165:PRO:CB	3:AM:174:ALA:HB2	2.48	0.43
3:AM:172:ALA:O	3:AM:174:ALA:N	2.51	0.43
3:AM:180:PHE:O	3:AM:181:PRO:C	2.57	0.43
3:AM:223:ILE:HD11	3:AM:234:GLU:OE2	2.19	0.43
15:AM:409:PEF:H121	15:AM:409:PEF:H21	2.00	0.43
9:AK:102:BCL:CHD	9:AN:101:BCL:HMD2	2.36	0.43
5:AO:52:PRO:C	5:AO:54:SER:N	2.72	0.43
5:AO:9:TYR:HA	6:AP:18:HIS:CG	2.54	0.43
5:AO:21:LEU:HD13	6:AP:17:PHE:HZ	1.83	0.43
5:AO:14:ILE:O	6:AP:7:THR:N	2.51	0.43
5:AS:28:GLN:HB2	9:AS:103:BCL:H43	2.01	0.43
6:AV:10:THR:HB	6:AV:13:GLU:OE2	2.19	0.43
5:AW:4:MET:HE2	6:AZ:23:GLN:HB3	2.00	0.43
9:AW:101:BCL:ND	9:AX:101:BCL:CMD	2.82	0.43
6:AX:21:PHE:CD1	6:AX:22:MET:N	2.87	0.43
6:AX:46:LEU:HA	6:AX:46:LEU:HD23	1.86	0.43
9:B4:101:BCL:CHB	9:B5:102:BCL:HMB3	2.49	0.43
14:B5:103:CRT:C34	9:B9:102:BCL:HBA1	2.24	0.43
5:B9:2:PHE:N	5:B9:2:PHE:CD1	2.85	0.43
6:BB:21:PHE:HD1	14:BB:102:CRT:H14	1.83	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:BB:26:TYR:HA	6:BB:29:PHE:HD2	1.84	0.43
1:BC:161:VAL:HG13	7:BC:502:HEM:O1D	2.17	0.43
1:BC:267:THR:C	1:BC:269:ALA:N	2.72	0.43
5:BF:38:ILE:O	5:BF:38:ILE:HG12	2.18	0.43
9:BK:102:BCL:HBB3	9:BK:102:BCL:HMB1	1.98	0.43
5:BK:8:LEU:HD22	5:BK:11:ILE:HD11	2.00	0.43
2:BL:119:LYS:C	2:BL:121:GLY:N	2.71	0.43
3:BM:174:ALA:O	3:BM:175:VAL:O	2.36	0.43
3:BM:216:PHE:O	3:BM:216:PHE:CG	2.72	0.43
2:BL:246:ALA:HB3	3:BM:217:ALA:HB2	2.00	0.43
9:BQ:103:BCL:HBC2	9:BQ:104:BCL:CMD	2.49	0.43
14:BV:102:CRT:H2M1	5:BW:37:MET:CB	2.39	0.43
14:BV:102:CRT:H2M1	5:BW:37:MET:CG	2.49	0.43
5:BY:46:TRP:CD1	5:BY:47:LEU:N	2.86	0.43
5:BY:54:SER:O	5:BY:55:TYR:C	2.56	0.43
6:BT:10:THR:CG2	6:BT:11:ASP:H	2.19	0.43
5:BI:15:LEU:HB3	5:BI:20:VAL:CG2	2.47	0.43
5:B5:33:LEU:HD12	5:B5:33:LEU:C	2.39	0.43
14:A0:101:CRT:H32	9:A0:102:BCL:CMA	2.46	0.43
6:A0:42:TYR:CE2	6:A0:43:ARG:HD2	2.54	0.43
6:A6:25:MET:SD	6:A6:29:PHE:CE2	3.12	0.43
5:A9:46:TRP:CZ3	9:A9:102:BCL:HBC3	2.53	0.43
5:A9:26:ALA:O	5:A9:30:VAL:HG23	2.19	0.43
1:AC:259:TRP:CH2	1:AC:266:ARG:NH2	2.86	0.43
9:AD:102:BCL:H193	9:AD:102:BCL:H13	2.01	0.43
5:AF:35:ILE:CA	5:AF:38:ILE:HG22	2.47	0.43
4:AH:125:LEU:CB	4:AH:129:GLY:O	2.65	0.43
9:AK:102:BCL:CMD	9:AN:101:BCL:C1D	2.97	0.43
5:AK:49:ASP:OD1	5:AK:50:ASN:N	2.51	0.43
10:AL:302:BPH:H141	9:AM:401:BCL:HBB3	2.00	0.43
2:AL:43:THR:O	2:AL:47:VAL:N	2.45	0.43
2:AL:95:TRP:CE3	2:AL:96:GLN:HA	2.53	0.43
3:AM:172:ALA:C	3:AM:174:ALA:N	2.72	0.43
3:AM:91:PHE:O	3:AM:180:PHE:CG	2.71	0.43
3:AM:235:ILE:O	3:AM:238:ILE:HB	2.18	0.43
9:AL:301:BCL:CGA	9:AM:401:BCL:HBC1	2.48	0.43
9:AM:401:BCL:OBB	9:AM:401:BCL:HHC	2.18	0.43
9:AO:102:BCL:H3A	9:AO:102:BCL:HBA1	1.81	0.43
9:AO:102:BCL:HMB1	9:AO:102:BCL:HBB2	2.00	0.43
5:AK:14:ILE:HG23	5:AO:18:ARG:HD3	2.00	0.43
14:AP:102:CRT:H2M3	5:AQ:36:HIS:HB3	2.00	0.43
6:AX:28:TRP:HA	6:AX:31:LEU:HG	2.01	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:B5:103:CRT:H2M3	5:B9:36:HIS:CB	2.48	0.43
6:B6:25:MET:SD	6:B6:29:PHE:CE2	3.12	0.43
9:BA:101:BCL:CBD	9:BB:101:BCL:OBD	2.67	0.43
5:BA:36:HIS:CD2	9:BB:101:BCL:HMD3	2.53	0.43
6:BB:22:MET:O	6:BB:26:TYR:HD1	1.97	0.43
1:BC:137:ALA:C	1:BC:139:SER:H	2.22	0.43
1:BC:218:LEU:HA	3:BM:291:VAL:HA	2.00	0.43
1:BC:203:PHE:CD1	1:BC:235:LEU:HD22	2.53	0.43
4:BH:30:LEU:O	4:BH:31:ARG:C	2.57	0.43
5:BI:9:TYR:CD2	6:BJ:15:LYS:HG2	2.53	0.43
2:BL:221:GLU:C	2:BL:223:THR:N	2.72	0.43
2:BL:239:HIS:CG	3:BM:223:ILE:HG21	2.54	0.43
2:BL:250:ALA:HB2	10:BL:302:BPH:CBC	2.49	0.43
3:BM:189:PHE:HB3	9:BM:402:BCL:CMD	2.48	0.43
9:BM:402:BCL:HBB2	9:BM:402:BCL:HMB1	1.98	0.43
9:BN:101:BCL:H3A	9:BN:101:BCL:HBA1	1.75	0.43
5:BO:40:LEU:C	5:BO:40:LEU:HD23	2.39	0.43
5:BO:44:LEU:C	5:BO:44:LEU:HD12	2.39	0.43
9:BP:101:BCL:C1B	9:BQ:103:BCL:HMB3	2.49	0.43
9:BS:102:BCL:HMB1	9:BS:102:BCL:CBB	2.48	0.43
5:BS:46:TRP:CE3	9:BS:102:BCL:H2C	2.54	0.43
5:BS:46:TRP:CZ3	9:BS:102:BCL:HBC3	2.54	0.43
5:BU:9:TYR:CE2	5:BU:10:LYS:HG2	2.54	0.43
6:BV:30:GLY:O	6:BV:34:ILE:HG13	2.19	0.43
5:BY:32:GLY:CA	9:BZ:101:BCL:HED2	2.49	0.43
6:BZ:46:LEU:HD22	6:B2:42:TYR:HH	1.67	0.43
4:AH:226:SER:OG	4:AH:227:ASN:N	2.52	0.43
4:AH:176:GLU:HA	4:AH:177:PRO:HD2	1.86	0.43
6:A0:10:THR:H	6:A0:13:GLU:HG2	1.84	0.43
6:BE:42:TYR:CD2	6:BE:43:ARG:HG3	2.53	0.43
5:BF:18:ARG:HB2	5:BF:18:ARG:CZ	2.48	0.43
5:BD:13:LEU:O	6:BE:7:THR:HB	2.18	0.43
5:A9:36:HIS:CE1	9:A0:102:BCL:OBD	2.71	0.43
5:A1:11:ILE:HG22	14:A1:103:CRT:C8	2.42	0.43
5:A5:46:TRP:CZ3	9:A5:102:BCL:HBC3	2.54	0.43
5:AA:10:LYS:C	5:AA:13:LEU:HD13	2.39	0.43
1:AC:224:ALA:O	3:AM:192:ARG:NE	2.29	0.43
1:AC:232:THR:O	1:AC:235:LEU:HB3	2.18	0.43
1:AC:266:ARG:O	1:AC:267:THR:C	2.57	0.43
1:AC:316:LYS:O	1:AC:317:PRO:O	2.37	0.43
5:AF:43:ASP:OD1	5:AF:44:LEU:CG	2.66	0.43
9:AG:101:BCL:CMC	9:AI:102:BCL:HBB1	2.49	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:276:LEU:C	2:AL:278:LEU:H	2.22	0.43
3:AM:205:SER:C	9:AM:402:BCL:HMA2	2.39	0.43
3:AM:241:ARG:CG	3:AM:242:GLY:H	2.14	0.43
3:AM:32:GLY:C	3:AM:34:PRO:HD3	2.38	0.43
3:AM:79:VAL:O	3:AM:80:HIS:C	2.58	0.43
6:AP:27:ALA:O	6:AP:31:LEU:CG	2.56	0.43
5:AQ:29:ILE:CG2	5:AQ:30:VAL:N	2.82	0.43
6:AT:45:TRP:HD1	6:AT:46:LEU:H	1.66	0.43
9:AU:102:BCL:C2D	9:AV:102:BCL:CMD	2.94	0.43
2:AL:280:LEU:HA	5:AW:38:ILE:HG13	1.99	0.43
5:AY:34:LEU:O	5:AY:37:MET:HB2	2.19	0.43
6:B0:33:VAL:HG12	6:B0:37:LEU:HD12	1.94	0.43
6:B2:33:VAL:HG13	6:B2:34:ILE:N	2.33	0.43
5:BA:47:LEU:CG	5:B9:43:ASP:HB2	2.48	0.43
6:BJ:17:PHE:CD1	6:BJ:17:PHE:C	2.92	0.43
5:BK:22:VAL:HA	5:BK:25:VAL:HG23	2.01	0.43
5:BK:46:TRP:CD2	9:BK:102:BCL:H2C	2.54	0.43
3:BM:314:VAL:HG12	3:BM:315:ASN:N	2.33	0.43
2:BL:50:ILE:HG21	9:BM:401:BCL:H191	1.99	0.43
3:BM:206:ILE:HG23	9:BM:402:BCL:HMB3	2.01	0.43
5:BO:10:LYS:HB2	14:BO:103:CRT:H83	2.00	0.43
5:BO:36:HIS:O	5:BO:40:LEU:CB	2.67	0.43
6:BT:29:PHE:CE1	9:BT:101:BCL:C1	3.01	0.43
5:BY:55:TYR:CD1	5:BY:56:GLN:N	2.76	0.43
5:BY:9:TYR:HB2	6:BZ:15:LYS:HA	2.01	0.43
6:BZ:21:PHE:CD1	6:BZ:21:PHE:C	2.91	0.43
5:B9:49:ASP:CG	5:B9:50:ASN:OD1	2.56	0.43
1:AC:53:ILE:C	1:AC:55:ALA:N	2.71	0.43
6:B2:40:TRP:CZ3	6:B2:44:PRO:CA	3.01	0.43
5:BF:54:SER:O	5:BF:58:LEU:CB	2.66	0.43
5:A9:32:GLY:N	9:A0:102:BCL:HED2	2.33	0.43
5:A3:35:ILE:O	5:A3:38:ILE:HG22	2.18	0.43
5:A3:43:ASP:OD2	5:A5:47:LEU:O	2.36	0.43
5:A5:4:MET:HB3	6:A8:24:SER:OG	2.19	0.43
5:A7:42:THR:HB	5:A9:48:ASP:CG	2.39	0.43
5:AA:47:LEU:CB	5:A9:43:ASP:HB2	2.47	0.43
5:AF:35:ILE:O	5:AF:36:HIS:C	2.58	0.43
5:AF:40:LEU:HD22	5:AF:45:ASN:CA	2.48	0.43
5:AI:46:TRP:NE1	5:AI:47:LEU:HD13	2.34	0.43
2:AL:155:PHE:HB2	2:AL:156:PRO:CD	2.44	0.43
2:AL:18:ILE:HG23	4:AH:259:LEU:HB2	2.01	0.43
2:AL:208:ASN:N	2:AL:209:PRO:CD	2.82	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AL:301:BCL:HBB2	9:AL:301:BCL:HMB1	2.00	0.43
2:AL:257:ILE:HD13	9:AL:301:BCL:OBD	2.18	0.43
9:AL:303:BCL:HBA1	9:AL:303:BCL:H3A	1.72	0.43
2:AL:49:LEU:HD12	2:AL:98:ILE:CG1	2.49	0.43
2:AL:7:GLU:O	2:AL:9:LYS:N	2.52	0.43
2:AL:75:ILE:HG21	2:AL:95:TRP:HA	2.01	0.43
3:AM:197:TYR:HA	17:AM:503:HOH:O	2.18	0.43
3:AM:276:THR:C	3:AM:278:ILE:N	2.72	0.43
9:AM:402:BCL:HMB1	9:AM:402:BCL:HBB2	2.01	0.43
6:AN:46:LEU:O	5:AO:51:ILE:HD12	2.19	0.43
9:AO:102:BCL:HBB3	9:AO:102:BCL:HMB1	2.00	0.43
9:AR:101:BCL:C2B	9:AS:103:BCL:C1B	2.97	0.43
14:B1:103:CRT:H392	9:B5:102:BCL:CMB	2.49	0.43
5:B7:33:LEU:HG	14:B7:102:CRT:C36	2.48	0.43
5:B7:21:LEU:O	5:B7:25:VAL:HG23	2.19	0.43
5:B7:33:LEU:H	5:B7:33:LEU:CD1	2.30	0.43
1:BC:126:VAL:O	1:BC:127:SER:C	2.55	0.43
5:BF:24:ILE:C	5:BF:26:ALA:N	2.72	0.43
2:BL:259:ILE:O	2:BL:261:GLY:N	2.52	0.43
2:BL:71:TRP:O	2:BL:160:LEU:HG	2.19	0.43
2:BL:88:PRO:O	2:BL:89:LEU:C	2.56	0.43
3:BM:168:MET:HG2	3:BM:289:THR:HG22	2.01	0.43
3:BM:208:PHE:O	3:BM:210:TYR:N	2.51	0.43
3:BM:83:VAL:HG23	3:BM:84:PHE:N	2.34	0.43
3:BM:90:PHE:C	3:BM:92:TRP:N	2.72	0.43
5:BQ:51:ILE:CG1	5:BQ:52:PRO:CA	2.94	0.43
6:BX:46:LEU:HD23	6:BX:46:LEU:HA	1.80	0.43
6:B2:41:LEU:HD12	6:B2:42:TYR:N	2.34	0.43
4:AH:189:ASN:HD22	4:AH:189:ASN:N	2.16	0.43
2:BL:104:GLY:HA2	2:BL:107:ILE:HD12	2.00	0.43
6:BG:38:LEU:O	6:BG:38:LEU:HD23	2.17	0.43
1:AC:184:ASN:ND2	3:AM:96:GLU:HG2	2.34	0.43
5:A1:36:HIS:NE2	9:A2:101:BCL:HMD1	2.30	0.43
9:A3:103:BCL:CED	6:A4:32:VAL:HA	2.48	0.43
14:A5:103:CRT:H131	14:A5:103:CRT:H15	1.89	0.43
5:A5:44:LEU:C	5:A5:46:TRP:N	2.72	0.43
5:A5:4:MET:HG3	6:A8:27:ALA:HB2	1.90	0.43
5:A9:44:LEU:N	5:A9:44:LEU:CD1	2.82	0.43
4:AH:17:TRP:O	4:AH:18:ALA:O	2.37	0.43
4:AH:29:TYR:CD1	4:AH:30:LEU:N	2.87	0.43
4:AH:31:ARG:HD2	15:AH:301:PEF:O4	2.19	0.43
4:AH:48:ARG:HB3	15:AH:301:PEF:H42	2.00	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AH:94:PRO:HG2	6:A0:8:GLY:HA3	1.99	0.43
6:AJ:45:TRP:O	6:AJ:46:LEU:CB	2.64	0.43
9:AK:102:BCL:HMD2	9:AN:101:BCL:C4C	2.48	0.43
5:AK:52:PRO:HB2	5:AK:55:TYR:HD1	1.82	0.43
2:AL:192:ASN:C	2:AL:194:LEU:H	2.23	0.43
3:AM:226:VAL:O	3:AM:226:VAL:HG13	2.18	0.43
15:AM:409:PEF:H52	5:AQ:19:ARG:NH2	2.33	0.43
5:AO:5:ASN:ND2	5:AO:8:LEU:HD21	2.32	0.43
5:AO:43:ASP:O	5:AQ:48:ASP:HB3	2.19	0.43
5:AS:13:LEU:HD21	6:AT:10:THR:O	2.19	0.43
5:AU:22:VAL:CG1	5:AU:23:SER:N	2.79	0.43
5:AU:9:TYR:N	6:AV:18:HIS:CE1	2.87	0.43
5:AW:12:TRP:CZ2	6:AX:21:PHE:CD1	3.06	0.43
5:AW:5:ASN:HA	5:AW:8:LEU:CD1	2.33	0.43
6:B0:17:PHE:HA	6:B0:20:ILE:HG22	2.01	0.43
5:B1:35:ILE:O	5:B1:39:VAL:HG12	2.18	0.43
5:B3:14:ILE:CD1	6:B6:17:PHE:CE2	2.96	0.43
5:B7:41:SER:OG	5:B7:42:THR:N	2.51	0.43
1:BC:129:ARG:NH1	1:BC:132:GLU:HB2	2.33	0.43
1:BC:245:VAL:HG21	1:BC:249:PHE:CD1	2.54	0.43
6:BJ:29:PHE:CD1	6:BJ:29:PHE:N	2.87	0.43
5:BK:19:ARG:HG3	5:BK:20:VAL:N	2.31	0.43
2:BL:170:GLY:O	2:BL:176:PHE:HD2	2.02	0.43
2:BL:184:LEU:O	2:BL:187:SER:HB3	2.18	0.43
3:BM:136:ARG:CZ	3:BM:136:ARG:HA	2.49	0.43
3:BM:196:LEU:C	3:BM:198:TYR:H	2.22	0.43
9:BO:102:BCL:H193	9:BO:102:BCL:H13	2.00	0.43
5:BS:27:PHE:CD1	5:BU:29:ILE:HD11	2.54	0.43
6:BT:10:THR:C	6:BT:13:GLU:OE2	2.56	0.43
1:AC:148:THR:N	1:AC:322:GLN:NE2	2.67	0.43
1:AC:53:ILE:CG1	1:AC:319:TYR:CZ	3.00	0.43
5:BA:22:VAL:C	5:BA:24:ILE:N	2.72	0.43
5:AD:9:TYR:CZ	6:AE:11:ASP:HB3	2.54	0.43
5:AD:9:TYR:OH	6:AE:11:ASP:HB3	2.18	0.43
6:AE:9:LEU:HB3	6:AE:13:GLU:HG2	2.01	0.43
3:AM:231:GLY:O	3:AM:262:MET:HE3	2.19	0.43
14:A1:103:CRT:C40	5:A3:38:ILE:HD12	2.48	0.42
6:A2:29:PHE:CD1	9:A2:101:BCL:H11	2.54	0.42
9:A3:103:BCL:H172	9:A3:103:BCL:H111	2.01	0.42
6:A8:18:HIS:C	6:A8:18:HIS:CD2	2.92	0.42
5:A9:43:ASP:CG	5:A9:44:LEU:HD12	2.38	0.42
9:AA:101:BCL:HBB1	9:A0:102:BCL:CMC	2.49	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AC:190:VAL:HG12	1:AC:237:MET:CB	2.46	0.42
4:AH:19:PHE:C	4:AH:21:LEU:H	2.21	0.42
5:AK:29:ILE:O	5:AK:29:ILE:HG12	2.18	0.42
2:AL:164:ASP:O	2:AL:165:TRP:C	2.56	0.42
2:AL:46:GLY:C	2:AL:48:LEU:N	2.70	0.42
6:AN:23:GLN:HA	6:AN:26:TYR:HD2	1.84	0.42
6:AR:16:GLU:HB2	14:AR:102:CRT:H23	2.01	0.42
9:AR:101:BCL:HMA2	14:AR:102:CRT:H32	2.00	0.42
5:AW:10:LYS:NZ	14:AW:102:CRT:C1M	2.81	0.42
6:B2:21:PHE:CE1	14:B2:102:CRT:H19	2.52	0.42
6:B8:28:TRP:C	6:B8:30:GLY:N	2.70	0.42
5:BA:11:ILE:C	5:BA:13:LEU:H	2.20	0.42
1:BC:97:VAL:HG13	7:BC:502:HEM:CMB	2.48	0.42
5:BD:33:LEU:HA	5:BD:33:LEU:HD12	1.94	0.42
5:BK:22:VAL:O	5:BK:25:VAL:HB	2.18	0.42
2:BL:147:LEU:O	2:BL:262:PRO:HG3	2.19	0.42
3:BM:120:LEU:O	3:BM:123:THR:HB	2.19	0.42
3:BM:254:TRP:N	3:BM:254:TRP:HD1	2.17	0.42
3:BM:255:THR:HB	3:BM:256:MET:H	1.74	0.42
2:BL:164:ASP:OD2	3:BM:307:TYR:OH	2.36	0.42
9:BS:102:BCL:H112	9:BS:102:BCL:H61	2.01	0.42
14:BU:103:CRT:H241	14:BU:103:CRT:H26	1.90	0.42
5:BU:11:ILE:HA	14:BU:103:CRT:H21A	2.01	0.42
5:BU:35:ILE:CA	5:BU:38:ILE:HG22	2.48	0.42
5:BY:43:ASP:HA	5:B1:48:ASP:CB	2.40	0.42
6:BZ:45:TRP:CD2	9:BZ:101:BCL:H2C	2.54	0.42
5:AI:18:ARG:NH1	5:AI:18:ARG:CB	2.82	0.42
4:BH:135:PRO:C	4:BH:137:ARG:H	2.21	0.42
5:A1:27:PHE:CE2	5:A3:29:ILE:CD1	3.02	0.42
6:BT:40:TRP:CE3	6:BT:44:PRO:HA	2.54	0.42
1:AC:33:ILE:CD1	1:AC:33:ILE:H	2.30	0.42
1:BC:115:ASN:OD1	1:BC:115:ASN:N	2.51	0.42
14:A1:103:CRT:C14	5:A3:21:LEU:HD11	2.49	0.42
5:A1:4:MET:CE	6:A4:27:ALA:HB3	2.50	0.42
6:A6:29:PHE:CZ	9:A6:101:BCL:H42	2.54	0.42
5:A5:28:GLN:NE2	14:A7:102:CRT:H25	2.34	0.42
5:AA:47:LEU:H	5:AA:47:LEU:HD22	1.84	0.42
1:AC:246:GLY:O	1:AC:248:THR:N	2.52	0.42
9:AE:101:BCL:HBB3	9:AE:101:BCL:HMB1	2.00	0.42
5:AF:44:LEU:HD12	5:AF:46:TRP:HE3	1.84	0.42
6:AG:21:PHE:HD1	6:AG:22:MET:HA	1.81	0.42
4:AH:69:LEU:HD23	4:AH:70:PRO:CD	2.46	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:18:ILE:O	2:AL:18:ILE:HG22	2.18	0.42
2:AL:270:GLU:O	2:AL:272:TRP:N	2.52	0.42
3:AM:98:PRO:CB	3:AM:171:TRP:HB3	2.49	0.42
3:AM:250:LEU:HG	3:AM:254:TRP:NE1	2.26	0.42
3:AM:265:ILE:C	3:AM:267:ARG:H	2.21	0.42
9:AL:303:BCL:CMB	9:AM:402:BCL:H171	2.49	0.42
3:AM:7:ILE:HG22	3:AM:8:PHE:CD2	2.54	0.42
14:AP:102:CRT:H341	14:AP:102:CRT:H36	1.92	0.42
5:AQ:50:ASN:HA	5:AS:60:LYS:HA	2.01	0.42
9:AS:103:BCL:HMB1	9:AS:103:BCL:HBB2	2.00	0.42
5:AS:10:LYS:HB3	14:AS:104:CRT:C1	2.49	0.42
9:AY:102:BCL:O1D	9:AY:102:BCL:C2A	2.66	0.42
5:B1:12:TRP:CD1	6:B2:18:HIS:HA	2.54	0.42
6:B2:36:HIS:HE1	9:B2:101:BCL:C4D	2.31	0.42
5:B3:16:ASP:O	5:B3:20:VAL:HG22	2.19	0.42
14:B2:102:CRT:H2M2	5:B3:40:LEU:HD11	1.95	0.42
1:BC:195:LEU:CB	1:BC:196:PRO:CD	2.96	0.42
9:BF:102:BCL:H111	9:BF:102:BCL:H192	2.00	0.42
5:BF:13:LEU:CD1	14:BF:103:CRT:H1M1	2.25	0.42
6:BJ:18:HIS:O	6:BJ:22:MET:HB2	2.19	0.42
6:BJ:40:TRP:HA	6:BJ:44:PRO:HA	2.00	0.42
2:BL:148:MET:HB3	2:BL:153:HIS:CE1	2.53	0.42
2:BL:246:ALA:O	2:BL:248:SER:N	2.52	0.42
2:BL:188:PHE:HD2	2:BL:249:ALA:CA	2.33	0.42
3:BM:265:ILE:HG22	3:BM:266:HIS:H	1.84	0.42
9:BO:102:BCL:C1A	9:BO:102:BCL:O1D	2.64	0.42
5:BO:9:TYR:CZ	5:BO:10:LYS:HD3	2.54	0.42
6:BV:29:PHE:O	6:BV:33:VAL:HB	2.19	0.42
6:BV:46:LEU:HD13	6:BX:42:TYR:CZ	2.54	0.42
9:BZ:101:BCL:CGD	9:BZ:101:BCL:H2A	2.48	0.42
5:BY:31:LEU:HD21	9:BZ:101:BCL:HMA2	2.00	0.42
6:BP:7:THR:OG1	6:BP:8:GLY:N	2.50	0.42
5:BK:2:PHE:CD1	5:BK:2:PHE:O	2.73	0.42
5:AK:18:ARG:HG2	5:AK:18:ARG:NH1	2.34	0.42
3:AM:301:HIS:CE1	4:AH:8:TYR:CD2	3.06	0.42
5:BA:2:PHE:CB	5:BA:5:ASN:HD21	2.32	0.42
6:AT:40:TRP:CE3	6:AT:40:TRP:O	2.72	0.42
5:BO:54:SER:O	5:BO:58:LEU:N	2.40	0.42
9:A0:102:BCL:H13	9:A0:102:BCL:HMB2	2.01	0.42
6:A2:20:ILE:HG23	6:A2:21:PHE:N	2.33	0.42
6:A2:40:TRP:HA	6:A2:40:TRP:CE3	2.54	0.42
5:A5:5:ASN:OD1	5:A5:8:LEU:HD12	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:A6:101:BCL:H12	9:A6:101:BCL:CGA	2.46	0.42
1:AC:111:HIS:CE1	1:AC:124:LYS:HE2	2.52	0.42
1:AC:293:ALA:C	1:AC:295:ARG:N	2.72	0.42
5:AD:43:ASP:O	5:AD:45:ASN:N	2.52	0.42
9:AG:101:BCL:H41	9:AI:102:BCL:HMA2	1.99	0.42
6:AG:40:TRP:HH2	6:AG:46:LEU:HD12	1.84	0.42
6:AJ:29:PHE:CE1	9:AJ:101:BCL:H11	2.53	0.42
2:AL:181:ALA:HB3	2:AL:256:CYS:SG	2.58	0.42
2:AL:196:LEU:C	2:AL:198:MET:N	2.73	0.42
2:AL:203:ILE:HA	2:AL:206:VAL:HG22	2.00	0.42
3:AM:64:GLY:C	3:AM:66:VAL:H	2.22	0.42
5:AO:27:PHE:HE2	5:AQ:29:ILE:HD12	1.84	0.42
6:AP:31:LEU:HA	6:AP:34:ILE:CG2	2.49	0.42
5:AS:8:LEU:CB	6:AT:18:HIS:CE1	3.02	0.42
5:AU:12:TRP:CD1	6:AV:18:HIS:HB2	2.54	0.42
5:AU:13:LEU:O	6:AV:7:THR:HA	2.19	0.42
5:AW:10:LYS:HD3	14:AW:102:CRT:H23	2.01	0.42
5:AW:27:PHE:CE1	5:AW:31:LEU:HD22	2.54	0.42
5:AY:50:ASN:ND2	5:AY:51:ILE:HG12	2.33	0.42
6:B0:21:PHE:HB2	14:B0:101:CRT:H14	1.93	0.42
6:B0:27:ALA:O	6:B0:31:LEU:HG	2.18	0.42
5:B1:9:TYR:HB2	6:B2:15:LYS:HA	2.02	0.42
9:B5:102:BCL:H92	6:B6:28:TRP:CE3	2.54	0.42
9:B7:103:BCL:CMD	6:B8:36:HIS:HD2	2.31	0.42
5:BA:27:PHE:C	5:BA:30:VAL:HG12	2.40	0.42
1:BC:126:VAL:O	1:BC:129:ARG:N	2.53	0.42
1:BC:135:ARG:HG2	1:BC:330:LEU:CA	2.49	0.42
1:BC:200:LEU:HG	1:BC:204:LEU:HD12	2.01	0.42
6:BG:10:THR:CG2	6:BG:11:ASP:N	2.82	0.42
4:BH:248:LEU:HD23	4:BH:248:LEU:O	2.19	0.42
4:BH:63:ASP:O	4:BH:79:PRO:HD2	2.19	0.42
5:BK:16:ASP:HA	5:BK:17:PRO:HD3	1.85	0.42
2:BL:138:LEU:O	2:BL:142:PHE:N	2.52	0.42
2:BL:151:TRP:O	2:BL:153:HIS:N	2.52	0.42
2:BL:196:LEU:HB2	3:BM:216:PHE:CG	2.54	0.42
2:BL:55:THR:HA	2:BL:68:TYR:HE1	1.83	0.42
3:BM:124:LEU:O	3:BM:127:LEU:N	2.52	0.42
3:BM:33:ARG:O	3:BM:34:PRO:O	2.38	0.42
5:BQ:38:ILE:O	5:BQ:42:THR:CG2	2.67	0.42
5:BU:38:ILE:CD1	14:BV:102:CRT:C40	2.98	0.42
4:BH:178:GLN:NE2	4:BH:180:ARG:CZ	2.82	0.42
5:AS:55:TYR:HD1	5:AS:56:GLN:N	2.17	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:20:GLY:C	2:AL:22:LEU:N	2.71	0.42
1:AC:138:ASN:ND2	1:AC:149:GLY:HA3	2.34	0.42
1:AC:142:LYS:HE3	1:AC:147:GLU:OE2	2.19	0.42
4:BH:146:GLU:CD	4:BH:146:GLU:H	2.22	0.42
4:BH:171:TRP:CZ3	4:BH:231:VAL:HG12	2.54	0.42
6:B0:10:THR:H	6:B0:13:GLU:HG2	1.83	0.42
5:AY:18:ARG:HG2	5:AY:18:ARG:HH11	1.84	0.42
6:A2:38:LEU:HD23	6:A2:38:LEU:O	2.20	0.42
9:A3:103:BCL:C3D	9:A3:104:BCL:C3D	2.97	0.42
9:A3:103:BCL:H2	6:A4:28:TRP:CH2	2.54	0.42
5:A3:19:ARG:HH21	5:A3:19:ARG:CG	2.32	0.42
5:A3:38:ILE:HG23	5:A3:39:VAL:HG23	2.01	0.42
5:A3:5:ASN:HA	5:A3:8:LEU:HD12	2.02	0.42
6:A6:31:LEU:O	6:A6:34:ILE:HG23	2.19	0.42
6:A8:26:TYR:O	6:A8:30:GLY:N	2.49	0.42
6:A8:37:LEU:O	6:A8:41:LEU:HG	2.20	0.42
5:A7:43:ASP:OD2	5:A9:47:LEU:HD13	2.20	0.42
5:AA:24:ILE:HA	5:AA:27:PHE:HB3	2.01	0.42
9:AF:102:BCL:H8	9:AF:102:BCL:H121	1.92	0.42
5:AF:26:ALA:O	5:AF:27:PHE:C	2.58	0.42
4:AH:142:PHE:CD2	4:AH:172:VAL:HG21	2.55	0.42
4:AH:28:ILE:O	4:AH:31:ARG:HB2	2.19	0.42
9:AJ:101:BCL:HBA1	9:AJ:101:BCL:H3A	1.70	0.42
6:AJ:17:PHE:O	6:AJ:20:ILE:CG2	2.61	0.42
2:AL:178:TYR:O	2:AL:272:TRP:NE1	2.52	0.42
2:AL:18:ILE:HG23	4:AH:259:LEU:CB	2.50	0.42
5:AK:12:TRP:CE2	6:AN:17:PHE:HD2	2.37	0.42
5:AO:11:ILE:HG12	14:AR:102:CRT:C8	2.46	0.42
6:AV:32:VAL:HG11	9:AV:102:BCL:CBA	2.48	0.42
9:B2:101:BCL:HBB2	9:B2:101:BCL:HMB1	1.99	0.42
5:B3:44:LEU:HD13	5:B3:46:TRP:CE3	2.54	0.42
5:B5:32:GLY:HA2	9:B5:102:BCL:O1A	2.18	0.42
9:B6:101:BCL:H3A	9:B6:101:BCL:HBA1	1.66	0.42
9:B6:101:BCL:NB	9:B7:103:BCL:HMB3	2.34	0.42
1:BC:269:ALA:HB2	7:BC:504:HEM:CMA	2.49	0.42
1:BC:270:TRP:CG	3:BM:316:PRO:HG3	2.55	0.42
9:BD:102:BCL:HAC2	9:BE:101:BCL:CBC	2.49	0.42
4:BH:196:PRO:O	4:BH:197:ILE:C	2.57	0.42
4:BH:159:LEU:HB3	4:BH:212:ASP:HA	2.01	0.42
4:BH:27:ILE:CG2	4:BH:28:ILE:N	2.83	0.42
5:BI:46:TRP:NE1	5:BI:47:LEU:CD1	2.81	0.42
2:BL:109:TRP:HZ3	13:BM:405:MQ8:H342	1.84	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:7:GLU:CD	2:BL:11:ARG:HH21	2.22	0.42
2:BL:99:THR:HG23	2:BL:137:TYR:OH	2.19	0.42
2:BL:184:LEU:HD12	2:BL:184:LEU:N	2.34	0.42
2:BL:268:TRP:C	2:BL:270:GLU:N	2.73	0.42
3:BM:150:PHE:CA	10:BM:403:BPH:HMD3	2.49	0.42
14:BW:103:CRT:H16	6:BZ:21:PHE:CE2	2.54	0.42
5:BW:33:LEU:O	5:BW:37:MET:HB2	2.20	0.42
5:BW:43:ASP:OD1	5:BW:44:LEU:N	2.53	0.42
6:BZ:18:HIS:O	6:BZ:22:MET:HB2	2.19	0.42
3:AM:12:GLN:C	4:AH:145:ALA:HB2	2.40	0.42
1:AC:90:PHE:HD1	1:AC:91:THR:N	2.17	0.42
2:AL:159:ILE:N	2:AL:159:ILE:HD12	2.34	0.42
4:BH:219:PHE:HA	4:BH:222:VAL:HG23	2.00	0.42
6:AX:13:GLU:HG2	6:AX:14:ALA:N	2.34	0.42
6:BG:8:GLY:O	6:BG:9:LEU:CD2	2.68	0.42
5:A5:9:TYR:CD1	5:A5:9:TYR:C	2.92	0.42
5:A9:12:TRP:CE2	6:A0:17:PHE:CE1	3.07	0.42
5:A9:31:LEU:O	5:A9:35:ILE:HG12	2.20	0.42
5:AA:8:LEU:O	5:AA:11:ILE:HG22	2.19	0.42
9:AB:101:BCL:HBA1	9:AB:101:BCL:H3A	1.76	0.42
1:AC:263:THR:O	1:AC:264:PRO:C	2.58	0.42
9:AD:102:BCL:CAC	9:AE:101:BCL:HBC3	2.49	0.42
5:AF:11:ILE:HD12	5:AF:14:ILE:CG1	2.50	0.42
4:AH:142:PHE:HZ	4:AH:173:ASP:O	2.02	0.42
4:AH:36:ARG:HE	4:AH:65:LYS:CD	2.31	0.42
4:AH:39:TYR:CD1	4:AH:40:PRO:HA	2.54	0.42
4:AH:45:ARG:CA	4:AH:96:PRO:HB3	2.48	0.42
2:AL:36:GLY:HA2	2:AL:112:ARG:HD3	2.01	0.42
3:AM:134:TYR:CE2	3:AM:144:GLN:HG3	2.55	0.42
3:AM:185:TRP:CH2	3:AM:189:PHE:CD1	3.07	0.42
3:AM:47:GLN:HG2	3:AM:48:ILE:N	2.35	0.42
3:AM:162:PHE:CE1	5:AO:37:MET:SD	3.13	0.42
5:AQ:35:ILE:O	5:AQ:38:ILE:HG22	2.19	0.42
14:AR:102:CRT:H391	5:AS:36:HIS:CG	2.54	0.42
5:AU:14:ILE:CB	14:AX:102:CRT:H82	2.49	0.42
14:B0:101:CRT:H32	9:B0:102:BCL:HMA2	2.00	0.42
5:BA:45:ASN:O	5:BA:49:ASP:HB3	2.19	0.42
1:BC:265:LYS:O	1:BC:266:ARG:C	2.56	0.42
1:BC:266:ARG:HG3	7:BC:503:HEM:C2D	2.54	0.42
5:BI:12:TRP:CH2	6:BJ:17:PHE:CE1	3.08	0.42
5:BK:11:ILE:HG12	14:BP:102:CRT:C8	2.34	0.42
2:BL:113:GLU:OE1	2:BL:127:PRO:HG3	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:181:ALA:C	2:BL:183:MET:N	2.73	0.42
2:BL:252:TRP:CZ2	11:BL:304:UQ8:H30B	2.54	0.42
6:BP:15:LYS:O	6:BP:16:GLU:C	2.58	0.42
9:BQ:103:BCL:ND	9:BQ:104:BCL:CMD	2.81	0.42
5:BQ:42:THR:HG21	5:BS:47:LEU:HG	2.02	0.42
5:BY:44:LEU:HD12	5:BY:44:LEU:O	2.20	0.42
3:BM:14:ARG:NH1	4:BH:145:ALA:HA	2.35	0.42
4:BH:167:VAL:HA	4:BH:183:GLU:O	2.19	0.42
5:BD:9:TYR:C	5:BD:9:TYR:CD1	2.92	0.42
5:AD:9:TYR:CD1	5:AD:9:TYR:C	2.93	0.42
1:BC:314:VAL:HG12	1:BC:315:ASN:H	1.85	0.42
5:B9:16:ASP:OD1	5:B9:18:ARG:N	2.52	0.42
6:BX:38:LEU:CD2	6:BX:38:LEU:C	2.88	0.42
14:A1:103:CRT:H181	14:A1:103:CRT:H20	1.89	0.42
5:A1:43:ASP:HB2	5:A3:47:LEU:HD13	2.01	0.42
5:A3:43:ASP:OD1	5:A3:44:LEU:N	2.52	0.42
5:A3:14:ILE:CG2	5:A5:17:PRO:HB2	2.49	0.42
5:A7:28:GLN:O	9:A8:101:BCL:HED1	2.19	0.42
5:A7:9:TYR:CD1	5:A7:9:TYR:C	2.92	0.42
5:AA:29:ILE:HD11	14:A0:101:CRT:C34	2.45	0.42
1:AC:176:SER:CB	5:AS:42:THR:HA	2.50	0.42
1:AC:236:MET:HE3	7:AC:503:HEM:C4D	2.55	0.42
5:AF:24:ILE:C	5:AF:26:ALA:N	2.73	0.42
4:AH:47:GLU:HG3	5:AA:19:ARG:HG3	2.00	0.42
5:AI:36:HIS:O	5:AI:40:LEU:CD1	2.68	0.42
5:AI:45:ASN:O	5:AI:49:ASP:CG	2.58	0.42
1:AC:21:LEU:HG	2:AL:259:ILE:HG21	2.00	0.42
2:AL:38:VAL:CG2	2:AL:39:GLY:H	2.30	0.42
9:AM:401:BCL:HMB1	9:AM:401:BCL:HBB3	2.02	0.42
3:AM:84:PHE:CE2	5:AW:37:MET:HA	2.54	0.42
5:AO:45:ASN:HB3	5:AO:48:ASP:OD1	2.20	0.42
6:AP:21:PHE:CE1	14:AP:102:CRT:H19	2.55	0.42
5:AS:31:LEU:HG	9:AT:101:BCL:HED3	2.01	0.42
5:B7:17:PRO:HG2	5:B7:18:ARG:H	1.85	0.42
6:BB:20:ILE:HG12	5:B9:7:ASN:HB3	2.01	0.42
5:BA:35:ILE:O	5:BA:37:MET:N	2.53	0.42
6:BB:18:HIS:C	6:BB:18:HIS:ND1	2.72	0.42
6:BG:32:VAL:CG1	9:BG:101:BCL:HBA2	2.29	0.42
5:BI:29:ILE:HG23	5:BI:30:VAL:N	2.33	0.42
9:BG:101:BCL:C20	6:BJ:38:LEU:HD21	2.49	0.42
2:BL:108:SER:O	2:BL:111:LEU:N	2.53	0.42
2:BL:111:LEU:O	2:BL:114:VAL:N	2.53	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:181:ALA:CB	2:BL:256:CYS:HA	2.48	0.42
2:BL:266:ARG:NH1	2:BL:266:ARG:HG3	2.35	0.42
3:BM:152:ALA:O	3:BM:277:VAL:HB	2.19	0.42
3:BM:221:ALA:O	3:BM:225:SER:N	2.36	0.42
6:BN:34:ILE:HD13	6:BN:34:ILE:O	2.19	0.42
5:BO:7:ASN:HB3	6:BR:20:ILE:CD1	2.39	0.42
9:BM:402:BCL:C14	15:BQ:101:PEF:H442	2.39	0.42
5:BS:46:TRP:CZ3	9:BS:102:BCL:CBC	3.03	0.42
9:BU:102:BCL:C3D	9:BV:101:BCL:CMD	2.98	0.42
6:BV:45:TRP:CD1	6:BV:46:LEU:N	2.88	0.42
5:BW:46:TRP:CZ2	9:BW:102:BCL:H2C	2.54	0.42
6:BX:29:PHE:CE2	9:BX:101:BCL:H43	2.54	0.42
5:AF:3:THR:O	5:AF:4:MET:HB2	2.18	0.42
3:BM:299:VAL:HB	3:BM:304:ALA:CB	2.36	0.42
2:AL:56:ILE:O	2:AL:66:GLN:HG3	2.19	0.42
5:BD:51:ILE:HG22	5:BD:52:PRO:CA	2.50	0.42
1:BC:82:LEU:HD13	1:BC:93:THR:HG21	2.01	0.42
4:BH:215:LYS:H	4:BH:218:HIS:CD2	2.32	0.42
3:BM:66:VAL:HG11	3:BM:121:PHE:CD2	2.53	0.42
3:AM:310:VAL:O	3:AM:310:VAL:HG12	2.19	0.42
3:AM:230:GLY:CA	17:AM:502:HOH:O	2.67	0.42
9:A3:104:BCL:H2A	9:A3:104:BCL:CGD	2.50	0.42
5:A5:29:ILE:C	5:A5:29:ILE:HD13	2.39	0.42
5:A5:53:VAL:HA	5:A5:56:GLN:HG2	2.01	0.42
6:A6:33:VAL:O	6:A6:37:LEU:HB2	2.20	0.42
9:AA:101:BCL:HBC2	9:AB:101:BCL:CMD	2.50	0.42
5:AD:27:PHE:O	5:AD:30:VAL:HG12	2.20	0.42
5:AF:9:TYR:HA	6:AG:18:HIS:CG	2.55	0.42
6:AG:28:TRP:O	6:AG:30:GLY:N	2.52	0.42
3:AM:268:TRP:CG	4:AH:30:LEU:HD13	2.54	0.42
4:AH:60:ASP:O	4:AH:61:LEU:C	2.57	0.42
5:AI:30:VAL:HG13	5:AI:31:LEU:N	2.35	0.42
2:AL:118:ARG:O	2:AL:119:LYS:C	2.58	0.42
2:AL:129:ALA:CB	2:AL:247:LEU:HD11	2.50	0.42
2:AL:170:GLY:HA3	9:AL:301:BCL:HBC3	2.02	0.42
2:AL:173:PHE:C	2:AL:174:LEU:HD12	2.40	0.42
2:AL:181:ALA:O	2:AL:182:HIS:C	2.58	0.42
3:AM:122:LEU:O	3:AM:126:ILE:HD12	2.19	0.42
2:AL:123:GLY:HA2	3:AM:228:ARG:NH2	2.34	0.42
3:AM:260:VAL:HG23	3:AM:261:THR:N	2.34	0.42
3:AM:203:MET:HB2	9:AM:401:BCL:CED	2.50	0.42
3:AM:41:GLY:HA2	3:AM:44:GLY:O	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AO:9:TYR:HB2	6:AP:18:HIS:CG	2.54	0.42
6:AR:45:TRP:CE3	9:AR:101:BCL:H2C	2.54	0.42
6:AT:10:THR:C	6:AT:13:GLU:OE2	2.58	0.42
6:AX:28:TRP:CE3	6:AX:31:LEU:HD12	2.53	0.42
6:B2:31:LEU:O	6:B2:34:ILE:HG22	2.19	0.42
5:B3:46:TRP:CZ3	9:B3:102:BCL:CAC	3.02	0.42
6:B8:22:MET:O	6:B8:26:TYR:CD2	2.71	0.42
1:BC:196:PRO:CG	1:BC:231:TRP:CD1	3.02	0.42
1:BC:269:ALA:O	1:BC:273:ILE:CG1	2.65	0.42
5:BF:12:TRP:CA	5:BF:12:TRP:CE3	3.03	0.42
6:BG:28:TRP:O	6:BG:30:GLY:N	2.52	0.42
4:BH:35:LYS:NZ	4:BH:57:GLY:CA	2.73	0.42
6:BJ:45:TRP:O	6:BJ:46:LEU:CB	2.66	0.42
2:BL:266:ARG:CG	2:BL:266:ARG:HH11	2.33	0.42
3:BM:126:ILE:HD12	3:BM:157:TYR:CE2	2.54	0.42
3:BM:179:ILE:CD1	3:BM:179:ILE:N	2.68	0.42
3:BM:205:SER:HB2	9:BM:402:BCL:CMA	2.50	0.42
5:BO:36:HIS:O	5:BO:40:LEU:HB3	2.20	0.42
6:BP:12:ASP:O	6:BP:16:GLU:HG3	2.19	0.42
5:BQ:50:ASN:HB3	5:BS:56:GLN:CG	2.49	0.42
5:BU:28:GLN:O	9:BU:102:BCL:H11	2.18	0.42
5:BY:34:LEU:O	5:BY:37:MET:HB2	2.19	0.42
3:AM:105:ARG:HA	5:AO:42:THR:CG2	2.28	0.42
5:AK:19:ARG:HG3	5:AK:20:VAL:N	2.35	0.42
6:B4:45:TRP:O	6:B4:46:LEU:CG	2.67	0.42
3:BM:35:ILE:CG2	3:BM:36:PHE:N	2.82	0.42
1:BC:154:THR:HG22	1:BC:155:CYS:N	2.35	0.42
1:BC:155:CYS:O	1:BC:162:PRO:CB	2.66	0.42
3:AM:317:TYR:CD1	3:AM:317:TYR:N	2.88	0.42
1:BC:112:VAL:O	1:BC:114:GLY:N	2.52	0.42
5:A5:39:VAL:C	5:A5:41:SER:N	2.72	0.42
5:AA:20:VAL:HA	5:AA:23:SER:HB3	2.00	0.42
1:BC:59:VAL:O	1:BC:59:VAL:HG23	2.20	0.42
6:A6:17:PHE:CD2	14:A7:102:CRT:H6	2.54	0.42
14:A5:103:CRT:C30	5:A7:31:LEU:HD21	2.49	0.42
9:AA:101:BCL:HMB3	9:A0:102:BCL:NB	2.31	0.42
6:AB:8:GLY:C	6:AB:9:LEU:HG	2.40	0.42
14:AB:102:CRT:H342	9:AD:102:BCL:CGA	2.50	0.42
4:AH:130:LEU:HG	4:AH:131:PRO:CD	2.40	0.42
4:AH:35:LYS:HZ1	4:AH:57:GLY:HA3	1.79	0.42
9:AJ:101:BCL:HBB3	9:AK:102:BCL:C4B	2.50	0.42
6:AJ:21:PHE:O	6:AJ:22:MET:C	2.58	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:273:ASN:HA	2:AL:276:LEU:CD2	2.34	0.42
3:AM:234:GLU:OE1	3:AM:266:HIS:HE1	1.93	0.42
9:AP:101:BCL:HBB1	9:AQ:102:BCL:HMC3	2.02	0.42
6:AP:17:PHE:HA	6:AP:20:ILE:CG2	2.50	0.42
6:AT:45:TRP:CE3	9:AT:101:BCL:HAC2	2.54	0.42
5:AW:27:PHE:HE1	5:AW:31:LEU:HD22	1.84	0.42
6:B6:31:LEU:O	6:B6:34:ILE:HG23	2.20	0.42
14:B5:103:CRT:H401	5:B7:38:ILE:HG21	1.99	0.42
6:B8:18:HIS:C	6:B8:18:HIS:CD2	2.92	0.42
6:B8:23:GLN:HE21	6:B8:23:GLN:HB2	1.63	0.42
5:BA:40:LEU:O	5:BA:40:LEU:HD12	2.19	0.42
6:BB:18:HIS:C	6:BB:18:HIS:HD1	2.21	0.42
1:BC:141:TRP:CZ3	1:BC:275:HIS:HA	2.55	0.42
1:BC:35:TYR:O	1:BC:36:ARG:C	2.58	0.42
9:BD:102:BCL:HBB2	9:BD:102:BCL:HMB1	1.99	0.42
5:BF:9:TYR:CZ	5:BF:10:LYS:HD3	2.48	0.42
5:BI:26:ALA:O	5:BI:27:PHE:C	2.56	0.42
5:BK:12:TRP:CE3	5:BK:12:TRP:CA	3.02	0.42
5:BK:4:MET:O	5:BK:8:LEU:HG	2.19	0.42
2:BL:155:PHE:HB3	2:BL:165:TRP:CE2	2.54	0.42
11:BL:304:UQ8:H25	11:BL:304:UQ8:H22	1.80	0.42
3:BM:264:SER:O	3:BM:267:ARG:HB2	2.20	0.42
3:BM:52:TYR:CD2	3:BM:136:ARG:NE	2.82	0.42
9:BK:102:BCL:C3D	9:BN:101:BCL:C2D	2.98	0.42
6:BN:32:VAL:CG2	9:BN:101:BCL:HBA2	2.50	0.42
5:BQ:43:ASP:CA	5:BS:47:LEU:HB3	2.50	0.42
9:BT:101:BCL:CHB	9:BU:102:BCL:HMB3	2.49	0.42
9:BW:102:BCL:HMD2	6:BX:36:HIS:HD2	1.82	0.42
6:BZ:40:TRP:HB2	6:BZ:45:TRP:CZ3	2.54	0.42
1:AC:165:ALA:HB1	1:AC:303:LEU:CB	2.22	0.42
6:B0:42:TYR:CE2	6:B0:43:ARG:HD2	2.54	0.42
1:AC:138:ASN:O	1:AC:142:LYS:HG2	2.20	0.42
6:BR:10:THR:CG2	6:BR:11:ASP:N	2.82	0.42
6:AE:33:VAL:HG22	6:AE:37:LEU:HD23	2.02	0.42
4:AH:121:LYS:HB2	4:BH:122:HIS:CD2	2.55	0.42
1:BC:316:LYS:O	1:BC:317:PRO:O	2.37	0.42
2:AL:159:ILE:H	2:AL:159:ILE:HD12	1.84	0.42
2:BL:82:TYR:HA	2:BL:85:ARG:NE	2.33	0.42
5:BF:48:ASP:OD1	5:BF:48:ASP:N	2.52	0.42
5:A1:12:TRP:CD1	6:A2:18:HIS:CB	3.03	0.42
6:A2:41:LEU:C	6:A2:41:LEU:HD23	2.39	0.42
5:A3:56:GLN:HG2	5:A3:57:ALA:H	1.85	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:A4:46:LEU:HB2	5:A5:52:PRO:HD2	2.02	0.42
6:A8:45:TRP:CZ3	9:A8:101:BCL:HAC2	2.55	0.42
5:A9:46:TRP:CZ2	9:A9:102:BCL:H2C	2.55	0.42
2:AL:97:ILE:HG21	5:A9:37:MET:HE3	2.02	0.42
5:AA:44:LEU:HD12	5:AA:46:TRP:N	2.34	0.42
1:AC:264:PRO:O	1:AC:265:LYS:C	2.58	0.42
1:AC:313:ALA:C	1:AC:314:VAL:CG2	2.88	0.42
1:AC:317:PRO:O	1:AC:318:LEU:HB2	2.20	0.42
1:AC:153:TYR:CB	1:AC:323:MET:HE3	2.36	0.42
5:AF:28:GLN:CB	9:AF:102:BCL:C1	2.68	0.42
4:AH:173:ASP:OD1	4:AH:175:SER:N	2.31	0.42
4:AH:149:PRO:HG3	4:AH:204:LYS:HB3	2.02	0.42
5:AI:39:VAL:O	5:AI:43:ASP:CB	2.68	0.42
2:AL:116:ILE:HG22	2:AL:117:CYS:N	2.35	0.42
2:AL:142:PHE:CD1	2:AL:142:PHE:C	2.92	0.42
2:AL:221:GLU:C	2:AL:223:THR:N	2.73	0.42
2:AL:281:TRP:OXT	2:AL:281:TRP:HD1	2.02	0.42
2:AL:38:VAL:CG2	2:AL:39:GLY:N	2.82	0.42
3:AM:35:ILE:HD11	15:AM:409:PEF:H312	2.00	0.42
14:AM:406:CRT:H2M1	5:AO:41:SER:OG	2.20	0.42
9:AK:102:BCL:C4D	9:AN:101:BCL:HMD1	2.49	0.42
6:AV:20:ILE:HG23	6:AV:21:PHE:N	2.35	0.42
5:AY:10:LYS:HB3	14:A2:102:CRT:H23	2.01	0.42
6:B0:22:MET:O	6:B0:26:TYR:HD2	2.03	0.42
5:B3:17:PRO:O	5:B3:21:LEU:CB	2.67	0.42
9:B4:101:BCL:H3A	9:B4:101:BCL:HBA1	1.56	0.42
6:B6:33:VAL:O	6:B6:37:LEU:HB2	2.20	0.42
5:B9:43:ASP:CG	5:B9:44:LEU:HD12	2.40	0.42
5:BA:33:LEU:O	14:B0:101:CRT:H2M3	2.20	0.42
1:BC:132:GLU:O	1:BC:136:ALA:HB2	2.20	0.42
1:BC:20:LEU:CD2	1:BC:21:LEU:N	2.75	0.42
1:BC:236:MET:HG3	7:BC:503:HEM:CHB	2.49	0.42
5:BF:35:ILE:O	5:BF:36:HIS:C	2.58	0.42
9:BG:101:BCL:NB	9:BI:102:BCL:HMB3	2.34	0.42
5:BI:39:VAL:C	5:BI:41:SER:H	2.22	0.42
2:BL:225:PHE:O	2:BL:229:VAL:HG22	2.19	0.42
2:BL:44:LEU:HD22	2:BL:48:LEU:HD12	2.01	0.42
2:BL:75:ILE:HD12	2:BL:94:LEU:HD22	2.01	0.42
3:BM:205:SER:HB2	9:BM:402:BCL:HMA2	2.02	0.42
3:BM:214:LEU:O	3:BM:218:MET:CG	2.67	0.42
9:BM:402:BCL:H141	9:BM:402:BCL:H161	1.85	0.42
3:BM:161:GLY:HA3	14:BM:406:CRT:H291	2.00	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:BM:84:PHE:CE2	5:BW:37:MET:HG2	2.54	0.42
5:BY:11:ILE:CG2	5:BY:15:LEU:HD12	2.50	0.42
6:BZ:38:LEU:C	6:BZ:38:LEU:HD23	2.38	0.42
5:BO:17:PRO:HG2	5:BO:18:ARG:H	1.85	0.42
2:AL:147:LEU:CD1	2:AL:147:LEU:N	2.83	0.42
2:AL:63:SER:C	2:AL:65:LEU:N	2.73	0.42
1:BC:53:ILE:HG22	1:BC:54:GLN:N	2.35	0.42
1:BC:306:SER:O	1:BC:309:THR:N	2.52	0.42
2:AL:82:TYR:HB3	2:AL:85:ARG:CG	2.50	0.42
1:AC:116:TRP:CD1	1:AC:116:TRP:N	2.87	0.42
5:A1:28:GLN:CB	9:A1:102:BCL:C2	2.94	0.42
5:A1:12:TRP:HZ2	6:A2:21:PHE:CE2	2.25	0.42
9:A6:101:BCL:HMB3	9:A7:103:BCL:CHB	2.50	0.42
5:A7:35:ILE:O	5:A7:39:VAL:HG23	2.20	0.42
9:AA:101:BCL:CAC	9:AB:101:BCL:HBC3	2.50	0.42
14:AB:102:CRT:H10	14:AB:102:CRT:H81	1.88	0.42
14:AB:102:CRT:H2M2	5:AD:37:MET:HE2	2.01	0.42
1:AC:295:ARG:HD2	7:AC:502:HEM:CGD	2.50	0.42
5:AF:44:LEU:CD1	5:AF:44:LEU:O	2.62	0.42
3:AM:268:TRP:HZ2	4:AH:34:ASP:OD2	2.02	0.42
2:AL:13:ARG:CA	4:AH:99:PRO:HB2	2.50	0.42
2:AL:168:ASN:C	2:AL:170:GLY:H	2.23	0.42
2:AL:174:LEU:CD1	2:AL:174:LEU:N	2.83	0.42
2:AL:3:MET:O	4:AH:41:LEU:HG	2.19	0.42
3:AM:234:GLU:O	3:AM:237:GLN:N	2.53	0.42
2:AL:226:ARG:NE	3:AM:47:GLN:NE2	2.68	0.42
9:AP:101:BCL:HBA1	9:AP:101:BCL:H3A	1.76	0.42
14:AP:102:CRT:H2M3	5:AQ:36:HIS:CB	2.50	0.42
9:AQ:102:BCL:HBC2	9:AR:101:BCL:CMD	2.49	0.42
5:AQ:19:ARG:O	5:AQ:22:VAL:HG12	2.20	0.42
6:AR:29:PHE:CD1	9:AR:101:BCL:H11	2.55	0.42
14:AS:104:CRT:H21	6:AV:25:MET:HE2	2.02	0.42
5:AY:38:ILE:H	5:AY:38:ILE:HG13	1.75	0.42
6:AZ:36:HIS:CE1	9:AZ:101:BCL:C4A	3.03	0.42
9:B2:101:BCL:HBB3	9:B2:101:BCL:HMB1	2.02	0.42
5:B3:5:ASN:CA	5:B3:8:LEU:HD12	2.38	0.42
5:B9:8:LEU:HD22	5:B9:11:ILE:HD11	2.02	0.42
5:BA:37:MET:CE	14:B0:101:CRT:H2M1	2.50	0.42
5:BD:46:TRP:CE2	9:BD:102:BCL:H2C	2.54	0.42
9:BB:101:BCL:H92	9:BD:102:BCL:HED3	2.02	0.42
6:BG:21:PHE:CE1	14:BG:102:CRT:H16	2.54	0.42
4:BH:141:GLU:H	4:BH:141:GLU:CD	2.23	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BI:45:ASN:O	5:BI:47:LEU:N	2.53	0.42
5:BI:56:GLN:H	5:BI:56:GLN:HG3	1.66	0.42
6:BJ:29:PHE:N	6:BJ:29:PHE:HD1	2.18	0.42
6:BG:46:LEU:HB3	6:BJ:42:TYR:OH	2.18	0.42
5:BK:47:LEU:H	5:BK:47:LEU:CD2	2.29	0.42
2:BL:175:HIS:CE1	3:BM:184:ASP:OD2	2.73	0.42
2:BL:207:THR:C	2:BL:209:PRO:HD3	2.41	0.42
2:BL:44:LEU:O	2:BL:48:LEU:HB2	2.19	0.42
3:BM:219:HIS:CE1	3:BM:223:ILE:HD11	2.54	0.42
3:BM:84:PHE:O	3:BM:87:LEU:HB2	2.20	0.42
9:BO:102:BCL:CAD	9:BP:101:BCL:CAD	2.98	0.42
5:BO:3:THR:C	5:BO:5:ASN:H	2.23	0.42
5:BO:32:GLY:N	9:BP:101:BCL:HED2	2.35	0.42
6:BP:27:ALA:O	6:BP:31:LEU:CG	2.67	0.42
5:BQ:42:THR:CG2	5:BS:47:LEU:HG	2.49	0.42
6:BV:28:TRP:HA	6:BV:31:LEU:HD12	2.01	0.42
5:BY:28:GLN:HB3	9:BY:102:BCL:H12	2.02	0.42
5:BY:38:ILE:HD12	5:BY:39:VAL:HG23	2.02	0.42
2:AL:59:THR:OG1	2:AL:65:LEU:HD12	2.20	0.42
6:AG:25:MET:SD	6:AG:29:PHE:CZ	3.13	0.42
1:BC:159:ASN:HA	1:BC:160:PRO:HD3	1.77	0.42
5:BK:55:TYR:HD1	5:BK:56:GLN:N	2.18	0.42
4:BH:93:SER:O	4:BH:98:SER:HB2	2.20	0.42
5:A7:11:ILE:CG1	14:A0:101:CRT:H132	2.49	0.41
5:A3:51:ILE:HB	5:A3:52:PRO:HA	2.02	0.41
9:AA:101:BCL:HBB3	9:AA:101:BCL:HMB1	2.01	0.41
5:AA:39:VAL:C	5:AA:41:SER:H	2.24	0.41
5:AA:45:ASN:O	5:AA:47:LEU:N	2.53	0.41
1:AC:153:TYR:O	1:AC:157:ARG:HG2	2.20	0.41
1:AC:274:ARG:O	1:AC:277:ARG:HB2	2.20	0.41
6:AG:36:HIS:ND1	9:AG:101:BCL:H142	2.35	0.41
5:AI:27:PHE:CD1	5:AI:27:PHE:C	2.93	0.41
2:AL:6:PHE:CE1	3:AM:241:ARG:NH1	2.88	0.41
3:AM:179:ILE:O	3:AM:182:HIS:ND1	2.49	0.41
3:AM:191:ILE:O	3:AM:192:ARG:C	2.58	0.41
2:AL:196:LEU:HB2	3:AM:216:PHE:CB	2.50	0.41
14:AM:406:CRT:H10	14:AM:406:CRT:H81	1.87	0.41
3:AM:59:LEU:CD2	3:AM:128:LEU:HD21	2.49	0.41
6:AN:32:VAL:CG1	9:AN:101:BCL:H141	2.46	0.41
5:AO:11:ILE:HG22	5:AO:15:LEU:HD12	2.02	0.41
5:AS:12:TRP:HZ3	5:AS:20:VAL:HG11	1.85	0.41
5:AS:46:TRP:CD1	5:AS:47:LEU:N	2.88	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AV:102:BCL:HBB3	9:AV:102:BCL:HMB1	2.01	0.41
5:AU:12:TRP:CD1	6:AV:18:HIS:CA	3.03	0.41
9:AY:102:BCL:OBB	9:AY:102:BCL:HHC	2.19	0.41
5:B9:36:HIS:CD2	9:B0:102:BCL:CMD	3.02	0.41
5:B3:2:PHE:CE1	5:B3:5:ASN:CG	2.84	0.41
1:BC:254:ARG:HD3	1:BC:254:ARG:C	2.40	0.41
5:BD:16:ASP:OD2	5:BD:18:ARG:CG	2.68	0.41
5:BF:44:LEU:O	5:BF:46:TRP:N	2.49	0.41
6:BG:17:PHE:O	6:BG:21:PHE:HB3	2.19	0.41
6:BG:30:GLY:HA2	6:BG:33:VAL:CG1	2.50	0.41
4:BH:186:VAL:HG22	4:BH:193:VAL:HG22	2.02	0.41
4:BH:31:ARG:HH21	4:BH:34:ASP:CB	2.33	0.41
2:BL:139:VAL:HA	2:BL:143:VAL:CG2	2.50	0.41
2:BL:38:VAL:CG2	2:BL:39:GLY:H	2.25	0.41
3:BM:61:ILE:CG1	3:BM:129:TRP:HZ3	2.33	0.41
3:BM:191:ILE:O	3:BM:192:ARG:C	2.57	0.41
3:BM:221:ALA:O	3:BM:222:THR:C	2.57	0.41
3:BM:210:TYR:HB3	9:BM:401:BCL:H11	2.01	0.41
14:BO:103:CRT:H23	6:BR:16:GLU:CB	2.50	0.41
5:BS:30:VAL:CG1	5:BS:31:LEU:N	2.82	0.41
5:BU:11:ILE:C	14:BU:103:CRT:H21A	2.40	0.41
5:BU:35:ILE:HD13	5:BU:35:ILE:HA	1.84	0.41
5:BU:43:ASP:OD2	5:BW:47:LEU:HA	2.20	0.41
6:BN:22:MET:HG3	6:BN:26:TYR:CE2	2.54	0.41
5:BI:15:LEU:HD12	5:BI:20:VAL:HG11	2.01	0.41
6:A2:31:LEU:O	6:A2:34:ILE:HG22	2.20	0.41
5:A1:60:LYS:O	5:A1:61:LYS:OXT	2.38	0.41
6:A0:26:TYR:O	6:A0:27:ALA:C	2.59	0.41
5:A3:22:VAL:HA	5:A3:25:VAL:CG2	2.51	0.41
5:A5:44:LEU:HD12	5:A5:46:TRP:HB3	2.01	0.41
6:AB:24:SER:OG	5:A9:4:MET:HE2	2.20	0.41
1:AC:270:TRP:CE3	1:AC:271:TYR:CD1	3.08	0.41
1:AC:276:VAL:HG23	1:AC:280:ASN:ND2	2.34	0.41
5:AF:45:ASN:O	5:AF:47:LEU:N	2.54	0.41
6:AJ:17:PHE:CD1	6:AJ:17:PHE:C	2.93	0.41
2:AL:193:CYS:O	2:AL:193:CYS:SG	2.77	0.41
2:AL:48:LEU:HD23	2:AL:51:VAL:HG21	2.01	0.41
2:AL:206:VAL:HG13	3:AM:142:MET:HE1	2.02	0.41
2:AL:203:ILE:CG2	3:AM:266:HIS:ND1	2.62	0.41
3:AM:73:PHE:O	3:AM:74:ASN:C	2.59	0.41
6:AN:18:HIS:O	6:AN:22:MET:CB	2.68	0.41
5:AS:30:VAL:HG22	15:AS:101:PEF:H412	0.57	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AT:16:GLU:OE1	14:AT:102:CRT:H31A	2.19	0.41
6:AV:15:LYS:O	6:AV:18:HIS:HB3	2.20	0.41
5:AY:36:HIS:O	5:AY:40:LEU:CB	2.67	0.41
9:B7:103:BCL:HMB1	9:B7:103:BCL:HBB3	2.02	0.41
9:BA:101:BCL:C4C	9:BB:101:BCL:HMD2	2.49	0.41
1:BC:233:PHE:O	1:BC:235:LEU:N	2.53	0.41
1:BC:259:TRP:CH2	7:BC:503:HEM:HAD1	2.56	0.41
6:BJ:21:PHE:O	6:BJ:22:MET:C	2.58	0.41
5:BI:49:ASP:O	5:BK:60:LYS:CB	2.68	0.41
2:BL:12:VAL:HB	4:BH:113:PRO:HD3	2.01	0.41
2:BL:253:SER:O	2:BL:254:ALA:C	2.57	0.41
3:BM:210:TYR:O	3:BM:213:ALA:HB3	2.20	0.41
3:BM:268:TRP:NE1	4:BH:30:LEU:HD22	2.35	0.41
3:BM:284:ILE:HD11	9:BM:402:BCL:CAD	2.51	0.41
5:BO:38:ILE:CG1	5:BO:39:VAL:N	2.73	0.41
6:BP:22:MET:O	6:BP:25:MET:HB3	2.20	0.41
9:BQ:104:BCL:H11	6:BR:29:PHE:HA	2.02	0.41
5:AS:49:ASP:CG	5:AS:50:ASN:N	2.73	0.41
1:BC:153:TYR:CE1	1:BC:158:GLY:N	2.88	0.41
3:AM:28:LEU:HD12	3:AM:28:LEU:H	1.85	0.41
3:BM:98:PRO:CB	3:BM:171:TRP:HB3	2.48	0.41
2:BL:72:ARG:HG2	3:BM:305:PRO:HA	2.01	0.41
5:B7:56:GLN:HG2	5:B7:57:ALA:N	2.35	0.41
1:AC:65:ALA:CB	1:AC:89:GLU:OE1	2.68	0.41
5:AF:18:ARG:HG3	5:AF:18:ARG:HH11	1.85	0.41
5:A1:10:LYS:HD2	6:A4:20:ILE:CG2	2.49	0.41
5:A3:28:GLN:HE21	5:A3:28:GLN:CA	2.33	0.41
9:A5:102:BCL:OBD	6:A6:32:VAL:HG23	2.20	0.41
5:A5:20:VAL:HB	9:A7:103:BCL:C20	2.50	0.41
5:AA:15:LEU:N	5:AA:15:LEU:HD22	2.34	0.41
2:AL:51:VAL:HG12	5:AA:37:MET:HG2	2.01	0.41
9:AG:101:BCL:HHB	9:AI:102:BCL:HMA1	2.02	0.41
5:AI:44:LEU:HD13	6:AJ:43:ARG:CD	2.41	0.41
2:AL:138:LEU:C	2:AL:140:LEU:N	2.73	0.41
2:AL:175:HIS:CD2	2:AL:178:TYR:CZ	3.08	0.41
3:AM:261:THR:H	3:AM:264:SER:HG	1.68	0.41
3:AM:61:ILE:CG2	3:AM:62:PHE:N	2.83	0.41
3:AM:83:VAL:HA	3:AM:86:PHE:CB	2.50	0.41
6:AP:17:PHE:HA	6:AP:20:ILE:HG22	2.01	0.41
5:AQ:39:VAL:HG13	5:AQ:43:ASP:HB3	2.01	0.41
5:AQ:24:ILE:HD11	9:AS:103:BCL:H191	2.01	0.41
6:AT:29:PHE:HD1	6:AT:29:PHE:N	2.17	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AW:28:GLN:NE2	14:AX:102:CRT:H27	2.35	0.41
5:AY:13:LEU:HD22	6:AZ:14:ALA:HB2	2.01	0.41
6:B0:36:HIS:CE1	9:B0:102:BCL:CHB	2.99	0.41
6:B0:21:PHE:CD1	14:B0:101:CRT:H16	2.56	0.41
5:B7:20:VAL:HG23	5:B7:21:LEU:N	2.35	0.41
9:BA:101:BCL:C20	5:B9:24:ILE:HD13	2.48	0.41
5:BA:39:VAL:HG11	9:BB:101:BCL:HBC3	2.02	0.41
1:BC:130:MET:HB3	7:BC:502:HEM:C4B	2.55	0.41
9:BF:102:BCL:H143	14:BG:102:CRT:C13	2.49	0.41
14:BF:103:CRT:C2M	5:BK:36:HIS:HB3	2.49	0.41
6:BG:16:GLU:O	6:BG:20:ILE:HG22	2.19	0.41
4:BH:59:PRO:O	4:BH:60:ASP:C	2.57	0.41
5:BI:27:PHE:CE2	5:BK:29:ILE:CD1	3.02	0.41
5:BI:29:ILE:CG2	5:BI:30:VAL:N	2.83	0.41
5:BI:46:TRP:NE1	5:BI:47:LEU:HD12	2.35	0.41
6:BJ:38:LEU:C	6:BJ:38:LEU:HD23	2.40	0.41
2:BL:106:PHE:O	2:BL:110:ALA:HB2	2.20	0.41
2:BL:111:LEU:HA	2:BL:114:VAL:CG2	2.50	0.41
2:BL:186:ILE:HG23	9:BL:301:BCL:HMB3	2.02	0.41
2:BL:30:PHE:N	2:BL:30:PHE:CD1	2.88	0.41
2:BL:231:TYR:OH	3:BM:40:LEU:HD21	2.20	0.41
9:BO:102:BCL:HMB1	9:BO:102:BCL:HBB2	2.01	0.41
9:BO:102:BCL:HBB3	9:BO:102:BCL:HMB1	2.01	0.41
5:BQ:25:VAL:HG13	5:BQ:26:ALA:N	2.35	0.41
5:BQ:42:THR:CG2	5:BQ:43:ASP:H	2.21	0.41
6:BR:45:TRP:O	6:BR:46:LEU:CB	2.67	0.41
9:BU:102:BCL:HBC1	9:BV:101:BCL:HBC3	2.02	0.41
5:BW:29:ILE:CA	9:BW:102:BCL:H11	2.42	0.41
2:AL:21:ASP:HB3	5:A7:19:ARG:HE	1.84	0.41
2:AL:144:ARG:O	2:AL:146:LEU:N	2.53	0.41
3:AM:12:GLN:O	3:AM:13:VAL:HG13	2.19	0.41
6:BB:40:TRP:CZ3	6:BB:44:PRO:HA	2.55	0.41
3:AM:299:VAL:CB	3:AM:304:ALA:HB3	2.41	0.41
6:AE:8:GLY:O	6:AE:9:LEU:HG	2.20	0.41
1:AC:63:PRO:O	1:AC:92:ARG:CZ	2.67	0.41
1:BC:170:PRO:CG	1:BC:171:GLY:H	2.33	0.41
6:AG:10:THR:CG2	6:AG:11:ASP:N	2.82	0.41
4:BH:206:ALA:C	4:BH:208:LYS:N	2.73	0.41
2:BL:32:VAL:HG12	2:BL:33:GLY:N	2.36	0.41
6:A0:20:ILE:O	6:A0:20:ILE:HD13	2.20	0.41
6:A2:17:PHE:HB2	14:A2:102:CRT:H41	2.03	0.41
6:A8:24:SER:O	6:A8:27:ALA:N	2.54	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:A8:46:LEU:HD22	6:A0:42:TYR:HE2	1.76	0.41
9:A8:101:BCL:CMC	9:A9:102:BCL:OBB	2.68	0.41
5:AA:12:TRP:O	6:AB:9:LEU:HD22	2.20	0.41
6:AB:21:PHE:CE1	14:AB:102:CRT:H16	2.56	0.41
1:AC:125:VAL:O	1:AC:128:ARG:HB2	2.21	0.41
1:AC:274:ARG:NH1	1:AC:274:ARG:CG	2.82	0.41
4:AH:32:ARG:NH2	4:AH:60:ASP:HB2	2.30	0.41
4:AH:45:ARG:HA	4:AH:96:PRO:HB3	2.02	0.41
5:AI:52:PRO:HB2	5:AI:55:TYR:CD2	2.56	0.41
5:AI:52:PRO:CG	5:AI:55:TYR:HE2	2.31	0.41
9:AJ:101:BCL:NB	9:AK:102:BCL:CMB	2.83	0.41
2:AL:114:VAL:O	2:AL:118:ARG:HG3	2.20	0.41
2:AL:170:GLY:O	2:AL:176:PHE:HD1	2.03	0.41
9:AL:301:BCL:CHD	9:AL:301:BCL:HBC3	2.43	0.41
2:AL:205:SER:O	3:AM:142:MET:SD	2.78	0.41
3:AM:189:PHE:O	3:AM:190:SER:C	2.59	0.41
9:AM:402:BCL:HBB3	9:AM:402:BCL:HMB1	2.01	0.41
15:AM:408:PEF:H51	15:AM:408:PEF:O2P	2.21	0.41
3:AM:98:PRO:CG	3:AM:171:TRP:HB3	2.50	0.41
5:AS:27:PHE:CZ	5:AU:29:ILE:CG1	3.04	0.41
5:AU:19:ARG:HB3	5:AU:19:ARG:CZ	2.50	0.41
5:AU:50:ASN:HB3	5:AW:59:GLY:HA3	2.02	0.41
6:AX:21:PHE:CD2	14:AX:102:CRT:C15	3.03	0.41
6:AZ:46:LEU:HD12	5:A1:52:PRO:CG	2.49	0.41
5:B1:13:LEU:HD13	14:B1:103:CRT:H23	1.79	0.41
5:B1:11:ILE:CG1	14:B1:103:CRT:H81	2.50	0.41
5:B3:3:THR:HB	5:B3:4:MET:H	1.56	0.41
5:B3:4:MET:SD	5:B3:4:MET:N	2.89	0.41
5:B5:29:ILE:HG23	5:B5:30:VAL:H	1.84	0.41
9:B8:101:BCL:HMC2	9:B9:102:BCL:OBB	2.21	0.41
6:B8:32:VAL:O	6:B8:35:ALA:HB3	2.20	0.41
1:BC:248:THR:OG1	1:BC:249:PHE:N	2.54	0.41
7:BC:504:HEM:HBD1	7:BC:504:HEM:HHA	2.02	0.41
6:BG:36:HIS:CE1	9:BG:101:BCL:C4A	3.03	0.41
5:BK:16:ASP:HB2	5:BK:19:ARG:HD3	2.02	0.41
5:BK:46:TRP:CE2	9:BK:102:BCL:H2C	2.56	0.41
2:BL:106:PHE:N	2:BL:106:PHE:CD1	2.87	0.41
2:BL:138:LEU:N	2:BL:138:LEU:HD12	2.36	0.41
2:BL:233:ILE:HG12	2:BL:237:ALA:HB1	2.02	0.41
2:BL:69:ASN:ND2	2:BL:71:TRP:HB2	2.35	0.41
3:BM:132:ARG:CD	3:BM:132:ARG:O	2.67	0.41
3:BM:237:GLN:CD	3:BM:244:ALA:HB3	2.41	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:BM:290:VAL:HG12	3:BM:291:VAL:HG23	2.02	0.41
3:BM:194:GLY:N	3:BM:293:ASN:HA	2.35	0.41
5:BQ:45:ASN:HB2	5:BQ:49:ASP:HB3	2.01	0.41
9:BU:102:BCL:C4D	9:BV:101:BCL:CMD	2.98	0.41
5:BU:13:LEU:HD12	14:BU:103:CRT:H1M2	2.02	0.41
5:BY:33:LEU:HD12	5:BY:33:LEU:C	2.41	0.41
5:BY:35:ILE:O	5:BY:36:HIS:C	2.59	0.41
5:BY:17:PRO:HB3	6:BZ:17:PHE:CE2	2.55	0.41
4:BH:125:LEU:CB	4:BH:129:GLY:O	2.67	0.41
5:BS:10:LYS:O	5:BS:13:LEU:HB2	2.21	0.41
2:AL:151:TRP:C	2:AL:153:HIS:N	2.72	0.41
5:BY:18:ARG:NH1	5:BY:18:ARG:HG2	2.35	0.41
2:BL:82:TYR:CA	2:BL:85:ARG:HE	2.30	0.41
5:AU:33:LEU:N	5:AU:33:LEU:HD12	2.35	0.41
9:A0:102:BCL:HBB2	9:A0:102:BCL:HMB1	2.02	0.41
5:AY:11:ILE:HA	14:A2:102:CRT:H82	2.03	0.41
14:A5:103:CRT:H181	14:A5:103:CRT:H20	1.92	0.41
5:A7:17:PRO:HG2	5:A7:18:ARG:H	1.85	0.41
9:A8:101:BCL:CMC	9:A9:102:BCL:CBB	2.92	0.41
1:AC:128:ARG:NE	7:AC:501:HEM:O2D	2.53	0.41
5:AD:43:ASP:CG	5:AD:44:LEU:H	2.24	0.41
4:AH:232:THR:OG1	4:AH:235:GLU:HG2	2.20	0.41
4:AH:54:LYS:HE2	4:AH:58:PHE:CE1	2.55	0.41
4:AH:80:ARG:HG3	4:AH:80:ARG:HH11	1.85	0.41
9:AK:102:BCL:O1D	9:AK:102:BCL:H2A	2.19	0.41
2:AL:139:VAL:HG23	2:AL:258:LEU:HD13	2.02	0.41
2:AL:164:ASP:C	2:AL:166:VAL:N	2.73	0.41
2:AL:199:HIS:C	2:AL:201:SER:H	2.24	0.41
3:AM:102:TYR:O	3:AM:103:GLY:C	2.59	0.41
3:AM:175:VAL:HA	3:AM:185:TRP:CG	2.53	0.41
2:AL:215:VAL:HG11	3:AM:239:THR:CG2	2.51	0.41
6:AN:20:ILE:HG21	14:AN:102:CRT:C8	2.51	0.41
5:AK:11:ILE:CG1	14:AP:102:CRT:H81	2.51	0.41
6:AP:15:LYS:O	6:AP:16:GLU:C	2.58	0.41
6:AV:10:THR:CG2	6:AV:11:ASP:H	2.29	0.41
5:AY:8:LEU:CD2	5:AY:11:ILE:HD11	2.47	0.41
6:B0:29:PHE:O	6:B0:32:VAL:N	2.54	0.41
9:B1:102:BCL:HMD2	9:B2:101:BCL:CHD	2.50	0.41
5:B1:36:HIS:NE2	9:B2:101:BCL:HMD1	2.32	0.41
14:B1:103:CRT:H35	5:B3:31:LEU:HD11	2.02	0.41
14:BA:102:CRT:H403	5:BD:35:ILE:CD1	2.47	0.41
5:BA:47:LEU:HA	5:B9:43:ASP:OD2	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:BC:264:PRO:HG2	1:BC:265:LYS:HD2	2.02	0.41
5:BF:50:ASN:CG	6:BG:43:ARG:NH2	2.55	0.41
9:BF:102:BCL:C2D	9:BG:101:BCL:C2D	2.98	0.41
6:BG:28:TRP:O	6:BG:31:LEU:N	2.53	0.41
4:BH:100:LEU:O	4:BH:111:PHE:HE2	2.03	0.41
4:BH:58:PHE:N	4:BH:59:PRO:CD	2.83	0.41
4:BH:5:ILE:CG2	4:BH:6:THR:N	2.52	0.41
6:BJ:17:PHE:HD1	6:BJ:17:PHE:C	2.24	0.41
6:BJ:33:VAL:CG1	6:BJ:34:ILE:N	2.82	0.41
2:BL:156:PRO:O	2:BL:157:TYR:CD1	2.73	0.41
2:BL:192:ASN:CA	2:BL:245:LEU:HD13	2.51	0.41
1:BC:28:PRO:HD3	2:BL:262:PRO:HA	2.01	0.41
3:BM:196:LEU:C	3:BM:198:TYR:N	2.73	0.41
2:BL:190:PHE:CZ	9:BM:402:BCL:CGA	3.03	0.41
9:BN:101:BCL:H18	9:BO:102:BCL:HMC3	2.01	0.41
9:BO:102:BCL:CB D	9:BP:101:BCL:CAD	2.99	0.41
5:BS:8:LEU:HB3	6:BT:18:HIS:CE1	2.56	0.41
5:BU:43:ASP:HB2	5:BW:47:LEU:CD2	2.48	0.41
4:BH:142:PHE:HZ	4:BH:173:ASP:O	2.03	0.41
4:BH:176:GLU:O	4:BH:178:GLN:HG2	2.20	0.41
5:BF:55:TYR:CD1	5:BF:55:TYR:N	2.88	0.41
4:AH:240:CYS:O	4:AH:242:TYR:N	2.54	0.41
5:BK:33:LEU:O	5:BK:37:MET:HG2	2.20	0.41
3:BM:134:TYR:CG	3:BM:144:GLN:NE2	2.88	0.41
6:AB:42:TYR:CZ	6:A0:46:LEU:HD22	2.56	0.41
14:A1:103:CRT:H10	14:A1:103:CRT:H81	1.57	0.41
5:A3:46:TRP:NE1	5:A3:47:LEU:CD2	2.84	0.41
6:A8:32:VAL:O	6:A8:35:ALA:HB3	2.20	0.41
6:AB:46:LEU:HD13	6:AE:42:TYR:OH	2.20	0.41
1:AC:276:VAL:HG22	1:AC:280:ASN:HD22	1.85	0.41
4:AH:184:VAL:O	4:AH:193:VAL:HG22	2.20	0.41
2:AL:101:CYS:O	2:AL:102:ALA:C	2.59	0.41
3:AM:123:THR:HA	3:AM:157:TYR:OH	2.21	0.41
3:AM:161:GLY:HA3	14:AM:406:CRT:H291	2.02	0.41
3:AM:164:ARG:HD3	3:AM:164:ARG:C	2.41	0.41
3:AM:104:LEU:CD2	3:AM:169:GLY:HA2	2.48	0.41
3:AM:226:VAL:HG22	3:AM:229:PHE:HB2	2.03	0.41
6:AN:31:LEU:CA	6:AN:34:ILE:HG22	2.48	0.41
5:AO:43:ASP:OD1	5:AO:44:LEU:HD23	2.21	0.41
9:AO:102:BCL:C4D	9:AP:101:BCL:C2D	2.98	0.41
5:AS:36:HIS:HD2	5:AS:46:TRP:CH2	2.38	0.41
14:AS:104:CRT:C36	5:AW:33:LEU:HA	2.34	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:B1:103:CRT:H183	9:B3:102:BCL:H92	2.01	0.41
6:B6:23:GLN:HG3	6:B6:24:SER:H	1.85	0.41
5:BA:15:LEU:O	5:BA:16:ASP:C	2.58	0.41
5:BD:31:LEU:HA	5:BD:31:LEU:HD12	1.80	0.41
5:BF:35:ILE:HG13	9:BG:101:BCL:O1D	2.21	0.41
5:BF:40:LEU:HD13	5:BF:46:TRP:CZ2	2.56	0.41
4:BH:35:LYS:HZ2	4:BH:59:PRO:HG2	1.86	0.41
2:BL:120:LEU:O	2:BL:121:GLY:C	2.59	0.41
11:BL:304:UQ8:H32A	11:BL:304:UQ8:H35	1.83	0.41
3:BM:184:ASP:O	3:BM:187:ALA:N	2.53	0.41
3:BM:238:ILE:HG23	3:BM:263:GLU:HB2	2.01	0.41
3:BM:296:LEU:O	3:BM:300:LYS:HG2	2.20	0.41
5:BO:10:LYS:H	5:BO:10:LYS:HG2	1.67	0.41
5:BO:30:VAL:HG13	5:BO:31:LEU:N	2.35	0.41
6:BR:45:TRP:HD1	6:BR:46:LEU:N	2.18	0.41
5:BY:45:ASN:O	5:BY:46:TRP:C	2.58	0.41
6:BZ:21:PHE:CD1	6:BZ:22:MET:N	2.89	0.41
2:AL:147:LEU:O	2:AL:148:MET:HG2	2.21	0.41
4:BH:151:PRO:HA	4:BH:154:MET:CG	2.50	0.41
6:AE:38:LEU:C	6:AE:38:LEU:HD23	2.41	0.41
1:BC:178:LEU:HD12	5:BS:41:SER:HB2	2.03	0.41
5:A3:55:TYR:H	5:A3:56:GLN:NE2	2.18	0.41
6:A4:27:ALA:O	6:A4:31:LEU:HG	2.21	0.41
6:A4:45:TRP:O	6:A4:46:LEU:CG	2.68	0.41
9:A5:102:BCL:H143	14:A7:102:CRT:C13	2.39	0.41
5:A5:25:VAL:HG13	9:A5:102:BCL:H41	2.01	0.41
1:AC:123:THR:OG1	1:AC:124:LYS:N	2.53	0.41
1:AC:237:MET:SD	2:AL:174:LEU:HB3	2.60	0.41
1:AC:36:ARG:NH2	2:AL:90:THR:O	2.54	0.41
4:AH:52:ARG:HH11	4:AH:52:ARG:HB3	1.83	0.41
4:AH:64:PRO:HA	4:AH:79:PRO:HD2	2.02	0.41
6:AJ:45:TRP:O	5:AK:52:PRO:HD3	2.21	0.41
2:AL:182:HIS:O	2:AL:186:ILE:HG13	2.21	0.41
2:AL:192:ASN:HA	2:AL:245:LEU:CD1	2.51	0.41
2:AL:251:PHE:O	2:AL:254:ALA:HB3	2.21	0.41
3:AM:107:PRO:CD	3:AM:116:LEU:HD22	2.51	0.41
3:AM:219:HIS:O	3:AM:223:ILE:HG12	2.21	0.41
3:AM:241:ARG:CG	3:AM:242:GLY:N	2.78	0.41
3:AM:284:ILE:CD1	9:AM:402:BCL:OBD	2.68	0.41
15:AM:408:PEF:H52	4:AH:204:LYS:CE	2.46	0.41
3:AM:35:ILE:CG1	15:AM:409:PEF:H321	2.50	0.41
3:AM:85:GLN:O	3:AM:88:LYS:N	2.54	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AO:51:ILE:O	5:AO:53:VAL:N	2.54	0.41
9:AQ:102:BCL:H62	6:AR:28:TRP:CH2	2.56	0.41
5:AQ:52:PRO:CG	5:AQ:53:VAL:H	2.34	0.41
9:AU:102:BCL:C1A	9:AU:102:BCL:O1D	2.64	0.41
5:AY:35:ILE:CA	5:AY:38:ILE:HG13	2.51	0.41
5:B1:13:LEU:CD1	14:B1:103:CRT:C2	2.46	0.41
9:B9:102:BCL:ND	9:B0:102:BCL:CMD	2.84	0.41
14:BB:102:CRT:O1	5:B9:10:LYS:HB3	2.21	0.41
9:BB:101:BCL:HHC	9:BB:101:BCL:OBB	2.19	0.41
1:BC:239:ILE:O	1:BC:243:LEU:HD13	2.19	0.41
1:BC:267:THR:O	1:BC:270:TRP:N	2.54	0.41
3:BM:242:GLY:HA2	4:BH:117:PRO:HG3	2.03	0.41
4:BH:197:ILE:C	4:BH:197:ILE:HD13	2.41	0.41
4:BH:69:LEU:CD2	4:BH:70:PRO:HD2	2.49	0.41
4:BH:69:LEU:HD11	4:BH:76:VAL:HG23	2.01	0.41
6:BJ:20:ILE:CG2	6:BJ:21:PHE:N	2.84	0.41
5:BK:44:LEU:HD21	5:BK:46:TRP:HB3	1.99	0.41
1:BC:253:THR:HG22	2:BL:171:TYR:CD2	2.56	0.41
2:BL:184:LEU:HD22	2:BL:252:TRP:HE1	1.86	0.41
2:BL:166:VAL:O	9:BL:301:BCL:CBC	2.69	0.41
3:BM:189:PHE:O	3:BM:190:SER:C	2.59	0.41
3:BM:268:TRP:CZ2	4:BH:30:LEU:HB3	2.56	0.41
3:BM:51:ILE:CG1	3:BM:52:TYR:N	2.84	0.41
6:BR:46:LEU:HD13	6:BT:42:TYR:CZ	2.56	0.41
14:BS:103:CRT:H372	9:BU:102:BCL:HMB2	2.02	0.41
9:BU:102:BCL:ND	9:BV:101:BCL:HMD2	2.32	0.41
6:BV:20:ILE:HD13	6:BV:20:ILE:C	2.40	0.41
5:BW:36:HIS:O	5:BW:40:LEU:HB3	2.20	0.41
5:AF:3:THR:HG22	5:AF:4:MET:CE	2.51	0.41
6:BT:9:LEU:HB3	6:BT:13:GLU:HG3	2.02	0.41
2:AL:147:LEU:HB3	2:AL:262:PRO:HB3	2.02	0.41
5:BD:51:ILE:HG23	5:BD:52:PRO:HA	2.02	0.41
3:BM:148:TRP:HB3	3:BM:270:TRP:HZ2	1.84	0.41
1:BC:170:PRO:CG	1:BC:171:GLY:N	2.83	0.41
2:AL:5:SER:CB	4:AH:38:GLY:O	2.69	0.41
5:A5:53:VAL:O	5:A5:54:SER:C	2.59	0.41
1:AC:235:LEU:C	1:AC:239:ILE:HD12	2.41	0.41
5:AD:35:ILE:C	5:AD:37:MET:N	2.74	0.41
5:AF:31:LEU:O	5:AF:35:ILE:HG12	2.20	0.41
6:AG:23:GLN:HA	6:AG:26:TYR:CD2	2.56	0.41
4:AH:32:ARG:O	4:AH:35:LYS:N	2.51	0.41
4:AH:36:ARG:NE	4:AH:65:LYS:HB2	2.36	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AL:126:VAL:O	2:AL:129:ALA:HB3	2.21	0.41
2:AL:279:PRO:C	2:AL:280:LEU:HG	2.39	0.41
3:AM:39:TRP:O	3:AM:40:LEU:C	2.60	0.41
10:AL:302:BPH:C16	9:AM:401:BCL:HMB3	2.51	0.41
3:AM:205:SER:C	9:AM:402:BCL:CMA	2.89	0.41
3:AM:74:ASN:CG	3:AM:95:LEU:HD13	2.40	0.41
14:AN:102:CRT:H10	14:AN:102:CRT:H81	1.87	0.41
5:AO:12:TRP:CZ3	6:AP:17:PHE:CE2	3.09	0.41
5:AQ:15:LEU:HD11	5:AS:21:LEU:HD13	2.02	0.41
5:AQ:55:TYR:O	5:AQ:59:GLY:HA3	2.20	0.41
5:AS:9:TYR:C	5:AS:9:TYR:CD1	2.94	0.41
5:AU:19:ARG:CB	5:AU:19:ARG:NH2	2.84	0.41
5:AU:49:ASP:OD1	5:AU:50:ASN:N	2.47	0.41
6:AV:24:SER:O	6:AV:27:ALA:HB3	2.21	0.41
5:AY:9:TYR:CG	5:AY:10:LYS:N	2.89	0.41
5:AY:43:ASP:HA	5:A1:48:ASP:CB	2.50	0.41
6:B2:26:TYR:HA	6:B2:29:PHE:CD2	2.55	0.41
9:B3:102:BCL:H121	9:B3:102:BCL:H8	1.75	0.41
5:B9:44:LEU:N	5:B9:44:LEU:CD1	2.84	0.41
9:BA:101:BCL:HMB1	9:BA:101:BCL:HBB3	2.02	0.41
6:BB:27:ALA:HB1	5:B9:4:MET:HG3	2.03	0.41
1:BC:123:THR:O	1:BC:126:VAL:HG22	2.20	0.41
1:BC:138:ASN:O	1:BC:142:LYS:HG2	2.20	0.41
9:BB:101:BCL:HMA1	9:BD:102:BCL:HMA1	2.02	0.41
5:BF:31:LEU:HD11	5:BF:35:ILE:HD11	2.02	0.41
4:BH:211:VAL:HG12	4:BH:213:ALA:HB3	2.03	0.41
5:BF:38:ILE:HD12	5:BI:37:MET:HE3	2.02	0.41
2:BL:137:TYR:CD1	2:BL:137:TYR:C	2.93	0.41
2:BL:144:ARG:O	2:BL:147:LEU:N	2.54	0.41
2:BL:192:ASN:HD21	3:BM:212:SER:C	2.24	0.41
9:BL:301:BCL:H201	9:BM:401:BCL:H72	2.03	0.41
2:BL:67:THR:OG1	2:BL:68:TYR:N	2.54	0.41
3:BM:205:SER:CB	9:BM:402:BCL:HMA2	2.50	0.41
14:BO:103:CRT:H32	9:BQ:104:BCL:HMA2	2.03	0.41
5:BO:28:GLN:HB3	9:BP:101:BCL:HED1	2.02	0.41
5:BU:49:ASP:OD2	5:BU:50:ASN:OD1	2.38	0.41
5:BU:6:ALA:HA	6:BV:15:LYS:HZ1	1.86	0.41
5:BW:26:ALA:O	5:BW:30:VAL:HG12	2.21	0.41
5:B3:56:GLN:H	5:B3:56:GLN:CD	2.24	0.41
5:BF:4:MET:O	5:BF:8:LEU:CG	2.67	0.41
1:AC:32:GLN:OE1	2:AL:80:LEU:N	2.40	0.41
1:AC:324:ALA:O	1:AC:331:TYR:OH	2.34	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:BH:151:PRO:HA	4:BH:154:MET:HG3	2.03	0.41
1:AC:53:ILE:HG12	1:AC:319:TYR:CD1	2.54	0.41
3:BM:28:LEU:CB	3:BM:29:PRO:HD2	2.42	0.41
1:BC:316:LYS:O	1:BC:319:TYR:N	2.52	0.41
5:BW:51:ILE:CB	5:BW:52:PRO:CA	2.94	0.41
5:BU:42:THR:O	5:BW:48:ASP:HB3	2.20	0.41
6:AX:13:GLU:HA	6:AX:16:GLU:HB3	2.03	0.41
6:BE:31:LEU:HA	6:BE:34:ILE:HG22	2.02	0.41
9:A0:102:BCL:HMB1	9:A0:102:BCL:HBB3	2.03	0.41
6:A0:29:PHE:O	6:A0:32:VAL:N	2.54	0.41
9:A3:103:BCL:ND	9:A3:104:BCL:CMD	2.84	0.41
5:A5:51:ILE:HA	5:A5:53:VAL:N	2.36	0.41
9:AD:102:BCL:HMB1	9:AD:102:BCL:HBB2	2.02	0.41
5:AF:50:ASN:CG	5:AF:51:ILE:N	2.73	0.41
4:AH:135:PRO:HD3	4:AH:171:TRP:CH2	2.55	0.41
4:AH:184:VAL:CG2	4:AH:195:LEU:HB2	2.50	0.41
9:AI:102:BCL:HBC2	9:AJ:101:BCL:CMD	2.51	0.41
2:AL:101:CYS:O	2:AL:104:GLY:N	2.54	0.41
2:AL:204:LEU:HD11	3:AM:267:ARG:HD3	2.02	0.41
2:AL:252:TRP:HE3	2:AL:252:TRP:HA	1.84	0.41
2:AL:157:TYR:CD1	10:AL:302:BPH:H151	2.55	0.41
2:AL:93:GLY:HA2	2:AL:96:GLN:NE2	2.36	0.41
3:AM:161:GLY:N	3:AM:165:PRO:HD2	2.36	0.41
2:AL:177:HIS:CG	3:AM:183:LEU:CD2	3.04	0.41
3:AM:249:ALA:HB2	13:AM:405:MQ8:C6	2.46	0.41
6:AJ:46:LEU:HB3	6:AN:42:TYR:OH	2.21	0.41
6:AP:24:SER:O	6:AP:27:ALA:N	2.51	0.41
5:AQ:27:PHE:HE2	5:AS:29:ILE:HD12	1.81	0.41
5:AQ:51:ILE:HG23	5:AQ:52:PRO:HA	1.99	0.41
5:AS:20:VAL:HG23	5:AS:21:LEU:N	2.35	0.41
5:AQ:43:ASP:H	5:AS:47:LEU:HB3	1.83	0.41
9:AT:101:BCL:HMB2	9:AT:101:BCL:H121	2.03	0.41
5:AS:5:ASN:O	6:AT:18:HIS:CD2	2.74	0.41
5:AS:27:PHE:CE2	5:AU:29:ILE:HG13	2.56	0.41
5:AU:42:THR:O	5:AW:48:ASP:HB3	2.21	0.41
9:AX:101:BCL:HMC1	5:AY:47:LEU:HD21	2.03	0.41
6:A4:28:TRP:HA	6:A4:31:LEU:HB2	2.03	0.41
14:A7:102:CRT:H341	14:A7:102:CRT:H36	1.88	0.41
5:AD:40:LEU:HD13	5:AD:46:TRP:CH2	2.56	0.41
5:AA:49:ASP:O	5:AD:60:LYS:N	2.54	0.41
6:AG:28:TRP:O	6:AG:31:LEU:N	2.53	0.41
4:AH:116:SER:OG	4:AH:117:PRO:HD2	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AH:14:ILE:O	4:AH:17:TRP:N	2.50	0.41
4:AH:168:SER:OG	4:AH:169:ASP:N	2.54	0.41
5:AK:45:ASN:O	5:AK:47:LEU:N	2.54	0.41
2:AL:188:PHE:CB	2:AL:249:ALA:HB2	2.44	0.41
2:AL:275:TRP:O	2:AL:276:LEU:C	2.59	0.41
2:AL:244:PHE:CZ	11:AL:304:UQ8:H30A	2.55	0.41
2:AL:50:ILE:CB	2:AL:98:ILE:HD11	2.51	0.41
3:AM:175:VAL:HB	14:AM:406:CRT:H242	2.02	0.41
2:AL:190:PHE:CZ	9:AM:402:BCL:O2A	2.74	0.41
3:AM:70:ILE:C	3:AM:72:GLY:H	2.23	0.41
5:AO:35:ILE:HD13	5:AO:35:ILE:HA	1.91	0.41
6:AR:33:VAL:HG23	9:AR:101:BCL:C14	2.51	0.41
9:AT:101:BCL:HMA1	9:AU:102:BCL:HHB	2.02	0.41
6:AV:45:TRP:O	6:AV:46:LEU:HG	2.20	0.41
14:AW:102:CRT:H392	5:AY:35:ILE:HD11	2.02	0.41
5:AW:30:VAL:HA	5:AW:33:LEU:CG	2.51	0.41
14:AS:104:CRT:H2M3	5:AW:36:HIS:CB	2.50	0.41
5:B1:13:LEU:HD13	14:B1:103:CRT:H1M3	2.02	0.41
5:B1:8:LEU:C	5:B1:10:LYS:N	2.73	0.41
2:BL:51:VAL:HG12	5:BA:37:MET:HG2	2.03	0.41
1:BC:225:SER:O	1:BC:226:LEU:C	2.58	0.41
1:BC:24:GLU:CG	2:BL:266:ARG:HH22	2.33	0.41
1:BC:281:GLN:HA	1:BC:285:TRP:HD1	1.86	0.41
14:BA:102:CRT:C40	5:BD:38:ILE:HG21	2.50	0.41
9:BG:101:BCL:HMB1	9:BG:101:BCL:HBB2	2.02	0.41
6:BJ:18:HIS:NE2	6:BJ:22:MET:HE2	2.36	0.41
6:BJ:32:VAL:HG11	9:BJ:101:BCL:CBA	2.40	0.41
2:BL:51:VAL:CG1	5:BA:37:MET:HG2	2.51	0.41
3:BM:155:PHE:HE2	3:BM:278:ILE:O	2.04	0.41
3:BM:157:TYR:C	3:BM:157:TYR:CD1	2.93	0.41
3:BM:215:LEU:HD11	13:BM:405:MQ8:H193	2.03	0.41
3:BM:85:GLN:O	3:BM:88:LYS:N	2.53	0.41
5:BO:26:ALA:C	5:BO:29:ILE:HG22	2.39	0.41
5:BO:35:ILE:O	5:BO:38:ILE:HG12	2.20	0.41
6:BT:22:MET:O	6:BT:25:MET:N	2.50	0.41
9:BU:102:BCL:CED	6:BV:35:ALA:HB2	2.50	0.41
5:BU:40:LEU:O	5:BU:45:ASN:ND2	2.54	0.41
6:BV:20:ILE:HG21	14:BV:102:CRT:C8	2.48	0.41
14:BW:103:CRT:H341	14:BW:103:CRT:H36	1.93	0.41
5:BW:7:ASN:H	5:BW:7:ASN:HD22	1.65	0.41
6:B0:26:TYR:O	6:B0:27:ALA:C	2.58	0.41
6:B0:40:TRP:HB2	9:B0:102:BCL:C19	2.49	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:B2:31:LEU:C	6:B2:34:ILE:HG22	2.41	0.41
5:B5:14:ILE:CG2	5:B7:18:ARG:HG2	2.43	0.41
5:B9:46:TRP:CZ3	9:B9:102:BCL:HBC3	2.56	0.41
5:BA:30:VAL:O	5:BA:30:VAL:HG22	2.21	0.41
5:BA:35:ILE:HG22	5:BA:36:HIS:N	2.35	0.41
5:BA:35:ILE:C	5:BA:37:MET:N	2.73	0.41
1:BC:190:VAL:O	1:BC:192:TYR:N	2.54	0.41
1:BC:211:ARG:HD3	3:BM:317:TYR:CZ	2.56	0.41
1:BC:236:MET:HA	1:BC:239:ILE:HD12	2.03	0.41
1:BC:267:THR:HG21	3:BM:314:VAL:CA	2.51	0.41
1:BC:327:TYR:HA	1:BC:328:PRO:HD2	1.79	0.41
5:BK:26:ALA:O	5:BK:29:ILE:CG2	2.68	0.41
1:BC:237:MET:SD	2:BL:174:LEU:HB3	2.61	0.41
2:BL:238:ILE:C	2:BL:240:ARG:H	2.23	0.41
2:BL:261:GLY:HA3	2:BL:262:PRO:HD3	1.95	0.41
2:BL:270:GLU:O	2:BL:273:ASN:HB2	2.21	0.41
2:BL:79:ASP:C	2:BL:81:SER:N	2.74	0.41
3:BM:256:MET:HE1	13:BM:405:MQ8:H121	2.03	0.41
9:BN:101:BCL:CMC	9:BO:102:BCL:HBB1	2.51	0.41
5:BO:12:TRP:HE1	6:BP:18:HIS:HA	1.82	0.41
5:BQ:12:TRP:HE1	6:BR:18:HIS:HD1	1.68	0.41
5:BS:29:ILE:CG2	5:BS:30:VAL:H	2.33	0.41
9:BT:101:BCL:HMB1	9:BT:101:BCL:HBB3	2.00	0.41
9:BV:101:BCL:HBB3	9:BV:101:BCL:HMB1	2.02	0.41
6:BV:17:PHE:N	14:BV:102:CRT:H41	2.36	0.41
6:BV:17:PHE:CA	14:BV:102:CRT:H6	2.51	0.41
5:AS:49:ASP:CG	5:AS:50:ASN:H	2.24	0.41
4:BH:176:GLU:HA	4:BH:177:PRO:HD2	1.86	0.41
6:B0:10:THR:CG2	6:B0:11:ASP:H	2.23	0.41
1:BC:90:PHE:CD1	1:BC:91:THR:N	2.87	0.41
1:BC:53:ILE:HG13	1:BC:319:TYR:CZ	2.56	0.41
5:A3:9:TYR:C	5:A3:9:TYR:CD1	2.95	0.41
3:BM:98:PRO:CD	3:BM:171:TRP:HB3	2.48	0.41
6:B4:40:TRP:CE3	6:B4:44:PRO:HA	2.56	0.41
3:BM:70:ILE:C	3:BM:72:GLY:N	2.73	0.41
6:AT:33:VAL:CG1	6:AT:34:ILE:N	2.83	0.41
6:AZ:34:ILE:O	6:AZ:34:ILE:HD13	2.21	0.41
5:BA:20:VAL:HA	5:BA:23:SER:HB3	2.03	0.41
6:A0:22:MET:O	6:A0:26:TYR:HD2	2.03	0.41
6:A0:33:VAL:O	6:A0:37:LEU:N	2.47	0.41
5:A5:55:TYR:O	5:A5:59:GLY:HA3	2.21	0.41
6:A6:28:TRP:O	6:A6:30:GLY:N	2.53	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AB:101:BCL:HBB3	9:AB:101:BCL:HMB1	2.03	0.41
1:AC:153:TYR:O	1:AC:157:ARG:CG	2.69	0.41
1:AC:193:ALA:HB3	1:AC:195:LEU:CD1	2.46	0.41
1:AC:195:LEU:HB3	1:AC:196:PRO:HD3	1.99	0.41
1:AC:157:ARG:HH12	1:AC:318:LEU:HD11	1.86	0.41
7:AC:501:HEM:CBC	7:AC:502:HEM:HMB1	2.51	0.41
5:AD:43:ASP:HB2	5:AF:47:LEU:HD22	2.03	0.41
6:AG:38:LEU:HD23	6:AG:38:LEU:C	2.41	0.41
6:AG:45:TRP:CG	6:AG:46:LEU:N	2.79	0.41
6:AJ:17:PHE:C	6:AJ:17:PHE:HD1	2.24	0.41
6:AJ:38:LEU:HD23	6:AJ:38:LEU:C	2.41	0.41
3:AM:134:TYR:C	3:AM:144:GLN:HE22	2.22	0.41
3:AM:206:ILE:HG22	3:AM:210:TYR:CE2	2.56	0.41
3:AM:253:ARG:HD3	3:AM:257:GLY:O	2.21	0.41
5:AK:12:TRP:HD1	6:AN:17:PHE:HB3	1.86	0.41
5:AS:36:HIS:CD2	5:AS:46:TRP:HH2	2.39	0.41
5:AU:44:LEU:HD13	6:AV:43:ARG:NE	2.36	0.41
9:AW:101:BCL:O1A	6:AX:28:TRP:CZ2	2.74	0.41
5:AW:24:ILE:HG21	14:AX:102:CRT:H20	2.03	0.41
5:AW:4:MET:CE	6:AZ:23:GLN:HB3	2.51	0.41
5:AW:9:TYR:CA	6:AX:18:HIS:CG	2.99	0.41
5:AY:46:TRP:HA	5:AY:49:ASP:OD1	2.21	0.41
9:AY:102:BCL:C3D	9:AZ:101:BCL:C3D	2.98	0.41
9:AZ:101:BCL:HBB2	9:AZ:101:BCL:HMB1	2.03	0.41
5:AY:8:LEU:O	6:AZ:18:HIS:CE1	2.74	0.41
14:B0:101:CRT:H31	14:B0:101:CRT:H291	1.83	0.41
9:B0:102:BCL:HMB1	9:B0:102:BCL:HBB3	2.02	0.41
5:B3:28:GLN:HG3	9:B3:102:BCL:C2	2.50	0.41
5:B7:33:LEU:HG	14:B7:102:CRT:C35	2.51	0.41
6:B8:22:MET:CG	6:B8:26:TYR:HE2	2.33	0.41
5:BA:35:ILE:O	5:BA:36:HIS:C	2.59	0.41
14:BB:102:CRT:H36	14:BB:102:CRT:H341	1.83	0.41
1:BC:129:ARG:O	1:BC:132:GLU:N	2.53	0.41
1:BC:133:LEU:HD11	1:BC:279:ILE:HG12	2.02	0.41
1:BC:287:LEU:O	1:BC:290:VAL:HG22	2.21	0.41
5:BD:29:ILE:CG2	5:BD:30:VAL:N	2.84	0.41
4:BH:249:TYR:C	4:BH:251:THR:H	2.24	0.41
2:BL:228:ILE:HG23	3:BM:132:ARG:CD	2.51	0.41
2:BL:139:VAL:CG2	2:BL:258:LEU:HD22	2.51	0.41
2:BL:40:PHE:O	2:BL:41:CYS:C	2.60	0.41
3:BM:156:PHE:HD1	3:BM:281:GLY:HA2	1.86	0.41
3:BM:293:ASN:ND2	3:BM:296:LEU:HG	2.36	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:BN:101:BCL:HMB3	9:BO:102:BCL:C4A	2.51	0.41
9:BT:101:BCL:HBA1	9:BT:101:BCL:H3A	1.80	0.41
6:BT:45:TRP:HD1	6:BT:46:LEU:N	2.18	0.41
14:BU:103:CRT:H81	14:BU:103:CRT:H10	1.66	0.41
6:BV:24:SER:O	6:BV:27:ALA:HB3	2.20	0.41
9:BW:102:BCL:HMB1	9:BW:102:BCL:HBB2	2.03	0.41
5:BW:11:ILE:C	5:BW:13:LEU:H	2.24	0.41
9:BX:101:BCL:H172	6:BZ:38:LEU:HD21	2.03	0.41
6:AR:10:THR:H	6:AR:13:GLU:CD	2.25	0.41
3:AM:81:TRP:C	5:AU:41:SER:HB3	2.40	0.41
9:A1:102:BCL:CGD	9:A1:102:BCL:H2A	2.51	0.40
6:A4:10:THR:CG2	6:A4:11:ASP:H	2.18	0.40
6:A4:42:TYR:CD1	6:A4:43:ARG:HG3	2.56	0.40
6:A6:23:GLN:HG3	6:A6:24:SER:H	1.85	0.40
5:A7:7:ASN:CB	5:A7:10:LYS:HZ3	2.27	0.40
5:A7:11:ILE:HG12	5:A7:15:LEU:CD1	2.50	0.40
6:A8:22:MET:CG	6:A8:26:TYR:HE2	2.33	0.40
5:AA:8:LEU:HD21	6:AE:23:GLN:OE1	2.22	0.40
6:AB:44:PRO:O	5:AD:52:PRO:HG3	2.20	0.40
1:AC:166:TRP:HE1	1:AC:305:VAL:CA	2.33	0.40
1:AC:263:THR:HG22	3:AM:311:VAL:CB	2.49	0.40
4:AH:196:PRO:O	4:AH:197:ILE:C	2.59	0.40
9:AK:102:BCL:H161	9:AK:102:BCL:H202	1.90	0.40
3:AM:210:TYR:HB3	9:AM:401:BCL:H11	2.03	0.40
3:AM:251:PHE:HD1	3:AM:252:TRP:N	2.19	0.40
2:AL:29:PRO:O	3:AM:253:ARG:O	2.39	0.40
3:AM:40:LEU:HD23	3:AM:40:LEU:C	2.42	0.40
6:AN:43:ARG:HA	6:AN:44:PRO:HD2	1.94	0.40
5:AU:16:ASP:HB2	5:AU:19:ARG:HD3	2.02	0.40
5:AU:44:LEU:O	5:AU:44:LEU:HD12	2.21	0.40
6:B0:17:PHE:CE1	6:B0:21:PHE:HB3	2.57	0.40
5:B1:46:TRP:CD1	5:B1:47:LEU:N	2.89	0.40
1:BC:135:ARG:O	1:BC:137:ALA:N	2.54	0.40
1:BC:237:MET:O	1:BC:240:SER:N	2.54	0.40
5:BA:43:ASP:O	5:BD:48:ASP:HB3	2.21	0.40
9:BE:101:BCL:C1C	9:BF:102:BCL:HBB3	2.50	0.40
4:BH:253:GLU:O	4:BH:254:ARG:C	2.59	0.40
4:BH:28:ILE:O	4:BH:31:ARG:N	2.54	0.40
9:BJ:101:BCL:HMB3	9:BK:102:BCL:C4A	2.51	0.40
6:BJ:27:ALA:O	6:BJ:31:LEU:HG	2.21	0.40
2:BL:192:ASN:HA	2:BL:245:LEU:HD13	2.03	0.40
2:BL:240:ARG:HG2	3:BM:224:LEU:HD21	2.04	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:BL:185:ALA:CB	2:BL:252:TRP:HB3	2.47	0.40
2:BL:278:LEU:O	2:BL:280:LEU:N	2.51	0.40
2:BL:177:HIS:CB	3:BM:183:LEU:CD2	2.92	0.40
2:BL:30:PHE:CZ	3:BM:257:GLY:HA3	2.55	0.40
5:BQ:43:ASP:OD1	5:BQ:44:LEU:CD2	2.69	0.40
5:BS:43:ASP:HB3	5:BU:56:GLN:CB	2.50	0.40
5:BW:21:LEU:HD11	9:BW:102:BCL:H142	2.04	0.40
5:BW:39:VAL:HG22	5:BY:47:LEU:HD11	2.03	0.40
9:BY:102:BCL:HMD2	6:BZ:36:HIS:HD2	1.86	0.40
4:BH:173:ASP:CG	4:BH:175:SER:H	2.23	0.40
2:AL:78:PRO:HG2	2:AL:152:GLY:CA	2.52	0.40
1:AC:26:PRO:HB3	2:AL:262:PRO:O	2.21	0.40
2:AL:147:LEU:O	2:AL:262:PRO:HG3	2.21	0.40
2:AL:150:ALA:O	2:AL:153:HIS:CB	2.69	0.40
2:AL:54:ALA:C	2:AL:68:TYR:HE1	2.25	0.40
1:BC:50:ALA:O	1:BC:51:LEU:C	2.59	0.40
1:BC:31:GLU:O	1:BC:33:ILE:HD12	2.21	0.40
1:BC:70:PRO:HB2	1:BC:71:LYS:HD2	2.03	0.40
1:AC:33:ILE:CD1	1:AC:33:ILE:N	2.84	0.40
5:A1:33:LEU:O	5:A1:37:MET:HB2	2.21	0.40
5:A5:21:LEU:HD11	9:A5:102:BCL:H142	1.97	0.40
5:A7:50:ASN:ND2	5:A7:51:ILE:HG12	2.37	0.40
9:AA:101:BCL:H92	6:AB:28:TRP:CE3	2.56	0.40
1:AC:48:GLN:O	1:AC:50:ALA:N	2.54	0.40
5:AD:35:ILE:O	5:AD:38:ILE:HG22	2.21	0.40
5:AA:49:ASP:O	5:AD:55:TYR:O	2.39	0.40
9:AF:102:BCL:HMB1	9:AF:102:BCL:HBB2	2.03	0.40
6:AG:32:VAL:HG11	9:AG:101:BCL:CBA	2.18	0.40
5:AK:40:LEU:O	5:AK:45:ASN:HA	2.20	0.40
5:AK:47:LEU:H	5:AK:47:LEU:CD2	2.31	0.40
2:AL:246:ALA:CB	3:AM:217:ALA:HB2	2.51	0.40
2:AL:261:GLY:C	2:AL:263:PHE:H	2.25	0.40
9:AL:301:BCL:H201	9:AM:401:BCL:H72	2.03	0.40
2:AL:4:LEU:H	2:AL:7:GLU:HB3	1.87	0.40
2:AL:233:ILE:O	3:AM:44:GLY:HA3	2.21	0.40
9:AK:102:BCL:C3D	9:AN:101:BCL:CMD	3.00	0.40
5:AQ:30:VAL:HG13	5:AQ:31:LEU:H	1.84	0.40
5:AQ:38:ILE:O	5:AQ:42:THR:HG22	2.21	0.40
9:AT:101:BCL:HBB2	9:AT:101:BCL:HMB1	2.00	0.40
6:AT:29:PHE:CA	6:AT:32:VAL:HG12	2.52	0.40
5:AW:36:HIS:NE2	9:AX:101:BCL:CMD	2.79	0.40
5:AW:50:ASN:CG	5:AW:51:ILE:N	2.74	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:B5:30:VAL:O	5:B5:34:LEU:N	2.53	0.40
6:B8:24:SER:O	6:B8:27:ALA:N	2.54	0.40
14:BA:102:CRT:H11	6:BE:17:PHE:CE1	2.52	0.40
5:BA:11:ILE:HD13	14:BA:102:CRT:C10	2.51	0.40
9:BA:101:BCL:CAD	9:BB:101:BCL:CAD	3.00	0.40
9:BB:101:BCL:HBA1	9:BB:101:BCL:H3A	1.64	0.40
1:BC:24:GLU:HG3	2:BL:266:ARG:HH22	1.86	0.40
1:BC:252:ASN:HB3	1:BC:255:ALA:HB3	2.03	0.40
1:BC:304:ARG:HB3	1:BC:305:VAL:H	1.59	0.40
4:BH:16:ILE:HD13	4:BH:16:ILE:C	2.41	0.40
4:BH:52:ARG:HB2	4:BH:54:LYS:HZ2	1.84	0.40
4:BH:36:ARG:NE	4:BH:65:LYS:HD2	2.34	0.40
5:BI:14:ILE:HG23	5:BK:18:ARG:HB3	2.02	0.40
2:BL:235:ALA:HA	11:BL:304:UQ8:C3M	2.50	0.40
2:BL:78:PRO:HG2	2:BL:152:GLY:HA3	2.04	0.40
3:BM:186:THR:HG23	3:BM:187:ALA:N	2.32	0.40
3:BM:218:MET:HG3	3:BM:218:MET:H	1.64	0.40
14:BM:406:CRT:H20	14:BM:406:CRT:H181	1.87	0.40
9:BO:102:BCL:H202	9:BO:102:BCL:H161	1.95	0.40
6:BP:21:PHE:HE1	6:BP:25:MET:HB2	1.86	0.40
6:BP:22:MET:HG3	6:BP:26:TYR:HE2	1.86	0.40
5:BQ:50:ASN:CG	5:BQ:51:ILE:N	2.75	0.40
9:BS:102:BCL:C2D	9:BT:101:BCL:HMD2	2.50	0.40
14:BU:103:CRT:H2M3	5:BY:36:HIS:HB3	2.03	0.40
9:BW:102:BCL:CAC	9:BX:101:BCL:HBC3	2.51	0.40
5:AI:18:ARG:H	5:AI:18:ARG:HG2	1.63	0.40
1:AC:148:THR:CG2	1:AC:322:GLN:HA	2.38	0.40
5:AK:16:ASP:HA	5:AK:17:PRO:HD2	1.94	0.40
1:BC:98:THR:HG22	1:BC:99:THR:N	2.37	0.40
5:A3:12:TRP:CE3	5:A3:12:TRP:CA	3.04	0.40
3:BM:62:PHE:O	3:BM:66:VAL:HG23	2.21	0.40
3:AM:262:MET:HG3	3:AM:262:MET:O	2.21	0.40
4:AH:138:VAL:C	4:AH:140:LYS:H	2.23	0.40
14:A0:101:CRT:H10	14:A0:101:CRT:H81	1.64	0.40
6:A0:17:PHE:HA	6:A0:20:ILE:HG22	2.03	0.40
5:AY:27:PHE:CE2	5:A1:29:ILE:CD1	3.04	0.40
6:A2:46:LEU:OXT	6:A4:43:ARG:NH2	2.49	0.40
4:AH:259:LEU:HD21	5:A5:19:ARG:O	2.19	0.40
6:A4:43:ARG:NH1	5:A5:55:TYR:HB2	2.37	0.40
5:A9:2:PHE:HB2	5:A9:3:THR:H	1.58	0.40
6:A8:44:PRO:C	5:A9:52:PRO:HG2	2.41	0.40
5:AA:27:PHE:C	5:AA:30:VAL:HG12	2.41	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AB:102:CRT:H36	14:AB:102:CRT:H341	1.91	0.40
1:AC:311:HIS:CE1	1:AC:317:PRO:HD3	2.56	0.40
1:AC:46:LYS:O	1:AC:48:GLN:N	2.55	0.40
5:AD:51:ILE:CG2	5:AD:52:PRO:HA	2.52	0.40
9:AE:101:BCL:HMA1	9:AF:102:BCL:HMA1	2.02	0.40
9:AG:101:BCL:HMB3	9:AI:102:BCL:C1B	2.51	0.40
6:AG:24:SER:C	6:AG:26:TYR:N	2.75	0.40
3:AM:242:GLY:HA2	4:AH:117:PRO:CG	2.51	0.40
4:AH:184:VAL:HG21	4:AH:195:LEU:HB2	2.04	0.40
5:AI:34:LEU:O	5:AI:37:MET:N	2.51	0.40
6:AJ:22:MET:O	6:AJ:25:MET:HB3	2.22	0.40
6:AJ:33:VAL:CG1	6:AJ:34:ILE:N	2.83	0.40
9:AK:102:BCL:HMD2	9:AN:101:BCL:C1D	2.49	0.40
2:AL:37:VAL:HG23	2:AL:38:VAL:N	2.32	0.40
6:AN:43:ARG:HD2	5:AO:55:TYR:HE2	1.85	0.40
5:AO:22:VAL:HA	5:AO:25:VAL:CG2	2.51	0.40
5:AO:29:ILE:HG23	5:AO:30:VAL:N	2.36	0.40
5:AS:42:THR:CG2	5:AS:43:ASP:N	2.84	0.40
5:AU:14:ILE:HB	14:AX:102:CRT:H83	2.03	0.40
5:AU:12:TRP:HD1	6:AV:18:HIS:HB2	1.87	0.40
6:AX:21:PHE:CE2	14:AX:102:CRT:C16	3.04	0.40
5:AY:8:LEU:HD13	6:AZ:22:MET:HE1	2.03	0.40
5:B5:16:ASP:H	5:B5:19:ARG:HG3	1.86	0.40
14:BB:102:CRT:H81	14:BB:102:CRT:H10	1.97	0.40
6:BB:9:LEU:HA	6:BB:13:GLU:OE1	2.21	0.40
1:BC:80:GLN:CG	1:BC:128:ARG:HH22	2.31	0.40
1:BC:219:ALA:HB2	3:BM:290:VAL:O	2.22	0.40
9:BB:101:BCL:HMB3	9:BD:102:BCL:C1B	2.51	0.40
5:BF:9:TYR:CE1	6:BG:15:LYS:HG3	2.57	0.40
2:BL:160:LEU:O	2:BL:163:LEU:HD13	2.21	0.40
2:BL:229:VAL:HG23	2:BL:231:TYR:H	1.85	0.40
2:BL:268:TRP:HB2	2:BL:269:PRO:HD3	2.03	0.40
3:BM:172:ALA:C	3:BM:174:ALA:H	2.24	0.40
3:BM:184:ASP:O	3:BM:185:TRP:C	2.59	0.40
3:BM:265:ILE:CG2	3:BM:266:HIS:H	2.30	0.40
3:BM:208:PHE:CZ	3:BM:275:LEU:HB3	2.56	0.40
3:BM:205:SER:OG	3:BM:280:ALA:N	2.55	0.40
3:BM:285:LEU:HA	3:BM:285:LEU:HD12	1.75	0.40
3:BM:297:TRP:HZ2	4:BH:13:GLN:HB2	1.84	0.40
3:BM:40:LEU:HD23	3:BM:40:LEU:O	2.21	0.40
2:BL:276:LEU:O	3:BM:88:LYS:HE3	2.20	0.40
5:BU:13:LEU:HD22	6:BV:9:LEU:CB	2.48	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BU:35:ILE:HA	5:BU:38:ILE:CG2	2.51	0.40
3:BM:84:PHE:CE1	5:BU:38:ILE:HD12	2.56	0.40
6:BV:20:ILE:HG23	6:BV:21:PHE:N	2.36	0.40
9:BW:102:BCL:CED	6:BX:31:LEU:O	2.70	0.40
5:BY:35:ILE:C	5:BY:37:MET:N	2.71	0.40
5:BO:18:ARG:CZ	5:BO:18:ARG:HB2	2.48	0.40
6:BN:22:MET:O	6:BN:25:MET:HB3	2.21	0.40
5:BF:33:LEU:O	5:BF:37:MET:CG	2.69	0.40
6:AT:30:GLY:HA2	6:AT:33:VAL:HG12	2.04	0.40
2:BL:82:TYR:HB3	2:BL:85:ARG:CG	2.51	0.40
1:AC:107:CYS:O	1:AC:109:TYR:N	2.55	0.40
3:AM:145:HIS:O	3:AM:270:TRP:NE1	2.42	0.40
5:A1:46:TRP:CZ2	9:A1:102:BCL:CHC	3.03	0.40
9:A2:101:BCL:O1D	9:A2:101:BCL:H2A	2.20	0.40
6:A2:20:ILE:HG21	14:A2:102:CRT:H83	2.04	0.40
5:A5:20:VAL:HB	9:A7:103:BCL:H202	2.02	0.40
6:AB:28:TRP:CE3	6:AB:31:LEU:HD12	2.56	0.40
6:AE:45:TRP:CD1	6:AE:46:LEU:N	2.90	0.40
6:AJ:17:PHE:C	6:AJ:20:ILE:HG22	2.41	0.40
2:AL:225:PHE:C	2:AL:227:ASP:H	2.23	0.40
2:AL:228:ILE:O	3:AM:51:ILE:HD11	2.21	0.40
2:AL:268:TRP:N	2:AL:269:PRO:CD	2.85	0.40
3:AM:296:LEU:O	3:AM:297:TRP:C	2.59	0.40
14:AN:102:CRT:H2M3	5:AO:36:HIS:CB	2.51	0.40
5:AK:9:TYR:CE1	6:AN:11:ASP:O	2.75	0.40
9:AQ:102:BCL:CAD	6:AR:35:ALA:CB	2.99	0.40
9:AP:101:BCL:CHB	9:AQ:102:BCL:HMB3	2.52	0.40
3:AM:59:LEU:HD13	5:AQ:29:ILE:HG21	1.99	0.40
5:AS:35:ILE:O	5:AS:39:VAL:HG23	2.21	0.40
5:AU:35:ILE:O	5:AU:38:ILE:HG22	2.20	0.40
9:AU:102:BCL:HMD2	9:AV:102:BCL:CHD	2.51	0.40
6:AX:21:PHE:CD2	14:AX:102:CRT:C14	3.04	0.40
6:AX:40:TRP:HA	6:AX:45:TRP:CZ3	2.57	0.40
5:AY:8:LEU:CD1	6:AZ:22:MET:HE1	2.51	0.40
9:B0:102:BCL:HBA1	9:B0:102:BCL:H3A	1.85	0.40
6:B4:28:TRP:HA	6:B4:31:LEU:HB2	2.02	0.40
9:B7:103:BCL:CMD	9:B8:101:BCL:C1D	2.97	0.40
14:BA:102:CRT:H181	14:BA:102:CRT:H20	1.92	0.40
5:BA:10:LYS:C	14:BA:102:CRT:H82	2.42	0.40
1:BC:236:MET:CE	7:BC:503:HEM:ND	2.84	0.40
1:BC:266:ARG:O	1:BC:267:THR:C	2.60	0.40
9:BD:102:BCL:HMD1	6:BE:36:HIS:CD2	2.56	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:BD:38:ILE:HG12	5:BD:38:ILE:O	2.21	0.40
14:BF:103:CRT:H2M3	5:BK:36:HIS:HB3	2.03	0.40
5:BI:39:VAL:C	5:BI:41:SER:N	2.74	0.40
9:BK:102:BCL:O1D	9:BK:102:BCL:C2A	2.68	0.40
2:BL:231:TYR:CE1	2:BL:233:ILE:HA	2.55	0.40
2:BL:139:VAL:HG21	2:BL:258:LEU:HD22	2.03	0.40
3:BM:122:LEU:O	3:BM:126:ILE:HD12	2.21	0.40
3:BM:187:ALA:O	3:BM:191:ILE:HG12	2.21	0.40
9:BO:102:BCL:C4D	9:BP:101:BCL:CMD	2.99	0.40
9:BM:402:BCL:H151	15:BQ:101:PEF:H453	2.02	0.40
9:BQ:103:BCL:ND	9:BQ:104:BCL:HMD1	2.37	0.40
5:BU:9:TYR:HB2	6:BV:15:LYS:CD	2.52	0.40
14:BU:103:CRT:H31	9:BY:102:BCL:H3A	2.03	0.40
3:BM:104:LEU:HD21	3:BM:169:GLY:HA3	2.03	0.40
3:BM:11:VAL:HA	4:BH:148:ASP:CG	2.41	0.40
4:BH:123:CYS:SG	4:BH:231:VAL:C	3.00	0.40
1:AC:135:ARG:HH11	1:AC:135:ARG:HB3	1.85	0.40
1:BC:151:THR:HG21	1:BC:323:MET:CB	2.51	0.40
1:BC:153:TYR:O	1:BC:157:ARG:CG	2.69	0.40
4:AH:105:ASP:HB3	4:AH:108:LEU:HD21	2.04	0.40
1:BC:85:LEU:HD22	1:BC:89:GLU:CG	2.45	0.40
5:BK:31:LEU:O	5:BK:34:LEU:HB3	2.22	0.40
2:BL:172:GLN:HG3	2:BL:172:GLN:O	2.21	0.40
5:A1:38:ILE:HG23	5:A1:39:VAL:H	1.87	0.40
9:A5:102:BCL:HMB1	9:A5:102:BCL:HBB3	2.03	0.40
5:A5:44:LEU:O	5:A5:46:TRP:N	2.47	0.40
14:A7:102:CRT:H291	9:A7:103:BCL:O2A	2.21	0.40
6:A8:22:MET:O	6:A8:26:TYR:CD2	2.71	0.40
6:A8:30:GLY:O	6:A8:33:VAL:HG12	2.21	0.40
6:A8:46:LEU:HB3	6:A0:42:TYR:HH	1.87	0.40
2:AL:49:LEU:CD2	5:A9:37:MET:HG2	2.51	0.40
9:AA:101:BCL:C1B	9:A0:102:BCL:CMB	2.99	0.40
1:AC:248:THR:OG1	1:AC:249:PHE:N	2.54	0.40
1:AC:205:ASP:CB	1:AC:304:ARG:HE	2.29	0.40
5:AD:52:PRO:C	5:AD:54:SER:N	2.73	0.40
5:AF:36:HIS:CE1	9:AF:102:BCL:NA	2.89	0.40
4:AH:173:ASP:C	4:AH:173:ASP:OD1	2.59	0.40
5:AI:50:ASN:OD1	5:AI:51:ILE:N	2.50	0.40
5:AI:9:TYR:CA	6:AJ:18:HIS:CE1	2.79	0.40
5:AK:29:ILE:HB	9:AK:102:BCL:C4	2.47	0.40
2:AL:247:LEU:HA	2:AL:247:LEU:HD23	1.86	0.40
9:AL:301:BCL:H161	9:AM:401:BCL:H161	2.03	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AL:304:UQ8:H15	11:AL:304:UQ8:H12A	1.90	0.40
3:AM:265:ILE:HD12	3:AM:265:ILE:HA	1.66	0.40
3:AM:177:PHE:CZ	14:AM:406:CRT:H25	2.57	0.40
5:AU:18:ARG:CD	5:AU:18:ARG:N	2.82	0.40
5:AU:43:ASP:HA	5:AW:47:LEU:O	2.21	0.40
5:AW:8:LEU:O	5:AW:11:ILE:CG1	2.70	0.40
6:AX:29:PHE:CE1	9:AX:101:BCL:H11	2.56	0.40
5:B9:12:TRP:HZ2	6:B0:18:HIS:HD1	1.62	0.40
5:B1:46:TRP:CH2	9:B1:102:BCL:HBC3	2.56	0.40
9:B3:102:BCL:HMD1	6:B4:36:HIS:CG	2.56	0.40
5:B3:5:ASN:HA	5:B3:8:LEU:HG	2.03	0.40
5:B7:46:TRP:CH2	9:B7:103:BCL:H2C	2.56	0.40
6:B8:30:GLY:O	6:B8:33:VAL:HG12	2.22	0.40
5:B7:42:THR:CB	5:B9:48:ASP:OD1	2.70	0.40
9:BB:101:BCL:HBB3	9:BD:102:BCL:CHC	2.52	0.40
9:BA:101:BCL:CBC	9:BB:101:BCL:HHD	2.50	0.40
1:BC:231:TRP:O	1:BC:232:THR:C	2.58	0.40
1:BC:293:ALA:HA	1:BC:296:LYS:HD2	2.03	0.40
5:BK:38:ILE:HG23	5:BK:39:VAL:HG23	2.03	0.40
2:BL:126:VAL:CB	2:BL:127:PRO:HD3	2.44	0.40
2:BL:171:TYR:O	2:BL:174:LEU:N	2.44	0.40
2:BL:253:SER:C	9:BL:301:BCL:CED	2.86	0.40
2:BL:44:LEU:O	2:BL:46:GLY:N	2.48	0.40
3:BM:247:ARG:HG3	3:BM:247:ARG:H	1.67	0.40
3:BM:284:ILE:HG12	9:BM:402:BCL:CED	2.52	0.40
2:BL:240:ARG:NH1	3:BM:7:ILE:O	2.54	0.40
5:BQ:52:PRO:O	5:BQ:53:VAL:C	2.59	0.40
5:BS:17:PRO:HA	5:BS:20:VAL:CG2	2.52	0.40
5:BS:4:MET:C	5:BS:6:ALA:H	2.24	0.40
5:BU:13:LEU:HD22	6:BV:9:LEU:C	2.42	0.40
5:BU:35:ILE:O	5:BU:38:ILE:CG2	2.67	0.40
5:BW:10:LYS:C	14:BW:103:CRT:H82	2.41	0.40
6:BX:28:TRP:HE3	6:BX:31:LEU:HD12	1.86	0.40
4:BH:173:ASP:OD2	4:BH:176:GLU:HG2	2.21	0.40
4:BH:153:GLY:H	4:BH:167:VAL:HG23	1.85	0.40
5:BU:44:LEU:HD13	6:BV:43:ARG:CD	2.51	0.40
5:B3:53:VAL:O	5:B3:54:SER:CB	2.69	0.40
5:AK:31:LEU:HA	5:AK:34:LEU:HB3	2.03	0.40
6:B8:10:THR:HG22	6:B8:11:ASP:H	1.85	0.40
4:BH:203:ASP:C	4:BH:205:LYS:H	2.25	0.40
5:B7:13:LEU:O	6:B8:7:THR:CA	2.70	0.40
6:BE:31:LEU:C	6:BE:34:ILE:HG22	2.41	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AH:206:ALA:C	4:AH:208:LYS:H	2.25	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	AC	315/404 (78%)	195 (62%)	75 (24%)	45 (14%)	0	1
1	BC	315/404 (78%)	192 (61%)	87 (28%)	36 (11%)	1	3
2	AL	278/281 (99%)	137 (49%)	97 (35%)	44 (16%)	0	1
2	BL	278/281 (99%)	149 (54%)	97 (35%)	32 (12%)	1	3
3	AM	317/325 (98%)	162 (51%)	94 (30%)	61 (19%)	0	0
3	BM	317/325 (98%)	188 (59%)	85 (27%)	44 (14%)	0	2
4	AH	256/259 (99%)	162 (63%)	73 (28%)	21 (8%)	1	6
4	BH	256/259 (99%)	166 (65%)	66 (26%)	24 (9%)	1	5
5	A1	56/61 (92%)	43 (77%)	9 (16%)	4 (7%)	2	9
5	A3	55/61 (90%)	45 (82%)	7 (13%)	3 (6%)	3	16
5	A5	54/61 (88%)	42 (78%)	10 (18%)	2 (4%)	5	28
5	A7	49/61 (80%)	35 (71%)	11 (22%)	3 (6%)	2	14
5	A9	58/61 (95%)	47 (81%)	10 (17%)	1 (2%)	14	54
5	AA	46/61 (75%)	33 (72%)	11 (24%)	2 (4%)	4	23
5	AD	55/61 (90%)	40 (73%)	12 (22%)	3 (6%)	3	16
5	AF	57/61 (93%)	41 (72%)	13 (23%)	3 (5%)	3	18
5	AI	57/61 (93%)	47 (82%)	6 (10%)	4 (7%)	2	9
5	AK	56/61 (92%)	44 (79%)	10 (18%)	2 (4%)	5	29
5	AO	57/61 (93%)	46 (81%)	6 (10%)	5 (9%)	1	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	AQ	55/61 (90%)	36 (66%)	17 (31%)	2 (4%)	5	29
5	AS	57/61 (93%)	46 (81%)	7 (12%)	4 (7%)	2	9
5	AU	58/61 (95%)	43 (74%)	11 (19%)	4 (7%)	2	9
5	AW	58/61 (95%)	45 (78%)	8 (14%)	5 (9%)	1	5
5	AY	58/61 (95%)	43 (74%)	11 (19%)	4 (7%)	2	9
5	B1	52/61 (85%)	34 (65%)	11 (21%)	7 (14%)	0	2
5	B3	58/61 (95%)	38 (66%)	16 (28%)	4 (7%)	2	9
5	B5	49/61 (80%)	35 (71%)	10 (20%)	4 (8%)	1	6
5	B7	52/61 (85%)	40 (77%)	10 (19%)	2 (4%)	5	27
5	B9	49/61 (80%)	33 (67%)	14 (29%)	2 (4%)	4	24
5	BA	53/61 (87%)	29 (55%)	20 (38%)	4 (8%)	2	8
5	BD	43/61 (70%)	32 (74%)	8 (19%)	3 (7%)	2	9
5	BF	54/61 (88%)	42 (78%)	11 (20%)	1 (2%)	12	51
5	BI	48/61 (79%)	32 (67%)	13 (27%)	3 (6%)	2	12
5	BK	58/61 (95%)	43 (74%)	12 (21%)	3 (5%)	3	18
5	BO	57/61 (93%)	46 (81%)	11 (19%)	0	100	100
5	BQ	57/61 (93%)	41 (72%)	14 (25%)	2 (4%)	6	30
5	BS	57/61 (93%)	45 (79%)	9 (16%)	3 (5%)	3	18
5	BU	56/61 (92%)	43 (77%)	12 (21%)	1 (2%)	13	53
5	BW	56/61 (92%)	38 (68%)	14 (25%)	4 (7%)	2	9
5	BY	52/61 (85%)	30 (58%)	16 (31%)	6 (12%)	1	3
6	A0	38/47 (81%)	30 (79%)	7 (18%)	1 (3%)	8	39
6	A2	38/47 (81%)	29 (76%)	8 (21%)	1 (3%)	8	39
6	A4	38/47 (81%)	31 (82%)	6 (16%)	1 (3%)	8	39
6	A6	38/47 (81%)	35 (92%)	3 (8%)	0	100	100
6	A8	38/47 (81%)	27 (71%)	10 (26%)	1 (3%)	8	39
6	AB	38/47 (81%)	33 (87%)	5 (13%)	0	100	100
6	AE	38/47 (81%)	33 (87%)	5 (13%)	0	100	100
6	AG	38/47 (81%)	32 (84%)	5 (13%)	1 (3%)	8	39
6	AJ	38/47 (81%)	29 (76%)	9 (24%)	0	100	100
6	AN	38/47 (81%)	35 (92%)	3 (8%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	AP	38/47 (81%)	28 (74%)	10 (26%)	0	100	100
6	AR	38/47 (81%)	31 (82%)	7 (18%)	0	100	100
6	AT	38/47 (81%)	30 (79%)	5 (13%)	3 (8%)	1	7
6	AV	38/47 (81%)	35 (92%)	2 (5%)	1 (3%)	8	39
6	AX	38/47 (81%)	32 (84%)	6 (16%)	0	100	100
6	AZ	38/47 (81%)	29 (76%)	9 (24%)	0	100	100
6	B0	38/47 (81%)	30 (79%)	8 (21%)	0	100	100
6	B2	38/47 (81%)	31 (82%)	7 (18%)	0	100	100
6	B4	38/47 (81%)	32 (84%)	6 (16%)	0	100	100
6	B6	38/47 (81%)	35 (92%)	3 (8%)	0	100	100
6	B8	38/47 (81%)	27 (71%)	10 (26%)	1 (3%)	8	39
6	BB	38/47 (81%)	33 (87%)	5 (13%)	0	100	100
6	BE	38/47 (81%)	32 (84%)	6 (16%)	0	100	100
6	BG	38/47 (81%)	32 (84%)	6 (16%)	0	100	100
6	BJ	38/47 (81%)	29 (76%)	9 (24%)	0	100	100
6	BN	38/47 (81%)	35 (92%)	3 (8%)	0	100	100
6	BP	38/47 (81%)	25 (66%)	12 (32%)	1 (3%)	8	39
6	BR	38/47 (81%)	31 (82%)	7 (18%)	0	100	100
6	BT	38/47 (81%)	30 (79%)	5 (13%)	3 (8%)	1	7
6	BV	38/47 (81%)	36 (95%)	2 (5%)	0	100	100
6	BX	38/47 (81%)	32 (84%)	6 (16%)	0	100	100
6	BZ	38/47 (81%)	31 (82%)	7 (18%)	0	100	100
All	All	5285/5994 (88%)	3628 (69%)	1236 (23%)	421 (8%)	1	7

All (421) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AC	64	ALA
1	AC	70	PRO
1	AC	97	VAL
1	AC	138	ASN
1	AC	154	THR
1	AC	173	LYS
1	AC	188	LYS

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Mol	Chain	Res	Type
1	AC	253	THR
1	AC	262	SER
1	AC	287	LEU
1	AC	317	PRO
2	AL	11	ARG
2	AL	58	PRO
2	AL	141	VAL
2	AL	204	LEU
2	AL	210	GLN
2	AL	216	LYS
2	AL	222	ASN
2	AL	277	GLU
3	AM	6	ASN
3	AM	10	ALA
3	AM	24	PRO
3	AM	81	TRP
3	AM	93	LEU
3	AM	196	LEU
3	AM	234	GLU
3	AM	235	ILE
3	AM	241	ARG
3	AM	248	ALA
3	AM	258	PHE
4	AH	5	ILE
4	AH	18	ALA
4	AH	36	ARG
4	AH	55	VAL
4	AH	250	ALA
5	AD	41	SER
5	AD	44	LEU
5	AI	44	LEU
5	AO	46	TRP
5	AO	49	ASP
5	AQ	46	TRP
5	AQ	49	ASP
5	AS	54	SER
5	AU	43	ASP
5	AU	60	LYS
5	AW	43	ASP
5	A1	50	ASN
6	A2	12	ASP
5	A3	43	ASP

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Mol	Chain	Res	Type
5	A3	47	LEU
5	A9	43	ASP
1	BC	70	PRO
1	BC	97	VAL
1	BC	157	ARG
1	BC	173	LYS
1	BC	188	LYS
1	BC	233	PHE
1	BC	253	THR
1	BC	262	SER
1	BC	287	LEU
1	BC	317	PRO
2	BL	11	ARG
2	BL	58	PRO
2	BL	120	LEU
2	BL	141	VAL
2	BL	189	PHE
2	BL	210	GLN
2	BL	244	PHE
2	BL	256	CYS
3	BM	6	ASN
3	BM	10	ALA
3	BM	16	PRO
3	BM	24	PRO
3	BM	34	PRO
3	BM	81	TRP
3	BM	93	LEU
3	BM	162	PHE
3	BM	248	ALA
3	BM	308	PRO
4	BH	36	ARG
4	BH	250	ALA
5	BD	44	LEU
5	BI	43	ASP
5	BI	53	VAL
5	BK	54	SER
5	BW	43	ASP
5	BW	51	ILE
5	BY	49	ASP
5	B1	54	SER
5	B3	3	THR
5	B3	4	MET

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Mol	Chain	Res	Type
5	B3	43	ASP
5	B3	53	VAL
5	B5	46	TRP
5	B9	43	ASP
1	AC	22	GLY
1	AC	157	ARG
1	AC	206	GLN
1	AC	266	ARG
1	AC	278	ASP
1	AC	294	SER
1	AC	303	LEU
1	AC	304	ARG
2	AL	8	LYS
2	AL	12	VAL
2	AL	81	SER
2	AL	102	ALA
2	AL	120	LEU
2	AL	139	VAL
2	AL	169	VAL
2	AL	182	HIS
2	AL	189	PHE
2	AL	200	GLY
2	AL	215	VAL
2	AL	242	GLY
2	AL	244	PHE
2	AL	256	CYS
3	AM	4	TYR
3	AM	16	PRO
3	AM	34	PRO
3	AM	78	SER
3	AM	80	HIS
3	AM	103	GLY
3	AM	111	GLU
3	AM	132	ARG
3	AM	173	LYS
3	AM	176	PRO
3	AM	192	ARG
3	AM	194	GLY
3	AM	244	ALA
3	AM	249	ALA
3	AM	266	HIS
3	AM	269	ALA

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Mol	Chain	Res	Type
3	AM	270	TRP
3	AM	280	ALA
3	AM	281	GLY
4	AH	112	GLY
4	AH	132	LYS
4	AH	146	GLU
4	AH	171	TRP
4	AH	172	VAL
4	AH	186	VAL
4	AH	204	LYS
4	AH	241	ALA
4	AH	254	ARG
5	AF	46	TRP
5	AF	49	ASP
5	AK	46	TRP
5	AU	9	TYR
5	AW	46	TRP
5	AY	43	ASP
5	AY	46	TRP
5	AY	53	VAL
5	A1	43	ASP
5	A7	46	TRP
6	A8	42	TYR
1	BC	22	GLY
1	BC	54	GLN
1	BC	64	ALA
1	BC	108	ASN
1	BC	154	THR
1	BC	185	TYR
1	BC	258	ASP
1	BC	278	ASP
1	BC	279	ILE
2	BL	83	GLY
2	BL	165	TRP
2	BL	168	ASN
2	BL	182	HIS
2	BL	193	CYS
2	BL	222	ASN
2	BL	260	SER
3	BM	9	THR
3	BM	65	LEU
3	BM	78	SER

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Mol	Chain	Res	Type
3	BM	80	HIS
3	BM	103	GLY
3	BM	132	ARG
3	BM	175	VAL
3	BM	176	PRO
3	BM	216	PHE
3	BM	230	GLY
3	BM	235	ILE
3	BM	244	ALA
3	BM	245	ALA
3	BM	249	ALA
3	BM	262	MET
3	BM	287	SER
3	BM	290	VAL
4	BH	24	PHE
4	BH	38	GLY
4	BH	53	VAL
4	BH	55	VAL
4	BH	112	GLY
4	BH	146	GLU
4	BH	177	PRO
4	BH	186	VAL
4	BH	204	LYS
4	BH	253	GLU
4	BH	254	ARG
5	BA	5	ASN
5	BA	43	ASP
5	BA	53	VAL
5	BF	46	TRP
5	BI	46	TRP
5	BK	46	TRP
5	BQ	54	SER
5	BS	54	SER
5	BU	43	ASP
5	BW	5	ASN
5	BY	43	ASP
5	BY	46	TRP
5	B1	43	ASP
5	B1	49	ASP
5	B1	60	LYS
5	B5	3	THR
5	B5	47	LEU

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Mol	Chain	Res	Type
6	B8	42	TYR
1	AC	108	ASN
1	AC	115	ASN
1	AC	185	TYR
1	AC	233	PHE
1	AC	258	ASP
1	AC	260	THR
2	AL	117	CYS
2	AL	172	GLN
2	AL	199	HIS
2	AL	219	GLU
2	AL	262	PRO
2	AL	275	TRP
3	AM	9	THR
3	AM	45	ASP
3	AM	79	VAL
3	AM	175	VAL
3	AM	205	SER
3	AM	216	PHE
3	AM	290	VAL
3	AM	308	PRO
4	AH	38	GLY
4	AH	129	GLY
4	AH	177	PRO
4	AH	253	GLU
5	AA	43	ASP
5	AA	46	TRP
5	AI	49	ASP
5	AO	50	ASN
5	AO	52	PRO
6	AV	42	TYR
5	AW	47	LEU
5	AY	47	LEU
5	A5	46	TRP
6	A0	8	GLY
1	BC	113	PRO
1	BC	115	ASN
1	BC	138	ASN
1	BC	206	GLN
1	BC	266	ARG
1	BC	300	GLY
2	BL	149	GLY

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Mol	Chain	Res	Type
2	BL	219	GLU
2	BL	245	LEU
3	BM	45	ASP
3	BM	91	PHE
3	BM	111	GLU
3	BM	143	SER
3	BM	191	ILE
3	BM	192	ARG
3	BM	205	SER
3	BM	223	ILE
3	BM	277	VAL
5	BA	55	TYR
5	BD	9	TYR
5	BY	53	VAL
5	B1	50	ASN
5	B7	46	TRP
5	B9	6	ALA
1	AC	40	MET
1	AC	74	GLU
1	AC	191	ALA
1	AC	279	ILE
1	AC	300	GLY
1	AC	324	ALA
2	AL	174	LEU
2	AL	193	CYS
2	AL	197	SER
2	AL	245	LEU
2	AL	272	TRP
3	AM	91	PHE
3	AM	100	PRO
3	AM	147	SER
3	AM	162	PHE
3	AM	201	PHE
3	AM	239	THR
3	AM	245	ALA
3	AM	260	VAL
3	AM	262	MET
3	AM	265	ILE
3	AM	298	ALA
4	AH	136	MET
4	AH	163	VAL
5	AD	60	LYS

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Mol	Chain	Res	Type
5	AI	46	TRP
5	AS	60	LYS
6	AT	12	ASP
6	AT	42	TYR
6	AT	45	TRP
5	AW	52	PRO
6	A4	44	PRO
1	BC	236	MET
1	BC	273	ILE
2	BL	5	SER
2	BL	46	GLY
2	BL	81	SER
2	BL	181	ALA
2	BL	262	PRO
3	BM	164	ARG
3	BM	171	TRP
3	BM	260	VAL
4	BH	18	ALA
4	BH	107	MET
4	BH	129	GLY
4	BH	132	LYS
4	BH	171	TRP
5	BD	43	ASP
5	BQ	53	VAL
5	BS	60	LYS
6	BT	12	ASP
6	BT	42	TYR
6	BT	45	TRP
5	B7	41	SER
1	AC	47	ARG
1	AC	54	GLN
1	AC	113	PRO
1	AC	192	TYR
1	AC	239	ILE
1	AC	292	PRO
2	AL	46	GLY
2	AL	59	THR
3	AM	148	TRP
3	AM	164	ARG
3	AM	197	TYR
5	AF	45	ASN
6	AG	45	TRP

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Mol	Chain	Res	Type
5	AI	4	MET
5	AO	51	ILE
5	AS	44	LEU
5	AW	10	LYS
5	A1	47	LEU
5	A1	51	ILE
1	BC	47	ARG
1	BC	74	GLU
1	BC	125	VAL
1	BC	149	GLY
1	BC	294	SER
2	BL	12	VAL
2	BL	43	THR
2	BL	82	TYR
2	BL	93	GLY
2	BL	169	VAL
2	BL	174	LEU
2	BL	272	TRP
3	BM	20	GLY
3	BM	266	HIS
6	BP	31	LEU
5	BY	50	ASN
5	BY	54	SER
5	B1	55	TYR
5	B5	50	ASN
1	AC	149	GLY
1	AC	273	ILE
2	AL	92	GLY
2	AL	101	CYS
2	AL	121	GLY
2	AL	250	ALA
3	AM	90	PHE
3	AM	102	TYR
3	AM	135	LYS
3	AM	179	ILE
3	AM	264	SER
5	AU	11	ILE
5	A3	53	VAL
5	A7	49	ASP
1	BC	40	MET
1	BC	292	PRO
3	BM	7	ILE

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Mol	Chain	Res	Type
4	BH	209	VAL
4	BH	242	TYR
1	AC	198	ASP
2	AL	83	GLY
2	AL	159	ILE
2	AL	279	PRO
3	AM	20	GLY
5	AS	53	VAL
1	BC	234	GLY
1	BC	239	ILE
2	BL	139	VAL
3	BM	179	ILE
4	BH	163	VAL
1	AC	103	PRO
1	AC	125	VAL
2	AL	32	VAL
4	AH	209	VAL
2	BL	32	VAL
3	BM	28	LEU
4	BH	172	VAL
5	B1	53	VAL
1	AC	28	PRO
3	AM	282	ILE
5	AK	53	VAL
4	BH	4	GLY
5	BW	52	PRO
1	AC	87	VAL
1	AC	302	PRO
2	AL	47	VAL
3	AM	277	VAL
5	A7	17	PRO
4	BH	158	GLY
3	AM	28	LEU
5	A5	52	PRO
5	BK	52	PRO
5	BS	52	PRO

### 5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. 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	AC	265/317 (84%)	239 (90%)	26 (10%)	12	41
1	BC	265/317 (84%)	238 (90%)	27 (10%)	11	38
2	AL	228/229 (100%)	199 (87%)	29 (13%)	6	27
2	BL	228/229 (100%)	206 (90%)	22 (10%)	12	43
3	AM	256/261 (98%)	217 (85%)	39 (15%)	4	20
3	BM	256/261 (98%)	219 (86%)	37 (14%)	5	22
4	AH	210/211 (100%)	194 (92%)	16 (8%)	19	57
4	BH	210/211 (100%)	189 (90%)	21 (10%)	11	39
5	A1	48/56 (86%)	45 (94%)	3 (6%)	25	66
5	A3	47/56 (84%)	41 (87%)	6 (13%)	6	27
5	A5	48/56 (86%)	44 (92%)	4 (8%)	16	52
5	A7	48/56 (86%)	40 (83%)	8 (17%)	3	16
5	A9	50/56 (89%)	46 (92%)	4 (8%)	17	53
5	AA	44/56 (79%)	38 (86%)	6 (14%)	5	24
5	AD	47/56 (84%)	44 (94%)	3 (6%)	25	66
5	AF	49/56 (88%)	42 (86%)	7 (14%)	5	22
5	AI	49/56 (88%)	45 (92%)	4 (8%)	17	52
5	AK	48/56 (86%)	42 (88%)	6 (12%)	7	28
5	AO	49/56 (88%)	43 (88%)	6 (12%)	7	29
5	AQ	47/56 (84%)	43 (92%)	4 (8%)	15	51
5	AS	49/56 (88%)	44 (90%)	5 (10%)	11	38
5	AU	50/56 (89%)	43 (86%)	7 (14%)	5	23
5	AW	50/56 (89%)	45 (90%)	5 (10%)	11	39
5	AY	50/56 (89%)	43 (86%)	7 (14%)	5	23
5	B1	45/56 (80%)	43 (96%)	2 (4%)	39	82
5	B3	50/56 (89%)	46 (92%)	4 (8%)	17	53
5	B5	48/56 (86%)	45 (94%)	3 (6%)	25	66
5	B7	45/56 (80%)	41 (91%)	4 (9%)	14	48
5	B9	48/56 (86%)	46 (96%)	2 (4%)	40	83
5	BA	50/56 (89%)	45 (90%)	5 (10%)	11	39
5	BD	43/56 (77%)	42 (98%)	1 (2%)	63	93
5	BF	48/56 (86%)	43 (90%)	5 (10%)	10	37

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	BI	46/56 (82%)	40 (87%)	6 (13%)	6	26
5	BK	50/56 (89%)	44 (88%)	6 (12%)	7	30
5	BO	49/56 (88%)	45 (92%)	4 (8%)	17	52
5	BQ	50/56 (89%)	46 (92%)	4 (8%)	17	53
5	BS	49/56 (88%)	46 (94%)	3 (6%)	26	68
5	BU	50/56 (89%)	43 (86%)	7 (14%)	5	23
5	BW	48/56 (86%)	41 (85%)	7 (15%)	5	21
5	BY	45/56 (80%)	39 (87%)	6 (13%)	6	25
6	A0	33/39 (85%)	23 (70%)	10 (30%)	0	2
6	A2	33/39 (85%)	29 (88%)	4 (12%)	7	29
6	A4	33/39 (85%)	26 (79%)	7 (21%)	1	8
6	A6	33/39 (85%)	30 (91%)	3 (9%)	14	46
6	A8	33/39 (85%)	26 (79%)	7 (21%)	1	8
6	AB	33/39 (85%)	27 (82%)	6 (18%)	2	13
6	AE	33/39 (85%)	31 (94%)	2 (6%)	26	68
6	AG	33/39 (85%)	25 (76%)	8 (24%)	1	5
6	AJ	33/39 (85%)	28 (85%)	5 (15%)	4	20
6	AN	33/39 (85%)	27 (82%)	6 (18%)	2	13
6	AP	33/39 (85%)	28 (85%)	5 (15%)	4	20
6	AR	33/39 (85%)	28 (85%)	5 (15%)	4	20
6	AT	33/39 (85%)	28 (85%)	5 (15%)	4	20
6	AV	33/39 (85%)	28 (85%)	5 (15%)	4	20
6	AX	33/39 (85%)	29 (88%)	4 (12%)	7	29
6	AZ	33/39 (85%)	29 (88%)	4 (12%)	7	29
6	B0	33/39 (85%)	27 (82%)	6 (18%)	2	13
6	B2	33/39 (85%)	30 (91%)	3 (9%)	14	46
6	B4	33/39 (85%)	27 (82%)	6 (18%)	2	13
6	B6	33/39 (85%)	30 (91%)	3 (9%)	14	46
6	B8	33/39 (85%)	25 (76%)	8 (24%)	1	5
6	BB	33/39 (85%)	24 (73%)	9 (27%)	0	3
6	BE	33/39 (85%)	29 (88%)	4 (12%)	7	29

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	BG	33/39 (85%)	30 (91%)	3 (9%)	14	46
6	BJ	33/39 (85%)	30 (91%)	3 (9%)	14	46
6	BN	33/39 (85%)	29 (88%)	4 (12%)	7	29
6	BP	33/39 (85%)	31 (94%)	2 (6%)	26	68
6	BR	33/39 (85%)	27 (82%)	6 (18%)	2	13
6	BT	33/39 (85%)	30 (91%)	3 (9%)	14	46
6	BV	33/39 (85%)	31 (94%)	2 (6%)	26	68
6	BX	33/39 (85%)	29 (88%)	4 (12%)	7	29
6	BZ	33/39 (85%)	30 (91%)	3 (9%)	14	46
All	All	4511/5076 (89%)	3985 (88%)	526 (12%)	8	31

All (526) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AC	20	LEU
1	AC	30	THR
1	AC	54	GLN
1	AC	56	ASN
1	AC	90	PHE
1	AC	115	ASN
1	AC	128	ARG
1	AC	135	ARG
1	AC	150	VAL
1	AC	167	VAL
1	AC	174	TYR
1	AC	178	LEU
1	AC	190	VAL
1	AC	212	ILE
1	AC	223	PRO
1	AC	243	LEU
1	AC	247	CYS
1	AC	254	ARG
1	AC	257	ASN
1	AC	265	LYS
1	AC	274	ARG
1	AC	283	TYR
1	AC	285	TRP
1	AC	302	PRO
1	AC	308	MET

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Mol	Chain	Res	Type
1	AC	317	PRO
2	AL	5	SER
2	AL	37	VAL
2	AL	52	TRP
2	AL	68	TYR
2	AL	71	TRP
2	AL	82	TYR
2	AL	86	MET
2	AL	90	THR
2	AL	117	CYS
2	AL	138	LEU
2	AL	145	PRO
2	AL	162	HIS
2	AL	175	HIS
2	AL	187	SER
2	AL	192	ASN
2	AL	204	LEU
2	AL	217	THR
2	AL	222	ASN
2	AL	223	THR
2	AL	227	ASP
2	AL	238	ILE
2	AL	248	SER
2	AL	252	TRP
2	AL	256	CYS
2	AL	257	ILE
2	AL	266	ARG
2	AL	273	ASN
2	AL	280	LEU
2	AL	281	TRP
3	AM	4	TYR
3	AM	5	GLN
3	AM	34	PRO
3	AM	58	THR
3	AM	63	PHE
3	AM	65	LEU
3	AM	85	GLN
3	AM	91	PHE
3	AM	102	TYR
3	AM	114	TRP
3	AM	122	LEU
3	AM	132	ARG

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Mol	Chain	Res	Type
3	AM	135	LYS
3	AM	136	ARG
3	AM	138	GLU
3	AM	148	TRP
3	AM	150	PHE
3	AM	157	TYR
3	AM	162	PHE
3	AM	165	PRO
3	AM	171	TRP
3	AM	173	LYS
3	AM	177	PHE
3	AM	179	ILE
3	AM	182	HIS
3	AM	183	LEU
3	AM	186	THR
3	AM	214	LEU
3	AM	215	LEU
3	AM	234	GLU
3	AM	246	GLU
3	AM	247	ARG
3	AM	254	TRP
3	AM	258	PHE
3	AM	259	ASN
3	AM	265	ILE
3	AM	275	LEU
3	AM	307	TYR
3	AM	315	ASN
4	AH	16	ILE
4	AH	19	PHE
4	AH	22	PHE
4	AH	27	ILE
4	AH	31	ARG
4	AH	69	LEU
4	AH	125	LEU
4	AH	140	LYS
4	AH	141	GLU
4	AH	148	ASP
4	AH	155	THR
4	AH	170	VAL
4	AH	182	LEU
4	AH	197	ILE
4	AH	223	PRO

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Mol	Chain	Res	Type
4	AH	248	LEU
5	AA	8	LEU
5	AA	18	ARG
5	AA	37	MET
5	AA	42	THR
5	AA	49	ASP
5	AA	50	ASN
6	AB	9	LEU
6	AB	20	ILE
6	AB	23	GLN
6	AB	32	VAL
6	AB	34	ILE
6	AB	40	TRP
5	AD	7	ASN
5	AD	12	TRP
5	AD	29	ILE
6	AE	21	PHE
6	AE	23	GLN
5	AF	4	MET
5	AF	7	ASN
5	AF	12	TRP
5	AF	27	PHE
5	AF	40	LEU
5	AF	41	SER
5	AF	43	ASP
6	AG	13	GLU
6	AG	15	LYS
6	AG	17	PHE
6	AG	21	PHE
6	AG	31	LEU
6	AG	34	ILE
6	AG	37	LEU
6	AG	38	LEU
5	AI	8	LEU
5	AI	9	TYR
5	AI	18	ARG
5	AI	55	TYR
6	AJ	17	PHE
6	AJ	21	PHE
6	AJ	33	VAL
6	AJ	34	ILE
6	AJ	41	LEU

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Mol	Chain	Res	Type
5	AK	9	TYR
5	AK	12	TRP
5	AK	18	ARG
5	AK	29	ILE
5	AK	44	LEU
5	AK	55	TYR
6	AN	10	THR
6	AN	13	GLU
6	AN	29	PHE
6	AN	33	VAL
6	AN	34	ILE
6	AN	41	LEU
5	AO	5	ASN
5	AO	8	LEU
5	AO	13	LEU
5	AO	18	ARG
5	AO	29	ILE
5	AO	55	TYR
6	AP	21	PHE
6	AP	34	ILE
6	AP	37	LEU
6	AP	38	LEU
6	AP	41	LEU
5	AQ	9	TYR
5	AQ	45	ASN
5	AQ	51	ILE
5	AQ	55	TYR
6	AR	13	GLU
6	AR	20	ILE
6	AR	21	PHE
6	AR	34	ILE
6	AR	38	LEU
5	AS	5	ASN
5	AS	19	ARG
5	AS	29	ILE
5	AS	44	LEU
5	AS	55	TYR
6	AT	15	LYS
6	AT	16	GLU
6	AT	20	ILE
6	AT	34	ILE
6	AT	40	TRP

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Mol	Chain	Res	Type
5	AU	2	PHE
5	AU	9	TYR
5	AU	18	ARG
5	AU	38	ILE
5	AU	47	LEU
5	AU	55	TYR
5	AU	56	GLN
6	AV	13	GLU
6	AV	20	ILE
6	AV	32	VAL
6	AV	38	LEU
6	AV	41	LEU
5	AW	7	ASN
5	AW	12	TRP
5	AW	16	ASP
5	AW	19	ARG
5	AW	37	MET
6	AX	12	ASP
6	AX	20	ILE
6	AX	34	ILE
6	AX	36	HIS
5	AY	2	PHE
5	AY	5	ASN
5	AY	13	LEU
5	AY	16	ASP
5	AY	18	ARG
5	AY	29	ILE
5	AY	48	ASP
6	AZ	34	ILE
6	AZ	36	HIS
6	AZ	37	LEU
6	AZ	43	ARG
5	A1	8	LEU
5	A1	12	TRP
5	A1	18	ARG
6	A2	13	GLU
6	A2	20	ILE
6	A2	29	PHE
6	A2	41	LEU
5	A3	9	TYR
5	A3	19	ARG
5	A3	45	ASN

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Mol	Chain	Res	Type
5	A3	47	LEU
5	A3	49	ASP
5	A3	56	GLN
6	A4	20	ILE
6	A4	23	GLN
6	A4	26	TYR
6	A4	33	VAL
6	A4	34	ILE
6	A4	37	LEU
6	A4	42	TYR
5	A5	9	TYR
5	A5	20	VAL
5	A5	29	ILE
5	A5	47	LEU
6	A6	20	ILE
6	A6	37	LEU
6	A6	40	TRP
5	A7	2	PHE
5	A7	7	ASN
5	A7	9	TYR
5	A7	18	ARG
5	A7	27	PHE
5	A7	28	GLN
5	A7	29	ILE
5	A7	44	LEU
6	A8	16	GLU
6	A8	20	ILE
6	A8	21	PHE
6	A8	23	GLN
6	A8	32	VAL
6	A8	33	VAL
6	A8	34	ILE
5	A9	18	ARG
5	A9	44	LEU
5	A9	55	TYR
5	A9	56	GLN
6	A0	16	GLU
6	A0	17	PHE
6	A0	20	ILE
6	A0	21	PHE
6	A0	23	GLN
6	A0	32	VAL

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Mol	Chain	Res	Type
6	A0	33	VAL
6	A0	34	ILE
6	A0	36	HIS
6	A0	37	LEU
1	BC	21	LEU
1	BC	30	THR
1	BC	54	GLN
1	BC	56	ASN
1	BC	58	PRO
1	BC	74	GLU
1	BC	90	PHE
1	BC	98	THR
1	BC	115	ASN
1	BC	128	ARG
1	BC	150	VAL
1	BC	167	VAL
1	BC	174	TYR
1	BC	190	VAL
1	BC	212	ILE
1	BC	243	LEU
1	BC	247	CYS
1	BC	254	ARG
1	BC	257	ASN
1	BC	265	LYS
1	BC	273	ILE
1	BC	274	ARG
1	BC	283	TYR
1	BC	285	TRP
1	BC	302	PRO
1	BC	308	MET
1	BC	317	PRO
2	BL	52	TRP
2	BL	71	TRP
2	BL	82	TYR
2	BL	86	MET
2	BL	90	THR
2	BL	106	PHE
2	BL	111	LEU
2	BL	117	CYS
2	BL	162	HIS
2	BL	172	GLN
2	BL	192	ASN

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Mol	Chain	Res	Type
2	BL	201	SER
2	BL	208	ASN
2	BL	222	ASN
2	BL	227	ASP
2	BL	231	TYR
2	BL	247	LEU
2	BL	248	SER
2	BL	252	TRP
2	BL	266	ARG
2	BL	273	ASN
2	BL	281	TRP
3	BM	5	GLN
3	BM	16	PRO
3	BM	27	ASN
3	BM	34	PRO
3	BM	63	PHE
3	BM	65	LEU
3	BM	85	GLN
3	BM	102	TYR
3	BM	114	TRP
3	BM	132	ARG
3	BM	136	ARG
3	BM	138	GLU
3	BM	148	TRP
3	BM	150	PHE
3	BM	155	PHE
3	BM	162	PHE
3	BM	171	TRP
3	BM	177	PHE
3	BM	179	ILE
3	BM	182	HIS
3	BM	183	LEU
3	BM	186	THR
3	BM	214	LEU
3	BM	218	MET
3	BM	222	THR
3	BM	228	ARG
3	BM	229	PHE
3	BM	234	GLU
3	BM	246	GLU
3	BM	247	ARG
3	BM	254	TRP

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Mol	Chain	Res	Type
3	BM	255	THR
3	BM	259	ASN
3	BM	267	ARG
3	BM	275	LEU
3	BM	307	TYR
3	BM	315	ASN
4	BH	13	GLN
4	BH	16	ILE
4	BH	19	PHE
4	BH	22	PHE
4	BH	27	ILE
4	BH	29	TYR
4	BH	31	ARG
4	BH	54	LYS
4	BH	60	ASP
4	BH	69	LEU
4	BH	123	CYS
4	BH	140	LYS
4	BH	141	GLU
4	BH	148	ASP
4	BH	155	THR
4	BH	182	LEU
4	BH	185	GLU
4	BH	197	ILE
4	BH	225	LEU
4	BH	227	ASN
4	BH	235	GLU
5	BA	7	ASN
5	BA	8	LEU
5	BA	18	ARG
5	BA	42	THR
5	BA	55	TYR
6	BB	7	THR
6	BB	9	LEU
6	BB	18	HIS
6	BB	20	ILE
6	BB	22	MET
6	BB	23	GLN
6	BB	26	TYR
6	BB	34	ILE
6	BB	40	TRP
5	BD	12	TRP

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Mol	Chain	Res	Type
6	BE	16	GLU
6	BE	17	PHE
6	BE	21	PHE
6	BE	23	GLN
5	BF	4	MET
5	BF	7	ASN
5	BF	12	TRP
5	BF	18	ARG
5	BF	49	ASP
6	BG	13	GLU
6	BG	21	PHE
6	BG	24	SER
5	BI	8	LEU
5	BI	9	TYR
5	BI	10	LYS
5	BI	18	ARG
5	BI	47	LEU
5	BI	55	TYR
6	BJ	17	PHE
6	BJ	33	VAL
6	BJ	34	ILE
5	BK	9	TYR
5	BK	12	TRP
5	BK	18	ARG
5	BK	44	LEU
5	BK	48	ASP
5	BK	55	TYR
6	BN	24	SER
6	BN	29	PHE
6	BN	33	VAL
6	BN	34	ILE
5	BO	5	ASN
5	BO	8	LEU
5	BO	9	TYR
5	BO	43	ASP
6	BP	21	PHE
6	BP	25	MET
5	BQ	9	TYR
5	BQ	43	ASP
5	BQ	45	ASN
5	BQ	55	TYR
6	BR	20	ILE

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Mol	Chain	Res	Type
6	BR	21	PHE
6	BR	23	GLN
6	BR	28	TRP
6	BR	29	PHE
6	BR	38	LEU
5	BS	19	ARG
5	BS	44	LEU
5	BS	55	TYR
6	BT	20	ILE
6	BT	21	PHE
6	BT	40	TRP
5	BU	2	PHE
5	BU	9	TYR
5	BU	12	TRP
5	BU	18	ARG
5	BU	47	LEU
5	BU	55	TYR
5	BU	56	GLN
6	BV	13	GLU
6	BV	20	ILE
5	BW	7	ASN
5	BW	9	TYR
5	BW	12	TRP
5	BW	22	VAL
5	BW	37	MET
5	BW	49	ASP
5	BW	55	TYR
6	BX	24	SER
6	BX	34	ILE
6	BX	36	HIS
6	BX	44	PRO
5	BY	9	TYR
5	BY	18	ARG
5	BY	27	PHE
5	BY	37	MET
5	BY	55	TYR
5	BY	56	GLN
6	BZ	11	ASP
6	BZ	29	PHE
6	BZ	36	HIS
5	B1	9	TYR
5	B1	18	ARG

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Mol	Chain	Res	Type
6	B2	20	ILE
6	B2	24	SER
6	B2	41	LEU
5	B3	2	PHE
5	B3	45	ASN
5	B3	47	LEU
5	B3	56	GLN
6	B4	20	ILE
6	B4	26	TYR
6	B4	33	VAL
6	B4	34	ILE
6	B4	37	LEU
6	B4	42	TYR
5	B5	9	TYR
5	B5	29	ILE
5	B5	47	LEU
6	B6	20	ILE
6	B6	37	LEU
6	B6	40	TRP
5	B7	9	TYR
5	B7	18	ARG
5	B7	24	ILE
5	B7	44	LEU
6	B8	16	GLU
6	B8	20	ILE
6	B8	21	PHE
6	B8	23	GLN
6	B8	32	VAL
6	B8	33	VAL
6	B8	34	ILE
6	B8	41	LEU
5	B9	2	PHE
5	B9	44	LEU
6	B0	17	PHE
6	B0	21	PHE
6	B0	23	GLN
6	B0	32	VAL
6	B0	34	ILE
6	B0	36	HIS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (114) such sidechains are listed below:

Mol	Chain	Res	Type
1	AC	45	ASN
1	AC	54	GLN
1	AC	77	GLN
1	AC	80	GLN
1	AC	138	ASN
1	AC	159	ASN
1	AC	206	GLN
1	AC	228	GLN
1	AC	238	ASN
1	AC	252	ASN
1	AC	275	HIS
1	AC	322	GLN
2	AL	96	GLN
2	AL	192	ASN
2	AL	273	ASN
3	AM	85	GLN
3	AM	195	ASN
3	AM	199	ASN
3	AM	240	HIS
3	AM	315	ASN
4	AH	218	HIS
4	AH	227	ASN
6	AB	18	HIS
6	AB	23	GLN
5	AD	5	ASN
5	AD	7	ASN
5	AD	28	GLN
6	AE	18	HIS
5	AF	7	ASN
5	AF	56	GLN
6	AG	18	HIS
6	AG	23	GLN
5	AI	7	ASN
5	AK	5	ASN
5	AK	45	ASN
5	AO	5	ASN
5	AO	7	ASN
5	AO	28	GLN
6	AP	18	HIS
6	AT	23	GLN
5	AW	5	ASN
5	AW	7	ASN
5	AW	56	GLN

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Mol	Chain	Res	Type
5	AY	5	ASN
6	AZ	18	HIS
6	AZ	23	GLN
5	A1	45	ASN
5	A1	56	GLN
5	A3	28	GLN
5	A3	45	ASN
5	A3	56	GLN
6	A4	23	GLN
5	A5	45	ASN
5	A5	56	GLN
5	A7	7	ASN
5	A7	28	GLN
6	A8	23	GLN
5	A9	7	ASN
5	A9	28	GLN
5	A9	56	GLN
1	BC	54	GLN
1	BC	57	GLN
1	BC	77	GLN
1	BC	80	GLN
1	BC	138	ASN
1	BC	184	ASN
1	BC	206	GLN
1	BC	238	ASN
1	BC	322	GLN
2	BL	96	GLN
2	BL	177	HIS
2	BL	192	ASN
2	BL	273	ASN
3	BM	5	GLN
3	BM	12	GLN
3	BM	27	ASN
3	BM	85	GLN
3	BM	195	ASN
3	BM	199	ASN
3	BM	259	ASN
3	BM	315	ASN
4	BH	13	GLN
4	BH	88	ASN
4	BH	189	ASN
4	BH	218	HIS

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Mol	Chain	Res	Type
4	BH	227	ASN
5	BA	7	ASN
6	BB	18	HIS
6	BB	23	GLN
6	BE	18	HIS
5	BF	7	ASN
5	BF	56	GLN
6	BG	18	HIS
5	BI	28	GLN
5	BK	5	ASN
5	BK	45	ASN
5	BK	56	GLN
6	BN	23	GLN
5	BO	5	ASN
5	BO	7	ASN
5	BS	45	ASN
6	BT	23	GLN
5	BU	5	ASN
5	BU	56	GLN
5	BW	7	ASN
6	BZ	23	GLN
5	B3	45	ASN
5	B3	56	GLN
6	B4	23	GLN
6	B6	23	GLN
6	B8	23	GLN
5	B9	5	ASN
5	B9	7	ASN
5	B9	45	ASN

### 5.3.3 RNA ⓘ

There are no RNA chains in this entry.

### 5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

### 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 5.6 Ligand geometry

Of 169 ligands modelled in this entry, 36 are monoatomic - leaving 133 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. 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  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z  > 2$	Counts	RMSZ	# $ Z  > 2$
14	CRT	A0	101	-	43,43,43	1.63	6 (13%)	54,54,54	1.98	16 (29%)
9	BCL	A0	102	-	74,74,74	2.20	16 (21%)	98,115,115	3.41	30 (30%)
9	BCL	A1	102	-	74,74,74	2.67	22 (29%)	98,115,115	2.36	29 (29%)
14	CRT	A1	103	-	43,43,43	1.53	10 (23%)	54,54,54	2.34	18 (33%)
9	BCL	A2	101	-	74,74,74	1.97	16 (21%)	98,115,115	2.58	26 (26%)
14	CRT	A2	102	-	43,43,43	1.87	8 (18%)	54,54,54	1.76	13 (24%)
16	PO4	A3	101	-	4,4,4	0.92	0	6,6,6	0.29	0
9	BCL	A3	103	-	74,74,74	2.16	18 (24%)	98,115,115	2.15	27 (27%)
9	BCL	A3	104	-	74,74,74	2.00	18 (24%)	98,115,115	3.20	28 (28%)
9	BCL	A5	102	-	74,74,74	2.10	18 (24%)	98,115,115	2.73	30 (30%)
14	CRT	A5	103	-	43,43,43	1.45	8 (18%)	54,54,54	1.71	14 (25%)
9	BCL	A6	101	-	74,74,74	2.24	18 (24%)	98,115,115	2.33	29 (29%)
14	CRT	A7	102	-	43,43,43	3.25	10 (23%)	54,54,54	3.35	14 (25%)
9	BCL	A7	103	-	74,74,74	2.31	18 (24%)	98,115,115	2.44	31 (31%)
9	BCL	A8	101	-	74,74,74	2.14	22 (29%)	98,115,115	2.99	28 (28%)
9	BCL	A9	102	-	74,74,74	1.97	19 (25%)	98,115,115	2.90	29 (29%)
9	BCL	AA	101	-	74,74,74	1.93	18 (24%)	98,115,115	2.08	23 (23%)
14	CRT	AA	102	-	43,43,43	1.57	4 (9%)	54,54,54	1.64	14 (25%)
9	BCL	AB	101	-	74,74,74	1.92	18 (24%)	98,115,115	2.27	26 (26%)
14	CRT	AB	102	-	43,43,43	1.31	5 (11%)	54,54,54	1.86	20 (37%)
7	HEM	AC	501	1	50,50,50	2.47	15 (30%)	46,82,82	1.48	8 (17%)
7	HEM	AC	502	1	50,50,50	2.31	15 (30%)	46,82,82	1.48	9 (19%)
7	HEM	AC	503	1	50,50,50	2.13	13 (26%)	46,82,82	1.43	7 (15%)
7	HEM	AC	504	1	50,50,50	2.29	14 (28%)	46,82,82	1.42	7 (15%)
9	BCL	AD	102	-	74,74,74	1.93	15 (20%)	98,115,115	2.17	24 (24%)
9	BCL	AE	101	-	74,74,74	2.06	17 (22%)	98,115,115	2.34	28 (28%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
9	BCL	AF	102	-	74,74,74	1.97	16 (21%)	98,115,115	2.12	25 (25%)
9	BCL	AG	101	-	74,74,74	1.98	17 (22%)	98,115,115	2.13	28 (28%)
14	CRT	AG	102	-	43,43,43	1.46	6 (13%)	54,54,54	1.74	18 (33%)
15	PEF	AH	301	-	16,18,46	4.43	6 (37%)	19,23,51	1.99	6 (31%)
16	PO4	AH	302	-	4,4,4	0.89	0	6,6,6	0.28	0
9	BCL	AI	102	-	74,74,74	1.94	15 (20%)	98,115,115	2.16	24 (24%)
9	BCL	AJ	101	-	74,74,74	1.92	16 (21%)	98,115,115	2.23	26 (26%)
14	CRT	AJ	102	-	43,43,43	1.56	5 (11%)	54,54,54	1.89	16 (29%)
9	BCL	AK	102	-	74,74,74	1.81	16 (21%)	98,115,115	2.21	26 (26%)
9	BCL	AL	301	-	74,74,74	1.89	16 (21%)	98,115,115	2.07	27 (27%)
10	BPH	AL	302	-	70,70,70	0.98	4 (5%)	94,101,101	1.19	9 (9%)
9	BCL	AL	303	-	74,74,74	1.63	12 (16%)	98,115,115	2.16	26 (26%)
11	UQ8	AL	304	-	53,53,53	1.39	2 (3%)	67,67,67	1.80	17 (25%)
9	BCL	AM	401	-	74,74,74	1.69	13 (17%)	98,115,115	2.18	24 (24%)
9	BCL	AM	402	-	74,74,74	1.70	13 (17%)	98,115,115	2.24	25 (25%)
10	BPH	AM	403	-	70,70,70	0.99	4 (5%)	94,101,101	1.06	4 (4%)
13	MQ8	AM	405	-	54,54,54	1.04	3 (5%)	69,69,69	1.58	15 (21%)
14	CRT	AM	406	-	43,43,43	1.66	7 (16%)	54,54,54	1.55	10 (18%)
15	PEF	AM	407	-	16,18,46	4.43	6 (37%)	19,23,51	1.99	6 (31%)
15	PEF	AM	408	-	10,13,46	4.52	4 (40%)	10,16,51	1.24	1 (10%)
15	PEF	AM	409	-	46,46,46	2.12	6 (13%)	51,51,51	1.36	7 (13%)
16	PO4	AM	410	-	4,4,4	0.92	0	6,6,6	0.29	0
9	BCL	AN	101	-	74,74,74	2.04	19 (25%)	98,115,115	2.28	28 (28%)
14	CRT	AN	102	-	43,43,43	1.43	8 (18%)	54,54,54	1.79	19 (35%)
9	BCL	AO	102	-	74,74,74	1.82	15 (20%)	98,115,115	2.20	26 (26%)
9	BCL	AP	101	-	74,74,74	1.94	20 (27%)	98,115,115	2.33	31 (31%)
14	CRT	AP	102	-	43,43,43	1.83	9 (20%)	54,54,54	1.73	17 (31%)
9	BCL	AQ	102	-	74,74,74	1.79	17 (22%)	98,115,115	2.15	25 (25%)
9	BCL	AR	101	-	74,74,74	1.91	17 (22%)	98,115,115	2.18	24 (24%)
14	CRT	AR	102	-	43,43,43	1.42	7 (16%)	54,54,54	1.78	16 (29%)
15	PEF	AS	101	-	46,46,46	2.12	6 (13%)	51,51,51	1.44	7 (13%)
9	BCL	AS	103	-	74,74,74	2.03	18 (24%)	98,115,115	2.21	27 (27%)
14	CRT	AS	104	-	43,43,43	1.55	5 (11%)	54,54,54	2.07	17 (31%)
9	BCL	AT	101	-	74,74,74	2.02	19 (25%)	98,115,115	2.15	31 (31%)
14	CRT	AT	102	-	43,43,43	1.60	7 (16%)	54,54,54	1.75	14 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
9	BCL	AU	102	-	74,74,74	2.11	20 (27%)	98,115,115	2.81	36 (36%)
9	BCL	AV	102	-	74,74,74	2.10	20 (27%)	98,115,115	2.07	30 (30%)
9	BCL	AW	101	-	74,74,74	2.02	17 (22%)	98,115,115	3.79	29 (29%)
14	CRT	AW	102	-	43,43,43	1.84	11 (25%)	54,54,54	1.73	18 (33%)
9	BCL	AX	101	-	74,74,74	2.32	17 (22%)	98,115,115	2.87	29 (29%)
14	CRT	AX	102	-	43,43,43	2.11	10 (23%)	54,54,54	2.09	14 (25%)
9	BCL	AY	102	-	74,74,74	2.10	17 (22%)	98,115,115	2.32	28 (28%)
9	BCL	AZ	101	-	74,74,74	2.57	19 (25%)	98,115,115	3.14	27 (27%)
14	CRT	B0	101	-	43,43,43	2.12	9 (20%)	54,54,54	1.89	14 (25%)
9	BCL	B0	102	-	74,74,74	1.81	18 (24%)	98,115,115	2.25	30 (30%)
9	BCL	B1	102	-	74,74,74	1.90	14 (18%)	98,115,115	2.16	26 (26%)
14	CRT	B1	103	-	43,43,43	1.37	6 (13%)	54,54,54	1.95	20 (37%)
9	BCL	B2	101	-	74,74,74	1.82	17 (22%)	98,115,115	2.22	29 (29%)
14	CRT	B2	102	-	43,43,43	2.46	12 (27%)	54,54,54	1.93	17 (31%)
9	BCL	B3	102	-	74,74,74	1.77	13 (17%)	98,115,115	2.14	25 (25%)
9	BCL	B4	101	-	74,74,74	1.94	21 (28%)	98,115,115	2.30	30 (30%)
9	BCL	B5	102	-	74,74,74	1.97	16 (21%)	98,115,115	2.11	25 (25%)
14	CRT	B5	103	-	43,43,43	1.55	4 (9%)	54,54,54	1.65	12 (22%)
9	BCL	B6	101	-	74,74,74	1.98	14 (18%)	98,115,115	2.23	31 (31%)
14	CRT	B7	102	-	43,43,43	1.98	8 (18%)	54,54,54	1.86	12 (22%)
9	BCL	B7	103	-	74,74,74	2.02	16 (21%)	98,115,115	2.22	26 (26%)
9	BCL	B8	101	-	74,74,74	1.94	16 (21%)	98,115,115	2.42	30 (30%)
9	BCL	B9	102	-	74,74,74	1.96	15 (20%)	98,115,115	2.22	27 (27%)
9	BCL	BA	101	-	74,74,74	1.85	16 (21%)	98,115,115	2.11	23 (23%)
14	CRT	BA	102	-	43,43,43	1.57	4 (9%)	54,54,54	1.62	12 (22%)
9	BCL	BB	101	-	74,74,74	2.06	15 (20%)	98,115,115	2.38	31 (31%)
14	CRT	BB	102	-	43,43,43	1.48	7 (16%)	54,54,54	1.85	18 (33%)
7	HEM	BC	501	1	50,50,50	2.34	14 (28%)	46,82,82	1.54	11 (23%)
7	HEM	BC	502	1	50,50,50	2.24	11 (22%)	46,82,82	1.50	9 (19%)
7	HEM	BC	503	1	50,50,50	2.29	12 (24%)	46,82,82	1.44	7 (15%)
7	HEM	BC	504	1	50,50,50	2.36	13 (26%)	46,82,82	1.43	8 (17%)
9	BCL	BD	102	-	74,74,74	2.18	20 (27%)	98,115,115	2.18	28 (28%)
9	BCL	BE	101	-	74,74,74	2.11	23 (31%)	98,115,115	2.05	25 (25%)
9	BCL	BF	102	-	74,74,74	2.12	18 (24%)	98,115,115	2.23	29 (29%)
14	CRT	BF	103	-	43,43,43	1.55	8 (18%)	54,54,54	2.19	17 (31%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
9	BCL	BG	101	-	74,74,74	1.98	18 (24%)	98,115,115	2.20	27 (27%)
14	CRT	BG	102	-	43,43,43	1.49	6 (13%)	54,54,54	1.69	16 (29%)
16	PO4	BH	301	-	4,4,4	0.88	0	6,6,6	0.28	0
9	BCL	BI	102	-	74,74,74	1.82	19 (25%)	98,115,115	2.20	25 (25%)
9	BCL	BJ	101	-	74,74,74	1.81	19 (25%)	98,115,115	2.14	25 (25%)
9	BCL	BK	102	-	74,74,74	1.93	17 (22%)	98,115,115	2.14	23 (23%)
9	BCL	BL	301	-	74,74,74	1.90	17 (22%)	98,115,115	2.06	27 (27%)
10	BPH	BL	302	-	70,70,70	1.00	5 (7%)	94,101,101	1.09	8 (8%)
9	BCL	BL	303	-	74,74,74	1.64	13 (17%)	98,115,115	2.13	24 (24%)
11	UQ8	BL	304	-	53,53,53	1.35	2 (3%)	67,67,67	1.66	17 (25%)
9	BCL	BM	401	-	74,74,74	1.68	13 (17%)	98,115,115	2.18	25 (25%)
9	BCL	BM	402	-	74,74,74	1.78	15 (20%)	98,115,115	2.31	25 (25%)
10	BPH	BM	403	-	70,70,70	1.00	4 (5%)	94,101,101	1.16	7 (7%)
13	MQ8	BM	405	-	54,54,54	1.10	5 (9%)	69,69,69	1.42	12 (17%)
14	CRT	BM	406	-	43,43,43	1.56	8 (18%)	54,54,54	1.58	12 (22%)
15	PEF	BM	407	-	16,18,46	4.41	6 (37%)	19,23,51	1.98	6 (31%)
9	BCL	BN	101	-	74,74,74	1.85	15 (20%)	98,115,115	2.12	27 (27%)
14	CRT	BN	102	-	43,43,43	1.62	9 (20%)	54,54,54	1.82	15 (27%)
9	BCL	BO	102	-	74,74,74	1.84	15 (20%)	98,115,115	2.19	23 (23%)
14	CRT	BO	103	-	43,43,43	1.41	7 (16%)	54,54,54	1.79	16 (29%)
9	BCL	BP	101	-	74,74,74	2.07	20 (27%)	98,115,115	2.33	33 (33%)
14	CRT	BP	102	-	43,43,43	1.97	9 (20%)	54,54,54	1.63	14 (25%)
15	PEF	BQ	101	-	46,46,46	2.12	6 (13%)	51,51,51	1.43	7 (13%)
9	BCL	BQ	103	-	74,74,74	1.86	19 (25%)	98,115,115	2.16	24 (24%)
9	BCL	BQ	104	-	74,74,74	1.92	19 (25%)	98,115,115	2.16	29 (29%)
9	BCL	BS	102	-	74,74,74	1.67	14 (18%)	98,115,115	2.25	26 (26%)
14	CRT	BS	103	-	43,43,43	1.51	5 (11%)	54,54,54	1.69	15 (27%)
9	BCL	BT	101	-	74,74,74	1.90	19 (25%)	98,115,115	2.22	33 (33%)
9	BCL	BU	102	-	74,74,74	1.96	16 (21%)	98,115,115	2.20	25 (25%)
14	CRT	BU	103	-	43,43,43	1.91	11 (25%)	54,54,54	2.27	18 (33%)
9	BCL	BV	101	-	74,74,74	1.80	16 (21%)	98,115,115	2.14	29 (29%)
14	CRT	BV	102	-	43,43,43	2.06	12 (27%)	54,54,54	1.73	14 (25%)
9	BCL	BW	102	-	74,74,74	1.90	20 (27%)	98,115,115	2.22	27 (27%)
14	CRT	BW	103	-	43,43,43	1.79	8 (18%)	54,54,54	1.65	14 (25%)
9	BCL	BX	101	-	74,74,74	2.07	21 (28%)	98,115,115	2.29	25 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
9	BCL	BY	102	-	74,74,74	1.98	16 (21%)	98,115,115	2.18	23 (23%)
9	BCL	BZ	101	-	74,74,74	1.86	15 (20%)	98,115,115	2.18	30 (30%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CRT	A0	101	-	-	0/51/51/51	0/0/0/0
9	BCL	A0	102	-	-	0/41/137/137	0/0/9/9
9	BCL	A1	102	-	-	0/41/137/137	0/0/9/9
14	CRT	A1	103	-	-	0/51/51/51	0/0/0/0
9	BCL	A2	101	-	-	0/41/137/137	0/0/9/9
14	CRT	A2	102	-	-	0/51/51/51	0/0/0/0
16	PO4	A3	101	-	-	0/0/0/0	0/0/0/0
9	BCL	A3	103	-	-	0/41/137/137	0/0/9/9
9	BCL	A3	104	-	-	0/41/137/137	0/0/9/9
9	BCL	A5	102	-	-	0/41/137/137	0/0/9/9
14	CRT	A5	103	-	-	0/51/51/51	0/0/0/0
9	BCL	A6	101	-	-	0/41/137/137	0/0/9/9
14	CRT	A7	102	-	-	0/51/51/51	0/0/0/0
9	BCL	A7	103	-	-	0/41/137/137	0/0/9/9
9	BCL	A8	101	-	-	0/41/137/137	0/0/9/9
9	BCL	A9	102	-	-	0/41/137/137	0/0/9/9
9	BCL	AA	101	-	-	0/41/137/137	0/0/9/9
14	CRT	AA	102	-	-	0/51/51/51	0/0/0/0
9	BCL	AB	101	-	-	0/41/137/137	0/0/9/9
14	CRT	AB	102	-	-	0/51/51/51	0/0/0/0
7	HEM	AC	501	1	-	0/14/114/114	0/0/8/8
7	HEM	AC	502	1	-	0/14/114/114	0/0/8/8
7	HEM	AC	503	1	-	0/14/114/114	0/0/8/8
7	HEM	AC	504	1	-	0/14/114/114	0/0/8/8
9	BCL	AD	102	-	-	0/41/137/137	0/0/9/9
9	BCL	AE	101	-	-	0/41/137/137	0/0/9/9
9	BCL	AF	102	-	-	0/41/137/137	0/0/9/9
9	BCL	AG	101	-	-	0/41/137/137	0/0/9/9
14	CRT	AG	102	-	-	0/51/51/51	0/0/0/0
15	PEF	AH	301	-	-	1/20/20/50	0/0/0/0
16	PO4	AH	302	-	-	0/0/0/0	0/0/0/0
9	BCL	AI	102	-	-	0/41/137/137	0/0/9/9
9	BCL	AJ	101	-	-	0/41/137/137	0/0/9/9

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CRT	AJ	102	-	-	0/51/51/51	0/0/0/0
9	BCL	AK	102	-	-	0/41/137/137	0/0/9/9
9	BCL	AL	301	-	-	0/41/137/137	0/0/9/9
10	BPH	AL	302	-	2/2/18/22	0/51/105/105	0/1/6/6
9	BCL	AL	303	-	-	0/41/137/137	0/0/9/9
11	UQ8	AL	304	-	-	0/51/75/75	0/1/1/1
9	BCL	AM	401	-	-	0/41/137/137	0/0/9/9
9	BCL	AM	402	-	-	0/41/137/137	0/0/9/9
10	BPH	AM	403	-	2/2/18/22	0/51/105/105	0/1/6/6
13	MQ8	AM	405	-	-	0/47/67/67	0/2/2/2
14	CRT	AM	406	-	-	0/51/51/51	0/0/0/0
15	PEF	AM	407	-	-	0/20/20/50	0/0/0/0
15	PEF	AM	408	-	-	0/11/13/50	0/0/0/0
15	PEF	AM	409	-	-	0/50/50/50	0/0/0/0
16	PO4	AM	410	-	-	0/0/0/0	0/0/0/0
9	BCL	AN	101	-	-	0/41/137/137	0/0/9/9
14	CRT	AN	102	-	-	0/51/51/51	0/0/0/0
9	BCL	AO	102	-	-	0/41/137/137	0/0/9/9
9	BCL	AP	101	-	-	0/41/137/137	0/0/9/9
14	CRT	AP	102	-	-	0/51/51/51	0/0/0/0
9	BCL	AQ	102	-	-	0/41/137/137	0/0/9/9
9	BCL	AR	101	-	-	0/41/137/137	0/0/9/9
14	CRT	AR	102	-	-	0/51/51/51	0/0/0/0
15	PEF	AS	101	-	-	0/50/50/50	0/0/0/0
9	BCL	AS	103	-	-	0/41/137/137	0/0/9/9
14	CRT	AS	104	-	-	0/51/51/51	0/0/0/0
9	BCL	AT	101	-	-	0/41/137/137	0/0/9/9
14	CRT	AT	102	-	-	0/51/51/51	0/0/0/0
9	BCL	AU	102	-	-	0/41/137/137	0/0/9/9
9	BCL	AV	102	-	-	0/41/137/137	0/0/9/9
9	BCL	AW	101	-	-	0/41/137/137	0/0/9/9
14	CRT	AW	102	-	-	0/51/51/51	0/0/0/0
9	BCL	AX	101	-	-	0/41/137/137	0/0/9/9
14	CRT	AX	102	-	-	0/51/51/51	0/0/0/0
9	BCL	AY	102	-	-	0/41/137/137	0/0/9/9
9	BCL	AZ	101	-	-	0/41/137/137	0/0/9/9
14	CRT	B0	101	-	-	0/51/51/51	0/0/0/0
9	BCL	B0	102	-	-	0/41/137/137	0/0/9/9
9	BCL	B1	102	-	-	0/41/137/137	0/0/9/9
14	CRT	B1	103	-	-	0/51/51/51	0/0/0/0
9	BCL	B2	101	-	-	0/41/137/137	0/0/9/9
14	CRT	B2	102	-	-	0/51/51/51	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
9	BCL	B3	102	-	-	0/41/137/137	0/0/9/9
9	BCL	B4	101	-	-	0/41/137/137	0/0/9/9
9	BCL	B5	102	-	-	0/41/137/137	0/0/9/9
14	CRT	B5	103	-	-	0/51/51/51	0/0/0/0
9	BCL	B6	101	-	-	0/41/137/137	0/0/9/9
14	CRT	B7	102	-	-	0/51/51/51	0/0/0/0
9	BCL	B7	103	-	-	0/41/137/137	0/0/9/9
9	BCL	B8	101	-	-	0/41/137/137	0/0/9/9
9	BCL	B9	102	-	-	0/41/137/137	0/0/9/9
9	BCL	BA	101	-	-	0/41/137/137	0/0/9/9
14	CRT	BA	102	-	-	0/51/51/51	0/0/0/0
9	BCL	BB	101	-	-	0/41/137/137	0/0/9/9
14	CRT	BB	102	-	-	0/51/51/51	0/0/0/0
7	HEM	BC	501	1	-	0/14/114/114	0/0/8/8
7	HEM	BC	502	1	-	0/14/114/114	0/0/8/8
7	HEM	BC	503	1	-	0/14/114/114	0/0/8/8
7	HEM	BC	504	1	-	0/14/114/114	0/0/8/8
9	BCL	BD	102	-	-	0/41/137/137	0/0/9/9
9	BCL	BE	101	-	-	0/41/137/137	0/0/9/9
9	BCL	BF	102	-	-	0/41/137/137	0/0/9/9
14	CRT	BF	103	-	-	0/51/51/51	0/0/0/0
9	BCL	BG	101	-	-	0/41/137/137	0/0/9/9
14	CRT	BG	102	-	-	0/51/51/51	0/0/0/0
16	PO4	BH	301	-	-	0/0/0/0	0/0/0/0
9	BCL	BI	102	-	-	0/41/137/137	0/0/9/9
9	BCL	BJ	101	-	-	0/41/137/137	0/0/9/9
9	BCL	BK	102	-	-	0/41/137/137	0/0/9/9
9	BCL	BL	301	-	-	0/41/137/137	0/0/9/9
10	BPH	BL	302	-	2/2/18/22	0/51/105/105	0/1/6/6
9	BCL	BL	303	-	-	0/41/137/137	0/0/9/9
11	UQ8	BL	304	-	-	0/51/75/75	0/1/1/1
9	BCL	BM	401	-	-	0/41/137/137	0/0/9/9
9	BCL	BM	402	-	-	0/41/137/137	0/0/9/9
10	BPH	BM	403	-	2/2/18/22	0/51/105/105	0/1/6/6
13	MQ8	BM	405	-	-	0/47/67/67	0/2/2/2
14	CRT	BM	406	-	-	0/51/51/51	0/0/0/0
15	PEF	BM	407	-	-	1/20/20/50	0/0/0/0
9	BCL	BN	101	-	-	0/41/137/137	0/0/9/9
14	CRT	BN	102	-	-	0/51/51/51	0/0/0/0
9	BCL	BO	102	-	-	0/41/137/137	0/0/9/9
14	CRT	BO	103	-	-	0/51/51/51	0/0/0/0
9	BCL	BP	101	-	-	0/41/137/137	0/0/9/9

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
14	CRT	BP	102	-	-	0/51/51/51	0/0/0/0
15	PEF	BQ	101	-	-	0/50/50/50	0/0/0/0
9	BCL	BQ	103	-	-	0/41/137/137	0/0/9/9
9	BCL	BQ	104	-	-	0/41/137/137	0/0/9/9
9	BCL	BS	102	-	-	0/41/137/137	0/0/9/9
14	CRT	BS	103	-	-	0/51/51/51	0/0/0/0
9	BCL	BT	101	-	-	0/41/137/137	0/0/9/9
9	BCL	BU	102	-	-	0/41/137/137	0/0/9/9
14	CRT	BU	103	-	-	0/51/51/51	0/0/0/0
9	BCL	BV	101	-	-	0/41/137/137	0/0/9/9
14	CRT	BV	102	-	-	0/51/51/51	0/0/0/0
9	BCL	BW	102	-	-	0/41/137/137	0/0/9/9
14	CRT	BW	103	-	-	0/51/51/51	0/0/0/0
9	BCL	BX	101	-	-	0/41/137/137	0/0/9/9
9	BCL	BY	102	-	-	0/41/137/137	0/0/9/9
9	BCL	BZ	101	-	-	0/41/137/137	0/0/9/9

All (1665) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	AZ	101	BCL	O2A-C1	-14.96	0.97	1.46
14	A7	102	CRT	C21-C20	13.96	1.71	1.35
9	A1	102	BCL	O2A-C1	13.08	1.89	1.46
14	A7	102	CRT	C21-C22	12.26	1.82	1.43
15	AM	407	PEF	O4-C10	11.80	1.47	1.22
15	AH	301	PEF	O4-C10	11.79	1.47	1.22
15	AM	408	PEF	O4-C10	11.79	1.47	1.22
15	BM	407	PEF	O4-C10	11.76	1.47	1.22
9	A6	101	BCL	O2A-C1	10.06	1.79	1.46
9	AX	101	BCL	O2A-C1	9.62	1.77	1.46
7	AC	501	HEM	C3D-C2D	-9.60	1.34	1.44
9	A0	102	BCL	O2A-C1	9.15	1.76	1.46
9	B1	102	BCL	CHB-C4A	8.82	1.45	1.33
9	BX	101	BCL	CHB-C4A	8.78	1.45	1.33
9	A7	103	BCL	O2A-C1	8.77	1.75	1.46
7	BC	502	HEM	C3D-C2D	-8.59	1.35	1.44
15	AH	301	PEF	O5-C30	8.52	1.40	1.22
15	AM	407	PEF	O5-C30	8.51	1.40	1.22
9	A7	103	BCL	CHB-C4A	8.47	1.44	1.33
15	BM	407	PEF	O5-C30	8.45	1.40	1.22
9	A1	102	BCL	CHB-C4A	8.43	1.44	1.33
15	AM	409	PEF	O4-C10	8.25	1.47	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	AS	101	PEF	O4-C10	8.24	1.47	1.22
15	BQ	101	PEF	O4-C10	8.23	1.47	1.22
7	BC	501	HEM	C3D-C2D	-8.19	1.35	1.44
9	AX	101	BCL	CHB-C4A	8.03	1.44	1.33
7	AC	502	HEM	C3D-C2D	-7.94	1.36	1.44
7	BC	503	HEM	C2D-C1D	7.94	1.51	1.45
9	A3	103	BCL	CHB-C4A	7.87	1.44	1.33
7	AC	501	HEM	C2D-C1D	7.85	1.51	1.45
9	AY	102	BCL	CAA-C2A	7.79	1.68	1.54
9	AF	102	BCL	CHB-C4A	7.77	1.43	1.33
9	AR	101	BCL	CHB-C4A	7.76	1.43	1.33
9	AE	101	BCL	CHB-C4A	7.76	1.43	1.33
9	B9	102	BCL	CHB-C4A	7.74	1.43	1.33
9	AG	101	BCL	CHB-C4A	7.73	1.43	1.33
9	A0	102	BCL	CHB-C4A	7.71	1.43	1.33
7	AC	504	HEM	C2D-C1D	7.65	1.51	1.45
9	BZ	101	BCL	CHB-C4A	7.64	1.43	1.33
7	BC	503	HEM	C3D-C2D	-7.61	1.36	1.44
9	AT	101	BCL	CHB-C4A	7.60	1.43	1.33
9	A9	102	BCL	CHB-C4A	7.60	1.43	1.33
9	AY	102	BCL	CHB-C4A	7.60	1.43	1.33
7	BC	504	HEM	C2D-C1D	7.59	1.51	1.45
9	B3	102	BCL	CHB-C4A	7.57	1.43	1.33
9	AA	101	BCL	CHB-C4A	7.50	1.43	1.33
9	B5	102	BCL	CHB-C4A	7.49	1.43	1.33
9	B7	103	BCL	CHB-C4A	7.47	1.43	1.33
9	BY	102	BCL	CHB-C4A	7.40	1.43	1.33
9	A3	104	BCL	CHB-C4A	7.40	1.43	1.33
14	B0	101	CRT	C19-C17	7.39	1.45	1.35
9	AV	102	BCL	CHB-C4A	7.39	1.43	1.33
9	A3	103	BCL	CAA-C2A	7.37	1.67	1.54
9	AJ	101	BCL	CHB-C4A	7.34	1.43	1.33
7	AC	503	HEM	C2D-C1D	7.32	1.51	1.45
9	A2	101	BCL	CHB-C4A	7.25	1.43	1.33
9	AW	101	BCL	CHB-C4A	7.24	1.43	1.33
9	AU	102	BCL	CHB-C4A	7.23	1.43	1.33
14	B2	102	CRT	C4-C1	7.23	1.63	1.53
9	BP	101	BCL	CHB-C4A	7.22	1.43	1.33
9	B6	101	BCL	CHB-C4A	7.21	1.43	1.33
7	BC	504	HEM	C3D-C2D	-7.21	1.36	1.44
9	AS	103	BCL	CHB-C4A	7.19	1.43	1.33
9	A5	102	BCL	CHB-C4A	7.13	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	AC	504	HEM	C3D-C2D	-7.11	1.37	1.44
7	AC	502	HEM	C2D-C1D	7.11	1.50	1.45
9	AN	101	BCL	CHB-C4A	7.07	1.42	1.33
14	B2	102	CRT	C19-C17	7.06	1.45	1.35
9	AI	102	BCL	CHB-C4A	7.06	1.42	1.33
14	BU	103	CRT	C4-C1	7.06	1.63	1.53
9	A8	101	BCL	CHB-C4A	7.00	1.42	1.33
9	AB	101	BCL	CHB-C4A	6.99	1.42	1.33
9	A5	102	BCL	O2A-C1	-6.99	1.23	1.46
11	AL	304	UQ8	C43-C44	6.94	1.54	1.32
9	BE	101	BCL	CAA-CBA	-6.92	1.29	1.52
11	BL	304	UQ8	C43-C44	6.92	1.54	1.32
9	BL	301	BCL	CHC-C1C	6.91	1.42	1.33
9	AO	102	BCL	CHB-C4A	6.85	1.42	1.33
9	AL	301	BCL	CHC-C1C	6.85	1.42	1.33
7	AC	503	HEM	C3D-C2D	-6.85	1.37	1.44
9	A6	101	BCL	CHB-C4A	6.84	1.42	1.33
9	BB	101	BCL	CHB-C4A	6.82	1.42	1.33
9	A8	101	BCL	CHC-C1C	6.79	1.42	1.33
9	A2	101	BCL	CHC-C1C	6.78	1.42	1.33
9	BT	101	BCL	CHB-C4A	6.78	1.42	1.33
9	BQ	104	BCL	CHB-C4A	6.73	1.42	1.33
9	AD	102	BCL	CHB-C4A	6.69	1.42	1.33
9	B0	102	BCL	CHB-C4A	6.67	1.42	1.33
9	A6	101	BCL	CHC-C1C	6.65	1.42	1.33
15	AH	301	PEF	O2-C10	6.64	1.48	1.34
9	B8	101	BCL	CHB-C4A	6.63	1.42	1.33
15	AM	407	PEF	O2-C10	6.63	1.48	1.34
15	BM	407	PEF	O2-C10	6.61	1.48	1.34
9	BS	102	BCL	CHB-C4A	6.60	1.42	1.33
9	AN	101	BCL	CHC-C1C	6.58	1.42	1.33
9	AM	401	BCL	CHC-C1C	6.56	1.42	1.33
7	BC	502	HEM	C2D-C1D	6.50	1.50	1.45
9	BO	102	BCL	CHB-C4A	6.44	1.42	1.33
9	BQ	103	BCL	CHC-C1C	6.42	1.42	1.33
9	B4	101	BCL	CHB-C4A	6.39	1.42	1.33
7	BC	501	HEM	C2D-C1D	6.38	1.50	1.45
9	BG	101	BCL	CHB-C4A	6.38	1.42	1.33
9	B5	102	BCL	CHC-C1C	6.33	1.41	1.33
14	AX	102	CRT	C4-C1	6.33	1.62	1.53
9	BF	102	BCL	CHB-C4A	6.25	1.41	1.33
9	AZ	101	BCL	CHB-C4A	6.20	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	BD	102	BCL	CHC-C1C	6.20	1.41	1.33
9	B8	101	BCL	CHC-C1C	6.20	1.41	1.33
9	BA	101	BCL	CHB-C4A	6.19	1.41	1.33
9	B7	103	BCL	CHC-C1C	6.16	1.41	1.33
9	BD	102	BCL	CHB-C4A	6.15	1.41	1.33
9	AV	102	BCL	CHC-C1C	6.13	1.41	1.33
9	BU	102	BCL	CHB-C4A	6.12	1.41	1.33
9	BK	102	BCL	CHC-C1C	6.11	1.41	1.33
14	BV	102	CRT	C19-C17	6.11	1.43	1.35
9	A3	104	BCL	CHC-C1C	6.08	1.41	1.33
9	BL	301	BCL	CHB-C4A	6.06	1.41	1.33
9	BG	101	BCL	CHC-C1C	6.05	1.41	1.33
9	BV	101	BCL	CHB-C4A	6.04	1.41	1.33
9	BM	402	BCL	CHB-C4A	6.04	1.41	1.33
9	AL	301	BCL	CHB-C4A	6.03	1.41	1.33
9	BP	101	BCL	CHC-C1C	5.99	1.41	1.33
9	AW	101	BCL	O2A-C1	5.99	1.65	1.46
15	AS	101	PEF	O5-C30	5.95	1.40	1.22
9	BB	101	BCL	CHC-C1C	5.94	1.41	1.33
15	AM	409	PEF	O5-C30	5.94	1.40	1.22
9	BF	102	BCL	CHC-C1C	5.93	1.41	1.33
9	BM	401	BCL	CHC-C1C	5.92	1.41	1.33
15	BQ	101	PEF	O5-C30	5.92	1.40	1.22
9	BW	102	BCL	CHB-C4A	5.87	1.41	1.33
9	AP	101	BCL	CHB-C4A	5.81	1.41	1.33
9	AD	102	BCL	CHC-C1C	5.81	1.41	1.33
9	A0	102	BCL	CHC-C1C	5.80	1.41	1.33
9	BE	101	BCL	CHC-C1C	5.78	1.41	1.33
9	AM	402	BCL	CHC-C1C	5.78	1.41	1.33
9	AQ	102	BCL	CHC-C1C	5.75	1.41	1.33
9	A3	103	BCL	CHC-C1C	5.74	1.41	1.33
9	A1	102	BCL	C3B-C4B	5.74	1.49	1.40
9	AD	102	BCL	O2D-CGD	5.72	1.48	1.33
9	A7	103	BCL	CAA-C2A	5.72	1.64	1.54
14	AX	102	CRT	C19-C17	5.71	1.43	1.35
9	A7	103	BCL	CHC-C1C	5.71	1.41	1.33
9	BN	101	BCL	CHB-C4A	5.67	1.41	1.33
9	A5	102	BCL	CHC-C1C	5.65	1.41	1.33
9	BM	402	BCL	CHC-C1C	5.64	1.41	1.33
14	BP	102	CRT	C4-C1	5.63	1.61	1.53
9	BL	303	BCL	CHC-C1C	5.62	1.41	1.33
9	AU	102	BCL	C3B-C4B	5.61	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	B2	102	CRT	C22-C23	5.58	1.43	1.35
9	B4	101	BCL	CHC-C1C	5.53	1.40	1.33
9	BO	102	BCL	CHC-C1C	5.52	1.40	1.33
9	A1	102	BCL	CHC-C1C	5.51	1.40	1.33
9	BF	102	BCL	C1B-NB	5.47	1.43	1.34
9	AA	101	BCL	CHC-C1C	5.46	1.40	1.33
9	AU	102	BCL	CHC-C1C	5.44	1.40	1.33
9	AF	102	BCL	CHC-C1C	5.44	1.40	1.33
14	BV	102	CRT	C22-C23	5.43	1.42	1.35
14	B2	102	CRT	C4-C5	5.42	1.58	1.50
9	BA	101	BCL	CHC-C1C	5.41	1.40	1.33
9	AL	303	BCL	CHC-C1C	5.40	1.40	1.33
14	B2	102	CRT	C14-C12	5.39	1.42	1.35
14	AW	102	CRT	C4-C1	5.35	1.61	1.53
9	B6	101	BCL	CHC-C1C	5.34	1.40	1.33
9	BB	101	BCL	MG-NA	5.33	2.23	2.07
9	B6	101	BCL	CAA-CBA	-5.32	1.34	1.52
9	AK	102	BCL	CHC-C1C	5.31	1.40	1.33
9	B2	101	BCL	O2D-CGD	5.31	1.46	1.33
9	A1	102	BCL	CAA-C2A	5.28	1.63	1.54
14	B7	102	CRT	C14-C12	5.27	1.42	1.35
9	BW	102	BCL	C4C-NC	5.27	1.43	1.32
9	AM	402	BCL	CHB-C4A	5.25	1.40	1.33
14	B0	101	CRT	C14-C12	5.25	1.42	1.35
9	A9	102	BCL	CHC-C1C	5.21	1.40	1.33
14	AX	102	CRT	C14-C12	5.20	1.42	1.35
9	AU	102	BCL	CAA-C2A	5.19	1.63	1.54
9	AU	102	BCL	O2D-CGD	5.17	1.46	1.33
9	AB	101	BCL	CHC-C1C	5.16	1.40	1.33
9	BI	102	BCL	CHB-C4A	5.15	1.40	1.33
9	A3	103	BCL	O2A-CGA	5.15	1.49	1.33
9	BK	102	BCL	C3B-C4B	5.14	1.48	1.40
9	BD	102	BCL	O2D-CGD	5.14	1.46	1.33
9	AY	102	BCL	C3B-C4B	5.14	1.48	1.40
9	BK	102	BCL	CHB-C4A	5.12	1.40	1.33
9	AF	102	BCL	O2D-CGD	5.12	1.46	1.33
9	AG	101	BCL	CHC-C1C	5.11	1.40	1.33
9	AJ	101	BCL	CHC-C1C	5.11	1.40	1.33
9	BK	102	BCL	C4C-NC	5.10	1.43	1.32
15	AM	409	PEF	P-O1P	5.09	1.70	1.51
9	AI	102	BCL	CHC-C1C	5.09	1.40	1.33
15	AS	101	PEF	P-O1P	5.09	1.70	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	B0	102	BCL	CHC-C1C	5.08	1.40	1.33
9	B9	102	BCL	CHC-C1C	5.07	1.40	1.33
15	AM	408	PEF	P-O1P	5.06	1.70	1.51
15	AH	301	PEF	P-O1P	5.06	1.70	1.51
15	BQ	101	PEF	P-O1P	5.05	1.70	1.51
9	AI	102	BCL	CAA-C2A	5.05	1.63	1.54
15	BM	407	PEF	P-O1P	5.04	1.70	1.51
15	AM	407	PEF	P-O1P	5.04	1.70	1.51
9	B2	101	BCL	CHB-C4A	5.03	1.40	1.33
9	AX	101	BCL	CHC-C1C	5.00	1.40	1.33
9	B5	102	BCL	O2D-CGD	4.99	1.46	1.33
9	BY	102	BCL	CHC-C1C	4.99	1.40	1.33
9	AK	102	BCL	CHB-C4A	4.99	1.40	1.33
14	A2	102	CRT	C4-C1	4.98	1.60	1.53
9	BU	102	BCL	O2D-CGD	4.97	1.46	1.33
9	AE	101	BCL	C2-C3	4.96	1.42	1.32
9	BV	101	BCL	CAA-CBA	-4.95	1.36	1.52
11	BL	304	UQ8	C41-C42	-4.94	1.36	1.53
9	AQ	102	BCL	C4C-NC	4.93	1.43	1.32
9	BX	101	BCL	C2-C3	4.93	1.42	1.32
9	BX	101	BCL	O2D-CGD	4.92	1.45	1.33
14	BW	103	CRT	C4-C1	4.91	1.60	1.53
9	BL	303	BCL	CHB-C4A	4.91	1.40	1.33
14	B7	102	CRT	C4-C1	4.91	1.60	1.53
9	BM	402	BCL	O2D-CGD	4.90	1.45	1.33
9	AM	402	BCL	O2D-CGD	4.89	1.45	1.33
15	AS	101	PEF	O2-C10	4.88	1.49	1.34
9	A1	102	BCL	C4C-NC	4.88	1.43	1.32
9	AO	102	BCL	O2D-CGD	4.88	1.45	1.33
9	B7	103	BCL	CAA-C2A	4.87	1.63	1.54
15	AM	409	PEF	O2-C10	4.87	1.49	1.34
14	B0	101	CRT	C9-C7	4.86	1.42	1.35
14	AP	102	CRT	C4-C1	4.86	1.60	1.53
7	BC	503	HEM	CHB-C1B	4.85	1.42	1.35
7	BC	501	HEM	C3C-C4C	4.85	1.54	1.45
15	BQ	101	PEF	O2-C10	4.85	1.49	1.34
9	BP	101	BCL	O2D-CGD	4.84	1.45	1.33
9	AS	103	BCL	O2D-CGD	4.84	1.45	1.33
9	BE	101	BCL	C4C-NC	4.83	1.42	1.32
9	AT	101	BCL	CAA-CBA	-4.83	1.36	1.52
9	AL	301	BCL	O2D-CGD	4.83	1.45	1.33
9	AX	101	BCL	C4C-NC	4.83	1.42	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AL	304	UQ8	C41-C42	-4.82	1.36	1.53
9	BO	102	BCL	O2D-CGD	4.82	1.45	1.33
9	B9	102	BCL	O2D-CGD	4.81	1.45	1.33
9	A2	101	BCL	O2A-C1	-4.80	1.30	1.46
9	BT	101	BCL	C4C-NC	4.80	1.42	1.32
9	BD	102	BCL	C1B-NB	4.80	1.42	1.34
9	AS	103	BCL	CAA-C2A	4.79	1.62	1.54
9	BY	102	BCL	C3B-C4B	4.79	1.47	1.40
9	AQ	102	BCL	O2D-CGD	4.79	1.45	1.33
9	AB	101	BCL	O2A-CGA	4.78	1.47	1.33
9	BZ	101	BCL	O2D-CGD	4.78	1.45	1.33
9	BY	102	BCL	C4C-NC	4.77	1.42	1.32
7	BC	504	HEM	C3C-C2C	-4.77	1.39	1.45
9	BM	401	BCL	CHB-C4A	4.77	1.39	1.33
9	AW	101	BCL	C4C-NC	4.77	1.42	1.32
9	B3	102	BCL	O2D-CGD	4.76	1.45	1.33
9	BN	101	BCL	CHC-C1C	4.74	1.39	1.33
9	A9	102	BCL	CAA-C2A	4.74	1.62	1.54
9	BT	101	BCL	O2D-CGD	4.74	1.45	1.33
9	BU	102	BCL	C4C-NC	4.73	1.42	1.32
9	A6	101	BCL	O2D-CGD	4.73	1.45	1.33
9	BD	102	BCL	C3B-C4B	4.72	1.47	1.40
14	BV	102	CRT	C14-C12	4.72	1.42	1.35
9	BL	301	BCL	O2D-CGD	4.71	1.45	1.33
9	A8	101	BCL	MG-NA	4.71	2.21	2.07
9	BU	102	BCL	CHC-C1C	4.71	1.39	1.33
9	BD	102	BCL	C4C-NC	4.70	1.42	1.32
9	AW	101	BCL	CAA-C2A	4.70	1.62	1.54
9	AV	102	BCL	CAA-CBA	-4.69	1.36	1.52
9	AA	101	BCL	O2D-CGD	4.69	1.45	1.33
9	AU	102	BCL	O2A-CGA	4.69	1.47	1.33
9	AV	102	BCL	C4C-NC	4.69	1.42	1.32
9	AM	401	BCL	CHB-C4A	4.68	1.39	1.33
9	BF	102	BCL	C4C-NC	4.67	1.42	1.32
9	BN	101	BCL	O2D-CGD	4.66	1.45	1.33
9	A3	104	BCL	O2D-CGD	4.66	1.45	1.33
9	BW	102	BCL	CAA-C2A	4.66	1.62	1.54
9	AZ	101	BCL	CHC-C1C	4.65	1.39	1.33
9	BE	101	BCL	CHB-C4A	4.64	1.39	1.33
9	AP	101	BCL	CHC-C1C	4.64	1.39	1.33
9	AZ	101	BCL	O2D-CGD	4.64	1.45	1.33
9	AL	303	BCL	CHB-C4A	4.63	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	BB	101	BCL	O2D-CGD	4.62	1.45	1.33
14	A2	102	CRT	C14-C12	4.62	1.41	1.35
9	BK	102	BCL	O2D-CGD	4.62	1.45	1.33
9	BE	101	BCL	O2D-CGD	4.62	1.45	1.33
9	B5	102	BCL	C4C-NC	4.61	1.42	1.32
14	BP	102	CRT	C14-C12	4.60	1.41	1.35
9	AJ	101	BCL	O2D-CGD	4.60	1.45	1.33
9	AO	102	BCL	CHC-C1C	4.60	1.39	1.33
9	A3	103	BCL	C4C-NC	4.59	1.42	1.32
9	A3	103	BCL	O2D-CGD	4.59	1.45	1.33
9	AI	102	BCL	O2D-CGD	4.59	1.45	1.33
9	BI	102	BCL	O2D-CGD	4.59	1.45	1.33
9	B1	102	BCL	CHC-C1C	4.59	1.39	1.33
9	AV	102	BCL	O2D-CGD	4.58	1.45	1.33
9	AE	101	BCL	O2A-CGA	4.57	1.47	1.33
15	AM	408	PEF	O2-C10	4.57	1.48	1.36
9	BQ	103	BCL	C4C-NC	4.57	1.42	1.32
9	A7	103	BCL	O2D-CGD	4.57	1.45	1.33
9	BD	102	BCL	C3C-C4C	-4.56	1.45	1.51
9	A0	102	BCL	O2D-CGD	4.55	1.45	1.33
9	B7	103	BCL	O2D-CGD	4.55	1.45	1.33
9	AZ	101	BCL	C4C-NC	4.55	1.42	1.32
9	B9	102	BCL	C4C-NC	4.55	1.42	1.32
9	BQ	103	BCL	O2D-CGD	4.55	1.45	1.33
9	BS	102	BCL	O2D-CGD	4.54	1.45	1.33
14	A2	102	CRT	C19-C17	4.54	1.41	1.35
9	BA	101	BCL	O2D-CGD	4.54	1.44	1.33
9	A1	102	BCL	O2A-CGA	4.53	1.47	1.33
9	AN	101	BCL	O2D-CGD	4.53	1.44	1.33
9	AT	101	BCL	O2D-CGD	4.52	1.44	1.33
9	B7	103	BCL	C4C-NC	4.52	1.42	1.32
9	AE	101	BCL	CHC-C1C	4.52	1.39	1.33
9	BM	401	BCL	O2D-CGD	4.52	1.44	1.33
9	BU	102	BCL	CAA-C2A	4.51	1.62	1.54
9	AS	103	BCL	C1B-NB	4.51	1.41	1.34
7	AC	501	HEM	C3C-C4C	4.49	1.54	1.45
9	AL	303	BCL	O2D-CGD	4.50	1.44	1.33
9	A8	101	BCL	C5-C3	4.49	1.61	1.51
9	AK	102	BCL	O2D-CGD	4.49	1.44	1.33
9	AR	101	BCL	O2D-CGD	4.49	1.44	1.33
9	A5	102	BCL	C4C-NC	4.48	1.42	1.32
9	BV	101	BCL	O2D-CGD	4.47	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	A7	103	BCL	C4C-NC	4.47	1.42	1.32
14	B7	102	CRT	C19-C17	4.46	1.41	1.35
9	BW	102	BCL	O2D-CGD	4.45	1.44	1.33
9	BF	102	BCL	O2A-CGA	4.45	1.46	1.33
9	B9	102	BCL	CAA-C2A	4.44	1.62	1.54
9	BX	101	BCL	O2A-CGA	4.43	1.46	1.33
9	BN	101	BCL	C4C-NC	4.42	1.42	1.32
9	BQ	103	BCL	C3B-C4B	4.42	1.47	1.40
9	BW	102	BCL	CHC-C1C	4.41	1.39	1.33
9	BI	102	BCL	O2A-CGA	4.41	1.46	1.33
7	AC	503	HEM	CHB-C1B	4.40	1.42	1.35
9	B6	101	BCL	O2D-CGD	4.39	1.44	1.33
9	BY	102	BCL	O2D-CGD	4.39	1.44	1.33
9	AB	101	BCL	O2D-CGD	4.38	1.44	1.33
9	BF	102	BCL	C1A-NA	4.37	1.41	1.32
9	BB	101	BCL	C2-C3	4.37	1.41	1.32
9	AY	102	BCL	O2D-CGD	4.35	1.44	1.33
9	AV	102	BCL	C2-C3	4.35	1.41	1.32
9	BB	101	BCL	C3B-C4B	4.35	1.47	1.40
9	A5	102	BCL	CAA-C2A	4.34	1.62	1.54
9	AW	101	BCL	O2D-CGD	4.34	1.44	1.33
9	A9	102	BCL	C4C-NC	4.34	1.41	1.32
9	AI	102	BCL	C4C-NC	4.34	1.41	1.32
14	AP	102	CRT	C19-C17	4.34	1.41	1.35
14	B7	102	CRT	C22-C23	4.33	1.41	1.35
9	AO	102	BCL	O2A-CGA	4.33	1.46	1.33
9	B7	103	BCL	O2A-CGA	4.32	1.46	1.33
9	AG	101	BCL	CAA-CBA	-4.31	1.38	1.52
14	BP	102	CRT	C19-C17	4.31	1.41	1.35
9	AI	102	BCL	O2A-CGA	4.31	1.46	1.33
9	AK	102	BCL	C4C-NC	4.31	1.41	1.32
9	B3	102	BCL	C4C-NC	4.30	1.41	1.32
9	AU	102	BCL	C4C-NC	4.30	1.41	1.32
9	A8	101	BCL	O2D-CGD	4.30	1.44	1.33
9	B1	102	BCL	O2D-CGD	4.30	1.44	1.33
9	AG	101	BCL	C4C-NC	4.29	1.41	1.32
9	B6	101	BCL	C4C-NC	4.29	1.41	1.32
9	AD	102	BCL	C3B-C4B	4.29	1.46	1.40
9	BM	401	BCL	C3B-C4B	4.29	1.46	1.40
9	AF	102	BCL	C4C-NC	4.28	1.41	1.32
9	BZ	101	BCL	CHC-C1C	4.28	1.39	1.33
9	AD	102	BCL	O2A-CGA	4.28	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	BC	501	HEM	CHB-C1B	4.27	1.41	1.35
9	BF	102	BCL	CAA-C2A	4.27	1.61	1.54
9	AG	101	BCL	O2D-CGD	4.27	1.44	1.33
9	BQ	104	BCL	C4C-NC	4.27	1.41	1.32
9	BQ	104	BCL	O2D-CGD	4.26	1.44	1.33
9	AF	102	BCL	O2A-CGA	4.25	1.46	1.33
7	BC	504	HEM	C4C-NC	-4.24	1.32	1.38
9	AP	101	BCL	CAA-CBA	-4.24	1.38	1.52
9	AW	101	BCL	CHC-C1C	4.24	1.39	1.33
14	AP	102	CRT	C14-C12	4.24	1.41	1.35
14	AT	102	CRT	C19-C17	4.23	1.41	1.35
9	AK	102	BCL	C3B-C4B	4.23	1.46	1.40
14	BP	102	CRT	C22-C23	4.23	1.41	1.35
9	BY	102	BCL	O2A-CGA	4.23	1.46	1.33
9	AD	102	BCL	C4C-NC	4.23	1.41	1.32
9	AJ	101	BCL	C4C-NC	4.23	1.41	1.32
9	BA	101	BCL	C1A-NA	4.22	1.41	1.32
7	AC	502	HEM	C3C-C4C	4.22	1.53	1.45
9	AQ	102	BCL	C3B-C4B	4.22	1.46	1.40
9	AA	101	BCL	C4C-NC	4.22	1.41	1.32
9	AZ	101	BCL	C3B-C4B	4.21	1.46	1.40
14	AS	104	CRT	C22-C23	4.21	1.41	1.35
9	BJ	101	BCL	C2-C3	4.21	1.41	1.32
9	BG	101	BCL	C3B-C4B	4.20	1.46	1.40
9	AX	101	BCL	C2-C3	4.20	1.41	1.32
9	BP	101	BCL	C4C-NC	4.20	1.41	1.32
9	B9	102	BCL	O2A-CGA	4.20	1.46	1.33
9	BG	101	BCL	C1B-NB	4.18	1.41	1.34
9	BU	102	BCL	O2A-CGA	4.18	1.46	1.33
9	AS	103	BCL	C2-C3	4.18	1.41	1.32
9	A9	102	BCL	O2D-CGD	4.17	1.44	1.33
9	A2	101	BCL	C3B-C4B	4.17	1.46	1.40
9	BJ	101	BCL	O2D-CGD	4.16	1.44	1.33
9	BN	101	BCL	C3B-C4B	4.16	1.46	1.40
9	BI	102	BCL	C1A-NA	4.16	1.41	1.32
9	AT	101	BCL	C4C-NC	4.15	1.41	1.32
9	AM	401	BCL	O2D-CGD	4.15	1.43	1.33
14	BV	102	CRT	C9-C7	4.15	1.41	1.35
14	BP	102	CRT	C4-C5	4.15	1.56	1.50
9	AG	101	BCL	C2-C3	4.14	1.41	1.32
7	AC	504	HEM	C3C-C4C	4.14	1.53	1.45
9	AS	103	BCL	C4C-NC	4.14	1.41	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	AE	101	BCL	C4C-NC	4.14	1.41	1.32
15	AM	409	PEF	O3-C30	4.13	1.45	1.33
9	A2	101	BCL	C2-C3	4.13	1.41	1.32
9	B8	101	BCL	O2D-CGD	4.13	1.43	1.33
9	BL	301	BCL	O2A-CGA	4.13	1.45	1.33
15	BQ	101	PEF	O3-C30	4.12	1.45	1.33
9	AS	103	BCL	O2A-CGA	4.11	1.45	1.33
9	BG	101	BCL	C4C-NC	4.11	1.41	1.32
14	BA	102	CRT	C19-C17	4.10	1.41	1.35
15	AS	101	PEF	O3-C30	4.10	1.45	1.33
9	BB	101	BCL	C4C-NC	4.10	1.41	1.32
9	A0	102	BCL	C4C-NC	4.09	1.41	1.32
9	BU	102	BCL	MG-NA	-4.09	1.95	2.07
9	BP	101	BCL	CAA-CBA	-4.09	1.38	1.52
9	BA	101	BCL	O2A-CGA	4.09	1.45	1.33
9	AX	101	BCL	O2D-CGD	4.09	1.43	1.33
9	BO	102	BCL	C3B-C4B	4.09	1.46	1.40
9	AF	102	BCL	C2-C3	4.08	1.41	1.32
7	BC	503	HEM	C3C-C2C	-4.09	1.40	1.45
9	AL	301	BCL	C4C-NC	4.08	1.41	1.32
7	AC	502	HEM	CHB-C1B	4.07	1.41	1.35
9	A0	102	BCL	C3B-C4B	4.07	1.46	1.40
7	AC	502	HEM	C4C-NC	-4.07	1.32	1.38
9	A3	104	BCL	C4C-NC	4.07	1.41	1.32
9	AE	101	BCL	CAA-C2A	4.06	1.61	1.54
9	A3	104	BCL	CAA-C2A	4.06	1.61	1.54
9	AM	402	BCL	C4C-NC	4.06	1.41	1.32
9	BB	101	BCL	O2A-CGA	4.06	1.45	1.33
9	B4	101	BCL	C4C-NC	4.05	1.41	1.32
9	B0	102	BCL	O2D-CGD	4.05	1.43	1.33
9	A5	102	BCL	O2D-CGD	4.05	1.43	1.33
9	AS	103	BCL	C4A-NA	4.04	1.44	1.38
9	B8	101	BCL	C4C-NC	4.04	1.41	1.32
9	AX	101	BCL	C1A-NA	4.04	1.41	1.32
14	AJ	102	CRT	C22-C23	4.03	1.41	1.35
7	AC	504	HEM	C3C-C2C	-4.03	1.40	1.45
9	BP	101	BCL	O2A-CGA	4.03	1.45	1.33
9	BG	101	BCL	C2-C3	4.03	1.41	1.32
9	A1	102	BCL	O2D-CGD	4.02	1.43	1.33
14	A0	101	CRT	C27-C28	4.02	1.41	1.35
9	B2	101	BCL	O2A-CGA	4.01	1.45	1.33
14	AX	102	CRT	C27-C28	4.01	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	AE	101	BCL	C5-C3	4.00	1.60	1.51
9	AE	101	BCL	O2D-CGD	4.00	1.43	1.33
14	BW	103	CRT	C19-C17	4.00	1.41	1.35
9	B5	102	BCL	O2A-CGA	3.98	1.45	1.33
14	A7	102	CRT	C22-C23	3.97	1.41	1.35
9	AR	101	BCL	CHC-C1C	3.97	1.38	1.33
9	BS	102	BCL	C4C-NC	3.97	1.41	1.32
9	BJ	101	BCL	C4C-NC	3.96	1.41	1.32
9	BV	101	BCL	CHC-C1C	3.96	1.38	1.33
14	BN	102	CRT	C19-C17	3.96	1.41	1.35
9	AN	101	BCL	C3B-C4B	3.96	1.46	1.40
9	AP	101	BCL	O2A-CGA	3.96	1.45	1.33
9	BQ	103	BCL	C3B-C2B	-3.96	1.30	1.40
9	AO	102	BCL	C2-C3	3.95	1.40	1.32
9	BI	102	BCL	C2-C3	3.95	1.40	1.32
9	BJ	101	BCL	CHC-C1C	3.95	1.38	1.33
14	AA	102	CRT	C19-C17	3.95	1.40	1.35
14	A7	102	CRT	C19-C17	3.95	1.40	1.35
9	BI	102	BCL	C4C-NC	3.95	1.41	1.32
9	B6	101	BCL	O2A-CGA	3.95	1.45	1.33
14	AW	102	CRT	C4-C5	3.94	1.56	1.50
9	A8	101	BCL	C4C-NC	3.94	1.40	1.32
9	BA	101	BCL	C4C-NC	3.94	1.40	1.32
9	AK	102	BCL	O2A-CGA	3.94	1.45	1.33
9	BE	101	BCL	O1A-CGA	3.94	1.34	1.22
9	B4	101	BCL	O2D-CGD	3.93	1.43	1.33
14	AP	102	CRT	C22-C23	3.93	1.40	1.35
14	B7	102	CRT	C4-C5	3.93	1.56	1.50
9	B7	103	BCL	C3B-C4B	3.93	1.46	1.40
9	B0	102	BCL	C4C-NC	3.93	1.40	1.32
9	B9	102	BCL	C2-C3	3.93	1.40	1.32
9	AY	102	BCL	O2A-CGA	3.93	1.45	1.33
9	AS	103	BCL	CMA-C3A	3.92	1.62	1.53
14	AM	406	CRT	C22-C23	3.92	1.40	1.35
14	AX	102	CRT	C22-C23	3.91	1.40	1.35
9	B1	102	BCL	O2A-CGA	3.91	1.45	1.33
14	A2	102	CRT	C22-C23	3.91	1.40	1.35
9	BL	303	BCL	O2A-CGA	3.90	1.45	1.33
9	BN	101	BCL	C2-C3	3.90	1.40	1.32
9	BG	101	BCL	O2A-CGA	3.90	1.45	1.33
9	A1	102	BCL	C2-C3	3.90	1.40	1.32
9	BJ	101	BCL	C3B-C4B	3.90	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	BC	502	HEM	CHB-C1B	3.90	1.41	1.35
9	AM	401	BCL	O2A-CGA	3.90	1.45	1.33
9	B2	101	BCL	CAA-CBA	-3.89	1.39	1.52
9	BP	101	BCL	C2-C3	3.89	1.40	1.32
9	AL	301	BCL	O2A-CGA	3.89	1.45	1.33
9	AO	102	BCL	C4C-NC	3.89	1.40	1.32
9	AT	101	BCL	CHC-C1C	3.88	1.38	1.33
9	BK	102	BCL	O2A-CGA	3.88	1.45	1.33
9	AG	101	BCL	O2A-CGA	3.88	1.45	1.33
9	B5	102	BCL	C3B-C4B	3.88	1.46	1.40
9	BQ	104	BCL	C3B-C4B	3.88	1.46	1.40
14	AA	102	CRT	C22-C23	3.87	1.40	1.35
9	B2	101	BCL	C2-C3	3.86	1.40	1.32
9	AN	101	BCL	CAA-CBA	-3.87	1.39	1.52
9	BG	101	BCL	MG-NA	3.87	2.18	2.07
9	BE	101	BCL	O2A-C1	-3.86	1.33	1.46
14	BA	102	CRT	C22-C23	3.86	1.40	1.35
14	AW	102	CRT	C14-C12	3.86	1.40	1.35
9	B8	101	BCL	O2A-CGA	3.86	1.45	1.33
9	AX	101	BCL	CAA-CBA	-3.86	1.39	1.52
14	B0	101	CRT	C22-C23	3.86	1.40	1.35
9	BD	102	BCL	C1A-NA	3.86	1.40	1.32
9	B6	101	BCL	C2-C3	3.86	1.40	1.32
9	B0	102	BCL	C3B-C4B	3.86	1.46	1.40
9	BF	102	BCL	O2D-CGD	3.85	1.43	1.33
9	AB	101	BCL	C4C-NC	3.85	1.40	1.32
9	BM	402	BCL	C4C-NC	3.85	1.40	1.32
9	B2	101	BCL	C4C-NC	3.85	1.40	1.32
7	AC	501	HEM	CHB-C1B	3.85	1.41	1.35
9	BZ	101	BCL	MG-NA	3.84	2.18	2.07
9	B2	101	BCL	CHC-C1C	3.84	1.38	1.33
9	B1	102	BCL	C4C-NC	3.84	1.40	1.32
9	A6	101	BCL	C3B-C4B	3.83	1.46	1.40
9	A3	104	BCL	C3B-C4B	3.84	1.46	1.40
14	BN	102	CRT	C22-C23	3.83	1.40	1.35
9	B6	101	BCL	C3B-C4B	3.83	1.46	1.40
9	A5	102	BCL	C3B-C4B	3.83	1.46	1.40
7	BC	501	HEM	C3C-C2C	-3.83	1.40	1.45
9	AR	101	BCL	CAA-CBA	-3.83	1.39	1.52
9	AZ	101	BCL	O2A-CGA	3.83	1.45	1.33
9	BK	102	BCL	C2-C3	3.82	1.40	1.32
9	AB	101	BCL	C2-C3	3.82	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	AM	406	CRT	C19-C17	3.82	1.40	1.35
9	BL	301	BCL	C4C-NC	3.81	1.40	1.32
9	B3	102	BCL	O2A-CGA	3.81	1.45	1.33
9	AX	101	BCL	C3B-C4B	3.81	1.46	1.40
14	BN	102	CRT	C14-C12	3.80	1.40	1.35
9	BM	401	BCL	O2A-CGA	3.80	1.44	1.33
9	AY	102	BCL	C2-C3	3.80	1.40	1.32
9	AM	401	BCL	C3B-C4B	3.80	1.46	1.40
9	BT	101	BCL	CAA-CBA	-3.80	1.39	1.52
9	AN	101	BCL	C4C-NC	3.79	1.40	1.32
9	BL	303	BCL	O2D-CGD	3.79	1.43	1.33
9	BP	101	BCL	C1B-NB	3.79	1.40	1.34
9	AA	101	BCL	O2A-CGA	3.79	1.44	1.33
9	BD	102	BCL	CAA-C2A	3.78	1.61	1.54
9	BQ	104	BCL	C4B-NB	3.78	1.40	1.34
14	BS	103	CRT	C19-C17	3.78	1.40	1.35
9	B4	101	BCL	O2A-CGA	3.77	1.44	1.33
9	AS	103	BCL	CHC-C1C	3.76	1.38	1.33
14	B5	103	CRT	C19-C17	3.75	1.40	1.35
9	AP	101	BCL	O2D-CGD	3.75	1.42	1.33
9	BO	102	BCL	C4C-NC	3.75	1.40	1.32
9	AP	101	BCL	C2-C3	3.75	1.40	1.32
9	BV	101	BCL	C2-C3	3.74	1.40	1.32
9	BV	101	BCL	C4C-NC	3.74	1.40	1.32
9	BJ	101	BCL	CAA-CBA	-3.73	1.40	1.52
9	B4	101	BCL	C3B-C4B	3.72	1.46	1.40
9	A3	103	BCL	C3B-C4B	3.72	1.46	1.40
9	B8	101	BCL	C3B-C4B	3.72	1.46	1.40
9	AL	303	BCL	O2A-CGA	3.71	1.44	1.33
9	BE	101	BCL	C3B-C4B	3.71	1.46	1.40
7	AC	504	HEM	C4C-NC	-3.70	1.32	1.38
9	BX	101	BCL	C3B-C4B	3.70	1.46	1.40
9	A6	101	BCL	C4C-NC	3.70	1.40	1.32
9	AQ	102	BCL	O2A-CGA	3.70	1.44	1.33
9	BG	101	BCL	O2D-CGD	3.70	1.42	1.33
9	AP	101	BCL	C1B-C2B	3.70	1.49	1.43
9	BY	102	BCL	CAA-C2A	3.70	1.60	1.54
9	BA	101	BCL	CAA-C2A	3.69	1.60	1.54
9	BF	102	BCL	C3B-C4B	3.69	1.46	1.40
9	AQ	102	BCL	C2-C3	3.69	1.40	1.32
14	B5	103	CRT	C22-C23	3.69	1.40	1.35
14	A0	101	CRT	C22-C23	3.69	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	B7	103	BCL	C2-C3	3.69	1.40	1.32
9	AT	101	BCL	C3B-C4B	3.69	1.45	1.40
14	AP	102	CRT	C4-C5	3.69	1.55	1.50
7	BC	502	HEM	C3C-C4C	3.68	1.52	1.45
14	BF	103	CRT	C14-C12	3.68	1.40	1.35
9	AZ	101	BCL	C1A-NA	3.68	1.40	1.32
9	BV	101	BCL	O2A-CGA	3.67	1.44	1.33
9	BZ	101	BCL	C4C-NC	3.67	1.40	1.32
14	AT	102	CRT	C22-C23	3.67	1.40	1.35
9	AP	101	BCL	C3B-C4B	3.67	1.45	1.40
9	BQ	104	BCL	CAA-CBA	-3.67	1.40	1.52
9	AL	303	BCL	C4C-NC	3.65	1.40	1.32
9	AY	102	BCL	C4C-NC	3.65	1.40	1.32
9	AA	101	BCL	C3B-C4B	3.65	1.45	1.40
9	BU	102	BCL	C3B-C4B	3.65	1.45	1.40
9	B3	102	BCL	CHC-C1C	3.64	1.38	1.33
9	BP	101	BCL	C3B-C4B	3.64	1.45	1.40
14	BU	103	CRT	C14-C12	3.64	1.40	1.35
9	BD	102	BCL	O2A-CGA	3.64	1.44	1.33
7	AC	504	HEM	CHB-C1B	3.63	1.40	1.35
14	BG	102	CRT	C22-C23	3.62	1.40	1.35
9	BQ	103	BCL	C2-C3	3.62	1.40	1.32
9	A5	102	BCL	O2A-CGA	3.62	1.44	1.33
9	AQ	102	BCL	CHB-C4A	3.61	1.38	1.33
9	AJ	101	BCL	O2A-CGA	3.61	1.44	1.33
9	AJ	101	BCL	CAA-CBA	-3.61	1.40	1.52
9	BT	101	BCL	MG-NC	3.61	2.17	2.07
9	AA	101	BCL	C2-C3	3.60	1.40	1.32
14	BW	103	CRT	C22-C23	3.60	1.40	1.35
14	A2	102	CRT	C4-C5	3.60	1.55	1.50
9	A9	102	BCL	O2A-CGA	3.60	1.44	1.33
9	AJ	101	BCL	C3B-C4B	3.60	1.45	1.40
9	AN	101	BCL	C1A-NA	3.60	1.40	1.32
9	AR	101	BCL	O2A-CGA	3.59	1.44	1.33
9	A7	103	BCL	C3B-C4B	3.58	1.45	1.40
14	BM	406	CRT	C22-C23	3.58	1.40	1.35
9	A8	101	BCL	C3B-C4B	3.58	1.45	1.40
9	AM	402	BCL	O2A-CGA	3.57	1.44	1.33
9	BW	102	BCL	C1A-NA	3.57	1.40	1.32
9	BZ	101	BCL	O2A-CGA	3.56	1.44	1.33
9	BL	301	BCL	C1A-NA	3.56	1.40	1.32
14	BM	406	CRT	C19-C17	3.56	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	AR	101	BCL	C4C-NC	3.56	1.40	1.32
9	AG	101	BCL	C3B-C4B	3.55	1.45	1.40
14	BG	102	CRT	C19-C17	3.55	1.40	1.35
9	BM	401	BCL	C4C-NC	3.55	1.40	1.32
9	BM	402	BCL	O2A-CGA	3.54	1.44	1.33
14	A7	102	CRT	C27-C28	3.54	1.40	1.35
9	A9	102	BCL	C2-C3	3.53	1.40	1.32
9	A2	101	BCL	C4C-NC	3.53	1.40	1.32
9	BI	102	BCL	CAA-C2A	3.53	1.60	1.54
14	AJ	102	CRT	C19-C17	3.52	1.40	1.35
9	AV	102	BCL	C5-C3	3.52	1.59	1.51
9	BL	303	BCL	C4C-NC	3.52	1.40	1.32
9	AY	102	BCL	CHC-C1C	3.51	1.38	1.33
9	AE	101	BCL	C1A-NA	3.51	1.40	1.32
9	BD	102	BCL	O1D-CGD	3.51	1.30	1.21
14	BS	103	CRT	C22-C23	3.51	1.40	1.35
14	BA	102	CRT	C27-C28	3.51	1.40	1.35
9	AN	101	BCL	O2A-CGA	3.51	1.44	1.33
9	BL	303	BCL	C3B-C4B	3.50	1.45	1.40
9	B8	101	BCL	C5-C3	3.51	1.59	1.51
9	BT	101	BCL	C2A-C1A	3.50	1.58	1.52
9	BA	101	BCL	C2-C3	3.50	1.39	1.32
9	BQ	104	BCL	C2-C3	3.50	1.39	1.32
7	BC	502	HEM	C4C-NC	-3.50	1.33	1.38
9	AI	102	BCL	C3B-C4B	3.50	1.45	1.40
9	BM	402	BCL	C3B-C4B	3.49	1.45	1.40
9	BQ	104	BCL	O2A-CGA	3.49	1.44	1.33
7	BC	504	HEM	C1B-NB	-3.48	1.32	1.39
9	B1	102	BCL	C3B-C4B	3.47	1.45	1.40
9	BK	102	BCL	CAA-C2A	3.47	1.60	1.54
14	BW	103	CRT	C4-C5	3.47	1.55	1.50
9	AL	301	BCL	C1A-NA	3.47	1.39	1.32
9	BF	102	BCL	C2-C3	3.47	1.39	1.32
9	AB	101	BCL	C1A-NA	3.46	1.39	1.32
9	BF	102	BCL	MG-NA	3.46	2.17	2.07
9	BW	102	BCL	O2A-CGA	3.46	1.43	1.33
14	AS	104	CRT	C19-C17	3.45	1.40	1.35
9	B4	101	BCL	C2-C3	3.45	1.39	1.32
14	AX	102	CRT	C9-C7	3.44	1.40	1.35
9	AX	101	BCL	CMB-C2B	3.44	1.58	1.51
9	BY	102	BCL	C1A-NA	3.44	1.39	1.32
9	AF	102	BCL	C3B-C4B	3.44	1.45	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	BO	102	BCL	O2A-CGA	3.44	1.43	1.33
7	BC	501	HEM	C1B-NB	-3.43	1.32	1.39
14	AN	102	CRT	C22-C23	3.43	1.40	1.35
14	AG	102	CRT	C22-C23	3.43	1.40	1.35
14	AT	102	CRT	C27-C28	3.43	1.40	1.35
9	AP	101	BCL	C4B-NB	3.42	1.40	1.34
9	AG	101	BCL	C1A-NA	3.41	1.39	1.32
9	AJ	101	BCL	C2-C3	3.41	1.39	1.32
9	BO	102	BCL	C2-C3	3.41	1.39	1.32
9	A8	101	BCL	CAA-C2A	3.41	1.60	1.54
9	BU	102	BCL	C1A-NA	3.40	1.39	1.32
9	BJ	101	BCL	O2A-CGA	3.39	1.43	1.33
9	BU	102	BCL	C2-C3	3.39	1.39	1.32
9	AE	101	BCL	C3B-C4B	3.39	1.45	1.40
9	AV	102	BCL	C6-C7	3.38	1.68	1.52
7	BC	502	HEM	C1B-NB	-3.38	1.32	1.39
9	BQ	104	BCL	CHC-C1C	3.38	1.38	1.33
9	AD	102	BCL	C2-C3	3.38	1.39	1.32
14	AR	102	CRT	C22-C23	3.37	1.40	1.35
15	AM	407	PEF	P-O2P	3.37	1.69	1.55
9	BN	101	BCL	C1A-NA	3.37	1.39	1.32
15	AM	409	PEF	P-O2P	3.36	1.69	1.55
9	AU	102	BCL	C11-C10	3.36	1.68	1.52
15	AM	408	PEF	P-O2P	3.35	1.69	1.55
15	BQ	101	PEF	P-O2P	3.35	1.69	1.55
15	AH	301	PEF	P-O2P	3.34	1.69	1.55
9	AX	101	BCL	C1B-NB	3.34	1.39	1.34
7	BC	502	HEM	O2A-CGA	-3.34	1.18	1.30
15	AS	101	PEF	P-O2P	3.34	1.69	1.55
9	BS	102	BCL	C2-C3	3.34	1.39	1.32
9	A0	102	BCL	CAA-C2A	3.34	1.60	1.54
9	A2	101	BCL	CAA-CBA	-3.34	1.41	1.52
9	AJ	101	BCL	C1A-NA	3.34	1.39	1.32
15	AM	407	PEF	O3-C30	3.34	1.45	1.36
9	BI	102	BCL	CHC-C1C	3.34	1.37	1.33
9	BQ	103	BCL	O2A-CGA	3.33	1.43	1.33
9	A2	101	BCL	C3B-C2B	-3.33	1.32	1.40
9	AB	101	BCL	C3B-C4B	3.33	1.45	1.40
14	AW	102	CRT	C19-C17	3.33	1.40	1.35
9	AT	101	BCL	C1A-NA	3.33	1.39	1.32
9	BB	101	BCL	C1B-NB	3.33	1.39	1.34
9	BQ	103	BCL	MG-NA	-3.33	1.97	2.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	B2	101	BCL	C3B-C4B	3.32	1.45	1.40
15	BM	407	PEF	P-O2P	3.32	1.69	1.55
9	BO	102	BCL	MG-NA	3.32	2.17	2.07
9	A5	102	BCL	C2-C3	3.32	1.39	1.32
9	BT	101	BCL	C1A-NA	3.31	1.39	1.32
9	BL	301	BCL	C3B-C4B	3.31	1.45	1.40
14	BW	103	CRT	C14-C12	3.31	1.40	1.35
14	AA	102	CRT	C14-C12	3.31	1.40	1.35
15	AH	301	PEF	O3-C30	3.31	1.45	1.36
9	BW	102	BCL	C3C-C4C	3.31	1.55	1.51
9	B4	101	BCL	C5-C3	3.31	1.59	1.51
9	AR	101	BCL	C2-C3	3.31	1.39	1.32
9	AF	102	BCL	C1A-NA	3.30	1.39	1.32
9	AR	101	BCL	C3B-C4B	3.30	1.45	1.40
14	AA	102	CRT	C27-C28	3.29	1.40	1.35
9	BJ	101	BCL	CHB-C4A	3.29	1.37	1.33
14	BF	103	CRT	C19-C17	3.29	1.40	1.35
9	BM	402	BCL	C1A-NA	3.28	1.39	1.32
14	B7	102	CRT	C27-C28	3.28	1.40	1.35
9	AT	101	BCL	C5-C3	3.27	1.59	1.51
9	BZ	101	BCL	C1B-NB	3.27	1.39	1.34
7	BC	504	HEM	C3C-C4C	3.27	1.52	1.45
9	B8	101	BCL	MG-NA	3.27	2.16	2.07
9	AP	101	BCL	C4C-NC	3.27	1.39	1.32
14	BU	103	CRT	C22-C23	3.27	1.40	1.35
9	AM	402	BCL	C1A-NA	3.27	1.39	1.32
9	BT	101	BCL	O2A-CGA	3.27	1.43	1.33
9	AM	402	BCL	C3B-C4B	3.26	1.45	1.40
15	BM	407	PEF	O3-C30	3.26	1.45	1.36
9	AT	101	BCL	C2-C3	3.26	1.39	1.32
9	AB	101	BCL	C5-C3	3.26	1.59	1.51
9	AA	101	BCL	CAA-C2A	3.26	1.60	1.54
14	BF	103	CRT	C22-C23	3.26	1.40	1.35
9	B6	101	BCL	C1A-NA	3.26	1.39	1.32
9	AW	101	BCL	O2A-CGA	3.26	1.43	1.33
9	AI	102	BCL	C2-C3	3.26	1.39	1.32
7	AC	501	HEM	C4C-NC	-3.24	1.33	1.38
9	AP	101	BCL	CMB-C2B	3.25	1.58	1.51
9	BE	101	BCL	C3B-C2B	-3.24	1.32	1.40
14	AS	104	CRT	C27-C28	3.24	1.40	1.35
14	BO	103	CRT	C22-C23	3.24	1.40	1.35
9	BJ	101	BCL	C1B-NB	3.24	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	B8	101	BCL	CAA-CBA	-3.23	1.41	1.52
9	BX	101	BCL	C5-C3	3.23	1.58	1.51
9	BZ	101	BCL	C2-C3	3.22	1.39	1.32
9	AV	102	BCL	C1A-NA	3.22	1.39	1.32
9	B1	102	BCL	CAA-C2A	3.22	1.60	1.54
9	BT	101	BCL	C2-C3	3.21	1.39	1.32
9	AM	402	BCL	CAA-C2A	3.21	1.60	1.54
14	A1	103	CRT	C9-C7	3.21	1.40	1.35
9	AD	102	BCL	CAA-C2A	3.21	1.60	1.54
9	AS	103	BCL	C1A-NA	3.20	1.39	1.32
9	A3	104	BCL	C5-C3	3.20	1.58	1.51
7	AC	501	HEM	C3C-C2C	-3.20	1.41	1.45
14	A5	103	CRT	C22-C23	3.20	1.40	1.35
9	B5	102	BCL	MG-NC	3.20	2.16	2.07
9	BW	102	BCL	C3B-C4B	3.19	1.45	1.40
9	BX	101	BCL	C4C-NC	3.19	1.39	1.32
9	A3	104	BCL	C1A-NA	3.19	1.39	1.32
9	BQ	103	BCL	C1A-NA	3.18	1.39	1.32
9	A7	103	BCL	O2A-CGA	3.18	1.43	1.33
9	AL	303	BCL	C1A-NA	3.18	1.39	1.32
14	BS	103	CRT	C27-C28	3.17	1.39	1.35
9	BT	101	BCL	MG-NA	-3.17	1.97	2.07
14	BU	103	CRT	C19-C17	3.17	1.39	1.35
9	AA	101	BCL	C1A-NA	3.17	1.39	1.32
14	A1	103	CRT	C4-C1	3.17	1.57	1.53
9	BF	102	BCL	C3C-C4C	3.17	1.55	1.51
13	AM	405	MQ8	C3-C2	3.16	1.42	1.35
7	AC	501	HEM	C1B-NB	-3.16	1.33	1.39
9	AM	401	BCL	C4C-NC	3.16	1.39	1.32
9	BQ	104	BCL	C1A-NA	3.16	1.39	1.32
9	BN	101	BCL	C5-C3	3.16	1.58	1.51
14	B5	103	CRT	C14-C12	3.16	1.39	1.35
13	BM	405	MQ8	C11-C3	3.15	1.57	1.51
9	BL	301	BCL	O2D-CED	-3.15	1.37	1.45
9	BA	101	BCL	C3B-C4B	3.15	1.45	1.40
14	AW	102	CRT	C22-C23	3.15	1.39	1.35
9	AL	301	BCL	C3B-C4B	3.15	1.45	1.40
9	B0	102	BCL	O2A-CGA	3.15	1.42	1.33
9	B9	102	BCL	C1A-NA	3.15	1.39	1.32
9	A8	101	BCL	O2A-CGA	3.14	1.42	1.33
9	A3	103	BCL	CMB-C2B	3.14	1.58	1.51
9	BG	101	BCL	CAA-CBA	-3.14	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	AL	301	BCL	C2-C3	3.14	1.39	1.32
9	B5	102	BCL	C1B-NB	3.13	1.39	1.34
7	AC	503	HEM	C3C-C2C	-3.13	1.41	1.45
7	AC	503	HEM	C3C-C4C	3.13	1.51	1.45
9	BK	102	BCL	C1A-NA	3.13	1.39	1.32
9	AW	101	BCL	C2-C3	3.13	1.39	1.32
9	BD	102	BCL	C2-C3	3.12	1.39	1.32
9	BN	101	BCL	CAA-CBA	-3.12	1.42	1.52
10	BL	302	BPH	C1B-C2B	-3.12	1.38	1.44
9	A6	101	BCL	O2A-CGA	3.12	1.42	1.33
9	A3	103	BCL	C1B-C2B	3.12	1.48	1.43
14	AJ	102	CRT	C27-C28	3.11	1.39	1.35
9	BF	102	BCL	C4A-NA	3.11	1.43	1.38
7	BC	503	HEM	C3C-C4C	3.11	1.51	1.45
7	BC	502	HEM	C3C-C2C	-3.11	1.41	1.45
9	BB	101	BCL	C5-C3	3.11	1.58	1.51
9	BI	102	BCL	C2C-C3C	-3.11	1.45	1.54
7	BC	504	HEM	C3D-C4D	3.11	1.47	1.45
14	AS	104	CRT	C14-C12	3.10	1.39	1.35
7	BC	504	HEM	C1A-C2A	-3.10	1.39	1.43
9	B4	101	BCL	CAA-CBA	-3.10	1.42	1.52
14	BW	103	CRT	C27-C28	3.10	1.39	1.35
9	AW	101	BCL	C3B-C4B	3.10	1.45	1.40
9	AI	102	BCL	C1A-NA	3.10	1.39	1.32
9	A0	102	BCL	O2A-CGA	3.10	1.42	1.33
9	BP	101	BCL	C4B-NB	3.09	1.39	1.34
9	AL	301	BCL	O2D-CED	-3.09	1.37	1.45
9	A1	102	BCL	CMB-C2B	3.09	1.58	1.51
14	BB	102	CRT	C25-C23	-3.09	1.39	1.45
14	BB	102	CRT	C30-C28	-3.09	1.39	1.45
14	B0	101	CRT	C30-C28	-3.09	1.39	1.45
9	BP	101	BCL	MG-NC	3.08	2.16	2.07
7	AC	502	HEM	O2A-CGA	-3.08	1.19	1.30
13	AM	405	MQ8	C11-C3	3.08	1.57	1.51
9	BG	101	BCL	C5-C3	3.08	1.58	1.51
14	AB	102	CRT	C16-C17	-3.08	1.39	1.45
7	BC	503	HEM	C1A-C2A	-3.08	1.39	1.43
9	BY	102	BCL	C2-C3	3.07	1.39	1.32
9	AL	303	BCL	C3B-C4B	3.07	1.45	1.40
14	A1	103	CRT	C16-C17	-3.07	1.39	1.45
9	BW	102	BCL	C1C-NC	3.07	1.43	1.38
9	BL	301	BCL	C2-C3	3.07	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	AD	102	BCL	C1B-NB	3.06	1.39	1.34
14	A7	102	CRT	C14-C12	3.06	1.39	1.35
9	AK	102	BCL	CAA-C2A	3.05	1.59	1.54
9	AV	102	BCL	C6-C5	3.05	1.63	1.52
9	BB	101	BCL	C1A-NA	3.05	1.39	1.32
10	BM	403	BPH	C1B-C2B	-3.05	1.38	1.44
14	AG	102	CRT	C19-C17	3.05	1.39	1.35
9	BS	102	BCL	C1A-NA	3.05	1.39	1.32
14	AJ	102	CRT	C14-C12	3.04	1.39	1.35
9	A3	103	BCL	C5-C3	3.04	1.58	1.51
14	B5	103	CRT	C27-C28	3.05	1.39	1.35
9	AD	102	BCL	C1A-NA	3.04	1.39	1.32
9	B3	102	BCL	CAA-C2A	3.04	1.59	1.54
9	AR	101	BCL	CMB-C2B	3.04	1.58	1.51
9	AT	101	BCL	C2A-C1A	3.04	1.57	1.52
9	A0	102	BCL	C1A-NA	3.04	1.38	1.32
9	BG	101	BCL	C1A-NA	3.04	1.38	1.32
9	B4	101	BCL	C2A-C1A	3.04	1.57	1.52
7	AC	504	HEM	C1B-NB	-3.04	1.33	1.39
7	BC	503	HEM	C1B-NB	-3.04	1.33	1.39
9	BF	102	BCL	C2C-C3C	-3.03	1.45	1.54
9	BO	102	BCL	CAA-C2A	3.03	1.59	1.54
9	BN	101	BCL	O2A-CGA	3.03	1.42	1.33
9	AY	102	BCL	C2C-C3C	-3.03	1.45	1.54
9	BL	301	BCL	CAA-C2A	3.03	1.59	1.54
9	A6	101	BCL	C1A-NA	3.03	1.38	1.32
14	AB	102	CRT	C25-C23	-3.02	1.39	1.45
14	B1	103	CRT	C22-C23	3.02	1.39	1.35
9	A8	101	BCL	CMB-C2B	3.01	1.58	1.51
14	AM	406	CRT	C37-C38	3.01	1.57	1.53
7	AC	504	HEM	C1A-C2A	-3.01	1.39	1.43
9	A7	103	BCL	CMB-C2B	3.00	1.57	1.51
9	A6	101	BCL	C2-C3	3.00	1.38	1.32
9	AA	101	BCL	O2D-CED	-3.00	1.38	1.45
14	BV	102	CRT	C27-C28	3.00	1.39	1.35
9	BQ	104	BCL	C1B-NB	3.00	1.39	1.34
9	AO	102	BCL	C3B-C4B	3.00	1.44	1.40
9	B0	102	BCL	C1A-NA	3.00	1.38	1.32
10	BM	403	BPH	C1D-C2D	3.00	1.50	1.42
14	BM	406	CRT	C14-C12	2.99	1.39	1.35
9	B9	102	BCL	C3B-C4B	2.99	1.44	1.40
9	AV	102	BCL	C3B-C4B	2.99	1.44	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	A9	102	BCL	C3B-C4B	2.98	1.44	1.40
14	A0	101	CRT	C4-C1	2.98	1.57	1.53
10	AL	302	BPH	C1B-C2B	-2.98	1.38	1.44
9	AP	101	BCL	C1A-NA	2.98	1.38	1.32
9	A3	104	BCL	O2A-CGA	2.98	1.42	1.33
13	BM	405	MQ8	C11-C12	2.97	1.55	1.50
9	B7	103	BCL	C1B-NB	2.97	1.39	1.34
14	BG	102	CRT	C14-C12	2.97	1.39	1.35
9	BS	102	BCL	CHC-C1C	2.97	1.37	1.33
9	AX	101	BCL	C5-C3	2.97	1.58	1.51
7	BC	504	HEM	O2A-CGA	-2.97	1.20	1.30
9	B9	102	BCL	MG-NC	2.97	2.16	2.07
9	AL	301	BCL	CAA-C2A	2.97	1.59	1.54
7	BC	504	HEM	CHB-C1B	2.96	1.40	1.35
9	AU	102	BCL	C3B-C2B	-2.96	1.32	1.40
9	A2	101	BCL	C1A-NA	2.96	1.38	1.32
9	BO	102	BCL	C1A-NA	2.96	1.38	1.32
9	BJ	101	BCL	C5-C3	2.96	1.58	1.51
14	BA	102	CRT	C14-C12	2.96	1.39	1.35
7	AC	503	HEM	O2A-CGA	-2.96	1.20	1.30
7	AC	502	HEM	C1B-NB	-2.96	1.33	1.39
9	A5	102	BCL	CMB-C2B	2.95	1.57	1.51
9	A9	102	BCL	CMB-C2B	2.95	1.57	1.51
7	AC	502	HEM	C3C-C2C	-2.95	1.41	1.45
9	BX	101	BCL	C3D-C2D	-2.95	1.32	1.40
9	AX	101	BCL	O2A-CGA	2.95	1.42	1.33
9	B0	102	BCL	C2-C3	2.95	1.38	1.32
9	B3	102	BCL	C1A-NA	2.95	1.38	1.32
9	AR	101	BCL	C1A-NA	2.95	1.38	1.32
9	A0	102	BCL	C2-C3	2.94	1.38	1.32
14	AM	406	CRT	C27-C28	2.94	1.39	1.35
14	A5	103	CRT	C19-C17	2.94	1.39	1.35
9	A6	101	BCL	CAA-C2A	2.94	1.59	1.54
9	AO	102	BCL	CMB-C2B	2.94	1.57	1.51
9	AN	101	BCL	CMB-C2B	2.93	1.57	1.51
9	B1	102	BCL	C1A-NA	2.93	1.38	1.32
9	B1	102	BCL	C2C-C3C	-2.93	1.46	1.54
9	A7	103	BCL	C1B-C2B	2.93	1.48	1.43
9	BM	401	BCL	C1A-NA	2.93	1.38	1.32
14	AW	102	CRT	C27-C28	2.93	1.39	1.35
7	AC	501	HEM	C3D-C4D	2.92	1.47	1.45
9	A2	101	BCL	O1A-CGA	2.92	1.31	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	AP	101	BCL	C2C-C3C	-2.91	1.46	1.54
9	AM	401	BCL	C1A-NA	2.91	1.38	1.32
14	BU	103	CRT	C9-C7	2.90	1.39	1.35
14	BP	102	CRT	C9-C7	2.90	1.39	1.35
9	BZ	101	BCL	C3B-C4B	2.90	1.44	1.40
14	AT	102	CRT	C14-C12	2.90	1.39	1.35
9	AT	101	BCL	C4-C3	2.90	1.57	1.50
9	BK	102	BCL	MG-NC	2.89	2.15	2.07
9	AX	101	BCL	CAA-C2A	2.88	1.59	1.54
9	BT	101	BCL	CHC-C1C	2.88	1.37	1.33
9	BQ	103	BCL	CAA-CBA	-2.88	1.43	1.52
9	A1	102	BCL	C1A-NA	2.88	1.38	1.32
9	AJ	101	BCL	C5-C3	2.87	1.58	1.51
9	B8	101	BCL	C1A-NA	2.87	1.38	1.32
9	BL	303	BCL	C1A-NA	2.87	1.38	1.32
9	AV	102	BCL	O2A-CGA	2.87	1.42	1.33
9	A2	101	BCL	C2C-C3C	-2.86	1.46	1.54
9	BI	102	BCL	C4A-NA	2.85	1.42	1.38
9	B8	101	BCL	C1B-NB	2.85	1.39	1.34
9	AV	102	BCL	C4-C3	2.85	1.57	1.50
14	A0	101	CRT	C19-C17	2.85	1.39	1.35
9	B4	101	BCL	C1A-NA	2.85	1.38	1.32
9	BI	102	BCL	C5-C3	2.85	1.58	1.51
9	A6	101	BCL	MG-NA	2.84	2.15	2.07
14	B2	102	CRT	C6-C5	2.84	1.40	1.31
9	AN	101	BCL	C2-C3	2.84	1.38	1.32
9	AY	102	BCL	CMB-C2B	2.83	1.57	1.51
9	AK	102	BCL	C2-C3	2.83	1.38	1.32
7	BC	501	HEM	O2A-CGA	-2.83	1.20	1.30
9	BV	101	BCL	C1A-NA	2.83	1.38	1.32
14	AR	102	CRT	C19-C17	2.83	1.39	1.35
9	AQ	102	BCL	CMB-C2B	2.82	1.57	1.51
9	AT	101	BCL	C1B-NB	2.82	1.39	1.34
14	AG	102	CRT	C27-C28	2.82	1.39	1.35
14	BF	103	CRT	C9-C7	2.82	1.39	1.35
9	BJ	101	BCL	C1A-NA	2.82	1.38	1.32
14	A5	103	CRT	C27-C28	2.82	1.39	1.35
7	BC	504	HEM	C4A-CHB	-2.81	1.32	1.39
9	BM	402	BCL	CAA-C2A	2.81	1.59	1.54
9	BS	102	BCL	O2A-CGA	2.81	1.41	1.33
9	BL	301	BCL	MG-NA	2.81	2.15	2.07
9	BW	102	BCL	C2-C3	2.80	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	A8	101	BCL	C6-C7	2.80	1.65	1.52
9	AK	102	BCL	C1A-NA	2.80	1.38	1.32
9	AJ	101	BCL	O2D-CED	-2.80	1.38	1.45
7	BC	503	HEM	C1A-NA	2.80	1.41	1.36
9	AR	101	BCL	C2C-C3C	-2.79	1.46	1.54
7	BC	503	HEM	O2A-CGA	-2.79	1.20	1.30
9	BD	102	BCL	CMA-C3A	2.78	1.59	1.53
9	B7	103	BCL	C1A-NA	2.79	1.38	1.32
9	AN	101	BCL	C4B-NB	2.79	1.39	1.34
9	AS	103	BCL	C1B-C2B	-2.79	1.39	1.43
9	A3	104	BCL	CMB-C2B	2.78	1.57	1.51
14	BB	102	CRT	C22-C23	2.78	1.39	1.35
9	AG	101	BCL	O1A-CGA	2.78	1.30	1.22
9	AG	101	BCL	C2C-C3C	-2.78	1.46	1.54
14	B2	102	CRT	C27-C28	2.78	1.39	1.35
9	AY	102	BCL	C1B-C2B	2.78	1.48	1.43
9	AN	101	BCL	MG-ND	-2.77	1.98	2.05
10	AM	403	BPH	C1B-C2B	-2.77	1.39	1.44
9	AT	101	BCL	O1A-CGA	2.77	1.30	1.22
9	AU	102	BCL	C1D-C2D	2.77	1.49	1.42
14	A0	101	CRT	C9-C7	2.77	1.39	1.35
10	AM	403	BPH	C1D-C2D	2.77	1.49	1.42
9	B0	102	BCL	C1B-NB	2.77	1.39	1.34
9	BD	102	BCL	C5-C3	2.77	1.57	1.51
9	BX	101	BCL	C1A-NA	2.76	1.38	1.32
9	BE	101	BCL	C16-C17	2.76	1.65	1.52
9	A3	104	BCL	MG-NA	2.76	2.15	2.07
9	B9	102	BCL	C1B-NB	2.76	1.39	1.34
9	BI	102	BCL	MG-NA	-2.75	1.99	2.07
9	BJ	101	BCL	C2C-C3C	-2.75	1.46	1.54
9	B2	101	BCL	C2C-C3C	-2.75	1.46	1.54
14	BU	103	CRT	C27-C28	2.75	1.39	1.35
9	B4	101	BCL	C1B-NB	2.75	1.39	1.34
9	AZ	101	BCL	O1A-CGA	2.75	1.30	1.22
9	A8	101	BCL	C7-C8	2.75	1.67	1.52
9	AL	303	BCL	CAA-C2A	2.75	1.59	1.54
9	B5	102	BCL	C2-C3	2.74	1.38	1.32
9	A8	101	BCL	C1B-C2B	2.74	1.48	1.43
9	BM	402	BCL	C1B-NB	2.74	1.39	1.34
9	AZ	101	BCL	CAA-C2A	2.73	1.59	1.54
9	BX	101	BCL	C2C-C3C	-2.73	1.46	1.54
9	BZ	101	BCL	C5-C3	2.73	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	B3	102	BCL	C2C-C3C	-2.73	1.46	1.54
14	AP	102	CRT	C27-C28	2.73	1.39	1.35
9	BL	303	BCL	C2-C3	2.73	1.38	1.32
9	AJ	101	BCL	C2C-C3C	-2.73	1.46	1.54
9	AK	102	BCL	CMB-C2B	2.73	1.57	1.51
9	A0	102	BCL	C2C-C3C	-2.73	1.46	1.54
9	BD	102	BCL	C4A-NA	2.73	1.42	1.38
14	BN	102	CRT	C27-C28	2.72	1.39	1.35
7	AC	501	HEM	C1A-NA	2.72	1.40	1.36
9	BE	101	BCL	CBA-CGA	-2.72	1.42	1.50
9	AL	303	BCL	C2-C3	2.72	1.38	1.32
9	A0	102	BCL	MG-NC	2.72	2.15	2.07
9	AZ	101	BCL	C2-C3	2.71	1.38	1.32
14	B2	102	CRT	C15-C16	2.71	1.41	1.34
9	AZ	101	BCL	C2A-C1A	2.71	1.57	1.52
7	AC	502	HEM	C1A-C2A	-2.71	1.39	1.43
9	AO	102	BCL	C2C-C3C	-2.71	1.46	1.54
9	AW	101	BCL	C3A-C2A	-2.71	1.46	1.54
9	BU	102	BCL	CMB-C2B	2.71	1.57	1.51
9	BO	102	BCL	C2C-C3C	-2.70	1.46	1.54
7	AC	501	HEM	C1D-ND	-2.70	1.32	1.38
14	BV	102	CRT	C15-C16	2.70	1.41	1.34
9	BM	401	BCL	C2-C3	2.70	1.38	1.32
9	BE	101	BCL	CMB-C2B	2.69	1.57	1.51
9	BE	101	BCL	C1A-NA	2.69	1.38	1.32
14	A1	103	CRT	C19-C17	2.69	1.39	1.35
7	BC	501	HEM	C1A-NA	2.68	1.40	1.36
14	AN	102	CRT	C19-C17	2.69	1.39	1.35
9	B1	102	BCL	C2-C3	2.69	1.38	1.32
9	A9	102	BCL	C1A-NA	2.68	1.38	1.32
9	BZ	101	BCL	CAA-CBA	-2.68	1.43	1.52
9	A2	101	BCL	O2D-CGD	2.68	1.40	1.33
9	AT	101	BCL	C2C-C3C	-2.67	1.46	1.54
14	A2	102	CRT	C27-C28	2.68	1.39	1.35
9	BJ	101	BCL	C3B-C2B	-2.67	1.33	1.40
9	A8	101	BCL	C2-C3	2.67	1.38	1.32
9	A8	101	BCL	C3A-C2A	-2.67	1.46	1.54
9	A3	104	BCL	C2-C3	2.67	1.38	1.32
9	B2	101	BCL	O1A-CGA	2.67	1.30	1.22
9	A6	101	BCL	CMB-C2B	2.67	1.57	1.51
7	AC	504	HEM	C4A-CHB	-2.67	1.32	1.39
9	B7	103	BCL	MG-NC	2.66	2.15	2.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	AE	101	BCL	C2C-C3C	-2.66	1.46	1.54
9	BQ	104	BCL	CMB-C2B	2.66	1.57	1.51
9	A1	102	BCL	C1B-NB	2.66	1.38	1.34
9	BS	102	BCL	CAA-C2A	2.66	1.58	1.54
9	BT	101	BCL	C4A-NA	2.66	1.42	1.38
9	BO	102	BCL	C1B-NB	2.65	1.38	1.34
9	A1	102	BCL	C3A-C4A	2.65	1.58	1.51
9	A7	103	BCL	C2-C3	2.64	1.38	1.32
9	B0	102	BCL	O2D-CED	-2.64	1.38	1.45
14	BS	103	CRT	C14-C12	2.64	1.39	1.35
14	AM	406	CRT	C14-C12	2.64	1.39	1.35
9	A9	102	BCL	C1B-C2B	2.64	1.47	1.43
9	AO	102	BCL	C3A-C2A	-2.64	1.46	1.54
9	A5	102	BCL	C1B-C2B	2.64	1.47	1.43
9	AU	102	BCL	CAA-CBA	-2.64	1.43	1.52
9	AO	102	BCL	C3B-C2B	-2.64	1.33	1.40
9	A1	102	BCL	C1B-C2B	2.64	1.47	1.43
9	BN	101	BCL	C1B-NB	2.63	1.38	1.34
9	A7	103	BCL	C2C-C3C	-2.63	1.46	1.54
9	AM	401	BCL	CAA-C2A	2.63	1.58	1.54
9	AP	101	BCL	C1C-NC	2.63	1.42	1.38
9	A2	101	BCL	O2D-CED	-2.63	1.38	1.45
9	B5	102	BCL	C1A-NA	2.63	1.38	1.32
14	B1	103	CRT	C25-C23	-2.63	1.40	1.45
14	A2	102	CRT	C9-C7	2.63	1.39	1.35
9	A9	102	BCL	C2C-C3C	-2.63	1.46	1.54
9	AR	101	BCL	MG-NA	2.63	2.15	2.07
14	BB	102	CRT	C16-C17	-2.63	1.40	1.45
9	B8	101	BCL	C2-C3	2.63	1.38	1.32
9	A3	103	BCL	C2C-C3C	-2.63	1.46	1.54
14	AG	102	CRT	C14-C12	2.63	1.39	1.35
14	B2	102	CRT	C21-C20	2.63	1.42	1.35
9	BI	102	BCL	CMB-C2B	2.62	1.57	1.51
9	BQ	104	BCL	MG-NC	2.62	2.15	2.07
9	A8	101	BCL	C4B-NB	2.62	1.38	1.34
9	BI	102	BCL	C3B-C2B	-2.62	1.33	1.40
9	AG	101	BCL	C5-C3	2.62	1.57	1.51
9	AU	102	BCL	CMB-C2B	2.62	1.57	1.51
9	BZ	101	BCL	C1A-NA	2.61	1.38	1.32
9	BE	101	BCL	C4A-NA	2.61	1.42	1.38
14	BP	102	CRT	C27-C28	2.61	1.39	1.35
9	AL	301	BCL	MG-NA	2.61	2.15	2.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	BI	102	BCL	C1B-NB	2.61	1.38	1.34
9	BJ	101	BCL	CMB-C2B	2.60	1.57	1.51
9	BQ	104	BCL	O1A-CGA	2.60	1.30	1.22
14	B7	102	CRT	C15-C16	2.60	1.41	1.34
14	BM	406	CRT	C27-C28	2.60	1.39	1.35
9	A6	101	BCL	C2C-C3C	-2.60	1.47	1.54
9	AG	101	BCL	C1B-NB	2.60	1.38	1.34
9	BK	102	BCL	CMB-C2B	2.59	1.57	1.51
9	B4	101	BCL	CAA-C2A	2.59	1.58	1.54
9	AB	101	BCL	O2D-CED	-2.59	1.39	1.45
9	BW	102	BCL	MG-NC	2.59	2.14	2.07
9	BG	101	BCL	O2D-CED	-2.59	1.39	1.45
9	BU	102	BCL	C2C-C3C	-2.59	1.47	1.54
9	BQ	104	BCL	O2D-CED	-2.59	1.39	1.45
9	BY	102	BCL	C5-C3	2.58	1.57	1.51
14	AB	102	CRT	C30-C28	-2.58	1.40	1.45
14	AW	102	CRT	C9-C7	2.58	1.39	1.35
9	AM	401	BCL	C2-C3	2.58	1.38	1.32
9	BD	102	BCL	C2C-C3C	-2.58	1.47	1.54
9	BK	102	BCL	C5-C3	2.58	1.57	1.51
9	B5	102	BCL	CAA-CBA	-2.58	1.44	1.52
10	AL	302	BPH	C1D-C2D	2.57	1.49	1.42
9	BL	303	BCL	CAA-C2A	2.57	1.58	1.54
9	AS	103	BCL	C3B-C4B	2.57	1.44	1.40
9	AL	303	BCL	C3B-C2B	-2.57	1.33	1.40
9	AU	102	BCL	C2-C3	2.57	1.38	1.32
9	BM	401	BCL	C1B-NB	2.57	1.38	1.34
7	BC	503	HEM	C4A-CHB	-2.56	1.32	1.39
9	AN	101	BCL	C1B-NB	2.56	1.38	1.34
9	A3	104	BCL	C2C-C3C	-2.56	1.47	1.54
9	A8	101	BCL	C1A-NA	2.56	1.37	1.32
9	BQ	104	BCL	C1C-NC	2.56	1.42	1.38
9	BX	101	BCL	O1A-CGA	2.55	1.30	1.22
13	BM	405	MQ8	C3-C2	2.55	1.41	1.35
9	AY	102	BCL	C4-C3	2.55	1.57	1.50
9	AF	102	BCL	C5-C3	2.55	1.57	1.51
7	BC	502	HEM	C1D-ND	-2.55	1.32	1.38
9	A0	102	BCL	CMB-C2B	2.55	1.57	1.51
9	AP	101	BCL	C1B-NB	2.55	1.38	1.34
9	AE	101	BCL	O2D-CED	-2.55	1.39	1.45
9	B4	101	BCL	MG-NC	2.55	2.14	2.07
14	BG	102	CRT	C30-C28	-2.55	1.40	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	AK	102	BCL	C1B-C2B	2.54	1.47	1.43
9	B3	102	BCL	C2-C3	2.54	1.38	1.32
9	AB	101	BCL	CAA-CBA	-2.54	1.44	1.52
9	BG	101	BCL	CMB-C2B	2.54	1.57	1.51
9	AP	101	BCL	C5-C3	2.54	1.57	1.51
9	AA	101	BCL	C1B-NB	2.54	1.38	1.34
7	AC	502	HEM	C1D-ND	-2.54	1.32	1.38
14	BN	102	CRT	C4-C5	2.54	1.54	1.50
9	B9	102	BCL	C2C-C3C	-2.54	1.47	1.54
9	B3	102	BCL	MG-NC	2.53	2.14	2.07
9	BP	101	BCL	MG-ND	-2.53	1.99	2.05
9	BL	301	BCL	C1B-NB	2.53	1.38	1.34
9	AW	101	BCL	C3B-C2B	-2.53	1.33	1.40
9	BP	101	BCL	C2C-C3C	-2.53	1.47	1.54
9	AU	102	BCL	C1B-C2B	2.53	1.47	1.43
9	B0	102	BCL	MG-NC	2.53	2.14	2.07
9	A7	103	BCL	MG-NC	2.52	2.14	2.07
9	AB	101	BCL	C2C-C3C	-2.52	1.47	1.54
9	AF	102	BCL	C4-C3	2.52	1.57	1.50
9	AI	102	BCL	C2C-C3C	-2.52	1.47	1.54
9	AT	101	BCL	O2A-CGA	2.52	1.41	1.33
9	AE	101	BCL	MG-NC	2.52	2.14	2.07
9	BY	102	BCL	C4B-NB	2.52	1.38	1.34
9	B6	101	BCL	C2C-C3C	-2.52	1.47	1.54
9	AW	101	BCL	C2C-C3C	-2.52	1.47	1.54
9	AN	101	BCL	C1B-C2B	2.52	1.47	1.43
9	BT	101	BCL	C4D-ND	-2.51	1.31	1.38
14	B7	102	CRT	C9-C7	2.51	1.39	1.35
9	A0	102	BCL	C1B-NB	2.51	1.38	1.34
9	A5	102	BCL	MG-NC	2.51	2.14	2.07
9	BX	101	BCL	CAA-CBA	-2.51	1.44	1.52
9	BP	101	BCL	C1A-NA	2.51	1.37	1.32
9	AT	101	BCL	C3B-C2B	-2.51	1.34	1.40
9	BV	101	BCL	C4B-NB	2.51	1.38	1.34
9	A8	101	BCL	C2C-C3C	-2.51	1.47	1.54
9	AF	102	BCL	CAA-CBA	-2.50	1.44	1.52
7	BC	502	HEM	C1A-C2A	-2.50	1.40	1.43
9	AL	303	BCL	C2C-C3C	-2.50	1.47	1.54
9	A5	102	BCL	C4-C3	2.50	1.57	1.50
13	BM	405	MQ8	C10-C5	2.50	1.44	1.40
9	AA	101	BCL	C2C-C3C	-2.50	1.47	1.54
9	BU	102	BCL	MG-NC	2.50	2.14	2.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	AY	102	BCL	O2A-C1	2.49	1.54	1.46
9	B1	102	BCL	C3B-C2B	-2.49	1.34	1.40
14	AN	102	CRT	C27-C28	2.49	1.39	1.35
9	A3	104	BCL	C2A-C1A	2.49	1.56	1.52
9	AL	301	BCL	C2C-C3C	-2.48	1.47	1.54
9	BX	101	BCL	CMB-C2B	2.48	1.56	1.51
14	B0	101	CRT	C15-C16	2.48	1.41	1.34
14	BO	103	CRT	C19-C17	2.48	1.39	1.35
9	AM	401	BCL	C2C-C3C	-2.48	1.47	1.54
14	B1	103	CRT	C19-C17	2.48	1.39	1.35
9	BF	102	BCL	MG-NC	2.48	2.14	2.07
9	AQ	102	BCL	C4-C3	2.48	1.56	1.50
9	AF	102	BCL	O2D-CED	-2.48	1.39	1.45
9	BF	102	BCL	CMB-C2B	2.47	1.56	1.51
9	BL	303	BCL	C3B-C2B	-2.47	1.34	1.40
9	BS	102	BCL	CMB-C2B	2.47	1.56	1.51
9	AV	102	BCL	C1B-NB	2.47	1.38	1.34
9	BJ	101	BCL	MG-ND	-2.47	1.99	2.05
7	BC	501	HEM	C1A-C2A	-2.47	1.40	1.43
9	BY	102	BCL	C2C-C3C	-2.47	1.47	1.54
9	AQ	102	BCL	C3B-C2B	-2.46	1.34	1.40
9	BE	101	BCL	C19-C18	2.46	1.66	1.51
9	BE	101	BCL	C2C-C3C	-2.46	1.47	1.54
9	B6	101	BCL	C1B-NB	2.46	1.38	1.34
9	AL	301	BCL	C1B-NB	2.46	1.38	1.34
7	AC	501	HEM	O2A-CGA	-2.46	1.21	1.30
9	AA	101	BCL	C4-C3	2.45	1.56	1.50
9	BG	101	BCL	C4A-NA	2.45	1.42	1.38
7	AC	504	HEM	C1D-ND	-2.45	1.32	1.38
9	B2	101	BCL	C1A-NA	2.45	1.37	1.32
9	BJ	101	BCL	C4-C3	2.45	1.56	1.50
9	AY	102	BCL	CAA-CBA	-2.45	1.44	1.52
9	A8	101	BCL	C1B-NB	2.45	1.38	1.34
9	AE	101	BCL	C1B-NB	2.45	1.38	1.34
9	AD	102	BCL	C2C-C3C	-2.45	1.47	1.54
7	AC	502	HEM	C1A-CHA	-2.45	1.33	1.39
9	AD	102	BCL	C5-C3	2.45	1.57	1.51
14	AB	102	CRT	C22-C23	2.44	1.39	1.35
9	B4	101	BCL	C2C-C3C	-2.44	1.47	1.54
14	B1	103	CRT	C16-C17	-2.44	1.40	1.45
9	BQ	103	BCL	CBD-CGD	-2.44	1.42	1.52
9	AI	102	BCL	C5-C3	2.44	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	BA	101	BCL	C1B-NB	2.44	1.38	1.34
9	A5	102	BCL	C2C-C3C	-2.44	1.47	1.54
14	BV	102	CRT	C21-C20	2.44	1.42	1.35
9	A7	103	BCL	C3A-C4A	2.44	1.58	1.51
9	BP	101	BCL	C1C-NC	2.44	1.42	1.38
9	BL	301	BCL	C5-C3	2.43	1.57	1.51
9	BA	101	BCL	C5-C3	2.43	1.57	1.51
14	BO	103	CRT	C16-C17	-2.43	1.40	1.45
14	BV	102	CRT	C32-C33	2.43	1.38	1.35
7	BC	501	HEM	C4A-CHB	-2.43	1.33	1.39
9	AG	101	BCL	MG-NC	2.43	2.14	2.07
9	BU	102	BCL	C4A-NA	2.43	1.42	1.38
14	BO	103	CRT	C25-C23	-2.43	1.40	1.45
9	AW	101	BCL	C4-C3	2.42	1.56	1.50
14	BU	103	CRT	C8-C7	2.43	1.56	1.50
9	BW	102	BCL	C4A-NA	2.42	1.42	1.38
9	BE	101	BCL	O2D-CED	-2.42	1.39	1.45
9	B5	102	BCL	C2C-C3C	-2.42	1.47	1.54
9	A6	101	BCL	C4B-NB	2.42	1.38	1.34
9	AQ	102	BCL	MG-NC	2.42	2.14	2.07
9	B3	102	BCL	C5-C3	2.42	1.57	1.51
14	BV	102	CRT	C37-C36	2.41	1.53	1.50
9	A1	102	BCL	C4-C3	2.41	1.56	1.50
9	AX	101	BCL	C2C-C3C	-2.41	1.47	1.54
14	A5	103	CRT	C14-C12	2.41	1.38	1.35
9	AZ	101	BCL	CMC-C2C	2.41	1.58	1.53
9	B5	102	BCL	C4B-NB	2.40	1.38	1.34
9	AF	102	BCL	C1B-NB	2.40	1.38	1.34
14	BU	103	CRT	C16-C17	-2.40	1.40	1.45
9	A6	101	BCL	C1B-NB	2.40	1.38	1.34
9	A3	103	BCL	MG-NC	2.40	2.14	2.07
9	BM	402	BCL	C2-C3	2.40	1.37	1.32
9	BW	102	BCL	C1D-C2D	2.40	1.48	1.42
9	AN	101	BCL	C2C-C3C	-2.40	1.47	1.54
9	AQ	102	BCL	CAA-C2A	2.40	1.58	1.54
9	B7	103	BCL	C5-C3	2.40	1.57	1.51
9	A2	101	BCL	O2A-CGA	2.40	1.40	1.33
9	B6	101	BCL	MG-NC	2.40	2.14	2.07
9	A5	102	BCL	C1A-NA	2.40	1.37	1.32
9	AU	102	BCL	C2C-C3C	-2.39	1.47	1.54
9	BN	101	BCL	C4-C3	2.39	1.56	1.50
9	AJ	101	BCL	MG-NC	2.39	2.14	2.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	AC	504	HEM	C3B-CAB	2.39	1.48	1.40
9	A3	103	BCL	C1A-NA	2.39	1.37	1.32
9	AF	102	BCL	C2C-C3C	-2.39	1.47	1.54
9	BM	401	BCL	C2C-C3C	-2.39	1.47	1.54
14	A1	103	CRT	C6-C5	2.39	1.38	1.31
9	B8	101	BCL	C2C-C3C	-2.39	1.47	1.54
14	AB	102	CRT	C11-C12	-2.38	1.40	1.45
9	BL	301	BCL	C2C-C3C	-2.39	1.47	1.54
9	B7	103	BCL	C2C-C3C	-2.38	1.47	1.54
9	B0	102	BCL	C2C-C3C	-2.38	1.47	1.54
14	AN	102	CRT	C16-C17	-2.38	1.40	1.45
9	AS	103	BCL	C1C-NC	2.38	1.42	1.38
9	A3	103	BCL	C4B-NB	2.38	1.38	1.34
9	BV	101	BCL	C5-C3	2.38	1.56	1.51
10	BL	302	BPH	C3D-C2D	-2.37	1.34	1.40
9	B0	102	BCL	CAA-CBA	-2.37	1.44	1.52
9	BM	401	BCL	C4-C3	2.37	1.56	1.50
9	AR	101	BCL	O2D-CED	-2.37	1.39	1.45
7	AC	503	HEM	C1B-NB	-2.37	1.34	1.39
9	AX	101	BCL	O1A-CGA	2.37	1.29	1.22
14	AN	102	CRT	C14-C12	2.37	1.38	1.35
9	AT	101	BCL	MG-NA	2.37	2.14	2.07
9	AL	301	BCL	C5-C3	2.37	1.56	1.51
9	BV	101	BCL	O2D-CED	-2.36	1.39	1.45
7	BC	501	HEM	C2C-C1C	2.36	1.49	1.45
9	AP	101	BCL	MG-NC	2.36	2.14	2.07
9	AB	101	BCL	O1A-CGA	2.36	1.29	1.22
14	B0	101	CRT	C4-C5	2.36	1.53	1.50
9	B4	101	BCL	O2D-CED	-2.36	1.39	1.45
9	AP	101	BCL	C2A-C1A	2.36	1.56	1.52
9	AS	103	BCL	C2C-C3C	-2.35	1.47	1.54
14	AN	102	CRT	C25-C23	-2.35	1.40	1.45
9	BD	102	BCL	CBD-CGD	2.35	1.61	1.52
14	BN	102	CRT	C9-C7	2.35	1.38	1.35
9	B1	102	BCL	CMA-C3A	2.35	1.58	1.53
9	B9	102	BCL	CMB-C2B	2.35	1.56	1.51
9	AK	102	BCL	C2C-C3C	-2.35	1.47	1.54
9	BV	101	BCL	C3B-C4B	2.35	1.43	1.40
14	BB	102	CRT	C14-C12	2.35	1.38	1.35
9	AJ	101	BCL	C1B-NB	2.35	1.38	1.34
9	AB	101	BCL	CAA-C2A	2.34	1.58	1.54
9	B7	103	BCL	CMB-C2B	2.34	1.56	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	B3	102	BCL	C3B-C4B	2.34	1.43	1.40
9	AV	102	BCL	C2C-C3C	-2.34	1.47	1.54
9	AQ	102	BCL	CAA-CBA	-2.34	1.44	1.52
14	B1	103	CRT	C30-C28	-2.34	1.40	1.45
14	BU	103	CRT	C25-C23	-2.34	1.40	1.45
14	AT	102	CRT	C32-C33	2.34	1.38	1.35
9	AK	102	BCL	C3B-C2B	-2.34	1.34	1.40
9	BB	101	BCL	CAA-CBA	-2.34	1.44	1.52
9	B6	101	BCL	O1A-CGA	2.34	1.29	1.22
9	A1	102	BCL	C2C-C3C	-2.34	1.47	1.54
9	AU	102	BCL	CMD-C2D	2.34	1.56	1.51
9	A8	101	BCL	O2D-CED	-2.33	1.39	1.45
9	A9	102	BCL	MG-NC	2.33	2.14	2.07
9	AY	102	BCL	O1D-CGD	2.33	1.27	1.21
9	B2	101	BCL	C5-C3	2.33	1.56	1.51
9	BQ	104	BCL	C1B-C2B	2.33	1.47	1.43
9	BG	101	BCL	O1A-CGA	2.33	1.29	1.22
9	A2	101	BCL	CAA-C2A	2.33	1.58	1.54
9	AM	402	BCL	C1B-NB	2.33	1.38	1.34
9	AW	101	BCL	CMA-C3A	2.32	1.58	1.53
9	B1	102	BCL	CMB-C2B	2.33	1.56	1.51
9	A8	101	BCL	C4-C3	2.32	1.56	1.50
14	BG	102	CRT	C25-C23	-2.32	1.40	1.45
9	BA	101	BCL	C2C-C3C	-2.32	1.47	1.54
14	BF	103	CRT	C25-C23	-2.32	1.40	1.45
7	BC	504	HEM	CHD-C4C	-2.32	1.32	1.36
9	A3	104	BCL	O2D-CED	-2.32	1.39	1.45
14	BB	102	CRT	C19-C17	2.32	1.38	1.35
9	A7	103	BCL	C3A-C2A	-2.32	1.47	1.54
14	BO	103	CRT	C27-C28	2.32	1.38	1.35
9	BM	402	BCL	C2C-C3C	-2.32	1.47	1.54
9	BI	102	BCL	C3B-CAB	-2.32	1.42	1.49
10	BL	302	BPH	CHD-C4C	2.32	1.50	1.42
9	BX	101	BCL	CHC-C1C	2.32	1.36	1.33
14	A1	103	CRT	C30-C28	-2.31	1.40	1.45
7	AC	504	HEM	O2A-CGA	-2.31	1.22	1.30
9	A3	104	BCL	C4B-NB	2.31	1.38	1.34
9	AF	102	BCL	C4B-NB	2.31	1.38	1.34
9	B0	102	BCL	C5-C3	2.31	1.56	1.51
9	BN	101	BCL	CMC-C2C	2.31	1.58	1.53
14	A1	103	CRT	C4-C5	2.31	1.53	1.50
9	AW	101	BCL	CMB-C2B	2.31	1.56	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	B3	102	BCL	CMB-C2B	2.31	1.56	1.51
9	AG	101	BCL	O2D-CED	-2.30	1.39	1.45
9	AK	102	BCL	C2A-C1A	2.30	1.56	1.52
9	BI	102	BCL	C4-C3	2.30	1.56	1.50
9	BD	102	BCL	CMB-C2B	2.30	1.56	1.51
9	BO	102	BCL	CMB-C2B	2.30	1.56	1.51
14	B2	102	CRT	C9-C7	2.30	1.38	1.35
13	AM	405	MQ8	C10-C5	2.30	1.44	1.40
9	BN	101	BCL	C6-C5	2.30	1.60	1.52
14	AR	102	CRT	C27-C28	2.30	1.38	1.35
9	AA	101	BCL	C4B-NB	2.30	1.38	1.34
14	A1	103	CRT	C25-C23	-2.30	1.40	1.45
14	A7	102	CRT	C9-C7	2.30	1.38	1.35
9	BJ	101	BCL	C3B-CAB	-2.29	1.42	1.49
9	BK	102	BCL	C2C-C3C	-2.29	1.47	1.54
14	AR	102	CRT	C16-C17	-2.29	1.40	1.45
9	A8	101	BCL	C10-C8	2.29	1.64	1.52
9	AT	101	BCL	MG-NC	2.29	2.14	2.07
9	BX	101	BCL	CMA-C3A	2.29	1.58	1.53
9	BJ	101	BCL	O2D-CED	-2.28	1.39	1.45
9	A6	101	BCL	C1B-C2B	2.28	1.47	1.43
9	AQ	102	BCL	C2C-C3C	-2.28	1.47	1.54
9	BW	102	BCL	C1B-NB	2.28	1.38	1.34
9	AO	102	BCL	C1B-C2B	2.28	1.47	1.43
9	BX	101	BCL	C2A-C1A	2.28	1.56	1.52
14	BO	103	CRT	C30-C28	-2.28	1.40	1.45
9	BF	102	BCL	C5-C3	2.28	1.56	1.51
9	BP	101	BCL	CMB-C2B	2.28	1.56	1.51
7	AC	504	HEM	C1A-NA	2.28	1.40	1.36
14	A0	101	CRT	C6-C5	2.28	1.38	1.31
9	AZ	101	BCL	C4D-ND	-2.27	1.32	1.38
9	AP	101	BCL	O1A-CGA	2.27	1.29	1.22
14	BP	102	CRT	C25-C23	-2.27	1.40	1.45
7	AC	501	HEM	C4A-CHB	-2.27	1.33	1.39
14	AR	102	CRT	C25-C23	-2.27	1.40	1.45
9	AI	102	BCL	C1B-NB	2.27	1.38	1.34
14	BM	406	CRT	C9-C7	2.27	1.38	1.35
9	BV	101	BCL	O1A-CGA	2.27	1.29	1.22
9	BS	102	BCL	C2C-C3C	-2.27	1.47	1.54
9	AQ	102	BCL	O1D-CGD	2.27	1.26	1.21
9	AA	101	BCL	CMB-C2B	2.27	1.56	1.51
9	AO	102	BCL	CAA-C2A	2.26	1.58	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	BM	406	CRT	C37-C36	2.26	1.53	1.50
9	B2	101	BCL	C1B-NB	2.26	1.38	1.34
9	B0	102	BCL	CAA-C2A	2.26	1.58	1.54
9	A5	102	BCL	C4B-NB	2.26	1.38	1.34
9	AK	102	BCL	CMA-C3A	2.26	1.58	1.53
9	BK	102	BCL	C4-C3	2.26	1.56	1.50
9	BQ	103	BCL	C2C-C3C	-2.26	1.48	1.54
14	BF	103	CRT	C27-C28	2.26	1.38	1.35
9	AI	102	BCL	CMB-C2B	2.26	1.56	1.51
9	AZ	101	BCL	CMB-C2B	2.25	1.56	1.51
9	B8	101	BCL	CMB-C2B	2.25	1.56	1.51
9	AN	101	BCL	C4-C3	2.25	1.56	1.50
14	B0	101	CRT	C21-C20	2.25	1.41	1.35
10	BL	302	BPH	C1D-C2D	2.25	1.48	1.42
9	A9	102	BCL	C4B-NB	2.25	1.38	1.34
9	AO	102	BCL	C4-C3	2.25	1.56	1.50
9	BL	301	BCL	C3B-C2B	-2.25	1.34	1.40
9	AI	102	BCL	C4-C3	2.25	1.56	1.50
9	BT	101	BCL	C1C-NC	2.25	1.41	1.38
9	A1	102	BCL	CMA-C3A	2.24	1.58	1.53
9	B5	102	BCL	CMB-C2B	2.24	1.56	1.51
14	AR	102	CRT	C30-C28	-2.24	1.41	1.45
9	AY	102	BCL	C1B-NB	2.24	1.38	1.34
9	BB	101	BCL	C4-C3	2.24	1.56	1.50
9	A7	103	BCL	CAA-CBA	-2.24	1.45	1.52
9	BA	101	BCL	CMA-C3A	2.24	1.58	1.53
9	A9	102	BCL	C4-C3	2.24	1.56	1.50
7	BC	501	HEM	CAD-CBD	2.24	1.58	1.52
9	AO	102	BCL	C1A-NA	2.24	1.37	1.32
9	AM	401	BCL	C1B-NB	2.24	1.38	1.34
9	A9	102	BCL	O2D-CED	-2.23	1.39	1.45
14	B0	101	CRT	C35-C33	-2.23	1.41	1.45
14	AW	102	CRT	C25-C23	-2.23	1.41	1.45
9	A3	103	BCL	C2-C3	2.23	1.37	1.32
9	A3	104	BCL	C1B-NB	2.23	1.38	1.34
9	A0	102	BCL	O2D-CED	-2.23	1.39	1.45
9	AU	102	BCL	CMC-C2C	2.23	1.58	1.53
9	BE	101	BCL	MG-NC	2.23	2.13	2.07
14	AG	102	CRT	C25-C23	-2.23	1.41	1.45
9	BD	102	BCL	CHD-C4C	-2.22	1.34	1.41
9	BV	101	BCL	C2C-C3C	-2.22	1.48	1.54
9	AS	103	BCL	C4-C3	2.22	1.56	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	BA	101	BCL	CMB-C2B	2.22	1.56	1.51
14	AX	102	CRT	C30-C28	-2.22	1.41	1.45
9	BW	102	BCL	C3B-C2B	-2.22	1.34	1.40
9	AF	102	BCL	CMB-C2B	2.22	1.56	1.51
14	AX	102	CRT	C4-C5	2.22	1.53	1.50
14	A2	102	CRT	C15-C16	2.22	1.40	1.34
14	AX	102	CRT	C26-C25	2.22	1.40	1.34
9	BK	102	BCL	C1B-NB	2.22	1.38	1.34
9	B6	101	BCL	C4-C3	2.22	1.56	1.50
9	BN	101	BCL	MG-ND	-2.21	2.00	2.05
9	BY	102	BCL	C4-C3	2.21	1.56	1.50
7	AC	501	HEM	C3B-C2B	-2.21	1.42	1.45
9	BE	101	BCL	C16-C15	2.21	1.62	1.52
9	BG	101	BCL	C4-C3	2.21	1.56	1.50
9	BD	102	BCL	C4-C3	2.21	1.56	1.50
14	AN	102	CRT	C30-C28	-2.21	1.41	1.45
9	B4	101	BCL	C4-C3	2.21	1.56	1.50
9	AZ	101	BCL	C3D-C2D	-2.21	1.34	1.40
9	B7	103	BCL	C4-C3	2.21	1.56	1.50
9	BX	101	BCL	MG-NC	2.21	2.13	2.07
14	A7	102	CRT	C32-C33	2.21	1.38	1.35
9	BY	102	BCL	C3D-C2D	-2.21	1.34	1.40
9	B8	101	BCL	C4B-NB	2.21	1.38	1.34
9	BL	303	BCL	C2C-C3C	-2.21	1.48	1.54
9	AD	102	BCL	C4A-NA	2.20	1.41	1.38
14	AR	102	CRT	C14-C12	2.20	1.38	1.35
9	BL	303	BCL	C1B-NB	2.20	1.38	1.34
9	A3	103	BCL	C4-C3	2.20	1.56	1.50
9	AE	101	BCL	CMB-C2B	2.20	1.56	1.51
9	BV	101	BCL	CMB-C2B	2.20	1.56	1.51
14	BG	102	CRT	C27-C28	2.20	1.38	1.35
9	AR	101	BCL	C1B-NB	2.20	1.38	1.34
14	BF	103	CRT	C4-C5	2.20	1.53	1.50
9	BO	102	BCL	CMA-C3A	2.20	1.58	1.53
9	BZ	101	BCL	CMB-C2B	2.20	1.56	1.51
9	BX	101	BCL	C1B-NB	2.20	1.38	1.34
9	A3	103	BCL	C3A-C4A	2.19	1.57	1.51
9	B2	101	BCL	C4-C3	2.19	1.56	1.50
9	BW	102	BCL	CMC-C2C	2.19	1.58	1.53
9	AR	101	BCL	C3C-C4C	-2.19	1.48	1.51
14	B2	102	CRT	C32-C33	2.18	1.38	1.35
9	B9	102	BCL	C4-C3	2.19	1.56	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	AC	501	HEM	O2D-CGD	-2.18	1.22	1.30
9	BQ	103	BCL	C4-C3	2.18	1.56	1.50
9	AM	402	BCL	C2-C3	2.18	1.37	1.32
14	BN	102	CRT	C30-C28	-2.18	1.41	1.45
9	BQ	103	BCL	CHB-C4A	2.18	1.36	1.33
7	BC	502	HEM	C1A-CHA	-2.18	1.33	1.39
9	BZ	101	BCL	C2C-C3C	-2.18	1.48	1.54
9	B0	102	BCL	CMB-C2B	2.18	1.56	1.51
14	A1	103	CRT	C27-C28	2.18	1.38	1.35
7	BC	504	HEM	C1D-ND	-2.18	1.33	1.38
9	AL	301	BCL	C4-C3	2.18	1.56	1.50
9	BQ	103	BCL	C1B-CHB	-2.18	1.33	1.39
9	BA	101	BCL	C4-C3	2.17	1.56	1.50
14	BO	103	CRT	C14-C12	2.17	1.38	1.35
14	A5	103	CRT	C25-C23	-2.17	1.41	1.45
9	AU	102	BCL	C4-C3	2.17	1.56	1.50
9	AW	101	BCL	C1A-NA	2.17	1.37	1.32
9	AP	101	BCL	MG-ND	-2.17	2.00	2.05
9	A1	102	BCL	CBA-CGA	2.17	1.57	1.50
9	AM	402	BCL	C2C-C3C	-2.17	1.48	1.54
9	AE	101	BCL	C4-C3	2.17	1.56	1.50
9	A5	102	BCL	CAA-CBA	-2.17	1.45	1.52
13	BM	405	MQ8	C6-C5	2.17	1.43	1.39
9	BM	402	BCL	C4B-NB	2.16	1.38	1.34
9	BX	101	BCL	C4A-NA	2.16	1.41	1.38
9	AB	101	BCL	C1B-NB	2.16	1.38	1.34
9	BT	101	BCL	C4B-NB	2.16	1.38	1.34
9	BS	102	BCL	C1B-NB	2.16	1.38	1.34
9	BV	101	BCL	C4-C3	2.16	1.56	1.50
9	A9	102	BCL	CAA-CBA	-2.16	1.45	1.52
9	AS	103	BCL	C1B-CHB	2.16	1.45	1.39
9	AB	101	BCL	CMB-C2B	2.15	1.56	1.51
9	BM	402	BCL	C3B-C2B	-2.15	1.34	1.40
14	BN	102	CRT	C15-C16	2.15	1.40	1.34
7	BC	503	HEM	C4B-NB	2.15	1.43	1.38
9	BE	101	BCL	C1C-NC	2.15	1.41	1.38
9	BQ	104	BCL	C2C-C3C	-2.15	1.48	1.54
7	AC	503	HEM	C2B-C1B	-2.15	1.43	1.45
9	AJ	101	BCL	C4-C3	2.15	1.56	1.50
10	AL	302	BPH	C3D-C2D	-2.15	1.34	1.40
10	AL	302	BPH	CHD-C4C	2.15	1.50	1.42
7	AC	504	HEM	C3D-C4D	2.15	1.47	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	BI	102	BCL	CMA-C3A	2.14	1.58	1.53
9	AV	102	BCL	C7-C8	2.14	1.64	1.52
9	AR	101	BCL	C3B-C2B	-2.14	1.34	1.40
9	AA	101	BCL	O1D-CGD	2.14	1.26	1.21
14	B2	102	CRT	C26-C25	2.14	1.40	1.34
14	AP	102	CRT	C9-C7	2.14	1.38	1.35
9	BW	102	BCL	C2C-C3C	-2.14	1.48	1.54
14	A5	103	CRT	C16-C17	-2.14	1.41	1.45
9	AM	401	BCL	C3B-C2B	-2.14	1.34	1.40
9	AM	401	BCL	C4-C3	2.14	1.56	1.50
9	AN	101	BCL	C3C-C4C	-2.14	1.48	1.51
9	BB	101	BCL	CAA-C2A	2.14	1.58	1.54
9	AJ	101	BCL	CMB-C2B	2.13	1.56	1.51
9	BJ	101	BCL	CMA-C3A	2.13	1.58	1.53
14	BU	103	CRT	C30-C28	-2.13	1.41	1.45
14	BP	102	CRT	C15-C16	2.13	1.40	1.34
9	B4	101	BCL	CMB-C2B	2.13	1.56	1.51
9	BZ	101	BCL	O2D-CED	-2.13	1.40	1.45
9	AA	101	BCL	C5-C3	2.12	1.56	1.51
9	BT	101	BCL	C2C-C3C	-2.13	1.48	1.54
7	AC	502	HEM	CMC-C2C	2.13	1.54	1.47
9	BP	101	BCL	MG-NA	2.12	2.13	2.07
9	B7	103	BCL	C4B-NB	2.12	1.38	1.34
9	B0	102	BCL	C2A-C1A	2.12	1.56	1.52
9	AD	102	BCL	C4-C3	2.12	1.56	1.50
9	BS	102	BCL	CMA-C3A	2.12	1.58	1.53
7	AC	503	HEM	C2A-C3A	-2.12	1.31	1.37
10	BM	403	BPH	C3D-C2D	-2.12	1.34	1.40
9	AT	101	BCL	MG-ND	-2.12	2.00	2.05
9	BW	102	BCL	C4-C3	2.12	1.56	1.50
9	BQ	103	BCL	CAA-C2A	2.12	1.58	1.54
9	AG	101	BCL	CBA-CGA	-2.12	1.44	1.50
9	B5	102	BCL	MG-NA	2.12	2.13	2.07
14	BW	103	CRT	C16-C17	-2.12	1.41	1.45
7	AC	502	HEM	C3B-C2B	-2.12	1.42	1.45
9	BX	101	BCL	C4-C3	2.12	1.56	1.50
14	BV	102	CRT	C26-C25	2.11	1.40	1.34
14	AW	102	CRT	C16-C17	-2.11	1.41	1.45
9	BQ	104	BCL	C4-C3	2.11	1.56	1.50
9	AV	102	BCL	C2A-C1A	2.11	1.56	1.52
9	A5	102	BCL	O2D-CED	-2.11	1.40	1.45
9	A3	103	BCL	MG-NA	2.11	2.13	2.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	AP	102	CRT	C25-C23	-2.11	1.41	1.45
9	AS	103	BCL	MG-NC	2.11	2.13	2.07
14	AN	102	CRT	C11-C12	-2.10	1.41	1.45
9	A1	102	BCL	C3B-C2B	-2.10	1.35	1.40
9	AN	101	BCL	C5-C3	2.10	1.56	1.51
9	B2	101	BCL	C3B-C2B	-2.10	1.35	1.40
10	AM	403	BPH	C1B-NB	2.10	1.39	1.36
9	A0	102	BCL	C4-C3	2.10	1.56	1.50
9	AL	301	BCL	C4B-NB	2.10	1.38	1.34
14	BB	102	CRT	C9-C7	2.10	1.38	1.35
9	AL	303	BCL	C1B-NB	2.10	1.38	1.34
14	AM	406	CRT	C9-C7	2.10	1.38	1.35
9	BM	401	BCL	CAA-C2A	2.10	1.57	1.54
9	A3	104	BCL	C1B-C2B	2.10	1.47	1.43
9	B4	101	BCL	O1A-CGA	2.10	1.28	1.22
7	AC	503	HEM	C4A-C3A	2.10	1.47	1.43
9	A7	103	BCL	CMA-C3A	2.10	1.58	1.53
9	BL	303	BCL	C4-C3	2.10	1.56	1.50
9	AM	402	BCL	C3B-C2B	-2.09	1.35	1.40
9	A1	102	BCL	CAA-CBA	-2.09	1.45	1.52
9	BW	102	BCL	C5-C3	2.09	1.56	1.51
7	AC	502	HEM	C4A-CHB	-2.09	1.34	1.39
14	BS	103	CRT	C16-C17	-2.09	1.41	1.45
10	BM	403	BPH	CHD-C4C	2.09	1.49	1.42
9	BQ	103	BCL	C2A-C1A	-2.09	1.48	1.52
9	BQ	103	BCL	CMA-C3A	2.09	1.58	1.53
9	AU	102	BCL	C1A-NA	2.09	1.36	1.32
9	AE	101	BCL	O1A-CGA	2.09	1.28	1.22
14	A1	103	CRT	C15-C14	-2.09	1.37	1.43
9	A6	101	BCL	MG-NC	2.09	2.13	2.07
14	AX	102	CRT	C10-C11	2.09	1.40	1.34
9	A7	103	BCL	C1A-NA	2.09	1.36	1.32
14	AM	406	CRT	C21-C20	2.09	1.41	1.35
9	AA	101	BCL	MG-NC	2.08	2.13	2.07
9	AI	102	BCL	MG-NC	2.08	2.13	2.07
9	B4	101	BCL	CMC-C2C	2.08	1.58	1.53
9	AZ	101	BCL	C1B-NB	2.08	1.37	1.34
9	BI	102	BCL	C3B-C4B	2.08	1.43	1.40
14	BN	102	CRT	C25-C23	-2.08	1.41	1.45
9	AD	102	BCL	C4B-NB	2.08	1.37	1.34
14	BW	103	CRT	C37-C36	2.08	1.53	1.50
9	BT	101	BCL	O1A-CGA	2.08	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	BU	102	BCL	CMC-C2C	2.08	1.58	1.53
9	BT	101	BCL	C4-C3	2.08	1.55	1.50
10	AM	403	BPH	C3D-C2D	-2.07	1.35	1.40
9	AU	102	BCL	MG-NC	2.07	2.13	2.07
14	BM	406	CRT	C25-C23	-2.07	1.41	1.45
7	AC	503	HEM	CMD-C2D	2.07	1.54	1.47
14	BU	103	CRT	C10-C9	-2.07	1.37	1.43
9	AG	101	BCL	CMB-C2B	2.07	1.56	1.51
9	BE	101	BCL	C1-C2	-2.07	1.42	1.49
9	BM	402	BCL	MG-NA	2.07	2.13	2.07
9	BS	102	BCL	CAA-CBA	-2.07	1.45	1.52
14	B1	103	CRT	C27-C28	2.07	1.38	1.35
9	BG	101	BCL	CMC-C2C	2.07	1.58	1.53
14	AW	102	CRT	C37-C36	2.06	1.53	1.50
9	BU	102	BCL	C4D-ND	-2.07	1.33	1.38
9	BK	102	BCL	C1C-NC	2.06	1.41	1.38
14	A5	103	CRT	C30-C28	-2.06	1.41	1.45
9	AR	101	BCL	C3D-C2D	-2.06	1.35	1.40
9	AW	101	BCL	C3C-C4C	2.06	1.54	1.51
9	BM	401	BCL	C3B-C2B	-2.06	1.35	1.40
9	A9	102	BCL	O2A-C1	2.06	1.53	1.46
9	BP	101	BCL	C4-C3	2.06	1.55	1.50
9	BY	102	BCL	C4A-NA	2.06	1.41	1.38
9	BE	101	BCL	C1B-NB	2.06	1.37	1.34
9	AV	102	BCL	MG-NC	2.06	2.13	2.07
9	AZ	101	BCL	C3B-C2B	-2.06	1.35	1.40
9	B0	102	BCL	MG-ND	-2.05	2.00	2.05
9	BP	101	BCL	O2D-CED	-2.05	1.40	1.45
14	AS	104	CRT	C30-C28	-2.05	1.41	1.45
9	A1	102	BCL	C2A-C1A	2.05	1.56	1.52
14	AJ	102	CRT	C25-C23	-2.05	1.41	1.45
9	AV	102	BCL	CMA-C3A	2.05	1.58	1.53
9	A2	101	BCL	C4-C3	2.05	1.55	1.50
7	BC	501	HEM	C1D-ND	-2.05	1.33	1.38
7	BC	501	HEM	CMC-C2C	2.05	1.54	1.47
9	AQ	102	BCL	C1A-NA	2.05	1.36	1.32
9	BL	301	BCL	C4B-NB	2.04	1.37	1.34
9	AK	102	BCL	C5-C3	2.04	1.56	1.51
14	AG	102	CRT	C16-C17	-2.04	1.41	1.45
7	AC	503	HEM	C1A-NA	2.04	1.39	1.36
9	A6	101	BCL	O1A-CGA	2.04	1.28	1.22
9	AY	102	BCL	C1A-NA	2.04	1.36	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	AQ	102	BCL	C5-C3	2.04	1.56	1.51
14	AT	102	CRT	C16-C17	-2.04	1.41	1.45
9	BT	101	BCL	O2D-CED	-2.04	1.40	1.45
9	A9	102	BCL	MG-NA	2.04	2.13	2.07
7	AC	501	HEM	CMC-C2C	2.04	1.53	1.47
14	BV	102	CRT	C4-C5	2.04	1.53	1.50
7	BC	503	HEM	CMC-C2C	2.04	1.53	1.47
7	AC	502	HEM	C2B-C1B	-2.04	1.43	1.45
9	AB	101	BCL	C4-C3	2.03	1.55	1.50
14	AT	102	CRT	C4-C5	2.03	1.53	1.50
9	BE	101	BCL	MG-ND	-2.03	2.00	2.05
10	BL	302	BPH	O2D-CGD	2.03	1.38	1.33
9	B5	102	BCL	C4-C3	2.03	1.55	1.50
9	BO	102	BCL	C3B-C2B	-2.03	1.35	1.40
14	AP	102	CRT	C15-C16	2.03	1.40	1.34
9	AB	101	BCL	C4B-NB	2.02	1.37	1.34
9	BY	102	BCL	CMB-C2B	2.03	1.55	1.51
9	B8	101	BCL	C6-C5	2.03	1.59	1.52
14	BV	102	CRT	C4-C1	2.03	1.56	1.53
9	BB	101	BCL	C4D-CHA	2.02	1.47	1.38
14	A5	103	CRT	C4-C5	2.02	1.53	1.50
9	BX	101	BCL	MG-ND	-2.02	2.00	2.05
9	BP	101	BCL	C5-C3	2.02	1.56	1.51
7	AC	503	HEM	CMC-C2C	2.02	1.53	1.47
9	AX	101	BCL	MG-NC	2.02	2.13	2.07
14	AW	102	CRT	C32-C33	2.02	1.38	1.35
9	AN	101	BCL	MG-NC	2.02	2.13	2.07
9	B9	102	BCL	C4B-NB	2.01	1.37	1.34
9	BF	102	BCL	C4-C3	2.01	1.55	1.50
9	B2	101	BCL	MG-NC	2.01	2.13	2.07
9	A1	102	BCL	MG-NC	2.01	2.13	2.07
9	AM	402	BCL	CMB-C2B	2.01	1.55	1.51
14	BM	406	CRT	C21-C20	2.01	1.41	1.35
14	A7	102	CRT	C26-C25	2.01	1.39	1.34
9	AZ	101	BCL	C4-C3	2.01	1.55	1.50
9	BA	101	BCL	C4A-NA	2.01	1.41	1.38
9	BM	402	BCL	C4-C3	2.00	1.55	1.50
14	A7	102	CRT	C15-C16	2.00	1.39	1.34
9	B2	101	BCL	CMB-C2B	2.00	1.55	1.51
14	BF	103	CRT	C30-C28	-2.00	1.41	1.45
9	AV	102	BCL	O2D-CED	-2.00	1.40	1.45
9	BQ	103	BCL	CMB-C2B	2.00	1.55	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	BL	301	BCL	CMA-C3A	2.00	1.57	1.53
9	B1	102	BCL	C4-C3	2.00	1.55	1.50
9	BS	102	BCL	C4B-NB	2.00	1.37	1.34
9	B4	101	BCL	MG-ND	-2.00	2.00	2.05
9	BK	102	BCL	C3B-C2B	-2.00	1.35	1.40

All (2679) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AW	101	BCL	O2A-C1-C2	29.87	176.53	108.12
9	A0	102	BCL	O2A-C1-C2	25.22	165.88	108.12
9	A3	104	BCL	O2A-C1-C2	22.17	158.90	108.12
9	AZ	101	BCL	O2A-C1-C2	18.26	149.94	108.12
9	A8	101	BCL	O2A-C1-C2	17.41	147.99	108.12
9	AX	101	BCL	O2A-C1-C2	17.33	147.82	108.12
14	A7	102	CRT	C20-C21-C22	-16.82	86.41	123.45
9	A9	102	BCL	O2A-C1-C2	16.41	145.70	108.12
9	A5	102	BCL	O2A-C1-C2	15.98	144.71	108.12
9	AU	102	BCL	O2A-C1-C2	15.52	143.66	108.12
9	A2	101	BCL	O2A-C1-C2	13.88	139.91	108.12
9	AZ	101	BCL	C1-O2A-CGA	12.23	152.58	117.00
14	A7	102	CRT	C21-C22-C23	-10.83	111.64	127.29
9	B8	101	BCL	C1-C2-C3	10.51	144.47	126.23
9	A7	103	BCL	O2A-C1-C2	10.06	131.15	108.12
9	BM	402	BCL	C1-C2-C3	10.01	143.59	126.23
9	AN	101	BCL	C1-C2-C3	9.85	143.32	126.23
9	A8	101	BCL	C1-C2-C3	9.76	143.17	126.23
9	AE	101	BCL	C1-C2-C3	9.65	142.97	126.23
9	B0	102	BCL	C1-C2-C3	9.63	142.93	126.23
9	B4	101	BCL	C1-C2-C3	9.35	142.45	126.23
14	A7	102	CRT	C21-C20-C19	-9.24	103.09	123.45
9	BP	101	BCL	C1-C2-C3	9.18	142.16	126.23
9	AJ	101	BCL	C1-C2-C3	9.11	142.03	126.23
9	BX	101	BCL	C1-C2-C3	9.04	141.91	126.23
9	AP	101	BCL	C1-C2-C3	8.79	141.48	126.23
9	B7	103	BCL	C1-C2-C3	8.64	141.22	126.23
9	A9	102	BCL	C1-C2-C3	8.63	141.19	126.23
9	AA	101	BCL	C1-C2-C3	8.56	141.07	126.23
9	BV	101	BCL	C1-C2-C3	8.53	141.02	126.23
9	AB	101	BCL	C1-C2-C3	8.52	141.00	126.23
9	BB	101	BCL	C1-C2-C3	8.46	140.91	126.23
9	A1	102	BCL	C1-C2-C3	8.42	140.83	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	B2	101	BCL	C1-C2-C3	8.38	140.76	126.23
9	BE	101	BCL	C1-C2-C3	8.30	140.63	126.23
9	A2	101	BCL	C1-C2-C3	8.29	140.61	126.23
9	AX	101	BCL	C1-C2-C3	8.19	140.44	126.23
9	A6	101	BCL	C1-C2-C3	8.18	140.42	126.23
9	A0	102	BCL	C1-C2-C3	8.15	140.36	126.23
9	AF	102	BCL	C1-C2-C3	8.14	140.35	126.23
9	BY	102	BCL	C1-C2-C3	8.11	140.30	126.23
9	AM	402	BCL	C1-C2-C3	8.07	140.23	126.23
9	A3	104	BCL	C1-C2-C3	8.07	140.22	126.23
9	B9	102	BCL	C1-C2-C3	8.01	140.12	126.23
9	BT	101	BCL	C1-C2-C3	7.99	140.09	126.23
9	BA	101	BCL	C1-C2-C3	7.97	140.06	126.23
9	B6	101	BCL	C1-C2-C3	7.96	140.04	126.23
9	BK	102	BCL	C1-C2-C3	7.92	139.97	126.23
9	BO	102	BCL	C4-C3-C5	-7.89	103.40	115.39
9	BQ	103	BCL	C1-C2-C3	7.89	139.91	126.23
9	A9	102	BCL	C1-O2A-CGA	-7.88	94.07	117.00
9	B5	102	BCL	C1-C2-C3	7.88	139.90	126.23
9	BS	102	BCL	C1-C2-C3	7.88	139.89	126.23
9	AL	303	BCL	C1-C2-C3	7.86	139.86	126.23
9	A5	102	BCL	C1-C2-C3	7.85	139.85	126.23
9	BI	102	BCL	C1-C2-C3	7.85	139.84	126.23
9	AR	101	BCL	C1-C2-C3	7.76	139.69	126.23
14	BF	103	CRT	C4-C5-C6	-7.72	112.32	124.96
9	AU	102	BCL	C1-C2-C3	7.71	139.60	126.23
9	AQ	102	BCL	C1-C2-C3	7.69	139.56	126.23
9	AS	103	BCL	C4-C3-C5	-7.68	103.72	115.39
9	AS	103	BCL	C1-C2-C3	7.67	139.53	126.23
9	A7	103	BCL	C1-C2-C3	7.66	139.52	126.23
9	BL	303	BCL	C1-C2-C3	7.65	139.49	126.23
9	AY	102	BCL	C1-C2-C3	7.63	139.46	126.23
9	BU	102	BCL	C1-C2-C3	7.61	139.43	126.23
9	AM	401	BCL	C1-C2-C3	7.61	139.43	126.23
9	AG	101	BCL	C1-C2-C3	7.58	139.37	126.23
9	B3	102	BCL	C1-C2-C3	7.58	139.37	126.23
9	BM	401	BCL	C1-C2-C3	7.55	139.32	126.23
9	AD	102	BCL	C1-C2-C3	7.49	139.22	126.23
9	B1	102	BCL	C1-C2-C3	7.49	139.22	126.23
9	BX	101	BCL	C4-C3-C5	-7.48	104.03	115.39
9	BP	101	BCL	C4-C3-C5	-7.48	104.03	115.39
14	AS	104	CRT	C37-C36-C35	-7.47	112.73	124.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AI	102	BCL	C1-C2-C3	7.47	139.19	126.23
9	BQ	104	BCL	C1-C2-C3	7.45	139.15	126.23
9	BB	101	BCL	C4-C3-C5	-7.45	104.07	115.39
9	BS	102	BCL	C4-C3-C5	-7.44	104.09	115.39
9	AG	101	BCL	C4-C3-C5	-7.37	104.19	115.39
9	BU	102	BCL	C4-C3-C5	-7.36	104.21	115.39
9	AP	101	BCL	C4-C3-C5	-7.35	104.22	115.39
9	BG	101	BCL	C4-C3-C5	-7.34	104.25	115.39
9	AK	102	BCL	C1-C2-C3	7.33	138.94	126.23
9	A2	101	BCL	C4-C3-C5	-7.32	104.27	115.39
9	AX	101	BCL	C4-C3-C5	-7.32	104.27	115.39
9	AO	102	BCL	C1-C2-C3	7.27	138.85	126.23
9	BD	102	BCL	C1-C2-C3	7.26	138.82	126.23
9	AZ	101	BCL	C4-C3-C5	-7.26	104.37	115.39
9	BW	102	BCL	C1-C2-C3	7.23	138.77	126.23
9	AY	102	BCL	C4-C3-C5	-7.20	104.45	115.39
14	BU	103	CRT	C10-C9-C7	-7.20	116.88	127.29
9	AB	101	BCL	C4-C3-C5	-7.19	104.47	115.39
9	AW	101	BCL	C1-C2-C3	7.18	138.69	126.23
9	AD	102	BCL	OBB-CAB-C3B	7.18	131.75	120.08
9	AK	102	BCL	C4-C3-C5	-7.18	104.49	115.39
9	AE	101	BCL	C4-C3-C5	-7.16	104.52	115.39
9	BF	102	BCL	C1-C2-C3	7.16	138.64	126.23
9	B6	101	BCL	C4-C3-C5	-7.16	104.52	115.39
9	BJ	101	BCL	C1-C2-C3	7.15	138.63	126.23
9	BG	101	BCL	C1-C2-C3	7.14	138.61	126.23
9	B2	101	BCL	C4-C3-C5	-7.11	104.60	115.39
9	AD	102	BCL	C4-C3-C5	-7.08	104.63	115.39
9	BQ	103	BCL	C4-C3-C5	-7.07	104.64	115.39
9	BO	102	BCL	C1-C2-C3	7.06	138.48	126.23
9	AO	102	BCL	C4-C3-C5	-7.04	104.69	115.39
9	AM	402	BCL	C4-C3-C5	-7.03	104.71	115.39
9	AW	101	BCL	C4-C3-C5	-7.00	104.76	115.39
9	BK	102	BCL	C4-C3-C5	-6.95	104.83	115.39
9	BW	102	BCL	C4-C3-C5	-6.94	104.86	115.39
9	A1	102	BCL	C4-C3-C5	-6.93	104.86	115.39
9	BU	102	BCL	OBB-CAB-C3B	6.93	131.34	120.08
9	B9	102	BCL	C4-C3-C5	-6.91	104.89	115.39
9	AF	102	BCL	C4-C3-C5	-6.91	104.90	115.39
9	A9	102	BCL	C4-C3-C5	-6.90	104.91	115.39
9	AJ	101	BCL	C4-C3-C5	-6.90	104.91	115.39
9	A6	101	BCL	C4-C3-C5	-6.90	104.92	115.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	B1	102	BCL	C4-C3-C5	-6.88	104.95	115.39
9	A1	102	BCL	OBB-CAB-C3B	6.87	131.25	120.08
9	AY	102	BCL	OBB-CAB-C3B	6.87	131.24	120.08
9	A8	101	BCL	C1-O2A-CGA	6.87	136.98	117.00
9	A2	101	BCL	OBB-CAB-C3B	6.85	131.21	120.08
9	A7	103	BCL	C4-C3-C5	-6.85	104.99	115.39
9	BZ	101	BCL	C1-C2-C3	6.83	138.07	126.23
9	AQ	102	BCL	C4-C3-C5	-6.81	105.04	115.39
9	BD	102	BCL	OBB-CAB-C3B	6.80	131.14	120.08
9	AZ	101	BCL	OBB-CAB-C3B	6.78	131.10	120.08
9	AR	101	BCL	C4-C3-C5	-6.78	105.10	115.39
9	BF	102	BCL	C4-C3-C5	-6.77	105.11	115.39
9	B1	102	BCL	OBB-CAB-C3B	6.77	131.08	120.08
9	BE	101	BCL	OBB-CAB-C3B	6.77	131.08	120.08
9	BQ	104	BCL	C4-C3-C5	-6.74	105.15	115.39
9	BY	102	BCL	OBB-CAB-C3B	6.74	131.03	120.08
9	AB	101	BCL	OBB-CAB-C3B	6.71	130.99	120.08
9	B3	102	BCL	C4-C3-C5	-6.71	105.20	115.39
9	BQ	103	BCL	OBB-CAB-C3B	6.69	130.96	120.08
14	AX	102	CRT	C10-C9-C7	-6.69	117.62	127.29
9	BJ	101	BCL	C4-C3-C5	-6.69	105.23	115.39
9	AZ	101	BCL	C1-C2-C3	6.68	137.82	126.23
9	AL	303	BCL	C4-C3-C5	-6.68	105.25	115.39
9	BY	102	BCL	C4-C3-C5	-6.67	105.26	115.39
9	A3	104	BCL	C4-C3-C5	-6.66	105.27	115.39
9	BD	102	BCL	C4-C3-C5	-6.66	105.28	115.39
9	BW	102	BCL	OBB-CAB-C3B	6.65	130.89	120.08
9	BI	102	BCL	OBB-CAB-C3B	6.65	130.89	120.08
9	A5	102	BCL	C4-C3-C5	-6.62	105.33	115.39
9	BI	102	BCL	C4-C3-C5	-6.62	105.33	115.39
9	AA	101	BCL	OBB-CAB-C3B	6.60	130.81	120.08
9	AN	101	BCL	C4-C3-C5	-6.59	105.38	115.39
9	A3	103	BCL	C1-C2-C3	6.58	137.64	126.23
9	AQ	102	BCL	OBB-CAB-C3B	6.58	130.76	120.08
9	BM	401	BCL	OBB-CAB-C3B	6.57	130.76	120.08
9	BJ	101	BCL	OBB-CAB-C3B	6.57	130.76	120.08
9	BV	101	BCL	C4-C3-C5	-6.57	105.41	115.39
9	AT	101	BCL	C1-C2-C3	6.57	137.62	126.23
9	B0	102	BCL	C4-C3-C5	-6.57	105.42	115.39
9	B8	101	BCL	CAA-C2A-C1A	6.57	129.91	112.51
9	B5	102	BCL	C4-C3-C5	-6.56	105.42	115.39
9	AU	102	BCL	OBB-CAB-C3B	6.55	130.72	120.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	A0	102	BCL	C4-C3-C5	-6.53	105.47	115.39
9	BG	101	BCL	OBB-CAB-C3B	6.53	130.69	120.08
9	AU	102	BCL	C4-C3-C5	-6.53	105.48	115.39
9	AW	101	BCL	OBB-CAB-C3B	6.52	130.67	120.08
9	BL	303	BCL	C4-C3-C5	-6.51	105.50	115.39
9	AI	102	BCL	C4-C3-C5	-6.51	105.51	115.39
9	B2	101	BCL	OBB-CAB-C3B	6.51	130.65	120.08
9	AT	101	BCL	OBB-CAB-C3B	6.50	130.63	120.08
9	BK	102	BCL	OBB-CAB-C3B	6.49	130.63	120.08
9	BM	402	BCL	C4-C3-C5	-6.49	105.53	115.39
9	BM	402	BCL	OBB-CAB-C3B	6.48	130.61	120.08
9	BT	101	BCL	OBB-CAB-C3B	6.48	130.60	120.08
9	AM	401	BCL	OBB-CAB-C3B	6.47	130.59	120.08
9	BT	101	BCL	C4-C3-C5	-6.47	105.57	115.39
9	AS	103	BCL	OBB-CAB-C3B	6.46	130.57	120.08
9	A7	103	BCL	OBB-CAB-C3B	6.45	130.56	120.08
9	BL	301	BCL	OBB-CAB-C3B	6.45	130.56	120.08
9	AL	301	BCL	OBB-CAB-C3B	6.44	130.54	120.08
9	AI	102	BCL	OBB-CAB-C3B	6.44	130.54	120.08
9	AK	102	BCL	OBB-CAB-C3B	6.43	130.53	120.08
9	BN	101	BCL	C4-C3-C5	-6.42	105.64	115.39
9	AV	102	BCL	OBB-CAB-C3B	6.42	130.51	120.08
9	AF	102	BCL	OBB-CAB-C3B	6.42	130.50	120.08
9	BF	102	BCL	OBB-CAB-C3B	6.41	130.50	120.08
14	A1	103	CRT	C10-C9-C7	-6.41	118.02	127.29
9	AJ	101	BCL	OBB-CAB-C3B	6.41	130.50	120.08
9	B7	103	BCL	C4-C3-C5	-6.41	105.66	115.39
9	B0	102	BCL	OBB-CAB-C3B	6.41	130.49	120.08
9	B7	103	BCL	OBB-CAB-C3B	6.40	130.48	120.08
9	BO	102	BCL	OBB-CAB-C3B	6.40	130.48	120.08
9	AE	101	BCL	CAA-C2A-C1A	6.39	129.45	112.51
9	A5	102	BCL	OBB-CAB-C3B	6.38	130.45	120.08
9	AM	401	BCL	C4-C3-C5	-6.38	105.70	115.39
14	B7	102	CRT	C4-C5-C6	-6.37	114.54	124.96
9	B4	101	BCL	C4-C3-C5	-6.36	105.72	115.39
9	BX	101	BCL	OBB-CAB-C3B	6.36	130.42	120.08
9	A0	102	BCL	OBB-CAB-C3B	6.36	130.42	120.08
9	B3	102	BCL	OBB-CAB-C3B	6.36	130.41	120.08
9	A3	103	BCL	OBB-CAB-C3B	6.35	130.40	120.08
9	BA	101	BCL	OBB-CAB-C3B	6.34	130.38	120.08
9	A6	101	BCL	OBB-CAB-C3B	6.33	130.37	120.08
9	AP	101	BCL	OBB-CAB-C3B	6.32	130.35	120.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BM	401	BCL	C4-C3-C5	-6.32	105.79	115.39
9	B6	101	BCL	OBB-CAB-C3B	6.32	130.34	120.08
9	AG	101	BCL	OBB-CAB-C3B	6.31	130.33	120.08
9	B4	101	BCL	OBB-CAB-C3B	6.31	130.33	120.08
9	B5	102	BCL	OBB-CAB-C3B	6.31	130.33	120.08
9	AV	102	BCL	C4-C3-C5	-6.30	105.82	115.39
9	AN	101	BCL	OBB-CAB-C3B	6.30	130.32	120.08
9	BN	101	BCL	OBB-CAB-C3B	6.30	130.31	120.08
9	BZ	101	BCL	OBB-CAB-C3B	6.30	130.31	120.08
9	BA	101	BCL	C4-C3-C5	-6.29	105.84	115.39
9	AM	402	BCL	OBB-CAB-C3B	6.29	130.29	120.08
9	A3	104	BCL	OBB-CAB-C3B	6.28	130.29	120.08
9	AO	102	BCL	OBB-CAB-C3B	6.26	130.26	120.08
9	A9	102	BCL	OBB-CAB-C3B	6.26	130.25	120.08
9	B9	102	BCL	OBB-CAB-C3B	6.25	130.23	120.08
9	BL	303	BCL	OBB-CAB-C3B	6.24	130.23	120.08
9	AL	303	BCL	OBB-CAB-C3B	6.24	130.21	120.08
9	B8	101	BCL	OBB-CAB-C3B	6.22	130.18	120.08
9	BB	101	BCL	OBB-CAB-C3B	6.21	130.17	120.08
9	AX	101	BCL	OBB-CAB-C3B	6.19	130.13	120.08
9	BP	101	BCL	OBB-CAB-C3B	6.18	130.13	120.08
9	A8	101	BCL	OBB-CAB-C3B	6.18	130.12	120.08
14	BF	103	CRT	C37-C36-C35	-6.16	114.87	124.96
9	AR	101	BCL	OBB-CAB-C3B	6.16	130.08	120.08
9	BS	102	BCL	OBB-CAB-C3B	6.15	130.07	120.08
9	BX	101	BCL	CAA-C2A-C3A	-6.15	97.92	113.32
9	BZ	101	BCL	C4-C3-C5	-6.14	106.06	115.39
9	B4	101	BCL	CAA-C2A-C1A	6.13	128.76	112.51
9	AA	101	BCL	C4-C3-C5	-6.13	106.09	115.39
9	BV	101	BCL	OBB-CAB-C3B	6.12	130.03	120.08
9	BL	301	BCL	C1-C2-C3	6.09	136.79	126.23
14	B1	103	CRT	C37-C36-C35	-6.07	115.02	124.96
9	BQ	104	BCL	OBB-CAB-C3B	6.05	129.90	120.08
9	BN	101	BCL	C1-C2-C3	6.04	136.70	126.23
9	BL	301	BCL	C4-C3-C5	-6.04	106.22	115.39
9	A1	102	BCL	O2A-CGA-CBA	6.03	130.37	111.90
9	AL	301	BCL	C1-C2-C3	6.03	136.70	126.23
9	B8	101	BCL	C4-C3-C5	-6.02	106.25	115.39
9	AE	101	BCL	OBB-CAB-C3B	6.00	129.83	120.08
9	A3	104	BCL	CAA-C2A-C1A	5.99	128.40	112.51
14	BV	102	CRT	C37-C36-C35	-5.95	115.22	124.96
14	AX	102	CRT	C15-C14-C12	-5.93	118.72	127.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AX	101	BCL	CAA-C2A-C1A	5.92	128.20	112.51
9	AP	101	BCL	CAA-C2A-C1A	5.88	128.10	112.51
14	B0	101	CRT	C26-C27-C28	-5.78	118.93	127.29
14	BU	103	CRT	C5-C6-C7	-5.74	117.28	125.94
14	B2	102	CRT	C4-C5-C6	-5.74	115.56	124.96
9	AY	102	BCL	CBA-CAA-C2A	5.73	127.96	113.95
9	AL	301	BCL	C4-C3-C5	-5.71	106.71	115.39
9	AB	101	BCL	CAA-C2A-C1A	5.68	127.57	112.51
14	AT	102	CRT	C4-C5-C6	-5.67	115.68	124.96
9	BE	101	BCL	C4-C3-C5	-5.66	106.80	115.39
9	AO	102	BCL	OBD-CAD-CBD	-5.65	117.42	125.94
14	AJ	102	CRT	C37-C36-C35	-5.64	115.72	124.96
9	AZ	101	BCL	CAA-C2A-C3A	-5.61	99.26	113.32
9	AN	101	BCL	CAA-C2A-C1A	5.60	127.35	112.51
9	BB	101	BCL	OBD-CAD-CBD	-5.59	117.50	125.94
9	AU	102	BCL	O2A-CGA-CBA	5.58	128.97	111.90
9	AT	101	BCL	C4-C3-C5	-5.54	106.97	115.39
9	A0	102	BCL	CAA-C2A-C1A	5.52	127.15	112.51
9	AZ	101	BCL	CAA-C2A-C1A	5.51	127.13	112.51
9	B6	101	BCL	CAA-C2A-C1A	5.48	127.05	112.51
9	BS	102	BCL	O2A-CGA-CBA	5.48	128.67	111.90
14	BU	103	CRT	C15-C14-C12	-5.45	119.41	127.29
9	BB	101	BCL	CAA-C2A-C1A	5.45	126.96	112.51
14	A1	103	CRT	C5-C6-C7	-5.44	117.73	125.94
9	A8	101	BCL	C4-C3-C5	-5.43	107.15	115.39
9	AW	101	BCL	OBD-CAD-CBD	-5.41	117.77	125.94
14	AJ	102	CRT	C4-C5-C6	-5.41	116.11	124.96
9	A8	101	BCL	CAA-C2A-C1A	5.40	126.83	112.51
14	B7	102	CRT	C37-C36-C35	-5.37	116.17	124.96
9	A7	103	BCL	OBD-CAD-CBD	-5.36	117.85	125.94
9	BM	402	BCL	O2A-CGA-CBA	5.36	128.31	111.90
9	A3	103	BCL	C4-C3-C5	-5.36	107.25	115.39
14	A0	101	CRT	C10-C9-C7	-5.35	119.55	127.29
9	AY	102	BCL	O2A-CGA-CBA	5.34	128.24	111.90
9	B7	103	BCL	O2A-CGA-CBA	5.31	128.15	111.90
11	BL	304	UQ8	C46-C44-C45	5.28	127.92	114.62
9	AM	402	BCL	O2A-CGA-CBA	5.27	128.04	111.90
11	AL	304	UQ8	C46-C44-C45	5.27	127.88	114.62
9	BO	102	BCL	C5-C3-C2	5.26	131.17	121.06
9	A6	101	BCL	CAA-C2A-C1A	5.25	126.42	112.51
9	AJ	101	BCL	CAA-C2A-C1A	5.24	126.40	112.51
9	BZ	101	BCL	CAA-C2A-C1A	5.18	126.25	112.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	A8	101	BCL	CBA-CAA-C2A	5.17	126.59	113.95
9	BZ	101	BCL	CAA-C2A-C3A	-5.17	100.38	113.32
9	AR	101	BCL	CAA-C2A-C3A	-5.17	100.39	113.32
9	AZ	101	BCL	C5-C3-C2	5.16	130.98	121.06
9	A1	102	BCL	O2A-CGA-O1A	-5.15	110.02	123.48
9	AI	102	BCL	O2A-CGA-CBA	5.14	127.64	111.90
9	AY	102	BCL	OBD-CAD-CBD	-5.14	118.18	125.94
9	AN	101	BCL	CAA-C2A-C3A	-5.14	100.45	113.32
9	AK	102	BCL	OBD-CAD-CBD	-5.14	118.19	125.94
9	B9	102	BCL	O2A-CGA-CBA	5.07	127.43	111.90
9	AR	101	BCL	CAA-C2A-C1A	5.07	125.96	112.51
9	BD	102	BCL	C3D-C4D-CHA	5.07	116.29	108.16
9	AW	101	BCL	O2A-CGA-O1A	-5.06	110.26	123.48
9	AB	101	BCL	CAA-C2A-C3A	-5.05	100.67	113.32
9	BB	101	BCL	CAA-C2A-C3A	-5.05	100.67	113.32
9	AT	101	BCL	CAA-C2A-C1A	5.05	125.89	112.51
9	AL	301	BCL	O2A-CGA-CBA	5.03	127.31	111.90
9	A1	102	BCL	CGD-CBD-CHA	-5.03	101.99	113.65
9	B0	102	BCL	CAA-C2A-C1A	5.03	125.84	112.51
14	AA	102	CRT	C37-C36-C35	-5.02	116.75	124.96
9	BG	101	BCL	C5-C3-C2	5.01	130.69	121.06
9	BM	402	BCL	CGD-CBD-CHA	-5.00	102.05	113.65
9	AP	101	BCL	OBD-CAD-CBD	-5.00	118.40	125.94
9	AM	402	BCL	CGD-CBD-CHA	-4.99	102.08	113.65
9	AV	102	BCL	C1-C2-C3	4.97	134.85	126.23
9	BX	101	BCL	CAA-C2A-C1A	4.96	125.67	112.51
9	BW	102	BCL	O2D-CGD-CBD	4.96	121.36	111.34
9	B4	101	BCL	CAA-C2A-C3A	-4.95	100.92	113.32
14	BN	102	CRT	C4-C5-C6	-4.94	116.87	124.96
9	AM	401	BCL	O2D-CGD-CBD	4.94	121.32	111.34
9	A1	102	BCL	C1-O2A-CGA	-4.93	102.65	117.00
9	BO	102	BCL	O2A-CGA-CBA	4.93	126.98	111.90
9	BU	102	BCL	O2D-CGD-CBD	4.92	121.29	111.34
9	BI	102	BCL	O2A-CGA-CBA	4.90	126.89	111.90
9	A9	102	BCL	OBD-CAD-CBD	-4.89	118.55	125.94
9	AS	103	BCL	C5-C3-C2	4.89	130.46	121.06
9	BF	102	BCL	O2A-CGA-CBA	4.89	126.86	111.90
9	BW	102	BCL	O2A-CGA-CBA	4.89	126.86	111.90
9	A5	102	BCL	OBD-CAD-CBD	-4.88	118.58	125.94
9	BG	101	BCL	CAA-C2A-C3A	-4.87	101.12	113.32
9	A2	101	BCL	CAA-C2A-C1A	4.87	125.42	112.51
9	BW	102	BCL	OBD-CAD-CBD	-4.87	118.59	125.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	A3	104	BCL	OBD-CAD-CBD	-4.87	118.59	125.94
14	AG	102	CRT	C37-C36-C35	-4.87	116.99	124.96
9	AX	101	BCL	C5-C3-C2	4.86	130.41	121.06
9	B8	101	BCL	CBA-CAA-C2A	4.86	125.84	113.95
9	AK	102	BCL	C5-C3-C2	4.86	130.40	121.06
9	BL	301	BCL	O2A-CGA-CBA	4.84	126.72	111.90
9	AW	101	BCL	O2A-CGA-CBA	4.83	126.68	111.90
14	AN	102	CRT	C37-C36-C35	-4.83	117.06	124.96
14	BA	102	CRT	C37-C36-C35	-4.83	117.06	124.96
9	AG	101	BCL	C5-C3-C2	4.82	130.32	121.06
9	BM	401	BCL	OBD-CAD-CBD	-4.82	118.67	125.94
9	AN	101	BCL	OBD-CAD-CBD	-4.81	118.67	125.94
9	AK	102	BCL	O2A-CGA-CBA	4.81	126.62	111.90
9	AE	101	BCL	CBA-CAA-C2A	4.81	125.70	113.95
9	BY	102	BCL	C3D-C4D-CHA	4.81	115.87	108.16
9	A0	102	BCL	OBD-CAD-CBD	-4.81	118.68	125.94
9	BS	102	BCL	O2A-CGA-O1A	-4.80	110.94	123.48
9	AR	101	BCL	OBD-CAD-CBD	-4.80	118.70	125.94
9	AB	101	BCL	C5-C3-C2	4.80	130.28	121.06
9	AQ	102	BCL	C3D-C4D-CHA	4.79	115.85	108.16
9	AU	102	BCL	OBD-CAD-CBD	-4.79	118.71	125.94
9	BM	401	BCL	O2D-CGD-CBD	4.79	121.01	111.34
9	BU	102	BCL	C3D-C4D-CHA	4.79	115.84	108.16
9	AD	102	BCL	C5-C3-C2	4.78	130.25	121.06
9	BU	102	BCL	O2A-CGA-CBA	4.78	126.52	111.90
9	A8	101	BCL	OBD-CAD-CBD	-4.78	118.73	125.94
9	BW	102	BCL	CGD-CBD-CHA	-4.78	102.58	113.65
14	BN	102	CRT	C37-C36-C35	-4.77	117.15	124.96
9	A3	103	BCL	C5-C3-C2	4.77	130.23	121.06
9	BT	101	BCL	C3D-C4D-CHA	4.75	115.78	108.16
9	AW	101	BCL	C1-O2A-CGA	-4.75	103.17	117.00
9	A3	103	BCL	O2A-CGA-CBA	4.75	126.44	111.90
9	AY	102	BCL	C3D-C4D-CHA	4.75	115.78	108.16
9	AK	102	BCL	C3D-C4D-CHA	4.75	115.78	108.16
9	AP	101	BCL	CGD-CBD-CHA	-4.74	102.66	113.65
9	BT	101	BCL	CAA-C2A-C1A	4.73	125.06	112.51
9	A7	103	BCL	O2A-CGA-CBA	4.73	126.38	111.90
9	BP	101	BCL	OBD-CAD-CBD	-4.73	118.80	125.94
9	A3	104	BCL	O2A-CGA-O1A	-4.73	111.13	123.48
9	BW	102	BCL	C5-C3-C2	4.72	130.14	121.06
9	BB	101	BCL	C5-C3-C2	4.72	130.13	121.06
9	AI	102	BCL	O2A-CGA-O1A	-4.71	111.17	123.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	B1	102	BCL	O2D-CGD-CBD	4.71	120.86	111.34
9	AM	401	BCL	OBD-CAD-CBD	-4.71	118.83	125.94
9	BY	102	BCL	CGD-CBD-CHA	-4.70	102.75	113.65
9	A0	102	BCL	CAA-C2A-C3A	-4.70	101.54	113.32
9	AA	101	BCL	O2A-CGA-CBA	4.70	126.28	111.90
9	BQ	103	BCL	CGD-CBD-CHA	-4.70	102.76	113.65
9	B2	101	BCL	C3D-C4D-CHA	4.70	115.70	108.16
9	BQ	103	BCL	OBD-CAD-CBD	-4.69	118.86	125.94
9	AL	301	BCL	OBD-CAD-CBD	-4.69	118.86	125.94
9	A3	103	BCL	O2D-CGD-CBD	4.69	120.81	111.34
9	B9	102	BCL	CGD-CBD-CHA	-4.69	102.78	113.65
9	BX	101	BCL	CGD-CBD-CHA	-4.69	102.78	113.65
9	BM	402	BCL	OBD-CAD-CBD	-4.69	118.87	125.94
9	B9	102	BCL	O2A-CGA-O1A	-4.69	111.23	123.48
9	A6	101	BCL	C1-O2A-CGA	-4.68	103.37	117.00
9	A1	102	BCL	O2D-CGD-CBD	4.68	120.79	111.34
9	AU	102	BCL	O2A-CGA-O1A	-4.67	111.27	123.48
9	A7	103	BCL	O2A-CGA-O1A	-4.67	111.28	123.48
9	A3	104	BCL	C5-C3-C2	4.67	130.04	121.06
9	BU	102	BCL	C5-C3-C2	4.67	130.04	121.06
9	B3	102	BCL	C5-C3-C2	4.67	130.04	121.06
9	AP	101	BCL	C5-C3-C2	4.66	130.03	121.06
9	BF	102	BCL	OBD-CAD-CBD	-4.66	118.91	125.94
9	AI	102	BCL	CGD-CBD-CHA	-4.66	102.85	113.65
9	BQ	104	BCL	CAA-C2A-C3A	-4.65	101.67	113.32
9	BJ	101	BCL	CGD-CBD-CHA	-4.65	102.86	113.65
9	A8	101	BCL	C6-C5-C3	4.65	123.23	112.62
9	BN	101	BCL	C5-C3-C2	4.65	130.00	121.06
9	A8	101	BCL	O2A-CGA-CBA	4.65	126.13	111.90
9	AT	101	BCL	OBD-CAD-CBD	-4.65	118.92	125.94
9	BE	101	BCL	C3D-C4D-CHA	4.65	115.61	108.16
9	A5	102	BCL	O2A-CGA-CBA	4.64	126.11	111.90
14	BS	103	CRT	C4-C5-C6	-4.64	117.36	124.96
9	AV	102	BCL	C5-C3-C2	4.64	129.98	121.06
9	BX	101	BCL	O2D-CGD-CBD	4.64	120.70	111.34
9	A1	102	BCL	OBD-CAD-CBD	-4.63	118.95	125.94
9	AQ	102	BCL	OBD-CAD-CBD	-4.63	118.96	125.94
14	B5	103	CRT	C37-C36-C35	-4.62	117.39	124.96
14	BU	103	CRT	C20-C19-C17	-4.62	120.61	127.29
9	BM	402	BCL	O2A-CGA-O1A	-4.62	111.40	123.48
9	AJ	101	BCL	CAA-C2A-C3A	-4.62	101.76	113.32
9	B1	102	BCL	O2A-CGA-CBA	4.61	126.02	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AD	102	BCL	O2D-CGD-CBD	4.61	120.66	111.34
9	B7	103	BCL	O2A-CGA-O1A	-4.60	111.46	123.48
9	BA	101	BCL	C3D-C4D-CHA	4.60	115.54	108.16
9	B9	102	BCL	O2D-CGD-CBD	4.60	120.63	111.34
9	AS	103	BCL	O2A-CGA-CBA	4.60	125.97	111.90
9	AM	402	BCL	C5-C3-C2	4.59	129.89	121.06
13	AM	405	MQ8	C11-C3-C4	-4.59	113.27	118.53
9	BQ	104	BCL	OBD-CAD-CBD	-4.59	119.02	125.94
9	BG	101	BCL	OBD-CAD-CBD	-4.59	119.02	125.94
9	BY	102	BCL	O2D-CGD-CBD	4.58	120.60	111.34
9	BI	102	BCL	C3D-C4D-CHA	4.58	115.51	108.16
9	BP	101	BCL	C3D-C4D-CHA	4.58	115.51	108.16
9	BJ	101	BCL	C3D-C4D-CHA	4.58	115.51	108.16
9	A8	101	BCL	O2A-CGA-O1A	-4.58	111.51	123.48
9	A9	102	BCL	CAA-C2A-C1A	4.58	124.65	112.51
9	BD	102	BCL	C5-C3-C2	4.58	129.86	121.06
9	A9	102	BCL	O2A-CGA-O1A	-4.58	111.52	123.48
14	AX	102	CRT	C37-C36-C35	-4.57	117.47	124.96
9	B3	102	BCL	O2D-CGD-CBD	4.57	120.57	111.34
9	BY	102	BCL	O2A-CGA-CBA	4.57	125.89	111.90
9	AW	101	BCL	CGD-CBD-CHA	-4.57	103.06	113.65
9	A3	103	BCL	OBD-CAD-CBD	-4.57	119.05	125.94
14	B2	102	CRT	C37-C36-C35	-4.57	117.49	124.96
9	A5	102	BCL	C3D-C4D-CHA	4.57	115.49	108.16
9	AL	301	BCL	O2A-CGA-O1A	-4.57	111.55	123.48
9	AX	101	BCL	OBD-CAD-CBD	-4.56	119.05	125.94
9	AF	102	BCL	OBD-CAD-CBD	-4.56	119.05	125.94
9	A6	101	BCL	OBD-CAD-CBD	-4.56	119.05	125.94
9	BP	101	BCL	CAA-C2A-C3A	-4.56	101.91	113.32
9	AY	102	BCL	O2A-CGA-O1A	-4.56	111.57	123.48
9	AL	303	BCL	C3D-C4D-CHA	4.56	115.47	108.16
9	BI	102	BCL	O2D-CGD-CBD	4.56	120.55	111.34
9	AY	102	BCL	C5-C3-C2	4.55	129.82	121.06
9	AO	102	BCL	C3D-C4D-CHA	4.55	115.47	108.16
9	A0	102	BCL	O2A-CGA-O1A	-4.55	111.58	123.48
9	A3	104	BCL	CAA-C2A-C3A	-4.55	101.92	113.32
9	A3	103	BCL	C3D-C4D-CHA	4.55	115.46	108.16
9	A3	104	BCL	O2A-CGA-CBA	4.54	125.81	111.90
9	BW	102	BCL	O2A-CGA-O1A	-4.54	111.61	123.48
9	AD	102	BCL	OBD-CAD-CBD	-4.54	119.09	125.94
14	A1	103	CRT	C37-C36-C35	-4.54	117.54	124.96
9	B1	102	BCL	OBD-CAD-CBD	-4.54	119.09	125.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	A7	103	BCL	C3D-C4D-CHA	4.53	115.43	108.16
9	BS	102	BCL	C3D-C4D-CHA	4.53	115.43	108.16
9	BQ	104	BCL	C3D-C4D-CHA	4.53	115.43	108.16
9	B7	103	BCL	O2D-CGD-CBD	4.53	120.49	111.34
9	A9	102	BCL	C3D-C4D-CHA	4.52	115.42	108.16
9	BO	102	BCL	O2A-CGA-O1A	-4.53	111.65	123.48
9	B3	102	BCL	OBD-CAD-CBD	-4.52	119.11	125.94
9	B1	102	BCL	C5-C3-C2	4.52	129.75	121.06
9	AM	402	BCL	O2A-CGA-O1A	-4.52	111.66	123.48
9	BP	101	BCL	CAA-C2A-C1A	4.52	124.49	112.51
9	BB	101	BCL	CGD-CBD-CHA	-4.52	103.17	113.65
9	BK	102	BCL	C3D-C4D-CHA	4.52	115.41	108.16
9	AM	402	BCL	OBD-CAD-CBD	-4.52	119.12	125.94
14	BU	103	CRT	C37-C36-C35	-4.51	117.58	124.96
9	BL	301	BCL	C5-C3-C2	4.50	129.72	121.06
9	AU	102	BCL	O2D-CGD-CBD	4.51	120.44	111.34
9	A5	102	BCL	O2A-CGA-O1A	-4.50	111.71	123.48
9	A5	102	BCL	CGD-CBD-CHA	-4.50	103.21	113.65
9	BL	303	BCL	OBD-CAD-CBD	-4.50	119.15	125.94
9	BI	102	BCL	OBD-CAD-CBD	-4.50	119.15	125.94
9	B6	101	BCL	O2D-CGD-CBD	4.49	120.41	111.34
9	AI	102	BCL	O2D-CGD-CBD	4.49	120.40	111.34
9	AV	102	BCL	OBD-CAD-CBD	-4.48	119.17	125.94
9	AV	102	BCL	C1-O2A-CGA	4.48	130.04	117.00
9	BV	101	BCL	CAA-C2A-C1A	4.48	124.38	112.51
9	BA	101	BCL	O2A-CGA-CBA	4.47	125.59	111.90
14	AX	102	CRT	C20-C19-C17	-4.47	120.83	127.29
14	A5	103	CRT	C37-C36-C35	-4.47	117.64	124.96
9	BF	102	BCL	C5-C3-C2	4.47	129.65	121.06
9	AW	101	BCL	C3D-C4D-CHA	4.47	115.33	108.16
14	A7	102	CRT	C4-C5-C6	-4.46	117.66	124.96
9	BQ	103	BCL	O2A-CGA-CBA	4.46	125.56	111.90
9	B8	101	BCL	CAA-C2A-C3A	-4.46	102.15	113.32
15	AM	407	PEF	C2-O2-C10	4.46	125.92	117.68
9	BK	102	BCL	O2D-CGD-CBD	4.46	120.35	111.34
9	BZ	101	BCL	CGD-CBD-CHA	-4.46	103.31	113.65
9	B4	101	BCL	CGD-CBD-CHA	-4.46	103.31	113.65
9	B2	101	BCL	OBD-CAD-CBD	-4.46	119.21	125.94
9	AV	102	BCL	C3D-C4D-CHA	4.46	115.31	108.16
15	AH	301	PEF	C2-O2-C10	4.46	125.91	117.68
9	B8	101	BCL	O2D-CGD-CBD	4.46	120.34	111.34
9	AL	303	BCL	OBD-CAD-CBD	-4.45	119.22	125.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A1	103	CRT	C8-C7-C9	-4.45	116.58	122.92
9	A6	101	BCL	CAA-C2A-C3A	-4.45	102.19	113.32
11	AL	304	UQ8	C35-C34-C36	4.45	122.14	115.39
9	AB	101	BCL	OBD-CAD-CBD	-4.44	119.23	125.94
9	BK	102	BCL	C5-C3-C2	4.44	129.60	121.06
9	BL	301	BCL	OBD-CAD-CBD	-4.44	119.23	125.94
9	B7	103	BCL	OBD-CAD-CBD	-4.44	119.24	125.94
9	A0	102	BCL	O2A-CGA-CBA	4.44	125.49	111.90
9	BS	102	BCL	C5-C3-C2	4.44	129.59	121.06
14	AR	102	CRT	C5-C6-C7	-4.44	119.25	125.94
9	BK	102	BCL	CGD-CBD-CHA	-4.44	103.36	113.65
15	BM	407	PEF	C2-O2-C10	4.44	125.88	117.68
9	AI	102	BCL	OBD-CAD-CBD	-4.44	119.24	125.94
9	A7	103	BCL	CGD-CBD-CHA	-4.43	103.37	113.65
9	BO	102	BCL	OBD-CAD-CBD	-4.43	119.25	125.94
9	AM	402	BCL	C3D-C4D-CHA	4.43	115.27	108.16
9	A3	103	BCL	O2A-CGA-O1A	-4.43	111.90	123.48
9	BQ	103	BCL	C3D-C4D-CHA	4.43	115.27	108.16
9	B6	101	BCL	C5-C3-C2	4.43	129.58	121.06
9	A2	101	BCL	C5-C3-C2	4.43	129.57	121.06
9	BM	402	BCL	C3D-C4D-CHA	4.43	115.26	108.16
9	AW	101	BCL	C5-C3-C2	4.43	129.57	121.06
9	A9	102	BCL	CGD-CBD-CHA	-4.43	103.39	113.65
9	BQ	103	BCL	C5-C3-C2	4.42	129.57	121.06
9	BF	102	BCL	C3D-C4D-CHA	4.42	115.26	108.16
9	BD	102	BCL	OBD-CAD-CBD	-4.42	119.26	125.94
9	AK	102	BCL	O2A-CGA-O1A	-4.42	111.92	123.48
15	AS	101	PEF	O3-C30-C31	4.42	125.43	111.90
9	AO	102	BCL	C5-C3-C2	4.42	129.56	121.06
9	AS	103	BCL	O2A-CGA-O1A	-4.42	111.93	123.48
9	A2	101	BCL	OBD-CAD-CBD	-4.42	119.28	125.94
9	BX	101	BCL	C5-C3-C2	4.42	129.55	121.06
9	BL	303	BCL	O2A-CGA-CBA	4.41	125.40	111.90
15	AM	409	PEF	O3-C30-C31	4.41	125.40	111.90
9	BK	102	BCL	O2A-CGA-CBA	4.41	125.40	111.90
9	AQ	102	BCL	CGD-CBD-CHA	-4.41	103.43	113.65
9	BJ	101	BCL	OBD-CAD-CBD	-4.41	119.29	125.94
9	BI	102	BCL	O2A-CGA-O1A	-4.41	111.97	123.48
9	AZ	101	BCL	C3D-C4D-CHA	4.41	115.23	108.16
9	BB	101	BCL	C3D-C4D-CHA	4.40	115.23	108.16
9	B1	102	BCL	C3D-C4D-CHA	4.40	115.22	108.16
9	B7	103	BCL	CGD-CBD-CHA	-4.40	103.45	113.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AA	101	BCL	OBD-CAD-CBD	-4.40	119.30	125.94
9	B5	102	BCL	OBD-CAD-CBD	-4.40	119.30	125.94
9	AD	102	BCL	C3D-C4D-CHA	4.40	115.22	108.16
15	BQ	101	PEF	O3-C30-C31	4.40	125.36	111.90
9	AQ	102	BCL	O2A-CGA-CBA	4.40	125.35	111.90
9	AM	401	BCL	C3D-C4D-CHA	4.39	115.21	108.16
9	BG	101	BCL	C3D-C4D-CHA	4.39	115.21	108.16
9	B4	101	BCL	OBD-CAD-CBD	-4.39	119.31	125.94
9	A6	101	BCL	O2A-CGA-O1A	-4.39	112.00	123.48
9	BL	301	BCL	O2A-CGA-O1A	-4.39	112.00	123.48
9	AU	102	BCL	CGD-CBD-CHA	-4.39	103.47	113.65
9	AM	401	BCL	O2A-CGA-CBA	4.39	125.34	111.90
9	B9	102	BCL	C3D-C4D-CHA	4.39	115.20	108.16
9	A3	104	BCL	C6-C5-C3	4.38	122.62	112.62
9	AW	101	BCL	CBA-CAA-C2A	4.38	124.67	113.95
9	A1	102	BCL	C3D-C4D-CHA	4.38	115.19	108.16
9	AG	101	BCL	C3D-C4D-CHA	4.38	115.19	108.16
9	BJ	101	BCL	C5-C3-C2	4.38	129.48	121.06
9	BD	102	BCL	O2A-CGA-CBA	4.38	125.30	111.90
9	AA	101	BCL	C3D-C4D-CHA	4.38	115.18	108.16
9	BL	303	BCL	C3D-C4D-CHA	4.38	115.18	108.16
9	BN	101	BCL	O2D-CGD-CBD	4.37	120.18	111.34
14	A1	103	CRT	C6-C7-C9	4.37	125.71	118.98
9	B2	101	BCL	CAA-C2A-C1A	4.37	124.09	112.51
9	B2	101	BCL	C5-C3-C2	4.37	129.46	121.06
9	BO	102	BCL	C6-C5-C3	4.37	122.59	112.62
9	AF	102	BCL	C5-C3-C2	4.36	129.45	121.06
9	B9	102	BCL	OBD-CAD-CBD	-4.36	119.36	125.94
9	BP	101	BCL	C5-C3-C2	4.36	129.44	121.06
9	BF	102	BCL	O2A-CGA-O1A	-4.36	112.09	123.48
9	BO	102	BCL	O2D-CGD-CBD	4.36	120.15	111.34
9	AE	101	BCL	OBD-CAD-CBD	-4.36	119.36	125.94
9	BU	102	BCL	O2A-CGA-O1A	-4.36	112.09	123.48
9	AJ	101	BCL	C3D-C4D-CHA	4.36	115.15	108.16
9	AI	102	BCL	C3D-C4D-CHA	4.35	115.14	108.16
9	BM	401	BCL	C3D-C4D-CHA	4.35	115.14	108.16
9	BS	102	BCL	CGD-CBD-CHA	-4.35	103.57	113.65
9	BN	101	BCL	C3D-C4D-CHA	4.35	115.14	108.16
14	B0	101	CRT	C4-C5-C6	-4.35	117.84	124.96
9	BE	101	BCL	OBD-CAD-CBD	-4.34	119.38	125.94
9	B6	101	BCL	OBD-CAD-CBD	-4.34	119.38	125.94
9	BY	102	BCL	C5-C3-C2	4.34	129.41	121.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	B3	102	BCL	C3D-C4D-CHA	4.34	115.13	108.16
9	BQ	103	BCL	O2D-CGD-CBD	4.34	120.10	111.34
9	BI	102	BCL	C5-C3-C2	4.34	129.40	121.06
9	A9	102	BCL	O2A-CGA-CBA	4.34	125.17	111.90
9	AW	101	BCL	CAA-C2A-C1A	4.34	124.00	112.51
9	AR	101	BCL	C5-C3-C2	4.33	129.39	121.06
9	AE	101	BCL	C6-C5-C3	4.33	122.50	112.62
9	AS	103	BCL	CMB-C2B-C1B	-4.33	121.81	128.46
14	BS	103	CRT	C37-C36-C35	-4.33	117.87	124.96
9	AA	101	BCL	O2A-CGA-O1A	-4.33	112.17	123.48
9	AP	101	BCL	C3D-C4D-CHA	4.33	115.10	108.16
9	B7	103	BCL	C3D-C4D-CHA	4.32	115.10	108.16
9	AD	102	BCL	O2A-CGA-CBA	4.32	125.13	111.90
9	AG	101	BCL	CAA-C2A-C3A	-4.32	102.50	113.32
9	AG	101	BCL	OBD-CAD-CBD	-4.32	119.42	125.94
9	B1	102	BCL	O2A-CGA-O1A	-4.32	112.19	123.48
9	AQ	102	BCL	C5-C3-C2	4.32	129.36	121.06
9	A6	101	BCL	O2A-CGA-CBA	4.32	125.11	111.90
9	BM	401	BCL	O2A-CGA-CBA	4.31	125.11	111.90
9	BZ	101	BCL	C5-C3-C2	4.31	129.35	121.06
9	BK	102	BCL	OBD-CAD-CBD	-4.31	119.44	125.94
9	AW	101	BCL	O2D-CGD-CBD	4.31	120.04	111.34
9	B6	101	BCL	C3D-C4D-CHA	4.31	115.07	108.16
9	B0	102	BCL	OBD-CAD-CBD	-4.31	119.44	125.94
9	A7	103	BCL	C5-C3-C2	4.30	129.34	121.06
9	BY	102	BCL	OBD-CAD-CBD	-4.30	119.45	125.94
9	BZ	101	BCL	C3D-C4D-CHA	4.30	115.06	108.16
9	B8	101	BCL	OBD-CAD-CBD	-4.30	119.44	125.94
9	AX	101	BCL	C3D-C4D-CHA	4.30	115.06	108.16
9	B5	102	BCL	O2A-CGA-CBA	4.29	125.04	111.90
9	BL	303	BCL	O2D-CGD-CBD	4.29	120.01	111.34
9	AJ	101	BCL	C5-C3-C2	4.28	129.29	121.06
9	BA	101	BCL	OBD-CAD-CBD	-4.28	119.48	125.94
9	B0	102	BCL	C3D-C4D-CHA	4.28	115.03	108.16
9	BL	303	BCL	CAA-C2A-C3A	-4.28	102.61	113.32
9	AL	303	BCL	O2A-CGA-CBA	4.28	125.00	111.90
9	B9	102	BCL	C5-C3-C2	4.28	129.29	121.06
9	BJ	101	BCL	CAA-C2A-C3A	-4.28	102.61	113.32
9	AJ	101	BCL	OBD-CAD-CBD	-4.28	119.48	125.94
9	AE	101	BCL	C3D-C4D-CHA	4.28	115.02	108.16
9	A5	102	BCL	O2D-CGD-CBD	4.28	119.98	111.34
9	BL	301	BCL	C3D-C4D-CHA	4.28	115.02	108.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BA	101	BCL	O2D-CGD-CBD	4.27	119.97	111.34
9	BS	102	BCL	O2D-CGD-CBD	4.27	119.96	111.34
9	AB	101	BCL	C3D-C4D-CHA	4.27	115.01	108.16
9	AX	101	BCL	CAA-C2A-C3A	-4.26	102.64	113.32
9	BT	101	BCL	OBD-CAD-CBD	-4.26	119.50	125.94
9	AS	103	BCL	OBD-CAD-CBD	-4.26	119.51	125.94
9	AF	102	BCL	C3D-C4D-CHA	4.26	115.00	108.16
9	B5	102	BCL	C5-C3-C2	4.26	129.24	121.06
9	BN	101	BCL	CAA-C2A-C1A	4.25	123.79	112.51
9	BW	102	BCL	C3D-C4D-CHA	4.25	114.99	108.16
9	AL	301	BCL	C5-C3-C2	4.25	129.24	121.06
9	B6	101	BCL	CAA-C2A-C3A	-4.25	102.67	113.32
9	BX	101	BCL	C3D-C4D-CHA	4.25	114.98	108.16
9	BK	102	BCL	O2A-CGA-O1A	-4.25	112.38	123.48
9	AU	102	BCL	C3D-C4D-CHA	4.25	114.97	108.16
9	AL	303	BCL	O2D-CGD-CBD	4.25	119.92	111.34
9	AL	301	BCL	C3D-C4D-CHA	4.25	114.97	108.16
9	AR	101	BCL	C3D-C4D-CHA	4.25	114.97	108.16
9	BN	101	BCL	OBD-CAD-CBD	-4.24	119.53	125.94
9	BQ	103	BCL	O2A-CGA-O1A	-4.24	112.39	123.48
14	AX	102	CRT	C4-C5-C6	-4.24	118.02	124.96
9	AO	102	BCL	O2A-CGA-CBA	4.24	124.88	111.90
9	B8	101	BCL	C3D-C4D-CHA	4.24	114.97	108.16
15	AS	101	PEF	O3-C3-C2	4.24	119.94	108.80
15	BQ	101	PEF	O3-C3-C2	4.24	119.93	108.80
9	AM	402	BCL	O2D-CGD-CBD	4.23	119.89	111.34
9	B5	102	BCL	O2D-CGD-CBD	4.23	119.89	111.34
9	AI	102	BCL	C5-C3-C2	4.23	129.19	121.06
9	A6	101	BCL	C3D-C4D-CHA	4.22	114.94	108.16
9	A2	101	BCL	C3D-C4D-CHA	4.22	114.94	108.16
15	AH	301	PEF	O3-C3-C2	4.22	119.89	108.80
9	AK	102	BCL	O2D-CGD-CBD	4.22	119.86	111.34
9	AY	102	BCL	CGD-CBD-CHA	-4.21	103.89	113.65
9	B4	101	BCL	C3D-C4D-CHA	4.21	114.92	108.16
9	A3	103	BCL	CGD-CBD-CHA	-4.21	103.89	113.65
9	BT	101	BCL	CGD-CBD-CHA	-4.21	103.90	113.65
15	AM	407	PEF	O3-C3-C2	4.21	119.86	108.80
9	A8	101	BCL	C3D-C4D-CHA	4.21	114.91	108.16
9	B5	102	BCL	C3D-C4D-CHA	4.21	114.91	108.16
9	A6	101	BCL	C5-C3-C2	4.20	129.14	121.06
9	BB	101	BCL	O2D-CGD-CBD	4.20	119.83	111.34
9	BN	101	BCL	CGD-CBD-CHA	-4.20	103.92	113.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AQ	102	BCL	O2D-CGD-CBD	4.20	119.82	111.34
9	A2	101	BCL	CAA-C2A-C3A	-4.20	102.81	113.32
9	AM	401	BCL	O2A-CGA-O1A	-4.20	112.51	123.48
15	BM	407	PEF	O3-C3-C2	4.20	119.83	108.80
9	A0	102	BCL	C3D-C4D-CHA	4.20	114.89	108.16
9	A2	101	BCL	O2A-CGA-O1A	-4.19	112.52	123.48
9	BF	102	BCL	C6-C5-C3	4.19	122.17	112.62
9	BD	102	BCL	O2A-CGA-O1A	-4.19	112.54	123.48
9	BL	303	BCL	O2A-CGA-O1A	-4.19	112.53	123.48
9	AM	401	BCL	CGD-CBD-CHA	-4.18	103.96	113.65
9	AQ	102	BCL	O2A-CGA-O1A	-4.18	112.56	123.48
11	AL	304	UQ8	C42-C41-C39	4.18	126.55	112.75
9	BV	101	BCL	OBD-CAD-CBD	-4.18	119.64	125.94
9	BM	402	BCL	O2D-CGD-CBD	4.17	119.76	111.34
9	AO	102	BCL	O2D-CGD-CBD	4.17	119.76	111.34
9	AZ	101	BCL	O2A-CGA-CBA	4.17	124.66	111.90
9	B3	102	BCL	CGD-CBD-CHA	-4.17	103.99	113.65
9	AO	102	BCL	O2A-CGA-O1A	-4.16	112.60	123.48
14	A2	102	CRT	C4-C5-C6	-4.16	118.15	124.96
9	BA	101	BCL	O2A-CGA-O1A	-4.16	112.61	123.48
9	AL	303	BCL	CGD-CBD-CHA	-4.16	104.00	113.65
9	BN	101	BCL	CAA-C2A-C3A	-4.16	102.91	113.32
9	AE	101	BCL	C5-C3-C2	4.16	129.06	121.06
9	AT	101	BCL	C3D-C4D-CHA	4.15	114.82	108.16
9	BM	401	BCL	O2A-CGA-O1A	-4.15	112.65	123.48
9	AT	101	BCL	O2D-CGD-CBD	4.14	119.70	111.34
9	BG	101	BCL	O2D-CGD-CBD	4.14	119.70	111.34
14	BO	103	CRT	C37-C36-C35	-4.14	118.19	124.96
9	AD	102	BCL	O2A-CGA-O1A	-4.14	112.67	123.48
9	A1	102	BCL	C5-C3-C2	4.14	129.01	121.06
14	A2	102	CRT	C37-C36-C35	-4.14	118.19	124.96
9	AL	303	BCL	O2A-CGA-O1A	-4.13	112.68	123.48
9	A5	102	BCL	C5-C3-C2	4.13	129.01	121.06
9	BF	102	BCL	O2D-CGD-CBD	4.13	119.69	111.34
14	AW	102	CRT	C37-C36-C35	-4.13	118.21	124.96
9	B0	102	BCL	CAA-C2A-C3A	-4.12	103.00	113.32
9	AL	303	BCL	C5-C3-C2	4.12	128.97	121.06
14	AP	102	CRT	C37-C36-C35	-4.11	118.23	124.96
9	AN	101	BCL	C3D-C4D-CHA	4.11	114.76	108.16
9	AL	303	BCL	CAA-C2A-C3A	-4.10	103.04	113.32
9	BI	102	BCL	CGD-CBD-CHA	-4.10	104.14	113.65
9	BP	101	BCL	CMB-C2B-C1B	-4.09	122.17	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BY	102	BCL	O2A-CGA-O1A	-4.09	112.78	123.48
9	AZ	101	BCL	OBD-CAD-CBD	-4.09	119.77	125.94
9	AU	102	BCL	C11-C10-C8	-4.08	102.74	115.44
14	BG	102	CRT	C4-C5-C6	-4.08	118.28	124.96
9	AU	102	BCL	CAA-C2A-C1A	4.08	123.31	112.51
9	BV	101	BCL	C5-C3-C2	4.07	128.89	121.06
9	BQ	104	BCL	C5-C3-C2	4.06	128.87	121.06
9	BA	101	BCL	C5-C3-C2	4.06	128.86	121.06
9	A3	104	BCL	C3D-C4D-CHA	4.05	114.66	108.16
9	BO	102	BCL	CGD-CBD-CHA	-4.05	104.26	113.65
9	BL	303	BCL	C5-C3-C2	4.05	128.84	121.06
9	AT	101	BCL	C5-C3-C2	4.05	128.84	121.06
9	AU	102	BCL	C5-C3-C2	4.04	128.83	121.06
9	B4	101	BCL	O2D-CGD-CBD	4.04	119.50	111.34
9	B4	101	BCL	C5-C3-C2	4.04	128.82	121.06
9	B3	102	BCL	O2A-CGA-CBA	4.04	124.25	111.90
9	BO	102	BCL	C3D-C4D-CHA	4.03	114.63	108.16
9	AS	103	BCL	O2D-CGD-CBD	4.03	119.48	111.34
9	BT	101	BCL	C5-C3-C2	4.02	128.79	121.06
9	AM	401	BCL	C5-C3-C2	4.02	128.79	121.06
9	BM	401	BCL	CAA-C2A-C3A	-4.02	103.26	113.32
9	AN	101	BCL	O2D-CGD-CBD	4.02	119.46	111.34
14	AS	104	CRT	C21-C22-C23	-4.01	121.49	127.29
9	A0	102	BCL	C1-O2A-CGA	4.01	128.66	117.00
9	BS	102	BCL	OBD-CAD-CBD	-4.01	119.89	125.94
9	BV	101	BCL	C3D-C4D-CHA	4.01	114.59	108.16
14	B1	103	CRT	C4-C5-C6	-4.00	118.41	124.96
9	BU	102	BCL	CGD-CBD-CHA	-4.00	104.37	113.65
9	BU	102	BCL	OBD-CAD-CBD	-4.00	119.90	125.94
9	BZ	101	BCL	OBD-CAD-CBD	-4.00	119.91	125.94
9	AZ	101	BCL	O2A-CGA-O1A	-4.00	113.04	123.48
9	AF	102	BCL	O2D-CGD-CBD	3.99	119.40	111.34
9	AK	102	BCL	CGD-CBD-CHA	-3.98	104.42	113.65
11	BL	304	UQ8	C42-C41-C39	3.98	125.90	112.75
9	BF	102	BCL	CGD-CBD-CHA	-3.97	104.44	113.65
14	BF	103	CRT	C3-C1-C4	-3.96	105.71	110.81
9	BM	401	BCL	C5-C3-C2	3.96	128.68	121.06
9	B8	101	BCL	C1-O2A-CGA	3.96	128.51	117.00
9	BG	101	BCL	C6-C5-C3	3.96	121.65	112.62
14	B2	102	CRT	C1-C4-C5	3.96	123.97	113.41
9	B0	102	BCL	C5-C3-C2	3.95	128.65	121.06
9	A0	102	BCL	C5-C3-C2	3.95	128.65	121.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	A0	101	CRT	C3-C1-C4	-3.94	105.74	110.81
9	AX	101	BCL	O2A-CGA-O1A	-3.94	113.19	123.48
9	A5	102	BCL	CAA-C2A-C1A	3.93	122.92	112.51
9	A6	101	BCL	O2A-C1-C2	3.92	117.11	108.12
14	A0	101	CRT	C26-C27-C28	-3.92	121.62	127.29
9	A6	101	BCL	CBA-CAA-C2A	3.92	123.52	113.95
9	BM	401	BCL	CGD-CBD-CHA	-3.92	104.57	113.65
14	A2	102	CRT	C1M-O1-C1	3.91	136.58	115.49
9	BW	102	BCL	CMB-C2B-C1B	-3.91	122.46	128.46
9	B2	101	BCL	O2D-CGD-CBD	3.91	119.23	111.34
9	BJ	101	BCL	C6-C5-C3	3.89	121.50	112.62
9	B7	103	BCL	C5-C3-C2	3.89	128.53	121.06
9	AX	101	BCL	O2A-CGA-CBA	3.88	123.79	111.90
9	A7	103	BCL	CAA-C2A-C1A	3.88	122.79	112.51
9	AN	101	BCL	C5-C3-C2	3.88	128.51	121.06
9	AV	102	BCL	O2D-CGD-CBD	3.87	119.16	111.34
9	BM	401	BCL	CMB-C2B-C1B	-3.86	122.53	128.46
9	AP	101	BCL	O2D-CGD-CBD	3.86	119.14	111.34
9	AP	101	BCL	CAA-C2A-C3A	-3.86	103.65	113.32
11	AL	304	UQ8	C20-C19-C21	3.86	121.25	115.39
14	AT	102	CRT	C37-C36-C35	-3.85	118.66	124.96
9	BQ	104	BCL	CAA-C2A-C1A	3.85	122.72	112.51
9	B5	102	BCL	CGD-CBD-CHA	-3.84	104.75	113.65
9	BI	102	BCL	C6-C5-C3	3.84	121.38	112.62
9	B5	102	BCL	O2A-CGA-O1A	-3.84	113.44	123.48
9	AO	102	BCL	CGD-CBD-CHA	-3.84	104.76	113.65
14	A1	103	CRT	C14-C15-C16	-3.83	110.36	123.23
14	AR	102	CRT	C37-C36-C35	-3.83	118.69	124.96
9	BG	101	BCL	CGD-CBD-CHA	-3.83	104.77	113.65
9	A1	102	BCL	CAA-C2A-C1A	3.83	122.66	112.51
9	AM	401	BCL	CAA-C2A-C3A	-3.83	103.74	113.32
9	A6	101	BCL	CGD-CBD-CHA	-3.82	104.80	113.65
14	AG	102	CRT	C4-C5-C6	-3.82	118.72	124.96
9	BD	102	BCL	CMB-C2B-C1B	-3.81	122.61	128.46
9	B2	101	BCL	CMB-C2B-C1B	-3.81	122.61	128.46
9	BT	101	BCL	O2D-CGD-CBD	3.81	119.03	111.34
9	B8	101	BCL	C6-C5-C3	3.80	121.30	112.62
15	AM	409	PEF	O3-C30-O5	-3.80	113.54	123.48
9	BS	102	BCL	CBA-CAA-C2A	3.80	123.24	113.95
9	AD	102	BCL	CGD-CBD-CHA	-3.80	104.84	113.65
14	AB	102	CRT	C21-C20-C19	-3.80	115.08	123.45
9	BT	101	BCL	CAA-C2A-C3A	-3.79	103.83	113.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	AS	101	PEF	O3-C30-O5	-3.79	113.58	123.48
15	BQ	101	PEF	O3-C30-O5	-3.79	113.58	123.48
9	AE	101	BCL	CGD-CBD-CHA	-3.79	104.87	113.65
9	AM	401	BCL	CMB-C2B-C1B	-3.79	122.64	128.46
9	BS	102	BCL	CMB-C2B-C1B	-3.78	122.65	128.46
14	AS	104	CRT	C10-C9-C7	-3.78	121.83	127.29
9	BQ	104	BCL	CMB-C2B-C1B	-3.78	122.66	128.46
9	AN	101	BCL	CGD-CBD-CHA	-3.78	104.89	113.65
9	B2	101	BCL	CAA-C2A-C3A	-3.78	103.87	113.32
9	BE	101	BCL	C5-C3-C2	3.77	128.31	121.06
14	A1	103	CRT	C21-C22-C23	-3.77	121.84	127.29
9	B1	102	BCL	CGD-CBD-CHA	-3.77	104.92	113.65
9	BD	102	BCL	O2D-CGD-CBD	3.76	118.94	111.34
9	BM	402	BCL	CMB-C2B-C1B	-3.76	122.68	128.46
9	AT	101	BCL	CGD-CBD-CHA	-3.76	104.94	113.65
14	BO	103	CRT	C21-C22-C23	-3.76	121.86	127.29
14	A0	101	CRT	C31-C32-C33	-3.76	121.86	127.29
14	AM	406	CRT	C31-C32-C33	-3.74	121.88	127.29
9	AS	103	BCL	C2B-C1B-NB	-3.75	107.00	109.50
9	A3	103	BCL	CAA-C2A-C1A	3.74	122.43	112.51
9	B6	101	BCL	CGD-CBD-CHA	-3.74	104.98	113.65
9	AS	103	BCL	CGD-CBD-CHA	-3.73	104.99	113.65
9	AM	402	BCL	CMB-C2B-C1B	-3.73	122.73	128.46
14	AS	104	CRT	C35-C33-C32	-3.73	113.23	118.98
9	A2	101	BCL	O2A-CGA-CBA	3.73	123.32	111.90
9	AG	101	BCL	O2D-CGD-CBD	3.73	118.87	111.34
14	BO	103	CRT	C10-C9-C7	-3.72	121.91	127.29
9	AT	101	BCL	CMB-C2B-C1B	-3.72	122.74	128.46
9	AG	101	BCL	C6-C5-C3	3.72	121.12	112.62
9	A9	102	BCL	O2D-CGD-CBD	3.72	118.86	111.34
9	AY	102	BCL	CAA-C2A-C1A	3.72	122.37	112.51
9	BL	303	BCL	CGD-CBD-CHA	-3.72	105.02	113.65
9	AD	102	BCL	CMB-C2B-C1B	-3.72	122.75	128.46
9	AS	103	BCL	C3D-C4D-CHA	3.72	114.12	108.16
9	A9	102	BCL	C5-C3-C2	3.72	128.20	121.06
9	AM	402	BCL	C6-C5-C3	3.71	121.09	112.62
9	BM	402	BCL	C5-C3-C2	3.71	128.20	121.06
14	B1	103	CRT	C40-C38-C37	-3.71	106.03	110.81
14	AB	102	CRT	C21-C22-C23	-3.71	121.93	127.29
10	AL	302	BPH	C1-C2-C3	3.71	132.66	126.23
9	BN	101	BCL	CMB-C2B-C1B	-3.71	122.77	128.46
9	AY	102	BCL	O2D-CGD-CBD	3.71	118.83	111.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	B7	103	BCL	C6-C5-C3	3.70	121.07	112.62
14	BM	406	CRT	C37-C36-C35	-3.70	118.91	124.96
9	B6	101	BCL	CMB-C2B-C1B	-3.69	122.78	128.46
9	BE	101	BCL	CAA-C2A-C1A	3.69	122.30	112.51
9	B4	101	BCL	C6-C5-C3	3.69	121.04	112.62
9	BP	101	BCL	O2D-CGD-CBD	3.69	118.79	111.34
14	A0	101	CRT	C21-C22-C23	-3.69	121.96	127.29
9	AR	101	BCL	O2A-CGA-CBA	3.69	123.18	111.90
9	BP	101	BCL	CGD-CBD-CHA	-3.68	105.12	113.65
9	AB	101	BCL	C1-O2A-CGA	3.67	127.68	117.00
9	AI	102	BCL	C6-C5-C3	3.66	120.97	112.62
9	BB	101	BCL	C6-C5-C3	3.66	120.97	112.62
9	A3	104	BCL	CGD-CBD-CHA	-3.66	105.17	113.65
9	BV	101	BCL	CAA-C2A-C3A	-3.66	104.17	113.32
9	BJ	101	BCL	O2D-CGD-CBD	3.65	118.72	111.34
9	AJ	101	BCL	CMB-C2B-C1B	-3.65	122.85	128.46
9	AG	101	BCL	CMB-C2B-C1B	-3.65	122.85	128.46
14	AP	102	CRT	C1M-O1-C1	3.65	135.17	115.49
9	BM	402	BCL	O2A-C1-C2	3.65	116.48	108.12
14	BB	102	CRT	C21-C22-C23	-3.65	122.02	127.29
9	B3	102	BCL	O2A-CGA-O1A	-3.65	113.95	123.48
9	B8	101	BCL	CAA-CBA-CGA	-3.64	102.51	113.24
9	AB	101	BCL	C6-C5-C3	3.64	120.92	112.62
9	B5	102	BCL	CMB-C2B-C1B	-3.64	122.87	128.46
13	BM	405	MQ8	C12-C11-C3	3.64	122.67	111.69
9	AL	301	BCL	CBA-CAA-C2A	3.64	122.84	113.95
9	BF	102	BCL	CMB-C2B-C1B	-3.63	122.88	128.46
10	BM	403	BPH	OBB-CAB-C3B	3.63	125.97	120.08
9	AF	102	BCL	O2A-CGA-CBA	3.63	123.00	111.90
9	AZ	101	BCL	CGD-CBD-CHA	-3.63	105.24	113.65
9	BZ	101	BCL	O2A-CGA-O1A	-3.63	114.00	123.48
9	AF	102	BCL	O2A-CGA-O1A	-3.62	114.01	123.48
9	AT	101	BCL	CBA-CAA-C2A	3.62	122.80	113.95
9	AU	102	BCL	C12-C11-C10	-3.62	95.16	113.00
9	B4	101	BCL	CMB-C2B-C1B	-3.62	122.90	128.46
9	BL	303	BCL	CMB-C2B-C1B	-3.61	122.91	128.46
9	BV	101	BCL	O2D-CGD-CBD	3.61	118.64	111.34
9	BA	101	BCL	CGD-CBD-CHA	-3.61	105.29	113.65
9	AE	101	BCL	CMB-C2B-C1B	-3.60	122.93	128.46
9	AV	102	BCL	CMB-C2B-C1B	-3.60	122.93	128.46
9	AB	101	BCL	CMB-C2B-C1B	-3.60	122.94	128.46
9	BT	101	BCL	CMB-C2B-C1B	-3.60	122.94	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AJ	101	BCL	C6-C5-C3	3.59	120.82	112.62
9	B0	102	BCL	CMB-C2B-C1B	-3.59	122.94	128.46
9	BB	101	BCL	CMB-C2B-C1B	-3.59	122.94	128.46
14	BB	102	CRT	C30-C28-C27	-3.58	113.46	118.98
9	A7	103	BCL	O2D-CGD-CBD	3.58	118.57	111.34
9	BZ	101	BCL	O2D-CGD-CBD	3.58	118.57	111.34
9	AA	101	BCL	C5-C3-C2	3.57	127.92	121.06
9	BB	101	BCL	CMD-C2D-C3D	3.57	131.88	125.16
9	A8	101	BCL	O2D-CGD-CBD	3.56	118.54	111.34
9	BQ	104	BCL	O2A-CGA-CBA	3.56	122.79	111.90
9	BJ	101	BCL	CAA-C2A-C1A	3.55	121.92	112.51
9	BZ	101	BCL	C6-C5-C3	3.55	120.71	112.62
9	AV	102	BCL	CAA-C2A-C1A	3.54	121.89	112.51
14	AR	102	CRT	C21-C22-C23	-3.54	122.17	127.29
9	A0	102	BCL	CBA-CAA-C2A	3.54	122.60	113.95
13	AM	405	MQ8	C12-C11-C3	3.53	122.35	111.69
9	AV	102	BCL	C6-C5-C3	3.52	120.66	112.62
9	B8	101	BCL	C5-C3-C2	3.53	127.84	121.06
9	AX	101	BCL	CGD-CBD-CHA	-3.52	105.49	113.65
14	AR	102	CRT	C10-C9-C7	-3.52	122.20	127.29
9	AO	102	BCL	CAA-C2A-C3A	-3.52	104.50	113.32
9	BX	101	BCL	O2D-CGD-O1D	-3.51	116.73	123.79
9	B0	102	BCL	O2D-CGD-CBD	3.50	118.41	111.34
14	AN	102	CRT	C21-C22-C23	-3.49	122.24	127.29
14	BB	102	CRT	C21-C20-C19	-3.49	115.76	123.45
9	AB	101	BCL	O2D-CGD-CBD	3.49	118.39	111.34
9	BZ	101	BCL	O2A-CGA-CBA	3.48	122.55	111.90
9	B8	101	BCL	CMB-C2B-C1B	-3.48	123.12	128.46
9	BA	101	BCL	CMB-C2B-C1B	-3.47	123.12	128.46
7	BC	503	HEM	C4A-C3A-C2A	3.48	109.41	107.00
9	B3	102	BCL	CMB-C2B-C1B	-3.48	123.12	128.46
9	B9	102	BCL	CMB-C2B-C1B	-3.47	123.12	128.46
9	AU	102	BCL	C9-C8-C10	-3.46	97.52	111.05
10	BL	302	BPH	C1-C2-C3	3.46	132.23	126.23
15	AM	408	PEF	P-O3P-C1	-3.46	114.82	120.36
9	BA	101	BCL	C6-C5-C3	3.46	120.50	112.62
9	AP	101	BCL	C6-C5-C3	3.45	120.50	112.62
9	AR	101	BCL	CMB-C2B-C1B	-3.45	123.16	128.46
14	BW	103	CRT	C1M-O1-C1	3.45	134.08	115.49
9	BL	301	BCL	CBA-CAA-C2A	3.45	122.38	113.95
15	AS	101	PEF	C2-O2-C10	3.45	125.96	117.86
14	B0	101	CRT	C31-C32-C33	-3.45	122.31	127.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	AP	102	CRT	C4-C5-C6	-3.45	119.32	124.96
14	BO	103	CRT	C5-C6-C7	-3.44	120.75	125.94
15	BQ	101	PEF	C2-O2-C10	3.45	125.95	117.86
7	AC	503	HEM	C4A-NA-C1A	-3.44	103.80	107.12
9	AI	102	BCL	CMB-C2B-C1B	-3.43	123.20	128.46
15	AM	409	PEF	C2-O2-C10	3.43	125.90	117.86
14	BF	103	CRT	C40-C38-C37	-3.42	106.40	110.81
7	BC	501	HEM	CMA-C3A-C4A	-3.42	123.21	128.46
9	AA	101	BCL	CMB-C2B-C1B	-3.42	123.21	128.46
9	BP	101	BCL	CMD-C2D-C3D	3.41	131.59	125.16
9	B3	102	BCL	C6-C5-C3	3.41	120.41	112.62
14	BP	102	CRT	C37-C36-C35	-3.41	119.38	124.96
9	B0	102	BCL	O2A-CGA-O1A	-3.41	114.57	123.48
7	BC	501	HEM	C4A-C3A-C2A	3.41	109.37	107.00
9	A8	101	BCL	CAA-C2A-C3A	-3.41	104.79	113.32
9	AE	101	BCL	O2D-CGD-CBD	3.41	118.22	111.34
9	B2	101	BCL	C6-C5-C3	3.41	120.40	112.62
9	BL	301	BCL	C6-C5-C3	3.40	120.39	112.62
9	BB	101	BCL	C2D-C3D-CAD	3.41	148.82	134.94
9	A2	101	BCL	OB B-CAB-CBB	-3.40	111.83	120.12
9	AL	301	BCL	CMB-C2B-C1B	-3.40	123.23	128.46
14	A1	103	CRT	C20-C19-C17	-3.40	122.37	127.29
9	AX	101	BCL	C1-O2A-CGA	-3.40	107.11	117.00
9	BV	101	BCL	C6-C5-C3	3.40	120.38	112.62
7	AC	503	HEM	C4A-C3A-C2A	3.39	109.36	107.00
9	A6	101	BCL	O2D-CGD-CBD	3.39	118.18	111.34
9	AZ	101	BCL	CMB-C2B-C1B	-3.39	123.26	128.46
9	BX	101	BCL	CMB-C2B-C1B	-3.38	123.26	128.46
9	BY	102	BCL	C6-C5-C3	3.38	120.33	112.62
9	BL	301	BCL	CMB-C2B-C1B	-3.38	123.27	128.46
9	AL	301	BCL	C6-C5-C3	3.38	120.33	112.62
13	BM	405	MQ8	C45-C43-C44	3.37	120.51	115.39
9	AT	101	BCL	C6-C5-C3	3.37	120.31	112.62
9	BM	402	BCL	CAA-C2A-C3A	-3.36	104.89	113.32
9	BO	102	BCL	CMB-C2B-C1B	-3.37	123.29	128.46
7	BC	502	HEM	C4A-C3A-C2A	3.36	109.33	107.00
9	BQ	103	BCL	C2D-C3D-CAD	3.36	148.63	134.94
9	AX	101	BCL	CMB-C2B-C1B	-3.35	123.31	128.46
9	A3	104	BCL	CMB-C2B-C1B	-3.35	123.31	128.46
9	AE	101	BCL	C1-O2A-CGA	3.35	126.74	117.00
9	BF	102	BCL	OB B-CAB-CBB	-3.35	111.96	120.12
9	BD	102	BCL	O2D-CGD-O1D	-3.35	117.07	123.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	A2	101	BCL	CGD-CBD-CHA	-3.35	105.89	113.65
9	BQ	104	BCL	CGD-CBD-CHA	-3.35	105.89	113.65
9	AZ	101	BCL	O2D-CGD-CBD	3.34	118.09	111.34
7	AC	502	HEM	C4A-C3A-C2A	3.34	109.32	107.00
14	BB	102	CRT	C4-C5-C6	-3.34	119.50	124.96
9	AV	102	BCL	CAA-C2A-C3A	-3.34	104.96	113.32
14	A1	103	CRT	C13-C12-C11	3.34	123.49	118.09
11	AL	304	UQ8	C32-C33-C34	-3.34	120.59	127.81
9	A8	101	BCL	C5-C3-C2	3.34	127.47	121.06
14	A1	103	CRT	C30-C28-C27	-3.33	113.84	118.98
14	AS	104	CRT	C40-C38-C37	-3.33	106.52	110.81
15	AH	301	PEF	C3-O3-C30	3.33	122.20	116.47
9	AG	101	BCL	CAA-C2A-C1A	3.33	121.34	112.51
9	AX	101	BCL	O2D-CGD-CBD	3.33	118.06	111.34
9	B7	103	BCL	CMB-C2B-C1B	-3.33	123.35	128.46
9	B6	101	BCL	C6-C5-C3	3.33	120.22	112.62
14	A1	103	CRT	C11-C12-C14	-3.32	113.86	118.98
14	AS	104	CRT	C34-C33-C35	3.32	123.46	118.09
9	AL	303	BCL	CMB-C2B-C1B	-3.32	123.36	128.46
9	A1	102	BCL	OBB-CAB-CBB	-3.32	112.04	120.12
15	AM	407	PEF	C3-O3-C30	3.32	122.17	116.47
14	AB	102	CRT	C37-C36-C35	-3.31	119.54	124.96
9	BS	102	BCL	C4B-CHC-C1C	-3.31	123.57	130.12
9	BE	101	BCL	C2A-C1A-CHA	3.30	129.89	123.87
9	BW	102	BCL	O2D-CGD-O1D	-3.30	117.16	123.79
15	AS	101	PEF	O2-C10-C11	3.30	118.58	111.54
9	AP	101	BCL	C2D-C3D-CAD	3.30	148.40	134.94
9	A6	101	BCL	CMB-C2B-C1B	-3.30	123.39	128.46
9	A3	103	BCL	C6-C5-C3	3.30	120.15	112.62
9	B0	102	BCL	O2A-CGA-CBA	3.30	122.00	111.90
9	BF	102	BCL	C3A-C2A-C1A	3.29	107.05	101.70
9	BY	102	BCL	CMB-C2B-C1B	-3.29	123.40	128.46
9	BX	101	BCL	OBD-CAD-CBD	-3.29	120.97	125.94
9	AR	101	BCL	O2D-CGD-CBD	3.29	117.99	111.34
9	B2	101	BCL	CAA-CBA-CGA	-3.29	103.55	113.24
14	BB	102	CRT	C32-C31-C30	-3.29	112.20	123.23
14	AB	102	CRT	C16-C17-C19	-3.28	113.92	118.98
9	AK	102	BCL	C6-C5-C3	3.28	120.12	112.62
15	AM	409	PEF	O2-C10-C11	3.28	118.53	111.54
9	BZ	101	BCL	CMB-C2B-C1B	-3.28	123.43	128.46
15	BQ	101	PEF	O2-C10-C11	3.28	118.53	111.54
9	AD	102	BCL	OBB-CAB-CBB	-3.28	112.14	120.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BN	101	BCL	C6-C5-C3	3.27	120.09	112.62
15	BM	407	PEF	C3-O3-C30	3.27	122.09	116.47
9	BQ	103	BCL	CMD-C2D-C3D	3.27	131.32	125.16
14	B2	102	CRT	C8-C7-C6	3.27	123.37	118.09
9	A5	102	BCL	CBA-CAA-C2A	3.27	121.94	113.95
9	BF	102	BCL	O2A-C1-C2	3.26	115.59	108.12
9	AF	102	BCL	C6-C5-C3	3.26	120.07	112.62
9	BJ	101	BCL	C2D-C3D-CAD	3.26	148.24	134.94
14	A0	101	CRT	C8-C7-C9	-3.26	118.28	122.92
14	BU	103	CRT	C10-C11-C12	-3.26	117.03	126.37
9	A2	101	BCL	CMB-C2B-C1B	-3.26	123.45	128.46
10	AM	403	BPH	OBb-CAB-C3B	3.26	125.37	120.08
14	A0	101	CRT	C37-C36-C35	-3.26	119.63	124.96
14	B0	101	CRT	C20-C19-C17	-3.25	122.58	127.29
14	AJ	102	CRT	C21-C22-C23	-3.25	122.59	127.29
9	B0	102	BCL	OBb-CAB-CBB	-3.25	112.20	120.12
9	AT	101	BCL	C2D-C3D-CAD	3.25	148.19	134.94
9	A0	102	BCL	CGD-CBD-CHA	-3.25	106.12	113.65
14	B0	101	CRT	C34-C33-C35	3.24	123.33	118.09
9	A3	103	BCL	CBA-CAA-C2A	3.24	121.88	113.95
9	BG	101	BCL	CMB-C2B-C1B	-3.24	123.48	128.46
9	AR	101	BCL	O2A-CGA-O1A	-3.24	115.01	123.48
9	BK	102	BCL	C6-C5-C3	3.24	120.01	112.62
14	A5	103	CRT	C3-C1-C4	-3.23	106.65	110.81
9	AX	101	BCL	C6-C5-C3	3.23	119.99	112.62
9	BP	101	BCL	C2D-C3D-CAD	3.23	148.10	134.94
9	AF	102	BCL	CMB-C2B-C1B	-3.23	123.50	128.46
9	BE	101	BCL	O2D-CGD-CBD	3.23	117.86	111.34
9	BQ	104	BCL	C4B-CHC-C1C	-3.23	123.73	130.12
9	AO	102	BCL	C6-C5-C3	3.22	119.97	112.62
9	A0	102	BCL	CMB-C2B-C1B	-3.22	123.51	128.46
9	AY	102	BCL	O2A-C1-C2	3.22	115.48	108.12
9	AZ	101	BCL	OBb-CAB-CBB	-3.22	112.28	120.12
14	BG	102	CRT	C37-C36-C35	-3.21	119.70	124.96
9	BW	102	BCL	C2D-C3D-CAD	3.21	148.04	134.94
14	BU	103	CRT	C1M-O1-C1	3.21	132.80	115.49
9	AA	101	BCL	C6-C5-C3	3.21	119.95	112.62
9	BU	102	BCL	CMB-C2B-C1B	-3.21	123.53	128.46
9	AK	102	BCL	CBA-CAA-C2A	3.21	121.80	113.95
9	AP	101	BCL	C2C-C3C-C4C	3.21	106.78	101.62
7	AC	501	HEM	CMA-C3A-C4A	-3.21	123.53	128.46
9	AO	102	BCL	C2D-C3D-CAD	3.21	148.01	134.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BK	102	BCL	CMB-C2B-C1B	-3.20	123.54	128.46
9	BL	301	BCL	CAA-C2A-C1A	3.20	121.00	112.51
14	BW	103	CRT	C37-C36-C35	-3.20	119.73	124.96
9	AE	101	BCL	CAA-C2A-C3A	-3.19	105.32	113.32
14	A1	103	CRT	C40-C38-C37	-3.19	106.70	110.81
9	AW	101	BCL	C2D-C3D-CAD	3.19	147.94	134.94
7	AC	504	HEM	C4A-NA-C1A	-3.19	104.05	107.12
14	BA	102	CRT	C4-C5-C6	-3.18	119.75	124.96
7	BC	503	HEM	C3B-C4B-NB	-3.18	111.72	114.00
7	AC	503	HEM	C3B-C4B-NB	-3.18	111.72	114.00
9	BZ	101	BCL	OBB-CAB-CBB	-3.18	112.37	120.12
9	AN	101	BCL	C6-C5-C3	3.18	119.87	112.62
9	BO	102	BCL	OBB-CAB-CBB	-3.18	112.38	120.12
9	BQ	104	BCL	OBB-CAB-CBB	-3.17	112.39	120.12
9	BT	101	BCL	O2A-CGA-O1A	-3.17	115.20	123.48
9	BD	102	BCL	C3A-C2A-C1A	3.17	106.84	101.70
9	AV	102	BCL	O2A-C1-C2	-3.16	100.87	108.12
9	A8	101	BCL	CGD-CBD-CHA	-3.16	106.31	113.65
14	A0	101	CRT	C40-C38-C37	-3.16	106.74	110.81
9	BE	101	BCL	C2D-C3D-CAD	3.16	147.82	134.94
9	BE	101	BCL	CMD-C2D-C3D	3.16	131.11	125.16
14	A0	101	CRT	C4-C5-C6	-3.16	119.79	124.96
7	AC	502	HEM	CMA-C3A-C4A	-3.16	123.61	128.46
9	B9	102	BCL	C6-C5-C3	3.16	119.82	112.62
9	B1	102	BCL	C4B-CHC-C1C	-3.16	123.87	130.12
9	AA	101	BCL	CGD-CBD-CHA	-3.15	106.34	113.65
14	BN	102	CRT	C32-C31-C30	-3.15	112.65	123.23
9	B5	102	BCL	C6-C5-C3	3.15	119.82	112.62
9	A0	102	BCL	O2D-CGD-CBD	3.15	117.70	111.34
9	A9	102	BCL	CBA-CAA-C2A	3.15	121.65	113.95
9	AK	102	BCL	C2A-C1A-CHA	3.14	129.60	123.87
9	BQ	104	BCL	C2D-C3D-CAD	3.14	147.75	134.94
9	AO	102	BCL	CAA-C2A-C1A	3.14	120.84	112.51
9	B0	102	BCL	C6-C5-C3	3.14	119.79	112.62
9	BT	101	BCL	C4B-CHC-C1C	-3.14	123.90	130.12
9	BX	101	BCL	O2A-CGA-CBA	3.14	121.52	111.90
9	BB	101	BCL	O2A-CGA-O1A	-3.14	115.27	123.48
14	BB	102	CRT	C36-C35-C33	-3.14	121.21	125.94
9	A8	101	BCL	CMB-C2B-C1B	-3.14	123.64	128.46
9	BQ	104	BCL	O2D-CGD-CBD	3.14	117.68	111.34
9	BN	101	BCL	O2A-C1-C2	-3.14	100.94	108.12
14	A7	102	CRT	C37-C36-C35	-3.13	119.83	124.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AN	101	BCL	O2A-CGA-CBA	3.14	121.50	111.90
9	AM	401	BCL	C2D-C3D-CAD	3.13	147.72	134.94
9	B8	101	BCL	CGD-CBD-CHA	-3.13	106.39	113.65
14	AW	102	CRT	C1M-O1-C1	3.13	132.37	115.49
9	AN	101	BCL	CMB-C2B-C1B	-3.13	123.65	128.46
14	B5	103	CRT	C3-C1-C4	-3.13	106.78	110.81
9	AS	103	BCL	C4B-CHC-C1C	-3.13	123.91	130.12
9	AQ	102	BCL	C6-C5-C3	3.13	119.76	112.62
9	BX	101	BCL	C6-C5-C3	3.13	119.76	112.62
9	BI	102	BCL	C2D-C3D-CAD	3.13	147.69	134.94
14	BB	102	CRT	C29-C28-C30	3.12	123.14	118.09
14	B0	101	CRT	C13-C12-C11	3.12	123.14	118.09
9	B7	103	BCL	OBB-CAB-CBB	-3.12	112.51	120.12
9	BT	101	BCL	O2A-CGA-CBA	3.12	121.45	111.90
9	BM	401	BCL	OBB-CAB-CBB	-3.12	112.52	120.12
9	AM	401	BCL	OBB-CAB-CBB	-3.12	112.52	120.12
7	BC	503	HEM	C4A-NA-C1A	-3.12	104.11	107.12
9	BK	102	BCL	OBB-CAB-CBB	-3.12	112.53	120.12
9	AU	102	BCL	OBB-CAB-CBB	-3.12	112.52	120.12
9	AP	101	BCL	CMB-C2B-C1B	-3.12	123.67	128.46
14	AS	104	CRT	C21-C20-C19	-3.11	116.59	123.45
9	BW	102	BCL	OBB-CAB-CBB	-3.11	112.53	120.12
13	BM	405	MQ8	C11-C3-C4	-3.11	114.96	118.53
14	BM	406	CRT	C20-C19-C17	-3.11	122.79	127.29
9	BP	101	BCL	C6-C5-C3	3.11	119.72	112.62
9	AU	102	BCL	CBA-CAA-C2A	3.11	121.55	113.95
9	AJ	101	BCL	C1-O2A-CGA	3.11	126.04	117.00
9	BB	101	BCL	C2A-C1A-CHA	3.11	129.53	123.87
14	AM	406	CRT	C10-C9-C7	-3.11	122.80	127.29
9	AY	102	BCL	OBB-CAB-CBB	-3.10	112.56	120.12
9	A3	103	BCL	OBB-CAB-CBB	-3.10	112.56	120.12
14	B1	103	CRT	C10-C9-C7	-3.10	122.80	127.29
9	BS	102	BCL	C2D-C3D-CAD	3.10	147.60	134.94
9	AE	101	BCL	C4B-CHC-C1C	-3.10	123.97	130.12
7	BC	503	HEM	CMA-C3A-C4A	-3.10	123.69	128.46
9	A0	102	BCL	C2D-C3D-CAD	3.10	147.58	134.94
9	BF	102	BCL	C2B-C1B-NB	-3.10	107.43	109.50
10	BL	302	BPH	OBB-CAB-C3B	3.10	125.11	120.08
9	BM	401	BCL	C2D-C3D-CAD	3.10	147.57	134.94
14	B7	102	CRT	C1-C4-C5	3.10	121.68	113.41
9	AP	101	BCL	C4B-CHC-C1C	-3.10	123.98	130.12
9	BP	101	BCL	OBB-CAB-CBB	-3.09	112.58	120.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	B1	102	BCL	C2D-C3D-CAD	3.09	147.56	134.94
9	AL	301	BCL	CAA-C2A-C1A	3.09	120.71	112.51
9	AJ	101	BCL	C4B-CHC-C1C	-3.09	123.99	130.12
9	AR	101	BCL	C4B-CHC-C1C	-3.09	123.99	130.12
13	AM	405	MQ8	C21-C22-C23	-3.09	121.12	127.81
9	AT	101	BCL	OBB-CAB-CBB	-3.09	112.60	120.12
9	BV	101	BCL	CMB-C2B-C1B	-3.09	123.72	128.46
9	BN	101	BCL	OBB-CAB-CBB	-3.08	112.60	120.12
9	AZ	101	BCL	C6-C5-C3	3.09	119.66	112.62
9	BJ	101	BCL	CMD-C2D-C3D	3.08	130.97	125.16
13	AM	405	MQ8	C45-C43-C44	3.08	120.07	115.39
14	AB	102	CRT	C30-C28-C27	-3.08	114.23	118.98
9	AQ	102	BCL	C2D-C3D-CAD	3.08	147.48	134.94
9	AB	101	BCL	OBB-CAB-CBB	-3.07	112.63	120.12
9	AA	101	BCL	OBB-CAB-CBB	-3.07	112.63	120.12
9	A2	101	BCL	C2D-C3D-CAD	3.07	147.47	134.94
9	AN	101	BCL	O2A-CGA-O1A	-3.07	115.44	123.48
7	AC	502	HEM	C4A-NA-C1A	-3.07	104.16	107.12
9	AX	101	BCL	C2D-C3D-CAD	3.07	147.46	134.94
9	AY	102	BCL	C2D-C3D-CAD	3.07	147.47	134.94
9	BY	102	BCL	OBB-CAB-CBB	-3.07	112.64	120.12
9	BY	102	BCL	O2D-CGD-O1D	-3.07	117.62	123.79
14	B2	102	CRT	C13-C12-C11	3.07	123.05	118.09
14	BM	406	CRT	C31-C32-C33	-3.07	122.85	127.29
11	AL	304	UQ8	C41-C42-C43	3.07	120.37	111.64
9	A7	103	BCL	C1-O2A-CGA	-3.07	108.08	117.00
9	AU	102	BCL	C10-C8-C7	3.07	129.71	112.45
9	BQ	104	BCL	CMD-C2D-C3D	3.07	130.94	125.16
11	BL	304	UQ8	C30-C29-C31	3.07	120.04	115.39
9	BM	402	BCL	OBB-CAB-CBB	-3.07	112.65	120.12
9	B3	102	BCL	OBB-CAB-CBB	-3.07	112.65	120.12
14	BF	103	CRT	C21-C22-C23	-3.07	122.86	127.29
9	BU	102	BCL	OBB-CAB-CBB	-3.06	112.66	120.12
9	BD	102	BCL	CGD-CBD-CHA	-3.06	106.55	113.65
9	AM	402	BCL	C4B-CHC-C1C	-3.06	124.06	130.12
9	A7	103	BCL	CBA-CAA-C2A	3.06	121.43	113.95
9	B4	101	BCL	O2A-CGA-O1A	-3.06	115.49	123.48
9	BW	102	BCL	C4B-CHC-C1C	-3.05	124.07	130.12
9	B5	102	BCL	OBB-CAB-CBB	-3.05	112.68	120.12
14	AN	102	CRT	C21-C20-C19	-3.05	116.72	123.45
9	A8	101	BCL	C2B-C1B-NB	-3.05	107.46	109.50
9	B8	101	BCL	O2A-C1-C2	-3.05	101.13	108.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BS	102	BCL	OBB-CAB-CBB	-3.05	112.68	120.12
9	BU	102	BCL	C6-C5-C3	3.05	119.59	112.62
9	AM	402	BCL	OBB-CAB-CBB	-3.05	112.68	120.12
9	BI	102	BCL	CMB-C2B-C1B	-3.05	123.77	128.46
9	BX	101	BCL	OBB-CAB-CBB	-3.05	112.68	120.12
9	AE	101	BCL	C2D-C3D-CAD	3.05	147.38	134.94
9	BT	101	BCL	OBB-CAB-CBB	-3.05	112.69	120.12
14	AT	102	CRT	C20-C19-C17	-3.05	122.88	127.29
9	A5	102	BCL	OBB-CAB-CBB	-3.05	112.69	120.12
7	BC	504	HEM	C4A-NA-C1A	-3.05	104.19	107.12
7	BC	502	HEM	C4A-NA-C1A	-3.04	104.19	107.12
9	AL	303	BCL	C4B-CHC-C1C	-3.04	124.09	130.12
7	AC	501	HEM	C4A-NA-C1A	-3.04	104.19	107.12
9	A1	102	BCL	O2D-CGD-O1D	-3.04	117.68	123.79
9	AL	301	BCL	OBB-CAB-CBB	-3.04	112.71	120.12
9	B6	101	BCL	OBB-CAB-CBB	-3.04	112.71	120.12
9	A3	104	BCL	O2D-CGD-CBD	3.04	117.48	111.34
14	B7	102	CRT	C6-C7-C9	-3.04	114.30	118.98
9	BJ	101	BCL	O2A-CGA-CBA	3.04	121.20	111.90
14	BO	103	CRT	C21-C20-C19	-3.04	116.76	123.45
10	AL	302	BPH	OBB-CAB-C3B	3.04	125.01	120.08
9	BT	101	BCL	C2D-C3D-CAD	3.04	147.33	134.94
9	B4	101	BCL	O2A-CGA-CBA	3.04	121.20	111.90
9	AX	101	BCL	C4B-CHC-C1C	-3.04	124.10	130.12
9	AQ	102	BCL	OBB-CAB-CBB	-3.04	112.72	120.12
9	AV	102	BCL	C4B-CHC-C1C	-3.03	124.11	130.12
9	BD	102	BCL	C2D-C3D-CAD	3.03	147.30	134.94
9	A9	102	BCL	C2D-C3D-CAD	3.03	147.30	134.94
9	AG	101	BCL	C4B-CHC-C1C	-3.03	124.12	130.12
9	BK	102	BCL	C2D-C3D-CAD	3.03	147.29	134.94
9	AV	102	BCL	OBB-CAB-CBB	-3.02	112.75	120.12
14	B1	103	CRT	C3-C1-C4	-3.02	106.92	110.81
9	AN	101	BCL	OBB-CAB-CBB	-3.02	112.75	120.12
9	AL	303	BCL	C2D-C3D-CAD	3.02	147.26	134.94
9	AW	101	BCL	OBB-CAB-CBB	-3.02	112.75	120.12
11	AL	304	UQ8	C30-C29-C31	3.02	119.98	115.39
14	B0	101	CRT	C38-C37-C36	-3.02	105.35	113.41
14	BN	102	CRT	C3-C1-C4	-3.02	106.93	110.81
9	B2	101	BCL	C4B-CHC-C1C	-3.02	124.14	130.12
9	BG	101	BCL	OBB-CAB-CBB	-3.02	112.77	120.12
9	A5	102	BCL	C2D-C3D-CAD	3.02	147.25	134.94
9	BL	303	BCL	C4B-CHC-C1C	-3.02	124.14	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	AT	102	CRT	C3-C1-C4	-3.01	106.93	110.81
9	A8	101	BCL	C2D-C3D-CAD	3.01	147.23	134.94
9	AT	101	BCL	C4B-CHC-C1C	-3.01	124.15	130.12
9	AD	102	BCL	C4B-CHC-C1C	-3.01	124.15	130.12
14	AJ	102	CRT	C3-C1-C4	-3.01	106.93	110.81
9	BF	102	BCL	C2D-C3D-CAD	3.01	147.22	134.94
9	BL	303	BCL	C2D-C3D-CAD	3.01	147.22	134.94
9	AF	102	BCL	OBB-CAB-CBB	-3.01	112.78	120.12
9	AJ	101	BCL	OBB-CAB-CBB	-3.01	112.78	120.12
9	A0	102	BCL	OBB-CAB-CBB	-3.01	112.78	120.12
9	A7	103	BCL	C2D-C3D-CAD	3.01	147.22	134.94
9	BP	101	BCL	C2A-C1A-CHA	3.01	129.36	123.87
9	BE	101	BCL	C2C-C3C-C4C	3.01	106.46	101.62
9	A1	102	BCL	C2D-C3D-CAD	3.01	147.21	134.94
9	AK	102	BCL	C2D-C3D-CAD	3.01	147.20	134.94
9	BM	402	BCL	C2D-C3D-CAD	3.01	147.20	134.94
9	BD	102	BCL	OBB-CAB-CBB	-3.00	112.80	120.12
9	AL	301	BCL	C2D-C3D-CAD	3.00	147.19	134.94
9	A0	102	BCL	C4B-CHC-C1C	-3.00	124.17	130.12
9	AJ	101	BCL	C2D-C3D-CAD	3.00	147.17	134.94
9	A6	101	BCL	C2D-C3D-CAD	3.00	147.17	134.94
7	AC	504	HEM	C4A-C3A-C2A	3.00	109.08	107.00
9	AP	101	BCL	CMD-C2D-C3D	3.00	130.81	125.16
9	BV	101	BCL	C4B-CHC-C1C	-3.00	124.18	130.12
14	BS	103	CRT	C20-C19-C17	-3.00	122.96	127.29
9	AI	102	BCL	C2D-C3D-CAD	3.00	147.15	134.94
7	AC	504	HEM	CMA-C3A-C4A	-3.00	123.86	128.46
14	A1	103	CRT	C29-C28-C30	2.99	122.93	118.09
9	B0	102	BCL	C4B-CHC-C1C	-2.99	124.19	130.12
9	AN	101	BCL	C4B-CHC-C1C	-2.99	124.19	130.12
9	BO	102	BCL	C2D-C3D-CAD	2.99	147.15	134.94
9	BZ	101	BCL	C4B-CHC-C1C	-2.99	124.19	130.12
9	BG	101	BCL	O2A-CGA-CBA	2.99	121.05	111.90
9	AG	101	BCL	C2D-C3D-CAD	2.99	147.12	134.94
9	AQ	102	BCL	CMB-C2B-C1B	-2.99	123.87	128.46
9	AA	101	BCL	C2D-C3D-CAD	2.99	147.12	134.94
7	BC	502	HEM	CMA-C3A-C4A	-2.99	123.87	128.46
9	B4	101	BCL	OBB-CAB-CBB	-2.99	112.84	120.12
14	BP	102	CRT	C1M-O1-C1	2.99	131.58	115.49
9	AB	101	BCL	C2D-C3D-CAD	2.98	147.10	134.94
9	BV	101	BCL	OBB-CAB-CBB	-2.98	112.85	120.12
9	BV	101	BCL	C2D-C3D-CAD	2.98	147.11	134.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	BM	403	BPH	C6-C5-C3	2.98	119.42	112.62
9	AZ	101	BCL	C2D-C3D-CAD	2.98	147.09	134.94
9	BX	101	BCL	C4B-CHC-C1C	-2.98	124.22	130.12
9	BN	101	BCL	C2D-C3D-CAD	2.98	147.08	134.94
9	BL	301	BCL	C2D-C3D-CAD	2.98	147.08	134.94
9	AD	102	BCL	C2D-C3D-CAD	2.98	147.08	134.94
9	BA	101	BCL	C2D-C3D-CAD	2.98	147.07	134.94
9	BL	301	BCL	OBb-CAB-CBB	-2.97	112.87	120.12
9	AU	102	BCL	CAA-CBA-CGA	2.98	122.01	113.24
9	B2	101	BCL	C2D-C3D-CAD	2.97	147.06	134.94
14	A2	102	CRT	C3-C1-C2	-2.97	104.17	110.29
9	AV	102	BCL	CGD-CBD-CHA	-2.97	106.76	113.65
9	B9	102	BCL	C2D-C3D-CAD	2.97	147.06	134.94
9	BZ	101	BCL	C2D-C3D-CAD	2.97	147.05	134.94
14	A1	103	CRT	C21-C20-C19	-2.97	116.91	123.45
14	BG	102	CRT	C32-C31-C30	-2.97	113.26	123.23
9	BA	101	BCL	OBb-CAB-CBB	-2.97	112.88	120.12
9	B3	102	BCL	C4B-CHC-C1C	-2.97	124.23	130.12
9	AP	101	BCL	OBb-CAB-CBB	-2.97	112.89	120.12
14	AB	102	CRT	C18-C17-C16	2.97	122.88	118.09
14	AN	102	CRT	C3-C1-C4	-2.97	106.99	110.81
9	B6	101	BCL	C2D-C3D-CAD	2.97	147.03	134.94
14	BN	102	CRT	C29-C28-C30	2.96	122.88	118.09
9	AD	102	BCL	C6-C5-C3	2.96	119.38	112.62
9	A6	101	BCL	OBb-CAB-CBB	-2.96	112.90	120.12
9	AG	101	BCL	OBb-CAB-CBB	-2.96	112.90	120.12
9	B8	101	BCL	C2D-C3D-CAD	2.96	147.01	134.94
9	AR	101	BCL	C2A-C3A-C4A	2.96	106.68	101.89
9	BQ	103	BCL	OBb-CAB-CBB	-2.96	112.91	120.12
9	A8	101	BCL	OBb-CAB-CBB	-2.96	112.91	120.12
9	AK	102	BCL	OBb-CAB-CBB	-2.96	112.91	120.12
9	AJ	101	BCL	O2D-CGD-CBD	2.96	117.32	111.34
9	BT	101	BCL	C6-C5-C3	2.96	119.37	112.62
9	AW	101	BCL	CMB-C2B-C1B	-2.96	123.92	128.46
9	BQ	104	BCL	O2A-CGA-O1A	-2.96	115.75	123.48
9	BM	402	BCL	C4B-CHC-C1C	-2.96	124.26	130.12
9	AS	103	BCL	CBA-CAA-C2A	2.96	121.18	113.95
9	AM	401	BCL	C6-C5-C3	2.95	119.36	112.62
14	BF	103	CRT	C29-C28-C30	2.95	122.86	118.09
14	B2	102	CRT	C5-C6-C7	2.95	130.40	125.94
9	BB	101	BCL	C2B-C1B-NB	-2.95	107.53	109.50
9	AR	101	BCL	C6-C5-C3	2.95	119.36	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AM	402	BCL	CAA-C2A-C3A	-2.95	105.93	113.32
14	BG	102	CRT	C30-C28-C27	-2.95	114.43	118.98
9	AT	101	BCL	C2C-C3C-C4C	2.95	106.37	101.62
9	BY	102	BCL	C4B-CHC-C1C	-2.95	124.27	130.12
14	AB	102	CRT	C29-C28-C30	2.95	122.86	118.09
9	B7	103	BCL	C2D-C3D-CAD	2.95	146.97	134.94
9	A3	103	BCL	C2D-C3D-CAD	2.95	146.97	134.94
9	B6	101	BCL	C4B-CHC-C1C	-2.95	124.27	130.12
9	BU	102	BCL	C4B-CHC-C1C	-2.95	124.27	130.12
14	BB	102	CRT	C16-C17-C19	-2.95	114.44	118.98
9	AM	402	BCL	C2D-C3D-CAD	2.95	146.96	134.94
14	BB	102	CRT	C18-C17-C16	2.94	122.85	118.09
14	B0	101	CRT	C3-C1-C4	-2.94	107.02	110.81
14	AR	102	CRT	C21-C20-C19	-2.95	116.96	123.45
9	AI	102	BCL	OBB-CAB-CBB	-2.95	112.94	120.12
9	BT	101	BCL	CMD-C2D-C3D	2.94	130.71	125.16
9	B5	102	BCL	C4B-CHC-C1C	-2.94	124.29	130.12
9	BJ	101	BCL	CMB-C2B-C1B	-2.94	123.94	128.46
9	AF	102	BCL	C2D-C3D-CAD	2.94	146.93	134.94
14	AW	102	CRT	C3-C1-C2	-2.94	104.25	110.29
9	BG	101	BCL	C2D-C3D-CAD	2.94	146.93	134.94
9	A9	102	BCL	C2B-C1B-NB	-2.94	107.53	109.50
9	AQ	102	BCL	C2A-C1A-CHA	2.94	129.23	123.87
9	AB	101	BCL	C4B-CHC-C1C	-2.94	124.30	130.12
9	B4	101	BCL	C2D-C3D-CAD	2.94	146.92	134.94
9	B4	101	BCL	C4B-CHC-C1C	-2.94	124.30	130.12
9	A5	102	BCL	CMB-C2B-C1B	-2.94	123.95	128.46
9	AI	102	BCL	C4B-CHC-C1C	-2.94	124.30	130.12
9	B2	101	BCL	C1-O2A-CGA	2.94	125.54	117.00
9	AZ	101	BCL	C4B-CHC-C1C	-2.94	124.30	130.12
9	AN	101	BCL	C2D-C3D-CAD	2.93	146.90	134.94
9	AS	103	BCL	OBB-CAB-CBB	-2.93	112.97	120.12
14	BN	102	CRT	C21-C22-C23	-2.93	123.05	127.29
9	AJ	101	BCL	CGD-CBD-CHA	-2.93	106.86	113.65
9	AW	101	BCL	C4B-CHC-C1C	-2.93	124.31	130.12
9	B8	101	BCL	OBB-CAB-CBB	-2.93	112.98	120.12
9	AO	102	BCL	OBB-CAB-CBB	-2.93	112.98	120.12
9	AZ	101	BCL	C2A-C3A-C4A	2.93	106.63	101.89
9	B9	102	BCL	C2A-C1A-CHA	2.93	129.21	123.87
9	BM	401	BCL	C6-C5-C3	2.93	119.30	112.62
9	BD	102	BCL	C6-C5-C3	2.92	119.29	112.62
9	A3	104	BCL	C2D-C3D-CAD	2.92	146.85	134.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	B5	102	BCL	C2D-C3D-CAD	2.92	146.84	134.94
9	B2	101	BCL	OBB-CAB-CBB	-2.92	113.01	120.12
9	B3	102	BCL	C2D-C3D-CAD	2.92	146.84	134.94
9	BX	101	BCL	C2A-C1A-CHA	2.92	129.19	123.87
9	A7	103	BCL	OBB-CAB-CBB	-2.92	113.01	120.12
9	B1	102	BCL	CMD-C2D-C3D	2.92	130.66	125.16
9	A3	104	BCL	C4B-CHC-C1C	-2.91	124.35	130.12
9	AF	102	BCL	C2B-C1B-NB	-2.91	107.55	109.50
9	B0	102	BCL	C2D-C3D-CAD	2.91	146.81	134.94
14	B1	103	CRT	C21-C20-C19	-2.91	117.05	123.45
9	BS	102	BCL	C2B-C1B-NB	-2.91	107.56	109.50
9	A9	102	BCL	CMB-C2B-C1B	-2.91	124.00	128.46
9	AU	102	BCL	CMB-C2B-C1B	-2.91	124.00	128.46
14	A7	102	CRT	C3-C1-C4	-2.90	107.07	110.81
9	A9	102	BCL	C4B-CHC-C1C	-2.90	124.37	130.12
9	B9	102	BCL	C4B-CHC-C1C	-2.90	124.37	130.12
9	BX	101	BCL	O2A-CGA-O1A	-2.90	115.89	123.48
9	A3	104	BCL	OBB-CAB-CBB	-2.90	113.05	120.12
9	AF	102	BCL	C4B-CHC-C1C	-2.90	124.37	130.12
14	A5	103	CRT	C21-C22-C23	-2.90	123.10	127.29
9	AE	101	BCL	C2A-C1A-CHA	2.90	129.15	123.87
14	AS	104	CRT	C32-C31-C30	-2.90	113.51	123.23
9	AR	101	BCL	C2C-C3C-C4C	2.90	106.28	101.62
9	BF	102	BCL	C2A-C1A-CHA	2.89	129.15	123.87
9	B2	101	BCL	CGD-CBD-CHA	-2.89	106.94	113.65
9	AY	102	BCL	C2C-C3C-C4C	2.89	106.27	101.62
14	BM	406	CRT	C5-C6-C7	-2.89	121.58	125.94
13	AM	405	MQ8	C19-C18-C20	2.89	119.77	115.39
9	BN	101	BCL	O2A-CGA-CBA	2.88	120.73	111.90
9	BP	101	BCL	C4B-CHC-C1C	-2.89	124.40	130.12
9	AX	101	BCL	OBB-CAB-CBB	-2.88	113.09	120.12
9	AF	102	BCL	CGD-CBD-CHA	-2.88	106.97	113.65
9	AK	102	BCL	C4B-CHC-C1C	-2.88	124.41	130.12
14	BF	103	CRT	C32-C31-C30	-2.88	113.55	123.23
9	AU	102	BCL	C2D-C3D-CAD	2.88	146.69	134.94
9	AV	102	BCL	C2D-C3D-CAD	2.88	146.68	134.94
9	AM	401	BCL	C4B-CHC-C1C	-2.88	124.42	130.12
9	BD	102	BCL	C2B-C1B-NB	-2.88	107.58	109.50
9	BP	101	BCL	C2B-C1B-NB	-2.88	107.58	109.50
9	BB	101	BCL	C4A-NA-C1A	2.88	110.43	106.38
9	A8	101	BCL	C4B-CHC-C1C	-2.87	124.43	130.12
9	BA	101	BCL	C4B-CHC-C1C	-2.87	124.43	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BV	101	BCL	C2B-C1B-NB	-2.87	107.58	109.50
9	AB	101	BCL	CGD-CBD-CHA	-2.87	107.00	113.65
9	A1	102	BCL	CAA-CBA-CGA	2.87	121.69	113.24
9	AS	103	BCL	C2D-C3D-CAD	2.87	146.63	134.94
9	AA	101	BCL	C4B-CHC-C1C	-2.87	124.44	130.12
9	AL	303	BCL	OBB-CAB-CBB	-2.86	113.14	120.12
9	BW	102	BCL	C2C-C3C-C4C	2.86	106.23	101.62
14	BM	406	CRT	C10-C9-C7	-2.86	123.15	127.29
9	AL	303	BCL	C6-C5-C3	2.86	119.15	112.62
7	BC	501	HEM	C4A-NA-C1A	-2.86	104.36	107.12
9	BQ	103	BCL	C3A-C2A-C1A	2.86	106.35	101.70
9	A3	103	BCL	O2D-CGD-O1D	-2.86	118.05	123.79
9	AE	101	BCL	O2A-CGA-O1A	-2.86	116.00	123.48
9	B8	101	BCL	O2D-CGD-O1D	-2.86	118.04	123.79
9	A7	103	BCL	C4B-CHC-C1C	-2.86	124.45	130.12
9	AM	401	BCL	O2D-CGD-O1D	-2.86	118.05	123.79
9	B2	101	BCL	CBA-CAA-C2A	2.86	120.94	113.95
14	AM	406	CRT	C37-C36-C35	-2.86	120.28	124.96
9	AS	103	BCL	C6-C5-C3	2.86	119.15	112.62
7	BC	504	HEM	C4A-C3A-C2A	2.86	108.98	107.00
9	AR	101	BCL	CGD-CBD-CHA	-2.86	107.02	113.65
14	AJ	102	CRT	C32-C31-C30	-2.86	113.65	123.23
9	BN	101	BCL	O2A-CGA-O1A	-2.85	116.03	123.48
9	BP	101	BCL	C4A-NA-C1A	2.85	110.40	106.38
9	AZ	101	BCL	CMD-C2D-C3D	2.85	130.53	125.16
14	BV	102	CRT	C34-C33-C35	2.85	122.69	118.09
13	BM	405	MQ8	C21-C22-C23	-2.85	121.65	127.81
9	A1	102	BCL	CMB-C2B-C1B	-2.85	124.09	128.46
9	AL	301	BCL	C4B-CHC-C1C	-2.85	124.48	130.12
10	AL	302	BPH	C4D-C3D-C2D	2.84	110.11	106.98
9	BM	401	BCL	C4B-CHC-C1C	-2.84	124.49	130.12
9	A8	101	BCL	C2C-C3C-C4C	2.84	106.19	101.62
9	AF	102	BCL	CBA-CAA-C2A	2.84	120.89	113.95
9	AR	101	BCL	OBB-CAB-CBB	-2.84	113.20	120.12
14	BV	102	CRT	C5-C6-C7	-2.84	121.66	125.94
9	AT	101	BCL	C2A-C1A-CHA	2.83	129.04	123.87
9	A5	102	BCL	C4B-CHC-C1C	-2.84	124.50	130.12
9	B1	102	BCL	C2C-C3C-C4C	2.83	106.18	101.62
9	A6	101	BCL	C4B-CHC-C1C	-2.83	124.51	130.12
9	AP	101	BCL	O2D-CGD-O1D	-2.83	118.10	123.79
9	B9	102	BCL	OBB-CAB-CBB	-2.83	113.22	120.12
9	AG	101	BCL	CGD-CBD-CHA	-2.83	107.09	113.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BD	102	BCL	C2C-C3C-C4C	2.83	106.17	101.62
9	AY	102	BCL	C1-O2A-CGA	2.83	125.22	117.00
9	BL	301	BCL	C2B-C1B-NB	-2.83	107.61	109.50
14	A1	103	CRT	C32-C31-C30	-2.83	113.75	123.23
14	AM	406	CRT	C15-C14-C12	-2.83	123.20	127.29
9	BV	101	BCL	CGD-CBD-CHA	-2.83	107.10	113.65
15	AS	101	PEF	O3P-C1-C2	2.83	117.67	108.54
14	BS	103	CRT	C3-C1-C4	-2.82	107.18	110.81
11	BL	304	UQ8	C46-C44-C43	-2.82	113.47	122.62
14	AX	102	CRT	C10-C11-C12	-2.82	118.28	126.37
14	AG	102	CRT	C3-C1-C4	-2.82	107.18	110.81
9	BI	102	BCL	C4B-CHC-C1C	-2.82	124.52	130.12
9	AR	101	BCL	C2D-C3D-CAD	2.82	146.45	134.94
9	BL	301	BCL	C4B-CHC-C1C	-2.82	124.53	130.12
9	A3	103	BCL	C4B-CHC-C1C	-2.82	124.53	130.12
9	AO	102	BCL	C4B-CHC-C1C	-2.82	124.53	130.12
15	AM	409	PEF	O3P-C1-C2	2.82	117.64	108.54
7	AC	501	HEM	C4A-C3A-C2A	2.82	108.96	107.00
14	BW	103	CRT	C13-C12-C11	2.82	122.64	118.09
9	A1	102	BCL	C4B-CHC-C1C	-2.82	124.54	130.12
9	B1	102	BCL	OBb-CAB-CBB	-2.82	113.25	120.12
9	BF	102	BCL	C4A-NA-C1A	2.82	110.35	106.38
9	AY	102	BCL	C4B-CHC-C1C	-2.82	124.54	130.12
9	AY	102	BCL	CMB-C2B-C1B	-2.82	124.14	128.46
14	BG	102	CRT	C29-C28-C30	2.82	122.64	118.09
10	AL	302	BPH	CMB-C2B-C1B	-2.81	124.19	128.49
14	AA	102	CRT	C20-C19-C17	-2.81	123.22	127.29
9	BM	401	BCL	CBA-CAA-C2A	-2.81	107.07	113.95
15	BM	407	PEF	O3P-C1-C2	2.81	117.62	108.54
9	BW	102	BCL	C6-C5-C3	2.81	119.04	112.62
9	BM	401	BCL	C2C-C3C-C4C	2.81	106.14	101.62
15	AM	407	PEF	O3P-C1-C2	2.81	117.61	108.54
9	AR	101	BCL	C2B-C1B-NB	-2.81	107.62	109.50
9	AL	301	BCL	C2A-C1A-CHA	2.81	128.99	123.87
15	AH	301	PEF	O3P-C1-C2	2.80	117.60	108.54
15	BQ	101	PEF	O3P-C1-C2	2.81	117.60	108.54
9	A9	102	BCL	CAA-C2A-C3A	-2.80	106.30	113.32
9	BP	101	BCL	C2C-C3C-C4C	2.80	106.13	101.62
9	AU	102	BCL	C4B-CHC-C1C	-2.80	124.56	130.12
9	BN	101	BCL	C4B-CHC-C1C	-2.80	124.58	130.12
14	BF	103	CRT	C1-C4-C5	2.80	120.88	113.41
14	AN	102	CRT	C32-C31-C30	-2.80	113.84	123.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	A6	101	BCL	C2C-C3C-C4C	2.80	106.12	101.62
9	B7	103	BCL	C4B-CHC-C1C	-2.80	124.58	130.12
9	B8	101	BCL	C2A-C1A-CHA	2.80	128.97	123.87
9	BD	102	BCL	C4B-CHC-C1C	-2.79	124.58	130.12
9	AO	102	BCL	C2C-C3C-C4C	2.79	106.11	101.62
14	BU	103	CRT	C13-C12-C14	-2.79	118.94	122.92
9	BN	101	BCL	C1-O2A-CGA	2.79	125.12	117.00
9	BL	303	BCL	OBB-CAB-CBB	-2.79	113.32	120.12
9	AM	401	BCL	C2C-C3C-C4C	2.79	106.11	101.62
9	A3	103	BCL	CMB-C2B-C1B	-2.79	124.18	128.46
14	A5	103	CRT	C20-C19-C17	-2.79	123.26	127.29
13	AM	405	MQ8	C24-C23-C25	2.78	119.62	115.39
14	BV	102	CRT	C14-C15-C16	-2.78	113.89	123.23
7	AC	503	HEM	CMA-C3A-C4A	-2.78	124.19	128.46
14	AJ	102	CRT	C21-C20-C19	-2.78	117.32	123.45
9	BD	102	BCL	C4A-NA-C1A	2.78	110.30	106.38
14	BP	102	CRT	C29-C28-C30	2.78	122.58	118.09
14	AS	104	CRT	C3-C1-C4	-2.78	107.23	110.81
9	BI	102	BCL	OBB-CAB-CBB	-2.78	113.35	120.12
9	BJ	101	BCL	C2C-C3C-C4C	2.78	106.08	101.62
9	BI	102	BCL	C2B-C1B-NB	-2.78	107.64	109.50
9	A7	103	BCL	C2B-C1B-NB	-2.77	107.64	109.50
14	AN	102	CRT	C4-C5-C6	-2.77	120.43	124.96
9	AN	101	BCL	C2C-C3C-C4C	2.77	106.08	101.62
9	B8	101	BCL	C4B-CHC-C1C	-2.77	124.63	130.12
10	AM	403	BPH	C6-C5-C3	2.77	118.94	112.62
9	AF	102	BCL	C2C-C3C-C4C	2.77	106.07	101.62
9	B0	102	BCL	C2A-C1A-CHA	2.77	128.91	123.87
7	BC	501	HEM	CAD-CBD-CGD	2.76	118.74	113.53
9	BY	102	BCL	C2D-C3D-CAD	2.76	146.21	134.94
14	AM	406	CRT	C26-C27-C28	-2.76	123.29	127.29
9	A7	103	BCL	CMA-C3A-C2A	-2.76	102.20	114.45
9	B2	101	BCL	C2C-C3C-C4C	2.76	106.06	101.62
14	BP	102	CRT	C14-C15-C16	-2.76	113.97	123.23
9	BJ	101	BCL	OBB-CAB-CBB	-2.76	113.40	120.12
9	BK	102	BCL	C4B-CHC-C1C	-2.76	124.65	130.12
9	BQ	104	BCL	C2A-C3A-C4A	2.76	106.36	101.89
9	B5	102	BCL	C2B-C1B-NB	-2.76	107.66	109.50
9	AL	301	BCL	C2B-C1B-NB	-2.76	107.66	109.50
9	AB	101	BCL	C2A-C1A-CHA	2.75	128.89	123.87
9	BL	301	BCL	C2C-C3C-C4C	2.75	106.05	101.62
9	AU	102	BCL	C1D-C2D-C3D	-2.75	104.28	106.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	B7	103	BCL	C2B-C1B-NB	-2.75	107.66	109.50
9	BE	101	BCL	OBB-CAB-CBB	-2.75	113.41	120.12
9	B3	102	BCL	C2B-C1B-NB	-2.75	107.66	109.50
9	B0	102	BCL	CGD-CBD-CHA	-2.75	107.27	113.65
9	B9	102	BCL	C2C-C3C-C4C	2.75	106.05	101.62
9	AU	102	BCL	C2C-C3C-C4C	2.75	106.04	101.62
14	B1	103	CRT	C21-C22-C23	-2.75	123.32	127.29
9	B1	102	BCL	CMB-C2B-C1B	-2.75	124.24	128.46
14	AB	102	CRT	C14-C15-C16	-2.75	114.01	123.23
9	BM	401	BCL	O2D-CGD-O1D	-2.75	118.28	123.79
14	BF	103	CRT	C21-C20-C19	-2.74	117.40	123.45
11	AL	304	UQ8	C15-C14-C16	2.74	119.55	115.39
9	AV	102	BCL	C2C-C3C-C4C	2.74	106.03	101.62
14	AN	102	CRT	C30-C28-C27	-2.74	114.76	118.98
9	BL	303	BCL	C6-C5-C3	2.74	118.87	112.62
9	BT	101	BCL	C2A-C1A-CHA	2.74	128.86	123.87
14	AX	102	CRT	C13-C12-C14	-2.74	119.02	122.92
9	B4	101	BCL	C2C-C3C-C4C	2.74	106.03	101.62
13	AM	405	MQ8	C39-C38-C40	2.74	119.55	115.39
9	AQ	102	BCL	C4B-CHC-C1C	-2.74	124.69	130.12
14	AW	102	CRT	C4-C5-C6	-2.74	120.48	124.96
14	BP	102	CRT	C27-C26-C25	-2.74	114.04	123.23
14	BN	102	CRT	C35-C33-C32	-2.74	114.77	118.98
9	BU	102	BCL	C2D-C3D-CAD	2.74	146.10	134.94
9	A9	102	BCL	OBB-CAB-CBB	-2.74	113.45	120.12
9	BJ	101	BCL	C4B-CHC-C1C	-2.73	124.70	130.12
7	AC	502	HEM	CHC-C1C-NC	2.74	127.50	124.38
14	BA	102	CRT	C20-C19-C17	-2.73	123.34	127.29
14	BG	102	CRT	C3-C1-C4	-2.73	107.29	110.81
9	BE	101	BCL	C4B-CHC-C1C	-2.73	124.70	130.12
14	AN	102	CRT	C29-C28-C30	2.73	122.50	118.09
14	AG	102	CRT	C21-C22-C23	-2.73	123.34	127.29
9	BM	402	BCL	C2C-C3C-C4C	2.73	106.02	101.62
14	AB	102	CRT	C27-C26-C25	-2.73	114.07	123.23
9	AA	101	BCL	C2B-C1B-NB	-2.73	107.67	109.50
9	B5	102	BCL	C2C-C3C-C4C	2.73	106.01	101.62
9	BO	102	BCL	C2C-C3C-C4C	2.73	106.01	101.62
9	BB	101	BCL	OBB-CAB-CBB	-2.73	113.48	120.12
9	A7	103	BCL	C2C-C3C-C4C	2.72	106.00	101.62
14	AS	104	CRT	C5-C6-C7	-2.72	121.84	125.94
9	BQ	104	BCL	C6-C5-C3	2.72	118.83	112.62
9	AP	101	BCL	C2B-C1B-NB	-2.72	107.68	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AL	303	BCL	C2C-C3C-C4C	2.72	105.99	101.62
14	BP	102	CRT	C13-C12-C11	2.72	122.48	118.09
14	BB	102	CRT	C34-C33-C35	2.72	122.48	118.09
9	AA	101	BCL	C2C-C3C-C4C	2.72	105.99	101.62
14	BW	103	CRT	C10-C9-C7	-2.72	123.36	127.29
9	A3	104	BCL	C1-O2A-CGA	2.72	124.90	117.00
9	AD	102	BCL	C2C-C3C-C4C	2.72	105.99	101.62
9	BQ	103	BCL	CMB-C2B-C1B	-2.72	124.29	128.46
9	AX	101	BCL	C2B-C1B-NB	-2.72	107.68	109.50
14	BN	102	CRT	C30-C28-C27	-2.72	114.80	118.98
9	A0	102	BCL	CMD-C2D-C3D	2.72	130.28	125.16
14	AG	102	CRT	C40-C38-C37	-2.71	107.32	110.81
9	BG	101	BCL	CAA-C2A-C1A	2.71	119.69	112.51
14	BV	102	CRT	C29-C28-C30	2.71	122.47	118.09
14	B2	102	CRT	C14-C15-C16	-2.71	114.15	123.23
9	AB	101	BCL	C2C-C3C-C4C	2.70	105.97	101.62
14	B5	103	CRT	C20-C19-C17	-2.70	123.38	127.29
9	BO	102	BCL	C4B-CHC-C1C	-2.70	124.76	130.12
9	B3	102	BCL	C2C-C3C-C4C	2.70	105.96	101.62
9	BL	301	BCL	C2A-C1A-CHA	2.70	128.79	123.87
9	A3	104	BCL	C2B-C1B-NB	-2.70	107.69	109.50
9	BP	101	BCL	C1-O2A-CGA	2.69	124.83	117.00
14	BB	102	CRT	C3-C1-C4	-2.69	107.35	110.81
9	AP	101	BCL	C4D-C3D-CAD	-2.69	104.74	108.05
9	B4	101	BCL	O2D-CGD-O1D	-2.69	118.39	123.79
9	BB	101	BCL	O2A-CGA-CBA	2.69	120.13	111.90
9	BY	102	BCL	C3A-C2A-C1A	2.69	106.07	101.70
9	B7	103	BCL	C2C-C3C-C4C	2.69	105.94	101.62
14	B2	102	CRT	C11-C12-C14	-2.69	114.84	118.98
9	BK	102	BCL	C2C-C3C-C4C	2.68	105.94	101.62
9	B8	101	BCL	C2C-C3C-C4C	2.68	105.94	101.62
14	B1	103	CRT	C29-C28-C30	2.68	122.43	118.09
9	B3	102	BCL	O2D-CGD-O1D	-2.68	118.40	123.79
9	BJ	101	BCL	O2A-CGA-O1A	-2.68	116.47	123.48
9	A8	101	BCL	CMA-C3A-C2A	-2.68	102.55	114.45
14	B2	102	CRT	C35-C33-C32	-2.68	114.85	118.98
9	AA	101	BCL	O2D-CGD-CBD	2.68	116.76	111.34
9	AN	101	BCL	C2A-C3A-C4A	2.68	106.23	101.89
14	AR	102	CRT	C29-C28-C30	2.68	122.42	118.09
11	AL	304	UQ8	C42-C43-C44	-2.68	116.88	127.72
9	AL	301	BCL	C2C-C3C-C4C	2.68	105.93	101.62
9	AM	402	BCL	C2C-C3C-C4C	2.68	105.93	101.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AW	101	BCL	C3A-C2A-C1A	2.68	106.05	101.70
9	A5	102	BCL	C2C-C3C-C4C	2.68	105.93	101.62
9	AS	103	BCL	C2C-C3C-C4C	2.68	105.93	101.62
14	BS	103	CRT	C13-C12-C11	2.68	122.41	118.09
14	BB	102	CRT	C27-C26-C25	-2.68	114.25	123.23
9	BD	102	BCL	CBA-CAA-C2A	2.68	120.49	113.95
9	BU	102	BCL	O2D-CGD-O1D	-2.68	118.42	123.79
9	AI	102	BCL	C2C-C3C-C4C	2.68	105.92	101.62
9	BD	102	BCL	CMD-C2D-C3D	2.67	130.20	125.16
14	BO	103	CRT	C3-C1-C4	-2.67	107.37	110.81
14	AW	102	CRT	C13-C12-C11	2.67	122.41	118.09
9	AT	101	BCL	C2B-C1B-NB	-2.67	107.71	109.50
9	AP	101	BCL	O2A-CGA-O1A	-2.67	116.50	123.48
14	BU	103	CRT	C40-C38-C37	-2.67	107.37	110.81
9	B1	102	BCL	O2D-CGD-O1D	-2.67	118.43	123.79
9	BI	102	BCL	C2C-C3C-C4C	2.67	105.92	101.62
14	BF	103	CRT	C35-C33-C32	-2.67	114.87	118.98
14	BB	102	CRT	C14-C15-C16	-2.67	114.28	123.23
9	AN	101	BCL	CAC-C3C-C4C	-2.67	106.67	112.58
9	BG	101	BCL	C4A-NA-C1A	2.67	110.14	106.38
14	BO	103	CRT	C29-C28-C30	2.67	122.40	118.09
14	AW	102	CRT	C40-C38-C37	-2.67	107.38	110.81
9	AK	102	BCL	CMB-C2B-C1B	-2.66	124.37	128.46
9	AT	101	BCL	C4A-NA-C1A	2.66	110.13	106.38
14	AA	102	CRT	C4-C5-C6	-2.66	120.60	124.96
9	AQ	102	BCL	C2C-C3C-C4C	2.66	105.90	101.62
9	A3	103	BCL	C2B-C1B-NB	-2.66	107.72	109.50
14	BP	102	CRT	C4-C5-C6	-2.66	120.61	124.96
14	BP	102	CRT	C30-C28-C27	-2.66	114.88	118.98
9	BS	102	BCL	C2C-C3C-C4C	2.66	105.90	101.62
9	AP	101	BCL	C1-O2A-CGA	2.66	124.73	117.00
9	AE	101	BCL	OBB-CAB-CBB	-2.66	113.64	120.12
9	A9	102	BCL	C2C-C3C-C4C	2.66	105.90	101.62
9	B3	102	BCL	C2A-C1A-CHA	2.66	128.72	123.87
9	AE	101	BCL	C2C-C3C-C4C	2.66	105.89	101.62
9	A3	104	BCL	C2C-C3C-C4C	2.66	105.89	101.62
9	B9	102	BCL	C2B-C1B-NB	-2.66	107.72	109.50
9	AX	101	BCL	C2A-C3A-C4A	2.66	106.19	101.89
13	AM	405	MQ8	C36-C37-C38	-2.65	122.07	127.81
14	B1	103	CRT	C13-C12-C11	2.65	122.38	118.09
9	A7	103	BCL	CMB-C2B-C1B	-2.65	124.39	128.46
9	BB	101	BCL	C4B-CHC-C1C	-2.65	124.86	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AE	101	BCL	CMD-C2D-C3D	2.65	130.15	125.16
9	BT	101	BCL	C2C-C3C-C4C	2.65	105.88	101.62
14	B7	102	CRT	C40-C38-C37	-2.65	107.40	110.81
9	BB	101	BCL	CHA-C1A-NA	-2.65	119.63	126.00
9	A2	101	BCL	O2D-CGD-CBD	2.65	116.69	111.34
14	AR	102	CRT	C13-C12-C11	2.65	122.36	118.09
9	B6	101	BCL	C2C-C3C-C4C	2.65	105.88	101.62
11	BL	304	UQ8	C20-C19-C21	2.64	119.40	115.39
9	B7	103	BCL	C2A-C1A-CHA	2.64	128.69	123.87
11	BL	304	UQ8	C40-C39-C41	2.64	119.40	115.39
9	B0	102	BCL	CBA-CAA-C2A	2.64	120.41	113.95
9	A5	102	BCL	C4A-NA-C1A	2.64	110.10	106.38
9	B6	101	BCL	O2D-CGD-O1D	-2.64	118.49	123.79
14	AT	102	CRT	C8-C7-C6	2.64	122.35	118.09
14	BW	103	CRT	C14-C15-C16	-2.64	114.38	123.23
14	BF	103	CRT	C5-C6-C7	2.64	129.92	125.94
9	AG	101	BCL	C2C-C3C-C4C	2.64	105.86	101.62
14	B7	102	CRT	C8-C7-C6	2.64	122.35	118.09
9	B8	101	BCL	O2A-CGA-O1A	-2.64	116.59	123.48
9	BK	102	BCL	CBA-CAA-C2A	2.63	120.39	113.95
9	BT	101	BCL	C2B-C1B-NB	-2.63	107.74	109.50
14	BF	103	CRT	C8-C7-C6	2.63	122.34	118.09
9	BO	102	BCL	CBA-CAA-C2A	2.63	120.39	113.95
9	BL	303	BCL	C2C-C3C-C4C	2.63	105.85	101.62
14	AP	102	CRT	C14-C15-C16	-2.63	114.40	123.23
11	BL	304	UQ8	C15-C14-C16	2.63	119.38	115.39
9	AJ	101	BCL	O2A-CGA-O1A	-2.63	116.61	123.48
9	A3	103	BCL	C2C-C3C-C4C	2.63	105.85	101.62
14	AJ	102	CRT	C29-C28-C30	2.63	122.34	118.09
15	AM	409	PEF	O3-C3-C2	2.63	115.71	108.80
14	BG	102	CRT	C36-C35-C33	-2.62	121.98	125.94
9	AJ	101	BCL	C2C-C3C-C4C	2.63	105.84	101.62
9	BV	101	BCL	O2A-CGA-CBA	2.63	119.94	111.90
14	AX	102	CRT	C8-C7-C9	-2.62	119.18	122.92
14	AP	102	CRT	C40-C38-C37	-2.62	107.44	110.81
13	AM	405	MQ8	C34-C33-C35	2.62	119.36	115.39
9	B7	103	BCL	O2D-CGD-O1D	-2.62	118.53	123.79
14	AP	102	CRT	C29-C28-C30	2.62	122.32	118.09
9	AT	101	BCL	CHA-C1A-NA	-2.62	119.71	126.00
9	A9	102	BCL	CMA-C3A-C2A	-2.62	102.84	114.45
11	BL	304	UQ8	C41-C42-C43	2.62	119.08	111.64
9	BI	102	BCL	CMD-C2D-C3D	2.62	130.09	125.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	B5	103	CRT	C4-C5-C6	-2.61	120.68	124.96
14	A5	103	CRT	C15-C14-C12	-2.61	123.51	127.29
9	B0	102	BCL	C2C-C3C-C4C	2.61	105.82	101.62
9	BE	101	BCL	CMB-C2B-C1B	-2.61	124.45	128.46
9	AO	102	BCL	C4D-C3D-CAD	-2.61	104.84	108.05
9	BW	102	BCL	CBA-CAA-C2A	2.61	120.33	113.95
9	A3	104	BCL	C2A-C3A-C4A	2.61	106.11	101.89
9	A6	101	BCL	C2B-C1B-NB	-2.61	107.76	109.50
14	B0	101	CRT	C35-C33-C32	-2.61	114.97	118.98
14	AB	102	CRT	C32-C31-C30	-2.61	114.48	123.23
9	BA	101	BCL	C2C-C3C-C4C	2.61	105.81	101.62
14	B1	103	CRT	C18-C17-C16	2.61	122.30	118.09
14	AP	102	CRT	C13-C12-C11	2.61	122.30	118.09
14	AJ	102	CRT	C35-C33-C32	-2.60	114.97	118.98
9	BF	102	BCL	C2C-C3C-C4C	2.60	105.81	101.62
9	BZ	101	BCL	C2B-C1B-NB	-2.60	107.76	109.50
14	AN	102	CRT	C34-C33-C35	2.60	122.29	118.09
14	BM	406	CRT	C26-C27-C28	-2.60	123.53	127.29
14	BU	103	CRT	C29-C28-C30	2.60	122.29	118.09
9	BQ	104	BCL	C2C-C3C-C4C	2.60	105.80	101.62
9	BN	101	BCL	CMD-C2D-C3D	2.60	130.05	125.16
9	AO	102	BCL	C2A-C1A-CHA	2.60	128.60	123.87
14	BB	102	CRT	C35-C33-C32	-2.59	114.98	118.98
14	B1	103	CRT	C27-C26-C25	-2.59	114.52	123.23
14	BO	103	CRT	C30-C28-C27	-2.59	114.98	118.98
14	AP	102	CRT	C27-C26-C25	-2.59	114.53	123.23
9	AK	102	BCL	C2C-C3C-C4C	2.59	105.79	101.62
9	AV	102	BCL	O2D-CGD-O1D	-2.59	118.59	123.79
14	AB	102	CRT	C13-C12-C11	2.59	122.28	118.09
9	A3	103	BCL	C4A-NA-C1A	2.59	110.03	106.38
14	AG	102	CRT	C29-C28-C30	2.59	122.27	118.09
14	A5	103	CRT	C29-C28-C30	2.59	122.27	118.09
9	BQ	103	BCL	C6-C5-C3	2.59	118.52	112.62
14	AX	102	CRT	C18-C17-C19	-2.59	119.23	122.92
14	AJ	102	CRT	C8-C7-C6	2.58	122.27	118.09
9	BQ	103	BCL	C4B-CHC-C1C	-2.58	125.00	130.12
14	AT	102	CRT	C20-C21-C22	-2.59	117.75	123.45
9	BG	101	BCL	O2D-CGD-O1D	-2.59	118.60	123.79
9	A0	102	BCL	C2C-C3C-C4C	2.59	105.78	101.62
14	BW	103	CRT	C40-C38-C37	-2.58	107.48	110.81
9	BV	101	BCL	O2A-CGA-O1A	-2.58	116.73	123.48
14	AJ	102	CRT	C34-C33-C35	2.58	122.26	118.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AO	102	BCL	CMB-C2B-C1B	-2.58	124.50	128.46
9	BY	102	BCL	C2C-C3C-C4C	2.58	105.77	101.62
9	A1	102	BCL	C2C-C3C-C4C	2.58	105.77	101.62
14	AM	406	CRT	C3-C1-C4	-2.58	107.49	110.81
14	A0	101	CRT	C5-C6-C7	-2.58	122.05	125.94
9	AX	101	BCL	CMD-C2D-C3D	2.58	130.02	125.16
14	AT	102	CRT	C29-C28-C30	2.58	122.25	118.09
7	BC	502	HEM	CBA-CAA-C2A	-2.58	108.34	112.63
9	AT	101	BCL	CMD-C2D-C3D	2.57	130.01	125.16
14	AJ	102	CRT	C40-C38-C37	-2.57	107.50	110.81
9	B8	101	BCL	C2B-C1B-NB	-2.57	107.78	109.50
7	AC	501	HEM	CHC-C1C-NC	2.57	127.31	124.38
9	AP	101	BCL	C4A-NA-C1A	2.57	110.01	106.38
14	BU	103	CRT	C20-C21-C22	-2.57	117.78	123.45
9	AW	101	BCL	OBD-CAD-C3D	2.57	133.35	128.15
7	AC	501	HEM	CBD-CAD-C3D	-2.57	108.77	114.37
14	AT	102	CRT	C13-C12-C11	2.57	122.24	118.09
9	BA	101	BCL	CMD-C2D-C3D	2.57	129.99	125.16
9	BA	101	BCL	O2D-CGD-O1D	-2.57	118.64	123.79
14	B1	103	CRT	C14-C15-C16	-2.57	114.62	123.23
14	A7	102	CRT	C40-C38-C37	-2.56	107.51	110.81
14	BV	102	CRT	C10-C9-C7	-2.56	123.58	127.29
9	BG	101	BCL	CMD-C2D-C3D	2.56	129.99	125.16
9	A5	102	BCL	CMA-C3A-C2A	-2.56	103.10	114.45
9	AK	102	BCL	C4A-NA-C1A	2.56	109.98	106.38
9	BE	101	BCL	C3A-C2A-C1A	2.56	105.86	101.70
14	AN	102	CRT	C18-C17-C16	2.55	122.22	118.09
15	BM	407	PEF	C3-C2-C1	-2.56	105.99	111.86
9	B8	101	BCL	CMD-C2D-C3D	2.55	129.97	125.16
9	BX	101	BCL	CHA-C1A-NA	-2.55	119.86	126.00
9	BX	101	BCL	C2D-C3D-CAD	2.55	145.35	134.94
9	AU	102	BCL	C4A-NA-C1A	2.55	109.97	106.38
7	BC	504	HEM	CMA-C3A-C4A	-2.55	124.55	128.46
10	AL	302	BPH	CBD-CHA-C1A	2.55	130.29	123.56
14	A0	101	CRT	C18-C17-C16	2.55	122.21	118.09
9	AP	101	BCL	O2A-CGA-CBA	2.55	119.70	111.90
14	BA	102	CRT	C3-C1-C4	-2.55	107.53	110.81
9	A8	101	BCL	C2A-C1A-CHA	2.55	128.51	123.87
14	AM	406	CRT	C5-C6-C7	-2.54	122.11	125.94
9	B2	101	BCL	C2A-C1A-CHA	2.54	128.50	123.87
14	B1	103	CRT	C8-C7-C9	-2.54	119.30	122.92
9	AR	101	BCL	CHA-C1A-NA	-2.54	119.89	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AY	102	BCL	C6-C5-C3	2.54	118.42	112.62
9	A2	101	BCL	C4B-CHC-C1C	-2.54	125.08	130.12
10	BL	302	BPH	CBD-CHA-C1A	2.54	130.27	123.56
14	B2	102	CRT	C1M-O1-C1	2.54	129.18	115.49
9	BG	101	BCL	O2A-CGA-O1A	-2.54	116.84	123.48
9	AS	103	BCL	C3A-C2A-C1A	2.54	105.83	101.70
9	B0	102	BCL	CMD-C2D-C3D	2.54	129.94	125.16
14	A0	101	CRT	C21-C20-C19	-2.54	117.86	123.45
9	AT	101	BCL	CAA-CBA-CGA	-2.54	105.77	113.24
9	BB	101	BCL	C4D-C3D-CAD	-2.54	104.93	108.05
14	BO	103	CRT	C13-C12-C11	2.53	122.19	118.09
9	AK	102	BCL	O2D-CGD-O1D	-2.53	118.70	123.79
14	B1	103	CRT	C30-C28-C27	-2.53	115.08	118.98
9	B9	102	BCL	C4A-NA-C1A	2.53	109.95	106.38
9	BG	101	BCL	C4B-CHC-C1C	-2.53	125.10	130.12
14	BS	103	CRT	C29-C28-C30	2.53	122.18	118.09
14	AG	102	CRT	C32-C31-C30	-2.53	114.74	123.23
14	B5	103	CRT	C8-C7-C6	2.53	122.18	118.09
14	B5	103	CRT	C32-C31-C30	-2.53	114.74	123.23
7	BC	502	HEM	CHC-C1C-NC	2.53	127.26	124.38
9	AR	101	BCL	C4A-NA-C1A	2.53	109.94	106.38
9	AE	101	BCL	C2B-C1B-NB	-2.53	107.81	109.50
9	BU	102	BCL	C2C-C3C-C4C	2.53	105.68	101.62
9	AI	102	BCL	C2B-C1B-NB	-2.52	107.81	109.50
11	AL	304	UQ8	C46-C44-C43	-2.52	114.44	122.62
9	AG	101	BCL	O2A-CGA-CBA	2.52	119.60	111.90
7	BC	504	HEM	C3B-C4B-NB	-2.52	112.20	114.00
14	AS	104	CRT	C4-C5-C6	-2.51	120.85	124.96
9	AJ	101	BCL	O2A-CGA-CBA	2.51	119.59	111.90
15	AM	409	PEF	C3-C2-C1	-2.51	106.09	111.86
14	AN	102	CRT	C10-C9-C7	-2.51	123.66	127.29
9	A2	101	BCL	C4A-NA-C1A	2.51	109.92	106.38
9	BQ	103	BCL	C4D-C3D-CAD	-2.51	104.97	108.05
9	AB	101	BCL	CBA-CAA-C2A	2.51	120.08	113.95
14	A5	103	CRT	C32-C31-C30	-2.51	114.82	123.23
9	BZ	101	BCL	C2C-C3C-C4C	2.51	105.65	101.62
14	B5	103	CRT	C29-C28-C30	2.51	122.14	118.09
9	BQ	103	BCL	C1D-C2D-C3D	-2.50	104.52	106.97
9	BI	102	BCL	C2A-C1A-CHA	2.51	128.44	123.87
9	BD	102	BCL	C1B-CHB-C4A	-2.50	125.16	130.12
15	AS	101	PEF	C3-C2-C1	-2.50	106.11	111.86
7	AC	504	HEM	CHC-C1C-NC	2.50	127.24	124.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	BN	102	CRT	C21-C20-C19	-2.50	117.94	123.45
9	A2	101	BCL	C2C-C3C-C4C	2.50	105.65	101.62
14	BM	406	CRT	C3-C1-C4	-2.50	107.59	110.81
9	AO	102	BCL	CHA-C1A-NA	-2.50	119.99	126.00
9	BB	101	BCL	O2D-CGD-O1D	-2.50	118.77	123.79
14	AR	102	CRT	C18-C17-C16	2.50	122.13	118.09
14	BF	103	CRT	C34-C33-C35	2.50	122.13	118.09
15	AM	407	PEF	C3-C2-C1	-2.50	106.12	111.86
9	BL	303	BCL	O2D-CGD-O1D	-2.50	118.78	123.79
9	AL	303	BCL	CMD-C2D-C3D	2.50	129.87	125.16
9	A1	102	BCL	CBA-CAA-C2A	2.50	120.06	113.95
9	BP	101	BCL	O2A-CGA-CBA	2.50	119.54	111.90
14	AR	102	CRT	C30-C28-C27	-2.50	115.14	118.98
9	AT	101	BCL	C1-O2A-CGA	2.50	124.26	117.00
9	AW	101	BCL	C2C-C3C-C4C	2.50	105.64	101.62
9	B4	101	BCL	C2A-C1A-CHA	2.50	128.42	123.87
9	BJ	101	BCL	O2D-CGD-O1D	-2.49	118.78	123.79
14	AB	102	CRT	C8-C7-C6	2.49	122.12	118.09
9	AI	102	BCL	O2D-CGD-O1D	-2.49	118.78	123.79
9	BZ	101	BCL	CMD-C2D-C3D	2.49	129.86	125.16
9	B8	101	BCL	CMA-C3A-C2A	-2.49	103.39	114.45
11	BL	304	UQ8	C25-C24-C26	2.49	119.17	115.39
9	AM	401	BCL	CAC-C3C-C4C	-2.49	107.05	112.58
9	AK	102	BCL	CMA-C3A-C2A	-2.49	103.40	114.45
11	AL	304	UQ8	C10-C9-C11	2.49	119.17	115.39
9	A0	102	BCL	CMA-C3A-C2A	-2.49	103.39	114.45
9	AX	101	BCL	C2C-C3C-C4C	2.49	105.63	101.62
9	BQ	104	BCL	C2B-C1B-NB	-2.49	107.83	109.50
14	BO	103	CRT	C32-C31-C30	-2.49	114.89	123.23
14	AN	102	CRT	C14-C15-C16	-2.49	114.89	123.23
9	BZ	101	BCL	C2A-C3A-C4A	2.49	105.92	101.89
9	BW	102	BCL	C3A-C2A-C1A	2.49	105.74	101.70
14	A2	102	CRT	C40-C38-C37	-2.49	107.61	110.81
15	BQ	101	PEF	C3-C2-C1	-2.48	106.15	111.86
14	BO	103	CRT	C18-C17-C16	2.48	122.10	118.09
9	B0	102	BCL	CHA-C1A-NA	-2.48	120.03	126.00
9	BD	102	BCL	C3C-C2C-C1C	2.48	105.91	101.89
14	BN	102	CRT	C34-C33-C35	2.48	122.10	118.09
14	A7	102	CRT	C13-C12-C11	2.48	122.10	118.09
15	AH	301	PEF	C3-C2-C1	-2.48	106.17	111.86
9	AN	101	BCL	CMD-C2D-C3D	2.48	129.83	125.16
9	A7	103	BCL	C6-C5-C3	2.48	118.28	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BK	102	BCL	C2A-C1A-CHA	2.48	128.39	123.87
7	AC	502	HEM	C2A-C1A-NA	2.48	113.18	109.73
7	BC	502	HEM	C3B-C4B-NB	-2.48	112.23	114.00
9	B7	103	BCL	O2A-C1-C2	2.47	113.78	108.12
9	BT	101	BCL	CHA-C1A-NA	-2.47	120.06	126.00
14	AP	102	CRT	C32-C31-C30	-2.47	114.93	123.23
14	AJ	102	CRT	C30-C28-C27	-2.47	115.17	118.98
9	A6	101	BCL	CMA-C3A-C2A	-2.47	103.49	114.45
14	B1	103	CRT	C16-C17-C19	-2.47	115.17	118.98
9	BW	102	BCL	CMD-C2D-C3D	2.47	129.82	125.16
9	BO	102	BCL	C2A-C1A-CHA	2.47	128.38	123.87
14	BA	102	CRT	C32-C31-C30	-2.47	114.95	123.23
9	A1	102	BCL	C4A-NA-C1A	2.47	109.86	106.38
9	BI	102	BCL	C3A-C2A-C1A	2.47	105.71	101.70
14	BU	103	CRT	C32-C31-C30	-2.47	114.95	123.23
9	BV	101	BCL	C2A-C1A-CHA	2.47	128.37	123.87
14	BG	102	CRT	C40-C38-C37	-2.47	107.64	110.81
9	AL	301	BCL	O2A-C1-C2	2.47	113.77	108.12
9	BQ	103	BCL	C2C-C3C-C4C	2.46	105.58	101.62
9	AB	101	BCL	C2B-C1B-NB	-2.46	107.85	109.50
9	B6	101	BCL	CMD-C2D-C3D	2.46	129.80	125.16
9	B1	102	BCL	CAA-C2A-C3A	-2.46	107.15	113.32
9	A0	102	BCL	C2B-C1B-NB	-2.46	107.85	109.50
9	AO	102	BCL	CMA-C3A-C2A	-2.46	103.53	114.45
14	A2	102	CRT	C13-C12-C11	2.46	122.07	118.09
9	BV	101	BCL	C2C-C3C-C4C	2.46	105.58	101.62
9	BV	101	BCL	CMD-C2D-C3D	2.46	129.80	125.16
7	AC	501	HEM	CAD-CBD-CGD	2.46	118.17	113.53
9	B4	101	BCL	CHA-C1A-NA	-2.46	120.09	126.00
9	B4	101	BCL	C1-O2A-CGA	2.46	124.15	117.00
9	B3	102	BCL	C4A-NA-C1A	2.46	109.85	106.38
9	BB	101	BCL	C1-O2A-CGA	2.46	124.15	117.00
14	AP	102	CRT	C30-C28-C27	-2.46	115.19	118.98
9	B7	103	BCL	C3A-C2A-C1A	2.46	105.70	101.70
14	A1	103	CRT	O1-C1-C4	2.46	112.49	106.07
14	BW	103	CRT	C4-C5-C6	-2.46	120.94	124.96
9	B6	101	BCL	C2B-C1B-NB	-2.46	107.86	109.50
14	A5	103	CRT	C8-C7-C6	2.46	122.06	118.09
9	BG	101	BCL	C2A-C1A-CHA	2.46	128.35	123.87
14	BU	103	CRT	C34-C33-C35	2.46	122.06	118.09
9	A7	103	BCL	C2A-C1A-CHA	2.46	128.35	123.87
9	AL	301	BCL	CMD-C2D-C3D	2.46	129.79	125.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	B5	102	BCL	C2A-C1A-CHA	2.45	128.34	123.87
7	BC	502	HEM	C2A-C1A-NA	2.45	113.14	109.73
13	AM	405	MQ8	C41-C42-C43	-2.45	122.51	127.81
14	AS	104	CRT	C18-C17-C16	2.45	122.05	118.09
14	AG	102	CRT	C8-C7-C6	2.45	122.05	118.09
9	B5	102	BCL	C4A-NA-C1A	2.45	109.83	106.38
13	AM	405	MQ8	C11-C12-C13	-2.45	122.62	126.76
9	A3	103	BCL	C2A-C1A-CHA	2.45	128.33	123.87
7	BC	504	HEM	C2A-C1A-NA	2.45	113.14	109.73
15	AM	407	PEF	O3-C30-O5	-2.45	113.51	121.58
9	B1	102	BCL	C6-C5-C3	2.45	118.21	112.62
15	AH	301	PEF	O3-C30-O5	-2.45	113.52	121.58
7	BC	501	HEM	C3B-C4B-NB	-2.45	112.25	114.00
9	AK	102	BCL	C2B-C1B-NB	-2.44	107.86	109.50
14	AA	102	CRT	C3-C1-C4	-2.44	107.67	110.81
14	BF	103	CRT	C18-C17-C16	2.44	122.04	118.09
9	AB	101	BCL	CMD-C2D-C3D	2.44	129.76	125.16
9	BI	102	BCL	C4A-NA-C1A	2.44	109.82	106.38
9	AE	101	BCL	C4A-NA-C1A	2.44	109.82	106.38
9	BV	101	BCL	CMA-C3A-C2A	-2.44	103.62	114.45
9	B9	102	BCL	CMD-C2D-C3D	2.44	129.76	125.16
14	BS	103	CRT	C8-C7-C6	2.44	122.03	118.09
9	BX	101	BCL	C2C-C3C-C4C	2.44	105.55	101.62
11	BL	304	UQ8	C35-C34-C36	2.44	119.09	115.39
9	AU	102	BCL	CAA-C2A-C3A	-2.44	107.21	113.32
14	B5	103	CRT	C40-C38-C37	-2.44	107.67	110.81
14	A7	102	CRT	C20-C19-C17	-2.44	123.76	127.29
9	BU	102	BCL	CMD-C2D-C3D	2.44	129.75	125.16
9	A8	101	BCL	CHA-C1A-NA	-2.44	120.15	126.00
14	BW	103	CRT	C8-C7-C6	2.43	122.02	118.09
9	AM	401	BCL	CMD-C2D-C3D	2.43	129.75	125.16
14	A5	103	CRT	C13-C12-C11	2.43	122.02	118.09
9	BP	101	BCL	O2A-CGA-O1A	-2.43	117.12	123.48
14	A5	103	CRT	C40-C38-C37	-2.43	107.68	110.81
9	B5	102	BCL	CMA-C3A-C2A	-2.43	103.66	114.45
14	AG	102	CRT	C13-C12-C11	2.43	122.02	118.09
9	B6	101	BCL	O2A-CGA-CBA	2.43	119.34	111.90
14	B2	102	CRT	C10-C9-C7	-2.43	123.78	127.29
14	BS	103	CRT	C11-C12-C14	-2.43	115.24	118.98
9	A3	104	BCL	CMA-C3A-C2A	-2.43	103.67	114.45
14	BB	102	CRT	C38-C37-C36	-2.43	106.92	113.41
13	BM	405	MQ8	C19-C18-C20	2.43	119.08	115.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	BP	102	CRT	C32-C31-C30	-2.43	115.08	123.23
9	AG	101	BCL	CMD-C2D-C3D	2.43	129.73	125.16
9	AT	101	BCL	C2A-C3A-C4A	2.43	105.82	101.89
9	AJ	101	BCL	CMD-C2D-C3D	2.42	129.73	125.16
7	AC	503	HEM	C2A-C1A-NA	2.42	113.10	109.73
9	A5	102	BCL	O2D-CGD-O1D	-2.42	118.92	123.79
14	BW	103	CRT	C20-C19-C17	-2.42	123.79	127.29
9	BS	102	BCL	O2D-CGD-O1D	-2.42	118.93	123.79
14	AS	104	CRT	C36-C35-C33	2.42	129.59	125.94
9	A3	103	BCL	CHA-C1A-NA	-2.42	120.19	126.00
9	AW	101	BCL	C2B-C1B-NB	-2.42	107.88	109.50
9	B2	101	BCL	O2D-CGD-O1D	-2.42	118.94	123.79
14	B2	102	CRT	C34-C33-C35	2.42	122.00	118.09
14	B7	102	CRT	C32-C31-C30	-2.42	115.12	123.23
9	BS	102	BCL	CMB-C2B-C3B	2.42	129.72	125.16
9	B4	101	BCL	C2A-C3A-C4A	2.42	105.80	101.89
15	BM	407	PEF	O3-C30-O5	-2.42	113.61	121.58
13	AM	405	MQ8	C26-C27-C28	-2.42	122.59	127.81
9	AG	101	BCL	C4A-NA-C1A	2.41	109.78	106.38
9	AJ	101	BCL	C4A-NA-C1A	2.42	109.78	106.38
14	A7	102	CRT	C29-C28-C30	2.42	121.99	118.09
9	A0	102	BCL	C2A-C3A-C4A	2.42	105.80	101.89
9	AX	101	BCL	C4A-NA-C1A	2.41	109.78	106.38
14	BO	103	CRT	C14-C15-C16	-2.41	115.14	123.23
9	BL	301	BCL	CMD-C2D-C3D	2.41	129.70	125.16
14	AX	102	CRT	C15-C16-C17	-2.41	119.46	126.37
14	AR	102	CRT	C14-C15-C16	-2.41	115.14	123.23
9	B6	101	BCL	CAA-CBA-CGA	-2.41	106.14	113.24
9	AW	101	BCL	O2D-CGD-O1D	-2.41	118.95	123.79
9	AS	103	BCL	C2A-C1A-CHA	2.41	128.26	123.87
9	B0	102	BCL	C2B-C1B-NB	-2.41	107.89	109.50
9	B0	102	BCL	CAC-C3C-C4C	-2.41	107.24	112.58
14	AG	102	CRT	C30-C28-C27	-2.41	115.27	118.98
9	B4	101	BCL	CMD-C2D-C3D	2.41	129.70	125.16
9	A9	102	BCL	C4A-NA-C1A	2.41	109.77	106.38
7	AC	503	HEM	CMD-C2D-C3D	2.41	131.20	125.63
9	A2	101	BCL	C6-C5-C3	2.40	118.11	112.62
9	AY	102	BCL	CMA-C3A-C2A	-2.40	103.79	114.45
9	AJ	101	BCL	C2A-C1A-CHA	2.40	128.25	123.87
9	BB	101	BCL	CHB-C1B-NB	2.40	128.78	124.70
14	AA	102	CRT	C32-C31-C30	-2.40	115.17	123.23
9	AD	102	BCL	C4A-NA-C1A	2.40	109.77	106.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	AJ	102	CRT	C13-C12-C11	2.40	121.97	118.09
14	AR	102	CRT	C3-C1-C4	-2.40	107.72	110.81
9	BK	102	BCL	CMD-C2D-C3D	2.40	129.68	125.16
9	BG	101	BCL	C2B-C1B-NB	-2.40	107.90	109.50
9	A0	102	BCL	CHA-C1A-NA	-2.40	120.24	126.00
9	BK	102	BCL	O2D-CGD-O1D	-2.40	118.98	123.79
9	BF	102	BCL	CHB-C1B-NB	2.40	128.77	124.70
10	AL	302	BPH	OBB-CAB-CBB	-2.40	114.28	120.12
14	BG	102	CRT	C27-C26-C25	-2.39	115.19	123.23
14	AJ	102	CRT	C18-C17-C16	2.39	121.96	118.09
9	AQ	102	BCL	C4D-C3D-CAD	-2.39	105.11	108.05
14	AT	102	CRT	C14-C15-C16	-2.39	115.20	123.23
9	BE	101	BCL	C6-C5-C3	2.39	118.08	112.62
14	B7	102	CRT	C1M-O1-C1	2.39	128.39	115.49
9	A0	102	BCL	C4A-NA-C1A	2.39	109.75	106.38
14	B5	103	CRT	C21-C22-C23	-2.39	123.83	127.29
14	AR	102	CRT	C32-C31-C30	-2.39	115.21	123.23
9	AT	101	BCL	O2D-CGD-O1D	-2.39	118.99	123.79
9	BM	402	BCL	C2B-C1B-NB	-2.39	107.90	109.50
9	B6	101	BCL	C2A-C1A-CHA	2.39	128.23	123.87
11	AL	304	UQ8	C7-C8-C9	-2.39	122.72	126.76
14	AA	102	CRT	C29-C28-C30	2.39	121.95	118.09
9	AW	101	BCL	C4D-C3D-CAD	-2.39	105.11	108.05
9	BE	101	BCL	O2A-CGA-O1A	-2.39	117.23	123.48
13	AM	405	MQ8	C15-C16-C17	-2.39	104.85	111.64
14	A2	102	CRT	C14-C15-C16	-2.39	115.22	123.23
9	A6	101	BCL	C2A-C1A-CHA	2.39	128.22	123.87
13	BM	405	MQ8	C24-C23-C25	2.39	119.01	115.39
9	AB	101	BCL	O2D-CGD-O1D	-2.39	119.00	123.79
9	AK	102	BCL	CHA-C1A-NA	-2.39	120.27	126.00
14	AW	102	CRT	C20-C19-C17	-2.38	123.84	127.29
14	B7	102	CRT	C29-C28-C30	2.38	121.94	118.09
9	BI	102	BCL	O2D-CGD-O1D	-2.39	119.00	123.79
9	BB	101	BCL	CAC-C3C-C4C	-2.38	107.29	112.58
9	B7	103	BCL	C4A-NA-C1A	2.38	109.74	106.38
13	BM	405	MQ8	C41-C42-C43	-2.38	122.66	127.81
7	AC	502	HEM	C3B-C4B-NB	-2.38	112.30	114.00
9	A5	102	BCL	C2B-C1B-NB	-2.38	107.91	109.50
14	BP	102	CRT	C40-C38-C37	-2.38	107.75	110.81
14	BA	102	CRT	C40-C38-C37	-2.38	107.75	110.81
9	A6	101	BCL	CMD-C2D-C3D	2.38	129.64	125.16
14	BM	406	CRT	C4-C5-C6	-2.38	121.07	124.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	B2	101	BCL	CMD-C2D-C3D	2.38	129.64	125.16
14	B1	103	CRT	C24-C23-C25	2.38	121.93	118.09
14	AM	406	CRT	C4-C5-C6	-2.38	121.07	124.96
9	B9	102	BCL	O2D-CGD-O1D	-2.38	119.02	123.79
9	A6	101	BCL	CHA-C1A-NA	-2.37	120.30	126.00
9	AG	101	BCL	O2D-CGD-O1D	-2.37	119.02	123.79
14	AW	102	CRT	C14-C15-C16	-2.37	115.27	123.23
9	BM	402	BCL	O2D-CGD-O1D	-2.37	119.03	123.79
10	AL	302	BPH	C6-C5-C3	2.37	118.03	112.62
14	A1	103	CRT	C3-C1-C4	-2.37	107.76	110.81
9	BM	402	BCL	CMD-C2D-C3D	2.37	129.62	125.16
7	AC	504	HEM	C2A-C1A-NA	2.37	113.02	109.73
14	A0	101	CRT	C13-C12-C11	2.36	121.91	118.09
14	A0	101	CRT	C14-C15-C16	-2.36	115.30	123.23
9	AD	102	BCL	C3A-C2A-C1A	2.36	105.54	101.70
9	A7	103	BCL	CHA-C1A-NA	-2.36	120.33	126.00
14	BG	102	CRT	C8-C7-C6	2.36	121.91	118.09
9	BQ	104	BCL	CHA-C1A-NA	-2.36	120.34	126.00
9	A9	102	BCL	CHA-C1A-NA	-2.36	120.34	126.00
9	B9	102	BCL	CMA-C3A-C2A	-2.36	104.00	114.45
9	B6	101	BCL	C4A-NA-C1A	2.35	109.70	106.38
9	BX	101	BCL	C2B-C1B-NB	-2.35	107.92	109.50
9	AV	102	BCL	C2B-C1B-NB	-2.35	107.93	109.50
9	BE	101	BCL	C2B-C1B-NB	-2.35	107.93	109.50
14	AA	102	CRT	C40-C38-C37	-2.35	107.78	110.81
9	BM	401	BCL	CMD-C2D-C3D	2.35	129.59	125.16
9	BT	101	BCL	CHC-C4B-NB	2.35	128.69	124.70
14	AJ	102	CRT	C14-C15-C16	-2.35	115.35	123.23
9	AT	101	BCL	CMA-C3A-C2A	-2.35	104.03	114.45
14	AX	102	CRT	C11-C12-C14	2.35	122.59	118.98
14	BU	103	CRT	C30-C28-C27	-2.35	115.36	118.98
9	BK	102	BCL	C3A-C2A-C1A	2.35	105.51	101.70
9	BL	301	BCL	O2A-C1-C2	2.35	113.49	108.12
9	BL	303	BCL	CMD-C2D-C3D	2.35	129.58	125.16
9	A5	102	BCL	CHA-C1A-NA	-2.35	120.36	126.00
7	BC	502	HEM	CMD-C2D-C3D	2.34	131.06	125.63
9	BZ	101	BCL	O2D-CGD-O1D	-2.34	119.08	123.79
9	BG	101	BCL	C2C-C3C-C4C	2.34	105.39	101.62
14	BP	102	CRT	C2-C1-C4	-2.34	107.79	110.81
14	BP	102	CRT	C18-C17-C16	2.34	121.87	118.09
14	AB	102	CRT	C4-C5-C6	-2.34	121.13	124.96
9	B6	101	BCL	O2A-CGA-O1A	-2.34	117.36	123.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AV	102	BCL	CMA-C3A-C2A	-2.34	104.08	114.45
11	BL	304	UQ8	C42-C43-C44	-2.34	118.27	127.72
14	AN	102	CRT	C16-C17-C19	-2.34	115.38	118.98
9	B7	103	BCL	CMD-C2D-C3D	2.34	129.57	125.16
9	A0	102	BCL	C6-C5-C3	2.34	117.96	112.62
11	BL	304	UQ8	C7-C8-C9	-2.33	122.81	126.76
14	AS	104	CRT	C29-C28-C30	2.33	121.86	118.09
9	BQ	104	BCL	C4A-NA-C1A	2.33	109.67	106.38
9	AD	102	BCL	CMD-C2D-C3D	2.33	129.56	125.16
9	AB	101	BCL	CHA-C1A-NA	-2.33	120.40	126.00
14	AT	102	CRT	C24-C23-C25	2.33	121.86	118.09
14	BM	406	CRT	C15-C14-C12	-2.33	123.92	127.29
9	A3	104	BCL	CHA-C1A-NA	-2.33	120.40	126.00
9	A3	104	BCL	CAC-C3C-C4C	-2.33	107.41	112.58
9	BI	102	BCL	C1B-CHB-C4A	-2.33	125.50	130.12
14	B1	103	CRT	C32-C31-C30	-2.33	115.41	123.23
9	AG	101	BCL	C2B-C1B-NB	-2.33	107.94	109.50
9	BU	102	BCL	C2A-C1A-CHA	2.33	128.12	123.87
9	B3	102	BCL	CHA-C1A-NA	-2.33	120.40	126.00
9	A7	103	BCL	C4A-NA-C1A	2.33	109.66	106.38
13	BM	405	MQ8	C29-C28-C30	2.33	118.92	115.39
14	AB	102	CRT	C5-C6-C7	-2.33	122.43	125.94
9	B7	103	BCL	CMA-C3A-C2A	-2.33	104.13	114.45
9	B4	101	BCL	C2B-C1B-NB	-2.33	107.94	109.50
14	B0	101	CRT	C18-C17-C19	-2.32	119.61	122.92
9	BP	101	BCL	C4D-C3D-CAD	-2.32	105.19	108.05
9	A3	103	BCL	CMA-C3A-C2A	-2.32	104.14	114.45
9	BU	102	BCL	C4A-NA-C1A	2.32	109.66	106.38
9	AX	101	BCL	C3C-C2C-C1C	2.32	105.65	101.89
9	BE	101	BCL	O2D-CGD-O1D	-2.32	119.13	123.79
9	AE	101	BCL	CHA-C1A-NA	-2.32	120.42	126.00
14	A5	103	CRT	C30-C28-C27	-2.32	115.40	118.98
9	B4	101	BCL	CAC-C3C-C4C	-2.32	107.43	112.58
9	A5	102	BCL	CAA-C2A-C3A	-2.32	107.50	113.32
9	AO	102	BCL	OBD-CAD-C3D	2.32	132.84	128.15
9	A1	102	BCL	CAA-C2A-C3A	-2.32	107.51	113.32
9	BX	101	BCL	C1-O2A-CGA	2.32	123.75	117.00
9	AF	102	BCL	C3A-C2A-C1A	2.32	105.47	101.70
14	BG	102	CRT	C21-C22-C23	-2.32	123.93	127.29
9	A5	102	BCL	C2A-C1A-CHA	2.32	128.10	123.87
14	AP	102	CRT	C18-C17-C16	2.32	121.84	118.09
11	AL	304	UQ8	C35-C34-C33	-2.32	118.90	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AE	101	BCL	O2A-CGA-CBA	2.32	118.99	111.90
9	BQ	104	BCL	C2A-C1A-CHA	2.32	128.09	123.87
9	A1	102	BCL	C2B-C1B-NB	-2.32	107.95	109.50
10	AM	403	BPH	C2D-C3D-CAD	2.32	144.39	134.94
9	A1	102	BCL	C3C-C2C-C1C	2.32	105.64	101.89
9	A9	102	BCL	C2A-C1A-CHA	2.32	128.09	123.87
9	BF	102	BCL	C3C-C2C-C1C	2.31	105.64	101.89
14	AM	406	CRT	C36-C35-C33	-2.31	122.45	125.94
14	BA	102	CRT	C29-C28-C30	2.31	121.83	118.09
9	B0	102	BCL	O2D-CGD-O1D	-2.31	119.15	123.79
10	BL	302	BPH	C6-C5-C3	2.31	117.90	112.62
14	AP	102	CRT	C24-C23-C25	2.31	121.83	118.09
9	A6	101	BCL	C6-C5-C3	2.31	117.89	112.62
9	AM	402	BCL	O2D-CGD-O1D	-2.31	119.15	123.79
14	BN	102	CRT	C8-C7-C6	2.31	121.82	118.09
14	BW	103	CRT	C29-C28-C30	2.31	121.82	118.09
9	AT	101	BCL	O2A-CGA-O1A	-2.31	117.45	123.48
9	AN	101	BCL	C1-O2A-CGA	2.31	123.70	117.00
9	BG	101	BCL	C2A-C3A-C4A	2.31	105.62	101.89
7	BC	501	HEM	CBD-CAD-C3D	-2.30	109.35	114.37
9	AG	101	BCL	C2A-C1A-CHA	2.30	128.07	123.87
13	BM	405	MQ8	C34-C33-C35	2.30	118.89	115.39
9	AL	303	BCL	CBA-CAA-C2A	-2.30	108.31	113.95
9	AV	102	BCL	CMD-C2D-C3D	2.30	129.50	125.16
9	BM	402	BCL	C4A-NA-C1A	2.30	109.63	106.38
14	AP	102	CRT	C3-C1-C2	-2.30	105.55	110.29
9	AZ	101	BCL	CAC-C3C-C4C	-2.30	107.48	112.58
10	BM	403	BPH	C2D-C3D-CAD	2.30	144.32	134.94
9	A7	103	BCL	C4D-C3D-CAD	-2.30	105.23	108.05
9	BZ	101	BCL	CHA-C1A-NA	-2.30	120.48	126.00
9	AL	303	BCL	O2D-CGD-O1D	-2.30	119.17	123.79
7	AC	504	HEM	C4D-ND-C1D	2.30	107.49	105.11
9	AN	101	BCL	CMA-C3A-C2A	-2.30	104.25	114.45
9	BV	101	BCL	C3A-C2A-C1A	2.30	105.44	101.70
9	AB	101	BCL	C4A-NA-C1A	2.30	109.62	106.38
9	AQ	102	BCL	C4A-NA-C1A	2.30	109.62	106.38
9	AE	101	BCL	O2D-CGD-O1D	-2.30	119.18	123.79
9	AO	102	BCL	C2B-C1B-NB	-2.30	107.96	109.50
9	A0	102	BCL	C2A-C1A-CHA	2.30	128.06	123.87
9	BP	101	BCL	CMB-C2B-C3B	2.30	129.49	125.16
14	BV	102	CRT	C3-C1-C4	-2.29	107.86	110.81
9	AS	103	BCL	C4A-NA-C1A	2.30	109.62	106.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	BU	103	CRT	C21-C22-C23	-2.29	123.97	127.29
14	BA	102	CRT	C13-C12-C11	2.29	121.80	118.09
14	AW	102	CRT	C29-C28-C30	2.29	121.80	118.09
14	BV	102	CRT	C18-C17-C16	2.29	121.79	118.09
9	A2	101	BCL	CMD-C2D-C3D	2.29	129.47	125.16
14	AA	102	CRT	C34-C33-C35	2.29	121.79	118.09
9	AU	102	BCL	C6-C5-C3	2.29	117.84	112.62
9	B1	102	BCL	C2B-C1B-NB	-2.29	107.97	109.50
9	BS	102	BCL	CMD-C2D-C3D	2.29	129.47	125.16
9	A6	101	BCL	C4A-NA-C1A	2.28	109.60	106.38
13	BM	405	MQ8	C26-C27-C28	-2.28	122.87	127.81
14	BG	102	CRT	C13-C12-C11	2.28	121.78	118.09
9	AJ	101	BCL	C2B-C1B-NB	-2.28	107.97	109.50
9	B6	101	BCL	C1-O2A-CGA	2.28	123.64	117.00
9	AL	301	BCL	C4A-NA-C1A	2.28	109.60	106.38
11	BL	304	UQ8	C10-C9-C11	2.28	118.85	115.39
9	AP	101	BCL	C2A-C1A-CHA	2.28	128.03	123.87
14	AA	102	CRT	C13-C12-C11	2.28	121.77	118.09
9	AD	102	BCL	O2D-CGD-O1D	-2.28	119.21	123.79
14	AP	102	CRT	C6-C7-C9	-2.28	115.47	118.98
9	A7	103	BCL	C3A-C2A-C1A	2.28	105.40	101.70
9	BP	101	BCL	C2B-C3B-CAB	2.28	135.21	127.43
9	AA	101	BCL	C2A-C1A-CHA	2.28	128.02	123.87
9	B2	101	BCL	CMB-C2B-C3B	2.28	129.45	125.16
9	AZ	101	BCL	CHA-C1A-NA	-2.28	120.53	126.00
9	B5	102	BCL	O2D-CGD-O1D	-2.28	119.22	123.79
9	A3	103	BCL	CMD-C2D-C3D	2.28	129.45	125.16
9	AQ	102	BCL	CMA-C3A-C2A	-2.27	104.36	114.45
9	AP	101	BCL	C2A-C3A-C4A	2.27	105.57	101.89
9	BV	101	BCL	C4A-NA-C1A	2.27	109.58	106.38
9	BF	102	BCL	C1B-CHB-C4A	-2.27	125.62	130.12
14	AW	102	CRT	C2-C1-C4	-2.27	107.89	110.81
9	AL	301	BCL	C3A-C2A-C1A	2.27	105.39	101.70
9	AT	101	BCL	C4D-C3D-CAD	-2.27	105.26	108.05
9	BV	101	BCL	O2D-CGD-O1D	-2.27	119.23	123.79
14	AB	102	CRT	C24-C23-C25	2.27	121.75	118.09
9	A9	102	BCL	CMD-C2D-C3D	2.27	129.43	125.16
9	BO	102	BCL	CHA-C1A-NA	-2.27	120.55	126.00
9	B3	102	BCL	CMA-C3A-C2A	-2.27	104.39	114.45
9	B5	102	BCL	CHA-C1A-NA	-2.27	120.55	126.00
9	AS	103	BCL	O2D-CGD-O1D	-2.27	119.24	123.79
9	AQ	102	BCL	CHA-C1A-NA	-2.27	120.56	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	AC	501	HEM	C2A-C1A-NA	2.27	112.88	109.73
9	BN	101	BCL	C2A-C3A-C4A	2.26	105.56	101.89
9	BF	102	BCL	C4B-CHC-C1C	-2.26	125.64	130.12
9	AV	102	BCL	C3C-C2C-C1C	2.26	105.55	101.89
9	AA	101	BCL	C3A-C2A-C1A	2.26	105.38	101.70
14	BV	102	CRT	C32-C31-C30	-2.26	115.64	123.23
9	A3	104	BCL	CMD-C2D-C3D	2.26	129.42	125.16
9	AN	101	BCL	O2D-CGD-O1D	-2.26	119.25	123.79
9	B8	101	BCL	C3A-C2A-C1A	2.26	105.38	101.70
14	BN	102	CRT	C40-C38-C37	-2.26	107.90	110.81
14	BV	102	CRT	C35-C33-C32	-2.26	115.50	118.98
14	AW	102	CRT	C24-C23-C25	2.26	121.74	118.09
9	A9	102	BCL	CAC-C3C-C4C	-2.26	107.57	112.58
9	BT	101	BCL	CAC-C3C-C4C	-2.26	107.57	112.58
9	AG	101	BCL	C1-O2A-CGA	2.26	123.56	117.00
9	AA	101	BCL	CMD-C2D-C3D	2.26	129.41	125.16
9	BL	301	BCL	C4A-NA-C1A	2.26	109.56	106.38
10	BL	302	BPH	C2D-C3D-CAD	2.26	144.14	134.94
9	AM	401	BCL	CMA-C3A-C2A	-2.26	104.44	114.45
9	BU	102	BCL	C1D-C2D-C3D	-2.26	104.76	106.97
9	AD	102	BCL	C2B-C1B-NB	-2.26	107.99	109.50
7	AC	502	HEM	CMD-C2D-C3D	2.26	130.85	125.63
9	BQ	103	BCL	O1D-CGD-CBD	-2.25	119.84	124.45
9	BT	101	BCL	O2D-CGD-O1D	-2.25	119.27	123.79
9	BY	102	BCL	C3C-C2C-C1C	2.25	105.54	101.89
14	BV	102	CRT	C30-C28-C27	-2.25	115.51	118.98
9	BZ	101	BCL	C4A-NA-C1A	2.25	109.56	106.38
14	AG	102	CRT	C34-C33-C35	2.25	121.73	118.09
14	BN	102	CRT	C13-C12-C11	2.25	121.72	118.09
14	AW	102	CRT	C26-C27-C28	-2.25	124.04	127.29
14	AX	102	CRT	C32-C31-C30	-2.25	115.68	123.23
14	BS	103	CRT	C9-C10-C11	-2.25	115.69	123.23
14	BS	103	CRT	C32-C31-C30	-2.25	115.69	123.23
9	AM	402	BCL	CMD-C2D-C3D	2.25	129.40	125.16
9	AA	101	BCL	C4A-NA-C1A	2.24	109.54	106.38
9	B8	101	BCL	CHA-C1A-NA	-2.24	120.61	126.00
14	A2	102	CRT	C29-C28-C30	2.24	121.72	118.09
14	AW	102	CRT	C21-C22-C23	-2.24	124.05	127.29
9	AG	101	BCL	C3C-C2C-C1C	2.24	105.52	101.89
9	BO	102	BCL	O1D-CGD-CBD	-2.24	119.87	124.45
9	AV	102	BCL	CMB-C2B-C3B	2.24	129.38	125.16
9	BZ	101	BCL	C2A-C1A-CHA	2.24	127.96	123.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	A0	102	BCL	CAC-C3C-C4C	-2.24	107.61	112.58
14	BS	103	CRT	C14-C15-C16	-2.24	115.71	123.23
14	AN	102	CRT	C35-C33-C32	-2.24	115.53	118.98
9	BP	101	BCL	C1D-C2D-C3D	-2.24	104.78	106.97
9	BA	101	BCL	C3A-C2A-C1A	2.24	105.34	101.70
9	AQ	102	BCL	CBA-CAA-C2A	2.24	119.42	113.95
14	BV	102	CRT	C40-C38-C37	-2.24	107.93	110.81
9	BQ	104	BCL	C2B-C3B-CAB	2.24	135.06	127.43
9	B9	102	BCL	CHA-C1A-NA	-2.23	120.63	126.00
9	BF	102	BCL	CMD-C2D-C3D	2.23	129.37	125.16
9	BK	102	BCL	C4A-NA-C1A	2.23	109.53	106.38
9	A8	101	BCL	CMD-C2D-C3D	2.23	129.37	125.16
9	A1	102	BCL	CMD-C2D-C3D	2.23	129.37	125.16
9	AZ	101	BCL	C2C-C3C-C4C	2.23	105.21	101.62
9	AN	101	BCL	C2B-C1B-NB	-2.23	108.01	109.50
14	BS	103	CRT	C20-C21-C22	-2.23	118.54	123.45
9	BV	101	BCL	CAA-CBA-CGA	-2.23	106.67	113.24
9	AF	102	BCL	O2D-CGD-O1D	-2.23	119.31	123.79
14	BV	102	CRT	C13-C12-C11	2.23	121.69	118.09
9	B6	101	BCL	CHA-C1A-NA	-2.23	120.64	126.00
7	BC	501	HEM	C2A-C1A-NA	2.23	112.83	109.73
14	AT	102	CRT	C11-C12-C14	-2.23	115.55	118.98
9	AJ	101	BCL	C3C-C2C-C1C	2.23	105.49	101.89
14	BV	102	CRT	C21-C22-C23	-2.23	124.07	127.29
7	BC	504	HEM	C4D-ND-C1D	2.23	107.42	105.11
9	B3	102	BCL	CMD-C2D-C3D	2.23	129.36	125.16
9	BN	101	BCL	O2D-CGD-O1D	-2.22	119.32	123.79
9	BF	102	BCL	C2A-C1A-NA	-2.22	108.49	111.33
9	BU	102	BCL	C3C-C2C-C1C	2.22	105.49	101.89
14	AP	102	CRT	C8-C7-C6	2.22	121.68	118.09
9	A6	101	BCL	CAC-C3C-C4C	-2.22	107.65	112.58
10	BM	403	BPH	C3A-C2A-C1A	-2.22	99.03	101.90
9	BP	101	BCL	CHA-C1A-NA	-2.22	120.66	126.00
9	B4	101	BCL	C4A-NA-C1A	2.22	109.51	106.38
14	A2	102	CRT	C34-C33-C35	2.22	121.68	118.09
9	AW	101	BCL	C2A-C1A-CHA	2.22	127.92	123.87
9	AW	101	BCL	CMA-C3A-C2A	-2.22	104.60	114.45
13	BM	405	MQ8	C39-C38-C40	2.22	118.76	115.39
9	BY	102	BCL	C4A-NA-C1A	2.22	109.51	106.38
10	AM	403	BPH	C4D-C3D-C2D	2.22	109.42	106.98
14	BA	102	CRT	C27-C26-C25	-2.22	115.78	123.23
9	AP	101	BCL	CHA-C1A-NA	-2.22	120.67	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BT	101	BCL	C4A-NA-C1A	2.22	109.51	106.38
14	B1	103	CRT	C34-C33-C35	2.22	121.67	118.09
9	AV	102	BCL	C2A-C3A-C4A	2.22	105.48	101.89
9	AB	101	BCL	O2A-CGA-O1A	-2.22	117.68	123.48
9	BX	101	BCL	C4A-NA-C1A	2.22	109.50	106.38
14	AB	102	CRT	C2-C1-C4	-2.22	107.96	110.81
14	AT	102	CRT	C32-C31-C30	-2.22	115.80	123.23
14	AB	102	CRT	C34-C33-C35	2.21	121.67	118.09
9	BE	101	BCL	CHA-C1A-NA	-2.21	120.68	126.00
9	B1	102	BCL	CMA-C3A-C2A	-2.22	104.62	114.45
9	BG	101	BCL	CBA-CAA-C2A	-2.22	108.53	113.95
14	BP	102	CRT	C24-C23-C25	2.22	121.67	118.09
14	B0	101	CRT	C36-C35-C33	-2.21	122.61	125.94
9	B6	101	BCL	C2A-C3A-C4A	2.21	105.47	101.89
9	AQ	102	BCL	CMD-C2D-C3D	2.21	129.33	125.16
14	B5	103	CRT	C30-C28-C27	-2.21	115.57	118.98
7	BC	504	HEM	CHC-C1C-NC	2.21	126.90	124.38
7	BC	501	HEM	CMD-C2D-C3D	2.21	130.75	125.63
14	BU	103	CRT	C35-C33-C32	-2.21	115.58	118.98
9	BL	301	BCL	CAA-C2A-C3A	-2.21	107.79	113.32
9	A2	101	BCL	CMA-C3A-C2A	-2.21	104.66	114.45
7	BC	503	HEM	CMD-C2D-C3D	2.21	130.74	125.63
9	AP	101	BCL	C1D-C2D-C3D	-2.21	104.81	106.97
9	AY	102	BCL	C4D-C3D-CAD	-2.21	105.34	108.05
14	BO	103	CRT	C16-C17-C19	-2.21	115.58	118.98
10	AL	302	BPH	C4-C3-C5	-2.21	112.04	115.39
9	A1	102	BCL	CHA-C1A-NA	-2.21	120.70	126.00
9	AU	102	BCL	O2D-CGD-O1D	-2.20	119.36	123.79
9	B9	102	BCL	C3A-C2A-C1A	2.20	105.28	101.70
14	AR	102	CRT	C16-C17-C19	-2.20	115.59	118.98
9	A2	101	BCL	C2A-C3A-C4A	2.20	105.46	101.89
14	BS	103	CRT	C24-C23-C25	2.20	121.65	118.09
14	AN	102	CRT	C8-C7-C6	2.20	121.65	118.09
9	A3	103	BCL	C3C-C2C-C1C	2.20	105.45	101.89
9	A9	102	BCL	C4D-C3D-CAD	-2.20	105.34	108.05
9	AL	301	BCL	CHA-C1A-NA	-2.20	120.71	126.00
9	BF	102	BCL	O2D-CGD-O1D	-2.20	119.37	123.79
14	B0	101	CRT	C21-C22-C23	-2.20	124.11	127.29
9	AQ	102	BCL	O2D-CGD-O1D	-2.20	119.37	123.79
9	AA	101	BCL	CMA-C3A-C2A	-2.20	104.70	114.45
9	A5	102	BCL	C4D-C3D-CAD	-2.20	105.35	108.05
9	BX	101	BCL	CMA-C3A-C2A	-2.20	104.70	114.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BD	102	BCL	C1D-C2D-C3D	-2.20	104.82	106.97
14	BO	103	CRT	C34-C33-C35	2.20	121.64	118.09
9	BS	102	BCL	C4A-NA-C1A	2.20	109.48	106.38
14	AN	102	CRT	C27-C26-C25	-2.20	115.86	123.23
9	A1	102	BCL	CMA-C3A-C2A	-2.19	104.71	114.45
9	AZ	101	BCL	CMA-C3A-C2A	-2.19	104.71	114.45
9	B6	101	BCL	CAC-C3C-C4C	-2.19	107.72	112.58
9	AL	303	BCL	C2A-C3A-C4A	2.19	105.44	101.89
9	BU	102	BCL	CAA-C2A-C1A	2.19	118.32	112.51
14	AP	102	CRT	C9-C10-C11	-2.19	115.88	123.23
14	AN	102	CRT	C13-C12-C11	2.19	121.63	118.09
14	AG	102	CRT	C27-C26-C25	-2.19	115.88	123.23
9	AM	401	BCL	CBA-CAA-C2A	-2.19	108.59	113.95
9	BW	102	BCL	C4D-C3D-CAD	-2.19	105.36	108.05
9	BS	102	BCL	C2B-C3B-CAB	2.19	134.90	127.43
9	AV	102	BCL	CHA-C1A-NA	-2.19	120.75	126.00
9	AI	102	BCL	C3C-C2C-C1C	2.19	105.43	101.89
11	BL	304	UQ8	C37-C38-C39	-2.19	123.08	127.81
9	BA	101	BCL	C1B-CHB-C4A	-2.19	125.79	130.12
9	BK	102	BCL	C3C-C2C-C1C	2.18	105.43	101.89
14	B2	102	CRT	C29-C28-C30	2.18	121.62	118.09
11	BL	304	UQ8	C12-C13-C14	-2.18	123.09	127.81
9	B1	102	BCL	C2A-C1A-CHA	2.18	127.85	123.87
7	BC	503	HEM	C2A-C1A-NA	2.18	112.77	109.73
9	BO	102	BCL	CMD-C2D-C3D	2.18	129.27	125.16
11	BL	304	UQ8	C22-C23-C24	-2.18	123.09	127.81
14	AN	102	CRT	C40-C38-C37	-2.18	108.01	110.81
9	A8	101	BCL	CAC-C3C-C4C	-2.18	107.75	112.58
14	AR	102	CRT	C34-C33-C35	2.18	121.61	118.09
9	BM	402	BCL	CHB-C1B-NB	2.18	128.40	124.70
9	BZ	101	BCL	CMA-C3A-C2A	-2.18	104.80	114.45
14	A0	101	CRT	C6-C7-C9	2.18	122.32	118.98
14	A2	102	CRT	C35-C33-C32	-2.18	115.63	118.98
9	AI	102	BCL	O2A-C1-C2	2.17	113.10	108.12
9	BD	102	BCL	CHC-C1C-NC	2.17	127.41	124.38
9	AI	102	BCL	C3A-C2A-C1A	2.17	105.23	101.70
9	BA	101	BCL	C2A-C1A-CHA	2.17	127.83	123.87
9	BM	401	BCL	CAC-C3C-C4C	-2.17	107.76	112.58
7	AC	504	HEM	CMD-C2D-C3D	2.17	130.66	125.63
9	AL	303	BCL	C2B-C1B-NB	-2.17	108.05	109.50
9	BG	101	BCL	CHB-C1B-NB	2.17	128.39	124.70
9	BJ	101	BCL	C2A-C1A-CHA	2.17	127.82	123.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BT	101	BCL	C3C-C2C-C1C	2.17	105.40	101.89
9	B2	101	BCL	O2A-CGA-O1A	-2.17	117.81	123.48
9	BB	101	BCL	C2C-C3C-C4C	2.17	105.11	101.62
9	B0	102	BCL	CMA-C3A-C2A	-2.17	104.83	114.45
14	A2	102	CRT	C32-C31-C30	-2.17	115.96	123.23
9	AP	101	BCL	CAC-C3C-C4C	-2.17	107.77	112.58
9	A3	104	BCL	C4A-NA-C1A	2.17	109.43	106.38
9	AD	102	BCL	C3C-C2C-C1C	2.16	105.39	101.89
9	AT	101	BCL	CAA-C2A-C3A	-2.16	107.91	113.32
9	BQ	104	BCL	CMB-C2B-C3B	2.16	129.24	125.16
7	AC	503	HEM	CHC-C1C-NC	2.16	126.85	124.38
9	AY	102	BCL	CHA-C1A-NA	-2.16	120.81	126.00
9	BL	301	BCL	CHA-C1A-NA	-2.16	120.81	126.00
14	AW	102	CRT	C10-C9-C7	-2.16	124.17	127.29
9	A5	102	BCL	CAC-C3C-C4C	-2.16	107.79	112.58
14	B5	103	CRT	C13-C12-C11	2.16	121.58	118.09
9	BB	101	BCL	OBD-CAD-C3D	2.16	132.51	128.15
9	B0	102	BCL	C2A-C3A-C4A	2.16	105.38	101.89
14	A2	102	CRT	C21-C22-C23	-2.16	124.17	127.29
9	AS	103	BCL	C3C-C2C-C1C	2.16	105.38	101.89
9	BD	102	BCL	CHB-C1B-NB	2.16	128.36	124.70
14	AR	102	CRT	C39-C38-C37	-2.16	108.03	110.81
14	AG	102	CRT	C21-C20-C19	-2.16	118.70	123.45
9	AT	101	BCL	CHB-C1B-NB	2.16	128.36	124.70
9	A5	102	BCL	CMD-C2D-C3D	2.16	129.22	125.16
9	AX	101	BCL	CHA-C1A-NA	-2.15	120.82	126.00
9	BT	101	BCL	CMB-C2B-C3B	2.15	129.22	125.16
14	BB	102	CRT	C37-C36-C35	-2.15	121.44	124.96
9	AQ	102	BCL	C1D-C2D-C3D	-2.15	104.86	106.97
9	AE	101	BCL	CMA-C3A-C2A	-2.15	104.90	114.45
14	BW	103	CRT	C24-C23-C25	2.15	121.57	118.09
9	AO	102	BCL	O2D-CGD-O1D	-2.15	119.47	123.79
7	BC	501	HEM	C1A-C2A-C3A	-2.15	104.69	106.92
9	BA	101	BCL	CMA-C3A-C2A	-2.15	104.91	114.45
9	A2	101	BCL	CHA-C1A-NA	-2.15	120.83	126.00
9	BW	102	BCL	OBD-CAD-C3D	2.15	132.50	128.15
14	BB	102	CRT	C13-C12-C11	2.15	121.56	118.09
9	BQ	103	BCL	C1B-CHB-C4A	-2.15	125.86	130.12
9	AV	102	BCL	C4A-NA-C1A	2.15	109.41	106.38
9	AI	102	BCL	CMA-C3A-C2A	-2.15	104.92	114.45
9	BM	402	BCL	CMA-C3A-C2A	-2.15	104.92	114.45
9	A2	101	BCL	CBA-CAA-C2A	2.15	119.20	113.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	BG	102	CRT	C34-C33-C35	2.15	121.56	118.09
9	AT	101	BCL	CMB-C2B-C3B	2.14	129.20	125.16
14	B2	102	CRT	C32-C31-C30	-2.14	116.04	123.23
9	BS	102	BCL	C4B-C3B-CAB	-2.14	117.70	127.09
9	BN	101	BCL	C2C-C3C-C4C	2.14	105.06	101.62
14	AS	104	CRT	C13-C12-C11	2.14	121.55	118.09
14	AG	102	CRT	C18-C17-C16	2.14	121.55	118.09
9	BM	402	BCL	C6-C5-C3	2.14	117.51	112.62
9	B1	102	BCL	C4A-NA-C1A	2.14	109.40	106.38
9	AU	102	BCL	C4D-C3D-CAD	-2.14	105.42	108.05
9	BL	303	BCL	CAC-C3C-C4C	-2.14	107.84	112.58
9	B7	103	BCL	CHA-C1A-NA	-2.14	120.86	126.00
14	B1	103	CRT	C11-C12-C14	-2.14	115.69	118.98
14	BU	103	CRT	C15-C16-C17	-2.14	120.24	126.37
9	AB	101	BCL	CMA-C3A-C2A	-2.13	104.98	114.45
14	AT	102	CRT	C9-C10-C11	-2.13	116.07	123.23
7	BC	504	HEM	CMD-C2D-C3D	2.13	130.57	125.63
9	BW	102	BCL	CMB-C2B-C3B	2.13	129.18	125.16
9	AL	301	BCL	OBD-CAD-C3D	2.14	132.47	128.15
9	AI	102	BCL	CMD-C2D-C3D	2.13	129.18	125.16
9	BJ	101	BCL	C1-O2A-CGA	2.13	123.20	117.00
9	BF	102	BCL	CMB-C2B-C3B	2.13	129.18	125.16
7	BC	501	HEM	CBA-CAA-C2A	-2.13	109.08	112.63
7	BC	501	HEM	CHC-C1C-NC	2.13	126.81	124.38
9	BL	303	BCL	CBA-CAA-C2A	-2.13	108.74	113.95
9	AJ	101	BCL	CHA-C1A-NA	-2.13	120.88	126.00
9	B0	102	BCL	C4A-NA-C1A	2.13	109.38	106.38
9	BQ	104	BCL	OBD-CAD-C3D	2.13	132.46	128.15
14	A7	102	CRT	C24-C23-C25	2.13	121.53	118.09
9	B1	102	BCL	C1D-C2D-C3D	-2.13	104.89	106.97
13	BM	405	MQ8	C30-C31-C32	-2.13	105.59	111.64
9	BS	102	BCL	C3A-C2A-C1A	2.13	105.16	101.70
9	AR	101	BCL	CMA-C3A-C2A	-2.13	105.01	114.45
14	BN	102	CRT	C18-C17-C16	2.13	121.53	118.09
9	BB	101	BCL	CMA-C3A-C2A	-2.13	105.02	114.45
14	AA	102	CRT	C2-C1-C4	-2.12	108.08	110.81
14	B7	102	CRT	C35-C33-C32	-2.12	115.71	118.98
14	B7	102	CRT	C34-C33-C35	2.13	121.52	118.09
9	A3	103	BCL	C4D-C3D-CAD	-2.12	105.44	108.05
10	BL	302	BPH	CMB-C2B-C1B	-2.12	125.24	128.49
9	B5	102	BCL	C3C-C2C-C1C	2.12	105.33	101.89
9	A1	102	BCL	C6-C5-C3	2.12	117.47	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	AM	405	MQ8	C31-C32-C33	-2.12	123.22	127.81
14	AB	102	CRT	C10-C9-C7	-2.12	124.22	127.29
9	AF	102	BCL	CMA-C3A-C2A	-2.12	105.04	114.45
9	BT	101	BCL	C1B-CHB-C4A	-2.12	125.92	130.12
9	B1	102	BCL	CHA-C1A-NA	-2.12	120.90	126.00
7	AC	501	HEM	CMD-C2D-C3D	2.12	130.54	125.63
14	BG	102	CRT	C18-C17-C16	2.12	121.52	118.09
9	BI	102	BCL	C3C-C2C-C1C	2.12	105.32	101.89
9	BN	101	BCL	C4A-NA-C1A	2.12	109.36	106.38
9	AY	102	BCL	OBD-CAD-C3D	2.12	132.43	128.15
14	AM	406	CRT	C13-C12-C11	2.12	121.51	118.09
9	B4	101	BCL	CMA-C3A-C2A	-2.12	105.06	114.45
9	AD	102	BCL	O1D-CGD-CBD	-2.12	120.12	124.45
9	AA	101	BCL	C3C-C2C-C1C	2.12	105.31	101.89
9	B2	101	BCL	CMA-C3A-C2A	-2.11	105.07	114.45
9	AS	103	BCL	CMB-C2B-C3B	2.12	129.15	125.16
9	AN	101	BCL	C4A-NA-C1A	2.11	109.36	106.38
14	AS	104	CRT	C16-C17-C19	-2.11	115.72	118.98
9	BZ	101	BCL	CMB-C2B-C3B	2.11	129.14	125.16
9	A1	102	BCL	C4D-C3D-CAD	-2.11	105.46	108.05
9	AL	301	BCL	C3C-C2C-C1C	2.11	105.31	101.89
14	BO	103	CRT	C27-C26-C25	-2.11	116.15	123.23
9	BQ	104	BCL	C3C-C2C-C1C	2.11	105.31	101.89
9	AS	103	BCL	CHB-C1B-NB	2.11	128.29	124.70
9	AG	101	BCL	CMA-C3A-C2A	-2.11	105.11	114.45
9	AG	101	BCL	O2A-CGA-O1A	-2.11	117.97	123.48
9	AU	102	BCL	CMD-C2D-C3D	2.11	129.13	125.16
14	AA	102	CRT	C21-C22-C23	-2.11	124.24	127.29
14	A0	101	CRT	O1-C1-C4	2.11	111.58	106.07
10	BL	302	BPH	C4D-C3D-C2D	2.11	109.30	106.98
9	A6	101	BCL	C2A-C3A-C4A	2.10	105.30	101.89
9	AV	102	BCL	O2A-CGA-O1A	-2.10	117.98	123.48
14	AN	102	CRT	C11-C12-C14	-2.10	115.74	118.98
14	AW	102	CRT	C8-C7-C6	2.10	121.49	118.09
14	AG	102	CRT	C24-C23-C25	2.10	121.49	118.09
9	BL	303	BCL	C2A-C3A-C4A	2.10	105.29	101.89
9	AK	102	BCL	C4D-C3D-CAD	-2.10	105.47	108.05
9	BL	301	BCL	O2D-CGD-CBD	2.10	115.59	111.34
9	AU	102	BCL	CMA-C3A-C2A	-2.10	105.13	114.45
9	BW	102	BCL	C2A-C1A-CHA	2.10	127.70	123.87
9	AE	101	BCL	C3C-C2C-C1C	2.10	105.29	101.89
9	B2	101	BCL	CAC-C3C-C4C	-2.10	107.92	112.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AZ	101	BCL	C1B-CHB-C4A	-2.10	125.96	130.12
14	A2	102	CRT	O1-C1-C4	2.10	111.56	106.07
9	AX	101	BCL	CMA-C3A-C2A	-2.10	105.14	114.45
9	AG	101	BCL	CHA-C1A-NA	-2.10	120.96	126.00
9	BL	303	BCL	CHB-C1B-NB	2.10	128.26	124.70
9	B3	102	BCL	C3C-C2C-C1C	2.10	105.29	101.89
9	B9	102	BCL	CMB-C2B-C3B	2.10	129.11	125.16
9	B6	101	BCL	C3C-C2C-C1C	2.10	105.28	101.89
9	BO	102	BCL	C4A-NA-C1A	2.10	109.33	106.38
7	BC	502	HEM	C1A-C2A-C3A	-2.09	104.75	106.92
9	BQ	104	BCL	O2D-CGD-O1D	-2.10	119.58	123.79
9	B6	101	BCL	CMA-C3A-C2A	-2.10	105.15	114.45
9	AN	101	BCL	CHA-C1A-NA	-2.10	120.97	126.00
9	AD	102	BCL	CMA-C3A-C2A	-2.10	105.16	114.45
9	BN	101	BCL	CMA-C3A-C2A	-2.09	105.17	114.45
9	AM	402	BCL	C2B-C1B-NB	-2.09	108.10	109.50
9	AM	402	BCL	CAC-C3C-C4C	-2.09	107.94	112.58
9	AY	102	BCL	C4A-NA-C1A	2.09	109.33	106.38
9	BY	102	BCL	CAA-C2A-C1A	2.09	118.06	112.51
9	BN	101	BCL	C2A-C1A-CHA	2.09	127.68	123.87
14	AR	102	CRT	C27-C26-C25	-2.09	116.22	123.23
9	AY	102	BCL	CMD-C2D-C3D	2.09	129.10	125.16
9	AF	102	BCL	C3C-C2C-C1C	2.09	105.27	101.89
9	A8	101	BCL	O2D-CGD-O1D	-2.09	119.59	123.79
9	B7	103	BCL	C3C-C2C-C1C	2.09	105.27	101.89
9	AL	303	BCL	CAA-CBA-CGA	2.09	119.41	113.24
14	BO	103	CRT	C8-C7-C9	-2.09	119.94	122.92
14	BN	102	CRT	C27-C26-C25	-2.09	116.22	123.23
9	AJ	101	BCL	CMA-C3A-C2A	-2.09	105.18	114.45
9	BM	401	BCL	CMA-C3A-C2A	-2.09	105.18	114.45
14	A5	103	CRT	C24-C23-C25	2.09	121.47	118.09
9	BV	101	BCL	C1-O2A-CGA	2.09	123.07	117.00
9	BV	101	BCL	CAC-C3C-C4C	-2.09	107.95	112.58
9	B9	102	BCL	C3C-C2C-C1C	2.09	105.27	101.89
9	BL	301	BCL	CAC-C3C-C4C	-2.09	107.96	112.58
9	AU	102	BCL	O1D-CGD-CBD	-2.09	120.19	124.45
9	BT	101	BCL	CMA-C3A-C2A	-2.08	105.20	114.45
9	AV	102	BCL	CAC-C3C-C4C	-2.08	107.96	112.58
9	AO	102	BCL	CMD-C2D-C3D	2.08	129.09	125.16
14	BA	102	CRT	C21-C22-C23	-2.08	124.28	127.29
9	AL	303	BCL	CMA-C3A-C2A	-2.08	105.22	114.45
9	BW	102	BCL	C1D-C2D-C3D	-2.08	104.93	106.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	B0	102	BCL	C1-O2A-CGA	2.08	123.05	117.00
9	A9	102	BCL	C3C-C2C-C1C	2.08	105.26	101.89
14	BF	103	CRT	C30-C28-C27	-2.08	115.78	118.98
9	AM	402	BCL	C4A-NA-C1A	2.08	109.31	106.38
9	AV	102	BCL	CHB-C1B-NB	2.08	128.23	124.70
9	AF	102	BCL	C4A-NA-C1A	2.08	109.31	106.38
10	AL	302	BPH	CMD-C2D-C3D	2.08	129.08	125.16
9	B2	101	BCL	CHA-C1A-NA	-2.08	121.01	126.00
9	BP	101	BCL	CHB-C1B-NB	2.08	128.23	124.70
14	AS	104	CRT	C14-C15-C16	-2.08	116.26	123.23
9	BW	102	BCL	CMA-C3A-C2A	-2.08	105.23	114.45
9	AU	102	BCL	CHA-C1A-NA	-2.08	121.01	126.00
9	BZ	101	BCL	C4B-C3B-CAB	-2.08	117.99	127.09
9	BZ	101	BCL	CAC-C3C-C4C	-2.08	107.97	112.58
9	BL	301	BCL	C3A-C2A-C1A	2.07	105.07	101.70
9	B8	101	BCL	C4A-NA-C1A	2.08	109.31	106.38
14	AB	102	CRT	C3-C1-C4	-2.07	108.14	110.81
7	BC	503	HEM	CHC-C1C-NC	2.07	126.74	124.38
9	AK	102	BCL	CAC-C3C-C4C	-2.07	107.99	112.58
9	B5	102	BCL	CMD-C2D-C3D	2.07	129.06	125.16
9	AM	402	BCL	C1D-C2D-C3D	-2.07	104.94	106.97
9	AU	102	BCL	C2A-C3A-C4A	2.07	105.24	101.89
14	BM	406	CRT	C24-C23-C25	2.07	121.43	118.09
14	A7	102	CRT	C14-C15-C16	-2.07	116.29	123.23
9	BM	401	BCL	CMB-C2B-C3B	2.07	129.05	125.16
9	B8	101	BCL	CAC-C3C-C4C	-2.07	108.00	112.58
14	A5	103	CRT	C21-C20-C19	-2.07	118.89	123.45
9	A0	102	BCL	C3C-C2C-C1C	2.07	105.24	101.89
14	B0	101	CRT	C31-C30-C28	-2.06	120.45	126.37
9	AF	102	BCL	C2A-C1A-CHA	2.07	127.64	123.87
9	AS	103	BCL	CMD-C2D-C3D	2.07	129.05	125.16
14	BS	103	CRT	C27-C26-C25	-2.06	116.31	123.23
10	BM	403	BPH	C4D-C3D-C2D	2.06	109.25	106.98
9	AW	101	BCL	CMD-C2D-C3D	2.06	129.05	125.16
14	BG	102	CRT	C21-C20-C19	-2.06	118.91	123.45
9	BE	101	BCL	C4A-NA-C1A	2.06	109.28	106.38
14	AG	102	CRT	C20-C19-C17	-2.06	124.31	127.29
10	BL	302	BPH	C4-C3-C5	-2.06	112.26	115.39
9	AW	101	BCL	CHA-C1A-NA	-2.06	121.04	126.00
9	BO	102	BCL	CHB-C1B-NB	2.06	128.21	124.70
14	BP	102	CRT	C16-C17-C19	-2.06	115.80	118.98
9	AM	402	BCL	CMA-C3A-C2A	-2.06	105.31	114.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	BV	101	BCL	CHB-C1B-NB	2.06	128.20	124.70
9	BJ	101	BCL	CHB-C1B-NB	2.06	128.20	124.70
14	B1	103	CRT	C35-C33-C32	-2.06	115.81	118.98
9	BP	101	BCL	O2D-CGD-O1D	-2.06	119.66	123.79
14	AP	102	CRT	C21-C20-C19	-2.06	118.92	123.45
9	BD	102	BCL	CMB-C2B-C3B	2.06	129.03	125.16
9	A3	104	BCL	C3C-C2C-C1C	2.06	105.22	101.89
14	A5	103	CRT	C27-C26-C25	-2.06	116.33	123.23
14	AJ	102	CRT	C16-C17-C19	-2.05	115.81	118.98
9	BQ	103	BCL	C3C-C2C-C1C	2.05	105.22	101.89
14	B2	102	CRT	C39-C38-C37	-2.05	108.17	110.81
9	B3	102	BCL	CMB-C2B-C3B	2.05	129.03	125.16
9	BN	101	BCL	C3C-C2C-C1C	2.05	105.21	101.89
9	B6	101	BCL	CMB-C2B-C3B	2.05	129.03	125.16
9	AR	101	BCL	CMD-C2D-C3D	2.05	129.03	125.16
14	BS	103	CRT	C30-C28-C27	-2.05	115.82	118.98
9	AU	102	BCL	C2B-C1B-NB	-2.05	108.13	109.50
14	AA	102	CRT	C24-C23-C25	2.05	121.40	118.09
9	BT	101	BCL	C2A-C3A-C4A	2.05	105.21	101.89
14	BA	102	CRT	C8-C7-C6	2.05	121.40	118.09
9	AM	401	BCL	C1B-CHB-C4A	-2.05	126.06	130.12
14	AX	102	CRT	C40-C38-C37	-2.05	108.17	110.81
9	AZ	101	BCL	C4A-NA-C1A	2.05	109.27	106.38
9	A7	103	BCL	CMD-C2D-C3D	2.05	129.02	125.16
9	AL	303	BCL	C4A-NA-C1A	2.05	109.27	106.38
9	BI	102	BCL	OBD-CAD-C3D	2.05	132.29	128.15
9	BF	102	BCL	OBD-CAD-C3D	2.05	132.29	128.15
9	A7	103	BCL	C3C-C2C-C1C	2.05	105.20	101.89
14	AG	102	CRT	C14-C15-C16	-2.05	116.36	123.23
9	BU	102	BCL	C3A-C2A-C1A	2.05	105.03	101.70
14	B0	101	CRT	C26-C25-C23	-2.04	120.51	126.37
9	AX	101	BCL	CMB-C2B-C3B	2.04	129.01	125.16
14	AA	102	CRT	C30-C28-C27	-2.04	115.83	118.98
7	AC	502	HEM	C4D-ND-C1D	2.04	107.23	105.11
9	A7	103	BCL	O2D-CGD-O1D	-2.04	119.69	123.79
14	BM	406	CRT	C13-C12-C11	2.04	121.39	118.09
9	BG	101	BCL	C1B-CHB-C4A	-2.04	126.08	130.12
9	A5	102	BCL	C3C-C2C-C1C	2.04	105.19	101.89
10	BM	403	BPH	CBD-CHA-C1A	2.04	128.94	123.56
11	BL	304	UQ8	C4M-O4-C4	-2.04	108.86	116.29
9	BL	301	BCL	CHB-C1B-NB	2.04	128.16	124.70
9	BA	101	BCL	CMB-C2B-C3B	2.04	129.00	125.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	AG	102	CRT	C11-C12-C14	-2.04	115.84	118.98
9	BM	401	BCL	OBD-CAD-C3D	2.04	132.27	128.15
14	AA	102	CRT	C8-C7-C6	2.04	121.38	118.09
9	B1	102	BCL	CBA-CAA-C2A	2.04	118.93	113.95
14	BB	102	CRT	C10-C9-C7	-2.03	124.35	127.29
10	BM	403	BPH	C1-C2-C3	2.03	129.76	126.23
14	BF	103	CRT	C13-C12-C11	2.03	121.38	118.09
9	B0	102	BCL	CMB-C2B-C3B	2.04	129.00	125.16
9	BB	101	BCL	CMD-C2D-C1D	-2.03	122.14	126.16
9	BU	102	BCL	O1D-CGD-CBD	-2.03	120.29	124.45
9	AY	102	BCL	C1D-C2D-C3D	-2.03	104.98	106.97
14	AT	102	CRT	C27-C26-C25	-2.03	116.41	123.23
9	BY	102	BCL	CMA-C3A-C2A	-2.03	105.44	114.45
9	AP	101	BCL	CBA-CAA-C2A	2.03	118.92	113.95
9	BM	401	BCL	CHB-C1B-NB	2.03	128.15	124.70
9	AX	101	BCL	CBA-CAA-C2A	2.03	118.91	113.95
14	AW	102	CRT	C34-C33-C35	2.03	121.37	118.09
11	AL	304	UQ8	C25-C24-C26	2.03	118.47	115.39
14	B5	103	CRT	C24-C23-C25	2.03	121.37	118.09
9	AW	101	BCL	C1D-C2D-C3D	-2.03	104.98	106.97
11	AL	304	UQ8	C4M-O4-C4	-2.03	108.89	116.29
9	AL	301	BCL	CMA-C3A-C2A	-2.03	105.44	114.45
9	AI	102	BCL	C4A-NA-C1A	2.03	109.24	106.38
7	AC	502	HEM	C1A-C2A-C3A	-2.03	104.82	106.92
9	AM	401	BCL	OBD-CAD-C3D	2.03	132.25	128.15
9	BW	102	BCL	C4A-NA-C1A	2.03	109.23	106.38
9	BS	102	BCL	CHB-C1B-NB	2.03	128.14	124.70
9	BP	101	BCL	CMA-C3A-C2A	-2.02	105.47	114.45
14	AB	102	CRT	C39-C38-C37	-2.02	108.21	110.81
9	AU	102	BCL	C3C-C2C-C1C	2.02	105.17	101.89
9	AL	303	BCL	C3C-C2C-C1C	2.02	105.17	101.89
14	A7	102	CRT	C32-C31-C30	-2.02	116.44	123.23
14	BA	102	CRT	C24-C23-C25	2.02	121.36	118.09
9	AM	402	BCL	CHB-C1B-NB	2.02	128.13	124.70
9	AY	102	BCL	C2A-C1A-CHA	2.02	127.56	123.87
14	A1	103	CRT	C27-C26-C25	-2.02	116.44	123.23
14	BW	103	CRT	C11-C12-C14	-2.02	115.86	118.98
9	B5	102	BCL	CHB-C1B-NB	2.02	128.14	124.70
14	BG	102	CRT	C24-C23-C25	2.02	121.35	118.09
14	BF	103	CRT	C24-C23-C25	2.02	121.36	118.09
14	B7	102	CRT	C13-C12-C11	2.02	121.36	118.09
9	BJ	101	BCL	C1B-CHB-C4A	-2.02	126.12	130.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	AM	405	MQ8	C14-C13-C15	2.02	118.45	115.39
14	B2	102	CRT	C40-C38-C37	-2.02	108.21	110.81
9	BE	101	BCL	CAC-C3C-C4C	-2.02	108.11	112.58
14	BW	103	CRT	C3-C1-C2	-2.02	106.14	110.29
9	B2	101	BCL	C4D-C3D-CAD	-2.02	105.57	108.05
9	A7	103	BCL	OBD-CAD-C3D	2.02	132.22	128.15
14	AW	102	CRT	C21-C20-C19	-2.02	119.01	123.45
9	AP	101	BCL	C2B-C3B-CAB	2.02	134.31	127.43
9	BT	101	BCL	CBA-CAA-C2A	2.01	118.87	113.95
9	BT	101	BCL	C4D-C3D-CAD	-2.01	105.58	108.05
14	AX	102	CRT	C20-C21-C22	-2.01	119.01	123.45
11	AL	304	UQ8	C27-C28-C29	-2.01	123.45	127.81
9	AN	101	BCL	C1B-CHB-C4A	-2.01	126.13	130.12
9	B9	102	BCL	O1D-CGD-CBD	-2.01	120.33	124.45
9	BE	101	BCL	CHB-C1B-NB	2.01	128.12	124.70
9	A2	101	BCL	C2B-C1B-NB	-2.01	108.15	109.50
11	AL	304	UQ8	C22-C23-C24	-2.01	123.46	127.81
9	AL	301	BCL	CAA-C2A-C3A	-2.01	108.28	113.32
9	AK	102	BCL	C3C-C2C-C1C	2.01	105.14	101.89
9	AG	101	BCL	CMB-C2B-C3B	2.01	128.94	125.16
9	BP	101	BCL	CAA-CBA-CGA	-2.01	107.32	113.24
9	BY	102	BCL	C2A-C1A-CHA	2.01	127.53	123.87
9	BL	303	BCL	C4A-NA-C1A	2.01	109.21	106.38
9	B4	101	BCL	CHB-C1B-NB	2.01	128.11	124.70
9	BQ	103	BCL	CBA-CAA-C2A	2.01	118.86	113.95
14	AW	102	CRT	C18-C17-C16	2.01	121.33	118.09
9	A5	102	BCL	C6-C5-C3	2.01	117.20	112.62
9	AF	102	BCL	CMD-C2D-C3D	2.01	128.94	125.16
9	BE	101	BCL	O2A-CGA-CBA	2.01	118.04	111.90
14	BW	103	CRT	C21-C22-C23	-2.01	124.39	127.29
9	B2	101	BCL	C4A-NA-C1A	2.01	109.21	106.38
9	BS	102	BCL	C3C-C2C-C1C	2.01	105.14	101.89
9	B4	101	BCL	CMB-C2B-C3B	2.01	128.94	125.16
9	BJ	101	BCL	C4D-C3D-CAD	-2.00	105.59	108.05
9	BP	101	BCL	C4B-C3B-CAB	-2.00	118.31	127.09
14	BM	406	CRT	C21-C22-C23	-2.00	124.39	127.29
9	BM	402	BCL	C2A-C1A-CHA	2.00	127.52	123.87
14	A7	102	CRT	C11-C12-C14	-2.00	115.89	118.98
14	B2	102	CRT	C27-C26-C25	-2.00	116.50	123.23
14	BU	103	CRT	C2-C1-C4	-2.00	108.23	110.81
9	AS	103	BCL	CHA-C1A-NA	-2.00	121.19	126.00
9	BZ	101	BCL	CHB-C1B-NB	2.00	128.10	124.70

All (8) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
10	BM	403	BPH	C8
10	BM	403	BPH	C13
10	BL	302	BPH	C8
10	BL	302	BPH	C13
10	AL	302	BPH	C8
10	AL	302	BPH	C13
10	AM	403	BPH	C8
10	AM	403	BPH	C13

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
15	BM	407	PEF	C3-O3-C30-C31
15	AH	301	PEF	C3-O3-C30-C31

There are no ring outliers.

## 5.7 Other polymers ⓘ

There are no such residues in this entry.

## 5.8 Polymer linkage issues

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2	OWAB(Å <sup>2</sup> )	Q < 0.9
1	AC	317/404 (78%)	0.10	7 (2%) 59 12	41, 84, 141, 197	1 (0%)
1	BC	317/404 (78%)	0.17	13 (4%) 35 7	58, 91, 139, 165	1 (0%)
2	AL	280/281 (99%)	-0.04	5 (1%) 65 14	21, 58, 119, 145	0
2	BL	280/281 (99%)	0.05	7 (2%) 54 11	33, 77, 136, 156	0
3	AM	319/325 (98%)	-0.03	2 (0%) 86 32	19, 65, 107, 121	0
3	BM	319/325 (98%)	0.01	4 (1%) 74 19	37, 80, 125, 184	0
4	AH	258/259 (99%)	0.20	10 (3%) 37 7	46, 95, 149, 183	0
4	BH	258/259 (99%)	0.19	7 (2%) 52 10	57, 104, 164, 183	0
5	A1	58/61 (95%)	0.45	8 (13%) 4 1	73, 163, 300, 305	0
5	A3	57/61 (93%)	0.34	2 (3%) 42 8	117, 162, 318, 320	0
5	A5	56/61 (91%)	0.81	6 (10%) 6 2	70, 165, 320, 321	0
5	A7	51/61 (83%)	0.35	3 (5%) 22 5	111, 148, 234, 251	0
5	A9	60/61 (98%)	0.49	7 (11%) 5 2	96, 151, 319, 319	0
5	AA	48/61 (78%)	0.44	3 (6%) 19 5	92, 144, 241, 257	0
5	AD	57/61 (93%)	0.50	8 (14%) 3 1	97, 145, 222, 239	0
5	AF	59/61 (96%)	0.21	2 (3%) 43 8	99, 130, 226, 235	0
5	AI	59/61 (96%)	0.52	6 (10%) 7 2	81, 143, 236, 267	0
5	AK	58/61 (95%)	0.04	2 (3%) 43 8	81, 140, 227, 261	0
5	AO	59/61 (96%)	0.54	8 (13%) 4 1	88, 158, 258, 262	0
5	AQ	57/61 (93%)	0.09	1 (1%) 65 14	56, 135, 277, 280	0
5	AS	59/61 (96%)	0.31	4 (6%) 17 4	86, 158, 300, 309	0
5	AU	60/61 (98%)	0.64	7 (11%) 5 2	144, 167, 252, 254	0
5	AW	60/61 (98%)	0.16	4 (6%) 17 4	68, 135, 239, 250	0
5	AY	60/61 (98%)	0.44	3 (5%) 28 6	128, 152, 278, 284	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
5	B1	54/61 (88%)	0.17	1 (1%) 64 13	88, 126, 237, 238	0
5	B3	60/61 (98%)	0.41	5 (8%) 11 3	103, 151, 262, 263	0
5	B5	51/61 (83%)	0.97	13 (25%) 1 1	131, 174, 234, 237	0
5	B7	54/61 (88%)	0.42	5 (9%) 9 2	120, 191, 255, 261	0
5	B9	51/61 (83%)	0.36	4 (7%) 13 3	101, 150, 240, 241	0
5	BA	55/61 (90%)	0.48	3 (5%) 24 5	112, 161, 261, 269	0
5	BD	45/61 (73%)	0.70	4 (8%) 10 3	135, 140, 226, 247	0
5	BF	56/61 (91%)	0.41	4 (7%) 16 4	135, 168, 237, 251	0
5	BI	50/61 (81%)	0.35	5 (10%) 8 2	107, 134, 223, 229	0
5	BK	60/61 (98%)	0.61	4 (6%) 17 4	152, 166, 314, 318	0
5	BO	59/61 (96%)	0.29	2 (3%) 43 8	76, 129, 292, 295	0
5	BQ	59/61 (96%)	0.65	8 (13%) 4 1	150, 168, 266, 274	0
5	BS	59/61 (96%)	0.66	7 (11%) 5 1	91, 159, 250, 253	0
5	BU	58/61 (95%)	0.84	9 (15%) 3 1	109, 150, 280, 282	0
5	BW	58/61 (95%)	0.54	6 (10%) 7 2	49, 114, 230, 232	0
5	BY	54/61 (88%)	0.20	1 (1%) 64 13	46, 95, 222, 230	0
6	A0	40/47 (85%)	0.02	1 (2%) 54 11	166, 177, 205, 220	0
6	A2	40/47 (85%)	0.32	6 (15%) 3 1	122, 146, 202, 211	0
6	A4	40/47 (85%)	-0.06	0 100 100	147, 151, 221, 222	0
6	A6	40/47 (85%)	-0.12	0 100 100	140, 155, 199, 213	0
6	A8	40/47 (85%)	0.43	5 (12%) 5 1	129, 187, 225, 229	0
6	AB	40/47 (85%)	0.23	1 (2%) 54 11	122, 162, 189, 190	0
6	AE	40/47 (85%)	0.32	3 (7%) 14 3	120, 145, 169, 184	0
6	AG	40/47 (85%)	-0.05	0 100 100	74, 116, 140, 145	0
6	AJ	40/47 (85%)	0.07	1 (2%) 54 11	118, 129, 154, 159	0
6	AN	40/47 (85%)	-0.01	2 (5%) 28 6	101, 121, 155, 161	0
6	AP	40/47 (85%)	0.12	1 (2%) 54 11	106, 142, 245, 248	0
6	AR	40/47 (85%)	0.49	4 (10%) 8 2	122, 157, 194, 199	0
6	AT	40/47 (85%)	0.04	0 100 100	119, 148, 198, 205	0
6	AV	40/47 (85%)	0.37	4 (10%) 8 2	130, 167, 222, 225	0
6	AX	40/47 (85%)	0.15	1 (2%) 54 11	157, 167, 194, 199	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
6	AZ	40/47 (85%)	0.36	2 (5%) 28 6	111, 137, 238, 240	0
6	B0	40/47 (85%)	0.47	5 (12%) 5 1	197, 208, 220, 221	0
6	B2	40/47 (85%)	-0.05	0 100 100	116, 127, 158, 162	0
6	B4	40/47 (85%)	0.37	4 (10%) 8 2	134, 156, 191, 199	0
6	B6	40/47 (85%)	0.57	8 (20%) 2 1	115, 152, 213, 215	0
6	B8	40/47 (85%)	0.36	1 (2%) 54 11	123, 199, 232, 234	0
6	BB	40/47 (85%)	0.39	3 (7%) 14 3	155, 164, 229, 231	0
6	BE	40/47 (85%)	0.22	3 (7%) 14 3	148, 170, 194, 212	0
6	BG	40/47 (85%)	0.47	4 (10%) 8 2	185, 204, 218, 220	0
6	BJ	40/47 (85%)	0.56	6 (15%) 3 1	199, 204, 208, 209	0
6	BN	40/47 (85%)	0.19	2 (5%) 28 6	152, 160, 194, 201	0
6	BP	40/47 (85%)	0.11	4 (10%) 8 2	124, 149, 226, 230	0
6	BR	40/47 (85%)	0.34	3 (7%) 14 3	138, 171, 206, 213	0
6	BT	40/47 (85%)	0.16	1 (2%) 54 11	132, 157, 227, 233	0
6	BV	40/47 (85%)	-0.07	0 100 100	91, 143, 170, 174	0
6	BX	40/47 (85%)	-0.09	0 100 100	100, 127, 169, 172	0
6	BZ	40/47 (85%)	0.23	1 (2%) 54 11	121, 135, 178, 186	0
All	All	5429/5994 (90%)	0.23	286 (5%) 25 5	19, 123, 237, 321	2 (0%)

All (286) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AC	17	SER	9.3
5	A5	5	ASN	9.3
4	AH	51	GLY	9.2
5	BW	8	LEU	8.8
4	AH	52	ARG	8.8
5	AI	13	LEU	8.7
1	AC	18	VAL	8.1
5	A5	8	LEU	8.1
5	BD	37	MET	7.8
5	BD	41	SER	7.5
5	AY	13	LEU	7.2
1	AC	19	MET	6.8
5	BQ	4	MET	6.5
6	B6	9	LEU	6.3

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Mol	Chain	Res	Type	RSRZ
5	B5	13	LEU	6.2
6	AZ	10	THR	6.1
5	BQ	3	THR	5.9
5	BK	61	LYS	5.8
5	AI	6	ALA	5.7
5	BS	8	LEU	5.6
4	AH	47	GLU	5.5
5	AD	42	THR	5.4
5	AF	13	LEU	5.3
5	AD	41	SER	5.3
5	BU	55	TYR	5.3
5	BD	40	LEU	5.2
6	B0	42	TYR	5.2
5	BS	5	ASN	4.9
6	AR	46	LEU	4.9
6	BG	9	LEU	4.7
5	AA	8	LEU	4.7
5	AO	8	LEU	4.7
3	BM	33	ARG	4.6
5	A5	54	SER	4.5
6	BR	45	TRP	4.5
5	BU	40	LEU	4.5
5	BQ	2	PHE	4.5
5	B7	10	LYS	4.5
5	A5	4	MET	4.4
6	BJ	9	LEU	4.4
5	B5	21	LEU	4.4
5	A1	5	ASN	4.4
5	AW	13	LEU	4.3
5	A9	53	VAL	4.2
5	BU	15	LEU	4.1
5	AD	40	LEU	4.0
1	AC	58	PRO	4.0
5	AU	43	ASP	4.0
6	A8	21	PHE	3.9
1	BC	19	MET	3.8
5	BK	57	ALA	3.8
5	AI	8	LEU	3.8
6	B4	19	ALA	3.7
5	A9	40	LEU	3.7
5	A1	4	MET	3.7
5	BU	9	TYR	3.7

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Mol	Chain	Res	Type	RSRZ
5	AO	50	ASN	3.7
5	B5	6	ALA	3.7
5	BO	11	ILE	3.6
5	B5	16	ASP	3.6
5	B9	37	MET	3.6
5	B3	6	ALA	3.6
6	BG	41	LEU	3.6
4	AH	44	ASP	3.6
1	BC	38	VAL	3.6
5	B9	10	LYS	3.5
5	BA	43	ASP	3.5
1	BC	60	GLU	3.5
5	A3	11	ILE	3.5
1	BC	181	THR	3.5
5	A1	8	LEU	3.5
5	A5	21	LEU	3.5
6	AZ	9	LEU	3.5
6	B6	8	GLY	3.5
6	BJ	39	ALA	3.4
5	A1	6	ALA	3.4
6	BJ	45	TRP	3.4
5	BI	48	ASP	3.4
1	BC	185	TYR	3.4
5	BS	40	LEU	3.4
5	B7	8	LEU	3.3
5	A1	47	LEU	3.3
5	BU	37	MET	3.3
5	B9	13	LEU	3.3
6	B0	39	ALA	3.3
5	BK	58	LEU	3.3
6	B0	41	LEU	3.2
6	BJ	28	TRP	3.2
5	B5	7	ASN	3.2
6	BE	28	TRP	3.2
4	AH	177	PRO	3.2
6	BT	45	TRP	3.2
5	BS	14	ILE	3.2
6	A2	10	THR	3.2
5	AU	55	TYR	3.1
5	BI	8	LEU	3.1
6	BJ	32	VAL	3.1
6	BR	40	TRP	3.1

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Mol	Chain	Res	Type	RSRZ
5	AS	15	LEU	3.1
4	AH	8	TYR	3.0
6	AJ	39	ALA	3.0
6	B4	11	ASP	3.0
5	B5	17	PRO	3.0
5	BQ	8	LEU	3.0
2	BL	28	GLY	3.0
5	AW	47	LEU	3.0
6	A8	14	ALA	3.0
5	AA	14	ILE	2.9
6	A2	28	TRP	2.9
5	AD	57	ALA	2.9
6	BJ	46	LEU	2.9
5	A5	39	VAL	2.9
6	B6	42	TYR	2.9
4	AH	50	GLY	2.9
5	AD	39	VAL	2.9
6	A8	17	PHE	2.9
5	AI	14	ILE	2.9
5	BK	13	LEU	2.9
6	AN	16	GLU	2.9
6	BP	45	TRP	2.8
5	B5	10	LYS	2.8
5	BA	37	MET	2.8
2	BL	151	TRP	2.8
6	BN	14	ALA	2.8
5	AS	4	MET	2.8
5	AD	46	TRP	2.8
5	AU	10	LYS	2.8
5	BS	4	MET	2.8
5	A9	5	ASN	2.8
6	B4	10	THR	2.8
5	B7	11	ILE	2.8
3	AM	2	PRO	2.8
5	A7	12	TRP	2.8
5	BU	11	ILE	2.7
5	BU	56	GLN	2.7
5	A1	13	LEU	2.7
6	BN	45	TRP	2.7
5	AY	28	GLN	2.7
2	BL	67	THR	2.7
5	BI	21	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
6	AE	42	TYR	2.7
5	B3	15	LEU	2.7
6	BB	16	GLU	2.7
6	B6	12	ASP	2.7
1	BC	59	VAL	2.7
6	BP	7	THR	2.6
6	BE	32	VAL	2.6
6	BG	42	TYR	2.6
3	BM	238	ILE	2.6
5	BA	40	LEU	2.6
6	AV	12	ASP	2.6
6	A2	13	GLU	2.6
5	AD	6	ALA	2.6
5	AS	55	TYR	2.6
5	B9	47	LEU	2.6
5	BQ	40	LEU	2.6
4	BH	4	GLY	2.6
6	AV	15	LYS	2.6
6	AR	13	GLU	2.6
5	BW	9	TYR	2.6
6	AR	44	PRO	2.6
5	BS	13	LEU	2.6
6	BG	39	ALA	2.6
5	BS	11	ILE	2.6
5	B5	47	LEU	2.5
5	BW	40	LEU	2.5
1	BC	174	TYR	2.5
6	AR	45	TRP	2.5
5	BF	6	ALA	2.5
5	BW	5	ASN	2.5
5	AU	13	LEU	2.5
5	BI	37	MET	2.5
5	BI	11	ILE	2.5
5	BU	18	ARG	2.5
5	AS	45	ASN	2.5
6	AV	11	ASP	2.5
6	BE	16	GLU	2.5
2	AL	85	ARG	2.5
3	AM	289	THR	2.5
5	AI	11	ILE	2.5
5	BF	43	ASP	2.5
5	A9	10	LYS	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
5	A3	5	ASN	2.4
6	AE	21	PHE	2.4
1	AC	82	LEU	2.4
5	BF	13	LEU	2.4
5	A1	14	ILE	2.4
1	AC	20	LEU	2.4
5	B3	51	ILE	2.4
5	BQ	15	LEU	2.4
5	BY	61	LYS	2.4
4	BH	3	ALA	2.4
5	A7	10	LYS	2.4
6	B6	7	THR	2.4
5	AY	14	ILE	2.4
5	AU	11	ILE	2.4
6	B6	16	GLU	2.4
6	B0	20	ILE	2.4
5	AO	9	TYR	2.4
5	A9	47	LEU	2.4
5	AU	14	ILE	2.4
5	BU	52	PRO	2.4
5	B3	58	LEU	2.4
2	BL	29	PRO	2.3
5	B1	10	LYS	2.3
5	BQ	11	ILE	2.3
6	AE	43	ARG	2.3
4	BH	41	LEU	2.3
1	BC	20	LEU	2.3
4	BH	56	VAL	2.3
5	AO	10	LYS	2.3
6	BB	10	THR	2.3
1	AC	321	ALA	2.3
6	B6	15	LYS	2.3
2	BL	89	LEU	2.3
3	BM	191	ILE	2.3
4	AH	5	ILE	2.3
5	AA	10	LYS	2.3
4	AH	46	THR	2.3
5	BF	39	VAL	2.3
6	AP	11	ASP	2.3
2	AL	15	GLY	2.3
6	A2	14	ALA	2.2
6	BP	8	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
4	BH	5	ILE	2.2
6	AB	21	PHE	2.2
6	BZ	8	GLY	2.2
5	AQ	11	ILE	2.2
6	B8	13	GLU	2.2
6	BP	10	THR	2.2
5	AD	43	ASP	2.2
5	B5	8	LEU	2.2
6	A2	12	ASP	2.2
6	AN	45	TRP	2.2
6	BB	38	LEU	2.2
5	AO	42	THR	2.2
5	AI	5	ASN	2.2
5	AO	38	ILE	2.2
4	BH	201	ARG	2.2
5	B7	21	LEU	2.2
2	AL	144	ARG	2.2
5	AU	39	VAL	2.1
5	BO	13	LEU	2.1
6	B6	10	THR	2.1
4	AH	45	ARG	2.1
5	AK	8	LEU	2.1
5	AW	11	ILE	2.1
6	A8	42	TYR	2.1
2	AL	18	ILE	2.1
2	BL	17	LEU	2.1
6	A2	45	TRP	2.1
5	BD	39	VAL	2.1
5	BW	10	LYS	2.1
1	BC	116	TRP	2.1
5	A7	21	LEU	2.1
3	BM	32	GLY	2.1
5	A9	37	MET	2.1
5	A1	7	ASN	2.1
5	BQ	5	ASN	2.1
6	AV	45	TRP	2.1
5	B5	38	ILE	2.1
5	B5	11	ILE	2.1
6	B0	38	LEU	2.1
6	B4	12	ASP	2.1
1	BC	290	VAL	2.1
5	A9	54	SER	2.1

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Mol	Chain	Res	Type	RSRZ
5	B5	48	ASP	2.1
1	BC	70	PRO	2.1
5	AO	52	PRO	2.1
1	BC	39	GLY	2.1
5	B5	3	THR	2.1
5	AO	41	SER	2.1
4	BH	8	TYR	2.1
6	AX	29	PHE	2.1
2	AL	2	ALA	2.1
5	BW	15	LEU	2.1
5	AK	42	THR	2.0
5	B7	47	LEU	2.0
6	BR	44	PRO	2.0
1	BC	329	GLY	2.0
5	AW	15	LEU	2.0
6	A8	20	ILE	2.0
2	BL	20	GLY	2.0
6	A0	43	ARG	2.0
5	AF	47	LEU	2.0
5	B3	57	ALA	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

## 6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q < 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
14	CRT	B2	102	44/44	1.58	12.08	132,151,166,171	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
14	CRT	AP	102	44/44	1.46	7.93	137,140,147,148	0
14	CRT	BO	103	44/44	1.58	7.88	179,182,185,186	0
14	CRT	AG	102	44/44	1.02	7.40	126,127,135,138	0
14	CRT	AX	102	44/44	1.84	7.35	218,225,227,229	0
14	CRT	AT	102	44/44	1.22	7.11	200,205,209,210	0
13	MQ8	AM	405	53/53	0.58	6.42	76,93,128,137	0
14	CRT	BU	103	44/44	1.53	6.30	161,173,176,176	0
14	CRT	B1	103	44/44	1.21	5.93	205,224,238,240	0
14	CRT	AB	102	44/44	1.29	5.90	170,172,177,178	0
14	CRT	AS	104	44/44	1.04	5.89	165,170,177,180	0
14	CRT	B0	101	44/44	1.77	5.31	202,220,238,242	0
15	PEF	AM	409	47/47	0.72	5.27	129,183,183,183	0
14	CRT	BA	102	44/44	1.10	5.24	143,157,171,174	0
14	CRT	AW	102	44/44	1.33	5.16	127,136,144,147	0
14	CRT	BS	103	44/44	1.50	4.48	193,197,199,200	0
14	CRT	BP	102	44/44	1.04	4.40	149,151,153,154	0
14	CRT	B5	103	44/44	1.75	4.26	178,198,221,226	0
14	CRT	AR	102	44/44	1.25	4.16	189,193,200,201	0
14	CRT	BN	102	44/44	0.96	4.06	134,135,140,141	0
15	PEF	AS	101	47/47	0.51	4.01	178,225,225,225	0
13	MQ8	BM	405	53/53	0.49	3.81	68,99,166,168	0
14	CRT	BF	103	44/44	1.03	3.77	134,141,147,149	0
14	CRT	A1	103	44/44	1.12	3.76	110,123,135,138	0
14	CRT	A0	101	44/44	0.71	3.47	179,184,194,195	0
14	CRT	BV	102	44/44	0.99	3.33	208,214,218,220	0
15	PEF	BQ	101	47/47	1.03	3.28	121,145,161,161	0
14	CRT	AA	102	44/44	1.16	3.26	164,164,167,167	0
14	CRT	A5	103	44/44	1.62	3.09	167,174,185,187	0
15	PEF	BM	407	19/47	0.45	2.95	102,136,173,178	0
14	CRT	BB	102	44/44	1.28	2.92	169,185,201,205	0
14	CRT	AJ	102	44/44	0.87	2.87	138,140,144,147	0
15	PEF	AM	407	19/47	0.45	2.58	114,165,177,177	0
14	CRT	B7	102	44/44	0.87	2.49	173,194,212,217	0
14	CRT	A2	102	44/44	1.05	2.41	107,117,146,149	0
14	CRT	BG	102	44/44	0.69	2.38	122,130,143,145	0
9	BCL	BM	402	66/66	0.39	2.24	41,58,73,79	0
14	CRT	BW	103	44/44	1.04	2.15	129,145,156,161	0
9	BCL	BN	101	66/66	0.58	2.03	153,170,192,193	0
14	CRT	A7	102	44/44	0.74	2.01	126,137,150,152	0
11	UQ8	BL	304	53/53	0.49	1.94	66,137,159,166	0
14	CRT	BM	406	44/44	0.46	1.91	69,74,96,109	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
9	BCL	AQ	102	66/66	0.55	1.88	187,198,210,221	0
9	BCL	BA	101	66/66	0.50	1.83	206,224,237,238	0
9	BCL	BK	102	66/66	0.58	1.69	194,257,267,269	0
9	BCL	AU	102	66/66	0.62	1.64	161,175,231,234	0
9	BCL	AG	101	66/66	0.41	1.59	105,132,177,178	0
9	BCL	AO	102	66/66	0.48	1.58	199,207,214,219	0
9	BCL	AI	102	66/66	0.53	1.56	148,163,190,191	0
9	BCL	BV	101	66/66	0.48	1.54	172,194,218,220	0
9	BCL	AS	103	66/66	0.68	1.54	206,220,229,233	0
14	CRT	AN	102	44/44	0.92	1.52	133,135,140,140	0
9	BCL	B0	102	66/66	0.52	1.44	198,202,205,207	0
9	BCL	BQ	103	66/66	0.54	1.42	168,191,225,226	0
9	BCL	B2	101	66/66	0.44	1.40	136,152,203,204	0
10	BPH	BM	403	65/65	0.28	1.39	72,96,164,176	0
10	BPH	AM	403	65/65	0.29	1.37	43,61,150,153	0
9	BCL	A3	103	66/66	0.52	1.35	127,137,178,178	0
9	BCL	AJ	101	66/66	0.48	1.24	134,165,191,193	0
10	BPH	AL	302	65/65	0.29	1.22	31,54,75,84	0
9	BCL	B7	103	66/66	0.55	1.20	232,250,259,260	0
9	BCL	AW	101	66/66	0.54	1.16	143,191,243,243	0
9	BCL	BX	101	66/66	0.37	1.15	126,139,204,205	0
9	BCL	AT	101	66/66	0.39	1.13	187,198,247,248	0
9	BCL	AY	102	66/66	0.50	1.07	133,140,195,196	0
9	BCL	BT	101	66/66	0.48	1.00	176,191,253,254	0
9	BCL	B9	102	66/66	0.56	0.96	205,229,236,237	0
9	BCL	AA	101	66/66	0.44	0.95	235,252,257,260	0
14	CRT	AM	406	44/44	0.42	0.95	58,70,105,107	0
9	BCL	B1	102	66/66	0.40	0.94	87,118,185,186	0
9	BCL	AL	303	66/66	0.28	0.93	19,34,93,96	0
9	BCL	AP	101	66/66	0.39	0.90	107,127,189,190	0
9	BCL	BP	101	66/66	0.43	0.90	156,173,208,209	0
9	BCL	AX	101	66/66	0.44	0.90	157,171,252,255	0
9	BCL	AL	301	66/66	0.29	0.89	38,50,92,96	0
9	BCL	B8	101	66/66	0.42	0.86	226,245,252,258	0
9	BCL	BD	102	66/66	0.50	0.85	147,182,237,238	0
9	BCL	A3	104	66/66	0.41	0.83	151,177,223,224	0
9	BCL	BF	102	66/66	0.48	0.81	143,168,206,210	0
9	BCL	AN	101	66/66	0.35	0.80	106,126,157,171	0
9	BCL	BO	102	66/66	0.40	0.80	153,180,189,193	0
9	BCL	BU	102	66/66	0.43	0.79	144,161,240,240	0
9	BCL	AM	402	66/66	0.28	0.79	40,48,81,101	0
11	UQ8	AL	304	53/53	0.39	0.78	74,107,143,151	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
9	BCL	B3	102	66/66	0.41	0.76	104,112,169,170	0
9	BCL	AK	102	66/66	0.43	0.75	142,154,184,184	0
9	BCL	BY	102	66/66	0.40	0.75	110,129,169,169	0
10	BPH	BL	302	65/65	0.27	0.74	36,63,98,116	0
9	BCL	BW	102	66/66	0.43	0.64	129,145,213,213	0
9	BCL	B6	101	66/66	0.42	0.63	238,251,261,264	0
9	BCL	B4	101	66/66	0.46	0.57	149,166,212,214	0
9	BCL	A5	102	66/66	0.45	0.56	152,159,199,200	0
9	BCL	A2	101	66/66	0.41	0.55	122,133,201,203	0
9	BCL	BB	101	66/66	0.46	0.54	187,209,245,245	0
9	BCL	AF	102	66/66	0.42	0.54	156,175,222,222	0
9	BCL	A1	102	66/66	0.44	0.54	96,135,194,194	0
9	BCL	AD	102	66/66	0.48	0.53	179,196,260,263	0
9	BCL	A9	102	66/66	0.47	0.52	213,227,251,252	0
9	BCL	A7	103	66/66	0.39	0.45	239,243,267,268	0
9	BCL	A6	101	66/66	0.37	0.44	238,254,268,272	0
7	HEM	AC	503	43/43	0.29	0.40	71,84,106,112	0
9	BCL	BS	102	66/66	0.43	0.40	152,193,231,231	0
9	BCL	AR	101	66/66	0.37	0.39	187,200,230,231	0
9	BCL	BZ	101	66/66	0.33	0.37	125,139,192,193	0
9	BCL	BL	301	66/66	0.25	0.28	36,53,94,100	0
7	HEM	BC	502	43/43	0.31	0.27	50,80,94,103	0
9	BCL	BI	102	66/66	0.43	0.26	131,159,208,208	0
9	BCL	AZ	101	66/66	0.38	0.25	120,142,217,218	0
7	HEM	AC	502	43/43	0.29	0.24	53,68,81,88	0
7	HEM	AC	504	43/43	0.27	0.24	39,76,101,104	0
9	BCL	BQ	104	66/66	0.40	0.19	181,191,253,254	0
9	BCL	BJ	101	66/66	0.44	0.14	202,204,207,208	0
9	BCL	A8	101	66/66	0.29	0.11	201,214,245,247	0
7	HEM	AC	501	43/43	0.32	0.11	86,86,86,96	0
9	BCL	BL	303	66/66	0.24	0.11	33,56,137,146	0
9	BCL	BE	101	66/66	0.40	0.10	146,170,225,227	0
16	PO4	AM	410	5/5	0.25	0.10	83,84,84,84	0
9	BCL	A0	102	66/66	0.31	0.09	199,210,239,240	0
8	CA	AO	101	1/1	0.43	0.09	267,267,267,267	0
9	BCL	AV	102	66/66	0.43	0.02	183,194,249,250	0
9	BCL	AM	401	66/66	0.24	0.02	32,54,95,104	0
9	BCL	BG	101	66/66	0.36	-0.01	201,207,214,217	0
7	HEM	BC	504	43/43	0.23	-0.04	55,78,92,106	0
7	HEM	BC	503	43/43	0.26	-0.05	84,110,135,146	0
7	HEM	BC	501	43/43	0.27	-0.07	52,60,117,131	0
9	BCL	B5	102	66/66	0.31	-0.13	154,171,221,221	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
9	BCL	AE	101	66/66	0.33	-0.16	135,156,211,212	0
9	BCL	BM	401	66/66	0.22	-0.18	39,55,82,90	0
9	BCL	AB	101	66/66	0.31	-0.21	124,158,224,224	0
8	CA	BY	101	1/1	0.20	-0.43	148,148,148,148	0
15	PEF	AH	301	19/47	0.23	-0.52	128,144,161,167	0
15	PEF	AM	408	14/47	0.24	-0.53	12,90,119,125	0
8	CA	B9	101	1/1	0.28	-0.83	150,150,150,150	0
16	PO4	AH	302	5/5	0.16	-0.87	102,103,104,104	0
16	PO4	BH	301	5/5	0.15	-0.90	108,109,109,110	0
8	CA	BO	101	1/1	0.14	-0.99	238,238,238,238	0
8	CA	AF	101	1/1	0.14	-1.06	254,254,254,254	0
8	CA	AU	101	1/1	0.14	-1.09	223,223,223,223	0
8	CA	B5	101	1/1	0.15	-1.09	226,226,226,226	0
8	CA	BU	101	1/1	0.12	-1.12	237,237,237,237	0
8	CA	AD	101	1/1	0.07	-1.13	238,238,238,238	0
8	CA	B3	101	1/1	0.10	-1.19	222,222,222,222	0
16	PO4	A3	101	5/5	0.21	-1.24	153,154,154,154	0
8	CA	BK	101	1/1	0.21	-1.25	275,275,275,275	0
8	CA	B1	101	1/1	0.10	-1.27	184,184,184,184	0
8	CA	A5	101	1/1	0.10	-1.31	255,255,255,255	0
8	CA	A9	101	1/1	0.08	-1.33	268,268,268,268	0
8	CA	AS	102	1/1	0.12	-1.45	190,190,190,190	0
8	CA	AY	101	1/1	0.16	-1.49	197,197,197,197	0
8	CA	AC	505	1/1	0.10	-1.52	30,30,30,30	0
8	CA	AA	103	1/1	0.14	-1.54	275,275,275,275	0
8	CA	B7	101	1/1	0.14	-1.55	259,259,259,259	0
8	CA	A1	101	1/1	0.06	-1.55	212,212,212,212	0
8	CA	A7	101	1/1	0.10	-1.58	213,213,213,213	0
8	CA	BI	101	1/1	0.11	-1.61	236,236,236,236	0
8	CA	A3	102	1/1	0.10	-1.63	256,256,256,256	0
8	CA	AV	101	1/1	0.10	-1.64	168,168,168,168	0
8	CA	BF	101	1/1	0.07	-1.72	276,276,276,276	0
8	CA	BQ	102	1/1	0.07	-1.77	249,249,249,249	0
8	CA	AI	101	1/1	0.08	-1.84	224,224,224,224	0
8	CA	AQ	101	1/1	0.05	-1.84	207,207,207,207	0
8	CA	BS	101	1/1	0.10	-1.89	222,222,222,222	0
8	CA	BW	101	1/1	0.08	-1.91	204,204,204,204	0
8	CA	AK	101	1/1	0.09	-1.98	216,216,216,216	0
12	FE	BM	404	1/1	0.06	-2.20	44,44,44,44	0
8	CA	BD	101	1/1	0.06	-2.24	236,236,236,236	0
12	FE	AM	404	1/1	0.11	-2.57	47,47,47,47	0
8	CA	BA	103	1/1	0.09	-2.84	283,283,283,283	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
8	CA	BC	505	1/1	0.13	-3.19	69,69,69,69	0

## 6.5 Other polymers ⓘ

There are no such residues in this entry.