Full wwPDB EM Validation Report

Mar 9, 2026 – 09:42 AM UTC

PDB ID	:	9K9W / pdb_00009k9w
EMDB ID	:	EMD-62201
Title	:	structure of bundle-shaped PBS with short rod
Authors	:	Sui, S.-F.; Ma, J.; You, X.; Sun, S.
Deposited on	:	2024-10-28
Resolution	:	2.80 Å(reported)
Based on initial model	:	6KGX

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

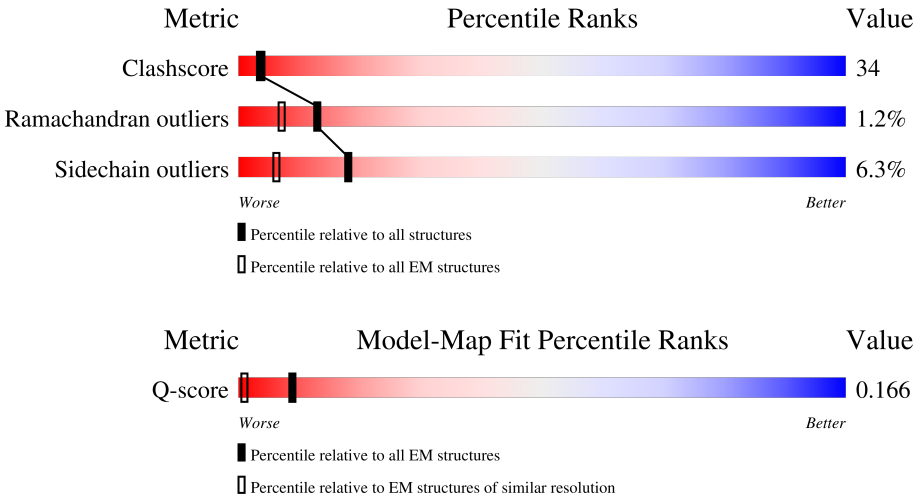
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 2.80 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	11806 (2.30 - 3.30)

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

Mol	Chain	Length	Quality of chain
1	A	161	78% 22%
1	B5	161	78% 22%
1	B7	161	83% 17%
1	D5	161	68% 23% 7%

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Mol	Chain	Length	Quality of chain
1	D7	161	73% 24%
1	F5	161	77% 21%
1	F7	161	85% 15%
1	H5	161	78% 21%
1	H7	161	81% 18%
1	J5	161	66% 24% 8%
1	J7	161	73% 24%
1	L5	161	77% 21%
1	L7	161	85% 15%
1	N5	161	84% 15%
1	N7	161	84% 16%
1	P5	161	80% 20%
1	P7	161	83% 17%
1	R5	161	70% 29%
1	R7	161	84% 16%
1	T5	161	83% 17%
1	T7	161	81% 19%
1	V5	161	80% 20%
1	V7	161	83% 16%
1	X5	161	70% 29%
1	X7	161	84% 16%
1	Z	161	77% 22%
1	Z5	161	80% 20%
1	Z7	161	83% 17%
1	b5	161	78% 21%

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Mol	Chain	Length	Quality of chain
1	b7	161	68% 25% 6%
1	d5	161	79% 20%
1	d7	161	72% 27%
1	f5	161	81% 17%
1	f7	161	83% 17%
1	h7	161	66% 28% 6%
1	j7	161	78% 21%
1	l7	161	80% 19%
1	n7	161	79% 21%
1	p7	161	6% 67% 32%
1	r7	161	80% 20%
1	t7	161	80% 20%
1	v7	161	8% 66% 32%
2	A1	162	77% 23%
2	A2	162	75% 23%
2	A3	162	76% 22%
2	A4	162	76% 23%
2	A6	162	75% 23%
2	A8	162	75% 23%
2	A9	162	75% 24%
2	AA	162	73% 26%
2	C1	162	5% 88% 10%
2	C2	162	88% 11%
2	C3	162	5% 90% 9%
2	C4	162	12% 88% 12%

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Mol	Chain	Length	Quality of chain
2	C6	162	90% 10%
2	C8	162	12% 89% 10%
2	C9	162	91% 9%
2	CA	162	91% 9%
2	E1	162	6% 88% 12%
2	E2	162	88% 12%
2	E3	162	6% 88% 11%
2	E4	162	9% 89% 10%
2	E6	162	88% 12%
2	E8	162	9% 88% 12%
2	E9	162	5% 87% 11%
2	EA	162	5% 88% 10%
2	G1	162	87% 12%
2	G2	162	86% 13%
2	G3	162	88% 11%
2	G4	162	89% 10%
2	G6	162	88% 12%
2	G8	162	88% 12%
2	G9	162	89% 10%
2	GA	162	88% 12%
2	I1	162	9% 89% 10%
2	I2	162	10% 88% 11%
2	I3	162	9% 89% 10%
2	I4	162	89% 10%
2	I6	162	11% 88% 12%

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Mol	Chain	Length	Quality of chain
2	I8	162	89% 10%
2	I9	162	75% 22%
2	IA	162	72% 25%
2	K1	162	83% 17%
2	K2	162	86% 13%
2	K3	162	82% 17%
2	K4	162	17% 86% 14%
2	K6	162	86% 13%
2	K8	162	17% 86% 14%
2	K9	162	80% 15%
2	KA	162	81% 15%
2	N4	162	33% 72% 27%
2	N8	162	35% 70% 28%
2	O1	162	15% 78% 21%
2	O3	162	14% 77% 22%
2	O9	162	76% 23%
2	OA	162	77% 22%
2	P4	162	33% 86% 14%
2	P8	162	33% 88% 11%
2	Q1	162	42% 90% 9%
2	Q3	162	40% 90% 9%
2	Q9	162	22% 87% 12%
2	QA	162	17% 70% 27%
2	R4	162	46% 90% 10%
2	R8	162	46% 88% 11%

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Mol	Chain	Length	Quality of chain
2	S1	162	26% 90% 10%
2	S3	162	25% 89% 10%
2	S9	162	6% 88% 11%
2	SA	162	6% 87% 12%
2	T4	162	15% 88% 11%
2	T8	162	14% 88% 10%
2	U1	162	43% 83% 14%
2	U3	162	43% 86% 12%
2	U9	162	5% 87% 12%
2	UA	162	6% 79% 19%
2	V4	162	47% 90% 10%
2	V8	162	47% 91% 9%
2	W1	162	36% 90% 10%
2	W3	162	35% 91% 9%
2	W9	162	54% 88% 11%
2	WA	162	54% 88% 11%
2	X4	162	40% 81% 19%
2	X8	162	41% 78% 21%
2	Y1	162	16% 87% 12%
2	Y3	162	16% 88% 11%
2	Y9	162	87% 12%
2	YA	162	5% 86% 13%
3	B1	172	77% 21%
3	B2	172	84% 15%
3	B3	172	77% 22%

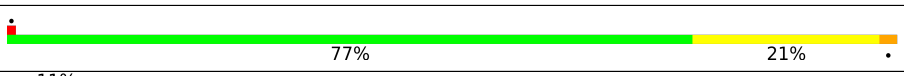
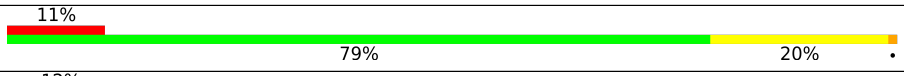
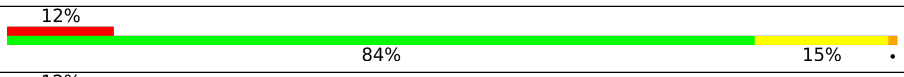
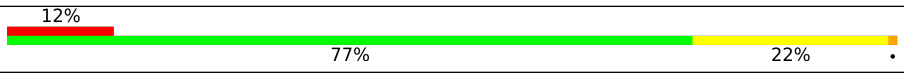
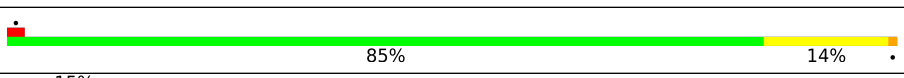
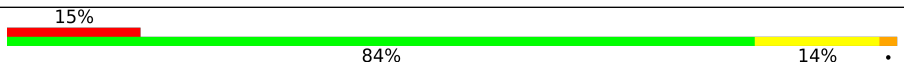
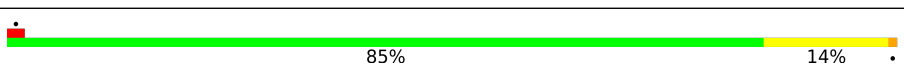
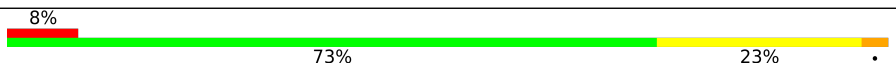
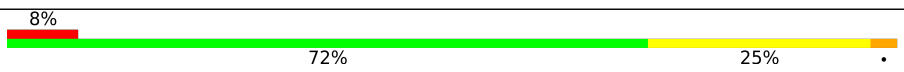
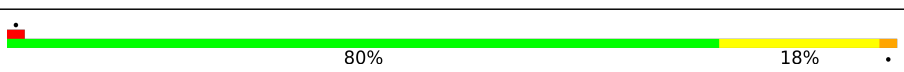
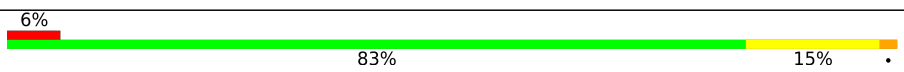
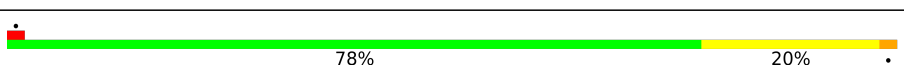
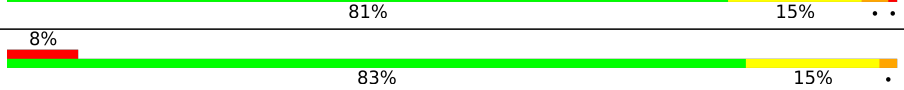
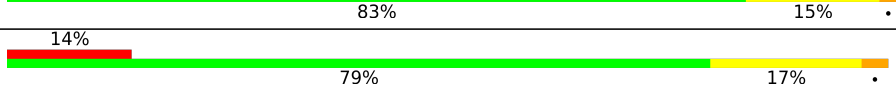
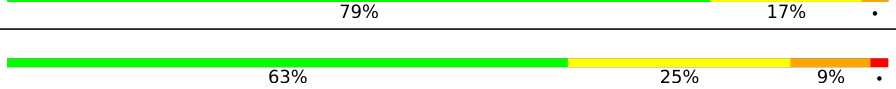
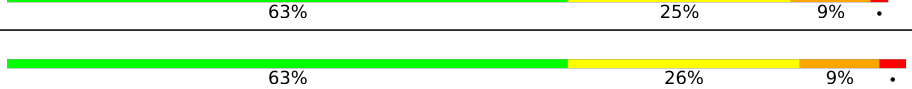
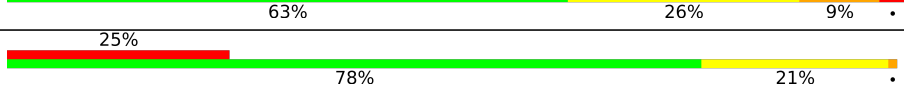
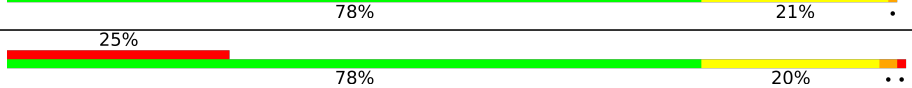
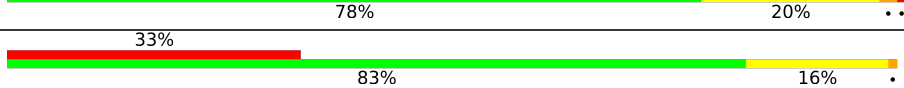
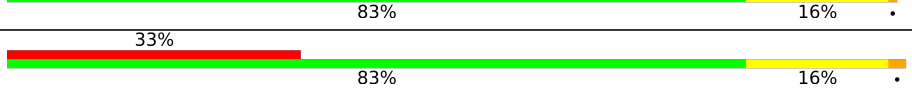
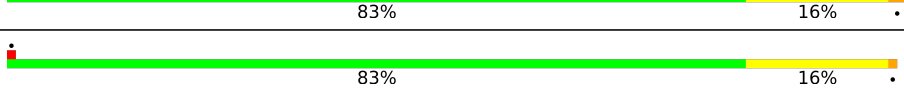
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Mol	Chain	Length	Quality of chain
3	B4	172	72% 26%
3	B6	172	84% 15%
3	B8	172	74% 24%
3	B9	172	80% 19%
3	BA	172	80% 19%
3	D1	172	7% 84% 15%
3	D2	172	87% 12%
3	D3	172	7% 84% 15%
3	D4	172	6% 83% 16%
3	D6	172	86% 13%
3	D8	172	6% 83% 16%
3	D9	172	83% 16%
3	DA	172	83% 16%
3	F1	172	9% 83% 16%
3	F2	172	83% 16%
3	F3	172	9% 83% 15%
3	F4	172	6% 76% 20%
3	F6	172	81% 18%
3	F8	172	6% 76% 21%
3	F9	172	76% 19% 5%
3	FA	172	74% 22% 5%
3	H1	172	78% 20%
3	H2	172	81% 16%
3	H3	172	81% 17%
3	H4	172	9% 82% 16%

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Mol	Chain	Length	Quality of chain
3	H6	172	
3	H8	172	
3	H9	172	
3	HA	172	
3	J1	172	
3	J2	172	
3	J3	172	
3	J4	172	
3	J6	172	
3	J8	172	
3	J9	172	
3	JA	172	
3	L1	172	
3	L2	172	
3	L3	172	
3	L4	172	
3	L6	172	
3	L8	172	
3	L9	172	
3	LA	172	
3	O4	172	
3	O8	172	
3	P1	172	
3	P3	172	
3	P9	172	

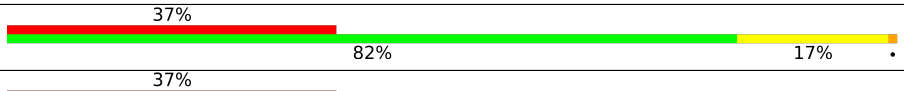
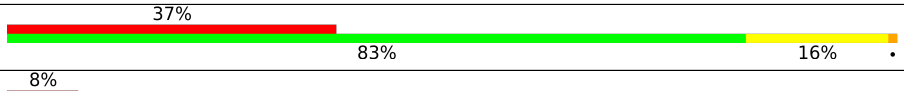
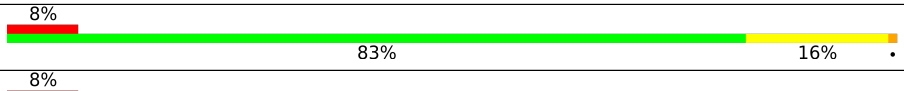
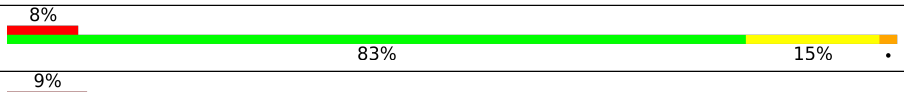
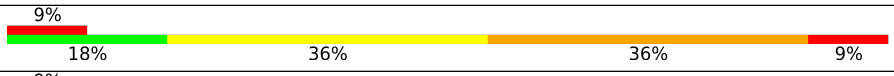
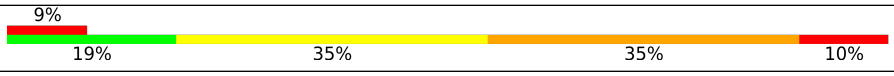
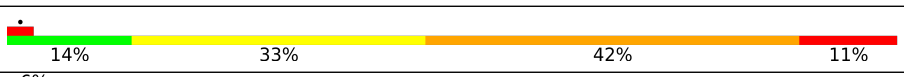
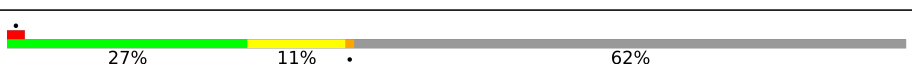
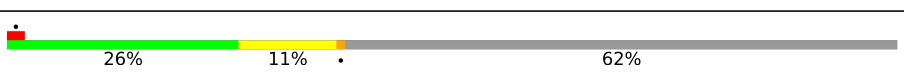
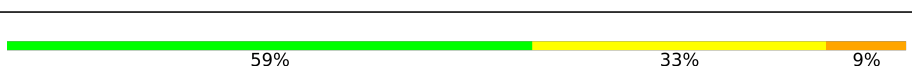
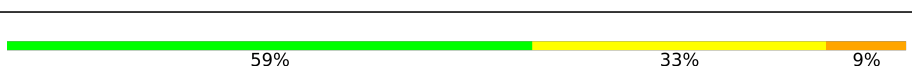
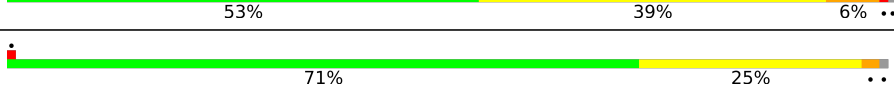
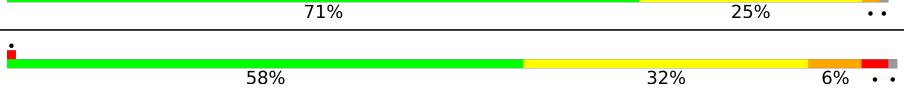
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Mol	Chain	Length	Quality of chain
3	PA	172	83% 16%
3	Q4	172	40% 62% 33% 5%
3	Q8	172	40% 69% 27%
3	R1	172	23% 84% 15%
3	R3	172	22% 85% 14%
3	R9	172	8% 82% 17%
3	RA	172	8% 81% 18%
3	S4	172	56% 82% 17%
3	S8	172	56% 84% 15%
3	T1	172	32% 84% 15%
3	T3	172	31% 84% 15%
3	T9	172	13% 78% 20%
3	TA	172	13% 74% 25%
3	U4	172	10% 83% 16%
3	U8	172	10% 82% 17%
3	V1	172	62% 84% 15%
3	V3	172	62% 84% 15%
3	V9	172	76% 80% 18%
3	VA	172	76% 80% 19%
3	W4	172	51% 85% 13%
3	W8	172	50% 85% 13%
3	X1	172	12% 80% 19%
3	X3	172	12% 79% 20%
3	X9	172	45% 84% 15%
3	XA	172	44% 84% 15%

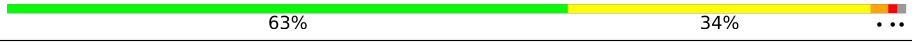
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Mol	Chain	Length	Quality of chain
3	Y4	172	
3	Y8	172	
3	Z1	172	
3	Z3	172	
3	Z9	172	
3	ZA	172	
4	M1	274	
4	M3	274	
4	M4	274	
4	M8	274	
4	M9	274	
4	MA	274	
5	N1	275	
5	N3	275	
5	N9	275	
5	NA	275	
5	Z4	275	
5	Z8	275	
6	M2	729	
6	M6	729	
7	N2	70	
7	N6	70	
8	A5	161	
8	A7	161	
8	C5	161	

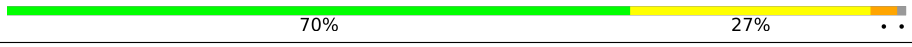
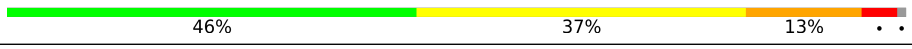
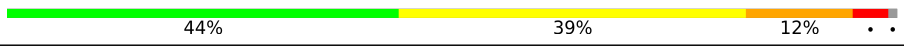
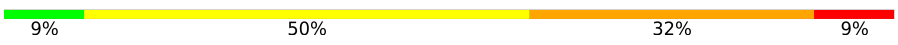
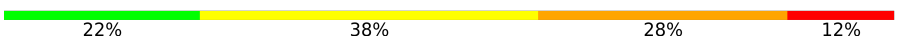
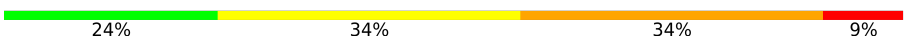
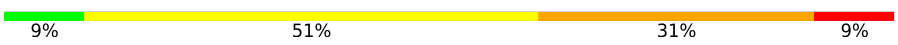
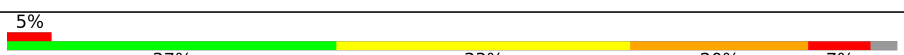
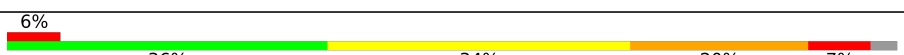
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Mol	Chain	Length	Quality of chain
8	C7	161	
8	E5	161	
8	E7	161	
8	G5	161	
8	G7	161	
8	I5	161	
8	I7	161	
8	K5	161	
8	K7	161	
8	M5	161	
8	M7	161	
8	O5	161	
8	O7	161	
8	Q5	161	
8	Q7	161	
8	S5	161	
8	S7	161	
8	U5	161	
8	U7	161	
8	W5	161	
8	W7	161	
8	Y5	161	
8	Y7	161	
8	a5	161	
8	a7	161	

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Mol	Chain	Length	Quality of chain
8	c5	161	
8	c7	161	
8	e5	161	
8	e7	161	
8	g7	161	
8	i7	161	
8	k7	161	
8	m7	161	
8	o7	161	
8	q7	161	
8	s7	161	
8	u7	161	
9	i5	68	
9	w7	68	
9	x7	68	
9	y7	68	
9	z5	68	
9	z7	68	
10	j5	1155	
10	k5	1155	
11	a9	824	
11	aA	824	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	MEN	D5	71	-	-	X	-
1	MEN	J5	71	-	-	X	-
1	MEN	v7	71	-	-	X	-
12	CYC	A5	201	-	-	X	-
12	CYC	B1	202	-	-	X	-
12	CYC	B3	202	-	-	X	-
12	CYC	B4	202	-	-	X	-
12	CYC	B5	201	-	-	X	-
12	CYC	B8	202	-	-	X	-
12	CYC	D7	201	-	-	X	-
12	CYC	D8	202	-	-	X	-
12	CYC	E5	201	-	-	X	-
12	CYC	F1	201	-	-	X	-
12	CYC	F2	201	-	-	X	-
12	CYC	F3	201	-	-	X	-
12	CYC	F6	201	-	-	X	-
12	CYC	F9	302	-	-	X	-
12	CYC	G5	201	-	-	X	-
12	CYC	H1	201	-	-	X	-
12	CYC	H4	201	-	-	X	-
12	CYC	H5	201	-	-	X	-
12	CYC	H8	201	-	-	X	-
12	CYC	H9	202	-	-	X	-
12	CYC	HA	202	-	-	X	-
12	CYC	J3	202	-	-	X	-
12	CYC	J7	201	-	-	X	-
12	CYC	J9	202	-	-	X	-
12	CYC	JA	202	-	-	X	-
12	CYC	K5	201	-	-	X	-
12	CYC	L3	202	-	-	X	-
12	CYC	L4	202	-	-	X	-
12	CYC	L9	202	-	-	X	-
12	CYC	LA	202	-	-	X	-
12	CYC	M4	301	-	-	X	-
12	CYC	M8	301	-	-	X	-
12	CYC	M8	302	-	-	X	-
12	CYC	O4	201	-	-	X	-
12	CYC	QA	201	-	-	X	-
12	CYC	R1	201	-	-	X	-
12	CYC	R3	201	-	-	X	-
12	CYC	S4	202	-	-	X	-
12	CYC	T1	301	-	-	X	-
12	CYC	T3	301	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
12	CYC	T9	301	-	-	X	-
12	CYC	TA	301	-	-	X	-
12	CYC	V9	201	-	-	X	-
12	CYC	VA	201	-	-	X	-
12	CYC	Z1	202	-	-	X	-
12	CYC	Z3	201	-	-	X	-
12	CYC	Z4	301	-	-	X	-
12	CYC	Z8	301	-	-	X	-
12	CYC	a9	901	-	-	X	-
12	CYC	aA	901	-	-	X	-
12	CYC	j5	1201	-	-	X	-
12	CYC	j5	1202	-	-	X	-
12	CYC	k5	1201	-	-	X	-
12	CYC	k5	1203	-	-	X	-
12	CYC	k5	1204	-	-	X	-
12	CYC	v7	201	-	-	X	-

2 Entry composition (i)

There are 12 unique types of molecules in this entry. The entry contains 382772 atoms, of which 76 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Allophycocyanin beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	Z	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	L5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	N5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	B5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	D5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	F5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	H5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	J5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	d5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	f5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	P5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	R5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	T5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	V5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	X5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	Z5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	b5	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	P7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	R7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	B7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	D7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	F7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	H7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	J7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	L7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	N7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	h7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	j7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	T7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	V7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	X7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	Z7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	b7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	d7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	f7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	l7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	n7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	p7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	r7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	t7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
1	v7	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		

- Molecule 2 is a protein called Phycocyanin alpha chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	AA	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	CA	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	EA	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	GA	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	IA	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	KA	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	OA	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	QA	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	SA	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	UA	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	WA	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	YA	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	O1	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	Q1	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	S1	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	A1	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	G3	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	I3	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	K3	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	G2	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	I2	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	K2	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	A3	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	C3	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	E3	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	A4	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	C4	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	O3	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	Q3	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	S3	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	U3	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	W3	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	Y3	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	T4	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	V4	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	E4	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	G4	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	I4	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	K4	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	N4	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	P4	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	R4	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	X4	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	C1	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	K6	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	A6	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	C6	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	E6	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	G6	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	I6	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	E1	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	A8	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	C8	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	E8	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	T8	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	V8	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	X8	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	G8	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	I8	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	K8	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	N8	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	P8	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	R8	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	O9	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	Q9	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	A9	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	C9	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	E9	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	G9	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	I9	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	K9	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	S9	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	U9	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	W9	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	Y9	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	G1	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	I1	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	K1	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	U1	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	W1	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	Y1	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	A2	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	C2	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		
2	E2	162	Total	C	N	O	S	0	0
			1243	779	217	242	5		

- Molecule 3 is a protein called Phycocyanin beta chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	BA	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	DA	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	FA	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	HA	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	JA	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	LA	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	PA	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	RA	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	TA	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	VA	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	XA	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	ZA	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	P1	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	R1	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	H3	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	J3	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	H2	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	J2	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	L2	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	B3	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	D3	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	F3	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	Z3	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	B4	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	D4	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	L3	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	P3	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	R3	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	T3	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	V3	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	X3	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	B1	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	S4	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	U4	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	W4	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	F4	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	H4	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	J4	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	L4	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	O4	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	Q4	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	Y4	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	J6	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	L6	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	B6	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	D6	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	F6	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	H6	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	D1	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	B8	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	D8	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	U8	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	W8	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	F8	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	H8	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	J8	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	L8	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	O8	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	Q8	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	S8	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	F1	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	L9	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	P9	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	Y8	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	B9	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	D9	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	F9	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	H9	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	J9	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	R9	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	T9	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	V9	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	X9	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	Z9	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	H1	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	J1	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	L1	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	T1	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	V1	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	X1	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	Z1	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	B2	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	D2	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		
3	F2	172	Total	C	N	O	S	0	0
			1293	802	229	255	7		

- Molecule 4 is a protein called Phycocyanin-associated rod linker protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	MA	274	Total	C	N	O	S	0	0
			2178	1383	377	413	5		
4	M3	274	Total	C	N	O	S	0	0
			2178	1383	377	413	5		
4	M4	274	Total	C	N	O	S	0	0
			2178	1383	377	413	5		
4	M8	274	Total	C	N	O	S	0	0
			2178	1383	377	413	5		
4	M9	274	Total	C	N	O	S	0	0
			2178	1383	377	413	5		
4	M1	274	Total	C	N	O	S	0	0
			2178	1383	377	413	5		

There are 330 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
MA	1	MET	-	initiating methionine	UNP Q7NGF2
MA	2	ASN	-	expression tag	UNP Q7NGF2
MA	3	VAL	-	expression tag	UNP Q7NGF2
MA	4	LEU	-	expression tag	UNP Q7NGF2
MA	5	THR	-	expression tag	UNP Q7NGF2
MA	6	THR	-	expression tag	UNP Q7NGF2

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Chain	Residue	Modelled	Actual	Comment	Reference
MA	7	SER	-	expression tag	UNP Q7NGF2
MA	8	SER	-	expression tag	UNP Q7NGF2
MA	9	GLN	-	expression tag	UNP Q7NGF2
MA	10	ARG	-	expression tag	UNP Q7NGF2
MA	11	GLY	-	expression tag	UNP Q7NGF2
MA	12	GLY	-	expression tag	UNP Q7NGF2
MA	13	LYS	-	expression tag	UNP Q7NGF2
MA	14	LEU	-	expression tag	UNP Q7NGF2
MA	15	PHE	-	expression tag	UNP Q7NGF2
MA	16	LYS	-	expression tag	UNP Q7NGF2
MA	17	VAL	-	expression tag	UNP Q7NGF2
MA	18	THR	-	expression tag	UNP Q7NGF2
MA	19	MET	-	expression tag	UNP Q7NGF2
MA	20	THR	-	expression tag	UNP Q7NGF2
MA	21	LEU	-	expression tag	UNP Q7NGF2
MA	22	SER	-	expression tag	UNP Q7NGF2
MA	23	PRO	-	expression tag	UNP Q7NGF2
MA	24	ALA	-	expression tag	UNP Q7NGF2
MA	25	LEU	-	expression tag	UNP Q7NGF2
MA	26	SER	-	expression tag	UNP Q7NGF2
MA	27	HIS	-	expression tag	UNP Q7NGF2
MA	28	HIS	-	expression tag	UNP Q7NGF2
MA	29	PRO	-	expression tag	UNP Q7NGF2
MA	30	TRP	-	expression tag	UNP Q7NGF2
MA	31	PRO	-	expression tag	UNP Q7NGF2
MA	32	SER	-	expression tag	UNP Q7NGF2
MA	33	LEU	-	expression tag	UNP Q7NGF2
MA	34	ASP	-	expression tag	UNP Q7NGF2
MA	35	THR	-	expression tag	UNP Q7NGF2
MA	36	TYR	-	expression tag	UNP Q7NGF2
MA	37	GLU	-	expression tag	UNP Q7NGF2
MA	38	PRO	-	expression tag	UNP Q7NGF2
MA	39	SER	-	expression tag	UNP Q7NGF2
MA	40	GLN	-	expression tag	UNP Q7NGF2
MA	41	ASN	-	expression tag	UNP Q7NGF2
MA	42	SER	-	expression tag	UNP Q7NGF2
MA	43	TYR	-	expression tag	UNP Q7NGF2
MA	44	SER	-	expression tag	UNP Q7NGF2
MA	45	VAL	-	expression tag	UNP Q7NGF2
MA	46	VAL	-	expression tag	UNP Q7NGF2
MA	47	VAL	-	expression tag	UNP Q7NGF2
MA	48	PRO	-	expression tag	UNP Q7NGF2

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Chain	Residue	Modelled	Actual	Comment	Reference
MA	49	LEU	-	expression tag	UNP Q7NGF2
MA	50	ASP	-	expression tag	UNP Q7NGF2
MA	51	ARG	-	expression tag	UNP Q7NGF2
MA	52	LEU	-	expression tag	UNP Q7NGF2
MA	53	LEU	-	expression tag	UNP Q7NGF2
MA	54	ALA	-	expression tag	UNP Q7NGF2
MA	55	GLU	-	expression tag	UNP Q7NGF2
M3	1	MET	-	initiating methionine	UNP Q7NGF2
M3	2	ASN	-	expression tag	UNP Q7NGF2
M3	3	VAL	-	expression tag	UNP Q7NGF2
M3	4	LEU	-	expression tag	UNP Q7NGF2
M3	5	THR	-	expression tag	UNP Q7NGF2
M3	6	THR	-	expression tag	UNP Q7NGF2
M3	7	SER	-	expression tag	UNP Q7NGF2
M3	8	SER	-	expression tag	UNP Q7NGF2
M3	9	GLN	-	expression tag	UNP Q7NGF2
M3	10	ARG	-	expression tag	UNP Q7NGF2
M3	11	GLY	-	expression tag	UNP Q7NGF2
M3	12	GLY	-	expression tag	UNP Q7NGF2
M3	13	LYS	-	expression tag	UNP Q7NGF2
M3	14	LEU	-	expression tag	UNP Q7NGF2
M3	15	PHE	-	expression tag	UNP Q7NGF2
M3	16	LYS	-	expression tag	UNP Q7NGF2
M3	17	VAL	-	expression tag	UNP Q7NGF2
M3	18	THR	-	expression tag	UNP Q7NGF2
M3	19	MET	-	expression tag	UNP Q7NGF2
M3	20	THR	-	expression tag	UNP Q7NGF2
M3	21	LEU	-	expression tag	UNP Q7NGF2
M3	22	SER	-	expression tag	UNP Q7NGF2
M3	23	PRO	-	expression tag	UNP Q7NGF2
M3	24	ALA	-	expression tag	UNP Q7NGF2
M3	25	LEU	-	expression tag	UNP Q7NGF2
M3	26	SER	-	expression tag	UNP Q7NGF2
M3	27	HIS	-	expression tag	UNP Q7NGF2
M3	28	HIS	-	expression tag	UNP Q7NGF2
M3	29	PRO	-	expression tag	UNP Q7NGF2
M3	30	TRP	-	expression tag	UNP Q7NGF2
M3	31	PRO	-	expression tag	UNP Q7NGF2
M3	32	SER	-	expression tag	UNP Q7NGF2
M3	33	LEU	-	expression tag	UNP Q7NGF2
M3	34	ASP	-	expression tag	UNP Q7NGF2
M3	35	THR	-	expression tag	UNP Q7NGF2

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Chain	Residue	Modelled	Actual	Comment	Reference
M3	36	TYR	-	expression tag	UNP Q7NGF2
M3	37	GLU	-	expression tag	UNP Q7NGF2
M3	38	PRO	-	expression tag	UNP Q7NGF2
M3	39	SER	-	expression tag	UNP Q7NGF2
M3	40	GLN	-	expression tag	UNP Q7NGF2
M3	41	ASN	-	expression tag	UNP Q7NGF2
M3	42	SER	-	expression tag	UNP Q7NGF2
M3	43	TYR	-	expression tag	UNP Q7NGF2
M3	44	SER	-	expression tag	UNP Q7NGF2
M3	45	VAL	-	expression tag	UNP Q7NGF2
M3	46	VAL	-	expression tag	UNP Q7NGF2
M3	47	VAL	-	expression tag	UNP Q7NGF2
M3	48	PRO	-	expression tag	UNP Q7NGF2
M3	49	LEU	-	expression tag	UNP Q7NGF2
M3	50	ASP	-	expression tag	UNP Q7NGF2
M3	51	ARG	-	expression tag	UNP Q7NGF2
M3	52	LEU	-	expression tag	UNP Q7NGF2
M3	53	LEU	-	expression tag	UNP Q7NGF2
M3	54	ALA	-	expression tag	UNP Q7NGF2
M3	55	GLU	-	expression tag	UNP Q7NGF2
M4	1	MET	-	initiating methionine	UNP Q7NGF2
M4	2	ASN	-	expression tag	UNP Q7NGF2
M4	3	VAL	-	expression tag	UNP Q7NGF2
M4	4	LEU	-	expression tag	UNP Q7NGF2
M4	5	THR	-	expression tag	UNP Q7NGF2
M4	6	THR	-	expression tag	UNP Q7NGF2
M4	7	SER	-	expression tag	UNP Q7NGF2
M4	8	SER	-	expression tag	UNP Q7NGF2
M4	9	GLN	-	expression tag	UNP Q7NGF2
M4	10	ARG	-	expression tag	UNP Q7NGF2
M4	11	GLY	-	expression tag	UNP Q7NGF2
M4	12	GLY	-	expression tag	UNP Q7NGF2
M4	13	LYS	-	expression tag	UNP Q7NGF2
M4	14	LEU	-	expression tag	UNP Q7NGF2
M4	15	PHE	-	expression tag	UNP Q7NGF2
M4	16	LYS	-	expression tag	UNP Q7NGF2
M4	17	VAL	-	expression tag	UNP Q7NGF2
M4	18	THR	-	expression tag	UNP Q7NGF2
M4	19	MET	-	expression tag	UNP Q7NGF2
M4	20	THR	-	expression tag	UNP Q7NGF2
M4	21	LEU	-	expression tag	UNP Q7NGF2
M4	22	SER	-	expression tag	UNP Q7NGF2

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Chain	Residue	Modelled	Actual	Comment	Reference
M4	23	PRO	-	expression tag	UNP Q7NGF2
M4	24	ALA	-	expression tag	UNP Q7NGF2
M4	25	LEU	-	expression tag	UNP Q7NGF2
M4	26	SER	-	expression tag	UNP Q7NGF2
M4	27	HIS	-	expression tag	UNP Q7NGF2
M4	28	HIS	-	expression tag	UNP Q7NGF2
M4	29	PRO	-	expression tag	UNP Q7NGF2
M4	30	TRP	-	expression tag	UNP Q7NGF2
M4	31	PRO	-	expression tag	UNP Q7NGF2
M4	32	SER	-	expression tag	UNP Q7NGF2
M4	33	LEU	-	expression tag	UNP Q7NGF2
M4	34	ASP	-	expression tag	UNP Q7NGF2
M4	35	THR	-	expression tag	UNP Q7NGF2
M4	36	TYR	-	expression tag	UNP Q7NGF2
M4	37	GLU	-	expression tag	UNP Q7NGF2
M4	38	PRO	-	expression tag	UNP Q7NGF2
M4	39	SER	-	expression tag	UNP Q7NGF2
M4	40	GLN	-	expression tag	UNP Q7NGF2
M4	41	ASN	-	expression tag	UNP Q7NGF2
M4	42	SER	-	expression tag	UNP Q7NGF2
M4	43	TYR	-	expression tag	UNP Q7NGF2
M4	44	SER	-	expression tag	UNP Q7NGF2
M4	45	VAL	-	expression tag	UNP Q7NGF2
M4	46	VAL	-	expression tag	UNP Q7NGF2
M4	47	VAL	-	expression tag	UNP Q7NGF2
M4	48	PRO	-	expression tag	UNP Q7NGF2
M4	49	LEU	-	expression tag	UNP Q7NGF2
M4	50	ASP	-	expression tag	UNP Q7NGF2
M4	51	ARG	-	expression tag	UNP Q7NGF2
M4	52	LEU	-	expression tag	UNP Q7NGF2
M4	53	LEU	-	expression tag	UNP Q7NGF2
M4	54	ALA	-	expression tag	UNP Q7NGF2
M4	55	GLU	-	expression tag	UNP Q7NGF2
M8	1	MET	-	initiating methionine	UNP Q7NGF2
M8	2	ASN	-	expression tag	UNP Q7NGF2
M8	3	VAL	-	expression tag	UNP Q7NGF2
M8	4	LEU	-	expression tag	UNP Q7NGF2
M8	5	THR	-	expression tag	UNP Q7NGF2
M8	6	THR	-	expression tag	UNP Q7NGF2
M8	7	SER	-	expression tag	UNP Q7NGF2
M8	8	SER	-	expression tag	UNP Q7NGF2
M8	9	GLN	-	expression tag	UNP Q7NGF2

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Chain	Residue	Modelled	Actual	Comment	Reference
M8	10	ARG	-	expression tag	UNP Q7NGF2
M8	11	GLY	-	expression tag	UNP Q7NGF2
M8	12	GLY	-	expression tag	UNP Q7NGF2
M8	13	LYS	-	expression tag	UNP Q7NGF2
M8	14	LEU	-	expression tag	UNP Q7NGF2
M8	15	PHE	-	expression tag	UNP Q7NGF2
M8	16	LYS	-	expression tag	UNP Q7NGF2
M8	17	VAL	-	expression tag	UNP Q7NGF2
M8	18	THR	-	expression tag	UNP Q7NGF2
M8	19	MET	-	expression tag	UNP Q7NGF2
M8	20	THR	-	expression tag	UNP Q7NGF2
M8	21	LEU	-	expression tag	UNP Q7NGF2
M8	22	SER	-	expression tag	UNP Q7NGF2
M8	23	PRO	-	expression tag	UNP Q7NGF2
M8	24	ALA	-	expression tag	UNP Q7NGF2
M8	25	LEU	-	expression tag	UNP Q7NGF2
M8	26	SER	-	expression tag	UNP Q7NGF2
M8	27	HIS	-	expression tag	UNP Q7NGF2
M8	28	HIS	-	expression tag	UNP Q7NGF2
M8	29	PRO	-	expression tag	UNP Q7NGF2
M8	30	TRP	-	expression tag	UNP Q7NGF2
M8	31	PRO	-	expression tag	UNP Q7NGF2
M8	32	SER	-	expression tag	UNP Q7NGF2
M8	33	LEU	-	expression tag	UNP Q7NGF2
M8	34	ASP	-	expression tag	UNP Q7NGF2
M8	35	THR	-	expression tag	UNP Q7NGF2
M8	36	TYR	-	expression tag	UNP Q7NGF2
M8	37	GLU	-	expression tag	UNP Q7NGF2
M8	38	PRO	-	expression tag	UNP Q7NGF2
M8	39	SER	-	expression tag	UNP Q7NGF2
M8	40	GLN	-	expression tag	UNP Q7NGF2
M8	41	ASN	-	expression tag	UNP Q7NGF2
M8	42	SER	-	expression tag	UNP Q7NGF2
M8	43	TYR	-	expression tag	UNP Q7NGF2
M8	44	SER	-	expression tag	UNP Q7NGF2
M8	45	VAL	-	expression tag	UNP Q7NGF2
M8	46	VAL	-	expression tag	UNP Q7NGF2
M8	47	VAL	-	expression tag	UNP Q7NGF2
M8	48	PRO	-	expression tag	UNP Q7NGF2
M8	49	LEU	-	expression tag	UNP Q7NGF2
M8	50	ASP	-	expression tag	UNP Q7NGF2
M8	51	ARG	-	expression tag	UNP Q7NGF2

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Chain	Residue	Modelled	Actual	Comment	Reference
M8	52	LEU	-	expression tag	UNP Q7NGF2
M8	53	LEU	-	expression tag	UNP Q7NGF2
M8	54	ALA	-	expression tag	UNP Q7NGF2
M8	55	GLU	-	expression tag	UNP Q7NGF2
M9	1	MET	-	initiating methionine	UNP Q7NGF2
M9	2	ASN	-	expression tag	UNP Q7NGF2
M9	3	VAL	-	expression tag	UNP Q7NGF2
M9	4	LEU	-	expression tag	UNP Q7NGF2
M9	5	THR	-	expression tag	UNP Q7NGF2
M9	6	THR	-	expression tag	UNP Q7NGF2
M9	7	SER	-	expression tag	UNP Q7NGF2
M9	8	SER	-	expression tag	UNP Q7NGF2
M9	9	GLN	-	expression tag	UNP Q7NGF2
M9	10	ARG	-	expression tag	UNP Q7NGF2
M9	11	GLY	-	expression tag	UNP Q7NGF2
M9	12	GLY	-	expression tag	UNP Q7NGF2
M9	13	LYS	-	expression tag	UNP Q7NGF2
M9	14	LEU	-	expression tag	UNP Q7NGF2
M9	15	PHE	-	expression tag	UNP Q7NGF2
M9	16	LYS	-	expression tag	UNP Q7NGF2
M9	17	VAL	-	expression tag	UNP Q7NGF2
M9	18	THR	-	expression tag	UNP Q7NGF2
M9	19	MET	-	expression tag	UNP Q7NGF2
M9	20	THR	-	expression tag	UNP Q7NGF2
M9	21	LEU	-	expression tag	UNP Q7NGF2
M9	22	SER	-	expression tag	UNP Q7NGF2
M9	23	PRO	-	expression tag	UNP Q7NGF2
M9	24	ALA	-	expression tag	UNP Q7NGF2
M9	25	LEU	-	expression tag	UNP Q7NGF2
M9	26	SER	-	expression tag	UNP Q7NGF2
M9	27	HIS	-	expression tag	UNP Q7NGF2
M9	28	HIS	-	expression tag	UNP Q7NGF2
M9	29	PRO	-	expression tag	UNP Q7NGF2
M9	30	TRP	-	expression tag	UNP Q7NGF2
M9	31	PRO	-	expression tag	UNP Q7NGF2
M9	32	SER	-	expression tag	UNP Q7NGF2
M9	33	LEU	-	expression tag	UNP Q7NGF2
M9	34	ASP	-	expression tag	UNP Q7NGF2
M9	35	THR	-	expression tag	UNP Q7NGF2
M9	36	TYR	-	expression tag	UNP Q7NGF2
M9	37	GLU	-	expression tag	UNP Q7NGF2
M9	38	PRO	-	expression tag	UNP Q7NGF2

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Chain	Residue	Modelled	Actual	Comment	Reference
M9	39	SER	-	expression tag	UNP Q7NGF2
M9	40	GLN	-	expression tag	UNP Q7NGF2
M9	41	ASN	-	expression tag	UNP Q7NGF2
M9	42	SER	-	expression tag	UNP Q7NGF2
M9	43	TYR	-	expression tag	UNP Q7NGF2
M9	44	SER	-	expression tag	UNP Q7NGF2
M9	45	VAL	-	expression tag	UNP Q7NGF2
M9	46	VAL	-	expression tag	UNP Q7NGF2
M9	47	VAL	-	expression tag	UNP Q7NGF2
M9	48	PRO	-	expression tag	UNP Q7NGF2
M9	49	LEU	-	expression tag	UNP Q7NGF2
M9	50	ASP	-	expression tag	UNP Q7NGF2
M9	51	ARG	-	expression tag	UNP Q7NGF2
M9	52	LEU	-	expression tag	UNP Q7NGF2
M9	53	LEU	-	expression tag	UNP Q7NGF2
M9	54	ALA	-	expression tag	UNP Q7NGF2
M9	55	GLU	-	expression tag	UNP Q7NGF2
M1	1	MET	-	initiating methionine	UNP Q7NGF2
M1	2	ASN	-	expression tag	UNP Q7NGF2
M1	3	VAL	-	expression tag	UNP Q7NGF2
M1	4	LEU	-	expression tag	UNP Q7NGF2
M1	5	THR	-	expression tag	UNP Q7NGF2
M1	6	THR	-	expression tag	UNP Q7NGF2
M1	7	SER	-	expression tag	UNP Q7NGF2
M1	8	SER	-	expression tag	UNP Q7NGF2
M1	9	GLN	-	expression tag	UNP Q7NGF2
M1	10	ARG	-	expression tag	UNP Q7NGF2
M1	11	GLY	-	expression tag	UNP Q7NGF2
M1	12	GLY	-	expression tag	UNP Q7NGF2
M1	13	LYS	-	expression tag	UNP Q7NGF2
M1	14	LEU	-	expression tag	UNP Q7NGF2
M1	15	PHE	-	expression tag	UNP Q7NGF2
M1	16	LYS	-	expression tag	UNP Q7NGF2
M1	17	VAL	-	expression tag	UNP Q7NGF2
M1	18	THR	-	expression tag	UNP Q7NGF2
M1	19	MET	-	expression tag	UNP Q7NGF2
M1	20	THR	-	expression tag	UNP Q7NGF2
M1	21	LEU	-	expression tag	UNP Q7NGF2
M1	22	SER	-	expression tag	UNP Q7NGF2
M1	23	PRO	-	expression tag	UNP Q7NGF2
M1	24	ALA	-	expression tag	UNP Q7NGF2
M1	25	LEU	-	expression tag	UNP Q7NGF2

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Chain	Residue	Modelled	Actual	Comment	Reference
M1	26	SER	-	expression tag	UNP Q7NGF2
M1	27	HIS	-	expression tag	UNP Q7NGF2
M1	28	HIS	-	expression tag	UNP Q7NGF2
M1	29	PRO	-	expression tag	UNP Q7NGF2
M1	30	TRP	-	expression tag	UNP Q7NGF2
M1	31	PRO	-	expression tag	UNP Q7NGF2
M1	32	SER	-	expression tag	UNP Q7NGF2
M1	33	LEU	-	expression tag	UNP Q7NGF2
M1	34	ASP	-	expression tag	UNP Q7NGF2
M1	35	THR	-	expression tag	UNP Q7NGF2
M1	36	TYR	-	expression tag	UNP Q7NGF2
M1	37	GLU	-	expression tag	UNP Q7NGF2
M1	38	PRO	-	expression tag	UNP Q7NGF2
M1	39	SER	-	expression tag	UNP Q7NGF2
M1	40	GLN	-	expression tag	UNP Q7NGF2
M1	41	ASN	-	expression tag	UNP Q7NGF2
M1	42	SER	-	expression tag	UNP Q7NGF2
M1	43	TYR	-	expression tag	UNP Q7NGF2
M1	44	SER	-	expression tag	UNP Q7NGF2
M1	45	VAL	-	expression tag	UNP Q7NGF2
M1	46	VAL	-	expression tag	UNP Q7NGF2
M1	47	VAL	-	expression tag	UNP Q7NGF2
M1	48	PRO	-	expression tag	UNP Q7NGF2
M1	49	LEU	-	expression tag	UNP Q7NGF2
M1	50	ASP	-	expression tag	UNP Q7NGF2
M1	51	ARG	-	expression tag	UNP Q7NGF2
M1	52	LEU	-	expression tag	UNP Q7NGF2
M1	53	LEU	-	expression tag	UNP Q7NGF2
M1	54	ALA	-	expression tag	UNP Q7NGF2
M1	55	GLU	-	expression tag	UNP Q7NGF2

- Molecule 5 is a protein called Phycocyanin-associated rod linker protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	NA	74	Total	C	N	O	S	0	0
			578	361	104	111	2		
5	N3	74	Total	C	N	O	S	0	0
			578	361	104	111	2		
5	Z4	74	Total	C	N	O	S	0	0
			578	361	104	111	2		
5	N9	74	Total	C	N	O	S	0	0
			578	361	104	111	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Z8	74	Total	C	N	O	S	0	0
			578	361	104	111	2		
5	N1	74	Total	C	N	O	S	0	0
			578	361	104	111	2		

There are 336 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
NA	1	MET	-	initiating methionine	UNP Q7NM19
NA	2	SER	-	expression tag	UNP Q7NM19
NA	3	VAL	-	expression tag	UNP Q7NM19
NA	4	LEU	-	expression tag	UNP Q7NM19
NA	5	THR	-	expression tag	UNP Q7NM19
NA	6	GLY	-	expression tag	UNP Q7NM19
NA	7	ASP	-	expression tag	UNP Q7NM19
NA	8	ASN	-	expression tag	UNP Q7NM19
NA	9	GLN	-	expression tag	UNP Q7NM19
NA	10	GLN	-	expression tag	UNP Q7NM19
NA	11	ARG	-	expression tag	UNP Q7NM19
NA	12	GLY	-	expression tag	UNP Q7NM19
NA	13	SER	-	expression tag	UNP Q7NM19
NA	14	LYS	-	expression tag	UNP Q7NM19
NA	15	LEU	-	expression tag	UNP Q7NM19
NA	16	PHE	-	expression tag	UNP Q7NM19
NA	17	LYS	-	expression tag	UNP Q7NM19
NA	18	ILE	-	expression tag	UNP Q7NM19
NA	19	THR	-	expression tag	UNP Q7NM19
NA	20	ILE	-	expression tag	UNP Q7NM19
NA	21	ALA	-	expression tag	UNP Q7NM19
NA	22	LEU	-	expression tag	UNP Q7NM19
NA	23	SER	-	expression tag	UNP Q7NM19
NA	24	PRO	-	expression tag	UNP Q7NM19
NA	25	THR	-	expression tag	UNP Q7NM19
NA	26	LEU	-	expression tag	UNP Q7NM19
NA	27	ALA	-	expression tag	UNP Q7NM19
NA	28	HIS	-	expression tag	UNP Q7NM19
NA	29	HIS	-	expression tag	UNP Q7NM19
NA	30	PRO	-	expression tag	UNP Q7NM19
NA	31	TRP	-	expression tag	UNP Q7NM19
NA	32	PRO	-	expression tag	UNP Q7NM19
NA	33	GLY	-	expression tag	UNP Q7NM19
NA	34	LEU	-	expression tag	UNP Q7NM19

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Chain	Residue	Modelled	Actual	Comment	Reference
NA	35	ASP	-	expression tag	UNP Q7NM19
NA	36	THR	-	expression tag	UNP Q7NM19
NA	37	HIS	-	expression tag	UNP Q7NM19
NA	38	GLU	-	expression tag	UNP Q7NM19
NA	39	PRO	-	expression tag	UNP Q7NM19
NA	40	SER	-	expression tag	UNP Q7NM19
NA	41	GLN	-	expression tag	UNP Q7NM19
NA	42	SER	-	expression tag	UNP Q7NM19
NA	43	SER	-	expression tag	UNP Q7NM19
NA	44	TYR	-	expression tag	UNP Q7NM19
NA	45	SER	-	expression tag	UNP Q7NM19
NA	46	THR	-	expression tag	UNP Q7NM19
NA	47	ILE	-	expression tag	UNP Q7NM19
NA	48	VAL	-	expression tag	UNP Q7NM19
NA	49	SER	-	expression tag	UNP Q7NM19
NA	50	LEU	-	expression tag	UNP Q7NM19
NA	51	GLU	-	expression tag	UNP Q7NM19
NA	52	ARG	-	expression tag	UNP Q7NM19
NA	53	LEU	-	expression tag	UNP Q7NM19
NA	54	LEU	-	expression tag	UNP Q7NM19
NA	55	PRO	-	expression tag	UNP Q7NM19
NA	56	GLU	-	expression tag	UNP Q7NM19
N3	1	MET	-	initiating methionine	UNP Q7NM19
N3	2	SER	-	expression tag	UNP Q7NM19
N3	3	VAL	-	expression tag	UNP Q7NM19
N3	4	LEU	-	expression tag	UNP Q7NM19
N3	5	THR	-	expression tag	UNP Q7NM19
N3	6	GLY	-	expression tag	UNP Q7NM19
N3	7	ASP	-	expression tag	UNP Q7NM19
N3	8	ASN	-	expression tag	UNP Q7NM19
N3	9	GLN	-	expression tag	UNP Q7NM19
N3	10	GLN	-	expression tag	UNP Q7NM19
N3	11	ARG	-	expression tag	UNP Q7NM19
N3	12	GLY	-	expression tag	UNP Q7NM19
N3	13	SER	-	expression tag	UNP Q7NM19
N3	14	LYS	-	expression tag	UNP Q7NM19
N3	15	LEU	-	expression tag	UNP Q7NM19
N3	16	PHE	-	expression tag	UNP Q7NM19
N3	17	LYS	-	expression tag	UNP Q7NM19
N3	18	ILE	-	expression tag	UNP Q7NM19
N3	19	THR	-	expression tag	UNP Q7NM19
N3	20	ILE	-	expression tag	UNP Q7NM19

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Chain	Residue	Modelled	Actual	Comment	Reference
N3	21	ALA	-	expression tag	UNP Q7NM19
N3	22	LEU	-	expression tag	UNP Q7NM19
N3	23	SER	-	expression tag	UNP Q7NM19
N3	24	PRO	-	expression tag	UNP Q7NM19
N3	25	THR	-	expression tag	UNP Q7NM19
N3	26	LEU	-	expression tag	UNP Q7NM19
N3	27	ALA	-	expression tag	UNP Q7NM19
N3	28	HIS	-	expression tag	UNP Q7NM19
N3	29	HIS	-	expression tag	UNP Q7NM19
N3	30	PRO	-	expression tag	UNP Q7NM19
N3	31	TRP	-	expression tag	UNP Q7NM19
N3	32	PRO	-	expression tag	UNP Q7NM19
N3	33	GLY	-	expression tag	UNP Q7NM19
N3	34	LEU	-	expression tag	UNP Q7NM19
N3	35	ASP	-	expression tag	UNP Q7NM19
N3	36	THR	-	expression tag	UNP Q7NM19
N3	37	HIS	-	expression tag	UNP Q7NM19
N3	38	GLU	-	expression tag	UNP Q7NM19
N3	39	PRO	-	expression tag	UNP Q7NM19
N3	40	SER	-	expression tag	UNP Q7NM19
N3	41	GLN	-	expression tag	UNP Q7NM19
N3	42	SER	-	expression tag	UNP Q7NM19
N3	43	SER	-	expression tag	UNP Q7NM19
N3	44	TYR	-	expression tag	UNP Q7NM19
N3	45	SER	-	expression tag	UNP Q7NM19
N3	46	THR	-	expression tag	UNP Q7NM19
N3	47	ILE	-	expression tag	UNP Q7NM19
N3	48	VAL	-	expression tag	UNP Q7NM19
N3	49	SER	-	expression tag	UNP Q7NM19
N3	50	LEU	-	expression tag	UNP Q7NM19
N3	51	GLU	-	expression tag	UNP Q7NM19
N3	52	ARG	-	expression tag	UNP Q7NM19
N3	53	LEU	-	expression tag	UNP Q7NM19
N3	54	LEU	-	expression tag	UNP Q7NM19
N3	55	PRO	-	expression tag	UNP Q7NM19
N3	56	GLU	-	expression tag	UNP Q7NM19
Z4	1	MET	-	initiating methionine	UNP Q7NM19
Z4	2	SER	-	expression tag	UNP Q7NM19
Z4	3	VAL	-	expression tag	UNP Q7NM19
Z4	4	LEU	-	expression tag	UNP Q7NM19
Z4	5	THR	-	expression tag	UNP Q7NM19
Z4	6	GLY	-	expression tag	UNP Q7NM19

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Chain	Residue	Modelled	Actual	Comment	Reference
Z4	7	ASP	-	expression tag	UNP Q7NM19
Z4	8	ASN	-	expression tag	UNP Q7NM19
Z4	9	GLN	-	expression tag	UNP Q7NM19
Z4	10	GLN	-	expression tag	UNP Q7NM19
Z4	11	ARG	-	expression tag	UNP Q7NM19
Z4	12	GLY	-	expression tag	UNP Q7NM19
Z4	13	SER	-	expression tag	UNP Q7NM19
Z4	14	LYS	-	expression tag	UNP Q7NM19
Z4	15	LEU	-	expression tag	UNP Q7NM19
Z4	16	PHE	-	expression tag	UNP Q7NM19
Z4	17	LYS	-	expression tag	UNP Q7NM19
Z4	18	ILE	-	expression tag	UNP Q7NM19
Z4	19	THR	-	expression tag	UNP Q7NM19
Z4	20	ILE	-	expression tag	UNP Q7NM19
Z4	21	ALA	-	expression tag	UNP Q7NM19
Z4	22	LEU	-	expression tag	UNP Q7NM19
Z4	23	SER	-	expression tag	UNP Q7NM19
Z4	24	PRO	-	expression tag	UNP Q7NM19
Z4	25	THR	-	expression tag	UNP Q7NM19
Z4	26	LEU	-	expression tag	UNP Q7NM19
Z4	27	ALA	-	expression tag	UNP Q7NM19
Z4	28	HIS	-	expression tag	UNP Q7NM19
Z4	29	HIS	-	expression tag	UNP Q7NM19
Z4	30	PRO	-	expression tag	UNP Q7NM19
Z4	31	TRP	-	expression tag	UNP Q7NM19
Z4	32	PRO	-	expression tag	UNP Q7NM19
Z4	33	GLY	-	expression tag	UNP Q7NM19
Z4	34	LEU	-	expression tag	UNP Q7NM19
Z4	35	ASP	-	expression tag	UNP Q7NM19
Z4	36	THR	-	expression tag	UNP Q7NM19
Z4	37	HIS	-	expression tag	UNP Q7NM19
Z4	38	GLU	-	expression tag	UNP Q7NM19
Z4	39	PRO	-	expression tag	UNP Q7NM19
Z4	40	SER	-	expression tag	UNP Q7NM19
Z4	41	GLN	-	expression tag	UNP Q7NM19
Z4	42	SER	-	expression tag	UNP Q7NM19
Z4	43	SER	-	expression tag	UNP Q7NM19
Z4	44	TYR	-	expression tag	UNP Q7NM19
Z4	45	SER	-	expression tag	UNP Q7NM19
Z4	46	THR	-	expression tag	UNP Q7NM19
Z4	47	ILE	-	expression tag	UNP Q7NM19
Z4	48	VAL	-	expression tag	UNP Q7NM19

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Chain	Residue	Modelled	Actual	Comment	Reference
Z4	49	SER	-	expression tag	UNP Q7NM19
Z4	50	LEU	-	expression tag	UNP Q7NM19
Z4	51	GLU	-	expression tag	UNP Q7NM19
Z4	52	ARG	-	expression tag	UNP Q7NM19
Z4	53	LEU	-	expression tag	UNP Q7NM19
Z4	54	LEU	-	expression tag	UNP Q7NM19
Z4	55	PRO	-	expression tag	UNP Q7NM19
Z4	56	GLU	-	expression tag	UNP Q7NM19
N9	1	MET	-	initiating methionine	UNP Q7NM19
N9	2	SER	-	expression tag	UNP Q7NM19
N9	3	VAL	-	expression tag	UNP Q7NM19
N9	4	LEU	-	expression tag	UNP Q7NM19
N9	5	THR	-	expression tag	UNP Q7NM19
N9	6	GLY	-	expression tag	UNP Q7NM19
N9	7	ASP	-	expression tag	UNP Q7NM19
N9	8	ASN	-	expression tag	UNP Q7NM19
N9	9	GLN	-	expression tag	UNP Q7NM19
N9	10	GLN	-	expression tag	UNP Q7NM19
N9	11	ARG	-	expression tag	UNP Q7NM19
N9	12	GLY	-	expression tag	UNP Q7NM19
N9	13	SER	-	expression tag	UNP Q7NM19
N9	14	LYS	-	expression tag	UNP Q7NM19
N9	15	LEU	-	expression tag	UNP Q7NM19
N9	16	PHE	-	expression tag	UNP Q7NM19
N9	17	LYS	-	expression tag	UNP Q7NM19
N9	18	ILE	-	expression tag	UNP Q7NM19
N9	19	THR	-	expression tag	UNP Q7NM19
N9	20	ILE	-	expression tag	UNP Q7NM19
N9	21	ALA	-	expression tag	UNP Q7NM19
N9	22	LEU	-	expression tag	UNP Q7NM19
N9	23	SER	-	expression tag	UNP Q7NM19
N9	24	PRO	-	expression tag	UNP Q7NM19
N9	25	THR	-	expression tag	UNP Q7NM19
N9	26	LEU	-	expression tag	UNP Q7NM19
N9	27	ALA	-	expression tag	UNP Q7NM19
N9	28	HIS	-	expression tag	UNP Q7NM19
N9	29	HIS	-	expression tag	UNP Q7NM19
N9	30	PRO	-	expression tag	UNP Q7NM19
N9	31	TRP	-	expression tag	UNP Q7NM19
N9	32	PRO	-	expression tag	UNP Q7NM19
N9	33	GLY	-	expression tag	UNP Q7NM19
N9	34	LEU	-	expression tag	UNP Q7NM19

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Chain	Residue	Modelled	Actual	Comment	Reference
N9	35	ASP	-	expression tag	UNP Q7NM19
N9	36	THR	-	expression tag	UNP Q7NM19
N9	37	HIS	-	expression tag	UNP Q7NM19
N9	38	GLU	-	expression tag	UNP Q7NM19
N9	39	PRO	-	expression tag	UNP Q7NM19
N9	40	SER	-	expression tag	UNP Q7NM19
N9	41	GLN	-	expression tag	UNP Q7NM19
N9	42	SER	-	expression tag	UNP Q7NM19
N9	43	SER	-	expression tag	UNP Q7NM19
N9	44	TYR	-	expression tag	UNP Q7NM19
N9	45	SER	-	expression tag	UNP Q7NM19
N9	46	THR	-	expression tag	UNP Q7NM19
N9	47	ILE	-	expression tag	UNP Q7NM19
N9	48	VAL	-	expression tag	UNP Q7NM19
N9	49	SER	-	expression tag	UNP Q7NM19
N9	50	LEU	-	expression tag	UNP Q7NM19
N9	51	GLU	-	expression tag	UNP Q7NM19
N9	52	ARG	-	expression tag	UNP Q7NM19
N9	53	LEU	-	expression tag	UNP Q7NM19
N9	54	LEU	-	expression tag	UNP Q7NM19
N9	55	PRO	-	expression tag	UNP Q7NM19
N9	56	GLU	-	expression tag	UNP Q7NM19
Z8	1	MET	-	initiating methionine	UNP Q7NM19
Z8	2	SER	-	expression tag	UNP Q7NM19
Z8	3	VAL	-	expression tag	UNP Q7NM19
Z8	4	LEU	-	expression tag	UNP Q7NM19
Z8	5	THR	-	expression tag	UNP Q7NM19
Z8	6	GLY	-	expression tag	UNP Q7NM19
Z8	7	ASP	-	expression tag	UNP Q7NM19
Z8	8	ASN	-	expression tag	UNP Q7NM19
Z8	9	GLN	-	expression tag	UNP Q7NM19
Z8	10	GLN	-	expression tag	UNP Q7NM19
Z8	11	ARG	-	expression tag	UNP Q7NM19
Z8	12	GLY	-	expression tag	UNP Q7NM19
Z8	13	SER	-	expression tag	UNP Q7NM19
Z8	14	LYS	-	expression tag	UNP Q7NM19
Z8	15	LEU	-	expression tag	UNP Q7NM19
Z8	16	PHE	-	expression tag	UNP Q7NM19
Z8	17	LYS	-	expression tag	UNP Q7NM19
Z8	18	ILE	-	expression tag	UNP Q7NM19
Z8	19	THR	-	expression tag	UNP Q7NM19
Z8	20	ILE	-	expression tag	UNP Q7NM19

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Chain	Residue	Modelled	Actual	Comment	Reference
Z8	21	ALA	-	expression tag	UNP Q7NM19
Z8	22	LEU	-	expression tag	UNP Q7NM19
Z8	23	SER	-	expression tag	UNP Q7NM19
Z8	24	PRO	-	expression tag	UNP Q7NM19
Z8	25	THR	-	expression tag	UNP Q7NM19
Z8	26	LEU	-	expression tag	UNP Q7NM19
Z8	27	ALA	-	expression tag	UNP Q7NM19
Z8	28	HIS	-	expression tag	UNP Q7NM19
Z8	29	HIS	-	expression tag	UNP Q7NM19
Z8	30	PRO	-	expression tag	UNP Q7NM19
Z8	31	TRP	-	expression tag	UNP Q7NM19
Z8	32	PRO	-	expression tag	UNP Q7NM19
Z8	33	GLY	-	expression tag	UNP Q7NM19
Z8	34	LEU	-	expression tag	UNP Q7NM19
Z8	35	ASP	-	expression tag	UNP Q7NM19
Z8	36	THR	-	expression tag	UNP Q7NM19
Z8	37	HIS	-	expression tag	UNP Q7NM19
Z8	38	GLU	-	expression tag	UNP Q7NM19
Z8	39	PRO	-	expression tag	UNP Q7NM19
Z8	40	SER	-	expression tag	UNP Q7NM19
Z8	41	GLN	-	expression tag	UNP Q7NM19
Z8	42	SER	-	expression tag	UNP Q7NM19
Z8	43	SER	-	expression tag	UNP Q7NM19
Z8	44	TYR	-	expression tag	UNP Q7NM19
Z8	45	SER	-	expression tag	UNP Q7NM19
Z8	46	THR	-	expression tag	UNP Q7NM19
Z8	47	ILE	-	expression tag	UNP Q7NM19
Z8	48	VAL	-	expression tag	UNP Q7NM19
Z8	49	SER	-	expression tag	UNP Q7NM19
Z8	50	LEU	-	expression tag	UNP Q7NM19
Z8	51	GLU	-	expression tag	UNP Q7NM19
Z8	52	ARG	-	expression tag	UNP Q7NM19
Z8	53	LEU	-	expression tag	UNP Q7NM19
Z8	54	LEU	-	expression tag	UNP Q7NM19
Z8	55	PRO	-	expression tag	UNP Q7NM19
Z8	56	GLU	-	expression tag	UNP Q7NM19
N1	1	MET	-	initiating methionine	UNP Q7NM19
N1	2	SER	-	expression tag	UNP Q7NM19
N1	3	VAL	-	expression tag	UNP Q7NM19
N1	4	LEU	-	expression tag	UNP Q7NM19
N1	5	THR	-	expression tag	UNP Q7NM19
N1	6	GLY	-	expression tag	UNP Q7NM19

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Chain	Residue	Modelled	Actual	Comment	Reference
N1	7	ASP	-	expression tag	UNP Q7NM19
N1	8	ASN	-	expression tag	UNP Q7NM19
N1	9	GLN	-	expression tag	UNP Q7NM19
N1	10	GLN	-	expression tag	UNP Q7NM19
N1	11	ARG	-	expression tag	UNP Q7NM19
N1	12	GLY	-	expression tag	UNP Q7NM19
N1	13	SER	-	expression tag	UNP Q7NM19
N1	14	LYS	-	expression tag	UNP Q7NM19
N1	15	LEU	-	expression tag	UNP Q7NM19
N1	16	PHE	-	expression tag	UNP Q7NM19
N1	17	LYS	-	expression tag	UNP Q7NM19
N1	18	ILE	-	expression tag	UNP Q7NM19
N1	19	THR	-	expression tag	UNP Q7NM19
N1	20	ILE	-	expression tag	UNP Q7NM19
N1	21	ALA	-	expression tag	UNP Q7NM19
N1	22	LEU	-	expression tag	UNP Q7NM19
N1	23	SER	-	expression tag	UNP Q7NM19
N1	24	PRO	-	expression tag	UNP Q7NM19
N1	25	THR	-	expression tag	UNP Q7NM19
N1	26	LEU	-	expression tag	UNP Q7NM19
N1	27	ALA	-	expression tag	UNP Q7NM19
N1	28	HIS	-	expression tag	UNP Q7NM19
N1	29	HIS	-	expression tag	UNP Q7NM19
N1	30	PRO	-	expression tag	UNP Q7NM19
N1	31	TRP	-	expression tag	UNP Q7NM19
N1	32	PRO	-	expression tag	UNP Q7NM19
N1	33	GLY	-	expression tag	UNP Q7NM19
N1	34	LEU	-	expression tag	UNP Q7NM19
N1	35	ASP	-	expression tag	UNP Q7NM19
N1	36	THR	-	expression tag	UNP Q7NM19
N1	37	HIS	-	expression tag	UNP Q7NM19
N1	38	GLU	-	expression tag	UNP Q7NM19
N1	39	PRO	-	expression tag	UNP Q7NM19
N1	40	SER	-	expression tag	UNP Q7NM19
N1	41	GLN	-	expression tag	UNP Q7NM19
N1	42	SER	-	expression tag	UNP Q7NM19
N1	43	SER	-	expression tag	UNP Q7NM19
N1	44	TYR	-	expression tag	UNP Q7NM19
N1	45	SER	-	expression tag	UNP Q7NM19
N1	46	THR	-	expression tag	UNP Q7NM19
N1	47	ILE	-	expression tag	UNP Q7NM19
N1	48	VAL	-	expression tag	UNP Q7NM19

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Chain	Residue	Modelled	Actual	Comment	Reference
N1	49	SER	-	expression tag	UNP Q7NM19
N1	50	LEU	-	expression tag	UNP Q7NM19
N1	51	GLU	-	expression tag	UNP Q7NM19
N1	52	ARG	-	expression tag	UNP Q7NM19
N1	53	LEU	-	expression tag	UNP Q7NM19
N1	54	LEU	-	expression tag	UNP Q7NM19
N1	55	PRO	-	expression tag	UNP Q7NM19
N1	56	GLU	-	expression tag	UNP Q7NM19

- Molecule 6 is a protein called Glr2806 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	M2	279	Total	C	N	O	S	0	0
			2190	1381	387	417	5		
6	M6	279	Total	C	N	O	S	0	0
			2190	1381	387	417	5		

- Molecule 7 is a protein called CpcD protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	N2	70	Total	C	N	O	S	0	0
			545	349	91	103	2		
7	N6	70	Total	C	N	O	S	0	0
			545	349	91	103	2		

- Molecule 8 is a protein called Allophycocyanin alpha subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	K5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	M5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	O5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	A5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	C5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	E5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	G5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	I5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	c5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	e5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	Q5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	S5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	U5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	W5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	Y5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	a5	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	A7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	O7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	Q7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	S7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	C7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	E7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	G7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	I7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	K7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	M7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	g7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	i7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	k7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	U7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	W7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	Y7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	a7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	c7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	e7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	m7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	o7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	q7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	s7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
8	u7	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		

There are 40 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
K5	61	ILE	LYS	conflict	UNP Q7NL80
M5	61	ILE	LYS	conflict	UNP Q7NL80
O5	61	ILE	LYS	conflict	UNP Q7NL80
A5	61	ILE	LYS	conflict	UNP Q7NL80
C5	61	ILE	LYS	conflict	UNP Q7NL80
E5	61	ILE	LYS	conflict	UNP Q7NL80
G5	61	ILE	LYS	conflict	UNP Q7NL80
I5	61	ILE	LYS	conflict	UNP Q7NL80
c5	61	ILE	LYS	conflict	UNP Q7NL80
e5	61	ILE	LYS	conflict	UNP Q7NL80
Q5	61	ILE	LYS	conflict	UNP Q7NL80
S5	61	ILE	LYS	conflict	UNP Q7NL80
U5	61	ILE	LYS	conflict	UNP Q7NL80
W5	61	ILE	LYS	conflict	UNP Q7NL80
Y5	61	ILE	LYS	conflict	UNP Q7NL80

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Chain	Residue	Modelled	Actual	Comment	Reference
a5	61	ILE	LYS	conflict	UNP Q7NL80
A7	61	ILE	LYS	conflict	UNP Q7NL80
O7	61	ILE	LYS	conflict	UNP Q7NL80
Q7	61	ILE	LYS	conflict	UNP Q7NL80
S7	61	ILE	LYS	conflict	UNP Q7NL80
C7	61	ILE	LYS	conflict	UNP Q7NL80
E7	61	ILE	LYS	conflict	UNP Q7NL80
G7	61	ILE	LYS	conflict	UNP Q7NL80
I7	61	ILE	LYS	conflict	UNP Q7NL80
K7	61	ILE	LYS	conflict	UNP Q7NL80
M7	61	ILE	LYS	conflict	UNP Q7NL80
g7	61	ILE	LYS	conflict	UNP Q7NL80
i7	61	ILE	LYS	conflict	UNP Q7NL80
k7	61	ILE	LYS	conflict	UNP Q7NL80
U7	61	ILE	LYS	conflict	UNP Q7NL80
W7	61	ILE	LYS	conflict	UNP Q7NL80
Y7	61	ILE	LYS	conflict	UNP Q7NL80
a7	61	ILE	LYS	conflict	UNP Q7NL80
c7	61	ILE	LYS	conflict	UNP Q7NL80
e7	61	ILE	LYS	conflict	UNP Q7NL80
m7	61	ILE	LYS	conflict	UNP Q7NL80
o7	61	ILE	LYS	conflict	UNP Q7NL80
q7	61	ILE	LYS	conflict	UNP Q7NL80
s7	61	ILE	LYS	conflict	UNP Q7NL80
u7	61	ILE	LYS	conflict	UNP Q7NL80

- Molecule 9 is a protein called Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	z5	68	Total	C	N	O	S	0	0
			538	345	98	94	1		
9	i5	68	Total	C	N	O	S	0	0
			538	345	98	94	1		
9	z7	68	Total	C	N	O	S	0	0
			538	345	98	94	1		
9	w7	68	Total	C	N	O	S	0	0
			538	345	98	94	1		
9	x7	68	Total	C	N	O	S	0	0
			538	345	98	94	1		
9	y7	68	Total	C	N	O	S	0	0
			538	345	98	94	1		

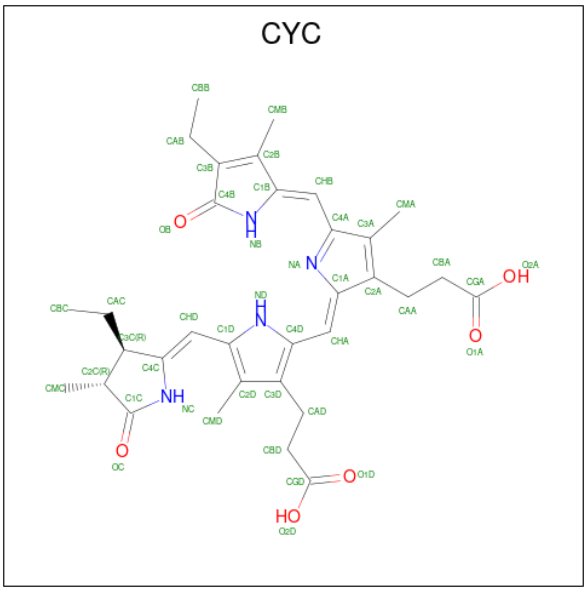
- Molecule 10 is a protein called Phycobiliprotein ApcE.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	j5	1108	Total	C	N	O	S	0	0
			8819	5593	1559	1647	20		
10	k5	1108	Total	C	N	O	S	0	0
			8819	5593	1559	1647	20		

- Molecule 11 is a protein called Glr1262 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	a9	800	Total	C	N	O	S	0	0
			6326	3959	1137	1218	12		
11	aA	800	Total	C	N	O	S	0	0
			6326	3959	1137	1218	12		

- Molecule 12 is PHYCOCYANOBILIN (CCD ID: CYC) (formula: $C_{33}H_{40}N_4O_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
12	A	1	Total	C	N	O	0
			43	33	4	6	
12	Z	1	Total	C	N	O	0
			43	33	4	6	
12	AA	1	Total	C	N	O	0
			43	33	4	6	
12	BA	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
12	BA	1	Total	C	N	O	0
			43	33	4	6	
12	CA	1	Total	C	N	O	0
			43	33	4	6	
12	DA	1	Total	C	N	O	0
			43	33	4	6	
12	DA	1	Total	C	N	O	0
			43	33	4	6	
12	EA	1	Total	C	N	O	0
			43	33	4	6	
12	FA	1	Total	C	N	O	0
			43	33	4	6	
12	GA	1	Total	C	N	O	0
			43	33	4	6	
12	HA	1	Total	C	N	O	0
			43	33	4	6	
12	HA	1	Total	C	N	O	0
			43	33	4	6	
12	IA	1	Total	C	N	O	0
			43	33	4	6	
12	JA	1	Total	C	N	O	0
			43	33	4	6	
12	JA	1	Total	C	N	O	0
			43	33	4	6	
12	KA	1	Total	C	N	O	0
			43	33	4	6	
12	LA	1	Total	C	N	O	0
			43	33	4	6	
12	LA	1	Total	C	N	O	0
			43	33	4	6	
12	OA	1	Total	C	N	O	0
			43	33	4	6	
12	PA	1	Total	C	N	O	0
			43	33	4	6	
12	PA	1	Total	C	N	O	0
			43	33	4	6	
12	QA	1	Total	C	N	O	0
			43	33	4	6	
12	RA	1	Total	C	N	O	0
			43	33	4	6	
12	RA	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms	AltConf
12	SA	1	Total C N O 43 33 4 6	0
12	TA	1	Total C N O 43 33 4 6	0
12	TA	1	Total C N O 43 33 4 6	0
12	UA	1	Total C N O 43 33 4 6	0
12	VA	1	Total C N O 43 33 4 6	0
12	VA	1	Total C N O 43 33 4 6	0
12	WA	1	Total C N O 43 33 4 6	0
12	XA	1	Total C N O 43 33 4 6	0
12	XA	1	Total C N O 43 33 4 6	0
12	YA	1	Total C N O 43 33 4 6	0
12	ZA	1	Total C N O 43 33 4 6	0
12	ZA	1	Total C N O 43 33 4 6	0
12	O1	1	Total C N O 43 33 4 6	0
12	P1	1	Total C N O 43 33 4 6	0
12	P1	1	Total C N O 43 33 4 6	0
12	Q1	1	Total C N O 43 33 4 6	0
12	R1	1	Total C N O 43 33 4 6	0
12	R1	1	Total C N O 43 33 4 6	0
12	S1	1	Total C N O 43 33 4 6	0
12	A1	1	Total C N O 43 33 4 6	0
12	G3	1	Total C N O 43 33 4 6	0

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Mol	Chain	Residues	Atoms	AltConf
12	H3	1	Total C N O 43 33 4 6	0
12	H3	1	Total C N O 43 33 4 6	0
12	I3	1	Total C N O 43 33 4 6	0
12	J3	1	Total C N O 43 33 4 6	0
12	J3	1	Total C N O 43 33 4 6	0
12	K3	1	Total C N O 43 33 4 6	0
12	G2	1	Total C N O 43 33 4 6	0
12	H2	1	Total C N O 43 33 4 6	0
12	H2	1	Total C N O 43 33 4 6	0
12	I2	1	Total C N O 43 33 4 6	0
12	J2	1	Total C N O 43 33 4 6	0
12	J2	1	Total C N O 43 33 4 6	0
12	K2	1	Total C N O 43 33 4 6	0
12	L2	1	Total C N O 43 33 4 6	0
12	L2	1	Total C N O 43 33 4 6	0
12	N2	1	Total C N O 43 33 4 6	0
12	A3	1	Total C N O 43 33 4 6	0
12	B3	1	Total C N O 43 33 4 6	0
12	B3	1	Total C N O 43 33 4 6	0
12	C3	1	Total C N O 43 33 4 6	0
12	D3	1	Total C N O 43 33 4 6	0

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Mol	Chain	Residues	Atoms				AltConf
12	D3	1	Total	C	N	O	0
			43	33	4	6	
12	E3	1	Total	C	N	O	0
			43	33	4	6	
12	F3	1	Total	C	N	O	0
			43	33	4	6	
12	F3	1	Total	C	N	O	0
			43	33	4	6	
12	Z3	1	Total	C	N	O	0
			43	33	4	6	
12	Z3	1	Total	C	N	O	0
			43	33	4	6	
12	A4	1	Total	C	N	O	0
			43	33	4	6	
12	B4	1	Total	C	N	O	0
			43	33	4	6	
12	B4	1	Total	C	N	O	0
			43	33	4	6	
12	C4	1	Total	C	N	O	0
			43	33	4	6	
12	D4	1	Total	C	N	O	0
			43	33	4	6	
12	D4	1	Total	C	N	O	0
			43	33	4	6	
12	L3	1	Total	C	N	O	0
			43	33	4	6	
12	L3	1	Total	C	N	O	0
			43	33	4	6	
12	O3	1	Total	C	N	O	0
			43	33	4	6	
12	P3	1	Total	C	N	O	0
			43	33	4	6	
12	P3	1	Total	C	N	O	0
			43	33	4	6	
12	Q3	1	Total	C	N	O	0
			43	33	4	6	
12	R3	1	Total	C	N	O	0
			43	33	4	6	
12	R3	1	Total	C	N	O	0
			43	33	4	6	
12	S3	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
12	T3	1	Total	C	N	O	0
			43	33	4	6	
12	T3	1	Total	C	N	O	0
			43	33	4	6	
12	U3	1	Total	C	N	O	0
			43	33	4	6	
12	V3	1	Total	C	N	O	0
			43	33	4	6	
12	V3	1	Total	C	N	O	0
			43	33	4	6	
12	W3	1	Total	C	N	O	0
			43	33	4	6	
12	X3	1	Total	C	N	O	0
			43	33	4	6	
12	X3	1	Total	C	N	O	0
			43	33	4	6	
12	Y3	1	Total	C	N	O	0
			43	33	4	6	
12	B1	1	Total	C	N	O	0
			43	33	4	6	
12	B1	1	Total	C	N	O	0
			43	33	4	6	
12	S4	1	Total	C	N	O	0
			43	33	4	6	
12	S4	1	Total	C	N	O	0
			43	33	4	6	
12	T4	1	Total	C	N	O	0
			43	33	4	6	
12	U4	1	Total	C	N	O	0
			43	33	4	6	
12	U4	1	Total	C	N	O	0
			43	33	4	6	
12	V4	1	Total	C	N	O	0
			43	33	4	6	
12	W4	1	Total	C	N	O	0
			43	33	4	6	
12	W4	1	Total	C	N	O	0
			43	33	4	6	
12	E4	1	Total	C	N	O	0
			43	33	4	6	
12	F4	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
12	F4	1	Total	C	N	O	0
			43	33	4	6	
12	G4	1	Total	C	N	O	0
			43	33	4	6	
12	H4	1	Total	C	N	O	0
			43	33	4	6	
12	H4	1	Total	C	N	O	0
			43	33	4	6	
12	I4	1	Total	C	N	O	0
			43	33	4	6	
12	J4	1	Total	C	N	O	0
			43	33	4	6	
12	J4	1	Total	C	N	O	0
			43	33	4	6	
12	K4	1	Total	C	N	O	0
			43	33	4	6	
12	L4	1	Total	C	N	O	0
			43	33	4	6	
12	L4	1	Total	C	N	O	0
			43	33	4	6	
12	M4	1	Total	C	N	O	0
			43	33	4	6	
12	N4	1	Total	C	N	O	0
			43	33	4	6	
12	O4	1	Total	C	N	O	0
			43	33	4	6	
12	O4	1	Total	C	N	O	0
			43	33	4	6	
12	P4	1	Total	C	N	O	0
			43	33	4	6	
12	Q4	1	Total	C	N	O	0
			43	33	4	6	
12	R4	1	Total	C	N	O	0
			43	33	4	6	
12	K5	1	Total	C	N	O	0
			43	33	4	6	
12	L5	1	Total	C	N	O	0
			43	33	4	6	
12	M5	1	Total	C	N	O	0
			43	33	4	6	
12	N5	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
12	O5	1	Total	C	N	O	0
			43	33	4	6	
12	X4	1	Total	C	N	O	0
			43	33	4	6	
12	Y4	1	Total	C	N	O	0
			43	33	4	6	
12	Z4	1	Total	C	N	O	0
			43	33	4	6	
12	A5	1	Total	C	N	O	0
			43	33	4	6	
12	B5	1	Total	C	N	O	0
			43	33	4	6	
12	C5	1	Total	C	N	O	0
			43	33	4	6	
12	D5	1	Total	C	N	O	0
			43	33	4	6	
12	E5	1	Total	C	N	O	0
			43	33	4	6	
12	F5	1	Total	C	N	O	0
			43	33	4	6	
12	G5	1	Total	C	N	O	0
			43	33	4	6	
12	H5	1	Total	C	N	O	0
			43	33	4	6	
12	I5	1	Total	C	N	O	0
			43	33	4	6	
12	J5	1	Total	C	N	O	0
			43	33	4	6	
12	C1	1	Total	C	N	O	0
			43	33	4	6	
12	c5	1	Total	C	N	O	0
			43	33	4	6	
12	d5	1	Total	C	N	O	0
			43	33	4	6	
12	e5	1	Total	C	N	O	0
			43	33	4	6	
12	f5	1	Total	C	N	O	0
			43	33	4	6	
12	P5	1	Total	C	N	O	0
			43	33	4	6	
12	Q5	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms	AltConf
12	R5	1	Total C N O 43 33 4 6	0
12	S5	1	Total C N O 43 33 4 6	0
12	T5	1	Total C N O 43 33 4 6	0
12	U5	1	Total C N O 43 33 4 6	0
12	V5	1	Total C N O 43 33 4 6	0
12	W5	1	Total C N O 43 33 4 6	0
12	X5	1	Total C N O 43 33 4 6	0
12	Y5	1	Total C N O 43 33 4 6	0
12	Z5	1	Total C N O 43 33 4 6	0
12	a5	1	Total C N O 43 33 4 6	0
12	b5	1	Total C N O 43 33 4 6	0
12	J6	1	Total C N O 43 33 4 6	0
12	J6	1	Total C N O 43 33 4 6	0
12	K6	1	Total C N O 43 33 4 6	0
12	L6	1	Total C N O 43 33 4 6	0
12	L6	1	Total C N O 43 33 4 6	0
12	N6	1	Total C N O 43 33 4 6	0
12	A7	1	Total C N O 43 33 4 6	0
12	j5	1	Total C H N O 81 33 38 4 6	0
12	j5	1	Total C N O 43 33 4 6	0
12	k5	1	Total C H N O 81 33 38 4 6	0

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Mol	Chain	Residues	Atoms	AltConf
12	k5	1	Total C N O 43 33 4 6	0
12	k5	1	Total C N O 43 33 4 6	0
12	k5	1	Total C N O 43 33 4 6	0
12	A6	1	Total C N O 43 33 4 6	0
12	B6	1	Total C N O 43 33 4 6	0
12	C6	1	Total C N O 43 33 4 6	0
12	D6	1	Total C N O 43 33 4 6	0
12	D6	1	Total C N O 43 33 4 6	0
12	E6	1	Total C N O 43 33 4 6	0
12	F6	1	Total C N O 43 33 4 6	0
12	F6	1	Total C N O 43 33 4 6	0
12	G6	1	Total C N O 43 33 4 6	0
12	H6	1	Total C N O 43 33 4 6	0
12	H6	1	Total C N O 43 33 4 6	0
12	I6	1	Total C N O 43 33 4 6	0
12	D1	1	Total C N O 43 33 4 6	0
12	D1	1	Total C N O 43 33 4 6	0
12	O7	1	Total C N O 43 33 4 6	0
12	P7	1	Total C N O 43 33 4 6	0
12	Q7	1	Total C N O 43 33 4 6	0
12	R7	1	Total C N O 43 33 4 6	0

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Mol	Chain	Residues	Atoms				AltConf
12	S7	1	Total	C	N	O	0
			43	33	4	6	
12	B7	1	Total	C	N	O	0
			43	33	4	6	
12	C7	1	Total	C	N	O	0
			43	33	4	6	
12	D7	1	Total	C	N	O	0
			43	33	4	6	
12	E7	1	Total	C	N	O	0
			43	33	4	6	
12	F7	1	Total	C	N	O	0
			43	33	4	6	
12	G7	1	Total	C	N	O	0
			43	33	4	6	
12	H7	1	Total	C	N	O	0
			43	33	4	6	
12	I7	1	Total	C	N	O	0
			43	33	4	6	
12	J7	1	Total	C	N	O	0
			43	33	4	6	
12	K7	1	Total	C	N	O	0
			43	33	4	6	
12	L7	1	Total	C	N	O	0
			43	33	4	6	
12	M7	1	Total	C	N	O	0
			43	33	4	6	
12	N7	1	Total	C	N	O	0
			43	33	4	6	
12	g7	1	Total	C	N	O	0
			43	33	4	6	
12	h7	1	Total	C	N	O	0
			43	33	4	6	
12	i7	1	Total	C	N	O	0
			43	33	4	6	
12	j7	1	Total	C	N	O	0
			43	33	4	6	
12	k7	1	Total	C	N	O	0
			43	33	4	6	
12	T7	1	Total	C	N	O	0
			43	33	4	6	
12	U7	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
12	V7	1	Total	C	N	O	0
			43	33	4	6	
12	W7	1	Total	C	N	O	0
			43	33	4	6	
12	X7	1	Total	C	N	O	0
			43	33	4	6	
12	Y7	1	Total	C	N	O	0
			43	33	4	6	
12	a7	1	Total	C	N	O	0
			43	33	4	6	
12	b7	1	Total	C	N	O	0
			43	33	4	6	
12	c7	1	Total	C	N	O	0
			43	33	4	6	
12	d7	1	Total	C	N	O	0
			43	33	4	6	
12	e7	1	Total	C	N	O	0
			43	33	4	6	
12	f7	1	Total	C	N	O	0
			43	33	4	6	
12	E1	1	Total	C	N	O	0
			43	33	4	6	
12	A8	1	Total	C	N	O	0
			43	33	4	6	
12	B8	1	Total	C	N	O	0
			43	33	4	6	
12	B8	1	Total	C	N	O	0
			43	33	4	6	
12	C8	1	Total	C	N	O	0
			43	33	4	6	
12	D8	1	Total	C	N	O	0
			43	33	4	6	
12	D8	1	Total	C	N	O	0
			43	33	4	6	
12	E8	1	Total	C	N	O	0
			43	33	4	6	
12	m7	1	Total	C	N	O	0
			43	33	4	6	
12	o7	1	Total	C	N	O	0
			43	33	4	6	
12	p7	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
12	q7	1	Total	C	N	O	0
			43	33	4	6	
12	r7	1	Total	C	N	O	0
			43	33	4	6	
12	s7	1	Total	C	N	O	0
			43	33	4	6	
12	u7	1	Total	C	N	O	0
			43	33	4	6	
12	v7	1	Total	C	N	O	0
			43	33	4	6	
12	T8	1	Total	C	N	O	0
			43	33	4	6	
12	U8	1	Total	C	N	O	0
			43	33	4	6	
12	U8	1	Total	C	N	O	0
			43	33	4	6	
12	V8	1	Total	C	N	O	0
			43	33	4	6	
12	W8	1	Total	C	N	O	0
			43	33	4	6	
12	W8	1	Total	C	N	O	0
			43	33	4	6	
12	X8	1	Total	C	N	O	0
			43	33	4	6	
12	F8	1	Total	C	N	O	0
			43	33	4	6	
12	F8	1	Total	C	N	O	0
			43	33	4	6	
12	G8	1	Total	C	N	O	0
			43	33	4	6	
12	H8	1	Total	C	N	O	0
			43	33	4	6	
12	H8	1	Total	C	N	O	0
			43	33	4	6	
12	I8	1	Total	C	N	O	0
			43	33	4	6	
12	J8	1	Total	C	N	O	0
			43	33	4	6	
12	J8	1	Total	C	N	O	0
			43	33	4	6	
12	K8	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
12	L8	1	Total	C	N	O	0
			43	33	4	6	
12	M8	1	Total	C	N	O	0
			43	33	4	6	
12	M8	1	Total	C	N	O	0
			43	33	4	6	
12	N8	1	Total	C	N	O	0
			43	33	4	6	
12	O8	1	Total	C	N	O	0
			43	33	4	6	
12	O8	1	Total	C	N	O	0
			43	33	4	6	
12	P8	1	Total	C	N	O	0
			43	33	4	6	
12	Q8	1	Total	C	N	O	0
			43	33	4	6	
12	R8	1	Total	C	N	O	0
			43	33	4	6	
12	S8	1	Total	C	N	O	0
			43	33	4	6	
12	F1	1	Total	C	N	O	0
			43	33	4	6	
12	F1	1	Total	C	N	O	0
			43	33	4	6	
12	L9	1	Total	C	N	O	0
			43	33	4	6	
12	L9	1	Total	C	N	O	0
			43	33	4	6	
12	O9	1	Total	C	N	O	0
			43	33	4	6	
12	P9	1	Total	C	N	O	0
			43	33	4	6	
12	P9	1	Total	C	N	O	0
			43	33	4	6	
12	Q9	1	Total	C	N	O	0
			43	33	4	6	
12	Y8	1	Total	C	N	O	0
			43	33	4	6	
12	Z8	1	Total	C	N	O	0
			43	33	4	6	
12	A9	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
12	B9	1	Total	C	N	O	0
			43	33	4	6	
12	B9	1	Total	C	N	O	0
			43	33	4	6	
12	C9	1	Total	C	N	O	0
			43	33	4	6	
12	D9	1	Total	C	N	O	0
			43	33	4	6	
12	D9	1	Total	C	N	O	0
			43	33	4	6	
12	E9	1	Total	C	N	O	0
			43	33	4	6	
12	F9	1	Total	C	N	O	0
			43	33	4	6	
12	F9	1	Total	C	N	O	0
			43	33	4	6	
12	F9	1	Total	C	N	O	0
			43	33	4	6	
12	G9	1	Total	C	N	O	0
			43	33	4	6	
12	H9	1	Total	C	N	O	0
			43	33	4	6	
12	H9	1	Total	C	N	O	0
			43	33	4	6	
12	I9	1	Total	C	N	O	0
			43	33	4	6	
12	J9	1	Total	C	N	O	0
			43	33	4	6	
12	J9	1	Total	C	N	O	0
			43	33	4	6	
12	K9	1	Total	C	N	O	0
			43	33	4	6	
12	R9	1	Total	C	N	O	0
			43	33	4	6	
12	R9	1	Total	C	N	O	0
			43	33	4	6	
12	S9	1	Total	C	N	O	0
			43	33	4	6	
12	T9	1	Total	C	N	O	0
			43	33	4	6	
12	T9	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
12	U9	1	Total	C	N	O	0
			43	33	4	6	
12	V9	1	Total	C	N	O	0
			43	33	4	6	
12	V9	1	Total	C	N	O	0
			43	33	4	6	
12	W9	1	Total	C	N	O	0
			43	33	4	6	
12	X9	1	Total	C	N	O	0
			43	33	4	6	
12	X9	1	Total	C	N	O	0
			43	33	4	6	
12	Y9	1	Total	C	N	O	0
			43	33	4	6	
12	Z9	1	Total	C	N	O	0
			43	33	4	6	
12	Z9	1	Total	C	N	O	0
			43	33	4	6	
12	G1	1	Total	C	N	O	0
			43	33	4	6	
12	a9	1	Total	C	N	O	0
			43	33	4	6	
12	aA	1	Total	C	N	O	0
			43	33	4	6	
12	aA	1	Total	C	N	O	0
			43	33	4	6	
12	H1	1	Total	C	N	O	0
			43	33	4	6	
12	H1	1	Total	C	N	O	0
			43	33	4	6	
12	I1	1	Total	C	N	O	0
			43	33	4	6	
12	J1	1	Total	C	N	O	0
			43	33	4	6	
12	K1	1	Total	C	N	O	0
			43	33	4	6	
12	L1	1	Total	C	N	O	0
			43	33	4	6	
12	T1	1	Total	C	N	O	0
			43	33	4	6	
12	T1	1	Total	C	N	O	0
			43	33	4	6	

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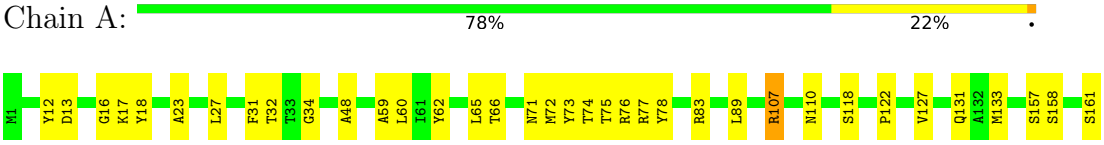
Mol	Chain	Residues	Atoms				AltConf
12	U1	1	Total	C	N	O	0
			43	33	4	6	
12	V1	1	Total	C	N	O	0
			43	33	4	6	
12	V1	1	Total	C	N	O	0
			43	33	4	6	
12	W1	1	Total	C	N	O	0
			43	33	4	6	
12	X1	1	Total	C	N	O	0
			43	33	4	6	
12	X1	1	Total	C	N	O	0
			43	33	4	6	
12	Y1	1	Total	C	N	O	0
			43	33	4	6	
12	Z1	1	Total	C	N	O	0
			43	33	4	6	
12	Z1	1	Total	C	N	O	0
			43	33	4	6	
12	A2	1	Total	C	N	O	0
			43	33	4	6	
12	B2	1	Total	C	N	O	0
			43	33	4	6	
12	C2	1	Total	C	N	O	0
			43	33	4	6	
12	D2	1	Total	C	N	O	0
			43	33	4	6	
12	D2	1	Total	C	N	O	0
			43	33	4	6	
12	E2	1	Total	C	N	O	0
			43	33	4	6	
12	F2	1	Total	C	N	O	0
			43	33	4	6	
12	F2	1	Total	C	N	O	0
			43	33	4	6	

3 Residue-property plots (i)

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

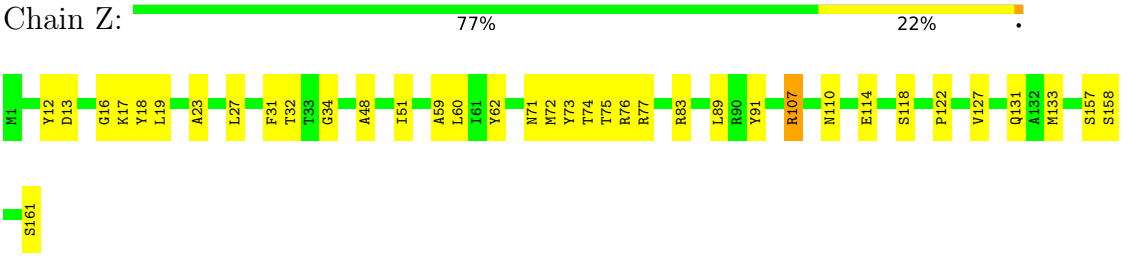
• Molecule 1: Allophycocyanin beta subunit

Chain A:



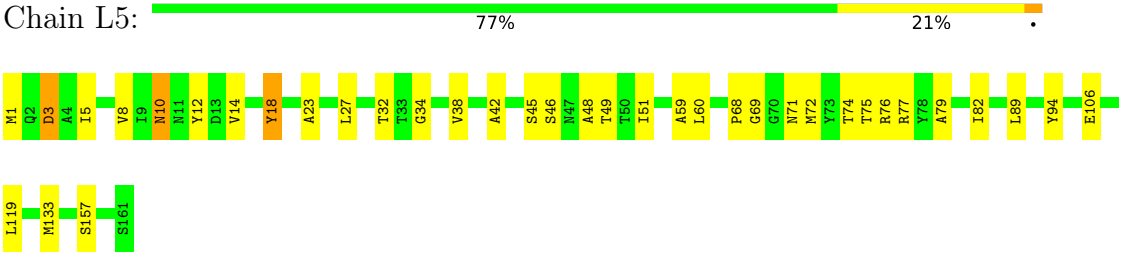
• Molecule 1: Allophycocyanin beta subunit

Chain Z:



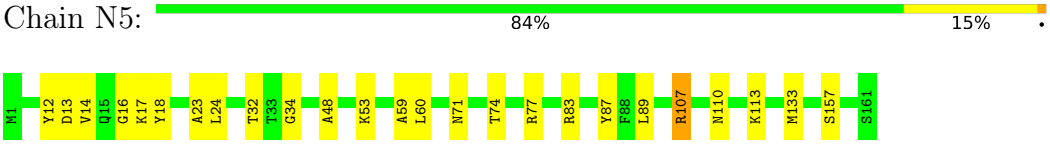
• Molecule 1: Allophycocyanin beta subunit

Chain L5:



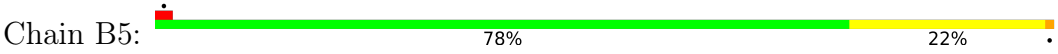
• Molecule 1: Allophycocyanin beta subunit

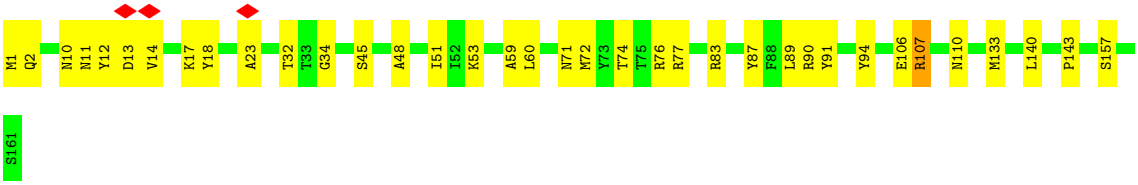
Chain N5:



• Molecule 1: Allophycocyanin beta subunit

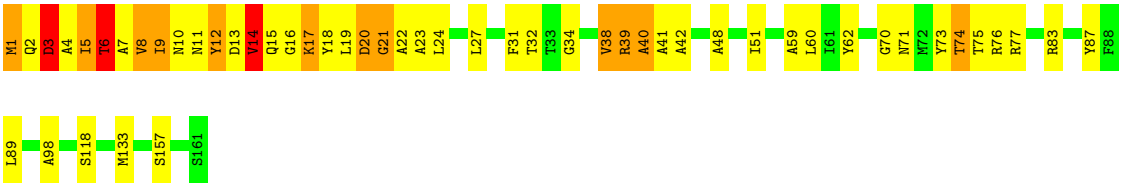
Chain B5:





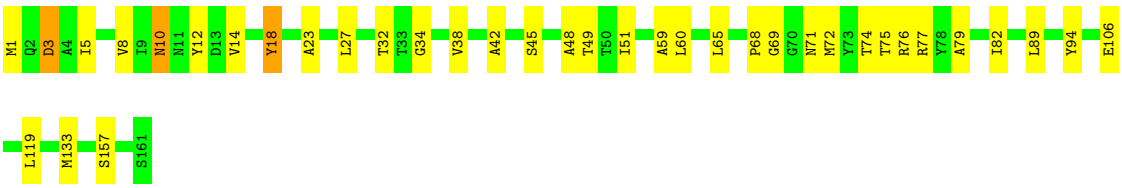
• Molecule 1: Allophycocyanin beta subunit

Chain D5:



• Molecule 1: Allophycocyanin beta subunit

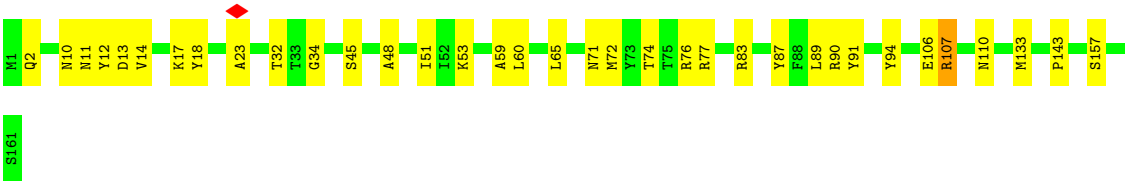
Chain F5:



• Molecule 1: Allophycocyanin beta subunit

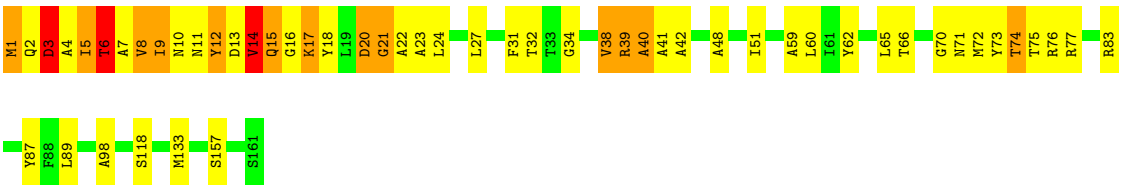
Chain H5:





• Molecule 1: Allophycocyanin beta subunit

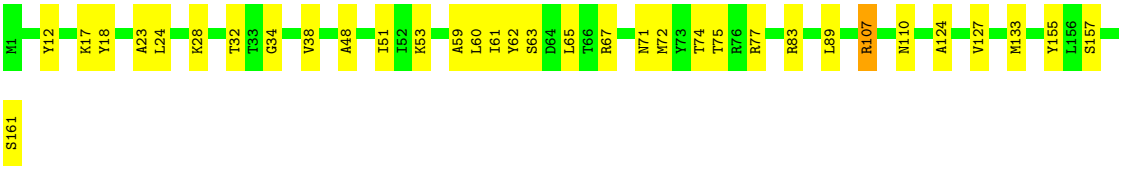
Chain J5:



• Molecule 1: Allophycocyanin beta subunit

Chain d5:

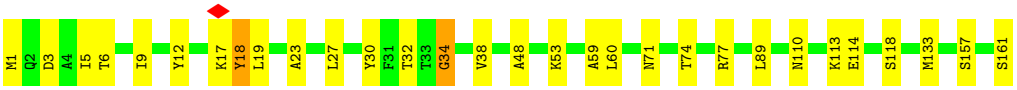




• Molecule 1: Allophycocyanin beta subunit

Chain f5:

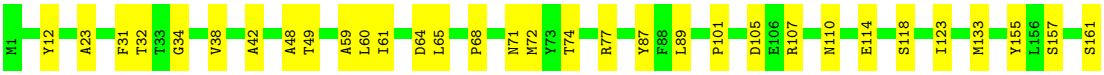




• Molecule 1: Allophycocyanin beta subunit

Chain P5:

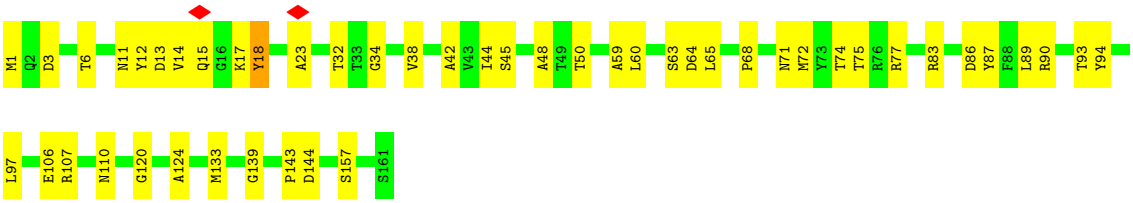




• Molecule 1: Allophycocyanin beta subunit

Chain R5:

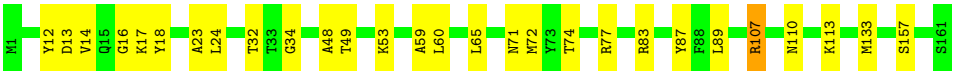




• Molecule 1: Allophycocyanin beta subunit

Chain T5:

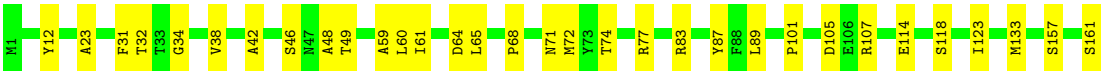




• Molecule 1: Allophycocyanin beta subunit

Chain V5:

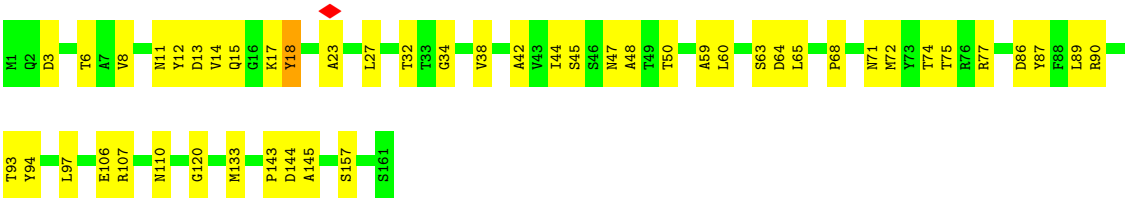




• Molecule 1: Allophycocyanin beta subunit

Chain X5:





• Molecule 1: Allophycocyanin beta subunit

Chain Z5:

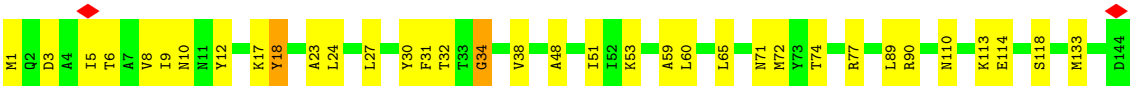




• Molecule 1: Allophycocyanin beta subunit

Chain b5:





• Molecule 1: Allophycocyanin beta subunit

Chain P7:

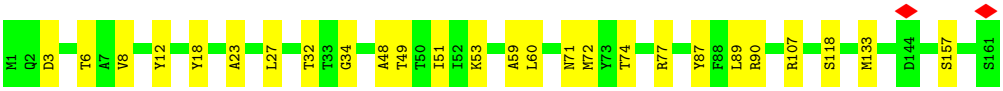




• Molecule 1: Allophycocyanin beta subunit

Chain R7:

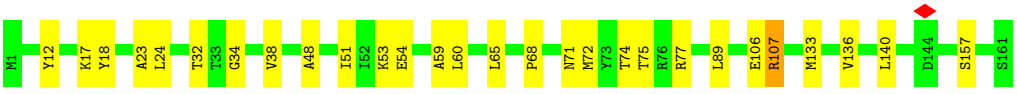




• Molecule 1: Allophycocyanin beta subunit

Chain B7:

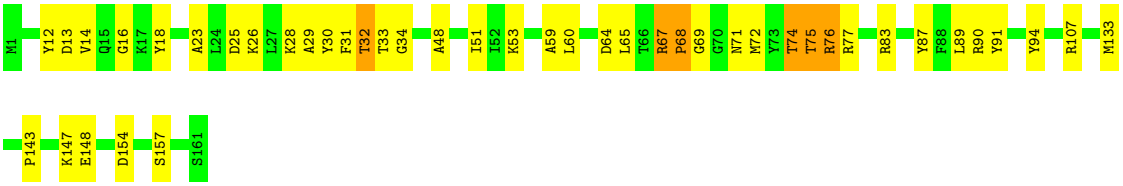




• Molecule 1: Allophycocyanin beta subunit

Chain D7:





• Molecule 1: Allophycocyanin beta subunit

Chain F7:

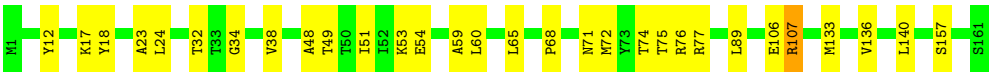




• Molecule 1: Allophycocyanin beta subunit

Chain H7:

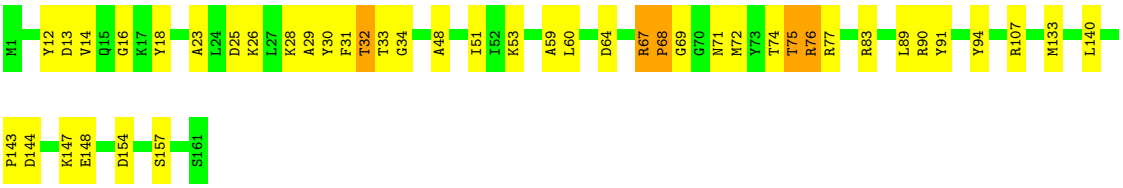




• Molecule 1: Allophycocyanin beta subunit

Chain J7:





• Molecule 1: Allophycocyanin beta subunit

Chain L7:

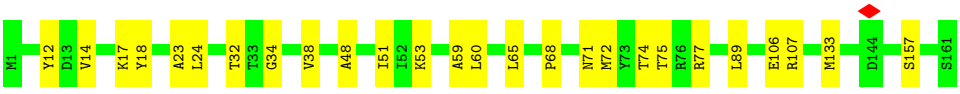




• Molecule 1: Allophycocyanin beta subunit

Chain N7:

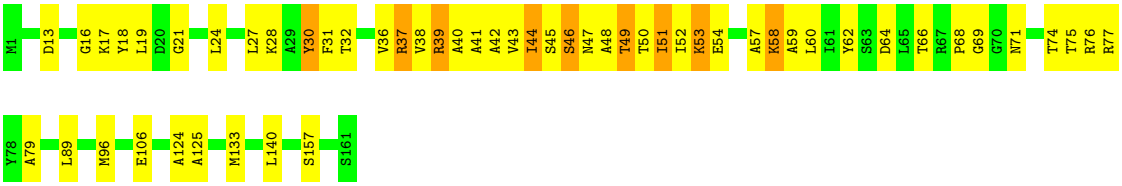




• Molecule 1: Allophycocyanin beta subunit

Chain h7:

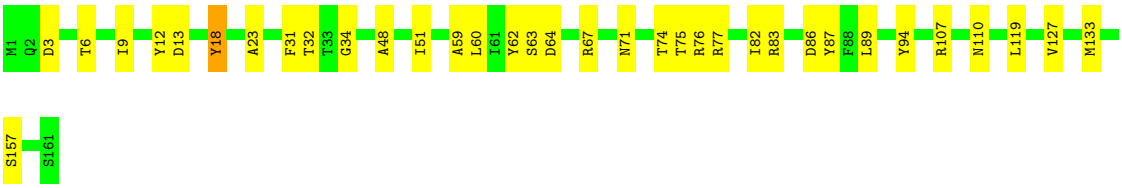




• Molecule 1: Allophycocyanin beta subunit

Chain j7:

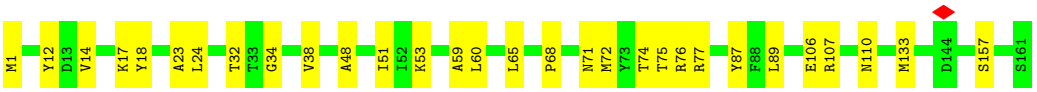




• Molecule 1: Allophycocyanin beta subunit

Chain T7:

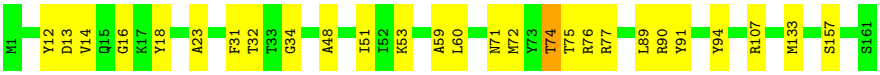




• Molecule 1: Allophycocyanin beta subunit

Chain V7:

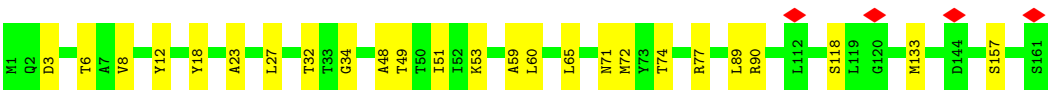




• Molecule 1: Allophycocyanin beta subunit

Chain X7:

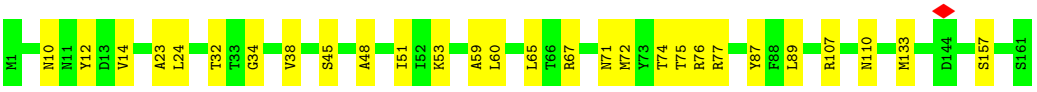




• Molecule 1: Allophycocyanin beta subunit

Chain Z7:

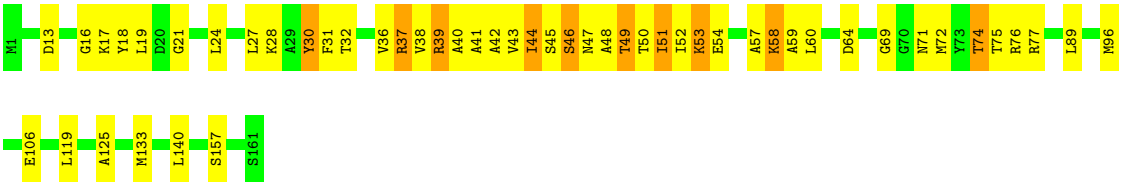




• Molecule 1: Allophycocyanin beta subunit

Chain b7:

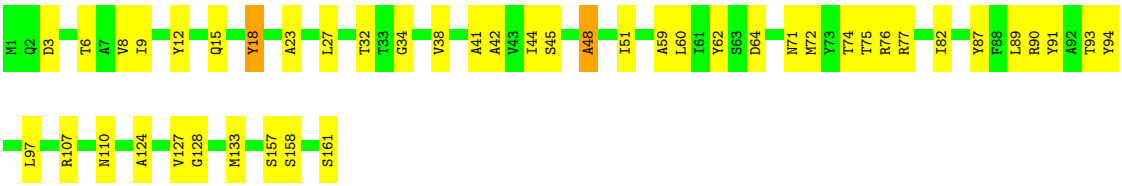




• Molecule 1: Allophycocyanin beta subunit

Chain d7:





• Molecule 1: Allophycocyanin beta subunit

Chain f7:





• Molecule 1: Allophycocyanin beta subunit

Chain l7:

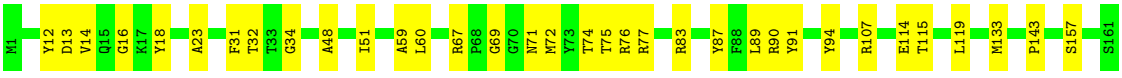




• Molecule 1: Allophycocyanin beta subunit

Chain n7:

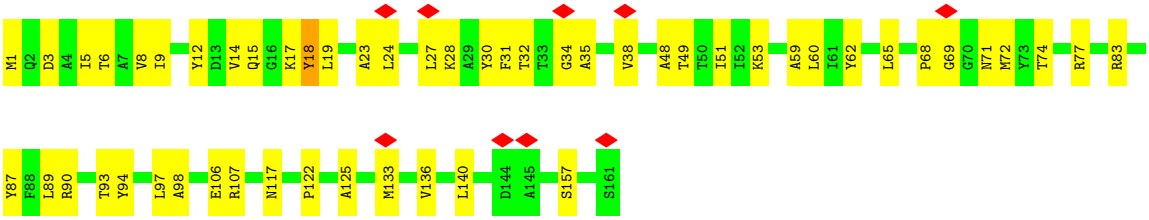




• Molecule 1: Allophycocyanin beta subunit

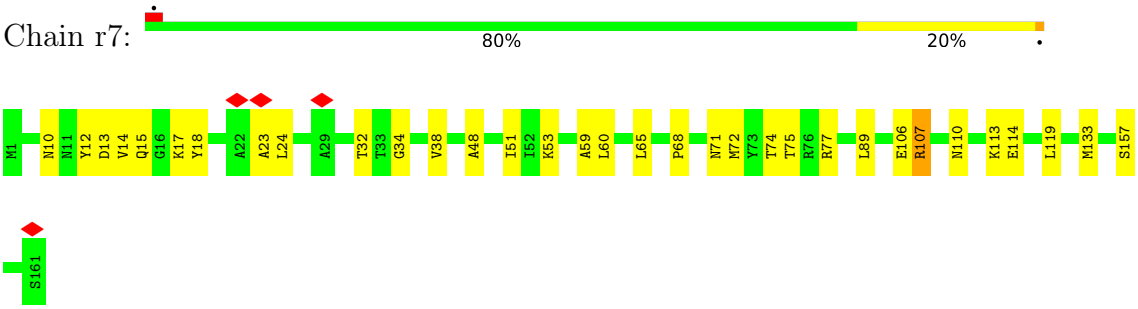
Chain p7:





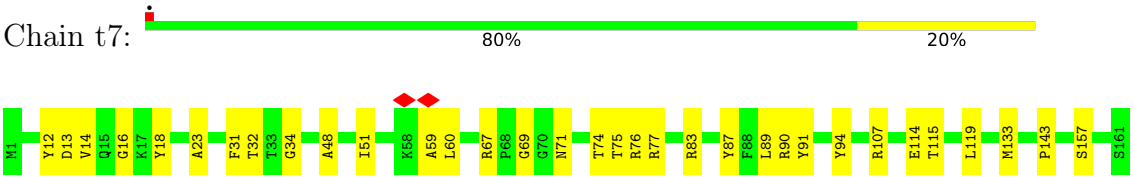
• Molecule 1: Allophycocyanin beta subunit

Chain r7:



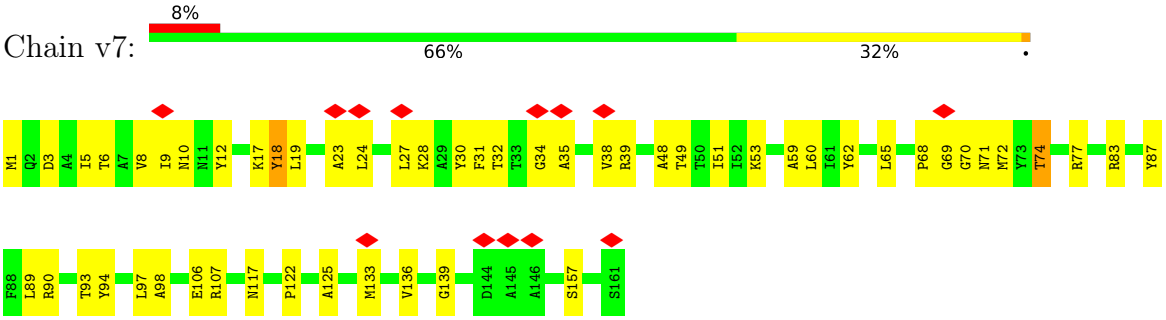
• Molecule 1: Allophycocyanin beta subunit

Chain t7:



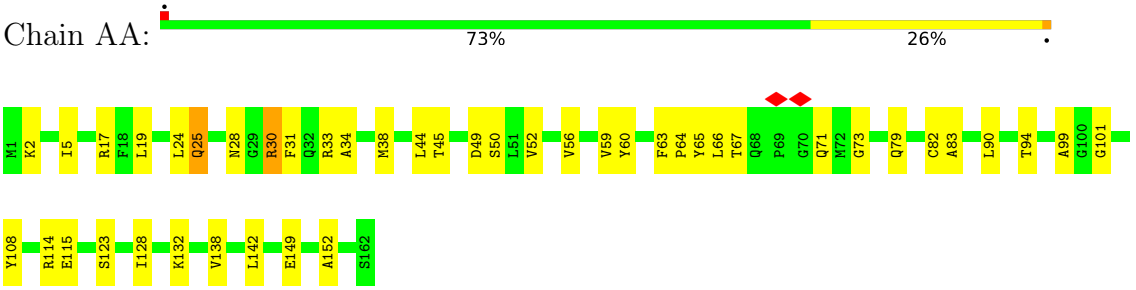
• Molecule 1: Allophycocyanin beta subunit

Chain v7:



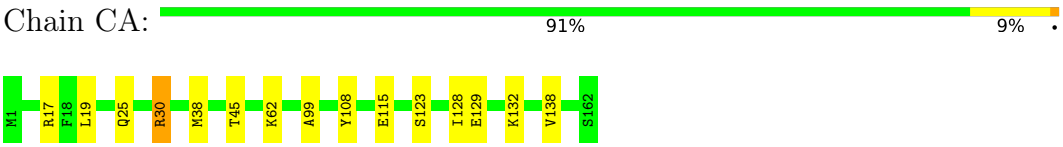
• Molecule 2: Phycocyanin alpha chain

Chain AA:



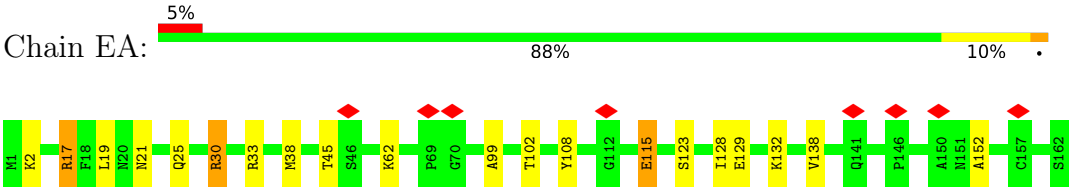
• Molecule 2: Phycocyanin alpha chain

Chain CA:



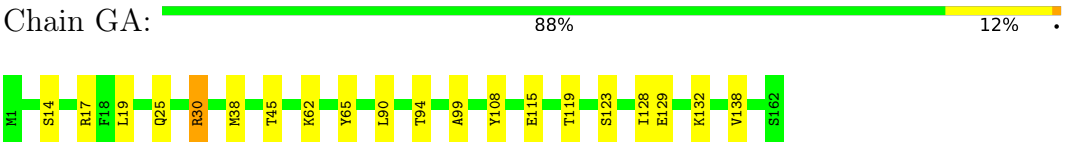
• Molecule 2: Phycocyanin alpha chain

Chain EA:



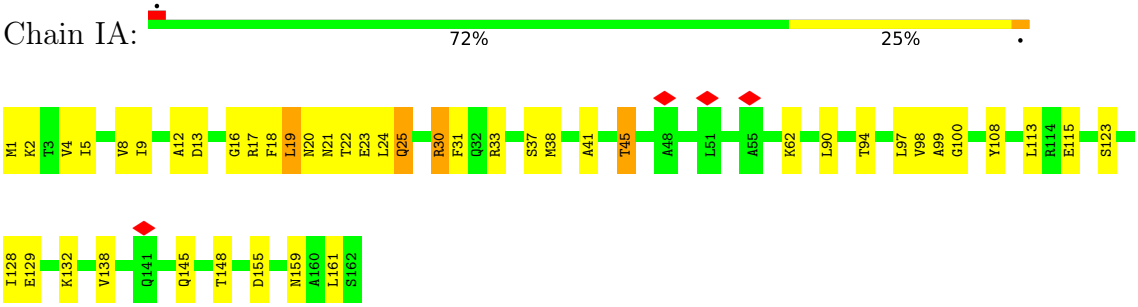
• Molecule 2: Phycocyanin alpha chain

Chain GA:



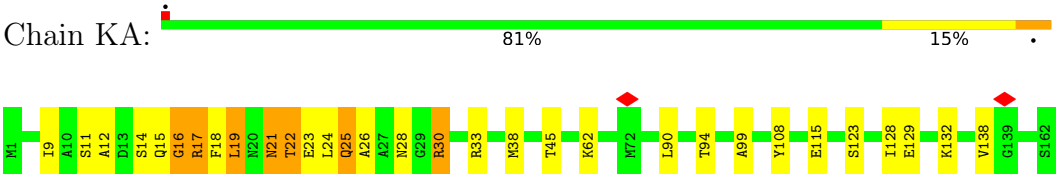
• Molecule 2: Phycocyanin alpha chain

Chain IA:



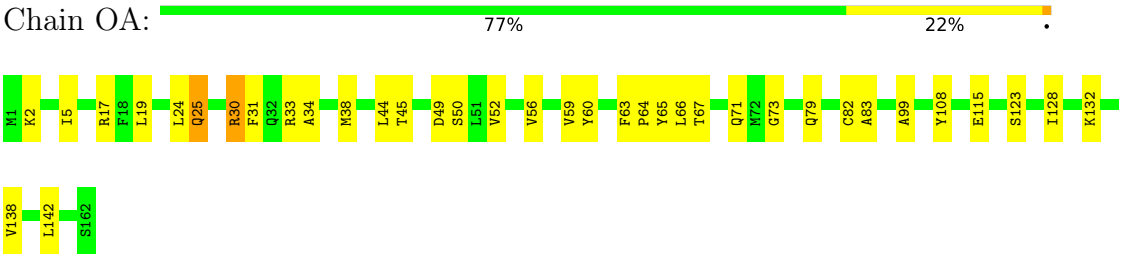
• Molecule 2: Phycocyanin alpha chain

Chain KA:



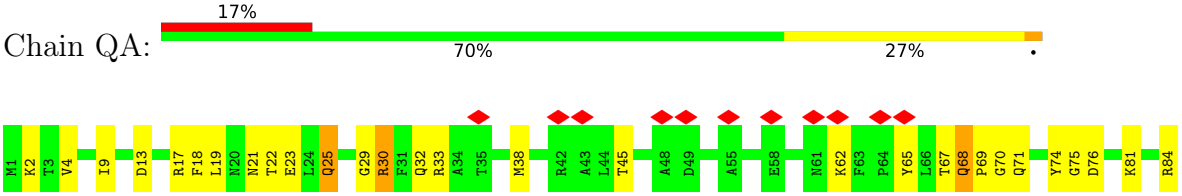
• Molecule 2: Phycocyanin alpha chain

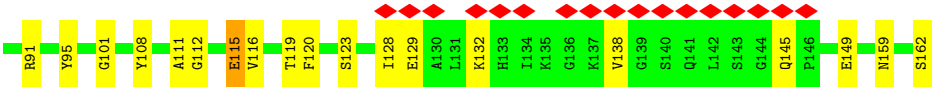
Chain OA:



• Molecule 2: Phycocyanin alpha chain

Chain QA:

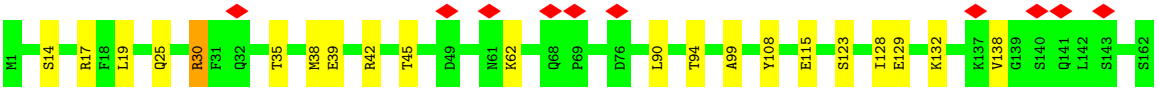




• Molecule 2: Phycocyanin alpha chain

Chain SA:

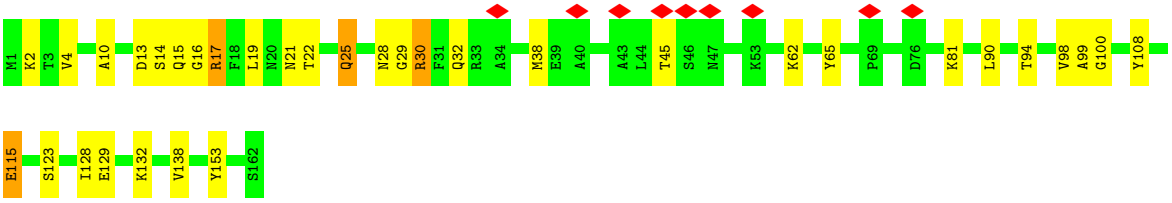




• Molecule 2: Phycocyanin alpha chain

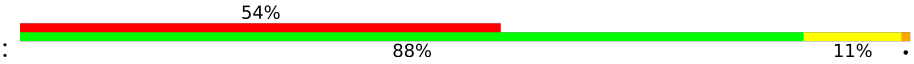
Chain UA:

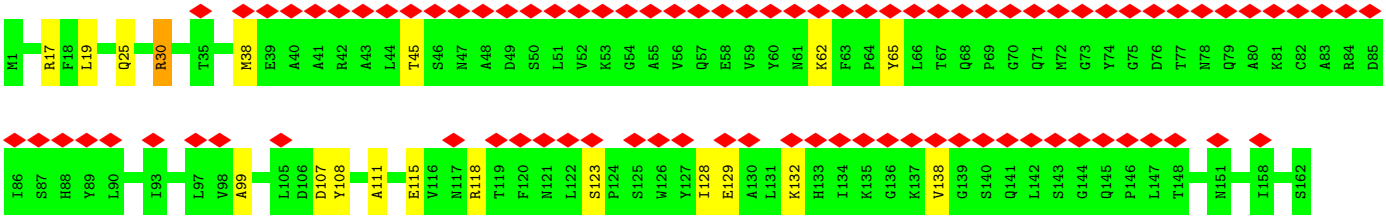




• Molecule 2: Phycocyanin alpha chain

Chain WA:

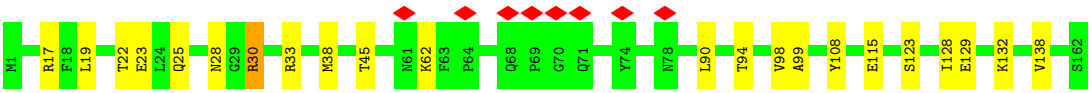




• Molecule 2: Phycocyanin alpha chain

Chain YA:

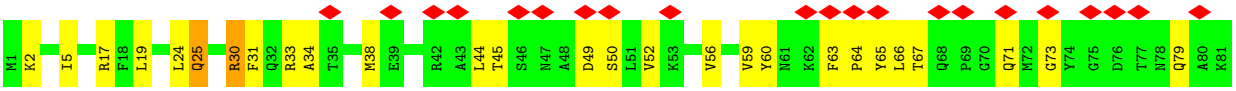




• Molecule 2: Phycocyanin alpha chain

Chain O1:

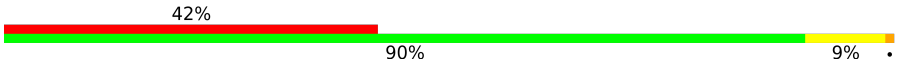


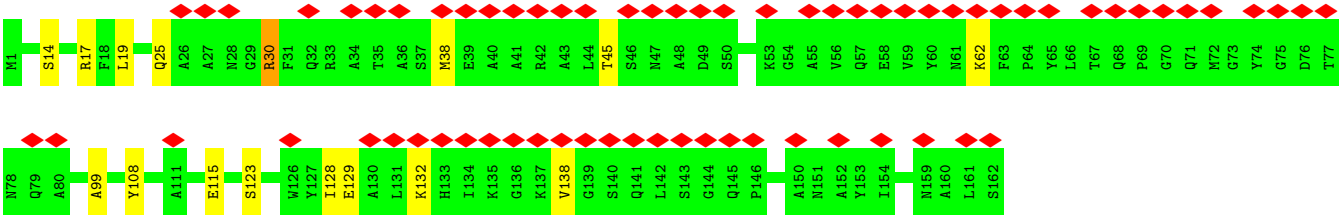




• Molecule 2: Phycocyanin alpha chain

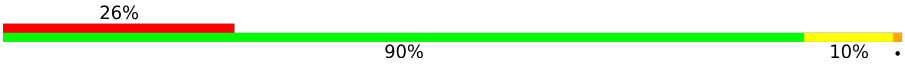
Chain Q1:





• Molecule 2: Phycocyanin alpha chain

Chain S1:

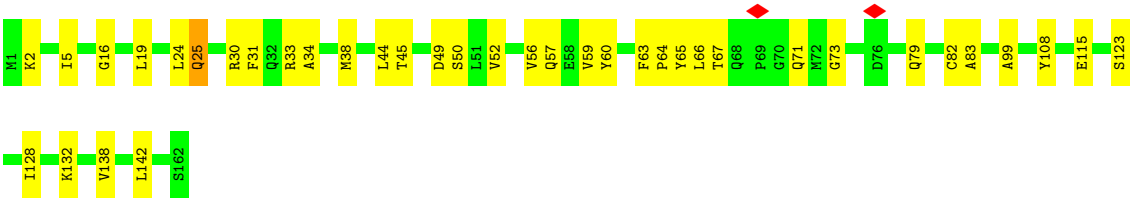




• Molecule 2: Phycocyanin alpha chain

Chain A1:

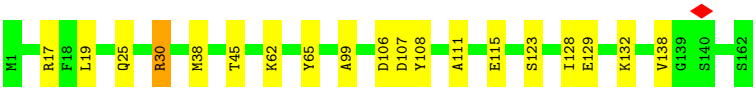




• Molecule 2: Phycocyanin alpha chain

Chain G3:

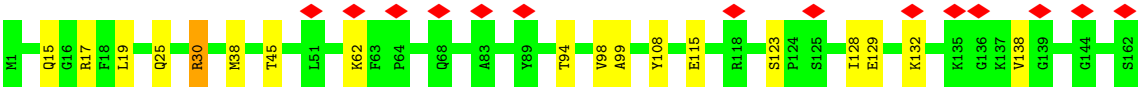




• Molecule 2: Phycocyanin alpha chain

Chain I3:

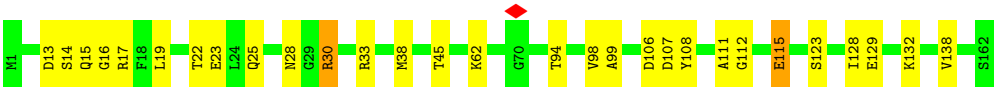




• Molecule 2: Phycocyanin alpha chain

Chain K3:

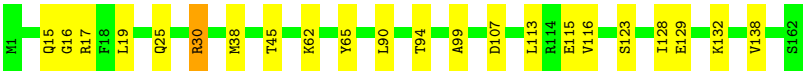




• Molecule 2: Phycocyanin alpha chain

Chain G2:

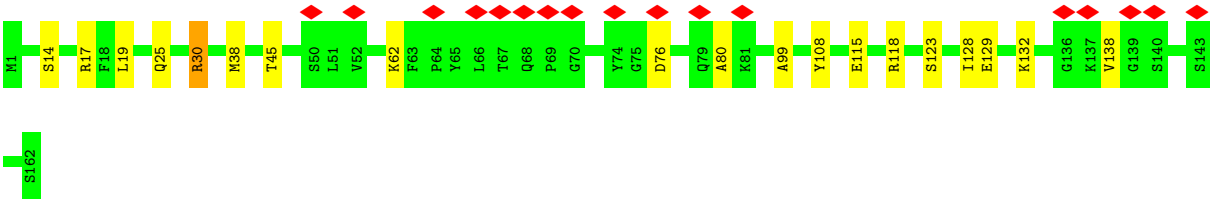




• Molecule 2: Phycocyanin alpha chain

Chain I2:

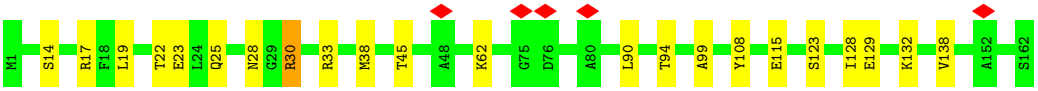




• Molecule 2: Phycocyanin alpha chain

Chain K2:

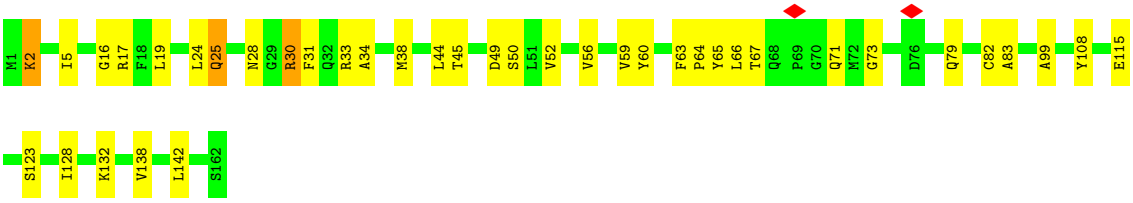




• Molecule 2: Phycocyanin alpha chain

Chain A3:

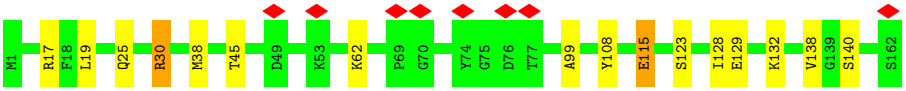




• Molecule 2: Phycocyanin alpha chain

Chain C3:

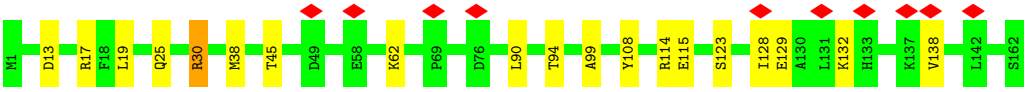




• Molecule 2: Phycocyanin alpha chain

Chain E3:





• Molecule 2: Phycocyanin alpha chain

Chain A4:

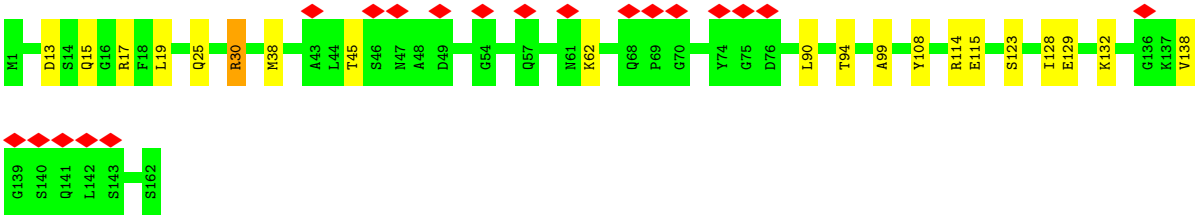




• Molecule 2: Phycocyanin alpha chain

Chain C4:

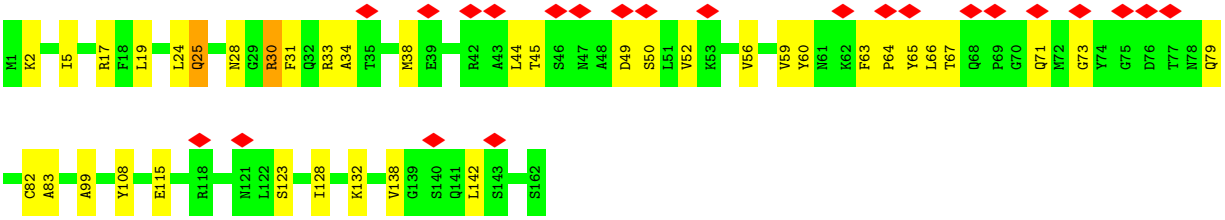




• Molecule 2: Phycocyanin alpha chain

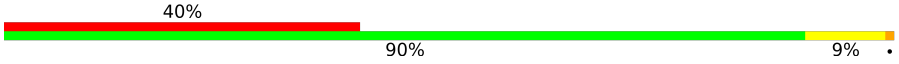
Chain O3:

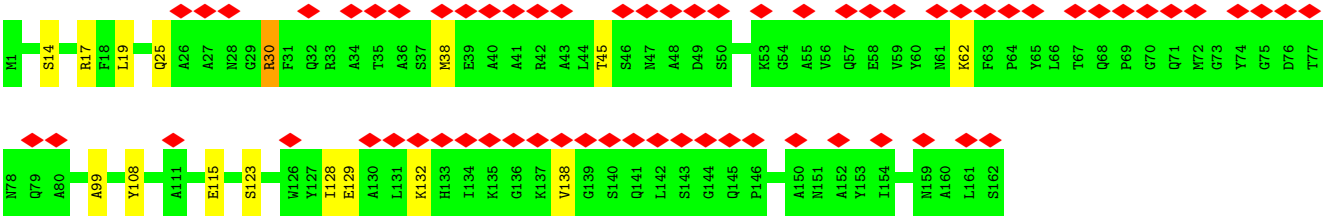




• Molecule 2: Phycocyanin alpha chain

Chain Q3:

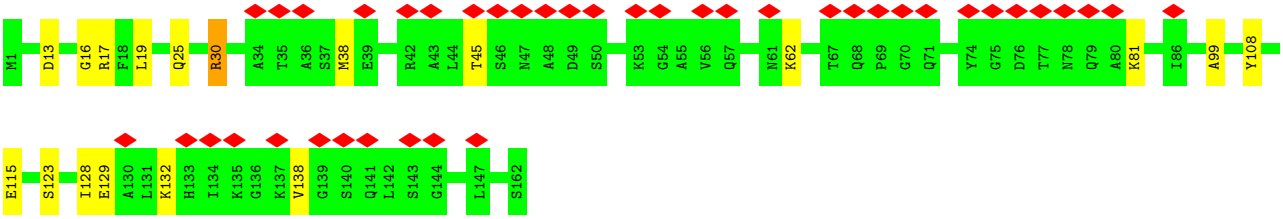




• Molecule 2: Phycocyanin alpha chain

Chain S3:

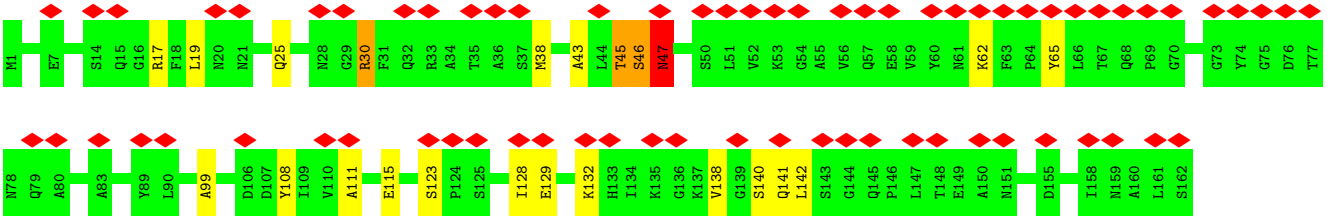




• Molecule 2: Phycocyanin alpha chain

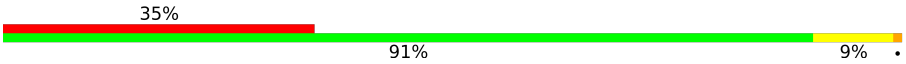
Chain U3:

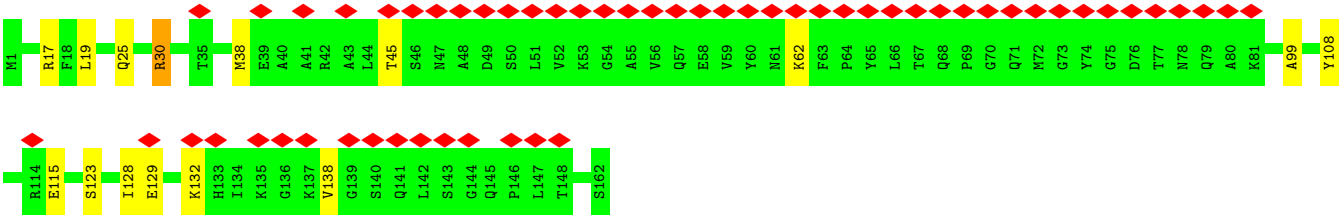




• Molecule 2: Phycocyanin alpha chain

Chain W3:

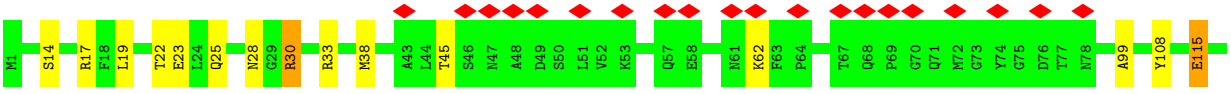


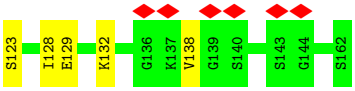


• Molecule 2: Phycocyanin alpha chain

Chain Y3:



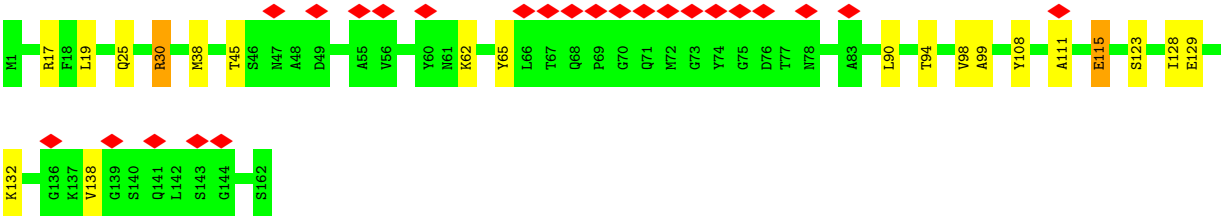




• Molecule 2: Phycocyanin alpha chain

Chain T4:

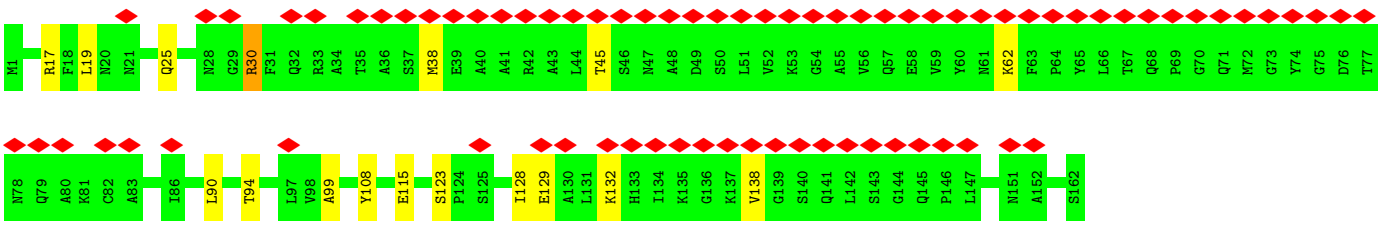




• Molecule 2: Phycocyanin alpha chain

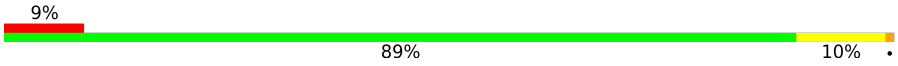
Chain V4:

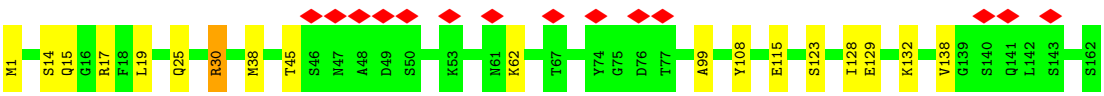




• Molecule 2: Phycocyanin alpha chain

Chain E4:

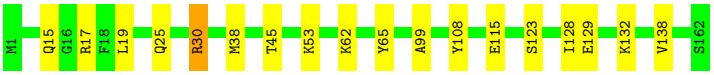




• Molecule 2: Phycocyanin alpha chain

Chain G4:





• Molecule 2: Phycocyanin alpha chain

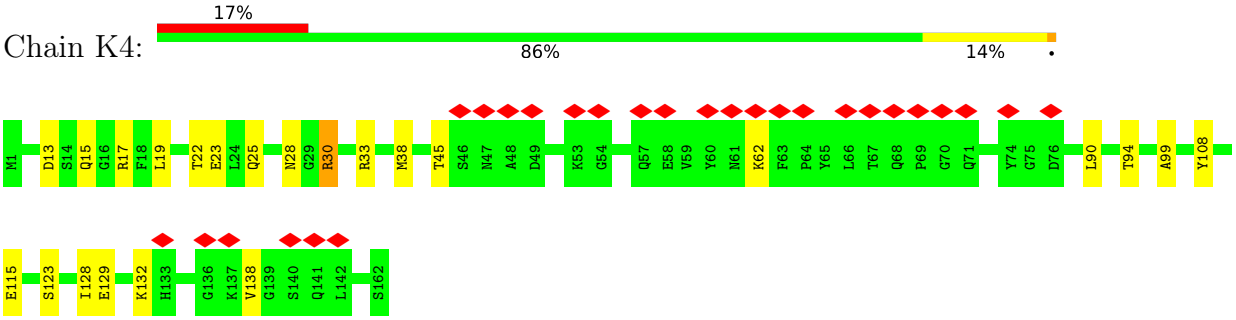
Chain I4:





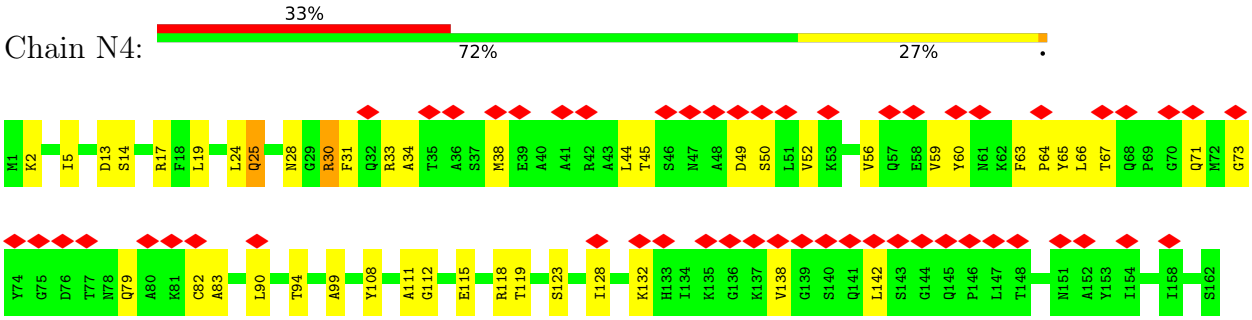
• Molecule 2: Phycocyanin alpha chain

Chain K4:



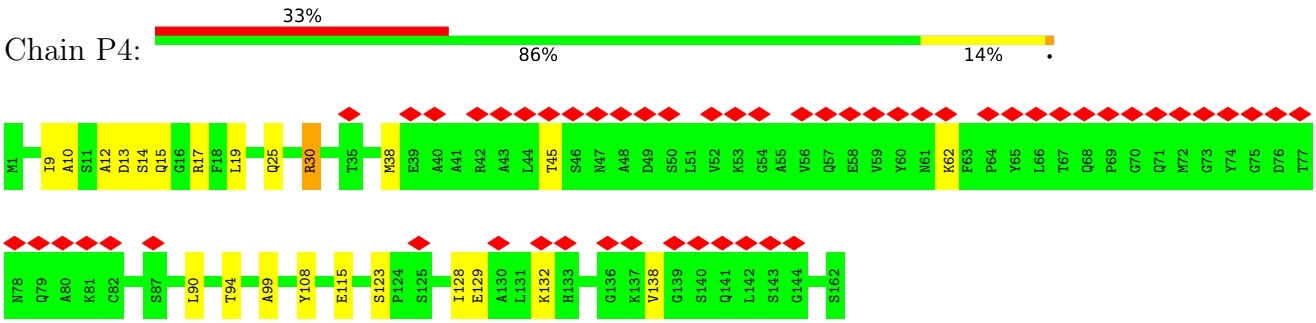
• Molecule 2: Phycocyanin alpha chain

Chain N4:



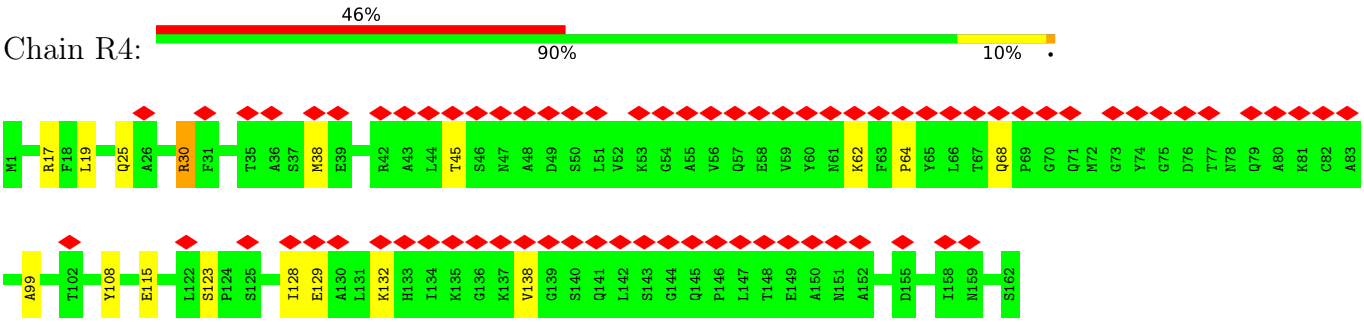
• Molecule 2: Phycocyanin alpha chain

Chain P4:



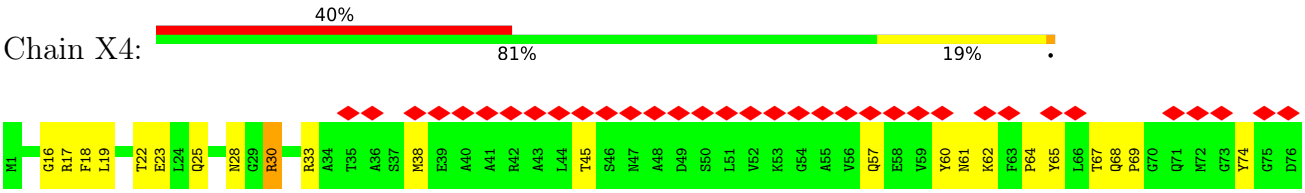
• Molecule 2: Phycocyanin alpha chain

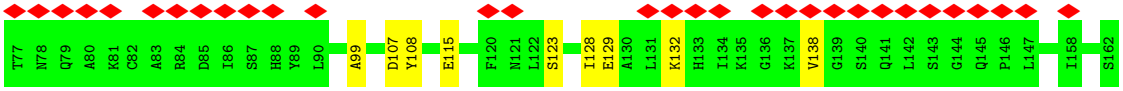
Chain R4:



• Molecule 2: Phycocyanin alpha chain

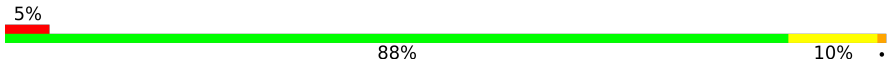
Chain X4:

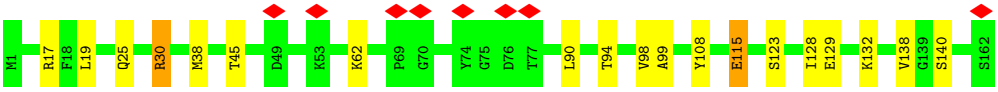




• Molecule 2: Phycocyanin alpha chain

Chain C1:

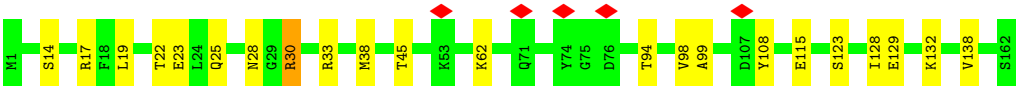




• Molecule 2: Phycocyanin alpha chain

Chain K6:

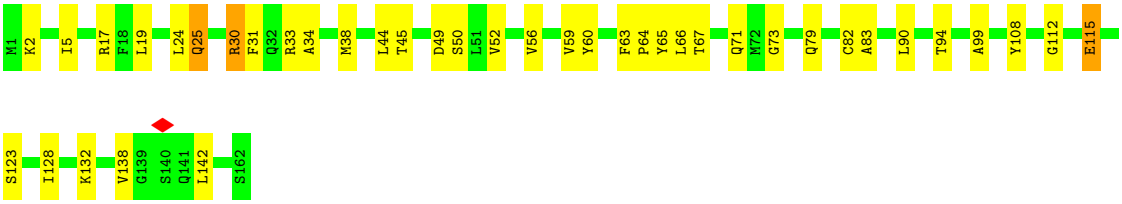




• Molecule 2: Phycocyanin alpha chain

Chain A6:





• Molecule 2: Phycocyanin alpha chain

Chain C6:

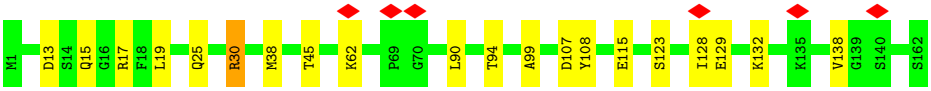




• Molecule 2: Phycocyanin alpha chain

Chain E6:

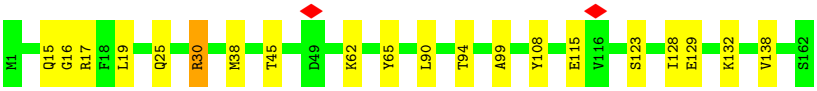




• Molecule 2: Phycocyanin alpha chain

Chain G6:

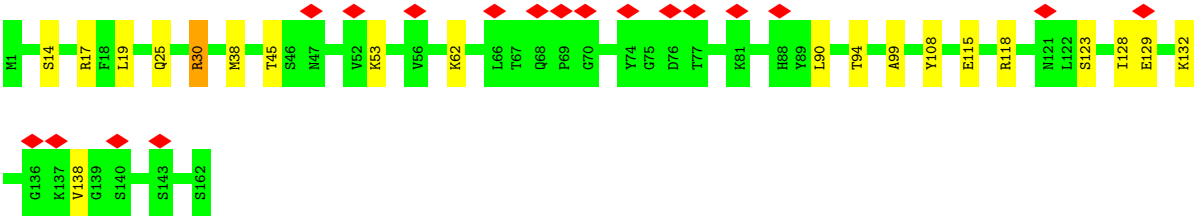




• Molecule 2: Phycocyanin alpha chain

Chain I6:

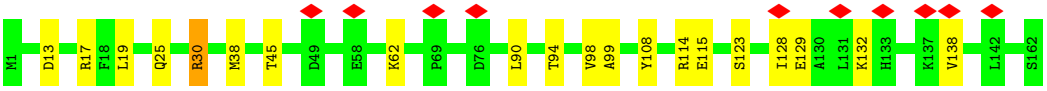




• Molecule 2: Phycocyanin alpha chain

Chain E1:

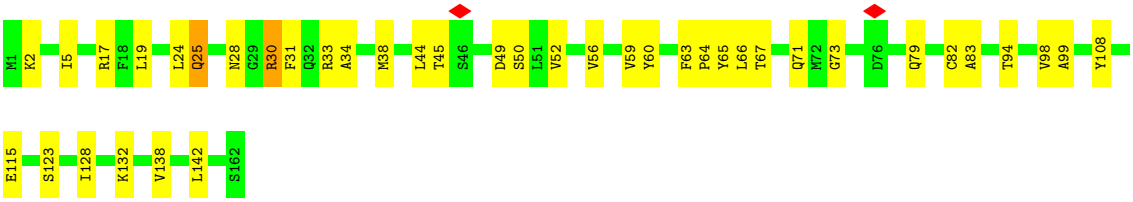




• Molecule 2: Phycocyanin alpha chain

Chain A8:

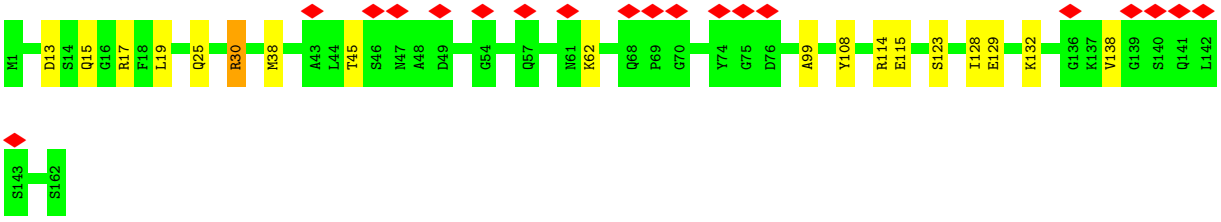




• Molecule 2: Phycocyanin alpha chain

Chain C8:

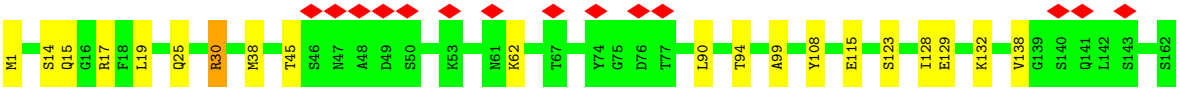




• Molecule 2: Phycocyanin alpha chain

Chain E8:

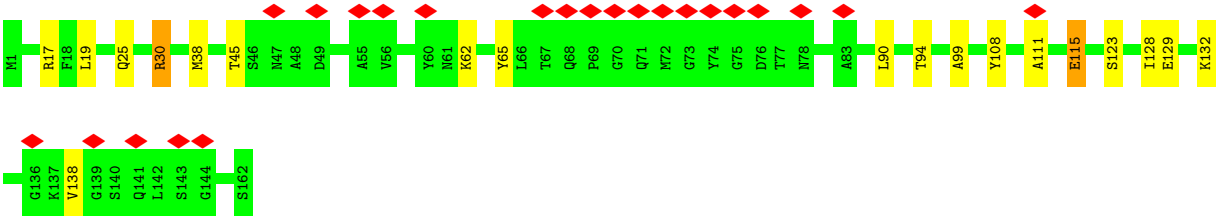




• Molecule 2: Phycocyanin alpha chain

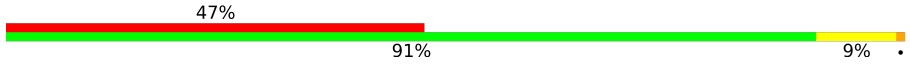
Chain T8:

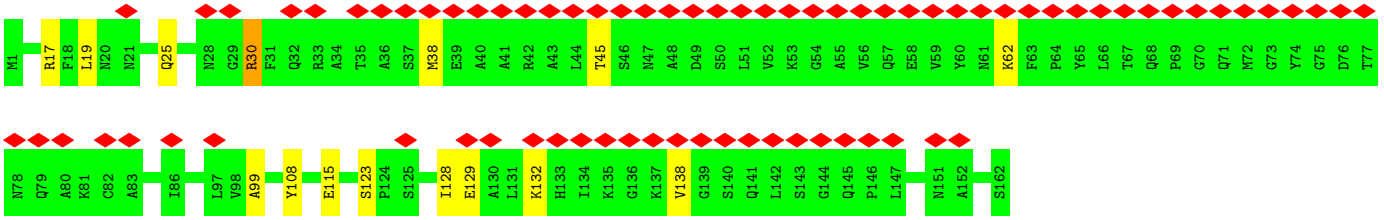




• Molecule 2: Phycocyanin alpha chain

Chain V8:

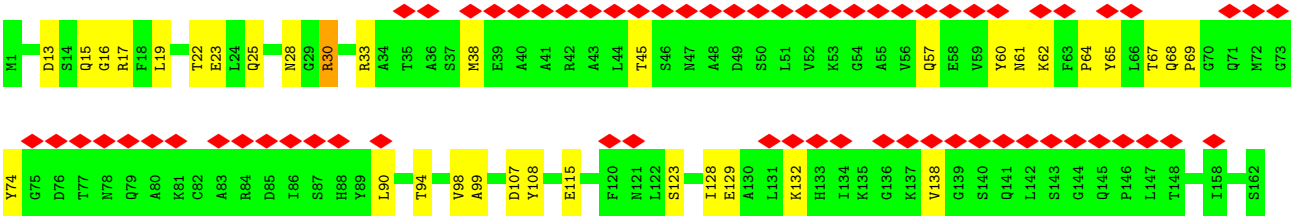




• Molecule 2: Phycocyanin alpha chain

Chain X8:

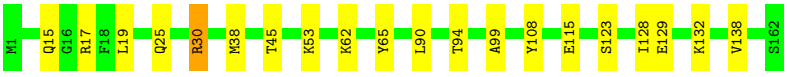




• Molecule 2: Phycocyanin alpha chain

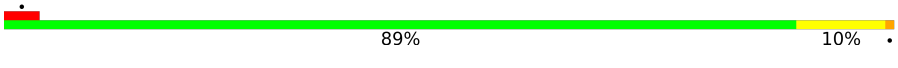
Chain G8:





• Molecule 2: Phycocyanin alpha chain

Chain I8:

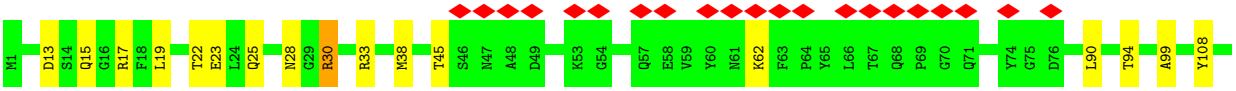


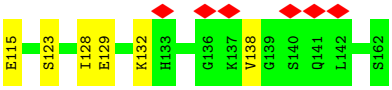


• Molecule 2: Phycocyanin alpha chain

Chain K8:



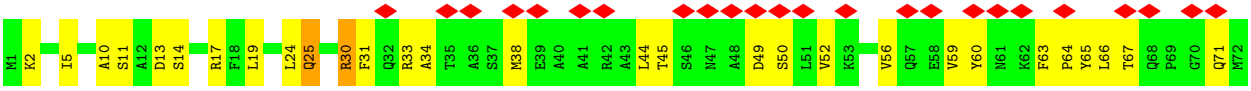


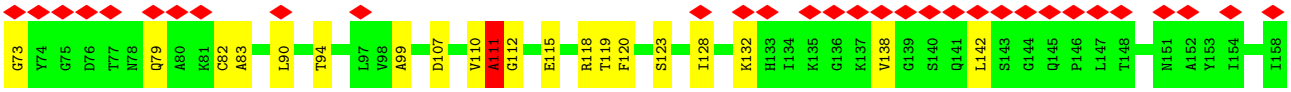


• Molecule 2: Phycocyanin alpha chain

Chain N8:





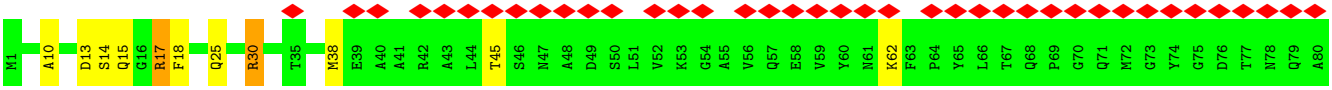


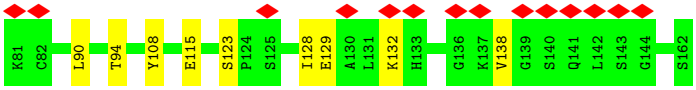


• Molecule 2: Phycocyanin alpha chain

Chain P8:



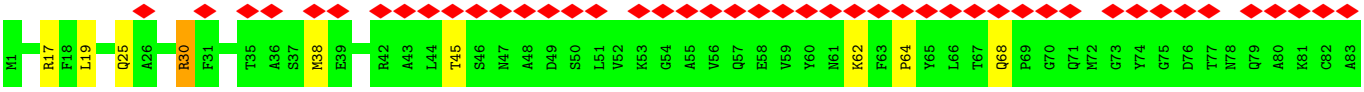


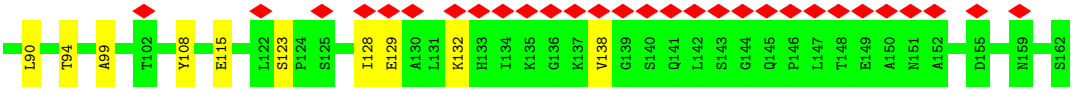


• Molecule 2: Phycocyanin alpha chain

Chain R8:



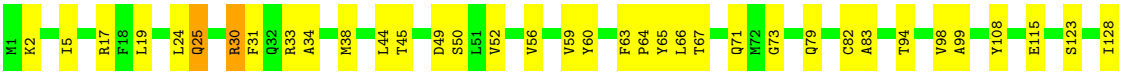




• Molecule 2: Phycocyanin alpha chain

Chain O9:



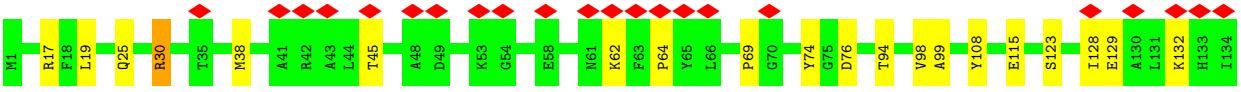


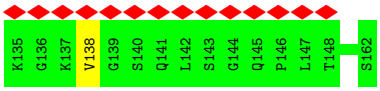


• Molecule 2: Phycocyanin alpha chain

Chain Q9:



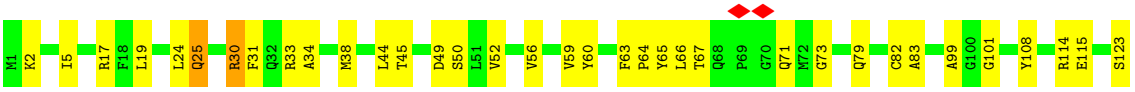


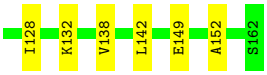


• Molecule 2: Phycocyanin alpha chain

Chain A9:



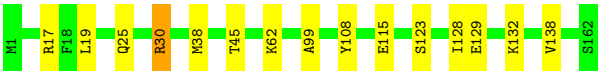




• Molecule 2: Phycocyanin alpha chain

Chain C9:

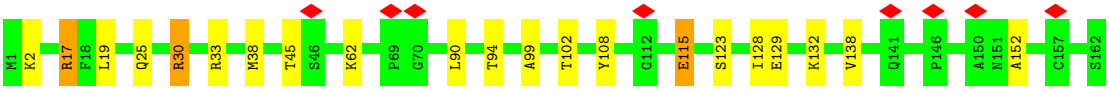




• Molecule 2: Phycocyanin alpha chain

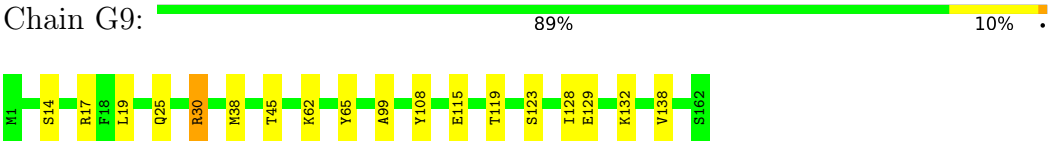
Chain E9:





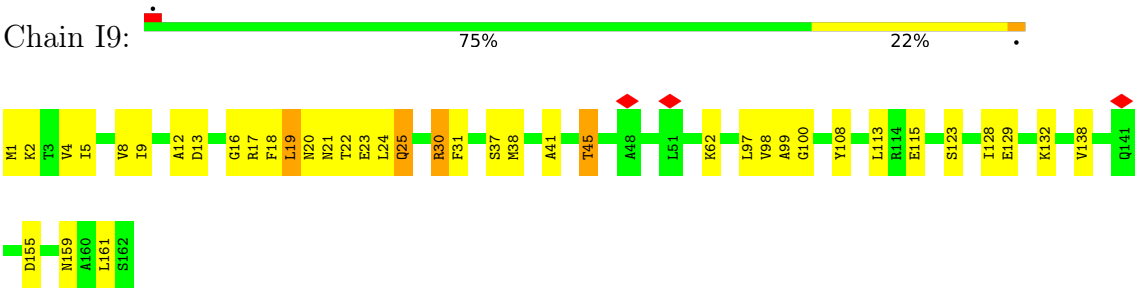
• Molecule 2: Phycocyanin alpha chain

Chain G9:



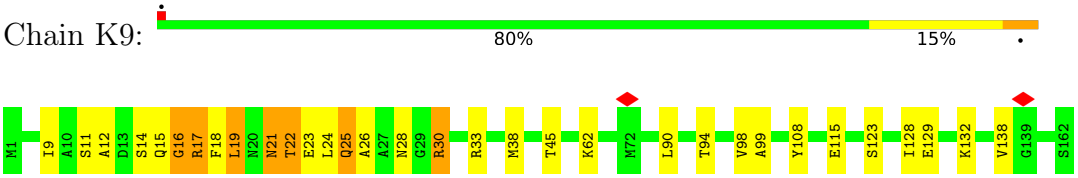
• Molecule 2: Phycocyanin alpha chain

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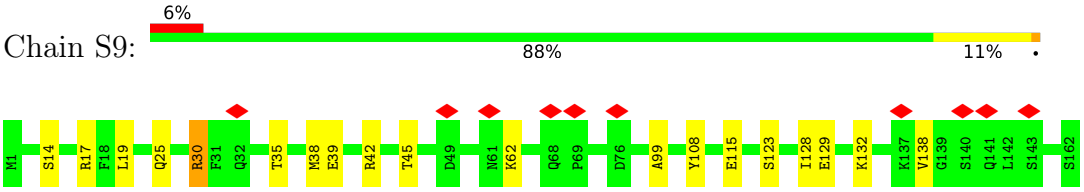
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Chain K9:



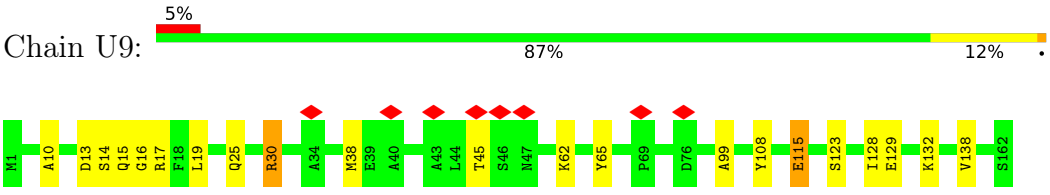
• Molecule 2: Phycocyanin alpha chain

Chain S9:



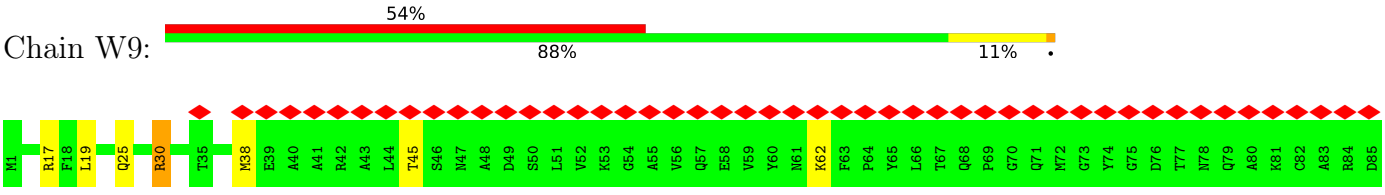
• Molecule 2: Phycocyanin alpha chain

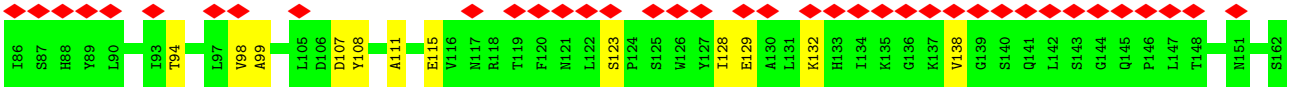
Chain U9:



• Molecule 2: Phycocyanin alpha chain

Chain W9:

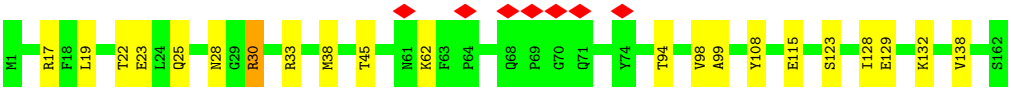




• Molecule 2: Phycocyanin alpha chain

Chain Y9:

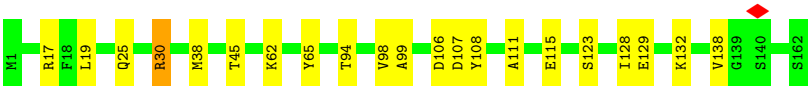




• Molecule 2: Phycocyanin alpha chain

Chain G1:

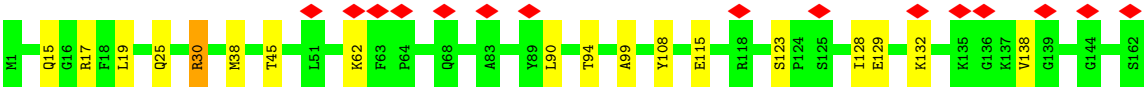




• Molecule 2: Phycocyanin alpha chain

Chain I1:

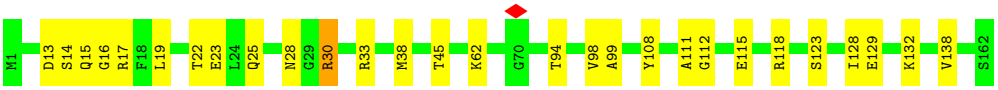




• Molecule 2: Phycocyanin alpha chain

Chain K1:

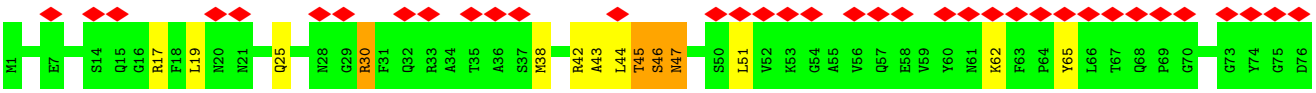


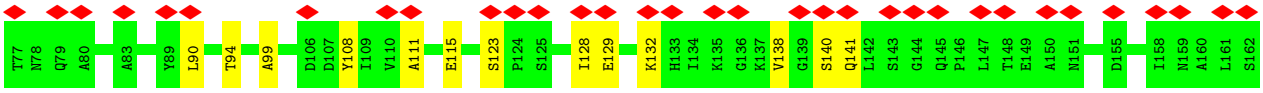


• Molecule 2: Phycocyanin alpha chain

Chain U1:

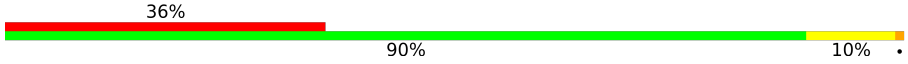


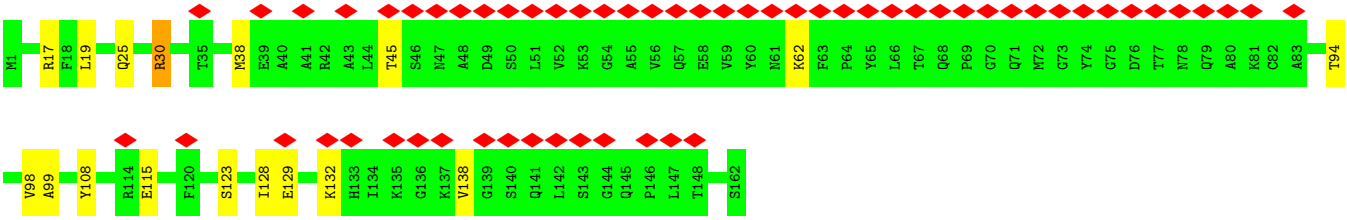




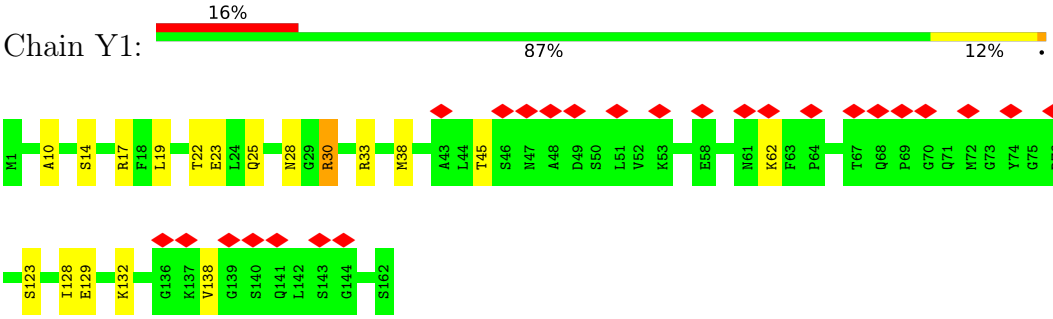
• Molecule 2: Phycocyanin alpha chain

Chain W1:

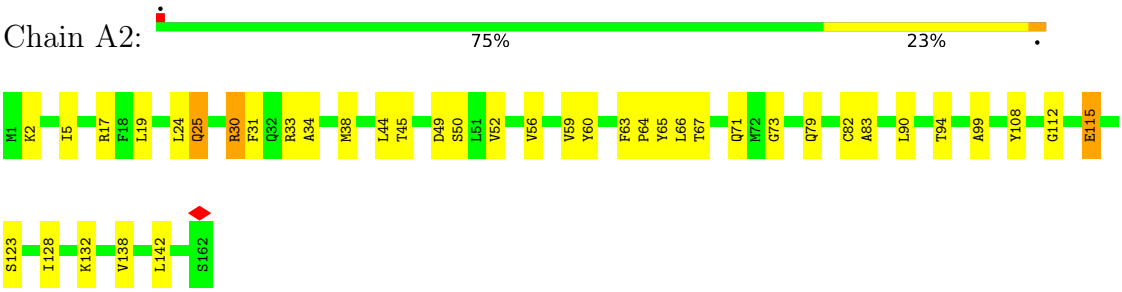




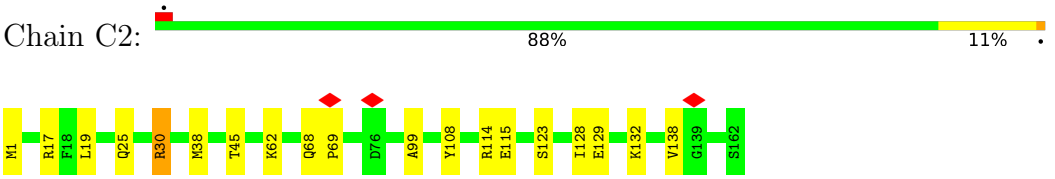
• Molecule 2: Phycocyanin alpha chain



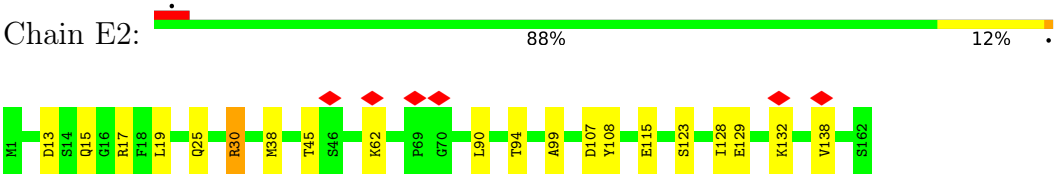
• Molecule 2: Phycocyanin alpha chain



• Molecule 2: Phycocyanin alpha chain

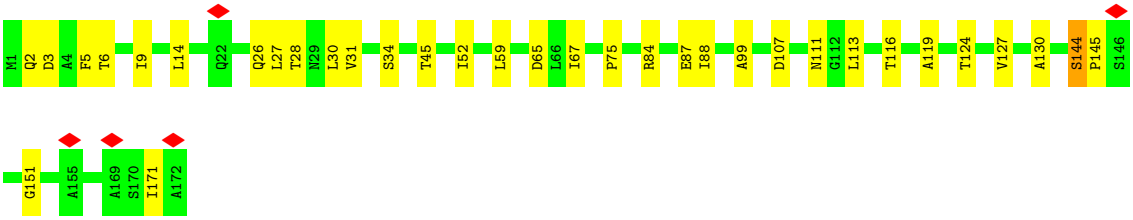


• Molecule 2: Phycocyanin alpha chain



• Molecule 3: Phycocyanin beta chain

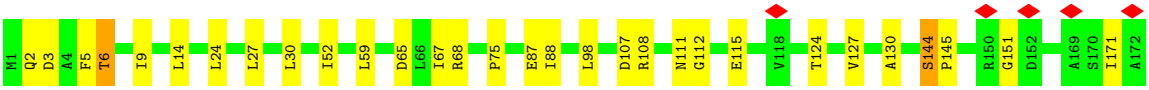




• Molecule 3: Phycocyanin beta chain

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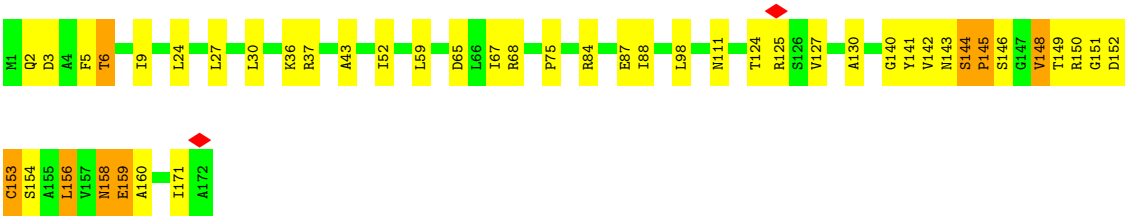




• Molecule 3: Phycocyanin beta chain

Chain FA:

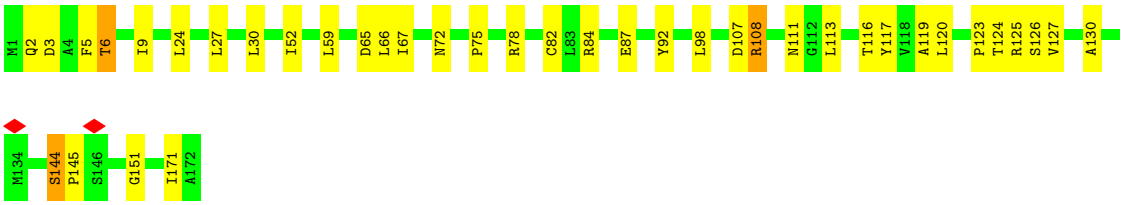




• Molecule 3: Phycocyanin beta chain

Chain HA:

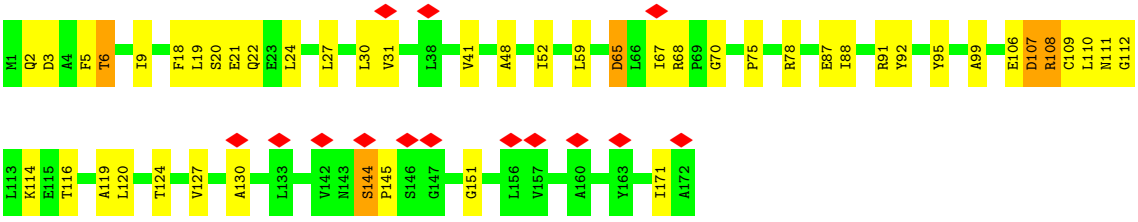




• Molecule 3: Phycocyanin beta chain

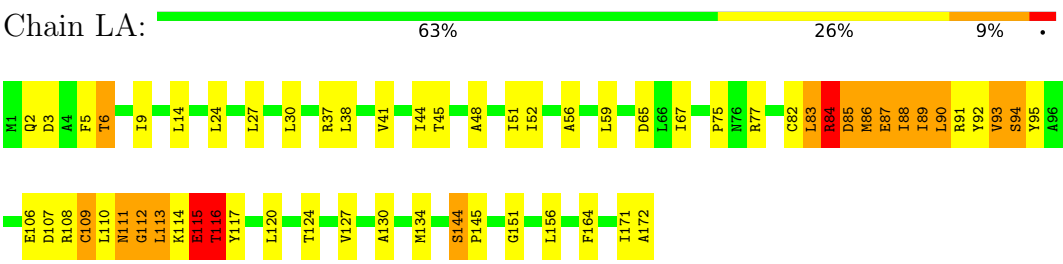
Chain JA:





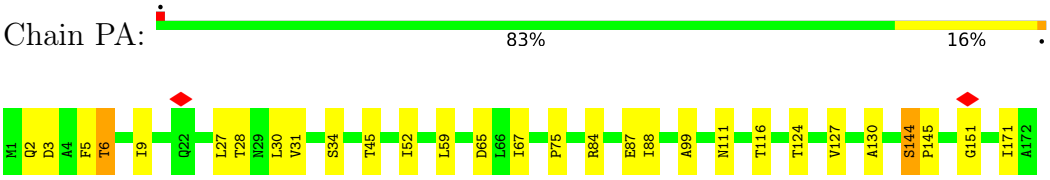
• Molecule 3: Phycocyanin beta chain

Chain LA:



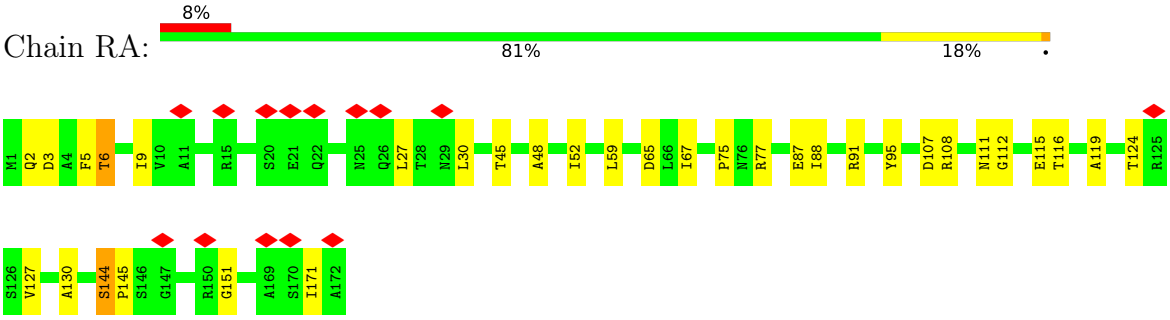
• Molecule 3: Phycocyanin beta chain

Chain PA:



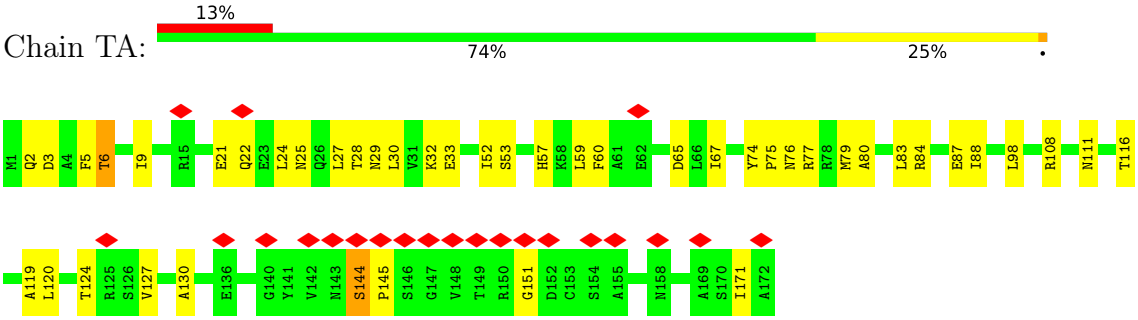
• Molecule 3: Phycocyanin beta chain

Chain RA:



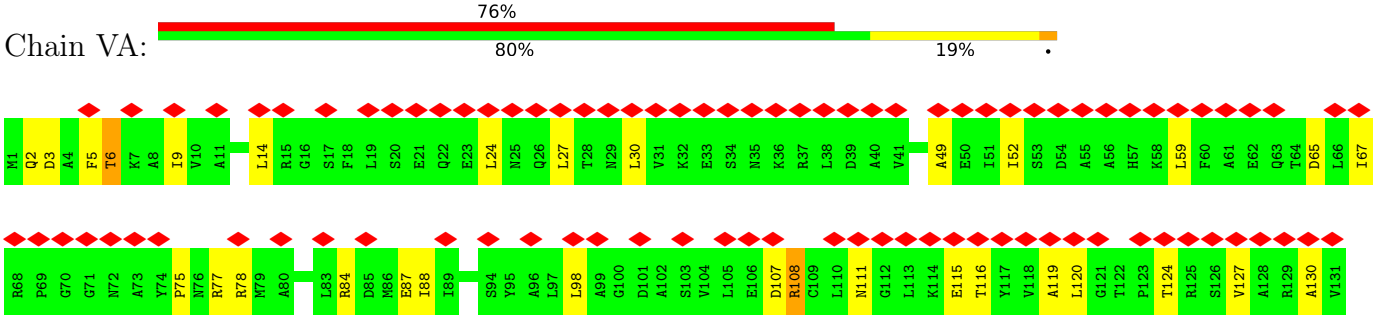
• Molecule 3: Phycocyanin beta chain

Chain TA:



• Molecule 3: Phycocyanin beta chain

Chain VA:

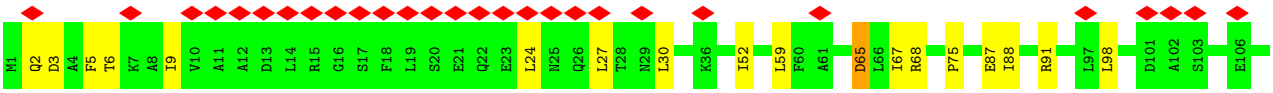


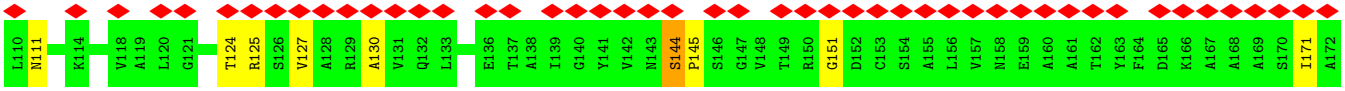


• Molecule 3: Phycocyanin beta chain

Chain XA:



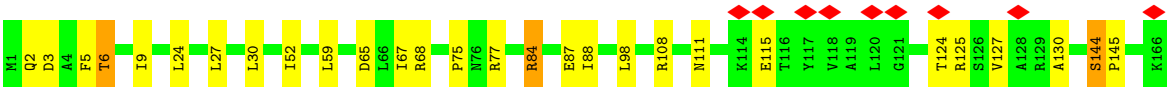


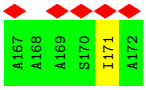


• Molecule 3: Phycocyanin beta chain

Chain ZA:



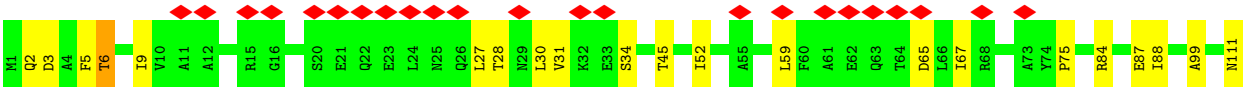


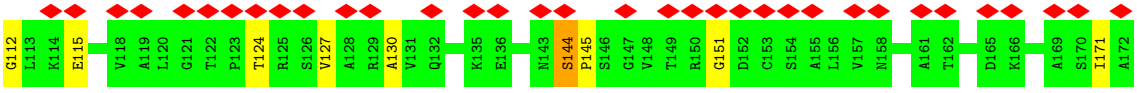


• Molecule 3: Phycocyanin beta chain

Chain P1:



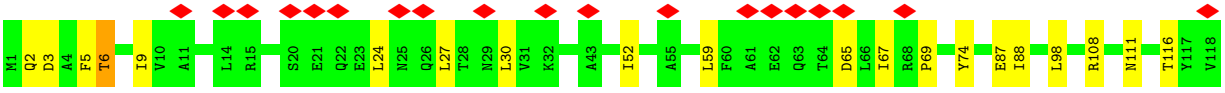


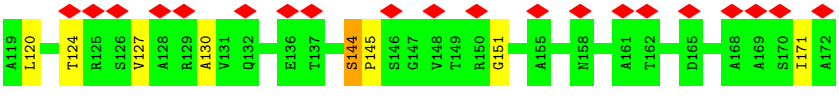


• Molecule 3: Phycocyanin beta chain

Chain R1:

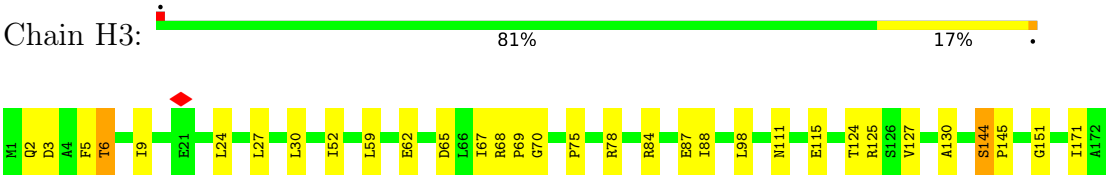






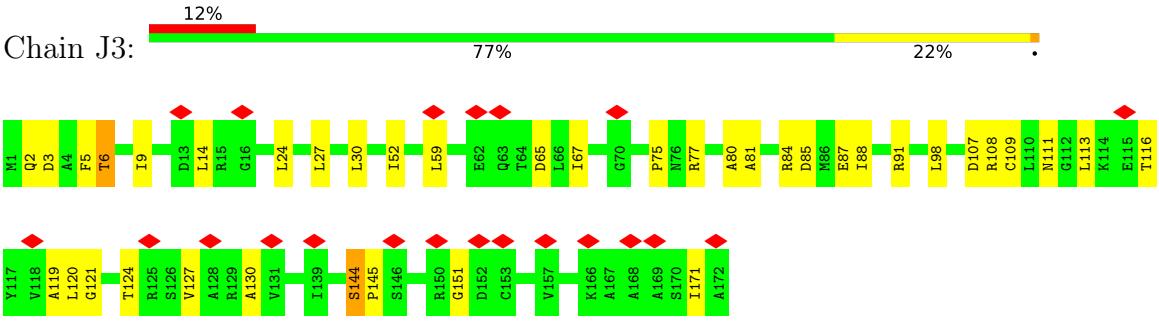
• Molecule 3: Phycocyanin beta chain

Chain H3:



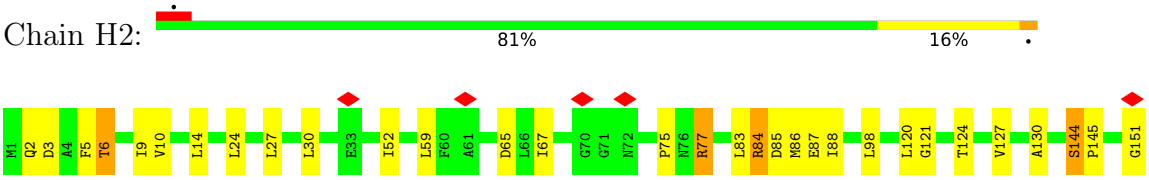
• Molecule 3: Phycocyanin beta chain

Chain J3:



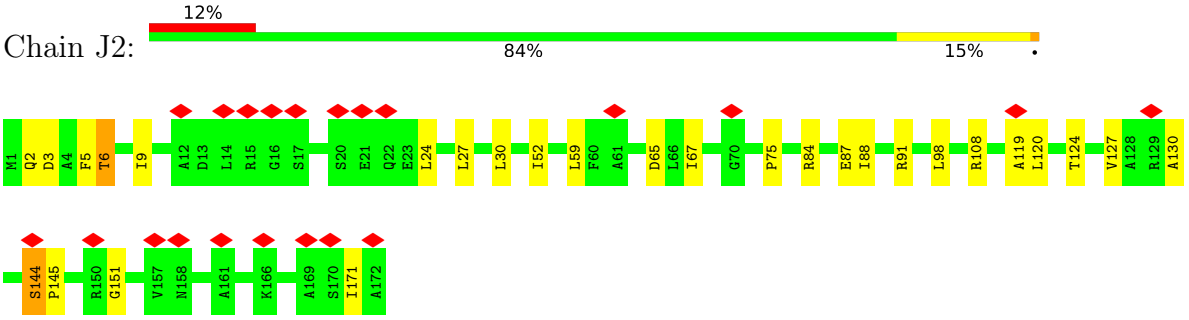
• Molecule 3: Phycocyanin beta chain

Chain H2:



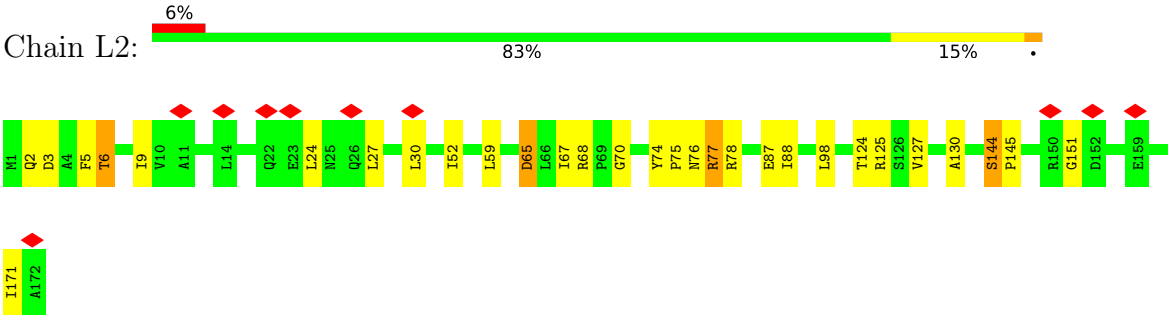
• Molecule 3: Phycocyanin beta chain

Chain J2:



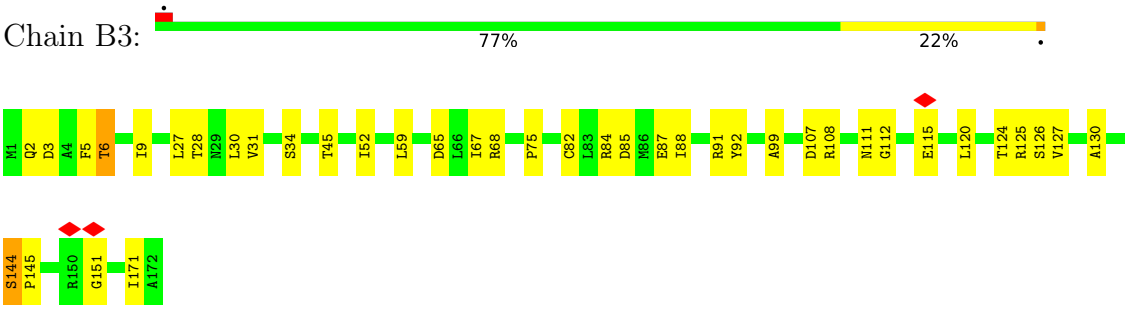
• Molecule 3: Phycocyanin beta chain

Chain L2:



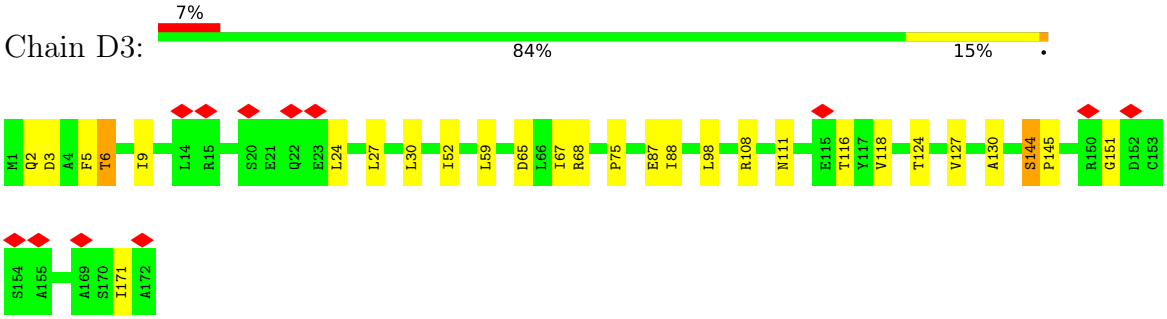
• Molecule 3: Phycocyanin beta chain

Chain B3:



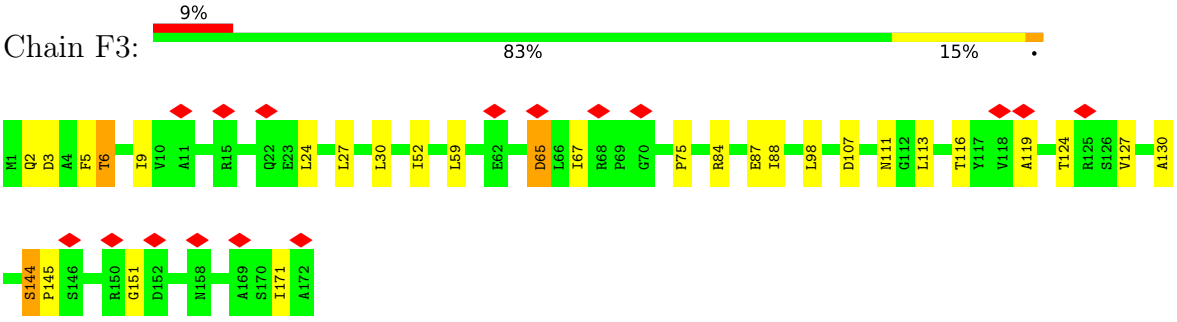
• Molecule 3: Phycocyanin beta chain

Chain D3:



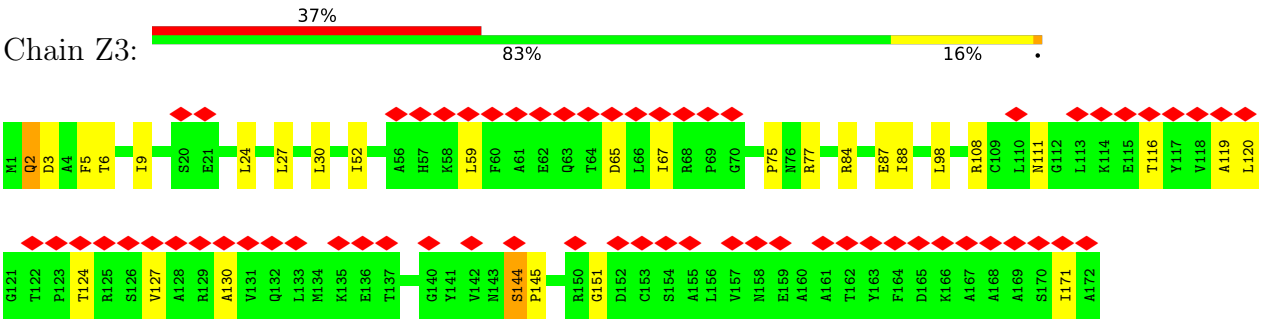
• Molecule 3: Phycocyanin beta chain

Chain F3:



• Molecule 3: Phycocyanin beta chain

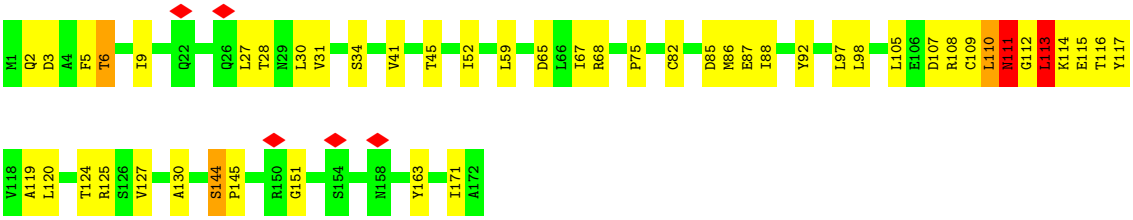
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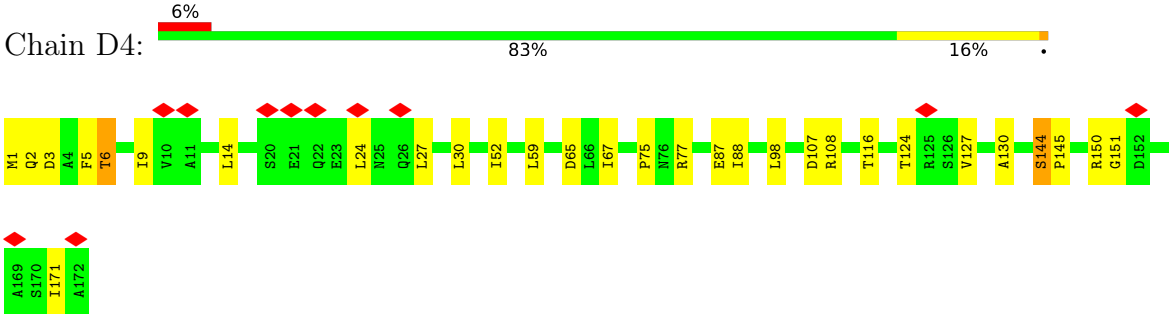
• Molecule 3: Phycocyanin beta chain

Chain B4:

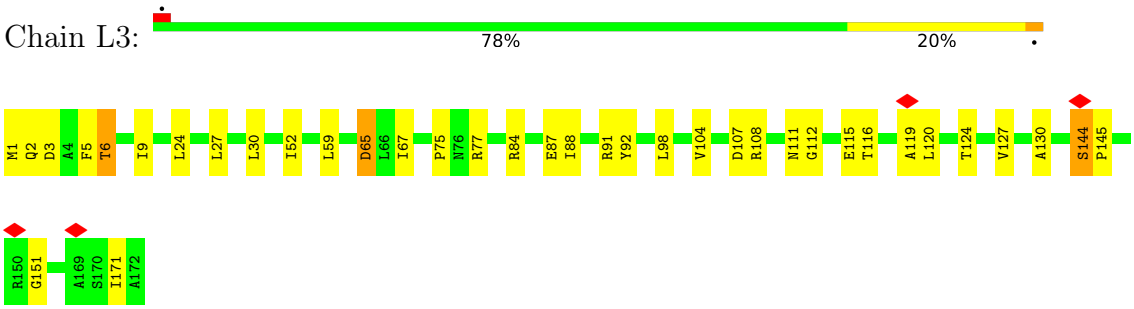




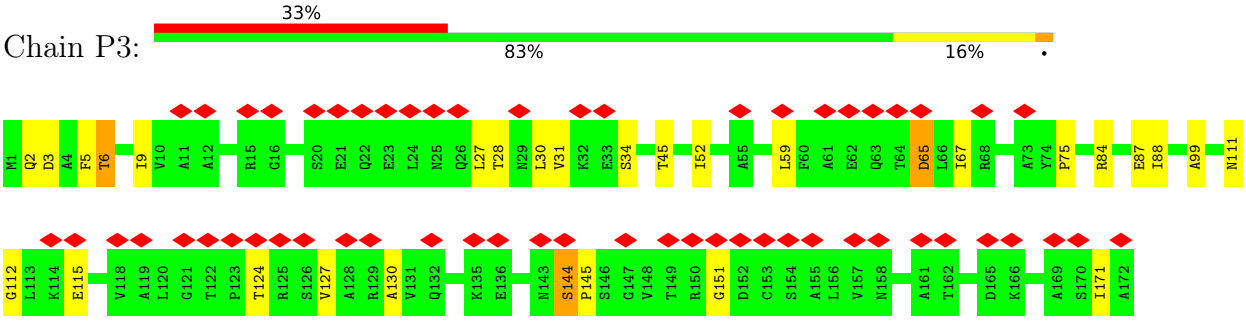
• Molecule 3: Phycocyanin beta chain



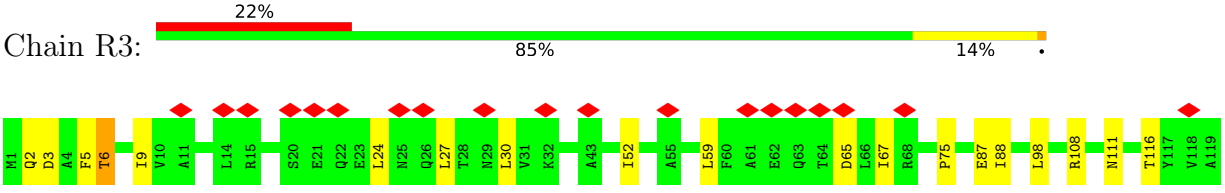
• Molecule 3: Phycocyanin beta chain

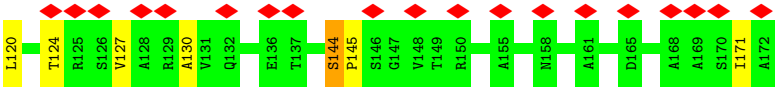


• Molecule 3: Phycocyanin beta chain



• Molecule 3: Phycocyanin beta chain

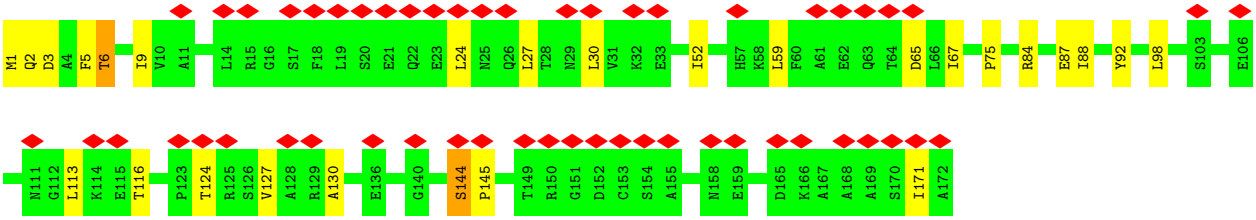




• Molecule 3: Phycocyanin beta chain

Chain T3:

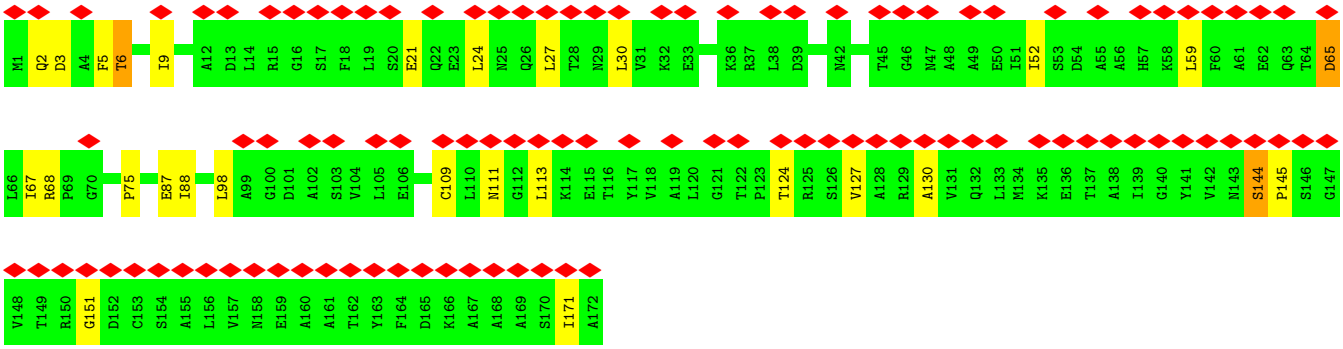




• Molecule 3: Phycocyanin beta chain

Chain V3:

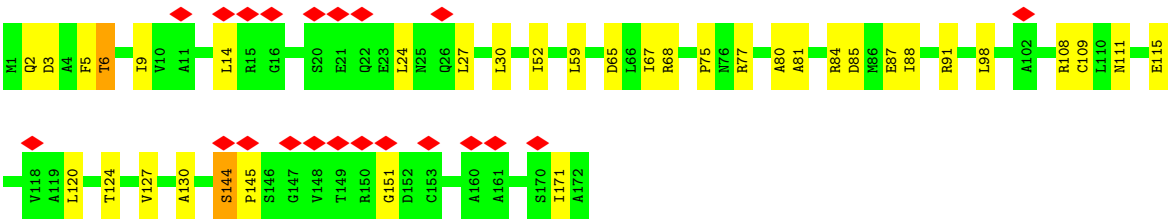




• Molecule 3: Phycocyanin beta chain

Chain X3:

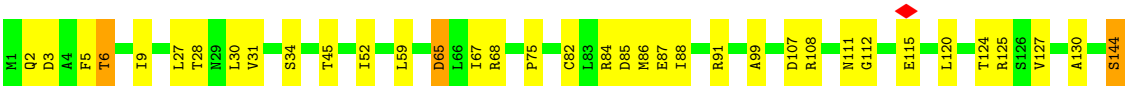




• Molecule 3: Phycocyanin beta chain

Chain B1:



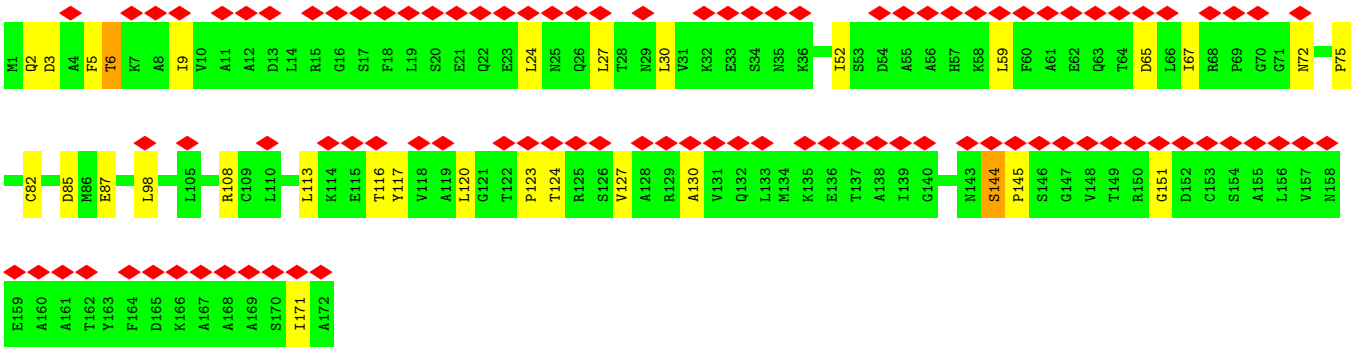




• Molecule 3: Phycocyanin beta chain

Chain S4:

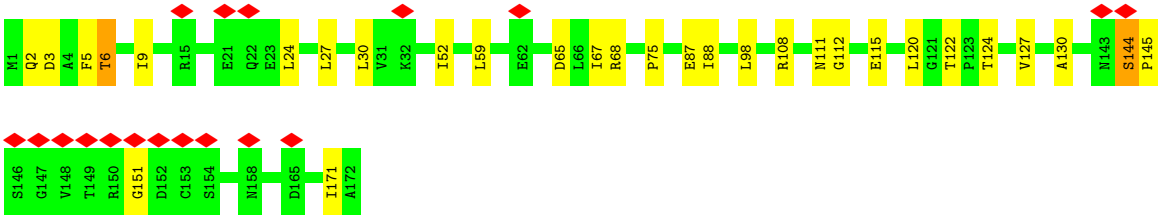




• Molecule 3: Phycocyanin beta chain

Chain U4:

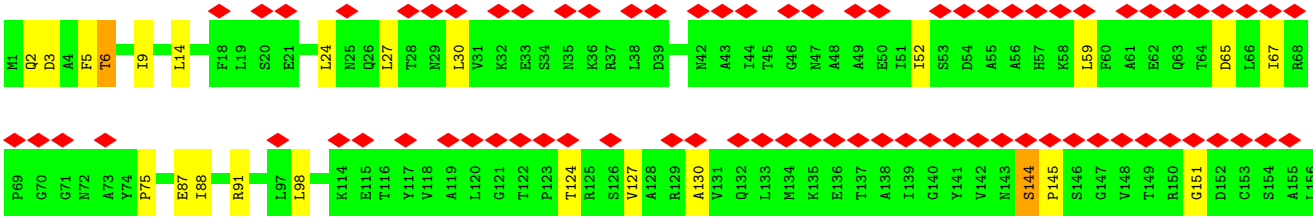




• Molecule 3: Phycocyanin beta chain

Chain W4:

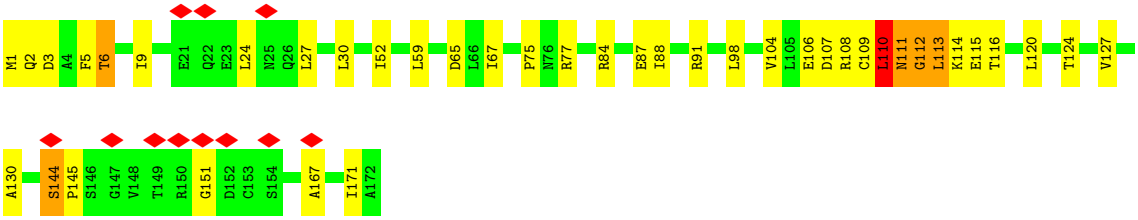




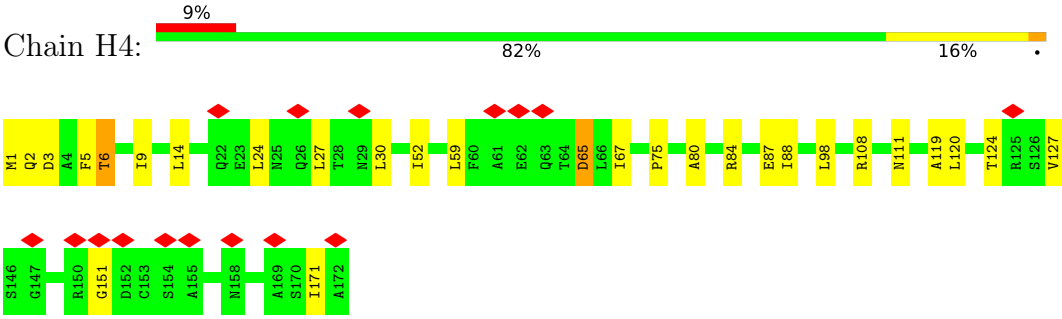
• Molecule 3: Phycocyanin beta chain

Chain F4:

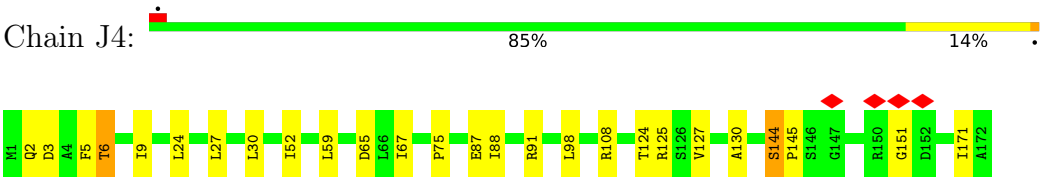




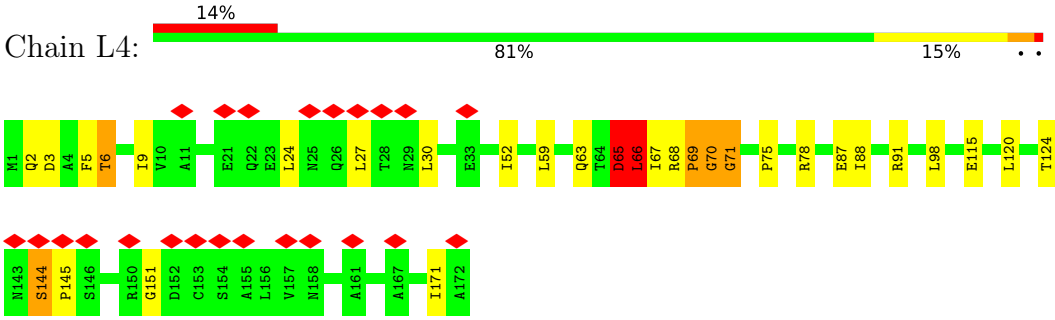
• Molecule 3: Phycocyanin beta chain



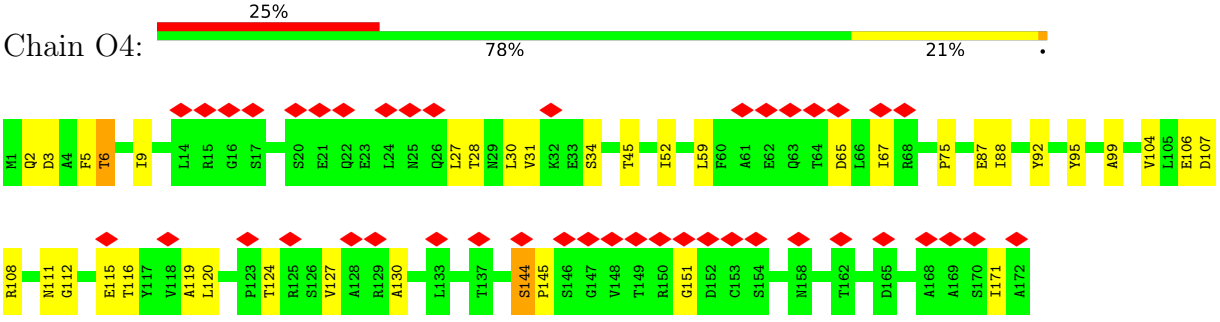
• Molecule 3: Phycocyanin beta chain



• Molecule 3: Phycocyanin beta chain

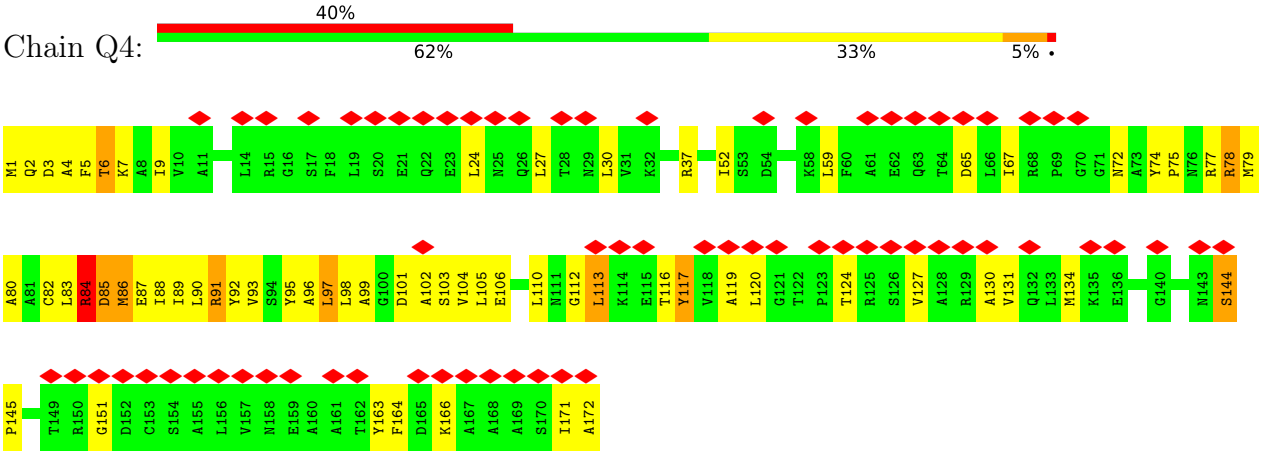


• Molecule 3: Phycocyanin beta chain



• Molecule 3: Phycocyanin beta chain

Chain Q4:



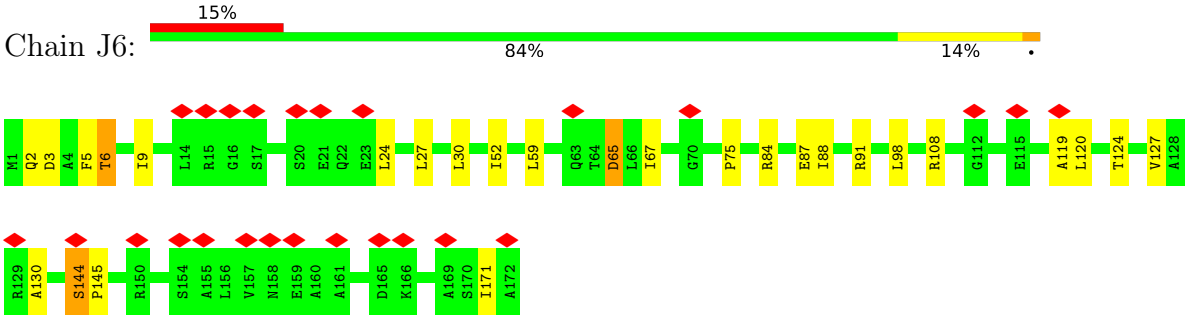
• Molecule 3: Phycocyanin beta chain

Chain Y4:



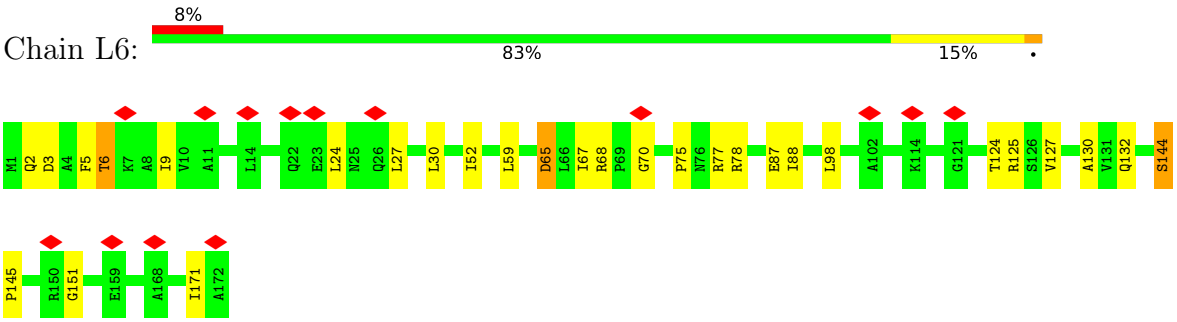
• Molecule 3: Phycocyanin beta chain

Chain J6:



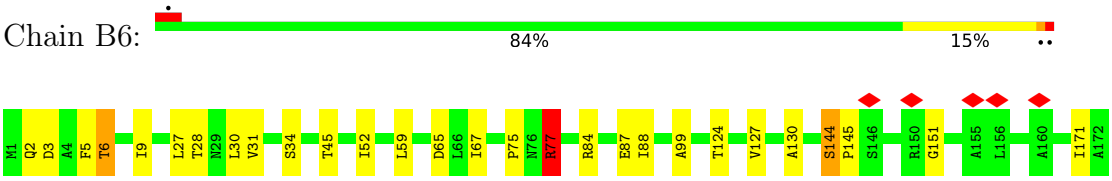
• Molecule 3: Phycocyanin beta chain

Chain L6:



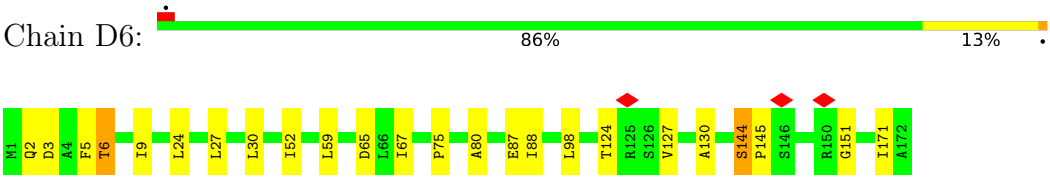
• Molecule 3: Phycocyanin beta chain

Chain B6:



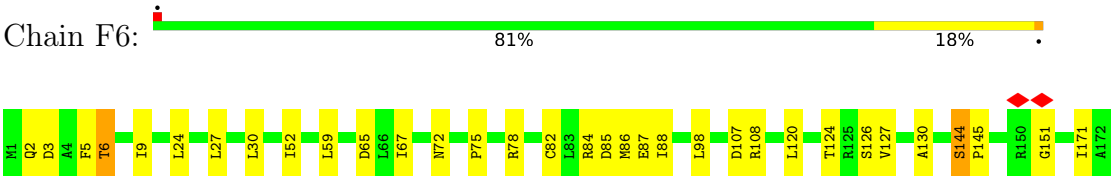
• Molecule 3: Phycocyanin beta chain

Chain D6:



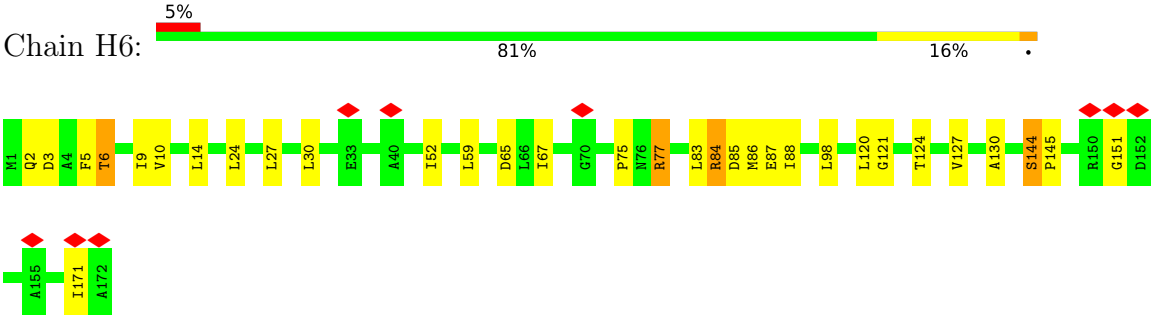
• Molecule 3: Phycocyanin beta chain

Chain F6:



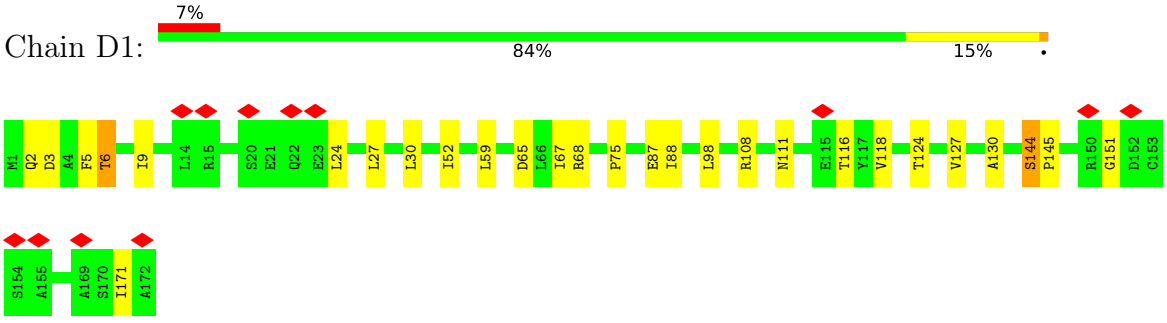
• Molecule 3: Phycocyanin beta chain

Chain H6:



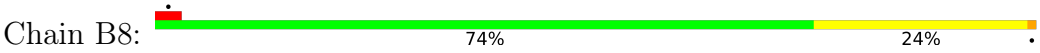
• Molecule 3: Phycocyanin beta chain

Chain D1:



• Molecule 3: Phycocyanin beta chain

Chain B8:

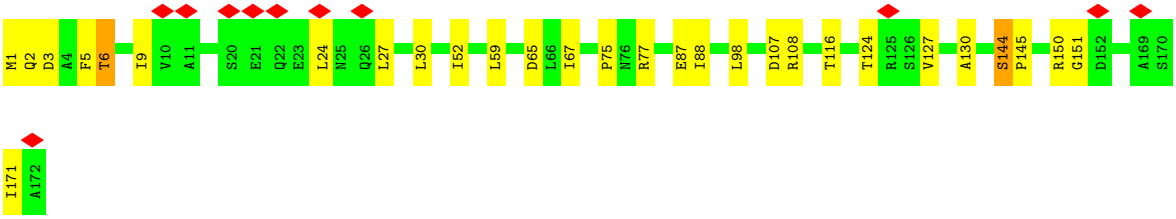




• Molecule 3: Phycocyanin beta chain

Chain D8:

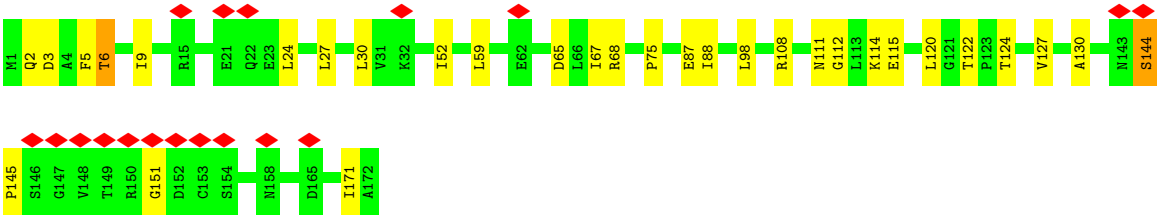




• Molecule 3: Phycocyanin beta chain

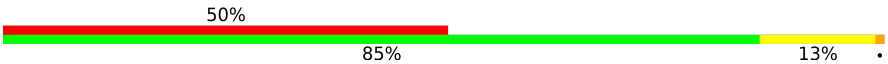
Chain U8:

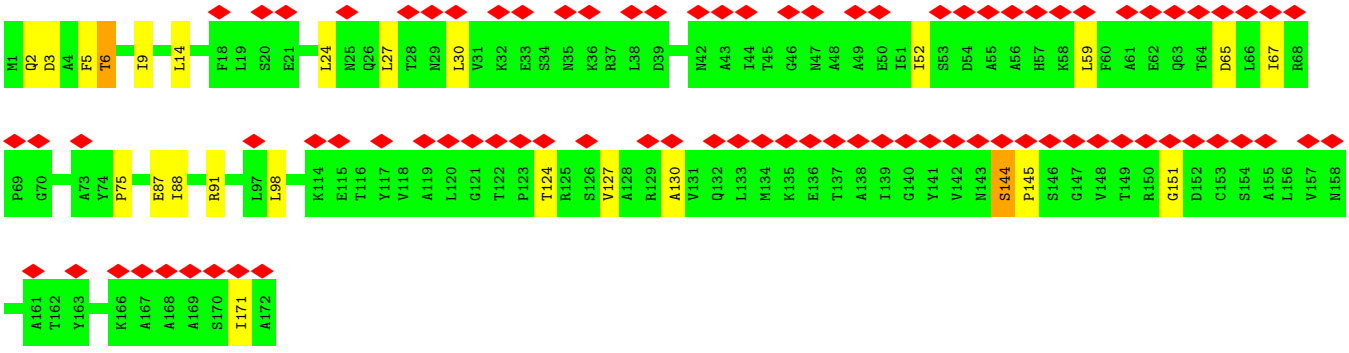




• Molecule 3: Phycocyanin beta chain

Chain W8:

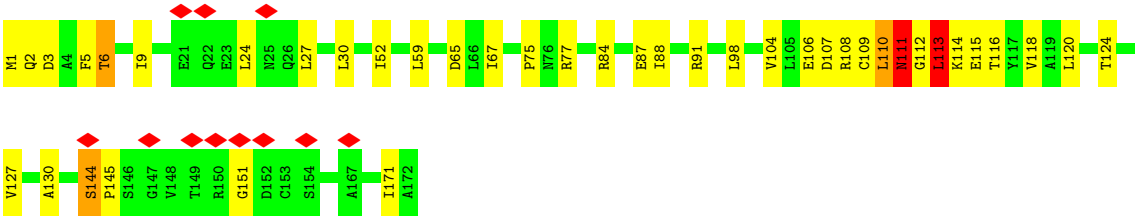




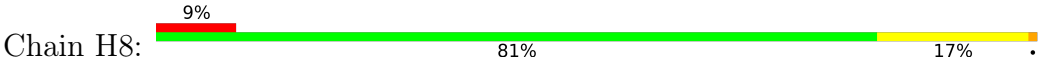
• Molecule 3: Phycocyanin beta chain

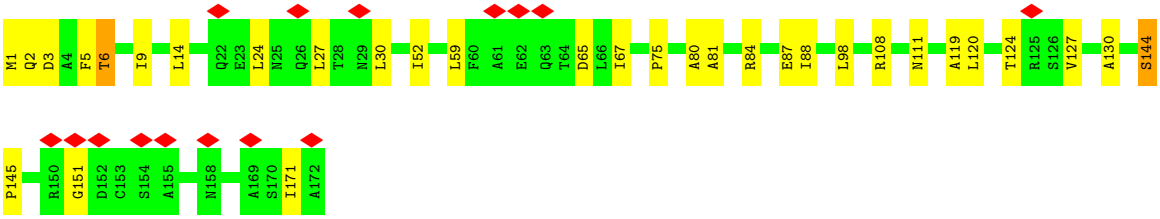
Chain F8:



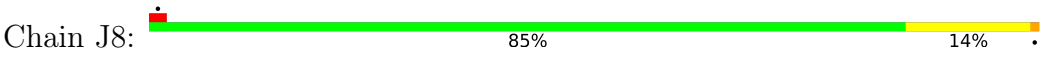


• Molecule 3: Phycocyanin beta chain



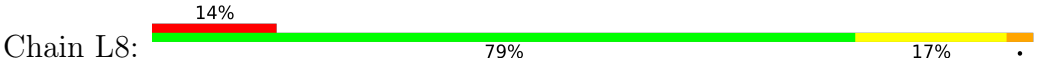


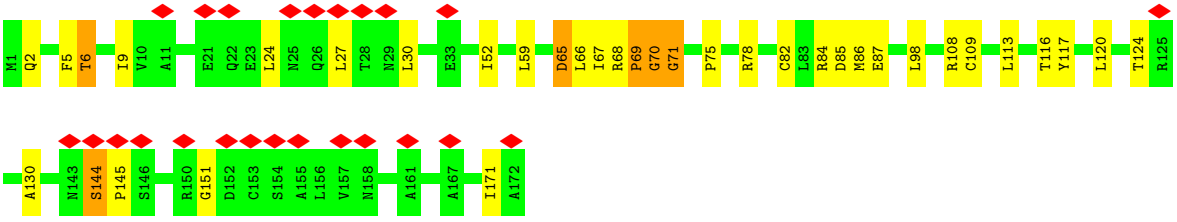
• Molecule 3: Phycocyanin beta chain



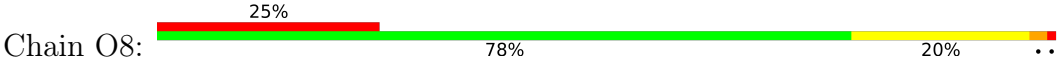


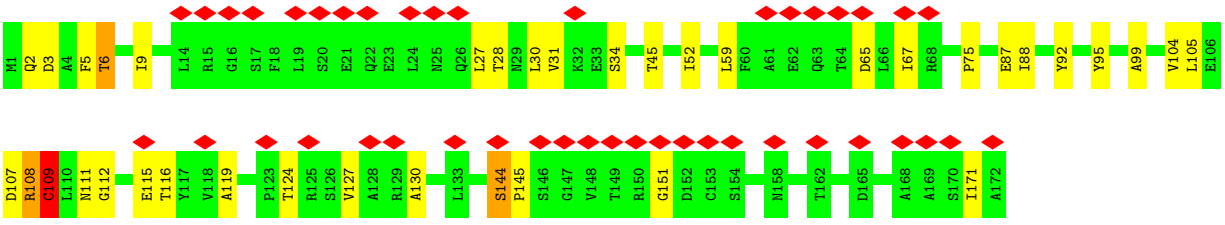
• Molecule 3: Phycocyanin beta chain





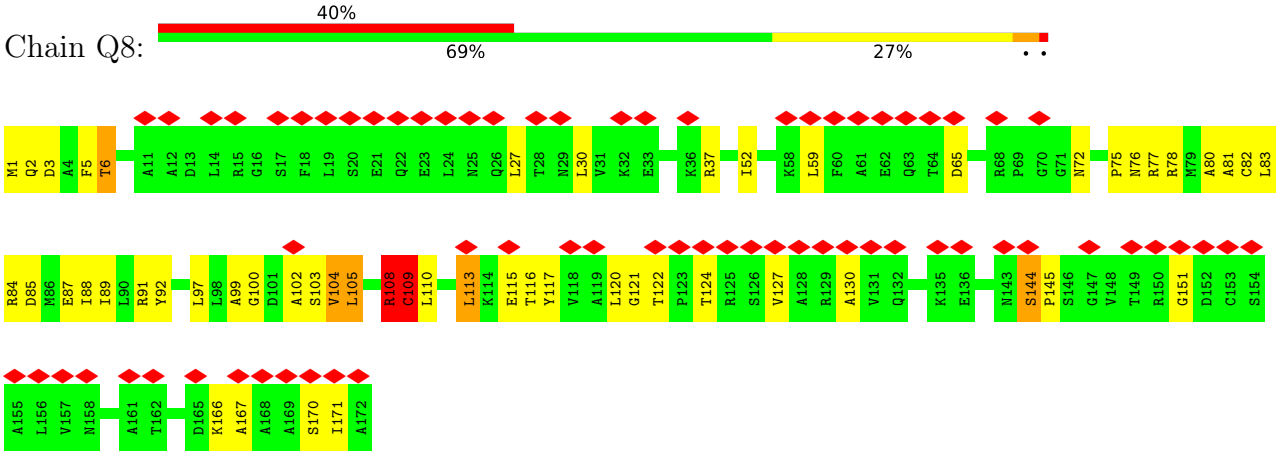
• Molecule 3: Phycocyanin beta chain





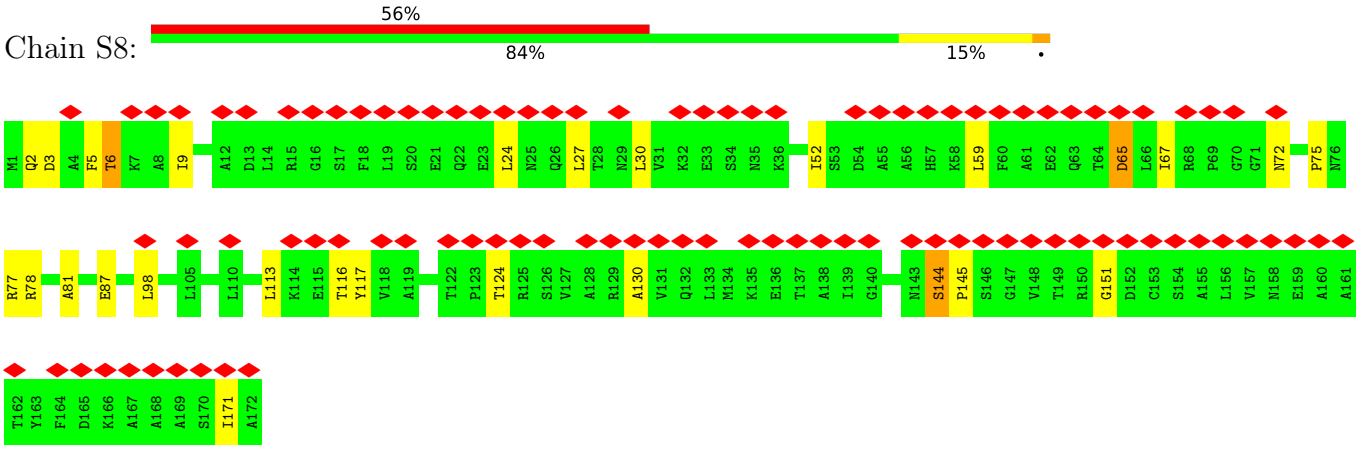
• Molecule 3: Phycocyanin beta chain

Chain Q8:



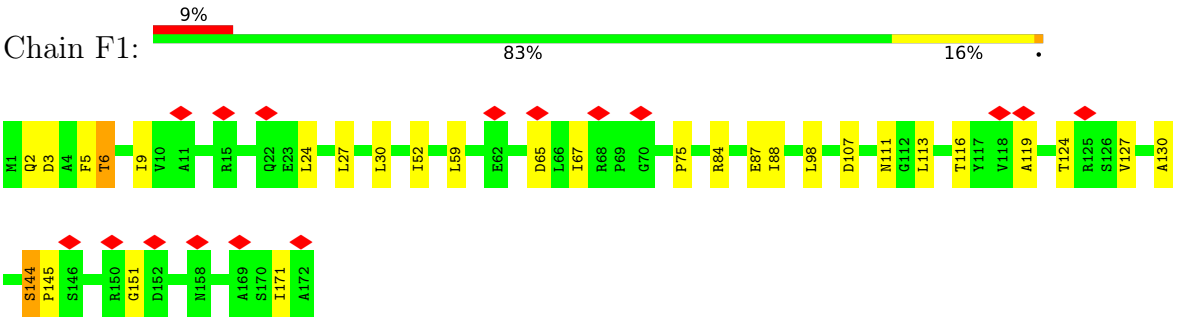
• Molecule 3: Phycocyanin beta chain

Chain S8:



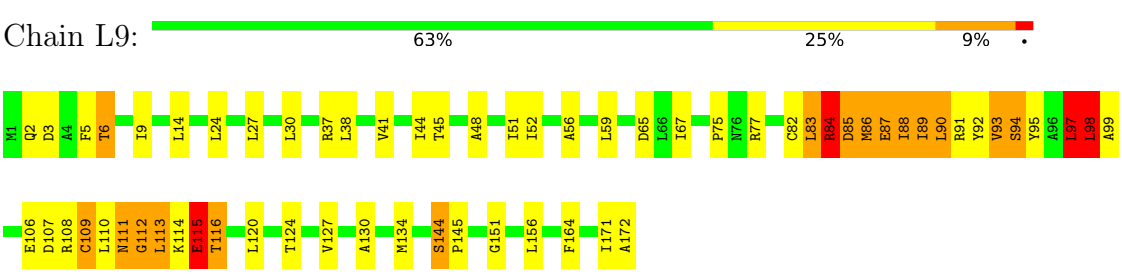
• Molecule 3: Phycocyanin beta chain

Chain F1:



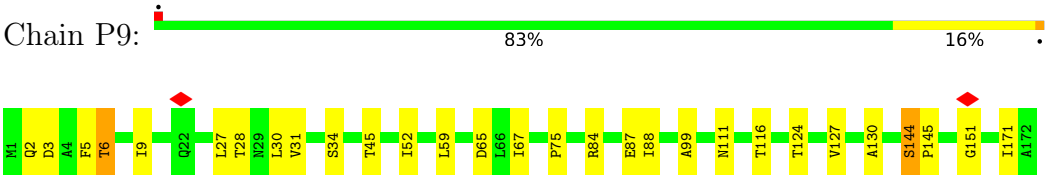
• Molecule 3: Phycocyanin beta chain

Chain L9:



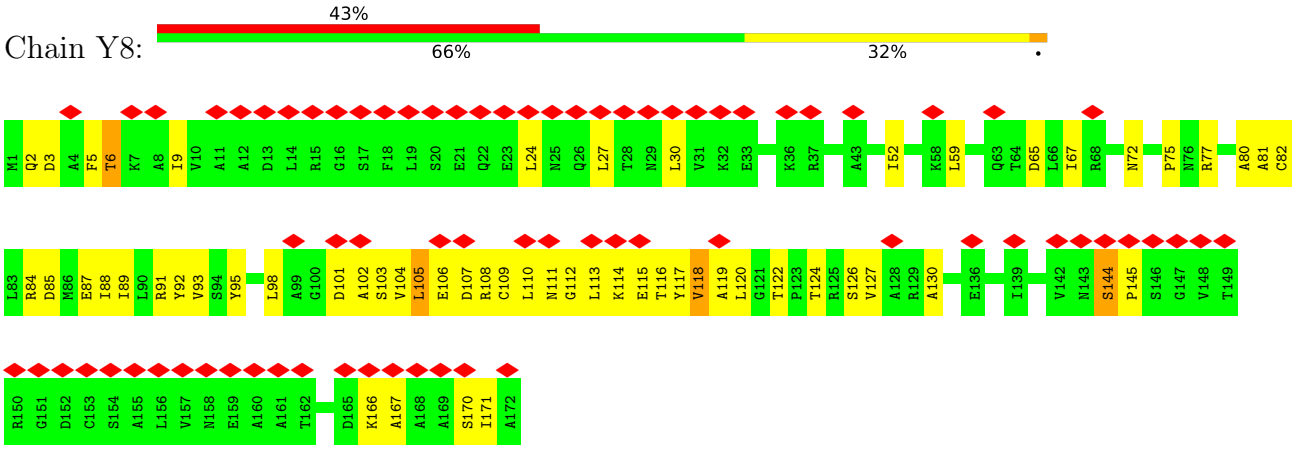
• Molecule 3: Phycocyanin beta chain

Chain P9:



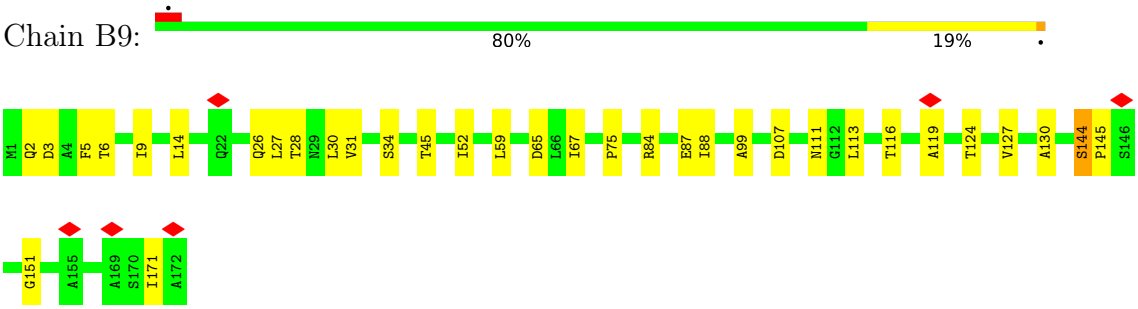
• Molecule 3: Phycocyanin beta chain

Chain Y8:



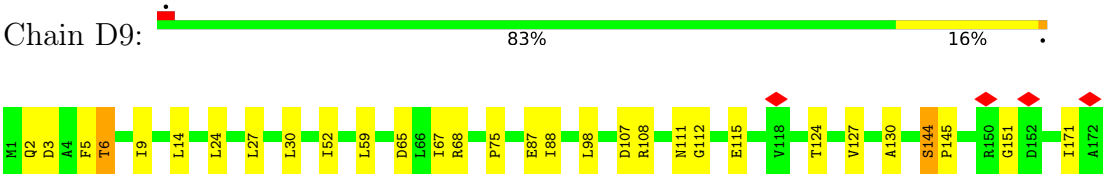
• Molecule 3: Phycocyanin beta chain

Chain B9:



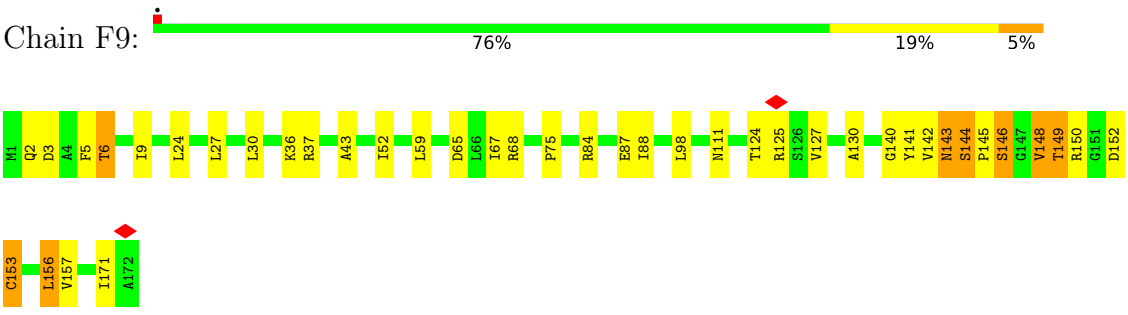
• Molecule 3: Phycocyanin beta chain

Chain D9:



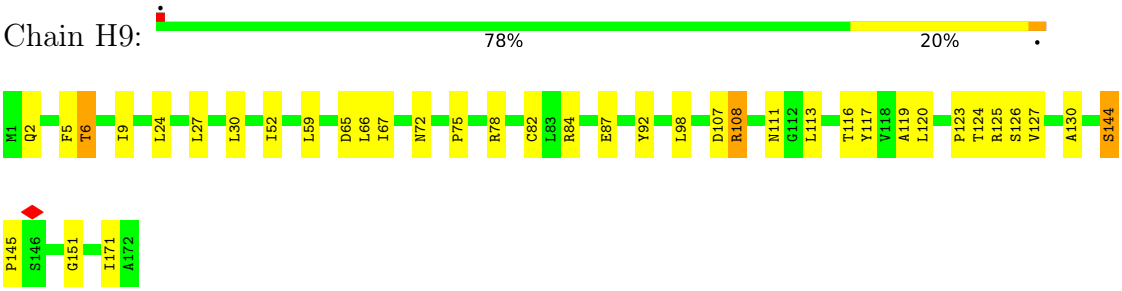
• Molecule 3: Phycocyanin beta chain

Chain F9:



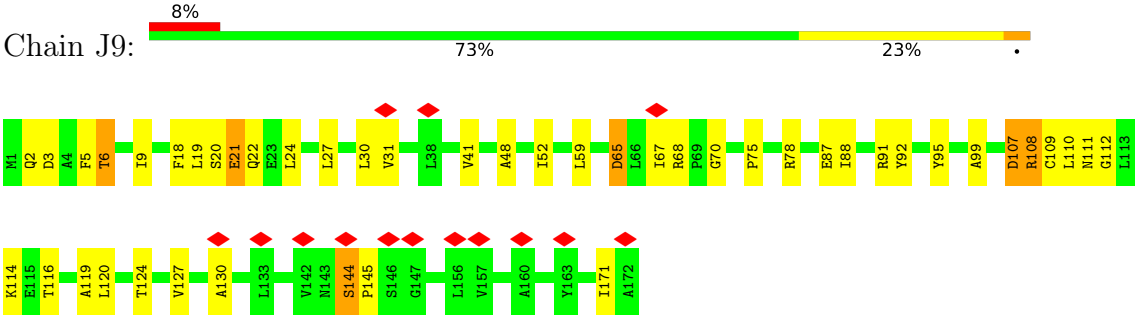
• Molecule 3: Phycocyanin beta chain

Chain H9:



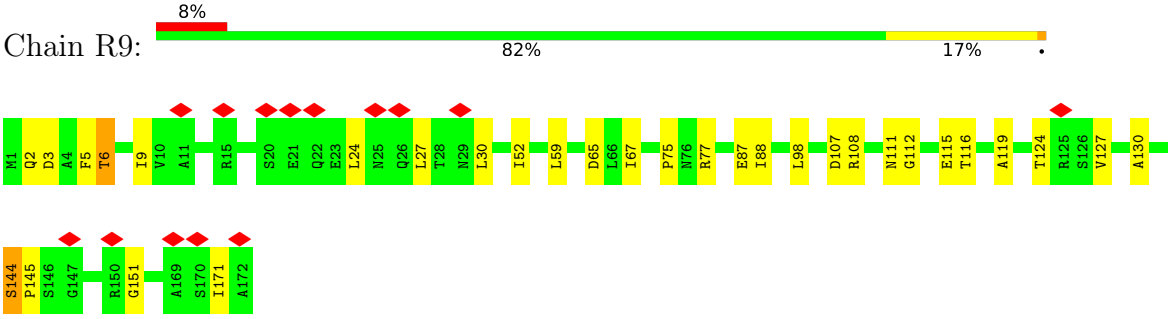
• Molecule 3: Phycocyanin beta chain

Chain J9:



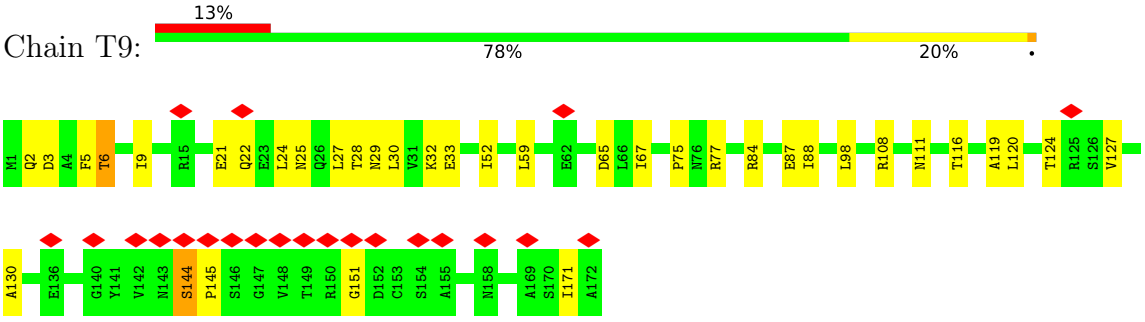
• Molecule 3: Phycocyanin beta chain

Chain R9:



• Molecule 3: Phycocyanin beta chain

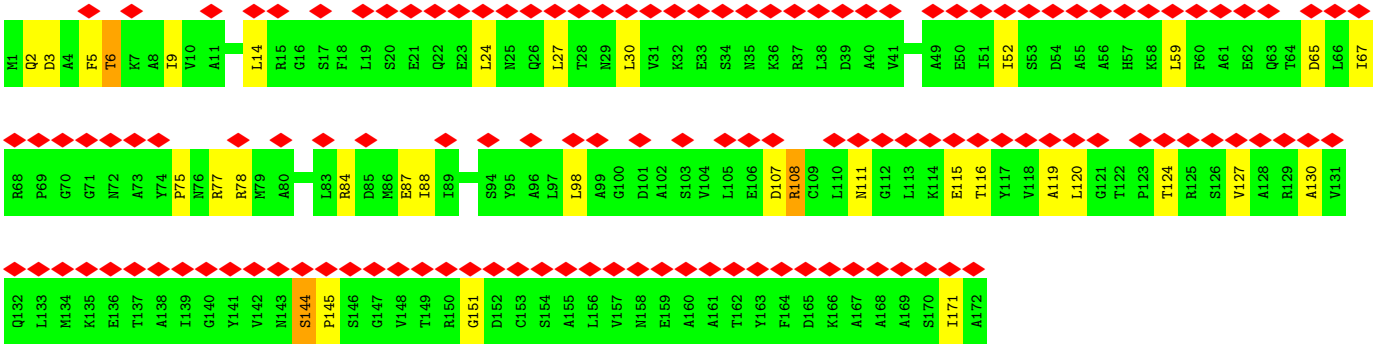
Chain T9:



• Molecule 3: Phycocyanin beta chain

Chain V9:

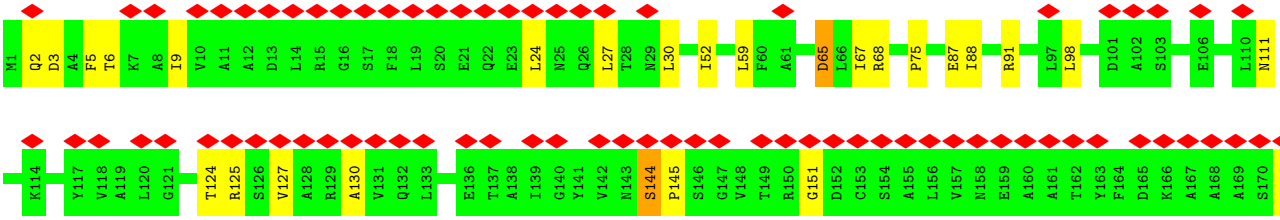




• Molecule 3: Phycocyanin beta chain

Chain X9:

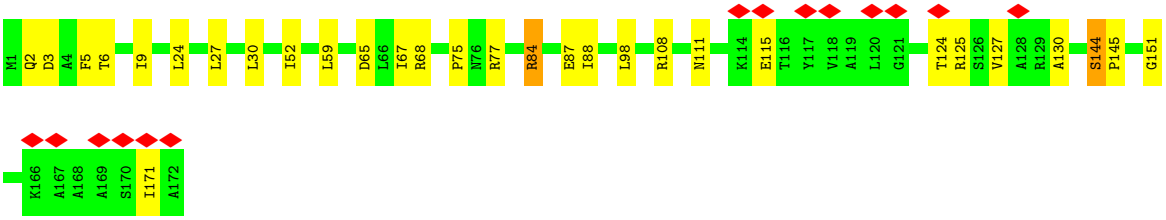




• Molecule 3: Phycocyanin beta chain

Chain Z9:

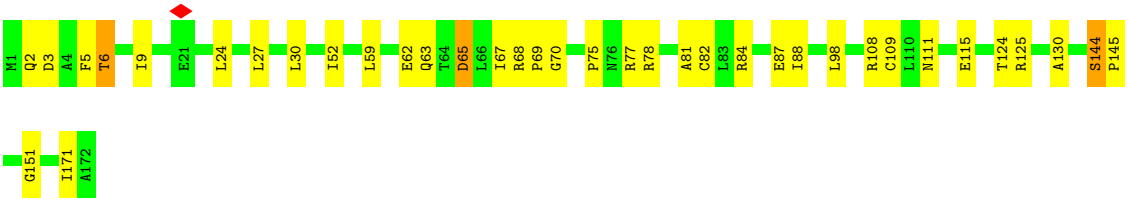




• Molecule 3: Phycocyanin beta chain

Chain H1:

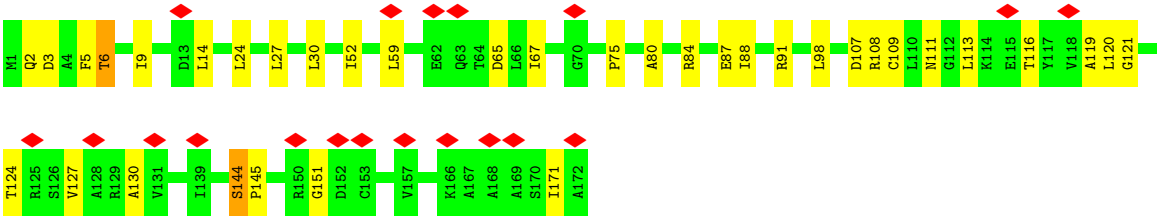




• Molecule 3: Phycocyanin beta chain

Chain J1:

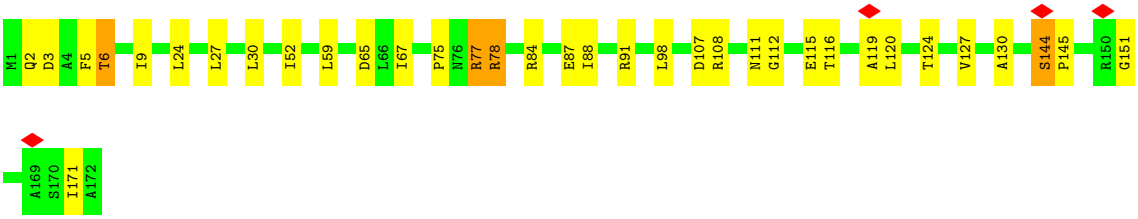




• Molecule 3: Phycocyanin beta chain

Chain L1:

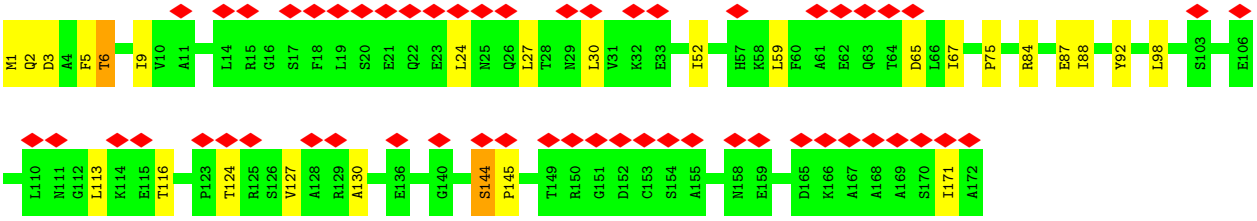




• Molecule 3: Phycocyanin beta chain

Chain T1:

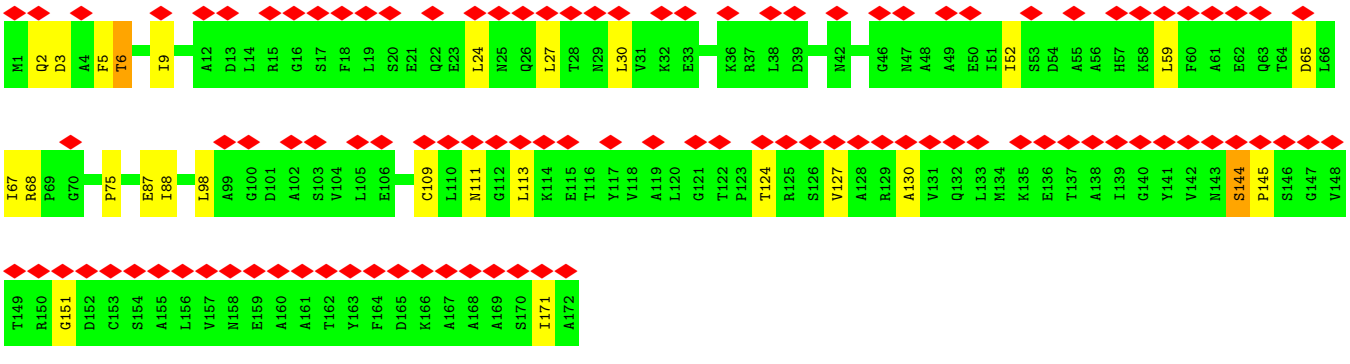




• Molecule 3: Phycocyanin beta chain

Chain V1:

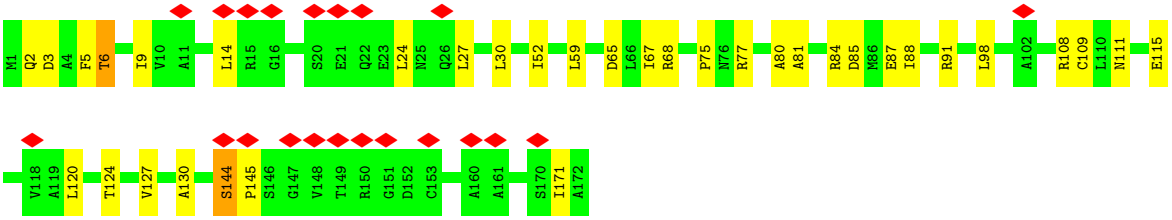




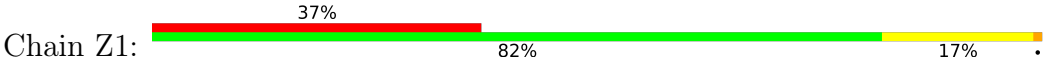
• Molecule 3: Phycocyanin beta chain

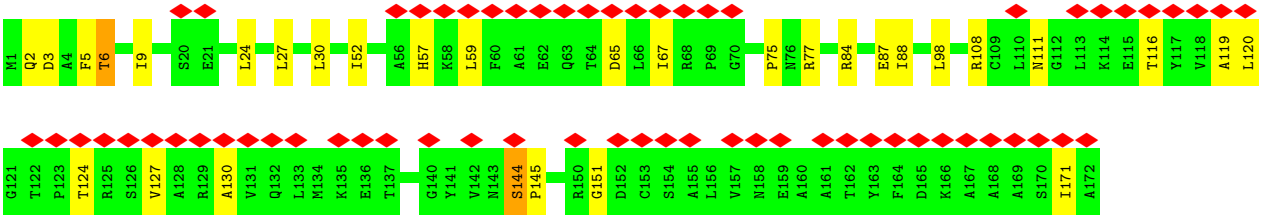
Chain X1:



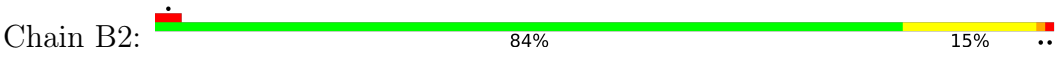


• Molecule 3: Phycocyanin beta chain



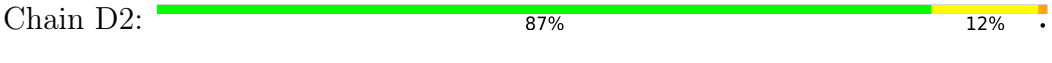


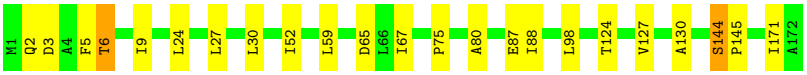
• Molecule 3: Phycocyanin beta chain



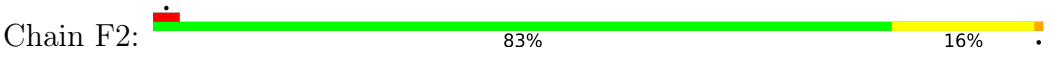


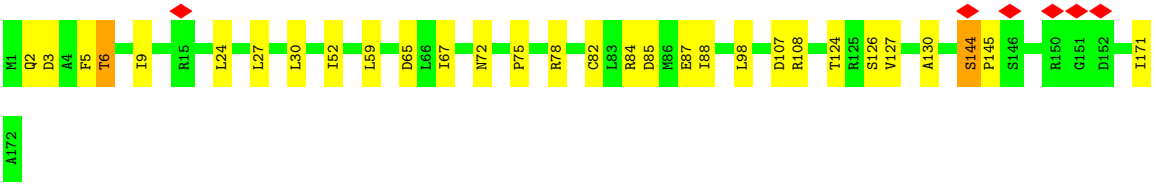
• Molecule 3: Phycocyanin beta chain



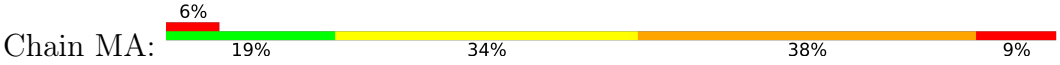


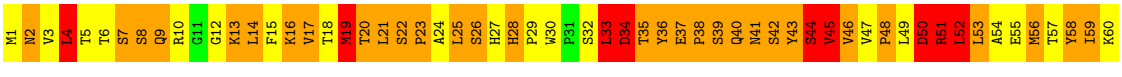
• Molecule 3: Phycocyanin beta chain

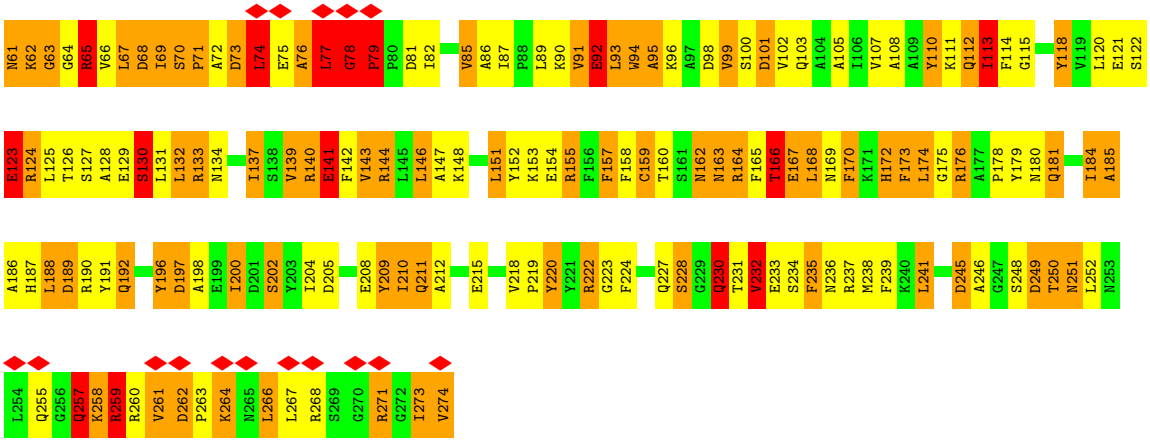




• Molecule 4: Phycocyanin-associated rod linker protein



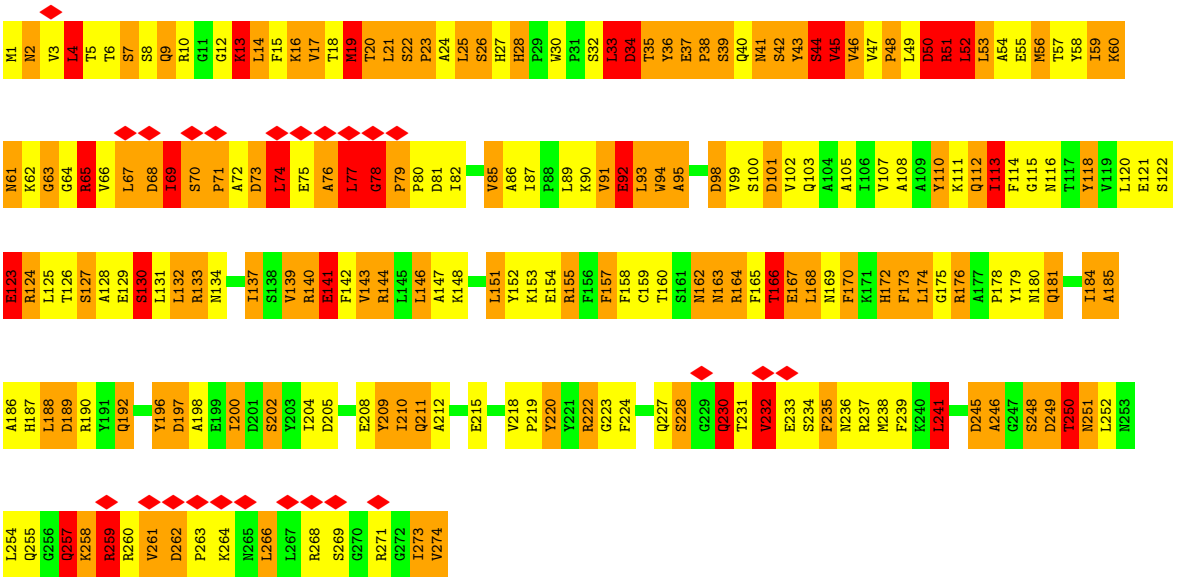




• Molecule 4: Phycocyanin-associated rod linker protein

Chain M3:

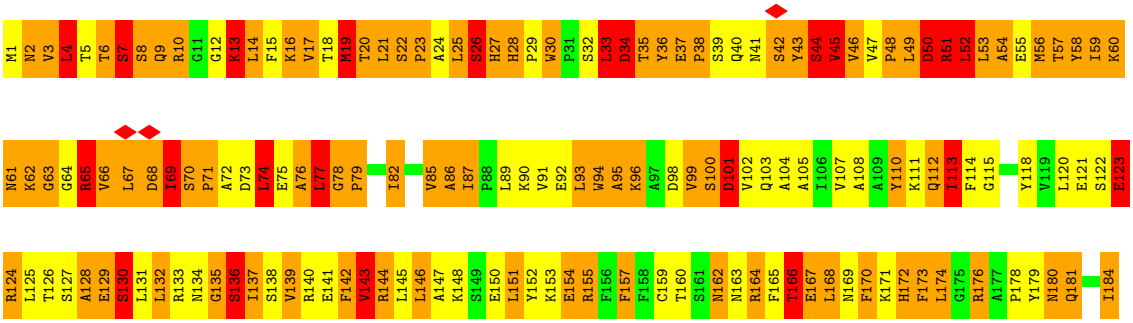


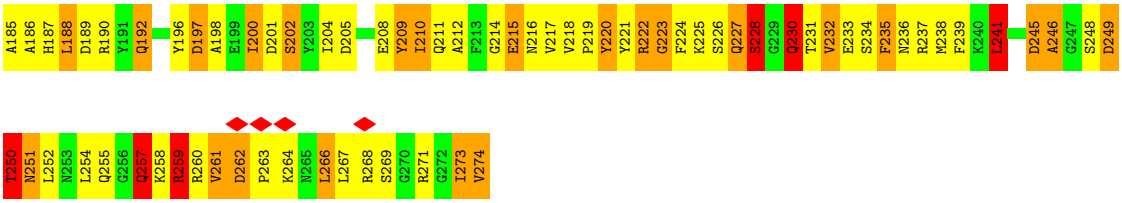


• Molecule 4: Phycocyanin-associated rod linker protein

Chain M4:



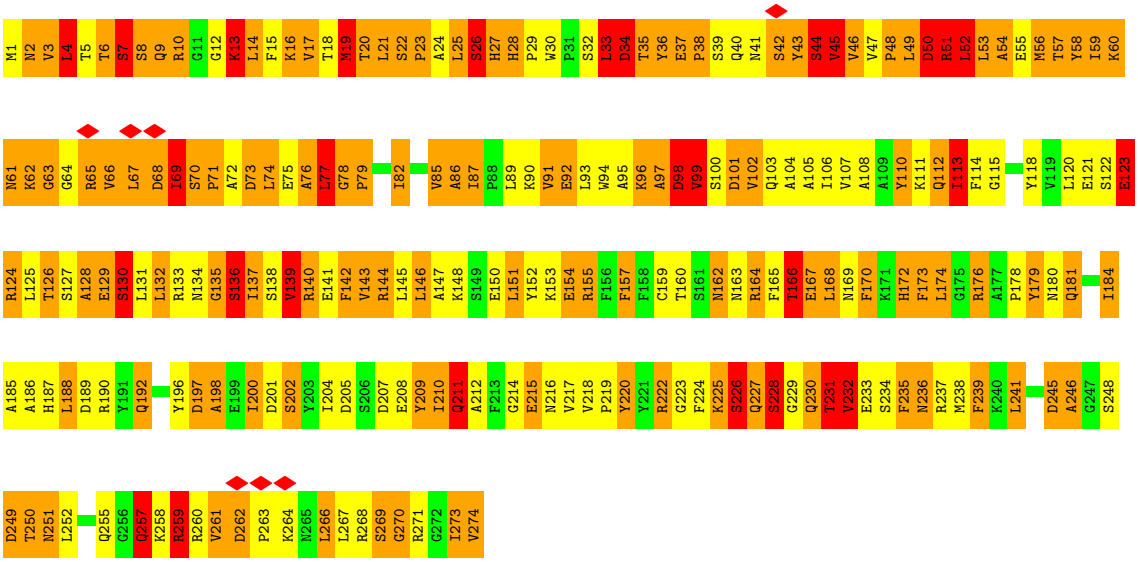




• Molecule 4: Phycocyanin-associated rod linker protein

Chain M8:

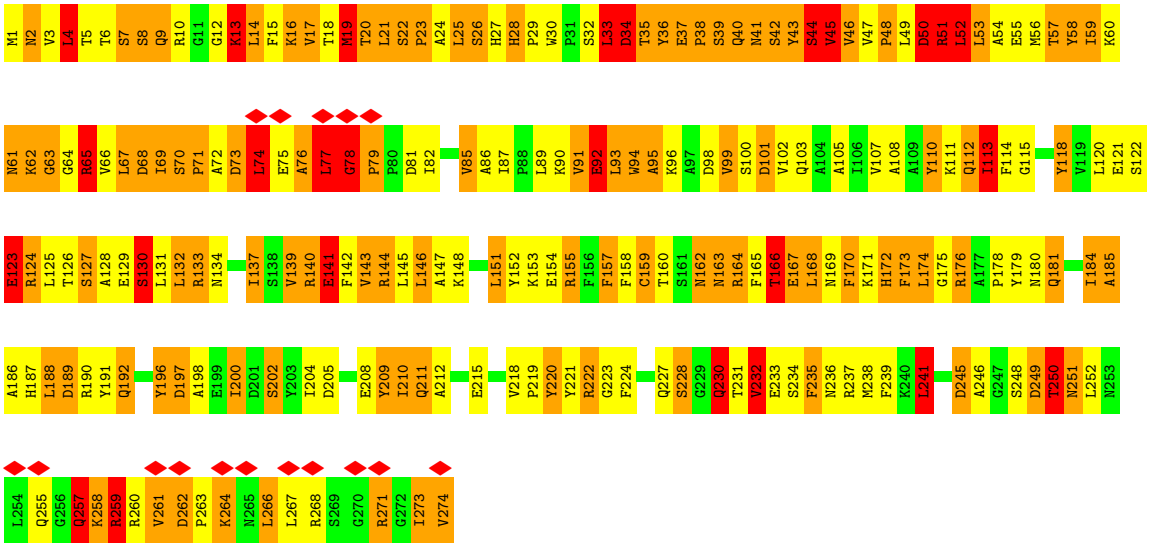




• Molecule 4: Phycocyanin-associated rod linker protein

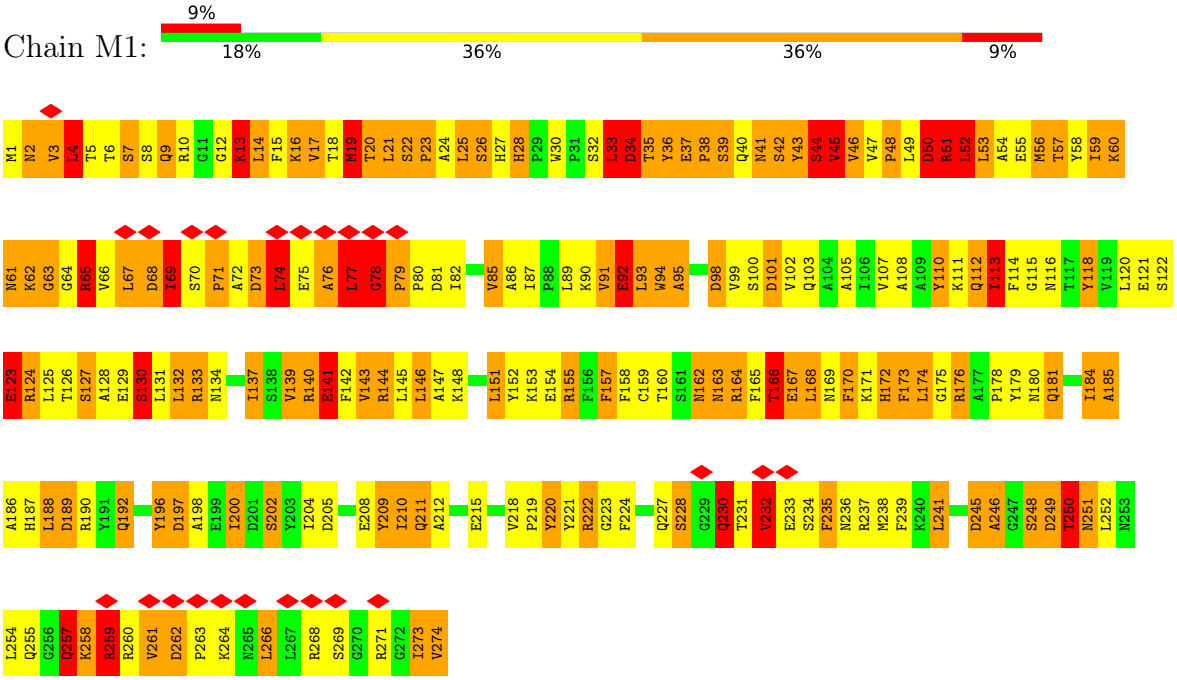
Chain M9:





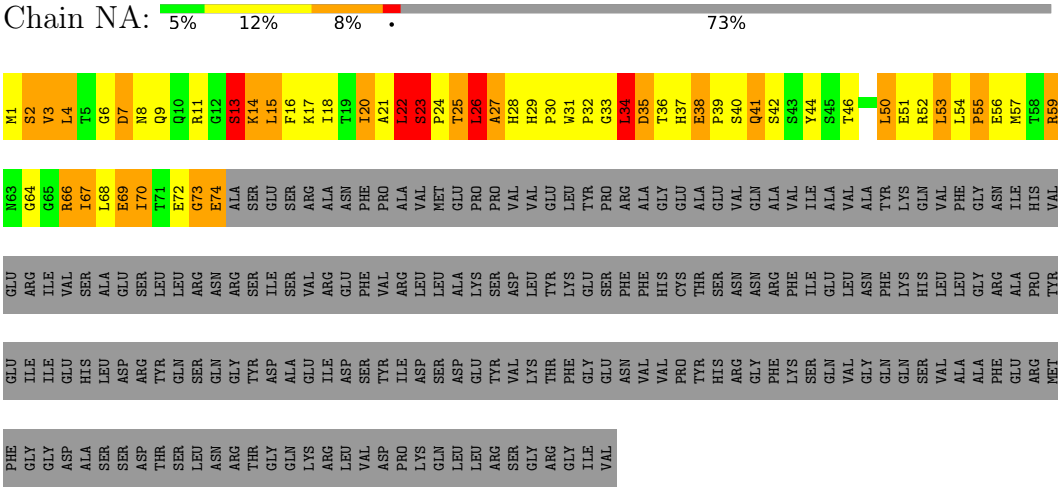
• Molecule 4: Phycocyanin-associated rod linker protein

Chain M1:



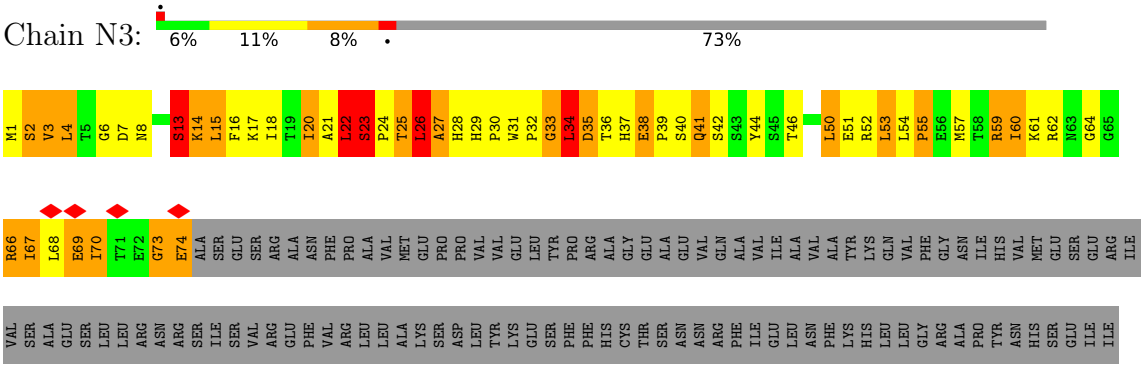
• Molecule 5: Phycocyanin-associated rod linker protein

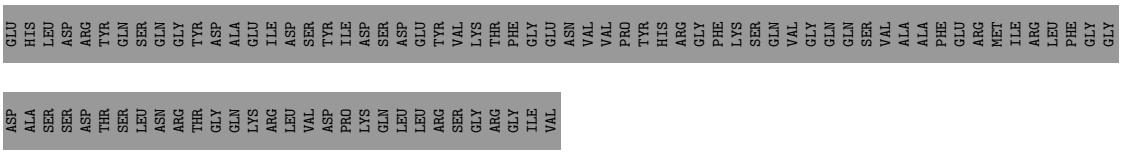
Chain NA:



• Molecule 5: Phycocyanin-associated rod linker protein

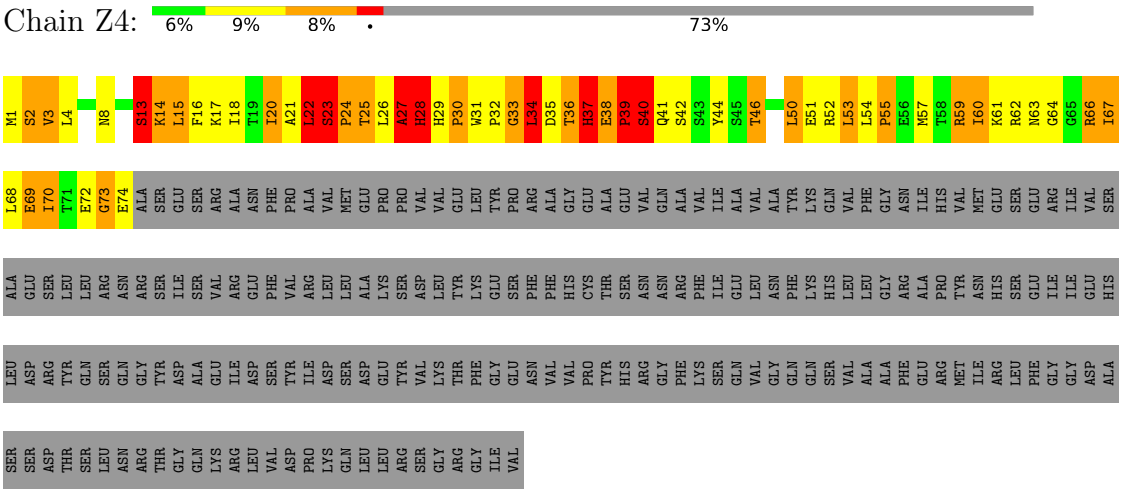
Chain N3:





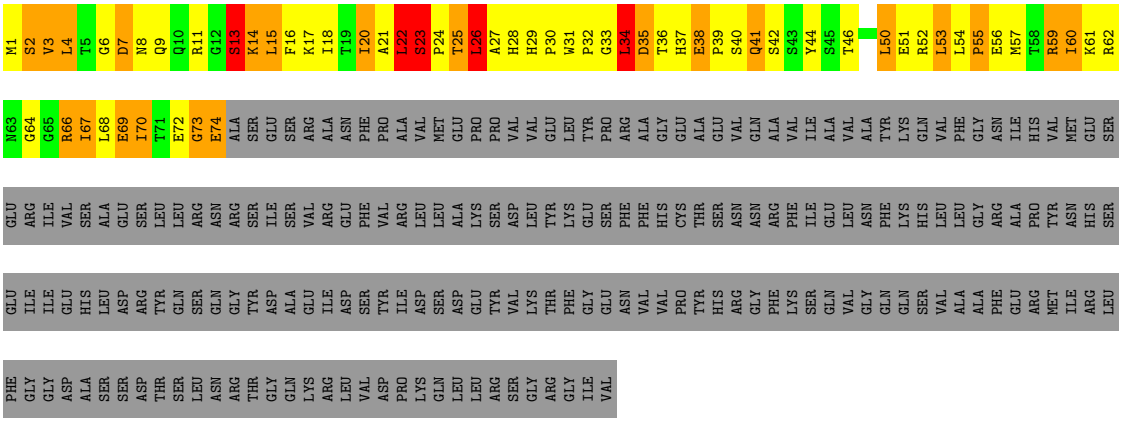
• Molecule 5: Phycocyanin-associated rod linker protein

Chain Z4:



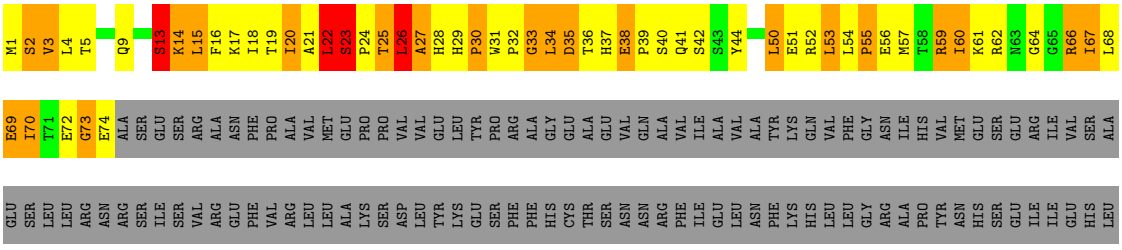
• Molecule 5: Phycocyanin-associated rod linker protein

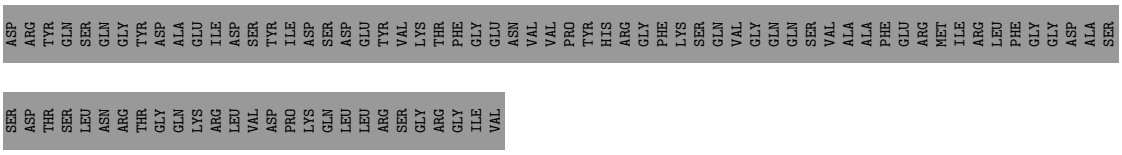
Chain N9:



• Molecule 5: Phycocyanin-associated rod linker protein

Chain Z8:

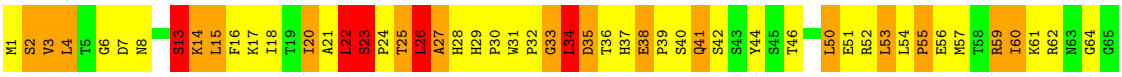


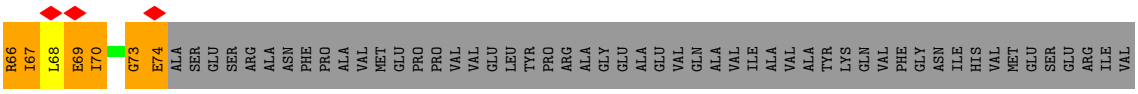


• Molecule 5: Phycocyanin-associated rod linker protein

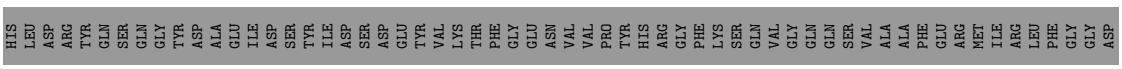
Chain N1:









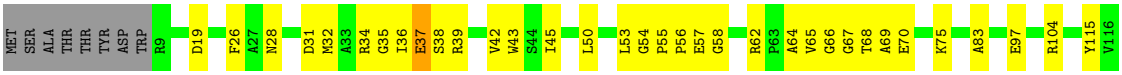




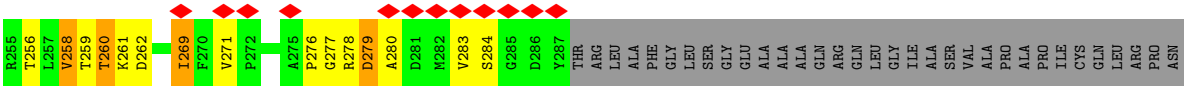
• Molecule 6: Glr2806 protein

Chain M2:





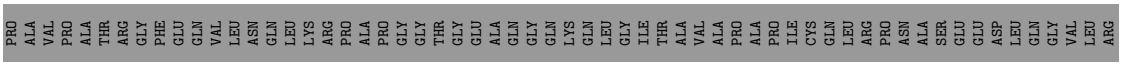




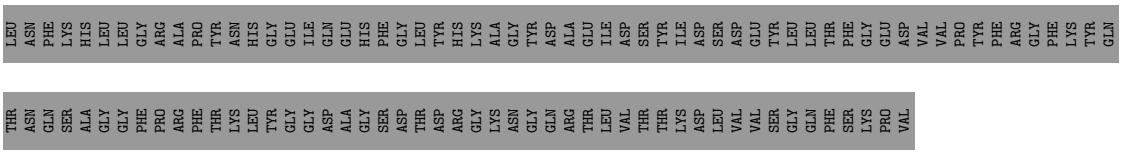








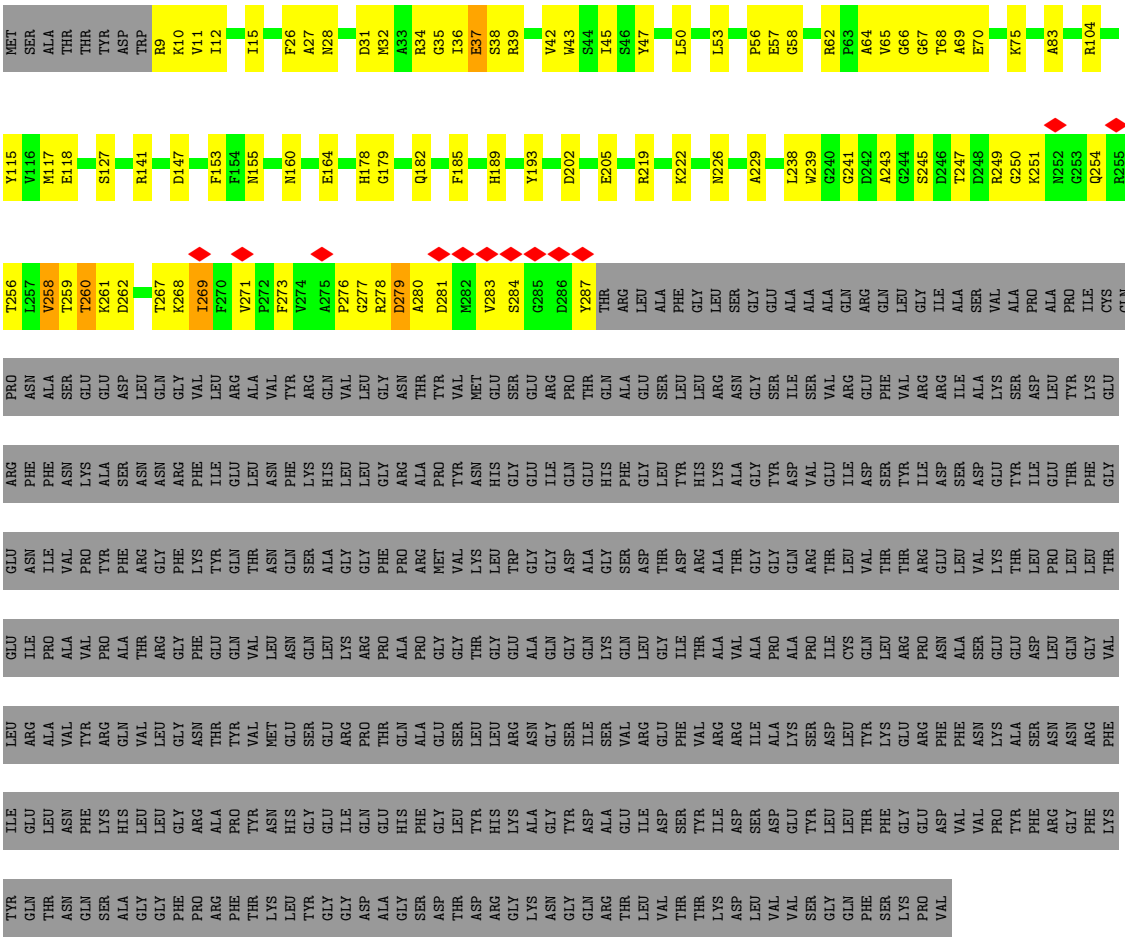




• Molecule 6: Glr2806 protein

Chain M6:

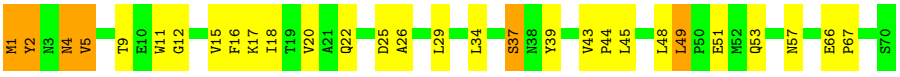




• Molecule 7: CpcD protein

Chain N2:

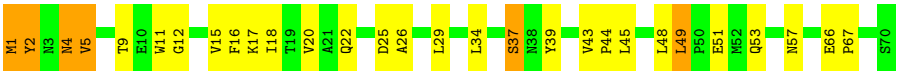




• Molecule 7: CpcD protein

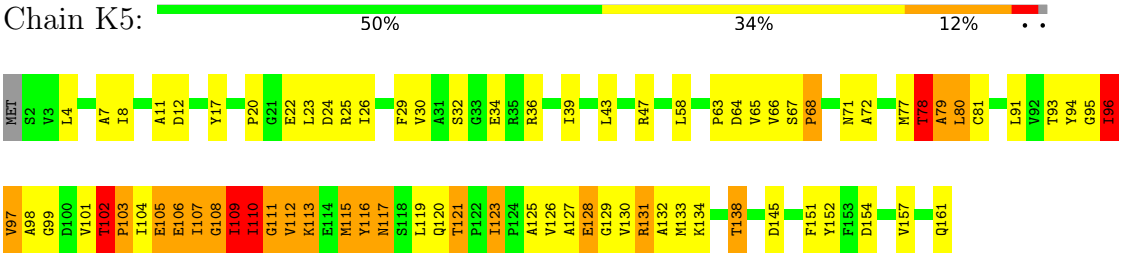
Chain N6:





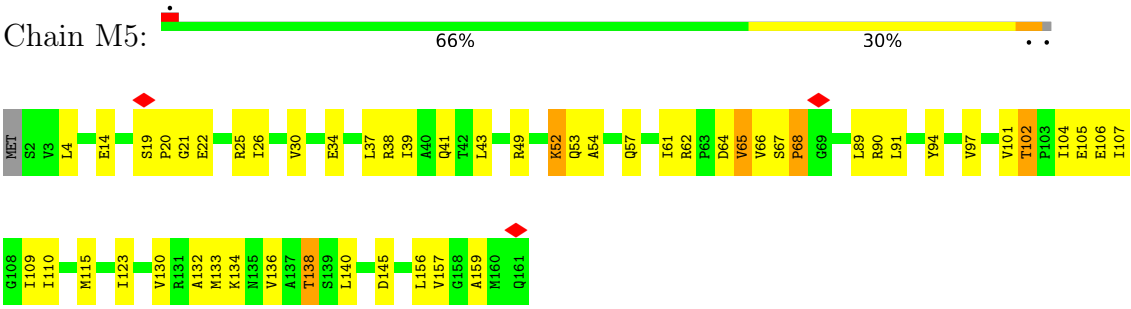
• Molecule 8: Allophycocyanin alpha subunit

Chain K5:



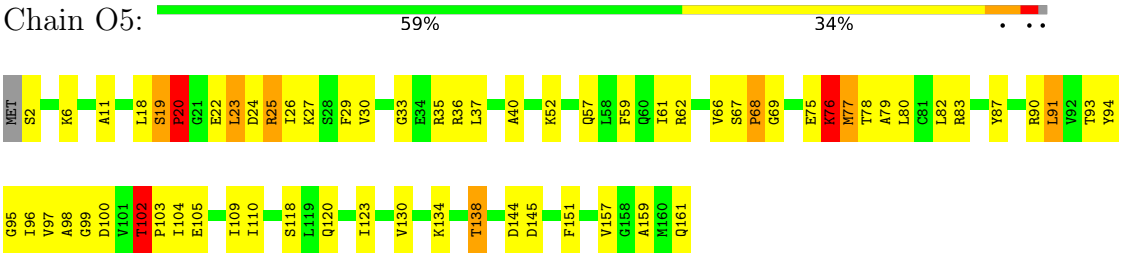
• Molecule 8: Allophycocyanin alpha subunit

Chain M5:



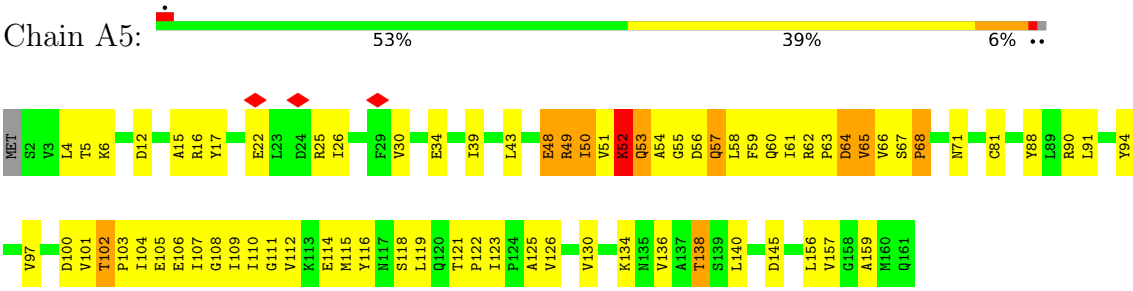
• Molecule 8: Allophycocyanin alpha subunit

Chain O5:



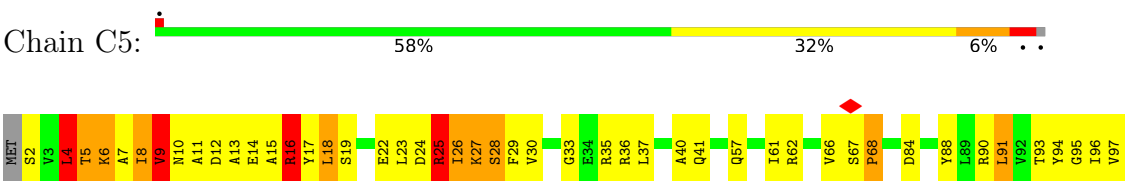
• Molecule 8: Allophycocyanin alpha subunit

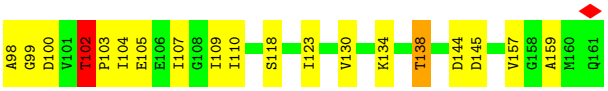
Chain A5:



• Molecule 8: Allophycocyanin alpha subunit

Chain C5:

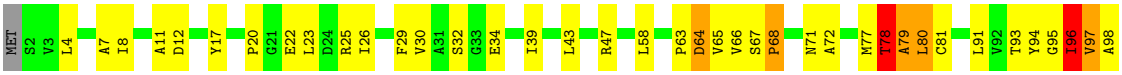


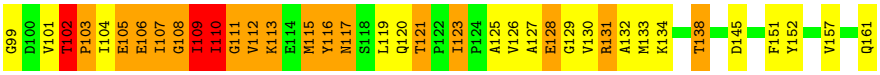


• Molecule 8: Allophycocyanin alpha subunit

Chain E5:



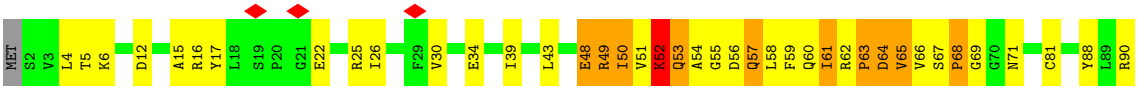




• Molecule 8: Allophycocyanin alpha subunit

Chain G5:



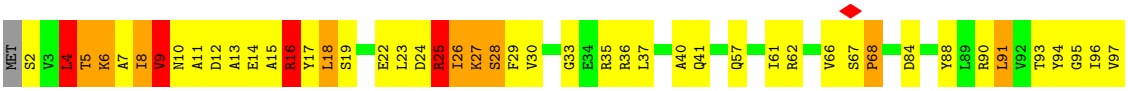


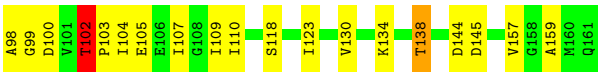


• Molecule 8: Allophycocyanin alpha subunit

Chain I5:



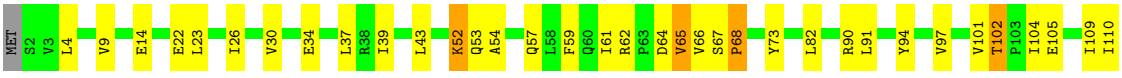


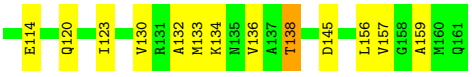


• Molecule 8: Allophycocyanin alpha subunit

Chain c5:



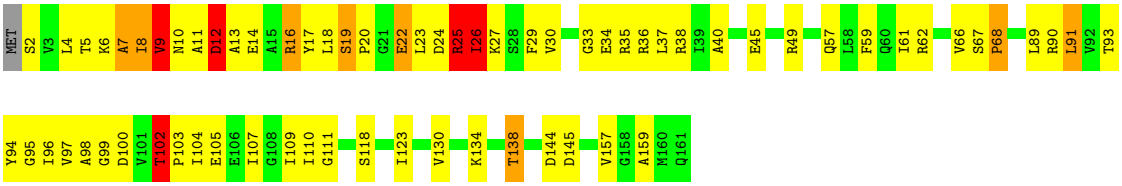




• Molecule 8: Allophycocyanin alpha subunit

Chain e5:

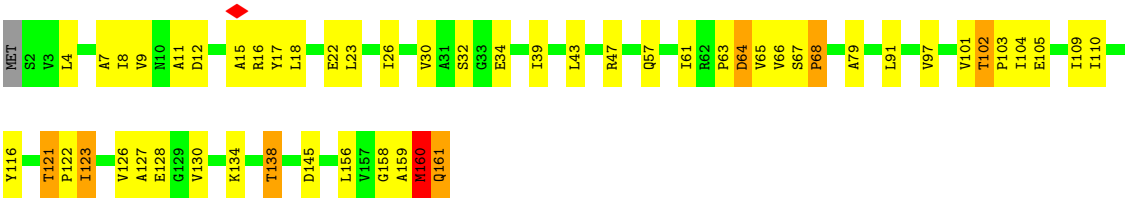




• Molecule 8: Allophycocyanin alpha subunit

Chain Q5:

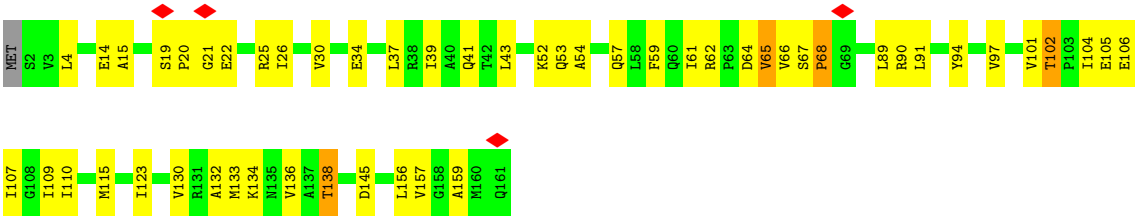




• Molecule 8: Allophycocyanin alpha subunit

Chain S5:

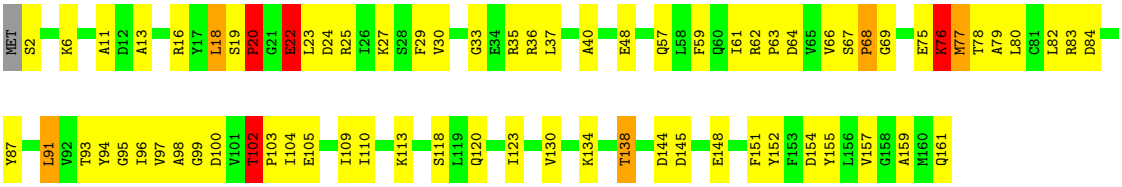




• Molecule 8: Allophycocyanin alpha subunit

Chain U5:

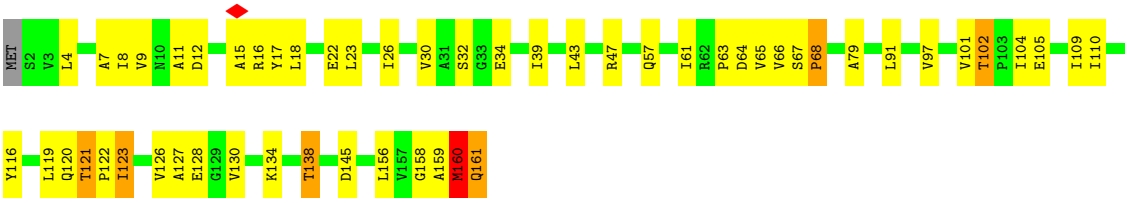




• Molecule 8: Allophycocyanin alpha subunit

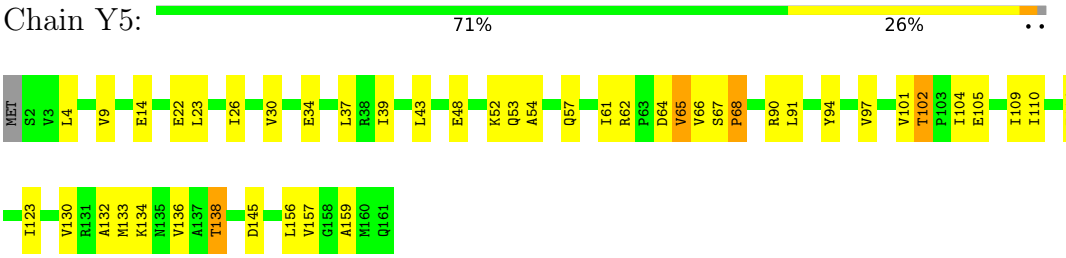
Chain W5:





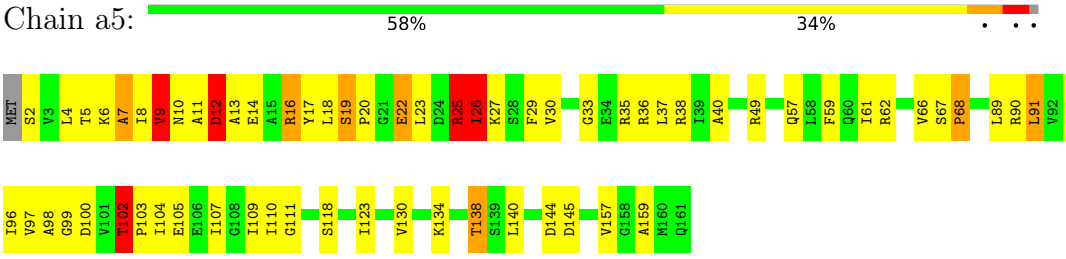
• Molecule 8: Allophycocyanin alpha subunit

Chain Y5:



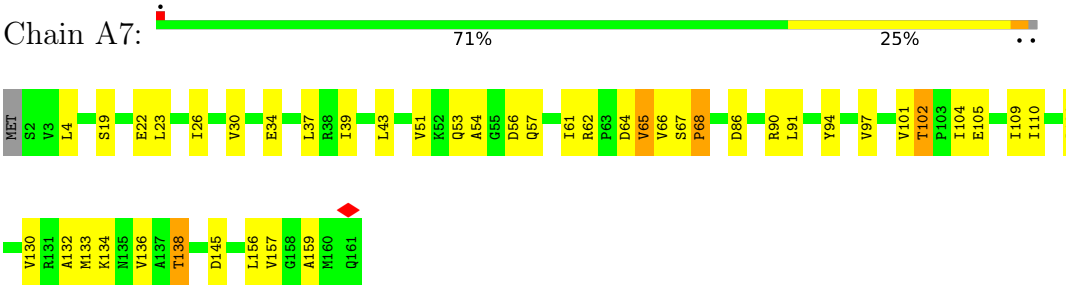
• Molecule 8: Allophycocyanin alpha subunit

Chain a5:



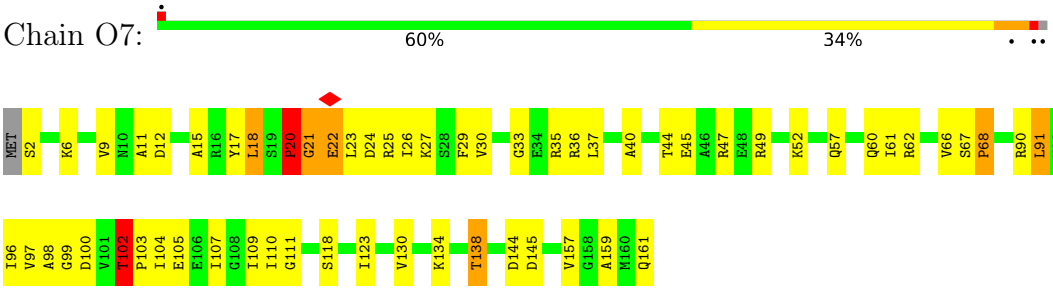
• Molecule 8: Allophycocyanin alpha subunit

Chain A7:



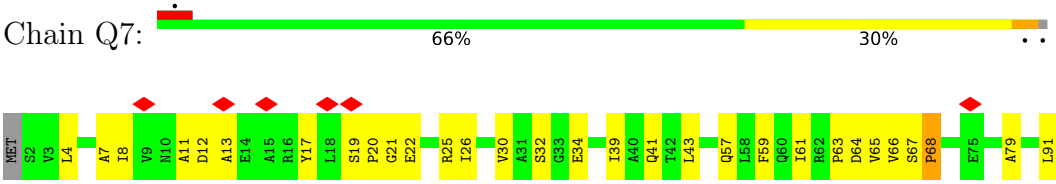
• Molecule 8: Allophycocyanin alpha subunit

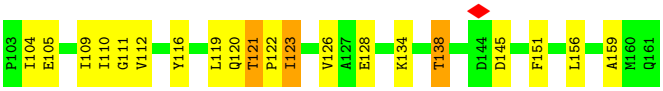
Chain O7:



• Molecule 8: Allophycocyanin alpha subunit

Chain Q7:

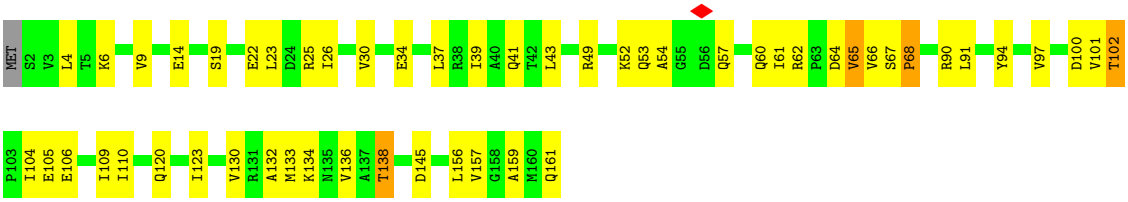




• Molecule 8: Allophycocyanin alpha subunit

Chain S7:

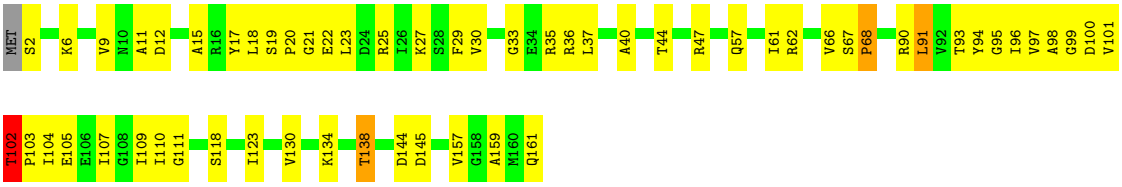




• Molecule 8: Allophycocyanin alpha subunit

Chain C7:

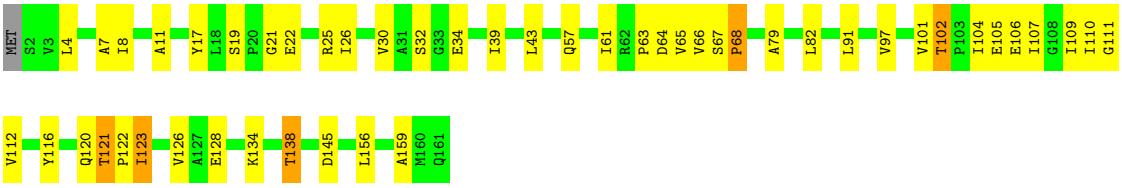




• Molecule 8: Allophycocyanin alpha subunit

Chain E7:

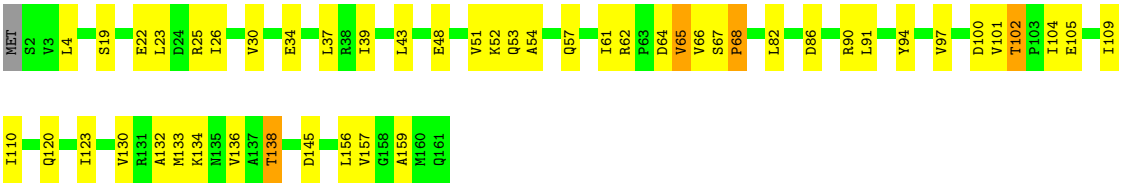




• Molecule 8: Allophycocyanin alpha subunit

Chain G7:

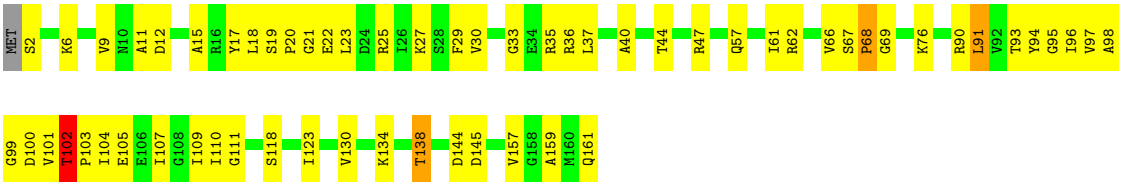




• Molecule 8: Allophycocyanin alpha subunit

Chain I7:

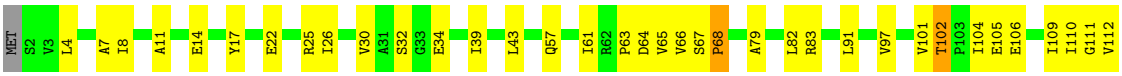


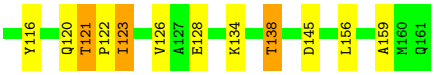


• Molecule 8: Allophycocyanin alpha subunit

Chain K7:



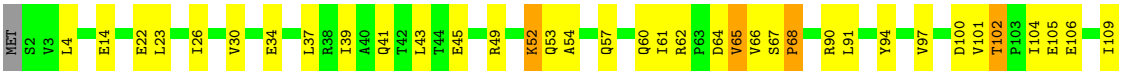




• Molecule 8: Allophycocyanin alpha subunit

Chain M7:



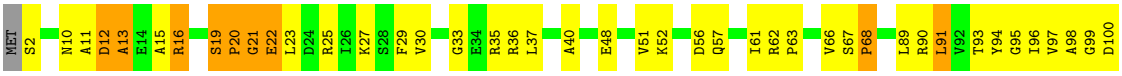


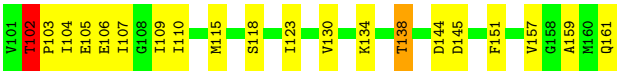


• Molecule 8: Allophycocyanin alpha subunit

Chain g7:



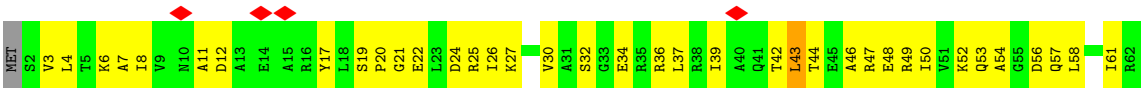




• Molecule 8: Allophycocyanin alpha subunit

Chain i7:



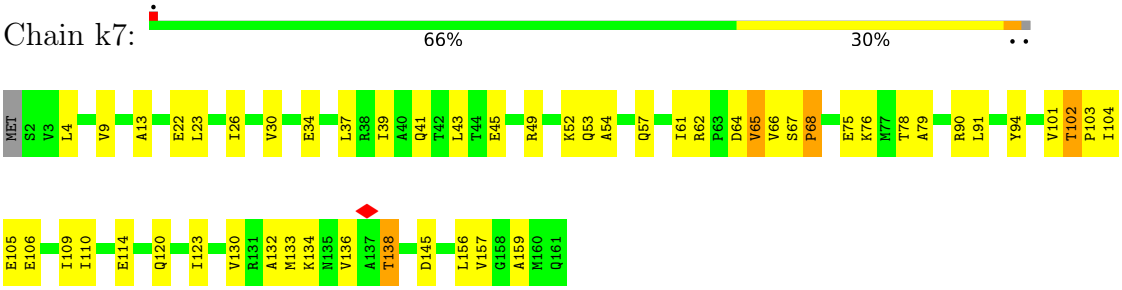






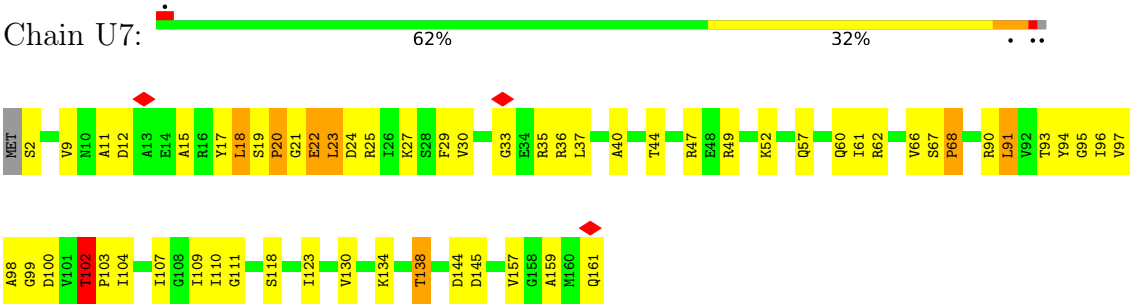
• Molecule 8: Allophycocyanin alpha subunit

Chain k7:



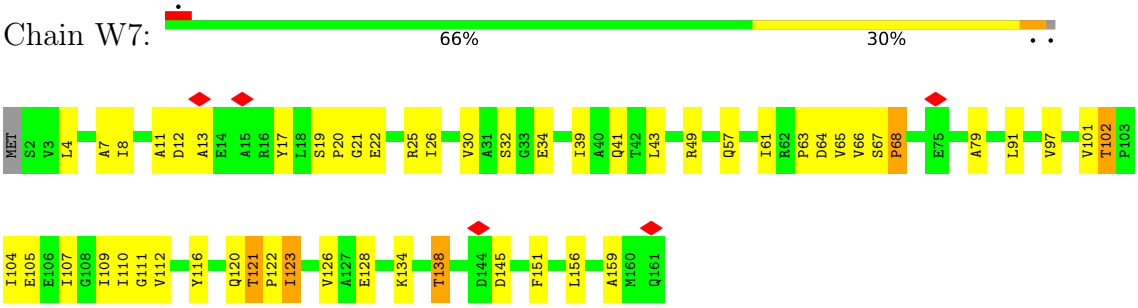
• Molecule 8: Allophycocyanin alpha subunit

Chain U7:



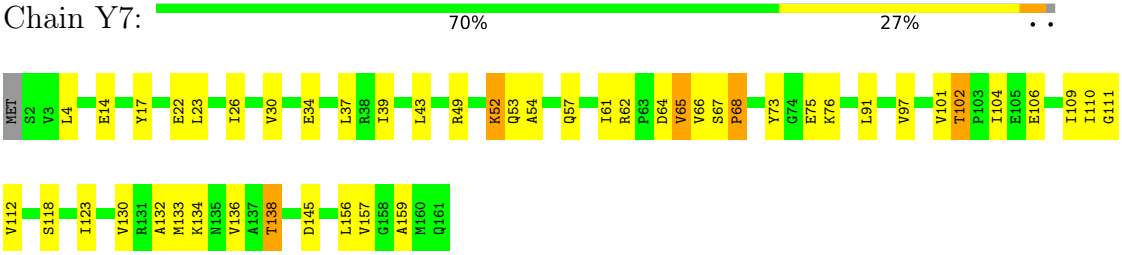
• Molecule 8: Allophycocyanin alpha subunit

Chain W7:



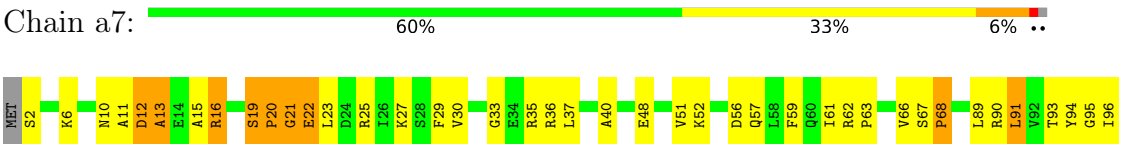
• Molecule 8: Allophycocyanin alpha subunit

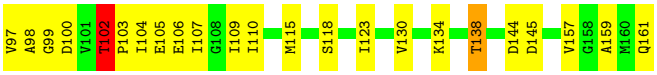
Chain Y7:



• Molecule 8: Allophycocyanin alpha subunit

Chain a7:

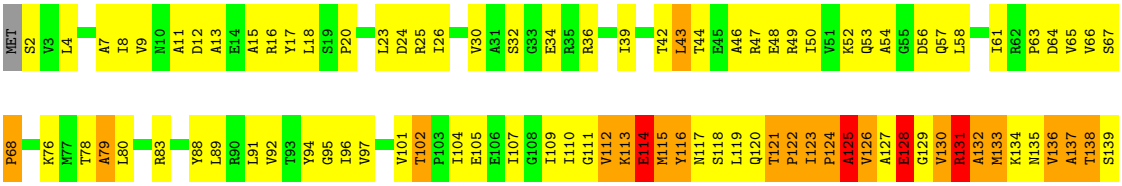




• Molecule 8: Allophycocyanin alpha subunit

Chain c7:

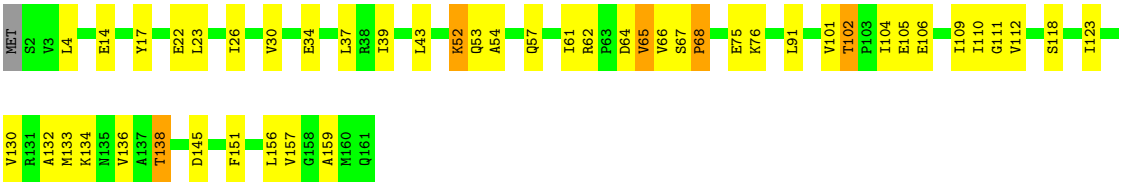




• Molecule 8: Allophycocyanin alpha subunit

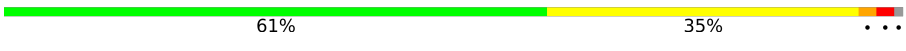
Chain e7:

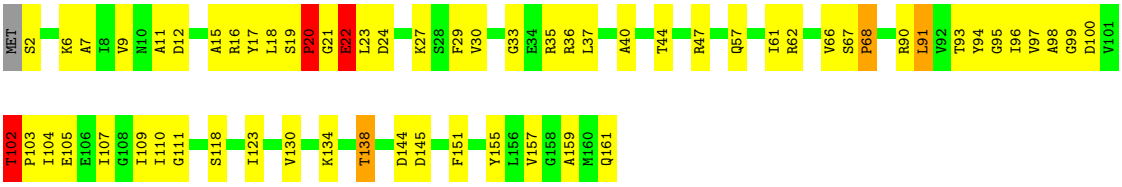




• Molecule 8: Allophycocyanin alpha subunit

Chain m7:

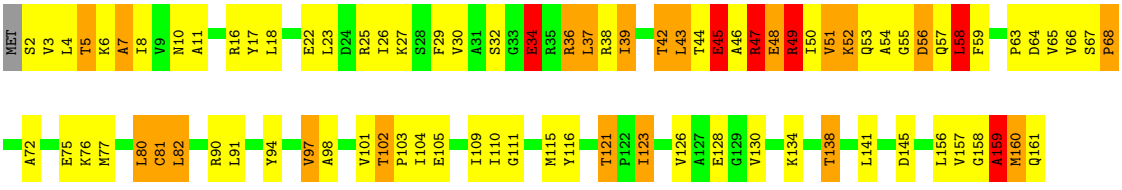




• Molecule 8: Allophycocyanin alpha subunit

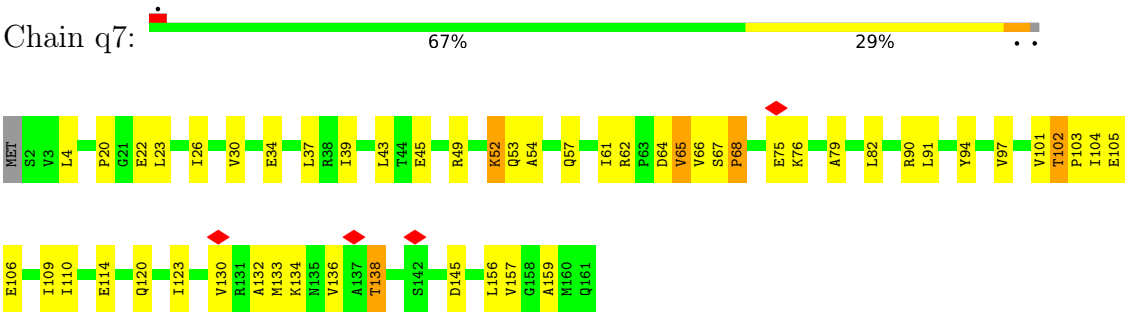
Chain o7:





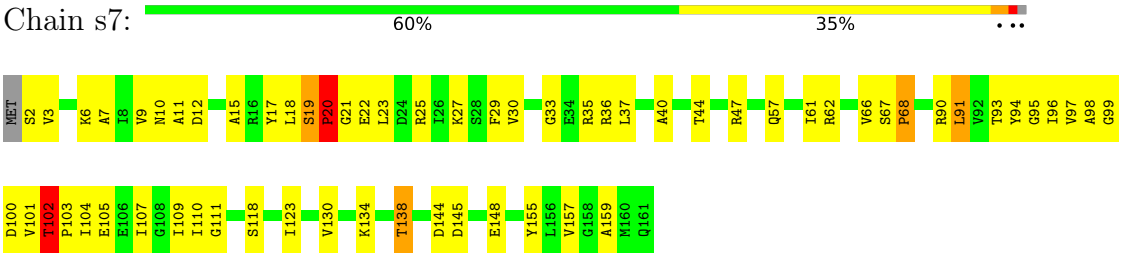
• Molecule 8: Allophycocyanin alpha subunit

Chain q7:



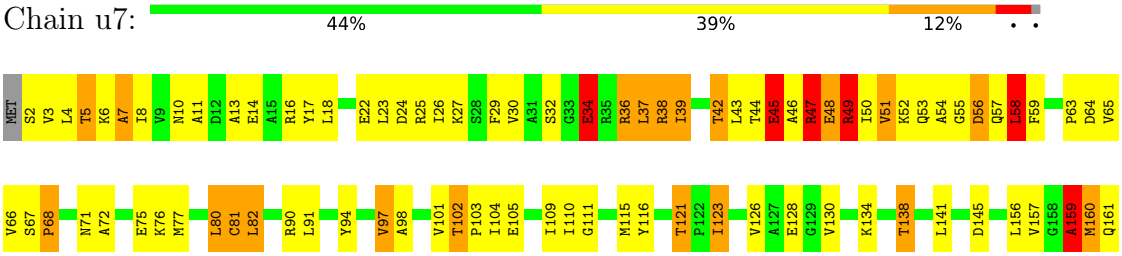
• Molecule 8: Allophycocyanin alpha subunit

Chain s7:



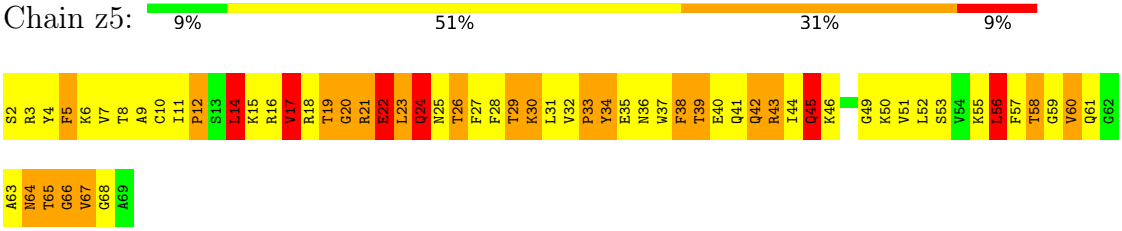
• Molecule 8: Allophycocyanin alpha subunit

Chain u7:



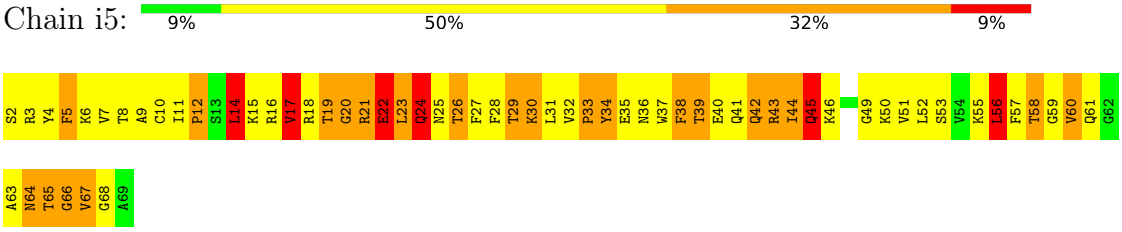
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain z5:



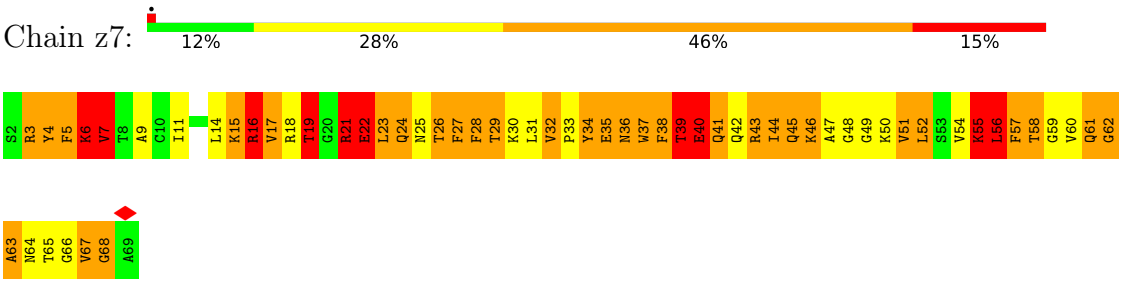
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain i5:



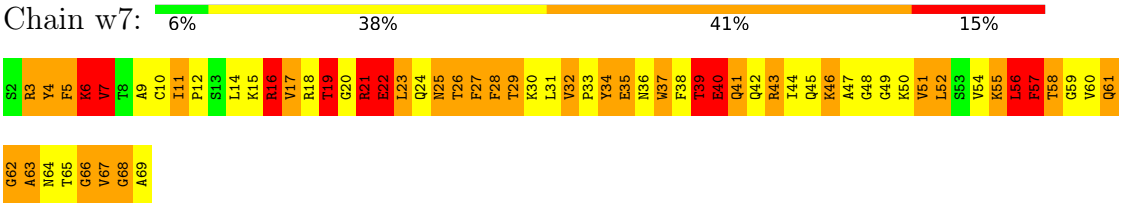
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain z7:



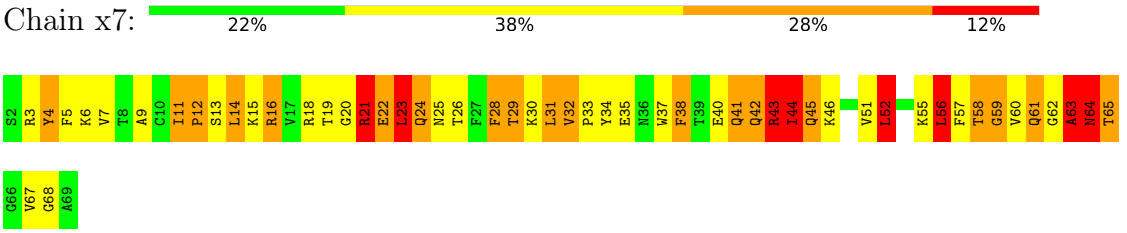
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain w7:



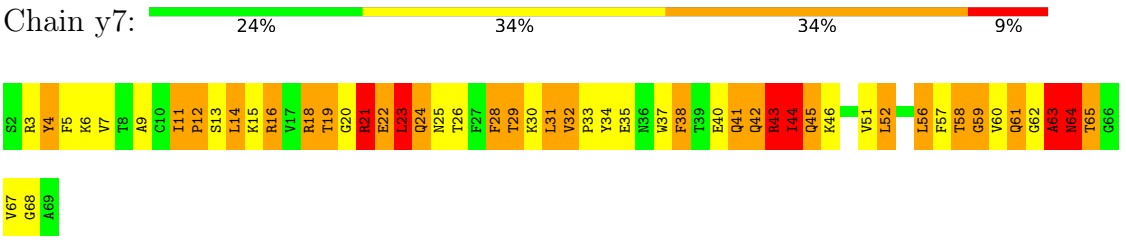
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain x7:



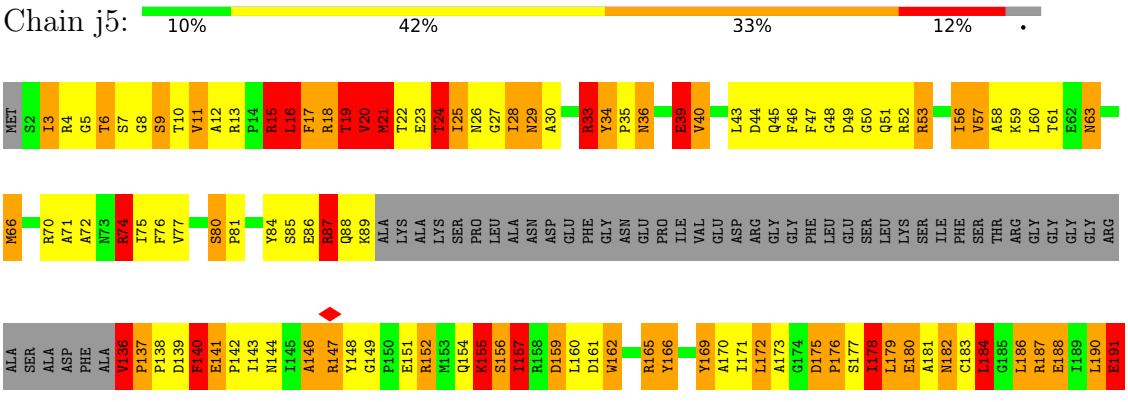
• Molecule 9: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

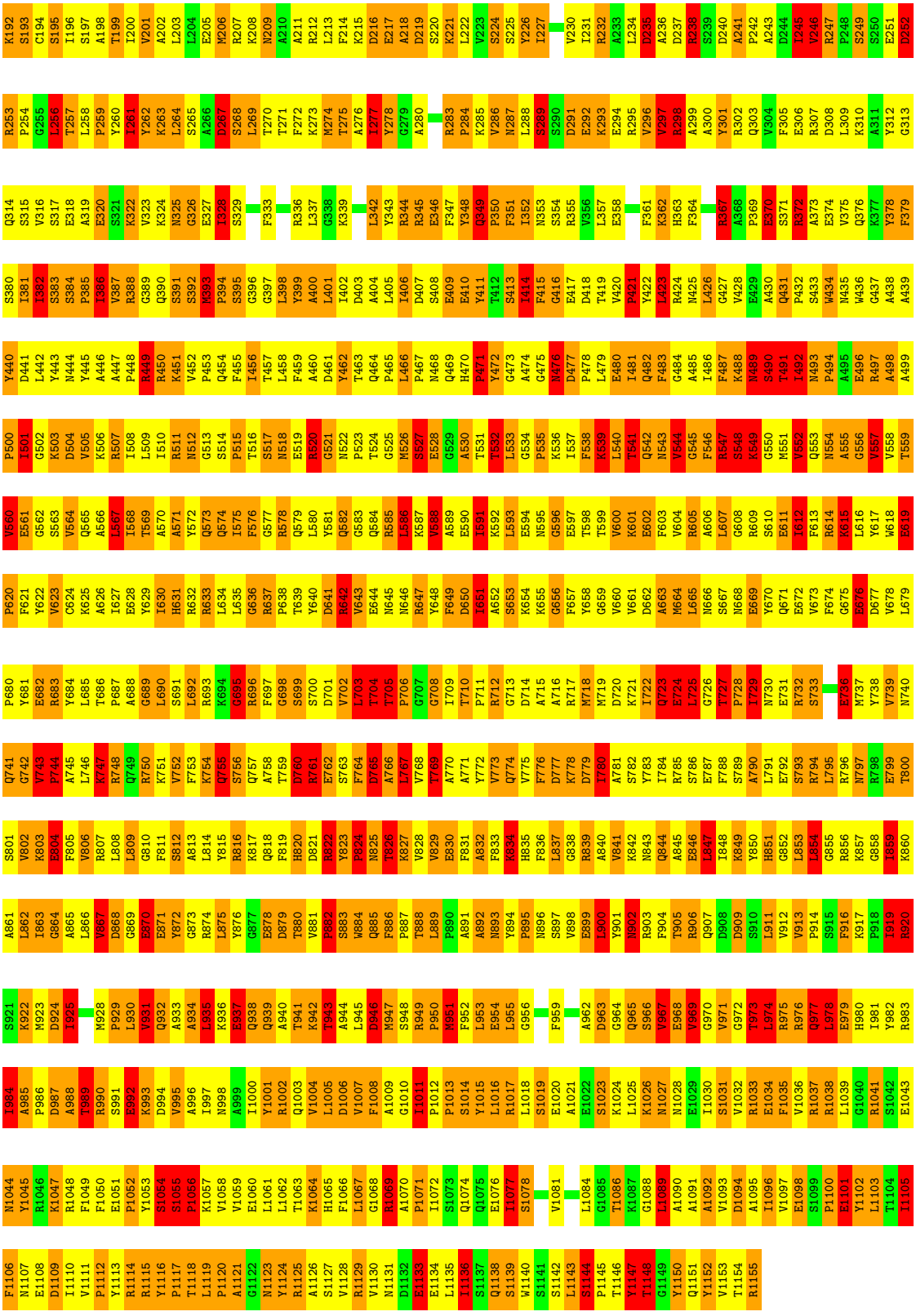
Chain y7:



• Molecule 10: Phycobiliprotein ApcE

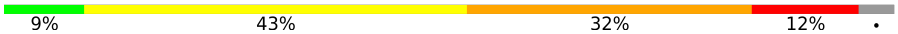
Chain j5:

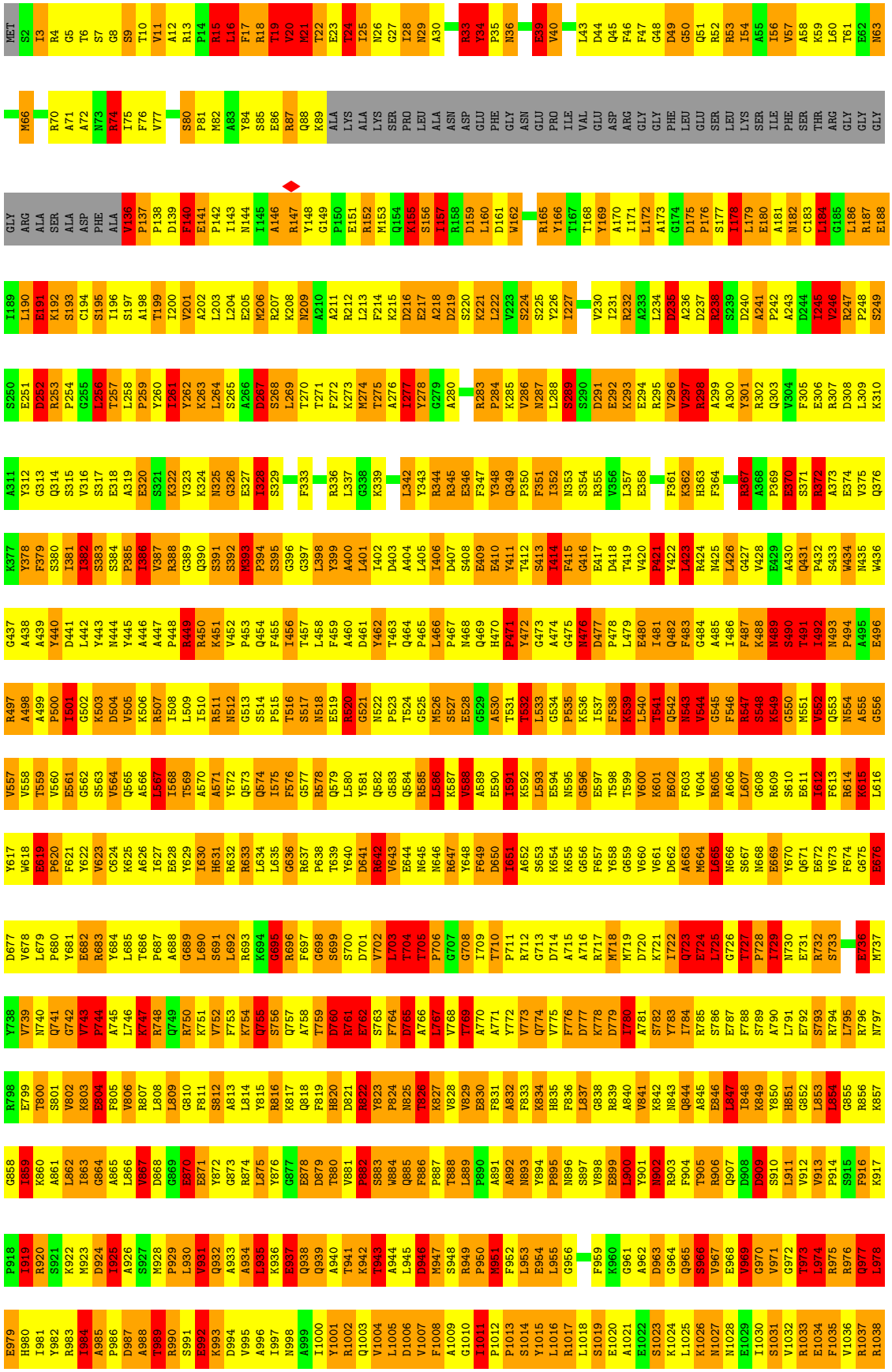


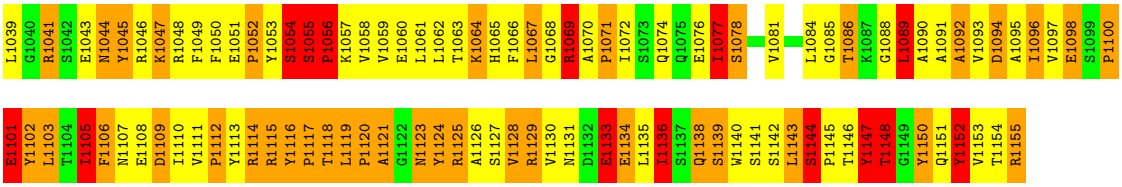


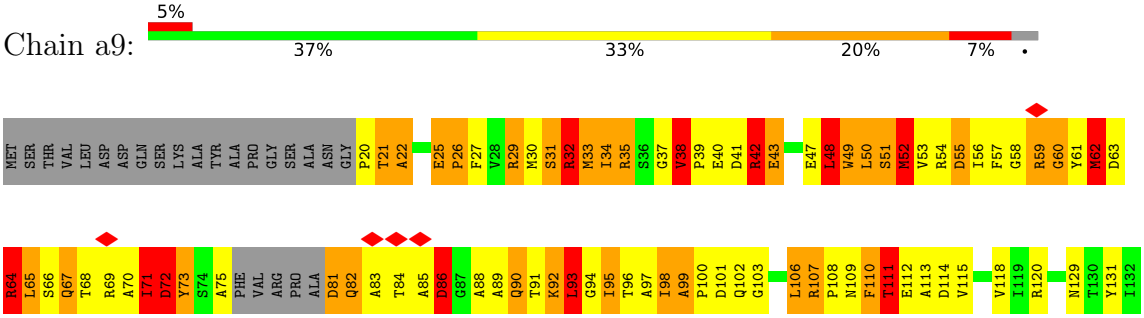
• Molecule 10: Phycobiliprotein ApcE

Chain k5:



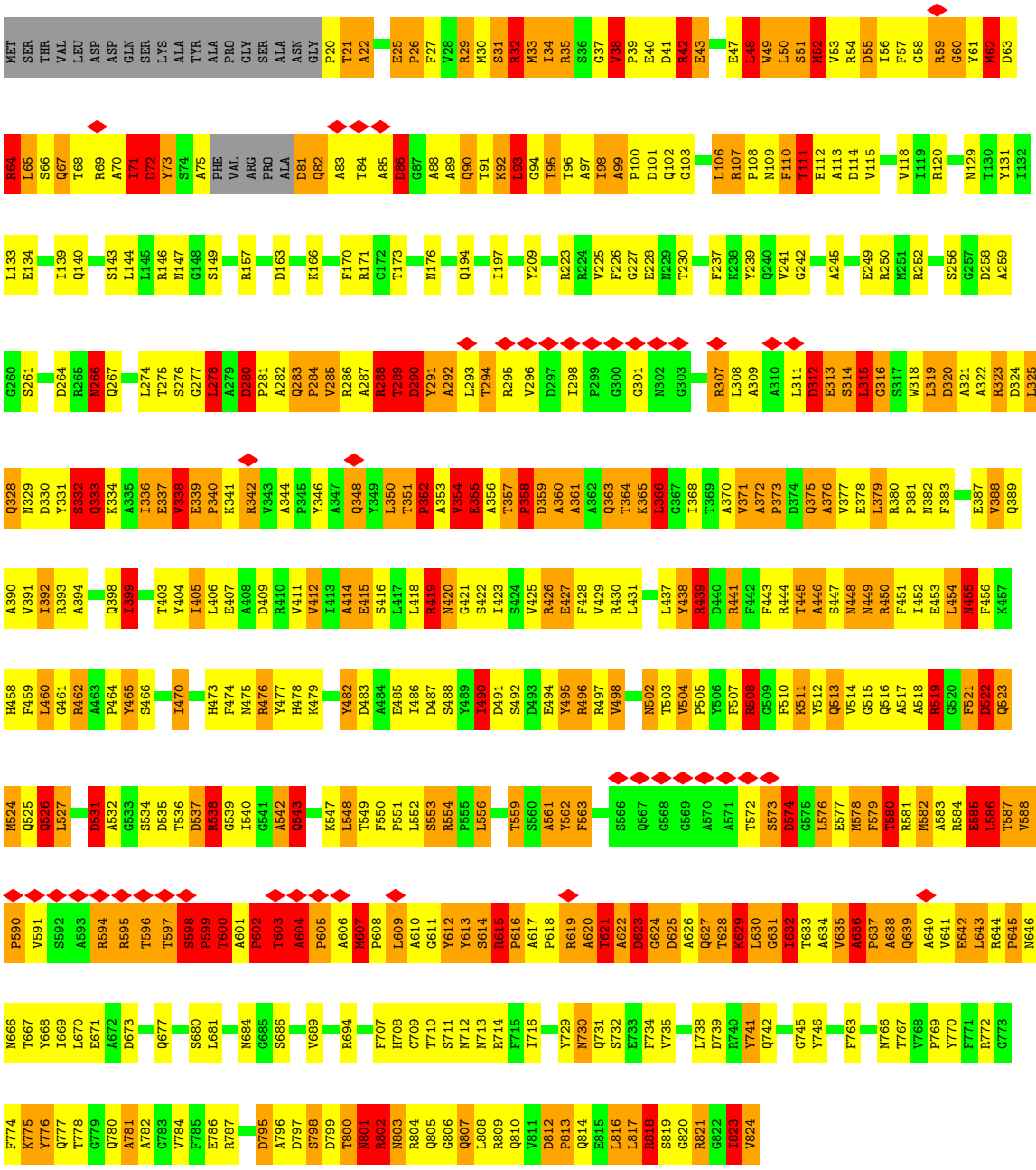






• Molecule 11: Glr1262 protein

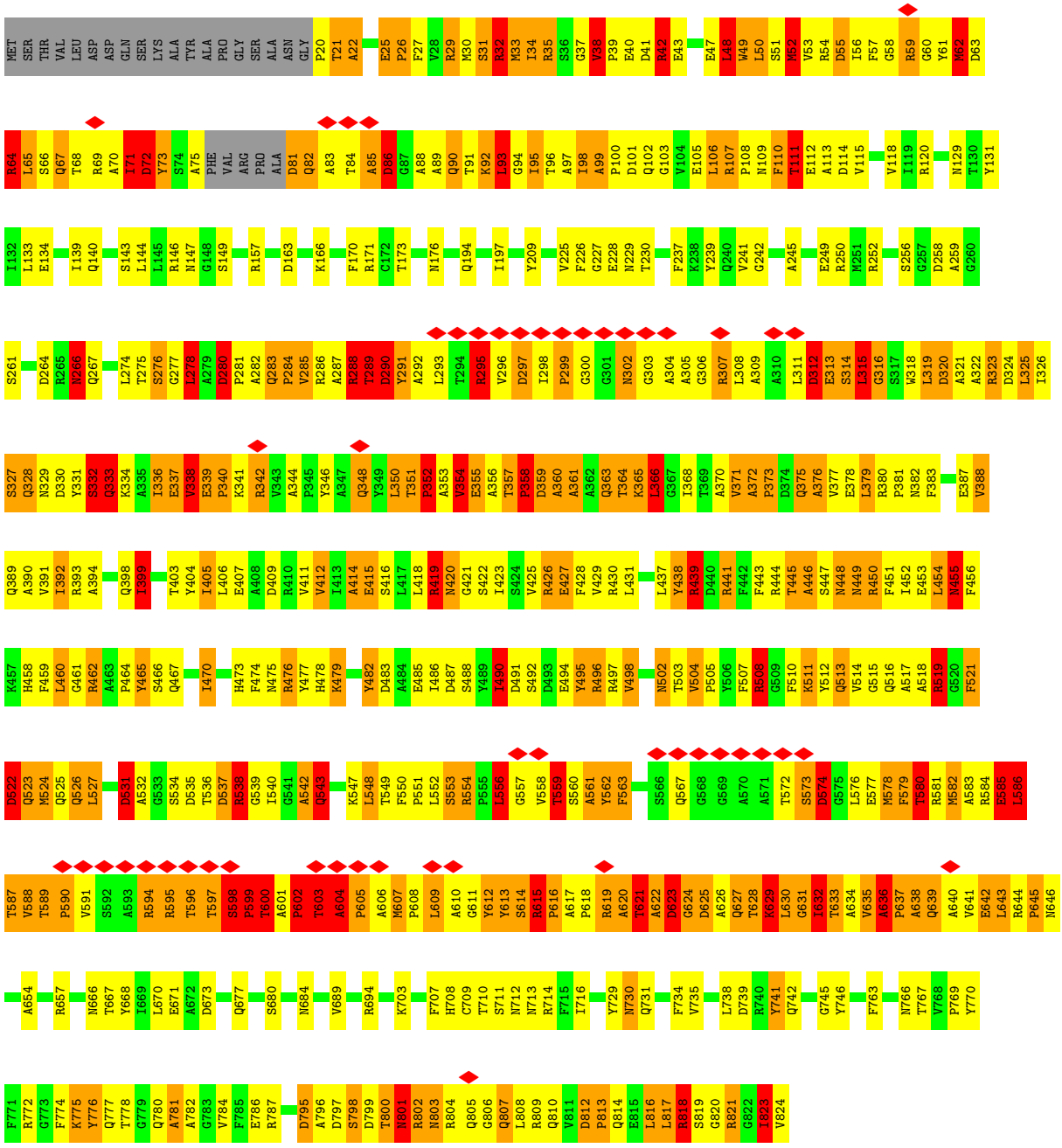
Chain a9:



• Molecule 11: Glr1262 protein

Chain aA:


6%
36%
34%
20%
7%


MET SER THR VAL LEU ASP ASP GLN SER LYS ALA TYR ALA PRO GLY SER ALA ASN GLY P20 T21 A22 E25 P26 F27 Y28 R29 M30 S31 R32 M33 I34 R35 S36 G37 V38 P39 E40 D41 R42 E43 E47 L48 W49 L50 S51 M52 V53 R54 D55 I56 F57 G58 R59 G60 Y61 M62 D63
R64 L65 S66 Q67 T68 R69 A70 I71 D72 Y73 S74 A75 PHE VAL ARG PRO ALA D81 Q82 A83 T84 A85 D86 G87 A88 A89 Q90 T91 K92 L93 G94 I95 T96 A97 I98 A99 P100 D101 Q102 G103 V104 E105 L106 R107 P108 N109 F110 T111 E112 A113 D114 V115 V118 I119 R120 N129 T130 Y131
I132 L133 E134 I139 Q140 S143 L144 L145 R146 N147 G148 S149 R157 D163 K166 F170 R171 C172 T173 N176 Q194 I197 Y209 V225 F226 G227 E228 N229 T230 F237 K238 Y239 Q240 V241 G242 A245 E249 R250 M251 R252 S256 G257 D258 A259 G260
S261 D264 R265 N266 Q267 L274 T275 S276 G277 L278 A279 D280 P281 A282 Q283 P284 V285 R286 A287 R288 T289 D290 Y291 A292 L293 T294 R295 V296 D297 I298 P299 G300 G301 N302 G303 A304 A305 G306 R307 L308 A309 A310 L311 D312 E313 S314 L315 G316 S317 W318 L319 D320 A321 A322 R323 D324 L325 I326
S327 Q328 N329 D330 Y331 S332 Q333 K334 A335 I336 E337 V338 E339 P340 K341 R342 V343 A344 P345 Y346 A347 Q348 Y349 L350 T351 P352 A353 V354 E355 A356 T357 P358 D359 A360 A361 A362 Q363 T364 K365 L366 G367 I368 T369 A370 V371 A372 P373 D374 Q375 A376 V377 E378 L379 R380 P381 N382 F383 E387 V388
Q389 A390 V391 I392 R393 A394 Q398 I399 T403 Y404 I405 L406 E407 A408 D409 R410 V411 V412 I413 A414 E415 S416 L417 L418 R419 N420 G421 S422 I423 S424 V425 R426 E427 F428 V429 R430 L431 L437 Y438 R439 D440 R441 F442 F443 R444 T445 A446 S447 N448 N449 R450 F451 I452 E453 L454 N455 F456
K457 H458 F459 L460 G461 R462 A463 P464 Y465 S466 Q467 I470 H473 F474 N475 R476 Y477 H478 K479 Y482 D483 A484 E485 I486 D487 S488 Y489 I490 D491 S492 D493 E494 Y495 R496 R497 V498 N502 T503 V504 P505 Y506 F507 R508 G509 F510 K511 Y512 Q513 V514 G515 Q516 A517 A518 R519 G520 F521
D522 Q523 M524 Q525 Q526 L527 D531 A532 G533 S534 D535 T536 D537 R538 G539 I540 G541 A542 Q543 K547 L548 T549 F550 P551 L552 S553 R554 P555 L556 G557 V558 T559 S560 A561 Y562 F563 S566 Q567 G568 G569 A570 A571 T572 S573 D574 G575 L576 E577 M578 F579 T580 R581 M582 A583 R584 E585 L586
T587 V588 T589 P590 V591 S592 A593 R594 R595 T596 T597 S598 P599 T600 A601 P602 T603 A604 P605 A606 M607 P608 L609 A610 G611 Y612 Y613 S614 R615 P616 A617 P618 R619 A620 T621 A622 D623 G624 D625 A626 Q627 T628 K629 L630 G631 I632 T633 A634 V635 A636 P637 A638 Q639 A640 V641 E642 L643 R644 F645 N646
A654 R657 M666 T667 Y668 I669 L670 E671 A672 D673 Q677 S680 N684 V689 R694 K703 F707 H708 C709 T710 S711 N712 N713 R714 F715 I716 Y729 N730 Q731 F734 V735 L738 D739 R740 Y741 Q742 G745 Y746 F763 N766 T767 V768 P769 Y770
F771 R772 G773 F774 K775 Y776 Q777 T778 G779 Q780 A781 A782 G783 V784 F785 E786 R787 D795 A796 D797 S798 D799 T800 N801 R802 N803 R804 Q805 G806 Q807 L808 R809 Q810 V811 D812 P813 Q814 E815 L816 L817 R818 S819 G820 R821 G822 I823 V824

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	389430	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1300	Depositor
Maximum defocus (nm)	2300	Depositor
Magnification	64000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	2.900	Depositor
Minimum map value	-1.411	Depositor
Average map value	0.006	Depositor
Map value standard deviation	0.067	Depositor
Recommended contour level	0.15	Depositor
Map size (Å)	614.82404, 614.82404, 614.82404	wwPDB
Map dimensions	560, 560, 560	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.0979, 1.0979, 1.0979	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MEN, CYC

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	A	0.73	0/1218	0.94	2/1648 (0.1%)
1	B5	0.74	0/1218	0.94	2/1648 (0.1%)
1	B7	0.74	0/1218	0.94	2/1648 (0.1%)
1	D5	1.39	22/1218 (1.8%)	1.17	7/1648 (0.4%)
1	D7	0.98	4/1218 (0.3%)	1.07	9/1648 (0.5%)
1	F5	1.04	5/1218 (0.4%)	1.24	5/1648 (0.3%)
1	F7	0.90	1/1218 (0.1%)	1.19	4/1648 (0.2%)
1	H5	0.74	0/1218	0.94	2/1648 (0.1%)
1	H7	0.74	0/1218	0.94	2/1648 (0.1%)
1	J5	1.39	21/1218 (1.7%)	1.17	7/1648 (0.4%)
1	J7	0.98	4/1218 (0.3%)	1.07	9/1648 (0.5%)
1	L5	1.05	5/1218 (0.4%)	1.24	5/1648 (0.3%)
1	L7	0.90	1/1218 (0.1%)	1.19	4/1648 (0.2%)
1	N5	0.74	0/1218	0.93	2/1648 (0.1%)
1	N7	0.74	0/1218	0.94	2/1648 (0.1%)
1	P5	0.75	0/1218	0.93	1/1648 (0.1%)
1	P7	0.74	0/1218	0.93	1/1648 (0.1%)
1	R5	0.90	1/1218 (0.1%)	1.19	4/1648 (0.2%)
1	R7	0.90	1/1218 (0.1%)	1.19	4/1648 (0.2%)
1	T5	0.74	0/1218	0.93	2/1648 (0.1%)
1	T7	0.74	0/1218	0.93	2/1648 (0.1%)
1	V5	0.75	0/1218	0.93	1/1648 (0.1%)
1	V7	0.75	0/1218	0.93	1/1648 (0.1%)
1	X5	0.91	1/1218 (0.1%)	1.19	4/1648 (0.2%)
1	X7	0.90	1/1218 (0.1%)	1.19	4/1648 (0.2%)
1	Z	0.73	0/1218	0.94	2/1648 (0.1%)
1	Z5	0.73	0/1218	0.94	2/1648 (0.1%)
1	Z7	0.74	0/1218	0.94	2/1648 (0.1%)
1	b5	0.90	1/1218 (0.1%)	1.19	4/1648 (0.2%)
1	b7	1.51	29/1218 (2.4%)	1.13	3/1648 (0.2%)
1	d5	0.74	0/1218	0.94	2/1648 (0.1%)
1	d7	0.90	1/1218 (0.1%)	1.19	4/1648 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	f5	0.90	1/1218 (0.1%)	1.19	4/1648 (0.2%)
1	f7	0.74	0/1218	0.93	2/1648 (0.1%)
1	h7	1.51	29/1218 (2.4%)	1.13	3/1648 (0.2%)
1	j7	0.90	1/1218 (0.1%)	1.19	4/1648 (0.2%)
1	l7	0.74	0/1218	0.94	2/1648 (0.1%)
1	n7	0.74	0/1218	0.93	1/1648 (0.1%)
1	p7	0.90	1/1218 (0.1%)	1.19	4/1648 (0.2%)
1	r7	0.74	0/1218	0.94	2/1648 (0.1%)
1	t7	0.74	0/1218	0.92	1/1648 (0.1%)
1	v7	0.90	1/1218 (0.1%)	1.19	4/1648 (0.2%)
2	A1	0.72	0/1265	0.86	0/1713
2	A2	0.72	0/1265	0.86	0/1713
2	A3	0.72	0/1265	0.86	0/1713
2	A4	0.72	0/1265	0.86	0/1713
2	A6	0.72	0/1265	0.86	0/1713
2	A8	0.72	0/1265	0.86	0/1713
2	A9	0.72	0/1265	0.86	0/1713
2	AA	0.72	0/1265	0.86	0/1713
2	C1	0.73	0/1265	0.87	0/1713
2	C2	0.73	0/1265	0.86	0/1713
2	C3	0.73	0/1265	0.86	0/1713
2	C4	0.73	0/1265	0.86	0/1713
2	C6	0.73	0/1265	0.87	0/1713
2	C8	0.73	0/1265	0.86	0/1713
2	C9	0.73	0/1265	0.86	0/1713
2	CA	0.73	0/1265	0.86	0/1713
2	E1	0.73	0/1265	0.86	0/1713
2	E2	0.73	0/1265	0.86	0/1713
2	E3	0.73	0/1265	0.86	0/1713
2	E4	0.73	0/1265	0.86	0/1713
2	E6	0.73	0/1265	0.86	0/1713
2	E8	0.73	0/1265	0.86	0/1713
2	E9	0.73	0/1265	0.86	0/1713
2	EA	0.73	0/1265	0.86	0/1713
2	G1	0.73	0/1265	0.86	0/1713
2	G2	0.73	0/1265	0.86	0/1713
2	G3	0.73	0/1265	0.86	0/1713
2	G4	0.74	0/1265	0.86	0/1713
2	G6	0.73	0/1265	0.86	0/1713
2	G8	0.74	0/1265	0.86	0/1713
2	G9	0.73	0/1265	0.86	0/1713
2	GA	0.73	0/1265	0.86	0/1713
2	I1	0.72	0/1265	0.87	0/1713

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
2	I2	0.73	0/1265	0.86	0/1713
2	I3	0.73	0/1265	0.87	0/1713
2	I4	0.73	0/1265	0.86	0/1713
2	I6	0.73	0/1265	0.86	0/1713
2	I8	0.73	0/1265	0.86	0/1713
2	I9	0.65	0/1265	0.84	0/1713
2	IA	0.65	0/1265	0.84	0/1713
2	K1	0.73	0/1265	0.86	0/1713
2	K2	0.73	0/1265	0.86	0/1713
2	K3	0.73	0/1265	0.86	0/1713
2	K4	0.73	0/1265	0.86	0/1713
2	K6	0.73	0/1265	0.86	0/1713
2	K8	0.73	0/1265	0.86	0/1713
2	K9	0.92	1/1265 (0.1%)	1.03	6/1713 (0.4%)
2	KA	0.92	1/1265 (0.1%)	1.03	6/1713 (0.4%)
2	N4	0.72	0/1265	0.86	0/1713
2	N8	0.72	0/1265	0.88	2/1713 (0.1%)
2	O1	0.72	0/1265	0.86	0/1713
2	O3	0.72	0/1265	0.86	0/1713
2	O9	0.72	0/1265	0.86	0/1713
2	OA	0.72	0/1265	0.86	0/1713
2	P4	0.73	0/1265	0.87	0/1713
2	P8	0.73	0/1265	0.87	0/1713
2	Q1	0.73	0/1265	0.87	0/1713
2	Q3	0.73	0/1265	0.87	0/1713
2	Q9	0.73	0/1265	0.87	0/1713
2	QA	0.73	0/1265	0.88	0/1713
2	R4	0.73	0/1265	0.86	0/1713
2	R8	0.73	0/1265	0.86	0/1713
2	S1	0.73	0/1265	0.86	0/1713
2	S3	0.73	0/1265	0.86	0/1713
2	S9	0.73	0/1265	0.86	0/1713
2	SA	0.73	0/1265	0.86	0/1713
2	T4	0.73	0/1265	0.86	0/1713
2	T8	0.73	0/1265	0.86	0/1713
2	U1	0.73	0/1265	0.90	3/1713 (0.2%)
2	U3	0.73	0/1265	1.09	2/1713 (0.1%)
2	U9	0.73	0/1265	0.86	0/1713
2	UA	0.73	0/1265	0.86	0/1713
2	V4	0.73	0/1265	0.86	0/1713
2	V8	0.73	0/1265	0.86	0/1713
2	W1	0.73	0/1265	0.86	0/1713
2	W3	0.73	0/1265	0.86	0/1713

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
2	W9	0.72	0/1265	0.86	0/1713
2	WA	0.73	0/1265	0.86	0/1713
2	X4	0.73	0/1265	0.86	0/1713
2	X8	0.73	0/1265	0.86	0/1713
2	Y1	0.73	0/1265	0.86	0/1713
2	Y3	0.73	0/1265	0.86	0/1713
2	Y9	0.73	0/1265	0.86	0/1713
2	YA	0.73	0/1265	0.86	0/1713
3	B1	0.79	0/1307	0.90	2/1768 (0.1%)
3	B2	0.82	1/1307 (0.1%)	0.92	2/1768 (0.1%)
3	B3	0.79	0/1307	0.90	2/1768 (0.1%)
3	B4	0.81	0/1307	0.94	3/1768 (0.2%)
3	B6	0.82	1/1307 (0.1%)	0.92	2/1768 (0.1%)
3	B8	0.80	0/1307	0.92	2/1768 (0.1%)
3	B9	0.79	0/1307	0.91	2/1768 (0.1%)
3	BA	0.79	0/1307	0.91	2/1768 (0.1%)
3	D1	0.78	0/1307	0.90	2/1768 (0.1%)
3	D2	0.78	0/1307	0.90	2/1768 (0.1%)
3	D3	0.78	0/1307	0.90	2/1768 (0.1%)
3	D4	0.79	0/1307	0.90	2/1768 (0.1%)
3	D6	0.78	0/1307	0.90	2/1768 (0.1%)
3	D8	0.79	0/1307	0.90	2/1768 (0.1%)
3	D9	0.79	0/1307	0.90	2/1768 (0.1%)
3	DA	0.79	0/1307	0.90	2/1768 (0.1%)
3	F1	0.79	0/1307	0.90	2/1768 (0.1%)
3	F2	0.79	0/1307	0.90	2/1768 (0.1%)
3	F3	0.79	0/1307	0.90	2/1768 (0.1%)
3	F4	0.78	0/1307	0.96	3/1768 (0.2%)
3	F6	0.79	0/1307	0.90	2/1768 (0.1%)
3	F8	0.79	0/1307	0.95	4/1768 (0.2%)
3	F9	1.03	4/1307 (0.3%)	1.30	9/1768 (0.5%)
3	FA	1.04	3/1307 (0.2%)	1.13	10/1768 (0.6%)
3	H1	0.78	0/1307	0.90	2/1768 (0.1%)
3	H2	0.98	4/1307 (0.3%)	1.05	6/1768 (0.3%)
3	H3	0.78	0/1307	0.90	2/1768 (0.1%)
3	H4	0.79	0/1307	0.90	2/1768 (0.1%)
3	H6	0.98	4/1307 (0.3%)	1.05	6/1768 (0.3%)
3	H8	0.79	0/1307	0.90	2/1768 (0.1%)
3	H9	0.81	0/1307	0.91	2/1768 (0.1%)
3	HA	0.81	0/1307	0.91	2/1768 (0.1%)
3	J1	0.78	0/1307	0.90	2/1768 (0.1%)
3	J2	0.78	0/1307	0.90	2/1768 (0.1%)
3	J3	0.78	0/1307	0.90	2/1768 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
3	J4	0.78	0/1307	0.90	2/1768 (0.1%)
3	J6	0.78	0/1307	0.90	2/1768 (0.1%)
3	J8	0.78	0/1307	0.90	2/1768 (0.1%)
3	J9	0.82	1/1307 (0.1%)	0.93	4/1768 (0.2%)
3	JA	0.82	1/1307 (0.1%)	0.93	4/1768 (0.2%)
3	L1	0.78	0/1307	1.08	5/1768 (0.3%)
3	L2	0.80	0/1307	0.97	5/1768 (0.3%)
3	L3	0.78	0/1307	0.90	2/1768 (0.1%)
3	L4	0.78	0/1307	1.12	5/1768 (0.3%)
3	L6	0.79	0/1307	0.91	2/1768 (0.1%)
3	L8	0.78	0/1307	0.91	2/1768 (0.1%)
3	L9	1.39	24/1307 (1.8%)	1.11	11/1768 (0.6%)
3	LA	1.39	24/1307 (1.8%)	1.11	11/1768 (0.6%)
3	O4	0.79	0/1307	0.90	2/1768 (0.1%)
3	O8	0.79	0/1307	1.08	4/1768 (0.2%)
3	P1	0.79	0/1307	0.90	2/1768 (0.1%)
3	P3	0.79	0/1307	0.90	2/1768 (0.1%)
3	P9	0.79	0/1307	0.90	2/1768 (0.1%)
3	PA	0.79	0/1307	0.90	2/1768 (0.1%)
3	Q4	0.84	0/1307	1.12	4/1768 (0.2%)
3	Q8	0.82	0/1307	1.03	4/1768 (0.2%)
3	R1	0.77	0/1307	0.90	2/1768 (0.1%)
3	R3	0.78	0/1307	0.91	2/1768 (0.1%)
3	R9	0.79	0/1307	0.90	2/1768 (0.1%)
3	RA	0.79	0/1307	0.90	2/1768 (0.1%)
3	S4	0.79	0/1307	0.90	2/1768 (0.1%)
3	S8	0.79	0/1307	0.90	2/1768 (0.1%)
3	T1	0.78	0/1307	0.90	2/1768 (0.1%)
3	T3	0.78	0/1307	0.90	2/1768 (0.1%)
3	T9	0.78	0/1307	0.90	2/1768 (0.1%)
3	TA	0.78	0/1307	0.90	2/1768 (0.1%)
3	U4	0.79	0/1307	0.90	2/1768 (0.1%)
3	U8	0.79	0/1307	0.90	2/1768 (0.1%)
3	V1	0.79	0/1307	0.90	2/1768 (0.1%)
3	V3	0.79	0/1307	0.90	2/1768 (0.1%)
3	V9	0.79	0/1307	0.91	2/1768 (0.1%)
3	VA	0.79	0/1307	0.91	2/1768 (0.1%)
3	W4	0.78	0/1307	0.90	2/1768 (0.1%)
3	W8	0.78	0/1307	0.90	2/1768 (0.1%)
3	X1	0.78	0/1307	0.90	2/1768 (0.1%)
3	X3	0.78	0/1307	0.90	2/1768 (0.1%)
3	X9	0.78	0/1307	0.90	2/1768 (0.1%)
3	XA	0.78	0/1307	0.90	2/1768 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
3	Y4	0.82	0/1307	1.14	5/1768 (0.3%)
3	Y8	0.81	0/1307	0.99	2/1768 (0.1%)
3	Z1	0.78	0/1307	0.90	2/1768 (0.1%)
3	Z3	0.78	0/1307	0.90	2/1768 (0.1%)
3	Z9	0.79	0/1307	0.91	2/1768 (0.1%)
3	ZA	0.79	0/1307	0.91	2/1768 (0.1%)
4	M1	2.88	178/2225 (8.0%)	2.02	94/3011 (3.1%)
4	M3	2.88	178/2225 (8.0%)	2.02	94/3011 (3.1%)
4	M4	2.85	171/2225 (7.7%)	2.15	99/3011 (3.3%)
4	M8	2.85	171/2225 (7.7%)	2.41	114/3011 (3.8%)
4	M9	2.88	180/2225 (8.1%)	2.02	95/3011 (3.2%)
4	MA	2.88	178/2225 (8.0%)	2.02	95/3011 (3.2%)
5	N1	1.66	3/589 (0.5%)	1.84	13/797 (1.6%)
5	N3	1.66	3/589 (0.5%)	1.84	13/797 (1.6%)
5	N9	1.66	3/589 (0.5%)	1.84	13/797 (1.6%)
5	NA	1.66	3/589 (0.5%)	1.84	13/797 (1.6%)
5	Z4	1.66	3/589 (0.5%)	2.83	19/797 (2.4%)
5	Z8	1.64	3/589 (0.5%)	1.83	13/797 (1.6%)
6	M2	0.34	0/2237	0.74	3/3022 (0.1%)
6	M6	0.34	0/2237	0.74	3/3022 (0.1%)
7	N2	0.43	0/555	0.90	1/755 (0.1%)
7	N6	0.43	0/555	0.90	1/755 (0.1%)
8	A5	1.45	28/1239 (2.3%)	1.12	7/1676 (0.4%)
8	A7	0.73	2/1239 (0.2%)	0.99	1/1676 (0.1%)
8	C5	1.50	30/1239 (2.4%)	1.28	15/1676 (0.9%)
8	C7	0.65	1/1239 (0.1%)	1.00	4/1676 (0.2%)
8	E5	1.74	34/1239 (2.7%)	1.40	21/1676 (1.3%)
8	E7	0.78	3/1239 (0.2%)	1.12	6/1676 (0.4%)
8	G5	1.45	28/1239 (2.3%)	1.12	7/1676 (0.4%)
8	G7	0.73	2/1239 (0.2%)	0.99	1/1676 (0.1%)
8	I5	1.50	29/1239 (2.3%)	1.28	15/1676 (0.9%)
8	I7	0.66	1/1239 (0.1%)	1.01	4/1676 (0.2%)
8	K5	1.74	34/1239 (2.7%)	1.39	21/1676 (1.3%)
8	K7	0.78	3/1239 (0.2%)	1.12	6/1676 (0.4%)
8	M5	0.73	2/1239 (0.2%)	1.00	3/1676 (0.2%)
8	M7	0.72	2/1239 (0.2%)	0.98	1/1676 (0.1%)
8	O5	0.67	1/1239 (0.1%)	1.15	9/1676 (0.5%)
8	O7	0.66	1/1239 (0.1%)	1.01	6/1676 (0.4%)
8	Q5	0.85	4/1239 (0.3%)	1.15	7/1676 (0.4%)
8	Q7	0.78	3/1239 (0.2%)	1.12	6/1676 (0.4%)
8	S5	0.73	2/1239 (0.2%)	0.98	1/1676 (0.1%)
8	S7	0.73	2/1239 (0.2%)	0.99	1/1676 (0.1%)
8	U5	0.68	1/1239 (0.1%)	1.17	8/1676 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
8	U7	0.65	1/1239 (0.1%)	1.03	6/1676 (0.4%)
8	W5	0.85	4/1239 (0.3%)	1.15	7/1676 (0.4%)
8	W7	0.78	3/1239 (0.2%)	1.12	6/1676 (0.4%)
8	Y5	0.72	2/1239 (0.2%)	0.98	1/1676 (0.1%)
8	Y7	0.73	2/1239 (0.2%)	0.98	1/1676 (0.1%)
8	a5	1.24	14/1239 (1.1%)	1.19	7/1676 (0.4%)
8	a7	1.03	10/1239 (0.8%)	1.06	7/1676 (0.4%)
8	c5	0.72	2/1239 (0.2%)	0.99	1/1676 (0.1%)
8	c7	1.73	38/1239 (3.1%)	1.53	21/1676 (1.3%)
8	e5	1.24	16/1239 (1.3%)	1.21	8/1676 (0.5%)
8	e7	0.72	1/1239 (0.1%)	0.98	1/1676 (0.1%)
8	g7	1.03	10/1239 (0.8%)	1.06	7/1676 (0.4%)
8	i7	1.73	38/1239 (3.1%)	1.53	21/1676 (1.3%)
8	k7	0.73	1/1239 (0.1%)	1.00	1/1676 (0.1%)
8	m7	0.65	1/1239 (0.1%)	1.00	4/1676 (0.2%)
8	o7	1.84	43/1239 (3.5%)	1.41	18/1676 (1.1%)
8	q7	0.73	2/1239 (0.2%)	1.01	1/1676 (0.1%)
8	s7	0.65	1/1239 (0.1%)	1.03	5/1676 (0.3%)
8	u7	1.84	43/1239 (3.5%)	1.41	18/1676 (1.1%)
9	i5	3.44	74/548 (13.5%)	2.43	20/737 (2.7%)
9	w7	3.26	66/548 (12.0%)	2.44	37/737 (5.0%)
9	x7	2.30	19/548 (3.5%)	1.99	16/737 (2.2%)
9	y7	2.30	19/548 (3.5%)	1.99	16/737 (2.2%)
9	z5	3.44	77/548 (14.1%)	2.44	20/737 (2.7%)
9	z7	3.26	66/548 (12.0%)	2.44	37/737 (5.0%)
10	j5	3.83	1446/9003 (16.1%)	2.36	479/12173 (3.9%)
10	k5	3.83	1453/9003 (16.1%)	2.35	474/12173 (3.9%)
11	a9	1.67	107/6453 (1.7%)	2.08	198/8728 (2.3%)
11	aA	1.67	107/6453 (1.7%)	2.09	200/8728 (2.3%)
All	All	1.35	5153/373432 (1.4%)	1.21	2859/505286 (0.6%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	D5	0	1
1	J5	0	1
3	L9	0	1
3	LA	0	1
3	Q4	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	Q8	0	1
4	M1	0	2
4	M3	0	2
4	M4	0	2
4	M8	0	2
4	M9	0	2
4	MA	0	2
5	Z4	0	2
6	M2	0	5
6	M6	0	5
7	N2	0	1
7	N6	0	1
8	E7	0	1
8	K7	0	1
8	O5	0	1
8	Q5	0	1
8	Q7	0	1
8	U7	0	1
8	W5	0	1
8	W7	0	1
8	a5	0	3
8	c7	0	3
8	e5	0	3
8	i7	0	3
8	o7	0	2
8	u7	0	2
9	i5	0	1
9	x7	0	2
9	y7	0	2
9	z5	0	1
10	j5	0	23
10	k5	0	23
11	a9	0	16
11	aA	0	17
All	All	0	143

All (5153) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	897	SER	C-O	-20.50	1.00	1.24
10	k5	897	SER	C-O	-20.50	1.00	1.24
1	L5	18	TYR	C-N	18.60	1.58	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	p7	18	TYR	C-N	18.58	1.58	1.33
1	v7	18	TYR	C-N	18.55	1.58	1.33
1	F5	18	TYR	C-N	18.52	1.58	1.33
1	F7	18	TYR	C-N	18.46	1.58	1.33
1	R5	18	TYR	C-N	18.44	1.58	1.33
1	R7	18	TYR	C-N	18.42	1.58	1.33
1	L7	18	TYR	C-N	18.42	1.58	1.33
1	X5	18	TYR	C-N	18.39	1.58	1.33
1	d7	18	TYR	C-N	18.38	1.58	1.33
10	j5	680	PRO	C-O	-18.37	1.01	1.23
10	k5	831	PHE	C-O	-18.36	1.02	1.24
1	X7	18	TYR	C-N	18.36	1.58	1.33
1	f5	18	TYR	C-N	18.33	1.58	1.33
1	j7	18	TYR	C-N	18.32	1.58	1.33
10	j5	831	PHE	C-O	-18.31	1.02	1.24
10	k5	680	PRO	C-O	-18.31	1.01	1.23
1	b5	18	TYR	C-N	18.27	1.58	1.33
10	k5	629	TYR	C-O	-17.04	1.03	1.24
10	j5	629	TYR	C-O	-17.00	1.03	1.24
10	k5	457	THR	C-O	-16.92	1.03	1.24
10	j5	882	PRO	C-O	-16.88	1.01	1.24
10	j5	457	THR	C-O	-16.87	1.04	1.24
10	k5	882	PRO	C-O	-16.85	1.01	1.24
10	j5	626	ALA	C-O	-16.79	1.04	1.24
10	k5	626	ALA	C-O	-16.78	1.04	1.24
10	j5	839	ARG	C-O	-16.66	1.05	1.24
10	k5	839	ARG	C-O	-16.61	1.05	1.24
10	j5	631	HIS	C-O	-16.08	1.05	1.24
10	k5	631	HIS	C-O	-16.02	1.05	1.24
10	j5	775	VAL	C-O	-15.62	1.05	1.24
10	k5	775	VAL	C-O	-15.54	1.05	1.24
10	j5	828	VAL	C-O	-15.53	1.05	1.24
10	k5	828	VAL	C-O	-15.46	1.05	1.24
10	k5	458	LEU	C-O	-15.45	1.05	1.24
10	j5	458	LEU	C-O	-15.40	1.05	1.24
10	j5	721	LYS	C-O	-15.34	1.06	1.24
10	k5	721	LYS	C-O	-15.34	1.06	1.24
10	k5	572	TYR	C-O	-15.21	1.04	1.24
10	j5	572	TYR	C-O	-15.18	1.04	1.24
10	j5	571	ALA	C-O	-15.12	1.06	1.24
10	k5	571	ALA	C-O	-15.12	1.06	1.24
10	j5	824	PRO	C-O	-14.97	1.05	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	824	PRO	C-O	-14.94	1.05	1.23
10	j5	774	GLN	C-O	-14.85	1.11	1.23
10	k5	774	GLN	C-O	-14.85	1.11	1.23
10	k5	649	PHE	C-O	-14.75	1.06	1.24
10	j5	649	PHE	C-O	-14.66	1.06	1.24
10	j5	464	GLN	C-O	-14.45	1.12	1.24
10	k5	464	GLN	C-O	-14.45	1.12	1.24
10	j5	460	ALA	C-O	-14.44	1.06	1.24
10	j5	893	ASN	C-O	-14.40	1.06	1.24
10	k5	460	ALA	C-O	-14.40	1.06	1.24
10	k5	893	ASN	C-O	-14.38	1.07	1.24
10	j5	539	LYS	C-O	-14.37	1.07	1.24
10	k5	539	LYS	C-O	-14.32	1.07	1.24
10	j5	665	LEU	C-O	-14.14	1.06	1.24
10	k5	665	LEU	C-O	-14.14	1.06	1.24
10	j5	830	GLU	C-O	-14.09	1.07	1.24
10	k5	830	GLU	C-O	-14.05	1.07	1.24
10	j5	632	ARG	C-O	-14.04	1.07	1.24
10	k5	632	ARG	C-O	-14.04	1.07	1.24
10	j5	774	GLN	CA-C	-13.99	1.40	1.53
9	i5	42	GLN	C-O	-13.98	1.05	1.24
10	k5	774	GLN	CA-C	-13.98	1.40	1.53
9	z5	42	GLN	C-O	-13.97	1.05	1.24
10	k5	372	ARG	C-O	-13.78	1.06	1.24
10	j5	372	ARG	C-O	-13.77	1.06	1.24
10	k5	768	VAL	C-O	-13.77	1.07	1.24
10	j5	816	ARG	C-O	-13.75	1.08	1.24
10	k5	816	ARG	C-O	-13.75	1.08	1.24
10	k5	619	GLU	C-O	-13.73	1.11	1.24
10	k5	792	GLU	C-O	-13.72	1.08	1.24
10	j5	792	GLU	C-O	-13.72	1.08	1.24
10	j5	768	VAL	C-O	-13.71	1.07	1.24
10	k5	650	ASP	CB-CG	13.71	1.86	1.52
10	j5	619	GLU	C-O	-13.68	1.11	1.24
10	j5	486	ILE	C-O	-13.68	1.08	1.24
10	j5	650	ASP	CB-CG	13.68	1.86	1.52
10	k5	486	ILE	C-O	-13.68	1.08	1.24
10	j5	718	MET	C-O	-13.65	1.08	1.24
10	j5	522	ASN	C-O	-13.65	1.10	1.24
10	k5	522	ASN	C-O	-13.65	1.10	1.24
10	k5	637	ARG	C-O	-13.65	1.11	1.24
10	k5	807	ARG	C-O	-13.62	1.07	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	718	MET	C-O	-13.59	1.08	1.24
10	k5	1001	TYR	C-O	-13.58	1.08	1.24
10	j5	807	ARG	C-O	-13.56	1.07	1.24
10	j5	1001	TYR	C-O	-13.55	1.08	1.24
10	k5	685	LEU	C-O	-13.54	1.06	1.23
10	j5	661	VAL	C-O	-13.52	1.08	1.24
9	z5	41	GLN	C-O	-13.51	1.08	1.24
10	j5	829	VAL	C-O	-13.48	1.08	1.24
10	k5	829	VAL	C-O	-13.48	1.08	1.24
10	k5	661	VAL	C-O	-13.47	1.08	1.24
9	i5	41	GLN	C-O	-13.46	1.08	1.24
10	j5	685	LEU	C-O	-13.46	1.06	1.23
10	j5	637	ARG	C-O	-13.45	1.12	1.24
10	j5	645	ASN	C-O	-13.39	1.08	1.24
10	j5	659	GLY	C-O	-13.39	1.07	1.23
10	k5	659	GLY	C-O	-13.39	1.07	1.23
10	k5	645	ASN	C-O	-13.39	1.08	1.24
10	k5	804	GLU	C-O	-13.39	1.08	1.24
10	j5	804	GLU	C-O	-13.38	1.08	1.24
10	j5	625	LYS	C-O	-13.30	1.07	1.24
10	k5	625	LYS	C-O	-13.27	1.07	1.24
10	k5	438	ALA	C-O	-13.23	1.08	1.24
10	k5	569	THR	C-O	-13.22	1.06	1.24
10	j5	569	THR	C-O	-13.21	1.06	1.24
10	j5	438	ALA	C-O	-13.19	1.08	1.24
10	j5	771	ALA	C-O	-13.13	1.06	1.24
10	j5	878	GLU	C-O	-13.12	1.08	1.24
10	k5	878	GLU	C-O	-13.10	1.08	1.24
10	j5	601	LYS	C-O	-13.09	1.08	1.24
10	k5	601	LYS	C-O	-13.09	1.08	1.24
10	k5	771	ALA	C-O	-13.09	1.06	1.24
10	k5	482	GLN	C-O	-13.07	1.09	1.24
10	j5	894	TYR	C-O	-13.06	1.11	1.24
10	j5	482	GLN	C-O	-13.06	1.09	1.24
10	k5	719	MET	C-O	-13.05	1.08	1.24
10	k5	894	TYR	C-O	-13.04	1.11	1.24
10	j5	719	MET	C-O	-13.03	1.08	1.24
10	j5	844	GLN	C-O	-13.01	1.06	1.24
10	k5	844	GLN	C-O	-13.01	1.06	1.24
4	M8	47	VAL	C-O	-12.97	1.12	1.23
4	M4	47	VAL	C-O	-12.91	1.12	1.23
10	k5	500	PRO	C-O	-12.91	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	606	ALA	C-O	-12.87	1.08	1.24
4	M1	47	VAL	C-O	-12.86	1.12	1.23
10	k5	876	TYR	C-O	-12.82	1.07	1.23
10	k5	606	ALA	C-O	-12.82	1.08	1.24
10	j5	833	PHE	C-O	-12.81	1.08	1.24
10	j5	628	GLU	C-O	-12.80	1.08	1.24
10	k5	628	GLU	C-O	-12.80	1.08	1.24
10	k5	833	PHE	C-O	-12.79	1.08	1.24
10	j5	876	TYR	C-O	-12.78	1.07	1.23
4	M3	47	VAL	C-O	-12.77	1.12	1.23
4	MA	47	VAL	C-O	-12.77	1.12	1.23
4	M9	47	VAL	C-O	-12.77	1.12	1.23
10	j5	663	ALA	C-O	-12.76	1.08	1.23
10	j5	599	THR	C-O	-12.74	1.10	1.23
10	k5	599	THR	C-O	-12.74	1.10	1.23
10	j5	500	PRO	C-O	-12.68	1.14	1.24
10	k5	300	ALA	C-O	-12.64	1.09	1.24
10	j5	619	GLU	CA-CB	-12.63	1.36	1.53
10	k5	663	ALA	C-O	-12.63	1.08	1.23
10	j5	300	ALA	C-O	-12.61	1.09	1.24
10	j5	635	LEU	C-O	-12.59	1.09	1.24
10	k5	635	LEU	C-O	-12.59	1.09	1.24
10	k5	619	GLU	CA-CB	-12.58	1.36	1.53
10	j5	716	ALA	C-O	-12.56	1.09	1.24
10	k5	716	ALA	C-O	-12.55	1.09	1.24
10	j5	538	PHE	C-O	-12.54	1.08	1.24
10	k5	538	PHE	C-O	-12.54	1.08	1.24
10	j5	827	LYS	C-O	-12.53	1.07	1.24
10	k5	827	LYS	C-O	-12.53	1.07	1.24
4	M3	45	VAL	C-O	-12.51	1.11	1.24
10	k5	644	GLU	C-O	-12.51	1.09	1.24
10	j5	644	GLU	C-O	-12.45	1.09	1.24
4	M1	45	VAL	C-O	-12.43	1.11	1.24
4	MA	45	VAL	C-O	-12.42	1.11	1.24
4	M9	45	VAL	C-O	-12.42	1.11	1.24
10	j5	510	ILE	C-O	-12.40	1.07	1.24
4	M8	45	VAL	C-O	-12.39	1.11	1.24
4	M4	45	VAL	C-O	-12.39	1.11	1.24
10	j5	764	PHE	C-O	-12.37	1.08	1.24
10	k5	510	ILE	C-O	-12.37	1.07	1.24
10	k5	764	PHE	C-O	-12.37	1.08	1.24
10	k5	847	LEU	C-O	-12.36	1.09	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	575	ILE	C-O	-12.36	1.10	1.24
10	k5	753	PHE	C-O	-12.36	1.09	1.24
10	j5	575	ILE	C-O	-12.36	1.10	1.24
10	j5	641	ASP	CA-C	-12.35	1.37	1.52
9	z7	38	PHE	N-CA	12.34	1.61	1.46
10	j5	439	ALA	C-O	-12.34	1.09	1.24
10	k5	439	ALA	C-O	-12.34	1.09	1.24
9	w7	38	PHE	N-CA	12.34	1.61	1.46
10	j5	618	TRP	CA-C	-12.33	1.40	1.52
10	k5	618	TRP	CA-C	-12.33	1.40	1.52
10	j5	847	LEU	C-O	-12.30	1.09	1.24
3	H2	77	ARG	C-O	-12.29	1.09	1.24
3	H6	77	ARG	C-O	-12.29	1.09	1.24
10	j5	753	PHE	C-O	-12.29	1.09	1.24
10	k5	641	ASP	CA-C	-12.29	1.37	1.52
1	J7	76	ARG	C-O	-12.23	1.10	1.24
10	j5	301	TYR	C-O	-12.21	1.09	1.24
10	j5	899	GLU	C-O	-12.21	1.09	1.24
10	k5	899	GLU	C-O	-12.21	1.09	1.24
10	j5	456	ILE	C-O	-12.20	1.09	1.24
1	D7	76	ARG	C-O	-12.20	1.10	1.24
10	k5	301	TYR	C-O	-12.20	1.09	1.24
10	j5	746	LEU	C-O	-12.18	1.08	1.24
10	j5	605	ARG	C-O	-12.14	1.09	1.24
10	k5	605	ARG	C-O	-12.14	1.09	1.24
10	k5	746	LEU	C-O	-12.13	1.08	1.24
10	j5	455	PHE	C-O	-12.12	1.06	1.23
10	k5	456	ILE	C-O	-12.09	1.10	1.24
10	k5	455	PHE	C-O	-12.06	1.07	1.23
10	j5	473	GLY	C-O	-12.06	1.09	1.23
10	j5	630	ILE	C-O	-12.03	1.09	1.24
10	k5	630	ILE	C-O	-12.03	1.09	1.24
4	M3	19	MET	C-O	-12.02	1.12	1.24
4	M1	19	MET	C-O	-12.02	1.12	1.24
4	M8	19	MET	C-O	-12.00	1.12	1.24
4	MA	19	MET	C-O	-11.98	1.12	1.24
4	M9	19	MET	C-O	-11.98	1.12	1.24
10	k5	473	GLY	C-O	-11.96	1.09	1.23
10	j5	883	SER	C-O	-11.92	1.08	1.24
10	k5	436	TRP	CA-C	-11.92	1.37	1.52
4	M4	19	MET	C-O	-11.92	1.12	1.24
10	j5	591	ILE	C-O	-11.92	1.10	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	591	ILE	C-O	-11.92	1.10	1.24
10	j5	693	ARG	C-O	-11.90	1.10	1.24
10	k5	693	ARG	C-O	-11.90	1.10	1.24
10	k5	703	LEU	C-O	-11.89	1.09	1.24
10	j5	436	TRP	CA-C	-11.88	1.37	1.52
10	k5	883	SER	C-O	-11.85	1.09	1.24
4	M8	56	MET	C-O	-11.84	1.10	1.24
10	k5	684	TYR	C-O	-11.83	1.09	1.23
4	M3	56	MET	C-O	-11.83	1.10	1.24
4	M1	56	MET	C-O	-11.83	1.10	1.24
10	k5	571	ALA	CA-C	-11.83	1.38	1.52
4	M1	59	ILE	C-O	-11.83	1.10	1.24
4	MA	59	ILE	C-O	-11.82	1.10	1.24
10	j5	684	TYR	C-O	-11.82	1.09	1.23
4	M9	59	ILE	C-O	-11.82	1.10	1.24
4	M3	59	ILE	C-O	-11.82	1.10	1.24
4	MA	56	MET	C-O	-11.82	1.10	1.24
4	M9	56	MET	C-O	-11.82	1.10	1.24
4	M4	56	MET	C-O	-11.80	1.10	1.24
10	j5	703	LEU	C-O	-11.79	1.09	1.24
10	j5	571	ALA	CA-C	-11.79	1.38	1.52
4	M8	59	ILE	C-O	-11.78	1.10	1.24
4	M4	59	ILE	C-O	-11.78	1.10	1.24
10	k5	897	SER	CA-C	-11.78	1.37	1.52
10	j5	638	PRO	C-O	-11.76	1.09	1.23
10	k5	638	PRO	C-O	-11.76	1.09	1.23
10	k5	537	ILE	C-O	-11.74	1.11	1.24
10	j5	537	ILE	C-O	-11.74	1.11	1.24
10	j5	715	ALA	C-O	-11.74	1.10	1.24
10	k5	715	ALA	C-O	-11.74	1.10	1.24
10	k5	636	GLY	C-O	-11.71	1.08	1.23
9	i5	37	TRP	C-O	-11.71	1.10	1.24
10	k5	862	LEU	C-O	-11.71	1.10	1.24
10	j5	600	VAL	C-O	-11.71	1.09	1.24
10	j5	862	LEU	C-O	-11.70	1.10	1.24
10	k5	592	LYS	C-O	-11.69	1.09	1.24
10	j5	610	SER	CA-C	-11.68	1.37	1.53
10	k5	600	VAL	C-O	-11.68	1.09	1.24
10	j5	636	GLY	C-O	-11.67	1.08	1.23
10	j5	896	ASN	C-O	-11.67	1.10	1.24
10	k5	896	ASN	C-O	-11.67	1.10	1.24
10	k5	568	ILE	C-O	-11.67	1.09	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	610	SER	CA-C	-11.66	1.37	1.53
10	j5	614	ARG	CA-C	-11.66	1.38	1.52
10	k5	614	ARG	CA-C	-11.66	1.38	1.52
10	j5	681	TYR	C-O	-11.66	1.08	1.23
10	k5	681	TYR	C-O	-11.66	1.08	1.23
10	j5	568	ILE	C-O	-11.64	1.09	1.24
10	j5	448	PRO	C-O	-11.64	1.09	1.24
9	z5	37	TRP	C-O	-11.63	1.10	1.24
10	j5	592	LYS	C-O	-11.64	1.09	1.24
10	j5	723	GLN	CA-C	-11.61	1.37	1.52
8	E5	110	ILE	C-O	-11.60	1.11	1.24
10	j5	399	TYR	C-O	-11.60	1.10	1.24
10	k5	399	TYR	C-O	-11.60	1.10	1.24
10	j5	897	SER	CA-C	-11.57	1.37	1.52
10	k5	627	ILE	C-O	-11.57	1.10	1.24
10	k5	723	GLN	CA-C	-11.56	1.37	1.52
10	k5	448	PRO	C-O	-11.56	1.09	1.24
10	j5	802	VAL	C-O	-11.54	1.09	1.24
10	k5	834	LYS	C-O	-11.53	1.08	1.24
10	j5	627	ILE	C-O	-11.52	1.10	1.24
8	K5	110	ILE	C-O	-11.52	1.11	1.24
10	j5	603	PHE	C-O	-11.51	1.09	1.24
10	j5	834	LYS	C-O	-11.51	1.08	1.24
10	j5	598	THR	C-O	-11.50	1.09	1.23
10	j5	831	PHE	CA-C	-11.49	1.38	1.52
10	k5	598	THR	C-O	-11.49	1.09	1.23
10	k5	802	VAL	C-O	-11.47	1.10	1.24
10	k5	603	PHE	C-O	-11.46	1.09	1.24
10	j5	515	PRO	C-O	-11.46	1.09	1.24
10	k5	515	PRO	C-O	-11.45	1.10	1.24
9	w7	42	GLN	C-O	-11.45	1.10	1.24
9	z7	42	GLN	C-O	-11.44	1.10	1.24
10	k5	831	PHE	CA-C	-11.42	1.38	1.52
10	k5	378	TYR	C-O	-11.40	1.10	1.24
10	j5	511	ARG	C-O	-11.38	1.10	1.24
10	k5	511	ARG	C-O	-11.38	1.10	1.24
10	k5	398	LEU	C-O	-11.38	1.10	1.24
10	j5	398	LEU	C-O	-11.37	1.10	1.24
10	j5	378	TYR	C-O	-11.35	1.10	1.24
4	MA	69	ILE	C-O	-11.32	1.12	1.24
4	M9	69	ILE	C-O	-11.32	1.12	1.24
10	k5	607	LEU	C-O	-11.32	1.10	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M4	69	ILE	C-O	-11.27	1.12	1.24
10	j5	898	VAL	C-O	-11.25	1.10	1.24
4	M3	69	ILE	C-O	-11.24	1.12	1.24
4	M1	69	ILE	C-O	-11.24	1.12	1.24
10	k5	508	ILE	C-O	-11.24	1.11	1.24
4	M8	69	ILE	C-O	-11.23	1.12	1.24
10	j5	683	ARG	C-O	-11.22	1.09	1.24
10	j5	492	ILE	C-O	-11.21	1.11	1.24
10	k5	492	ILE	C-O	-11.21	1.11	1.24
10	j5	837	LEU	C-O	-11.20	1.09	1.24
10	k5	683	ARG	C-O	-11.20	1.09	1.24
10	k5	898	VAL	C-O	-11.19	1.10	1.24
10	k5	837	LEU	C-O	-11.18	1.09	1.24
10	j5	607	LEU	C-O	-11.16	1.10	1.24
9	z5	45	GLN	C-O	-11.15	1.10	1.24
10	j5	690	LEU	C-O	-11.15	1.09	1.24
10	k5	690	LEU	C-O	-11.15	1.09	1.24
9	i5	44	ILE	C-O	-11.13	1.10	1.24
10	j5	717	ARG	C-O	-11.12	1.10	1.24
10	j5	508	ILE	C-O	-11.11	1.11	1.24
9	i5	45	GLN	C-O	-11.11	1.10	1.24
9	z5	44	ILE	C-O	-11.11	1.10	1.24
10	j5	670	TYR	C-O	-11.10	1.11	1.24
10	k5	670	TYR	C-O	-11.10	1.11	1.24
10	j5	441	ASP	C-O	-11.10	1.10	1.24
10	k5	717	ARG	C-O	-11.10	1.10	1.24
8	o7	52	LYS	C-O	-11.10	1.10	1.24
8	u7	52	LYS	C-O	-11.08	1.10	1.24
10	k5	808	LEU	C-O	-11.06	1.09	1.24
10	k5	466	LEU	C-O	-11.06	1.09	1.24
10	j5	466	LEU	C-O	-11.04	1.09	1.24
10	j5	808	LEU	C-O	-11.04	1.09	1.24
9	z5	38	PHE	C-O	-11.04	1.11	1.24
10	k5	441	ASP	C-O	-11.03	1.10	1.24
10	j5	564	VAL	C-O	-11.01	1.11	1.24
10	k5	564	VAL	C-O	-11.01	1.11	1.24
10	k5	931	VAL	C-O	-11.01	1.11	1.24
10	j5	442	LEU	C-O	-11.01	1.11	1.24
10	k5	442	LEU	C-O	-11.01	1.11	1.24
9	i5	38	PHE	C-O	-11.00	1.11	1.24
10	k5	536	LYS	C-O	-10.96	1.09	1.23
4	M4	51	ARG	C-O	-10.93	1.09	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	931	VAL	C-O	-10.93	1.11	1.24
10	j5	373	ALA	C-O	-10.92	1.10	1.24
10	j5	536	LYS	C-O	-10.91	1.09	1.23
10	j5	657	PHE	C-O	-10.91	1.11	1.24
10	k5	657	PHE	C-O	-10.91	1.11	1.24
10	j5	866	LEU	C-O	-10.90	1.11	1.24
9	z5	40	GLU	CA-C	-10.88	1.38	1.52
4	MA	51	ARG	C-O	-10.88	1.09	1.24
4	M9	51	ARG	C-O	-10.88	1.09	1.24
10	k5	866	LEU	C-O	-10.87	1.11	1.24
4	M3	51	ARG	C-O	-10.87	1.09	1.24
4	M1	51	ARG	C-O	-10.87	1.09	1.24
4	M8	51	ARG	C-O	-10.87	1.09	1.24
10	j5	905	THR	C-O	-10.86	1.10	1.23
10	k5	373	ALA	C-O	-10.86	1.10	1.24
8	i7	125	ALA	C-O	-10.85	1.11	1.24
4	M4	71	PRO	C-O	-10.85	1.10	1.23
10	k5	623	VAL	C-O	-10.84	1.10	1.24
8	o7	80	LEU	C-O	-10.84	1.11	1.24
4	M3	71	PRO	C-O	-10.84	1.10	1.23
4	M1	71	PRO	C-O	-10.84	1.10	1.23
4	M8	71	PRO	C-O	-10.84	1.10	1.23
10	k5	930	LEU	C-O	-10.83	1.11	1.24
4	MA	71	PRO	C-O	-10.81	1.10	1.23
4	M9	71	PRO	C-O	-10.81	1.10	1.23
10	k5	905	THR	C-O	-10.81	1.10	1.23
4	M8	55	GLU	C-O	-10.81	1.11	1.24
10	j5	930	LEU	C-O	-10.80	1.11	1.24
9	i5	40	GLU	CA-C	-10.79	1.38	1.52
9	i5	20	GLY	C-O	-10.78	1.09	1.23
8	u7	80	LEU	C-O	-10.78	1.11	1.24
10	j5	723	GLN	C-O	-10.78	1.11	1.24
10	k5	723	GLN	C-O	-10.78	1.11	1.24
10	j5	642	ARG	C-O	-10.77	1.09	1.24
10	j5	773	VAL	C-O	-10.77	1.11	1.24
10	k5	642	ARG	C-O	-10.77	1.09	1.24
10	k5	773	VAL	C-O	-10.77	1.11	1.24
9	z5	20	GLY	C-O	-10.76	1.09	1.23
10	j5	623	VAL	C-O	-10.75	1.11	1.24
4	M4	55	GLU	C-O	-10.75	1.11	1.24
8	I5	5	THR	C-O	-10.74	1.11	1.24
10	j5	656	GLY	C-O	-10.74	1.09	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	c7	125	ALA	C-O	-10.74	1.11	1.24
8	C5	5	THR	C-O	-10.73	1.11	1.24
4	M3	55	GLU	C-O	-10.73	1.11	1.24
10	k5	590	GLU	C-O	-10.73	1.11	1.24
4	M1	55	GLU	C-O	-10.73	1.11	1.24
10	k5	576	PHE	C-O	-10.72	1.09	1.24
4	MA	55	GLU	C-O	-10.71	1.11	1.24
10	j5	652	ALA	CA-C	-10.71	1.38	1.52
10	k5	652	ALA	CA-C	-10.71	1.38	1.52
4	M9	55	GLU	C-O	-10.71	1.11	1.24
10	k5	349	GLN	C-O	-10.71	1.14	1.24
10	j5	590	GLU	C-O	-10.71	1.11	1.24
10	j5	741	GLN	C-O	-10.71	1.10	1.23
8	c7	132	ALA	C-O	-10.70	1.11	1.24
10	k5	622	TYR	C-O	-10.69	1.11	1.23
10	k5	656	GLY	C-O	-10.69	1.09	1.23
10	j5	853	LEU	C-O	-10.69	1.10	1.24
10	k5	853	LEU	C-O	-10.69	1.10	1.24
8	K5	104	ILE	C-O	-10.68	1.12	1.24
9	z5	40	GLU	C-O	-10.68	1.11	1.24
10	j5	450	ARG	C-O	-10.67	1.11	1.24
10	k5	450	ARG	C-O	-10.67	1.11	1.24
9	i5	40	GLU	C-O	-10.67	1.11	1.24
8	i7	132	ALA	C-O	-10.66	1.11	1.24
10	k5	741	GLN	C-O	-10.65	1.10	1.23
10	j5	622	TYR	C-O	-10.65	1.11	1.23
8	E5	104	ILE	C-O	-10.65	1.12	1.24
10	j5	349	GLN	C-O	-10.64	1.14	1.24
10	j5	576	PHE	C-O	-10.62	1.10	1.24
10	k5	871	GLU	C-O	-10.61	1.11	1.24
4	MA	41	ASN	C-O	-10.61	1.11	1.24
4	M9	41	ASN	C-O	-10.61	1.11	1.24
4	M3	41	ASN	C-O	-10.61	1.11	1.24
10	k5	421	PRO	C-O	-10.61	1.11	1.23
4	M1	41	ASN	C-O	-10.61	1.11	1.24
10	k5	660	VAL	C-O	-10.60	1.11	1.24
10	j5	660	VAL	C-O	-10.60	1.11	1.24
4	M8	41	ASN	C-O	-10.59	1.11	1.24
10	j5	567	LEU	C-O	-10.59	1.10	1.24
10	k5	567	LEU	C-O	-10.59	1.10	1.24
4	M4	41	ASN	C-O	-10.59	1.11	1.24
10	j5	633	ARG	C-O	-10.58	1.11	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	651	ILE	C-O	-10.58	1.13	1.24
10	j5	651	ILE	C-O	-10.58	1.13	1.24
10	j5	615	LYS	CA-CB	-10.54	1.36	1.53
10	k5	633	ARG	C-O	-10.53	1.11	1.24
10	j5	421	PRO	C-O	-10.53	1.11	1.23
10	j5	379	PHE	C-O	-10.53	1.10	1.24
10	j5	803	LYS	C-O	-10.53	1.10	1.24
10	k5	379	PHE	C-O	-10.53	1.10	1.24
10	k5	674	PHE	CA-C	-10.51	1.38	1.52
10	j5	566	ALA	C-O	-10.49	1.10	1.24
10	j5	871	GLU	C-O	-10.49	1.11	1.24
10	k5	566	ALA	C-O	-10.49	1.10	1.24
10	k5	615	LYS	CA-CB	-10.49	1.36	1.53
10	k5	803	LYS	C-O	-10.47	1.10	1.24
10	j5	674	PHE	CA-C	-10.47	1.38	1.52
8	u7	55	GLY	C-O	-10.45	1.11	1.23
8	o7	55	GLY	C-O	-10.44	1.11	1.23
10	j5	455	PHE	CA-C	-10.41	1.39	1.52
10	k5	455	PHE	CA-C	-10.41	1.39	1.52
10	j5	801	SER	C-O	-10.38	1.10	1.23
10	k5	801	SER	C-O	-10.38	1.10	1.23
10	j5	937	GLU	C-O	-10.38	1.11	1.24
10	k5	937	GLU	C-O	-10.38	1.11	1.24
10	k5	820	HIS	C-O	-10.38	1.10	1.24
10	j5	836	PHE	C-O	-10.37	1.10	1.24
10	j5	887	PRO	C-O	-10.37	1.11	1.23
10	k5	887	PRO	C-O	-10.37	1.11	1.23
10	j5	647	ARG	CA-C	-10.36	1.39	1.52
8	u7	36	ARG	C-O	-10.36	1.11	1.24
10	j5	852	GLY	C-O	-10.35	1.09	1.23
8	o7	36	ARG	C-O	-10.35	1.11	1.24
10	j5	859	ILE	C-O	-10.34	1.11	1.24
10	k5	852	GLY	C-O	-10.34	1.09	1.23
10	k5	859	ILE	C-O	-10.34	1.11	1.24
10	j5	401	LEU	C-O	-10.33	1.12	1.24
10	k5	401	LEU	C-O	-10.33	1.12	1.24
10	j5	619	GLU	C-N	-10.32	1.25	1.33
10	k5	619	GLU	C-N	-10.32	1.25	1.33
10	k5	836	PHE	C-O	-10.30	1.10	1.24
10	j5	820	HIS	C-O	-10.30	1.10	1.24
10	k5	647	ARG	CA-C	-10.29	1.39	1.52
10	j5	812	SER	C-O	-10.28	1.11	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	812	SER	C-O	-10.28	1.11	1.23
10	k5	722	ILE	C-O	-10.26	1.11	1.24
10	j5	485	ALA	C-O	-10.25	1.09	1.23
10	j5	722	ILE	C-O	-10.24	1.11	1.24
10	j5	343	TYR	C-O	-10.24	1.10	1.24
10	k5	673	VAL	C-O	-10.24	1.12	1.24
4	M3	52	LEU	C-O	-10.22	1.12	1.24
4	M1	52	LEU	C-O	-10.22	1.12	1.24
9	z5	41	GLN	CA-C	-10.22	1.39	1.52
9	i5	41	GLN	CA-C	-10.22	1.39	1.52
4	MA	52	LEU	C-O	-10.21	1.12	1.24
4	M9	52	LEU	C-O	-10.21	1.12	1.24
10	j5	673	VAL	C-O	-10.21	1.12	1.24
4	M4	52	LEU	C-O	-10.21	1.12	1.24
8	o7	81	CYS	C-O	-10.18	1.11	1.24
10	k5	485	ALA	C-O	-10.17	1.09	1.23
4	M8	52	LEU	C-O	-10.17	1.12	1.24
8	u7	81	CYS	C-O	-10.15	1.12	1.24
10	j5	804	GLU	CA-C	-10.14	1.39	1.52
10	k5	343	TYR	C-O	-10.14	1.10	1.24
10	j5	751	LYS	C-O	-10.13	1.11	1.23
10	k5	751	LYS	C-O	-10.13	1.11	1.23
10	k5	804	GLU	CA-C	-10.13	1.39	1.52
10	j5	628	GLU	CA-C	-10.12	1.39	1.52
9	w7	44	ILE	C-O	-10.12	1.12	1.24
9	z5	22	GLU	C-O	-10.11	1.10	1.23
10	k5	628	GLU	CA-C	-10.11	1.39	1.52
9	z7	44	ILE	C-O	-10.11	1.12	1.24
10	j5	1126	ALA	C-O	-10.10	1.12	1.24
9	i5	22	GLU	C-O	-10.09	1.10	1.23
8	a5	8	ILE	C-O	-10.08	1.10	1.24
4	M4	70	SER	C-O	-10.07	1.11	1.24
10	k5	1127	SER	C-O	-10.06	1.12	1.24
8	e5	8	ILE	C-O	-10.05	1.10	1.24
10	j5	443	TYR	C-O	-10.05	1.11	1.24
10	j5	650	ASP	C-O	-10.04	1.10	1.24
10	k5	650	ASP	C-O	-10.04	1.10	1.24
4	M1	70	SER	C-O	-10.04	1.11	1.24
10	j5	616	LEU	C-O	-10.04	1.12	1.24
10	k5	616	LEU	C-O	-10.03	1.12	1.24
10	j5	1127	SER	C-O	-10.03	1.12	1.24
10	k5	1126	ALA	C-O	-10.03	1.12	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	443	TYR	C-O	-10.03	1.11	1.24
4	MA	70	SER	C-O	-10.02	1.12	1.24
4	M9	32	SER	CA-C	-10.02	1.40	1.52
4	M9	70	SER	C-O	-10.02	1.12	1.24
4	M8	70	SER	C-O	-10.02	1.12	1.24
4	M3	70	SER	C-O	-10.01	1.12	1.24
4	M4	32	SER	CA-C	-10.01	1.40	1.52
10	j5	646	ASN	C-O	-10.00	1.11	1.24
4	M8	32	SER	CA-C	-10.00	1.40	1.52
10	j5	900	LEU	C-O	-9.99	1.12	1.24
10	k5	646	ASN	C-O	-9.98	1.11	1.24
10	j5	513	GLY	C-O	-9.96	1.11	1.23
10	k5	436	TRP	C-O	-9.96	1.12	1.24
4	M3	32	SER	CA-C	-9.96	1.40	1.52
4	M1	32	SER	CA-C	-9.96	1.40	1.52
4	MA	32	SER	CA-C	-9.95	1.40	1.52
10	j5	894	TYR	CA-C	-9.94	1.41	1.52
8	u7	39	ILE	C-O	-9.94	1.11	1.24
10	k5	668	ASN	C-O	-9.93	1.12	1.24
10	j5	436	TRP	C-O	-9.93	1.12	1.24
10	k5	900	LEU	C-O	-9.92	1.12	1.24
10	k5	894	TYR	CA-C	-9.90	1.41	1.52
10	j5	668	ASN	C-O	-9.90	1.12	1.24
9	w7	41	GLN	C-O	-9.89	1.12	1.24
10	j5	796	ARG	C-O	-9.89	1.11	1.24
10	k5	796	ARG	C-O	-9.89	1.11	1.24
10	j5	451	LYS	C-O	-9.88	1.11	1.23
10	k5	451	LYS	C-O	-9.88	1.11	1.23
10	k5	513	GLY	C-O	-9.88	1.11	1.23
10	j5	870	GLU	C-O	-9.86	1.12	1.24
10	j5	665	LEU	CA-C	-9.86	1.39	1.52
10	k5	665	LEU	CA-C	-9.86	1.39	1.52
4	MA	54	ALA	C-O	-9.86	1.12	1.24
10	k5	815	TYR	CA-C	-9.86	1.40	1.52
10	j5	597	GLU	C-O	-9.85	1.11	1.24
10	k5	597	GLU	C-O	-9.85	1.11	1.24
10	k5	893	ASN	CA-C	-9.85	1.40	1.52
9	z7	41	GLN	C-O	-9.85	1.12	1.24
9	z5	30	LYS	C-O	-9.85	1.12	1.23
10	j5	815	TYR	CA-C	-9.85	1.40	1.52
4	M9	54	ALA	C-O	-9.84	1.12	1.24
10	k5	870	GLU	C-O	-9.82	1.12	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M3	54	ALA	C-O	-9.82	1.12	1.24
9	i5	30	LYS	C-O	-9.82	1.12	1.23
4	M1	54	ALA	C-O	-9.82	1.12	1.24
10	j5	535	PRO	C-O	-9.81	1.12	1.23
10	k5	535	PRO	C-O	-9.81	1.12	1.23
10	k5	811	PHE	C-O	-9.81	1.10	1.24
10	k5	775	VAL	CA-CB	-9.81	1.43	1.54
10	j5	775	VAL	CA-CB	-9.80	1.43	1.54
10	j5	889	LEU	C-O	-9.80	1.12	1.24
10	k5	687	PRO	C-O	-9.80	1.12	1.24
10	k5	889	LEU	C-O	-9.80	1.12	1.24
4	M4	54	ALA	C-O	-9.80	1.12	1.24
10	j5	835	HIS	C-O	-9.79	1.10	1.23
10	k5	643	VAL	C-O	-9.79	1.12	1.24
4	MA	48	PRO	C-O	-9.78	1.12	1.23
4	M9	48	PRO	C-O	-9.78	1.12	1.23
10	j5	811	PHE	C-O	-9.78	1.10	1.24
10	j5	893	ASN	CA-C	-9.78	1.40	1.52
10	k5	832	ALA	C-O	-9.77	1.11	1.24
4	M4	48	PRO	C-O	-9.77	1.12	1.23
10	j5	643	VAL	C-O	-9.77	1.12	1.24
10	j5	832	ALA	C-O	-9.77	1.11	1.24
4	M8	54	ALA	C-O	-9.77	1.12	1.24
10	j5	507	ARG	C-O	-9.77	1.11	1.23
10	k5	507	ARG	C-O	-9.77	1.11	1.23
10	k5	835	HIS	C-O	-9.77	1.10	1.23
9	w7	40	GLU	C-O	-9.77	1.11	1.24
8	C5	5	THR	CA-C	-9.76	1.40	1.52
10	k5	692	LEU	C-O	-9.76	1.11	1.24
10	j5	863	ILE	C-O	-9.76	1.12	1.24
10	k5	863	ILE	C-O	-9.76	1.12	1.24
10	j5	687	PRO	C-O	-9.76	1.12	1.24
10	j5	648	TYR	C-O	-9.74	1.12	1.24
10	k5	648	TYR	C-O	-9.74	1.12	1.24
10	k5	648	TYR	CA-C	-9.74	1.40	1.52
10	j5	497	ARG	C-O	-9.73	1.12	1.23
10	j5	788	PHE	CA-C	-9.73	1.41	1.53
10	j5	692	LEU	C-O	-9.73	1.11	1.24
10	j5	648	TYR	CA-C	-9.73	1.40	1.52
10	j5	861	ALA	C-O	-9.73	1.11	1.24
4	M3	48	PRO	C-O	-9.73	1.12	1.23
9	z7	40	GLU	C-O	-9.73	1.11	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M1	48	PRO	C-O	-9.73	1.12	1.23
10	j5	936	LYS	C-O	-9.72	1.12	1.24
4	M8	48	PRO	C-O	-9.72	1.12	1.23
10	j5	475	GLY	C-O	-9.72	1.11	1.24
10	j5	608	GLY	C-O	-9.72	1.11	1.23
10	k5	475	GLY	C-O	-9.72	1.11	1.24
10	k5	608	GLY	C-O	-9.72	1.11	1.23
8	I5	5	THR	CA-C	-9.71	1.40	1.52
10	j5	754	LYS	C-O	-9.71	1.11	1.23
10	k5	936	LYS	C-O	-9.71	1.12	1.24
10	k5	754	LYS	C-O	-9.70	1.11	1.23
4	M4	13	LYS	N-CA	-9.69	1.34	1.46
10	k5	861	ALA	C-O	-9.69	1.11	1.24
4	M3	13	LYS	N-CA	-9.68	1.34	1.46
4	M1	13	LYS	N-CA	-9.68	1.34	1.46
10	j5	626	ALA	CA-C	-9.68	1.40	1.52
10	j5	814	LEU	C-O	-9.68	1.12	1.24
10	k5	626	ALA	CA-C	-9.68	1.40	1.52
4	MA	13	LYS	N-CA	-9.67	1.34	1.46
10	k5	814	LEU	C-O	-9.67	1.12	1.24
4	M8	13	LYS	N-CA	-9.66	1.34	1.46
10	k5	788	PHE	CA-C	-9.65	1.41	1.53
10	j5	411	TYR	CA-C	-9.65	1.40	1.52
10	j5	637	ARG	CA-C	-9.64	1.43	1.52
10	k5	637	ARG	CA-C	-9.64	1.43	1.52
10	k5	767	LEU	CA-C	-9.64	1.40	1.52
10	k5	497	ARG	C-O	-9.64	1.13	1.23
8	E5	116	TYR	N-CA	-9.63	1.34	1.46
10	j5	767	LEU	CA-C	-9.63	1.40	1.52
10	j5	517	SER	C-O	-9.63	1.11	1.24
10	k5	517	SER	C-O	-9.63	1.11	1.24
4	M8	46	VAL	C-O	-9.63	1.13	1.24
10	j5	690	LEU	CA-C	-9.62	1.39	1.52
10	k5	348	TYR	C-O	-9.61	1.11	1.24
10	j5	865	ALA	C-O	-9.61	1.12	1.24
10	j5	855	GLY	C-O	-9.61	1.12	1.23
10	k5	865	ALA	C-O	-9.61	1.12	1.24
10	k5	855	GLY	C-O	-9.61	1.12	1.23
4	M9	13	LYS	N-CA	-9.61	1.34	1.46
10	j5	613	PHE	C-O	-9.60	1.12	1.24
10	j5	1124	TYR	C-O	-9.60	1.12	1.24
10	k5	411	TYR	CA-C	-9.60	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	1124	TYR	C-O	-9.60	1.12	1.24
5	Z8	13	SER	CA-C	-9.59	1.48	1.53
10	k5	634	LEU	C-O	-9.59	1.11	1.24
10	j5	658	TYR	CA-C	-9.58	1.40	1.52
10	j5	720	ASP	C-O	-9.58	1.12	1.24
10	k5	613	PHE	C-O	-9.58	1.12	1.24
10	k5	658	TYR	CA-C	-9.58	1.40	1.52
4	MA	46	VAL	C-O	-9.57	1.13	1.24
10	j5	816	ARG	CA-C	-9.57	1.40	1.52
4	M9	46	VAL	C-O	-9.57	1.13	1.24
10	k5	482	GLN	CA-C	-9.57	1.41	1.52
10	k5	452	VAL	C-O	-9.56	1.12	1.24
10	j5	835	HIS	CA-C	-9.56	1.39	1.52
10	k5	835	HIS	CA-C	-9.56	1.39	1.52
10	j5	482	GLN	CA-C	-9.56	1.41	1.52
10	k5	901	TYR	CA-C	-9.56	1.39	1.52
10	j5	634	LEU	C-O	-9.55	1.11	1.24
10	j5	658	TYR	C-O	-9.56	1.12	1.24
10	j5	795	LEU	C-O	-9.56	1.12	1.24
10	k5	795	LEU	C-O	-9.56	1.12	1.24
4	M4	46	VAL	C-O	-9.55	1.13	1.24
8	K5	116	TYR	N-CA	-9.55	1.34	1.46
10	k5	690	LEU	CA-C	-9.55	1.39	1.52
5	N3	13	SER	CA-C	-9.55	1.48	1.53
5	N1	13	SER	CA-C	-9.55	1.48	1.53
10	j5	884	TRP	C-O	-9.54	1.12	1.24
10	j5	348	TYR	C-O	-9.54	1.11	1.24
5	Z4	13	SER	CA-C	-9.54	1.48	1.53
10	k5	747	LYS	C-O	-9.54	1.12	1.24
10	k5	658	TYR	C-O	-9.53	1.12	1.24
4	M3	46	VAL	C-O	-9.53	1.13	1.24
4	M1	46	VAL	C-O	-9.53	1.13	1.24
10	j5	452	VAL	C-O	-9.52	1.12	1.24
10	j5	901	TYR	CA-C	-9.52	1.39	1.52
10	k5	850	TYR	C-O	-9.52	1.11	1.24
10	k5	1131	ASN	C-O	-9.52	1.11	1.24
10	j5	772	TYR	C-O	-9.52	1.11	1.24
10	k5	772	TYR	C-O	-9.52	1.11	1.24
9	x7	20	GLY	C-O	-9.52	1.12	1.23
10	k5	720	ASP	C-O	-9.51	1.12	1.24
10	j5	688	ALA	C-O	-9.51	1.12	1.24
10	k5	688	ALA	C-O	-9.51	1.12	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	381	ILE	C-O	-9.50	1.13	1.23
10	j5	747	LYS	C-O	-9.50	1.13	1.24
9	y7	20	GLY	C-O	-9.50	1.12	1.23
10	j5	1131	ASN	C-O	-9.50	1.11	1.24
10	k5	884	TRP	C-O	-9.49	1.12	1.24
10	k5	816	ARG	CA-C	-9.48	1.40	1.52
5	NA	13	SER	CA-C	-9.48	1.48	1.53
5	N9	13	SER	CA-C	-9.48	1.48	1.53
10	k5	732	ARG	C-O	-9.47	1.12	1.23
10	j5	850	TYR	C-O	-9.46	1.11	1.24
8	i7	116	TYR	C-O	-9.46	1.12	1.24
10	k5	610	SER	C-O	-9.45	1.11	1.23
10	k5	674	PHE	C-O	-9.45	1.10	1.23
10	j5	686	THR	C-O	-9.44	1.09	1.23
10	k5	686	THR	C-O	-9.44	1.09	1.23
10	j5	614	ARG	C-O	-9.43	1.13	1.24
10	j5	381	ILE	C-O	-9.43	1.14	1.23
9	i5	39	THR	C-O	-9.42	1.12	1.24
10	j5	693	ARG	CA-C	-9.42	1.41	1.52
10	j5	674	PHE	C-O	-9.42	1.10	1.23
8	c7	116	TYR	C-O	-9.41	1.12	1.24
10	j5	880	THR	CA-C	-9.41	1.40	1.52
10	k5	614	ARG	C-O	-9.40	1.13	1.24
10	j5	793	SER	C-O	-9.40	1.13	1.24
10	k5	793	SER	C-O	-9.40	1.13	1.24
10	k5	399	TYR	CA-C	-9.40	1.40	1.52
10	j5	610	SER	C-O	-9.39	1.11	1.23
10	k5	400	ALA	C-O	-9.39	1.12	1.24
10	k5	929	PRO	C-O	-9.39	1.12	1.24
9	z5	39	THR	C-O	-9.38	1.12	1.24
10	k5	872	TYR	C-O	-9.37	1.12	1.24
10	k5	880	THR	CA-C	-9.36	1.40	1.52
10	j5	404	ALA	C-O	-9.36	1.13	1.24
10	j5	542	GLN	CA-C	-9.36	1.40	1.52
10	j5	872	TYR	C-O	-9.36	1.12	1.24
10	j5	400	ALA	C-O	-9.35	1.12	1.24
10	j5	399	TYR	CA-C	-9.35	1.40	1.52
10	k5	876	TYR	CA-C	-9.34	1.40	1.52
10	k5	542	GLN	CA-C	-9.34	1.40	1.52
10	k5	693	ARG	CA-C	-9.33	1.41	1.52
10	j5	565	GLN	C-O	-9.33	1.11	1.24
10	j5	817	LYS	C-O	-9.33	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	832	ALA	CA-C	-9.33	1.39	1.52
10	k5	817	LYS	C-O	-9.33	1.13	1.24
10	k5	832	ALA	CA-C	-9.33	1.39	1.52
9	z5	23	LEU	CA-C	-9.32	1.40	1.52
9	i5	23	LEU	CA-C	-9.32	1.40	1.52
10	j5	929	PRO	C-O	-9.32	1.13	1.24
10	k5	404	ALA	C-O	-9.32	1.13	1.24
8	u7	58	LEU	C-O	-9.31	1.13	1.24
10	j5	730	ASN	C-O	-9.31	1.12	1.24
10	j5	677	ASP	CA-C	-9.30	1.40	1.52
10	k5	10	THR	C-O	-9.30	1.14	1.24
10	k5	677	ASP	CA-C	-9.28	1.40	1.52
10	j5	876	TYR	CA-C	-9.28	1.40	1.52
10	k5	730	ASN	C-O	-9.28	1.12	1.24
10	k5	490	SER	C-O	-9.27	1.12	1.24
10	j5	850	TYR	CA-C	-9.27	1.40	1.52
10	j5	462	TYR	CA-C	-9.26	1.40	1.52
10	j5	611	GLU	C-O	-9.26	1.13	1.24
10	k5	611	GLU	C-O	-9.26	1.13	1.24
8	o7	58	LEU	C-O	-9.26	1.13	1.24
10	k5	462	TYR	CA-C	-9.26	1.40	1.52
10	k5	615	LYS	CA-C	-9.25	1.40	1.52
10	k5	850	TYR	CA-C	-9.25	1.40	1.52
10	k5	461	ASP	C-O	-9.24	1.12	1.24
10	j5	10	THR	C-O	-9.23	1.14	1.24
10	j5	490	SER	C-O	-9.23	1.12	1.24
10	j5	732	ARG	CA-C	-9.23	1.41	1.52
10	j5	766	ALA	C-O	-9.23	1.13	1.24
10	k5	766	ALA	C-O	-9.23	1.13	1.24
8	C5	11	ALA	C-O	-9.23	1.12	1.24
10	j5	647	ARG	C-O	-9.21	1.13	1.24
10	k5	647	ARG	C-O	-9.21	1.13	1.24
10	j5	615	LYS	CA-C	-9.21	1.40	1.52
10	k5	565	GLN	C-O	-9.21	1.12	1.24
10	k5	689	GLY	C-O	-9.20	1.12	1.23
10	j5	591	ILE	CA-C	-9.20	1.41	1.52
10	k5	484	GLY	C-O	-9.19	1.12	1.23
4	M3	47	VAL	CA-CB	-9.19	1.47	1.54
4	M1	47	VAL	CA-CB	-9.19	1.47	1.54
10	k5	474	ALA	C-O	-9.19	1.12	1.24
10	k5	726	GLY	C-O	-9.19	1.11	1.23
10	j5	474	ALA	C-O	-9.18	1.12	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	461	ASP	C-O	-9.17	1.12	1.24
10	j5	525	GLY	C-O	-9.17	1.13	1.23
10	j5	702	VAL	C-O	-9.17	1.13	1.24
10	k5	702	VAL	C-O	-9.16	1.13	1.24
11	a9	818	ARG	CA-C	-9.16	1.41	1.52
11	aA	818	ARG	CA-C	-9.16	1.41	1.52
9	z5	34	TYR	CA-C	-9.16	1.40	1.52
9	z5	45	GLN	CA-C	-9.16	1.41	1.52
10	k5	732	ARG	CA-C	-9.16	1.41	1.53
10	k5	525	GLY	C-O	-9.15	1.13	1.23
4	M4	47	VAL	CA-CB	-9.15	1.47	1.54
8	I5	11	ALA	C-O	-9.15	1.12	1.24
9	i5	34	TYR	CA-C	-9.15	1.40	1.52
10	j5	726	GLY	C-O	-9.15	1.11	1.23
10	k5	496	GLU	C-O	-9.15	1.12	1.23
10	k5	615	LYS	C-O	-9.14	1.13	1.24
8	C5	9	VAL	C-O	-9.14	1.13	1.24
8	I5	9	VAL	C-O	-9.14	1.13	1.24
10	k5	403	ASP	C-O	-9.14	1.13	1.24
4	MA	25	LEU	C-O	-9.13	1.13	1.24
4	M9	25	LEU	C-O	-9.13	1.13	1.24
10	j5	403	ASP	C-O	-9.12	1.13	1.24
10	k5	769	THR	C-O	-9.12	1.12	1.24
4	MA	58	TYR	C-O	-9.12	1.13	1.24
4	M9	58	TYR	C-O	-9.12	1.13	1.24
10	j5	615	LYS	C-O	-9.12	1.13	1.24
10	j5	769	THR	C-O	-9.12	1.12	1.24
10	j5	484	GLY	C-O	-9.11	1.12	1.23
10	j5	1006	ASP	C-O	-9.11	1.13	1.24
10	k5	591	ILE	CA-C	-9.12	1.41	1.52
10	k5	1006	ASP	C-O	-9.11	1.13	1.24
4	MA	47	VAL	CA-CB	-9.11	1.47	1.54
4	M9	47	VAL	CA-CB	-9.11	1.47	1.54
9	z7	39	THR	C-O	-9.11	1.11	1.24
4	M8	47	VAL	CA-CB	-9.11	1.47	1.54
10	j5	496	GLU	C-O	-9.11	1.12	1.23
10	k5	575	ILE	CA-CB	-9.11	1.43	1.54
10	k5	935	LEU	C-O	-9.11	1.12	1.24
9	i5	45	GLN	CA-C	-9.10	1.41	1.52
10	k5	489	ASN	C-O	-9.09	1.13	1.24
4	M3	58	TYR	C-O	-9.09	1.13	1.24
4	M4	25	LEU	C-O	-9.09	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	652	ALA	C-O	-9.09	1.12	1.24
10	j5	689	GLY	C-O	-9.09	1.12	1.23
4	M8	25	LEU	C-O	-9.09	1.13	1.24
4	M1	58	TYR	C-O	-9.09	1.13	1.24
10	j5	895	PRO	C-O	-9.08	1.12	1.24
9	w7	39	THR	C-O	-9.08	1.11	1.24
4	M4	58	TYR	C-O	-9.07	1.13	1.24
10	j5	575	ILE	CA-CB	-9.07	1.43	1.54
10	j5	22	THR	C-O	-9.06	1.13	1.24
10	j5	432	PRO	C-O	-9.05	1.13	1.23
10	j5	489	ASN	C-O	-9.05	1.13	1.24
10	j5	935	LEU	C-O	-9.05	1.12	1.24
10	k5	791	LEU	C-O	-9.05	1.13	1.24
10	k5	767	LEU	C-O	-9.05	1.13	1.24
10	j5	464	GLN	CA-C	-9.04	1.42	1.52
10	k5	464	GLN	CA-C	-9.04	1.42	1.52
10	j5	411	TYR	C-O	-9.04	1.13	1.24
10	j5	767	LEU	C-O	-9.04	1.13	1.24
8	o7	39	ILE	C-O	-9.04	1.11	1.24
10	k5	569	THR	CA-C	-9.04	1.40	1.52
10	k5	593	LEU	C-O	-9.04	1.13	1.24
10	k5	895	PRO	C-O	-9.04	1.12	1.24
4	M8	58	TYR	C-O	-9.03	1.13	1.24
10	j5	791	LEU	C-O	-9.02	1.13	1.24
10	j5	745	ALA	C-O	-9.02	1.12	1.24
10	j5	725	LEU	C-O	-9.01	1.11	1.24
10	j5	593	LEU	C-O	-9.01	1.13	1.24
10	k5	725	LEU	C-O	-9.01	1.11	1.24
8	i7	129	GLY	C-O	-9.00	1.12	1.23
10	k5	652	ALA	C-O	-9.00	1.12	1.24
10	j5	569	THR	CA-C	-8.99	1.40	1.52
10	k5	509	LEU	C-O	-8.99	1.12	1.24
8	c7	129	GLY	C-O	-8.99	1.13	1.23
4	M3	25	LEU	C-O	-8.99	1.13	1.24
10	k5	465	PRO	C-O	-8.99	1.12	1.23
10	k5	468	ASN	C-O	-8.99	1.13	1.24
10	j5	449	ARG	C-O	-8.99	1.12	1.24
10	j5	594	GLU	C-O	-8.99	1.12	1.24
10	k5	449	ARG	C-O	-8.99	1.12	1.24
4	M1	25	LEU	C-O	-8.99	1.13	1.24
10	k5	432	PRO	C-O	-8.98	1.13	1.23
10	j5	25	ILE	C-O	-8.97	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	25	ILE	C-O	-8.97	1.13	1.24
10	k5	594	GLU	C-O	-8.97	1.12	1.24
10	k5	411	TYR	C-O	-8.97	1.13	1.24
10	j5	468	ASN	C-O	-8.96	1.13	1.24
8	c7	32	SER	C-N	8.96	1.46	1.33
10	j5	465	PRO	C-O	-8.95	1.12	1.23
10	k5	745	ALA	C-O	-8.95	1.12	1.24
8	K5	116	TYR	C-O	-8.94	1.13	1.24
8	i7	32	SER	C-N	8.93	1.46	1.33
10	j5	732	ARG	C-O	-8.93	1.12	1.23
10	k5	755	GLN	CA-C	-8.93	1.40	1.52
9	i5	23	LEU	C-O	-8.93	1.12	1.24
11	a9	603	THR	CA-C	8.93	1.64	1.52
11	aA	603	THR	CA-C	8.93	1.64	1.52
10	j5	932	GLN	C-O	-8.92	1.12	1.24
8	E5	116	TYR	C-O	-8.91	1.13	1.24
10	j5	580	LEU	C-O	-8.91	1.12	1.23
4	MA	38	PRO	C-O	-8.91	1.13	1.24
8	A5	49	ARG	C-O	-8.91	1.13	1.24
4	M9	38	PRO	C-O	-8.91	1.13	1.24
4	M3	38	PRO	C-O	-8.90	1.13	1.24
10	k5	580	LEU	C-O	-8.90	1.12	1.23
8	E7	32	SER	C-N	8.89	1.46	1.33
8	K7	32	SER	C-N	8.89	1.46	1.33
10	j5	509	LEU	C-O	-8.89	1.12	1.24
4	M3	66	VAL	CA-C	-8.88	1.42	1.52
4	M1	66	VAL	CA-C	-8.88	1.42	1.52
3	FA	148	VAL	C-O	-8.88	1.15	1.24
10	j5	348	TYR	CA-C	-8.88	1.43	1.52
10	k5	380	SER	C-O	-8.88	1.12	1.24
8	u7	32	SER	C-N	8.88	1.46	1.33
4	M9	66	VAL	CA-C	-8.88	1.42	1.52
4	M1	38	PRO	C-O	-8.87	1.13	1.24
10	k5	1129	ARG	C-O	-8.87	1.13	1.24
8	Q5	32	SER	C-N	8.86	1.46	1.33
10	k5	348	TYR	CA-C	-8.86	1.43	1.52
10	j5	675	GLY	C-O	-8.86	1.12	1.24
10	j5	903	ARG	C-O	-8.86	1.13	1.24
10	k5	903	ARG	C-O	-8.86	1.13	1.24
4	MA	66	VAL	CA-C	-8.85	1.42	1.52
4	M8	38	PRO	C-O	-8.84	1.14	1.24
8	W5	32	SER	C-N	8.84	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M4	38	PRO	C-O	-8.84	1.14	1.24
10	j5	683	ARG	CZ-NH2	-8.83	1.22	1.33
10	j5	755	GLN	CA-C	-8.83	1.40	1.52
10	k5	683	ARG	CZ-NH2	-8.83	1.22	1.33
10	k5	808	LEU	CA-C	-8.83	1.40	1.52
10	j5	380	SER	C-O	-8.83	1.12	1.24
8	G5	49	ARG	C-O	-8.82	1.14	1.24
4	M8	66	VAL	CA-C	-8.82	1.42	1.52
10	j5	808	LEU	CA-C	-8.82	1.40	1.52
4	M4	66	VAL	CA-C	-8.81	1.42	1.52
10	k5	675	GLY	C-O	-8.81	1.12	1.24
10	k5	932	GLN	C-O	-8.81	1.12	1.24
10	j5	588	VAL	C-O	-8.81	1.13	1.24
10	k5	588	VAL	C-O	-8.81	1.13	1.24
10	j5	574	GLN	C-O	-8.80	1.12	1.23
9	z5	23	LEU	C-O	-8.80	1.12	1.24
10	j5	706	PRO	C-O	-8.80	1.12	1.24
10	j5	1129	ARG	C-O	-8.80	1.13	1.24
10	k5	706	PRO	C-O	-8.80	1.12	1.24
10	k5	22	THR	C-O	-8.79	1.13	1.24
10	k5	621	PHE	C-O	-8.79	1.12	1.23
10	k5	574	GLN	C-O	-8.79	1.12	1.23
8	E5	32	SER	C-N	8.78	1.46	1.33
10	j5	716	ALA	CA-C	-8.78	1.41	1.52
8	W7	32	SER	C-N	8.78	1.46	1.33
10	j5	756	SER	C-O	-8.78	1.12	1.24
10	k5	716	ALA	CA-C	-8.78	1.41	1.52
10	k5	756	SER	C-O	-8.78	1.12	1.24
8	Q7	32	SER	C-N	8.78	1.46	1.33
1	h7	40	ALA	C-O	-8.78	1.13	1.24
10	j5	468	ASN	CA-C	-8.77	1.42	1.52
10	j5	710	THR	C-O	-8.77	1.13	1.24
10	k5	468	ASN	CA-C	-8.77	1.42	1.52
10	k5	712	ARG	CA-C	-8.77	1.41	1.52
8	o7	32	SER	C-N	8.76	1.46	1.33
8	o7	45	GLU	CA-C	-8.76	1.41	1.52
10	j5	438	ALA	CA-C	-8.75	1.41	1.52
1	b7	40	ALA	C-O	-8.75	1.13	1.24
8	K5	32	SER	C-N	8.74	1.46	1.33
9	w7	33	PRO	C-O	-8.74	1.13	1.23
10	j5	572	TYR	CA-C	-8.74	1.40	1.52
10	k5	710	THR	C-O	-8.74	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	664	MET	C-O	-8.74	1.13	1.24
10	k5	664	MET	C-O	-8.74	1.13	1.24
1	b7	53	LYS	C-O	-8.73	1.12	1.24
8	u7	45	GLU	CA-C	-8.73	1.41	1.52
9	z7	28	PHE	C-O	-8.73	1.12	1.23
10	j5	621	PHE	C-O	-8.72	1.12	1.23
10	j5	807	ARG	CA-C	-8.72	1.41	1.52
10	k5	807	ARG	CA-C	-8.72	1.41	1.52
10	j5	712	ARG	CA-C	-8.72	1.41	1.52
9	z7	33	PRO	C-O	-8.71	1.13	1.23
4	M8	65	ARG	C-O	-8.71	1.14	1.24
10	k5	768	VAL	CA-C	-8.71	1.41	1.52
10	k5	572	TYR	CA-C	-8.71	1.40	1.52
10	k5	1035	PHE	C-O	-8.71	1.14	1.24
10	j5	806	VAL	C-O	-8.70	1.13	1.24
10	j5	459	PHE	C-O	-8.70	1.14	1.24
10	k5	459	PHE	C-O	-8.70	1.14	1.24
10	j5	520	ARG	C-O	-8.70	1.12	1.24
10	j5	768	VAL	CA-C	-8.70	1.41	1.52
10	j5	805	PHE	C-O	-8.70	1.13	1.24
10	k5	520	ARG	C-O	-8.70	1.12	1.24
10	k5	789	SER	C-O	-8.69	1.13	1.24
1	h7	53	LYS	C-O	-8.69	1.12	1.24
4	MA	65	ARG	C-O	-8.69	1.14	1.24
10	j5	272	PHE	C-O	-8.69	1.14	1.24
10	k5	438	ALA	CA-C	-8.69	1.41	1.52
4	M9	65	ARG	C-O	-8.69	1.14	1.24
10	k5	565	GLN	CA-C	-8.68	1.40	1.52
9	w7	28	PHE	C-O	-8.68	1.12	1.23
10	j5	856	ARG	C-O	-8.68	1.13	1.24
10	k5	856	ARG	C-O	-8.68	1.13	1.24
10	j5	1035	PHE	C-O	-8.67	1.14	1.24
9	i5	3	ARG	C-O	-8.66	1.12	1.23
10	j5	249	SER	CA-C	-8.66	1.49	1.53
10	k5	805	PHE	C-O	-8.66	1.13	1.24
10	j5	565	GLN	CA-C	-8.65	1.40	1.52
10	k5	806	VAL	C-O	-8.65	1.13	1.24
10	k5	676	GLU	N-CA	-8.65	1.36	1.46
4	M3	53	LEU	C-O	-8.64	1.13	1.24
10	j5	676	GLU	N-CA	-8.64	1.36	1.46
10	j5	344	ARG	C-O	-8.64	1.13	1.24
4	M1	53	LEU	C-O	-8.64	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	a9	632	ILE	CA-C	-8.64	1.40	1.52
11	aA	632	ILE	CA-C	-8.64	1.40	1.52
10	k5	573	GLN	C-O	-8.64	1.12	1.24
10	k5	619	GLU	N-CA	-8.64	1.37	1.46
3	LA	91	ARG	C-O	-8.63	1.14	1.24
3	L9	91	ARG	C-O	-8.63	1.14	1.24
9	z5	3	ARG	C-O	-8.63	1.12	1.23
10	k5	272	PHE	C-O	-8.63	1.14	1.24
10	k5	792	GLU	CA-C	-8.63	1.41	1.52
10	j5	447	ALA	CA-C	-8.62	1.42	1.52
10	j5	617	TYR	C-O	-8.62	1.12	1.24
10	k5	617	TYR	C-O	-8.62	1.12	1.24
10	k5	699	SER	C-O	-8.61	1.13	1.24
10	j5	619	GLU	N-CA	-8.61	1.37	1.46
10	j5	789	SER	C-O	-8.61	1.13	1.24
9	w7	43	ARG	C-O	-8.60	1.14	1.24
10	k5	447	ALA	CA-C	-8.60	1.42	1.52
4	M4	65	ARG	C-O	-8.60	1.14	1.24
8	K5	95	GLY	C-O	-8.60	1.13	1.23
8	E5	95	GLY	C-O	-8.59	1.13	1.23
10	k5	344	ARG	C-O	-8.59	1.13	1.24
10	k5	590	GLU	CA-C	-8.59	1.41	1.52
9	z7	43	ARG	C-O	-8.59	1.14	1.24
8	G5	55	GLY	C-O	-8.58	1.13	1.23
8	I5	8	ILE	C-O	-8.58	1.14	1.24
10	j5	699	SER	C-O	-8.58	1.13	1.24
10	j5	792	GLU	CA-C	-8.58	1.41	1.52
10	j5	409	GLU	CA-C	-8.57	1.42	1.52
10	k5	409	GLU	CA-C	-8.57	1.42	1.52
8	A5	55	GLY	C-O	-8.57	1.13	1.23
10	j5	573	GLN	C-O	-8.57	1.12	1.24
10	j5	492	ILE	CA-C	-8.57	1.42	1.52
4	M8	53	LEU	C-O	-8.57	1.14	1.24
10	k5	952	PHE	C-O	-8.56	1.14	1.24
10	k5	249	SER	CA-C	-8.56	1.49	1.53
9	i5	37	TRP	CA-C	-8.56	1.41	1.52
10	j5	590	GLU	CA-C	-8.56	1.41	1.52
10	j5	620	PRO	CA-C	-8.56	1.44	1.52
10	j5	952	PHE	C-O	-8.55	1.14	1.24
8	A5	50	ILE	C-O	-8.55	1.14	1.24
9	z5	37	TRP	CA-C	-8.55	1.41	1.52
10	j5	427	GLY	C-O	-8.55	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	427	GLY	C-O	-8.55	1.13	1.23
4	MA	53	LEU	C-O	-8.55	1.14	1.24
4	M9	53	LEU	C-O	-8.55	1.14	1.24
4	M3	65	ARG	C-O	-8.54	1.14	1.24
4	M4	53	LEU	C-O	-8.54	1.14	1.24
4	M1	65	ARG	C-O	-8.54	1.14	1.24
10	j5	499	ALA	CA-C	-8.54	1.42	1.52
8	C5	8	ILE	C-O	-8.53	1.14	1.24
8	G5	50	ILE	C-O	-8.52	1.14	1.24
10	k5	492	ILE	CA-C	-8.52	1.42	1.52
8	C5	24	ASP	CA-C	-8.51	1.44	1.53
10	j5	739	VAL	C-O	-8.51	1.14	1.24
10	j5	765	ASP	C-O	-8.51	1.13	1.24
10	j5	917	LYS	CA-C	-8.50	1.44	1.53
10	j5	864	GLY	C-O	-8.49	1.13	1.23
10	k5	864	GLY	C-O	-8.49	1.13	1.23
8	I5	24	ASP	CA-C	-8.49	1.44	1.53
8	c7	123	ILE	CA-C	-8.49	1.44	1.52
8	I5	4	LEU	C-O	-8.48	1.14	1.24
10	k5	434	TRP	C-O	-8.48	1.13	1.24
4	M1	110	TYR	CA-C	-8.48	1.42	1.52
10	j5	854	LEU	N-CA	-8.48	1.35	1.46
10	k5	499	ALA	CA-C	-8.48	1.42	1.52
10	k5	437	GLY	C-O	-8.47	1.13	1.23
10	k5	917	LYS	CA-C	-8.47	1.44	1.53
10	k5	383	SER	CA-C	-8.47	1.40	1.52
8	A5	52	LYS	C-O	-8.46	1.14	1.24
10	k5	765	ASP	C-O	-8.46	1.13	1.24
11	a9	579	PHE	CA-C	-8.46	1.41	1.52
11	aA	579	PHE	CA-C	-8.46	1.41	1.52
4	MA	110	TYR	CA-C	-8.46	1.42	1.52
4	M9	110	TYR	CA-C	-8.46	1.42	1.52
10	k5	516	THR	C-O	-8.45	1.12	1.24
10	j5	483	PHE	CA-C	-8.45	1.41	1.52
10	k5	483	PHE	CA-C	-8.45	1.41	1.52
8	i7	123	ILE	CA-C	-8.45	1.44	1.52
10	j5	657	PHE	CA-C	-8.44	1.42	1.52
10	j5	594	GLU	CA-C	-8.43	1.41	1.52
10	k5	594	GLU	CA-C	-8.43	1.41	1.52
10	k5	620	PRO	CA-C	-8.43	1.44	1.52
10	j5	434	TRP	C-O	-8.43	1.13	1.24
10	j5	709	ILE	C-O	-8.43	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	383	SER	CA-C	-8.42	1.40	1.52
10	k5	783	TYR	C-O	-8.42	1.12	1.24
10	k5	854	LEU	N-CA	-8.42	1.35	1.46
10	j5	691	SER	C-O	-8.42	1.12	1.24
10	k5	691	SER	C-O	-8.42	1.12	1.24
8	C5	4	LEU	C-O	-8.42	1.14	1.24
8	G5	54	ALA	C-O	-8.41	1.14	1.24
10	j5	516	THR	C-O	-8.41	1.12	1.24
4	M8	110	TYR	CA-C	-8.41	1.42	1.52
4	M3	110	TYR	CA-C	-8.40	1.42	1.52
10	j5	783	TYR	C-O	-8.39	1.13	1.24
10	j5	437	GLY	C-O	-8.39	1.13	1.23
10	j5	409	GLU	C-O	-8.39	1.14	1.24
8	A5	54	ALA	C-O	-8.39	1.14	1.24
10	j5	769	THR	CA-C	-8.39	1.41	1.52
9	i5	32	VAL	C-O	-8.38	1.13	1.24
10	j5	755	GLN	C-O	-8.38	1.13	1.24
10	k5	409	GLU	C-O	-8.38	1.14	1.24
10	k5	755	GLN	C-O	-8.38	1.13	1.24
5	Z4	30	PRO	N-CD	-8.37	1.36	1.47
10	k5	657	PHE	CA-C	-8.37	1.42	1.52
10	k5	997	ILE	C-O	-8.37	1.14	1.24
8	G5	52	LYS	C-O	-8.37	1.14	1.24
10	j5	433	SER	C-O	-8.37	1.12	1.24
10	k5	433	SER	C-O	-8.37	1.12	1.24
10	k5	709	ILE	C-O	-8.37	1.15	1.24
10	j5	825	ASN	C-O	-8.36	1.13	1.24
8	c7	113	LYS	C-O	-8.36	1.14	1.24
4	M4	110	TYR	CA-C	-8.35	1.42	1.52
10	k5	825	ASN	C-O	-8.35	1.13	1.24
4	M3	68	ASP	CB-CG	-8.35	1.31	1.52
4	M1	68	ASP	CB-CG	-8.35	1.31	1.52
4	M4	68	ASP	CB-CG	-8.35	1.31	1.52
10	j5	888	THR	C-O	-8.35	1.13	1.23
9	z5	32	VAL	C-O	-8.34	1.14	1.24
4	MA	68	ASP	CB-CG	-8.34	1.31	1.52
8	i7	113	LYS	C-O	-8.34	1.14	1.24
4	M9	68	ASP	CB-CG	-8.34	1.31	1.52
10	j5	444	ASN	C-O	-8.33	1.12	1.23
10	k5	444	ASN	C-O	-8.33	1.12	1.23
10	k5	672	GLU	C-O	-8.33	1.14	1.24
10	k5	1001	TYR	CA-C	-8.32	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	842	LYS	C-O	-8.32	1.14	1.24
10	j5	1001	TYR	CA-C	-8.31	1.42	1.52
4	M8	68	ASP	CB-CG	-8.31	1.31	1.52
10	k5	669	GLU	C-O	-8.31	1.13	1.24
10	k5	769	THR	CA-C	-8.31	1.41	1.52
10	k5	577	GLY	C-O	-8.30	1.12	1.24
8	u7	50	ILE	C-O	-8.30	1.14	1.24
4	M8	230	GLN	C-O	-8.30	1.17	1.23
10	k5	682	GLU	C-O	-8.30	1.14	1.24
10	k5	888	THR	C-O	-8.29	1.13	1.23
11	a9	48	LEU	C-O	-8.29	1.14	1.24
11	aA	48	LEU	C-O	-8.29	1.14	1.24
10	j5	997	ILE	C-O	-8.29	1.14	1.24
10	k5	653	SER	C-O	-8.29	1.12	1.24
10	j5	671	GLN	C-O	-8.29	1.14	1.24
10	k5	671	GLN	C-O	-8.29	1.14	1.24
10	j5	724	GLU	C-O	-8.28	1.12	1.24
10	j5	940	ALA	C-O	-8.28	1.14	1.24
8	u7	54	ALA	C-O	-8.28	1.14	1.24
10	j5	682	GLU	C-O	-8.27	1.14	1.24
10	j5	1117	PRO	C-O	-8.27	1.14	1.23
10	k5	1117	PRO	C-O	-8.27	1.14	1.23
10	k5	724	GLU	C-O	-8.27	1.12	1.24
8	K5	94	TYR	C-O	-8.26	1.14	1.24
10	j5	669	GLU	C-O	-8.26	1.13	1.24
4	M3	41	ASN	N-CA	-8.26	1.36	1.46
10	j5	653	SER	C-O	-8.26	1.12	1.24
4	M1	41	ASN	N-CA	-8.26	1.36	1.46
10	j5	672	GLU	C-O	-8.26	1.14	1.24
10	j5	785	ARG	CA-C	-8.26	1.46	1.52
8	E5	94	TYR	C-O	-8.26	1.14	1.24
10	j5	842	LYS	C-O	-8.25	1.14	1.24
4	M4	41	ASN	N-CA	-8.25	1.36	1.46
4	M8	71	PRO	CA-C	-8.25	1.42	1.52
10	j5	933	ALA	C-O	-8.25	1.13	1.24
10	k5	933	ALA	C-O	-8.25	1.13	1.24
8	o7	50	ILE	C-O	-8.24	1.14	1.24
4	M1	71	PRO	CA-C	-8.24	1.42	1.52
10	k5	605	ARG	CA-C	-8.24	1.42	1.52
4	M3	71	PRO	CA-C	-8.23	1.42	1.52
10	k5	785	ARG	CA-C	-8.23	1.46	1.52
10	k5	842	LYS	CA-C	-8.22	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M8	36	TYR	C-O	-8.22	1.13	1.23
10	j5	549	LYS	N-CA	8.22	1.56	1.46
10	j5	577	GLY	C-O	-8.22	1.12	1.24
10	k5	476	ASN	CG-ND2	-8.22	1.16	1.33
9	i5	4	TYR	C-O	-8.21	1.13	1.23
8	K5	107	ILE	C-O	-8.21	1.14	1.24
10	j5	668	ASN	CA-C	-8.21	1.42	1.52
10	j5	478	PRO	CA-C	-8.21	1.43	1.52
4	M4	36	TYR	C-O	-8.20	1.13	1.23
4	M4	71	PRO	CA-C	-8.20	1.42	1.52
10	j5	842	LYS	CA-C	-8.20	1.42	1.52
10	k5	538	PHE	CA-C	-8.20	1.42	1.52
8	o7	54	ALA	C-O	-8.20	1.14	1.24
8	K5	116	TYR	CA-C	-8.20	1.42	1.52
1	D5	12	TYR	C-O	-8.20	1.13	1.24
4	M4	66	VAL	C-O	-8.20	1.14	1.24
10	k5	940	ALA	C-O	-8.20	1.14	1.24
8	c7	118	SER	C-O	-8.20	1.14	1.24
10	k5	549	LYS	N-CA	8.19	1.56	1.46
8	E5	107	ILE	C-O	-8.19	1.14	1.24
10	j5	351	PHE	C-O	-8.19	1.11	1.23
10	k5	351	PHE	C-O	-8.19	1.11	1.23
10	k5	450	ARG	CZ-NH2	-8.19	1.22	1.33
10	k5	1130	VAL	C-O	-8.19	1.14	1.24
10	j5	490	SER	CA-C	-8.18	1.41	1.52
4	MA	41	ASN	N-CA	-8.18	1.36	1.46
10	k5	490	SER	CA-C	-8.18	1.41	1.52
10	k5	854	LEU	C-O	-8.18	1.13	1.24
4	M9	41	ASN	N-CA	-8.18	1.36	1.46
8	A5	56	ASP	C-O	-8.18	1.14	1.24
8	E5	111	GLY	C-O	-8.18	1.12	1.23
10	j5	476	ASN	CG-ND2	-8.18	1.16	1.33
4	M4	59	ILE	CA-C	-8.18	1.42	1.52
10	j5	854	LEU	C-O	-8.18	1.13	1.24
4	MA	71	PRO	CA-C	-8.18	1.42	1.52
4	M3	26	SER	C-O	-8.18	1.13	1.24
10	j5	454	GLN	C-O	-8.18	1.13	1.24
10	j5	780	ILE	C-O	-8.18	1.12	1.24
10	j5	875	LEU	C-O	-8.18	1.14	1.24
10	k5	454	GLN	C-O	-8.18	1.13	1.24
10	k5	780	ILE	C-O	-8.18	1.12	1.24
4	M9	71	PRO	CA-C	-8.18	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M1	26	SER	C-O	-8.18	1.13	1.24
8	E5	116	TYR	CA-C	-8.17	1.42	1.52
10	j5	417	GLU	C-O	-8.17	1.13	1.24
8	u7	7	ALA	C-O	-8.17	1.13	1.24
4	M4	26	SER	C-O	-8.17	1.13	1.24
8	G5	56	ASP	C-O	-8.17	1.14	1.24
4	M8	41	ASN	N-CA	-8.17	1.36	1.46
4	M8	59	ILE	CA-C	-8.17	1.42	1.52
4	M3	59	ILE	CA-C	-8.17	1.42	1.52
4	M1	59	ILE	CA-C	-8.17	1.42	1.52
4	M3	36	TYR	C-O	-8.16	1.13	1.23
10	j5	1130	VAL	C-O	-8.16	1.14	1.24
4	M1	36	TYR	C-O	-8.16	1.13	1.23
4	MA	36	TYR	C-O	-8.16	1.13	1.23
10	j5	462	TYR	C-O	-8.16	1.13	1.24
10	k5	462	TYR	C-O	-8.16	1.13	1.24
10	k5	875	LEU	C-O	-8.16	1.14	1.24
10	k5	739	VAL	C-O	-8.16	1.14	1.24
4	M9	36	TYR	C-O	-8.16	1.13	1.23
10	j5	776	PHE	CA-C	-8.16	1.41	1.52
10	k5	776	PHE	CA-C	-8.16	1.41	1.52
1	J5	12	TYR	C-O	-8.16	1.13	1.24
10	j5	605	ARG	CA-C	-8.16	1.42	1.52
10	j5	847	LEU	N-CA	-8.16	1.36	1.46
10	k5	847	LEU	N-CA	-8.16	1.36	1.46
4	MA	26	SER	C-O	-8.15	1.13	1.24
8	K5	111	GLY	C-O	-8.15	1.12	1.23
4	M9	26	SER	C-O	-8.15	1.13	1.24
10	j5	408	SER	CA-C	-8.15	1.42	1.53
10	k5	408	SER	CA-C	-8.15	1.42	1.53
8	i7	118	SER	C-O	-8.15	1.14	1.24
8	I5	7	ALA	C-O	-8.15	1.15	1.24
4	M8	26	SER	C-O	-8.15	1.13	1.24
4	MA	59	ILE	CA-C	-8.15	1.42	1.52
4	M9	59	ILE	CA-C	-8.15	1.42	1.52
10	k5	668	ASN	CA-C	-8.15	1.42	1.52
8	o7	7	ALA	C-O	-8.14	1.13	1.24
4	M3	62	LYS	CA-C	-8.14	1.41	1.52
4	M8	66	VAL	C-O	-8.14	1.14	1.24
10	j5	1108	GLU	C-O	-8.14	1.14	1.24
4	M3	66	VAL	C-O	-8.14	1.14	1.24
4	M1	66	VAL	C-O	-8.14	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	511	ARG	CA-C	-8.13	1.42	1.52
4	M4	178	PRO	C-O	-8.13	1.17	1.24
10	k5	417	GLU	C-O	-8.13	1.13	1.24
4	MA	178	PRO	C-O	-8.13	1.17	1.24
10	j5	450	ARG	CZ-NH2	-8.13	1.22	1.33
4	M9	178	PRO	C-O	-8.13	1.17	1.24
10	j5	538	PHE	CA-C	-8.12	1.42	1.52
10	j5	760	ASP	C-O	-8.12	1.13	1.24
10	k5	760	ASP	C-O	-8.12	1.13	1.24
8	G5	60	GLN	C-O	-8.12	1.13	1.24
4	M8	62	LYS	CA-C	-8.12	1.41	1.52
10	j5	313	GLY	C-O	-8.11	1.15	1.24
10	j5	806	VAL	CA-C	-8.11	1.42	1.52
10	k5	511	ARG	CA-C	-8.11	1.42	1.52
9	z5	4	TYR	C-O	-8.11	1.13	1.23
10	j5	505	VAL	C-O	-8.11	1.14	1.24
4	MA	66	VAL	C-O	-8.11	1.14	1.24
10	j5	641	ASP	C-O	-8.11	1.14	1.23
10	k5	1108	GLU	C-O	-8.11	1.14	1.24
4	M9	66	VAL	C-O	-8.11	1.14	1.24
4	MA	62	LYS	CA-C	-8.10	1.42	1.52
4	M3	143	VAL	C-O	-8.10	1.14	1.24
4	M9	62	LYS	CA-C	-8.10	1.42	1.52
4	M1	143	VAL	C-O	-8.10	1.14	1.24
8	A5	60	GLN	C-O	-8.10	1.13	1.24
10	j5	291	ASP	N-CA	-8.10	1.36	1.46
10	k5	291	ASP	N-CA	-8.10	1.36	1.46
10	j5	862	LEU	CA-C	-8.10	1.42	1.52
11	a9	58	GLY	CA-C	8.10	1.60	1.52
11	aA	58	GLY	CA-C	8.10	1.60	1.52
10	k5	405	LEU	C-O	-8.10	1.14	1.24
10	k5	641	ASP	C-O	-8.10	1.14	1.23
10	k5	478	PRO	CA-C	-8.09	1.43	1.52
8	C5	7	ALA	C-O	-8.09	1.15	1.24
10	j5	405	LEU	C-O	-8.08	1.14	1.24
10	j5	500	PRO	CA-C	-8.08	1.45	1.52
10	j5	860	LYS	CA-C	-8.08	1.41	1.52
10	j5	874	ARG	CA-C	-8.08	1.42	1.52
10	k5	500	PRO	CA-C	-8.08	1.45	1.52
10	k5	874	ARG	CA-C	-8.08	1.42	1.52
10	k5	719	MET	CA-C	-8.08	1.42	1.52
4	MA	143	VAL	C-O	-8.07	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M9	143	VAL	C-O	-8.07	1.14	1.24
4	M1	62	LYS	CA-C	-8.07	1.42	1.52
10	k5	901	TYR	C-O	-8.07	1.14	1.24
10	k5	410	GLU	C-O	-8.07	1.14	1.24
4	M8	178	PRO	C-O	-8.07	1.17	1.24
9	z5	43	ARG	C-O	-8.06	1.14	1.24
10	j5	830	GLU	CA-C	-8.06	1.42	1.52
10	j5	881	VAL	N-CA	-8.06	1.38	1.47
10	k5	830	GLU	CA-C	-8.06	1.42	1.52
10	k5	881	VAL	N-CA	-8.06	1.38	1.47
10	j5	640	TYR	CA-C	-8.06	1.42	1.52
10	k5	625	LYS	CA-C	-8.05	1.42	1.52
10	k5	640	TYR	CA-C	-8.05	1.42	1.52
8	u7	51	VAL	C-O	-8.05	1.14	1.24
9	i5	43	ARG	C-O	-8.05	1.14	1.24
10	k5	806	VAL	CA-C	-8.04	1.42	1.52
4	M3	65	ARG	CA-C	-8.04	1.42	1.52
4	M3	178	PRO	C-O	-8.04	1.17	1.24
10	j5	488	LYS	C-O	-8.04	1.13	1.23
10	k5	488	LYS	C-O	-8.04	1.13	1.23
4	M1	178	PRO	C-O	-8.04	1.17	1.24
10	j5	370	GLU	C-O	-8.04	1.13	1.24
10	k5	860	LYS	CA-C	-8.04	1.41	1.52
10	j5	625	LYS	CA-C	-8.04	1.42	1.52
4	M4	62	LYS	CA-C	-8.03	1.42	1.52
9	z7	67	VAL	C-O	-8.04	1.15	1.24
4	M8	65	ARG	CA-C	-8.04	1.42	1.52
10	j5	839	ARG	CA-C	-8.03	1.44	1.53
10	k5	505	VAL	C-O	-8.03	1.15	1.24
10	k5	839	ARG	CA-C	-8.03	1.44	1.53
4	M1	65	ARG	CA-C	-8.03	1.42	1.52
10	j5	410	GLU	C-O	-8.02	1.14	1.24
10	k5	862	LEU	CA-C	-8.02	1.42	1.52
8	o7	51	VAL	C-O	-8.02	1.14	1.24
10	j5	581	TYR	C-O	-8.02	1.13	1.23
10	j5	719	MET	CA-C	-8.02	1.42	1.52
10	j5	677	ASP	CB-CG	-8.02	1.32	1.52
10	k5	677	ASP	CB-CG	-8.02	1.32	1.52
10	k5	677	ASP	C-O	-8.02	1.13	1.24
10	j5	300	ALA	CA-C	-8.02	1.42	1.52
10	k5	446	ALA	C-O	-8.01	1.13	1.24
10	j5	476	ASN	C-O	-8.01	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	1036	VAL	C-O	-8.00	1.14	1.24
10	k5	313	GLY	C-O	-8.00	1.15	1.24
9	i5	5	PHE	C-O	-8.00	1.13	1.23
10	j5	677	ASP	C-O	-8.00	1.14	1.24
10	j5	901	TYR	C-O	-8.00	1.14	1.24
10	j5	5	GLY	C-O	-8.00	1.14	1.24
10	k5	477	ASP	C-O	-8.00	1.15	1.24
10	k5	506	LYS	C-O	-8.00	1.14	1.24
10	j5	477	ASP	C-O	-7.99	1.15	1.24
10	k5	476	ASN	C-O	-7.99	1.13	1.24
4	MA	65	ARG	CA-C	-7.99	1.42	1.52
4	M4	65	ARG	CA-C	-7.99	1.42	1.52
10	k5	581	TYR	C-O	-7.99	1.13	1.23
4	M9	65	ARG	CA-C	-7.99	1.42	1.52
9	w7	67	VAL	C-O	-7.99	1.15	1.24
8	E5	80	LEU	C-O	-7.99	1.13	1.24
9	z5	5	PHE	C-O	-7.99	1.13	1.23
8	K5	80	LEU	C-O	-7.99	1.13	1.24
10	j5	972	GLY	C-O	-7.99	1.13	1.24
10	j5	1093	VAL	C-O	-7.99	1.14	1.24
10	k5	1093	VAL	C-O	-7.99	1.14	1.24
10	j5	893	ASN	N-CA	-7.98	1.36	1.46
10	j5	752	VAL	C-O	-7.98	1.15	1.24
10	k5	752	VAL	C-O	-7.98	1.15	1.24
4	M8	143	VAL	C-O	-7.98	1.14	1.24
10	j5	566	ALA	CA-C	-7.98	1.41	1.52
10	k5	566	ALA	CA-C	-7.98	1.41	1.52
10	j5	704	THR	C-O	-7.98	1.14	1.24
10	k5	704	THR	C-O	-7.98	1.14	1.24
9	i5	20	GLY	CA-C	-7.98	1.40	1.51
10	j5	809	LEU	C-O	-7.97	1.12	1.23
10	k5	300	ALA	CA-C	-7.97	1.42	1.52
10	k5	809	LEU	C-O	-7.97	1.12	1.23
10	j5	518	ASN	C-O	-7.97	1.13	1.24
10	k5	518	ASN	C-O	-7.97	1.13	1.24
10	k5	5	GLY	C-O	-7.97	1.14	1.24
10	j5	446	ALA	C-O	-7.97	1.13	1.24
10	j5	528	GLU	CA-C	-7.96	1.43	1.52
10	k5	528	GLU	CA-C	-7.96	1.43	1.52
9	i5	21	ARG	C-O	-7.96	1.14	1.24
10	k5	370	GLU	C-O	-7.96	1.13	1.24
10	j5	715	ALA	CA-C	-7.96	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	w7	7	VAL	C-O	-7.96	1.15	1.24
10	j5	701	ASP	C-O	-7.95	1.14	1.24
9	z7	7	VAL	C-O	-7.95	1.15	1.24
8	G5	51	VAL	C-O	-7.94	1.14	1.24
4	M3	209	TYR	C-O	-7.94	1.15	1.24
10	k5	972	GLY	C-O	-7.94	1.13	1.24
4	M1	209	TYR	C-O	-7.94	1.15	1.24
4	M4	209	TYR	C-O	-7.94	1.15	1.24
10	k5	891	ALA	C-O	-7.94	1.14	1.23
4	M8	209	TYR	C-O	-7.94	1.15	1.24
4	MA	209	TYR	C-O	-7.94	1.15	1.24
4	M9	209	TYR	C-O	-7.94	1.15	1.24
10	k5	1036	VAL	C-O	-7.94	1.14	1.24
8	o7	52	LYS	CA-C	-7.93	1.42	1.52
1	J7	67	ARG	C-O	-7.93	1.13	1.24
10	k5	893	ASN	N-CA	-7.93	1.36	1.46
4	M3	209	TYR	CA-C	-7.93	1.42	1.52
8	o7	56	ASP	CA-C	-7.93	1.42	1.52
8	u7	56	ASP	CA-C	-7.93	1.42	1.52
4	M9	157	PHE	CA-C	-7.92	1.44	1.52
10	k5	346	GLU	C-O	-7.92	1.12	1.23
9	z5	21	ARG	C-O	-7.92	1.14	1.24
10	j5	678	VAL	CA-CB	-7.92	1.44	1.54
10	k5	678	VAL	CA-CB	-7.92	1.44	1.54
10	j5	891	ALA	C-O	-7.92	1.14	1.23
10	k5	894	TYR	N-CA	-7.92	1.40	1.46
10	j5	902	ASN	CA-C	-7.91	1.43	1.53
9	z5	20	GLY	CA-C	-7.91	1.40	1.51
9	w7	48	GLY	C-O	-7.91	1.15	1.24
10	j5	347	PHE	C-O	-7.91	1.13	1.24
10	j5	742	GLY	C-O	-7.91	1.13	1.23
10	j5	506	LYS	C-O	-7.90	1.14	1.24
10	k5	902	ASN	CA-C	-7.90	1.43	1.53
4	MA	209	TYR	CA-C	-7.90	1.42	1.52
8	c7	122	PRO	C-O	-7.90	1.14	1.23
8	u7	52	LYS	CA-C	-7.90	1.42	1.52
4	M9	209	TYR	CA-C	-7.90	1.42	1.52
4	M1	209	TYR	CA-C	-7.90	1.42	1.52
9	w7	5	PHE	C-O	-7.89	1.14	1.24
10	k5	715	ALA	CA-C	-7.89	1.42	1.52
8	A5	51	VAL	C-O	-7.89	1.14	1.24
9	z5	24	GLN	CA-C	-7.89	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M8	157	PHE	CA-C	-7.89	1.44	1.52
4	M4	209	TYR	CA-C	-7.89	1.42	1.52
10	j5	936	LYS	CA-C	-7.89	1.42	1.52
10	k5	701	ASP	C-O	-7.88	1.14	1.24
10	k5	936	LYS	CA-C	-7.88	1.42	1.52
10	k5	743	VAL	N-CA	-7.88	1.37	1.46
1	D7	67	ARG	C-O	-7.88	1.13	1.24
9	z7	5	PHE	C-O	-7.88	1.14	1.24
9	i5	24	GLN	CA-C	-7.88	1.41	1.52
10	j5	874	ARG	C-O	-7.88	1.15	1.24
9	z7	48	GLY	C-O	-7.87	1.15	1.24
10	j5	483	PHE	C-O	-7.87	1.13	1.24
10	k5	301	TYR	CA-C	-7.87	1.42	1.52
10	k5	1128	VAL	C-O	-7.87	1.15	1.24
10	k5	483	PHE	C-O	-7.87	1.13	1.24
9	w7	41	GLN	CA-C	-7.87	1.42	1.52
10	j5	274	MET	CA-C	-7.87	1.45	1.53
8	A5	60	GLN	CA-C	-7.87	1.41	1.52
4	M8	209	TYR	CA-C	-7.87	1.42	1.52
10	j5	457	THR	CA-C	-7.86	1.42	1.52
10	k5	457	THR	CA-C	-7.86	1.42	1.52
10	k5	870	GLU	CA-C	-7.86	1.42	1.52
10	j5	346	GLU	C-O	-7.86	1.12	1.23
10	j5	743	VAL	N-CA	-7.86	1.37	1.46
8	i7	122	PRO	C-O	-7.86	1.14	1.23
9	z7	41	GLN	CA-C	-7.86	1.42	1.52
10	k5	742	GLY	C-O	-7.86	1.13	1.23
8	G5	53	GLN	CA-C	-7.86	1.42	1.52
10	j5	650	ASP	CA-CB	7.86	1.67	1.53
10	k5	586	LEU	C-O	-7.85	1.12	1.23
4	MA	157	PHE	CA-C	-7.85	1.44	1.52
8	A5	53	GLN	CA-C	-7.85	1.42	1.52
10	k5	823	TYR	CA-C	-7.85	1.44	1.52
10	k5	650	ASP	CA-CB	7.85	1.67	1.53
8	G5	60	GLN	CA-C	-7.84	1.41	1.52
4	M4	157	PHE	CA-C	-7.84	1.44	1.52
10	j5	880	THR	C-O	-7.84	1.14	1.24
10	j5	950	PRO	C-O	-7.84	1.14	1.23
10	k5	539	LYS	CA-C	-7.83	1.43	1.52
10	k5	874	ARG	C-O	-7.82	1.15	1.24
11	a9	629	LYS	CA-C	-7.82	1.42	1.52
11	aA	629	LYS	CA-C	-7.82	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	453	PRO	C-O	-7.82	1.14	1.23
10	j5	698	GLY	CA-C	-7.82	1.42	1.52
10	k5	347	PHE	C-O	-7.82	1.13	1.24
10	k5	698	GLY	CA-C	-7.82	1.42	1.52
10	j5	1128	VAL	C-O	-7.81	1.15	1.24
10	k5	274	MET	CA-C	-7.81	1.45	1.53
10	j5	539	LYS	CA-C	-7.81	1.43	1.52
4	M3	157	PHE	CA-C	-7.80	1.44	1.52
10	j5	301	TYR	CA-C	-7.80	1.42	1.52
10	j5	894	TYR	N-CA	-7.80	1.40	1.46
4	M1	157	PHE	CA-C	-7.80	1.44	1.52
10	k5	453	PRO	C-O	-7.80	1.14	1.23
10	j5	586	LEU	C-O	-7.79	1.12	1.23
10	k5	950	PRO	C-O	-7.79	1.14	1.23
1	L5	10	ASN	C-O	-7.79	1.14	1.24
10	j5	823	TYR	CA-C	-7.78	1.44	1.52
10	j5	818	GLN	C-O	-7.78	1.14	1.24
10	k5	540	LEU	CA-C	-7.78	1.43	1.53
10	j5	624	CYS	CA-C	-7.78	1.42	1.52
11	a9	776	TYR	N-CA	-7.78	1.36	1.46
8	E5	106	GLU	C-O	-7.78	1.14	1.24
10	j5	402	ILE	C-O	-7.77	1.14	1.24
10	k5	881	VAL	C-O	-7.77	1.14	1.24
10	k5	880	THR	C-O	-7.77	1.14	1.24
10	j5	897	SER	CA-CB	-7.77	1.41	1.53
10	k5	402	ILE	C-O	-7.76	1.15	1.24
10	j5	881	VAL	C-O	-7.76	1.14	1.24
10	j5	480	GLU	C-O	-7.76	1.13	1.23
10	k5	480	GLU	C-O	-7.76	1.13	1.23
1	F5	10	ASN	C-O	-7.75	1.14	1.24
8	c7	113	LYS	CA-C	-7.75	1.42	1.52
10	j5	870	GLU	CA-C	-7.75	1.42	1.52
10	j5	1093	VAL	CA-C	-7.75	1.43	1.52
10	k5	541	THR	CA-C	-7.75	1.42	1.52
11	aA	776	TYR	N-CA	-7.75	1.36	1.46
10	j5	426	LEU	CA-C	-7.75	1.42	1.52
10	j5	568	ILE	CA-C	-7.75	1.41	1.52
8	c7	133	MET	C-O	-7.75	1.14	1.24
8	K5	106	GLU	C-O	-7.75	1.14	1.24
10	j5	504	ASP	N-CA	-7.75	1.36	1.46
10	k5	299	ALA	C-O	-7.75	1.14	1.24
10	k5	504	ASP	N-CA	-7.75	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	z7	42	GLN	CA-C	-7.75	1.42	1.52
3	H2	77	ARG	CA-C	-7.74	1.42	1.52
3	H6	77	ARG	CA-C	-7.74	1.42	1.52
10	j5	824	PRO	CA-C	-7.74	1.43	1.52
10	k5	824	PRO	CA-C	-7.74	1.43	1.52
10	j5	441	ASP	CA-C	-7.74	1.42	1.52
10	j5	649	PHE	CA-C	-7.74	1.42	1.52
10	j5	612	ILE	C-O	-7.74	1.14	1.24
10	k5	612	ILE	C-O	-7.74	1.14	1.24
10	k5	624	CYS	CA-C	-7.73	1.42	1.52
4	M8	60	LYS	CA-C	-7.73	1.42	1.52
4	M4	60	LYS	CA-C	-7.73	1.42	1.52
10	k5	676	GLU	C-O	-7.73	1.13	1.24
10	j5	19	THR	C-O	-7.73	1.14	1.23
10	k5	897	SER	CA-CB	-7.72	1.41	1.53
10	k5	639	THR	C-O	-7.72	1.14	1.23
10	k5	649	PHE	CA-C	-7.71	1.42	1.52
1	D7	76	ARG	N-CA	-7.71	1.37	1.46
9	z7	9	ALA	C-O	-7.71	1.14	1.23
9	w7	42	GLN	CA-C	-7.71	1.42	1.52
10	j5	541	THR	CA-C	-7.71	1.42	1.52
1	J7	76	ARG	N-CA	-7.71	1.37	1.46
10	k5	862	LEU	N-CA	-7.71	1.36	1.46
10	j5	540	LEU	CA-C	-7.71	1.43	1.53
10	j5	862	LEU	N-CA	-7.71	1.36	1.46
10	j5	464	GLN	CA-CB	-7.70	1.44	1.54
10	j5	834	LYS	CA-C	-7.70	1.41	1.52
10	k5	464	GLN	CA-CB	-7.70	1.44	1.54
8	i7	113	LYS	CA-C	-7.70	1.42	1.52
10	j5	299	ALA	C-O	-7.70	1.15	1.24
10	j5	602	GLU	C-O	-7.70	1.13	1.24
10	k5	343	TYR	CA-C	-7.70	1.41	1.52
10	k5	602	GLU	C-O	-7.70	1.13	1.24
9	w7	9	ALA	C-O	-7.70	1.14	1.23
10	k5	818	GLN	C-O	-7.70	1.15	1.24
10	k5	1093	VAL	CA-C	-7.70	1.43	1.52
4	MA	60	LYS	CA-C	-7.69	1.42	1.52
10	j5	676	GLU	C-O	-7.69	1.13	1.24
4	M9	60	LYS	CA-C	-7.69	1.42	1.52
10	j5	343	TYR	CA-C	-7.69	1.41	1.52
4	M3	60	LYS	CA-C	-7.69	1.42	1.52
10	k5	349	GLN	CA-C	-7.69	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	y7	44	ILE	C-O	-7.69	1.15	1.24
4	M1	60	LYS	CA-C	-7.69	1.42	1.52
10	j5	296	VAL	C-O	-7.68	1.15	1.24
10	k5	426	LEU	CA-C	-7.68	1.42	1.52
9	w7	48	GLY	CA-C	-7.68	1.43	1.51
10	j5	1136	ILE	C-O	-7.68	1.16	1.24
10	k5	1136	ILE	C-O	-7.68	1.16	1.24
8	i7	133	MET	C-O	-7.68	1.14	1.24
10	k5	19	THR	C-O	-7.68	1.14	1.23
10	k5	851	HIS	C-O	-7.68	1.13	1.24
10	j5	430	ALA	C-O	-7.68	1.14	1.24
10	k5	441	ASP	CA-C	-7.67	1.43	1.52
9	z7	48	GLY	CA-C	-7.67	1.43	1.51
10	j5	502	GLY	C-O	-7.67	1.09	1.23
10	j5	851	HIS	C-O	-7.67	1.14	1.24
10	k5	502	GLY	C-O	-7.67	1.09	1.23
10	j5	425	ASN	C-O	-7.67	1.14	1.24
10	k5	834	LYS	CA-C	-7.67	1.42	1.52
10	j5	629	TYR	CA-C	-7.66	1.43	1.52
10	k5	629	TYR	CA-C	-7.66	1.43	1.52
9	i5	34	TYR	C-O	-7.65	1.14	1.24
10	k5	350	PRO	C-O	-7.65	1.14	1.24
10	j5	1002	ARG	C-O	-7.64	1.15	1.24
10	k5	1002	ARG	C-O	-7.64	1.15	1.24
10	j5	346	GLU	CA-C	-7.64	1.42	1.52
10	k5	346	GLU	CA-C	-7.64	1.42	1.52
9	x7	44	ILE	C-O	-7.64	1.15	1.24
10	j5	639	THR	C-O	-7.63	1.14	1.23
10	k5	296	VAL	C-O	-7.63	1.15	1.24
10	j5	471	PRO	CA-CB	-7.63	1.43	1.53
10	j5	620	PRO	N-CA	-7.63	1.39	1.47
10	k5	620	PRO	N-CA	-7.63	1.39	1.47
10	k5	793	SER	CA-C	-7.63	1.42	1.52
1	h7	50	THR	C-O	-7.63	1.15	1.24
10	j5	302	ARG	C-O	-7.63	1.14	1.24
8	a7	15	ALA	CA-C	-7.63	1.43	1.53
11	a9	354	VAL	C-N	7.62	1.44	1.33
11	aA	354	VAL	C-N	7.62	1.44	1.33
10	j5	618	TRP	C-O	-7.62	1.13	1.24
10	j5	815	TYR	C-O	-7.62	1.15	1.24
10	k5	618	TRP	C-O	-7.62	1.13	1.24
10	k5	815	TYR	C-O	-7.62	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	162	TRP	C-O	-7.62	1.15	1.24
10	k5	568	ILE	CA-C	-7.62	1.41	1.52
1	h7	51	ILE	C-O	-7.62	1.15	1.24
10	k5	886	PHE	C-O	-7.61	1.14	1.24
10	j5	886	PHE	C-O	-7.61	1.14	1.24
10	j5	955	LEU	C-O	-7.61	1.14	1.24
10	k5	955	LEU	C-O	-7.61	1.14	1.24
10	j5	349	GLN	CA-C	-7.61	1.43	1.52
10	j5	555	ALA	C-O	-7.61	1.14	1.23
10	j5	640	TYR	C-O	-7.61	1.14	1.24
10	k5	640	TYR	C-O	-7.61	1.14	1.24
10	k5	265	SER	C-O	-7.60	1.14	1.24
4	M4	61	ASN	C-O	-7.60	1.15	1.24
4	M3	61	ASN	C-O	-7.60	1.15	1.24
4	M1	61	ASN	C-O	-7.60	1.15	1.24
10	k5	430	ALA	C-O	-7.60	1.14	1.24
9	w7	67	VAL	CA-C	-7.59	1.43	1.52
10	k5	441	ASP	CA-CB	-7.59	1.41	1.53
10	k5	555	ALA	C-O	-7.59	1.14	1.23
1	b7	50	THR	C-O	-7.59	1.15	1.24
10	j5	793	SER	CA-C	-7.58	1.43	1.52
10	k5	403	ASP	CA-C	-7.58	1.43	1.52
10	k5	776	PHE	C-O	-7.58	1.14	1.24
10	j5	265	SER	C-O	-7.58	1.14	1.24
10	k5	302	ARG	C-O	-7.58	1.14	1.24
4	M4	222	ARG	C-O	-7.58	1.15	1.24
10	k5	520	ARG	N-CA	-7.57	1.36	1.46
10	j5	1003	GLN	C-O	-7.57	1.15	1.24
1	b7	51	ILE	C-O	-7.57	1.15	1.24
10	j5	600	VAL	CA-C	-7.57	1.41	1.52
10	k5	600	VAL	CA-C	-7.57	1.41	1.52
4	MA	61	ASN	C-O	-7.57	1.15	1.24
4	M9	61	ASN	C-O	-7.57	1.15	1.24
10	j5	350	PRO	C-O	-7.56	1.14	1.24
10	j5	441	ASP	CA-CB	-7.56	1.41	1.53
10	k5	604	VAL	C-O	-7.56	1.14	1.24
10	k5	471	PRO	CA-CB	-7.56	1.43	1.53
10	k5	843	ASN	C-O	-7.56	1.15	1.24
9	z5	34	TYR	C-O	-7.56	1.14	1.24
10	k5	478	PRO	C-O	-7.55	1.13	1.23
8	E5	94	TYR	CA-C	-7.55	1.43	1.52
10	j5	469	GLN	C-O	-7.55	1.14	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	597	GLU	CA-C	-7.55	1.42	1.52
10	k5	469	GLN	C-O	-7.55	1.14	1.23
10	k5	597	GLU	CA-C	-7.55	1.42	1.52
8	E5	97	VAL	C-O	-7.55	1.14	1.24
8	u7	48	GLU	CA-C	-7.54	1.41	1.52
10	j5	611	GLU	CA-C	-7.54	1.43	1.52
10	k5	845	ALA	CA-C	-7.54	1.41	1.52
10	k5	425	ASN	C-O	-7.54	1.14	1.24
8	o7	48	GLU	CA-C	-7.53	1.41	1.52
4	M8	222	ARG	C-O	-7.53	1.15	1.24
10	j5	162	TRP	C-O	-7.53	1.15	1.24
10	k5	159	ASP	CA-C	-7.53	1.43	1.52
9	z7	67	VAL	CA-C	-7.52	1.43	1.52
10	j5	159	ASP	CA-C	-7.52	1.43	1.52
4	M8	61	ASN	C-O	-7.52	1.15	1.24
8	A5	52	LYS	CA-C	-7.52	1.43	1.52
10	j5	761	ARG	C-O	-7.52	1.15	1.24
10	j5	834	LYS	N-CA	-7.52	1.36	1.46
10	j5	871	GLU	CA-C	-7.52	1.43	1.52
10	k5	718	MET	CA-C	-7.52	1.43	1.52
10	k5	761	ARG	C-O	-7.52	1.15	1.24
10	j5	584	GLN	C-O	-7.52	1.15	1.24
10	j5	781	ALA	C-O	-7.52	1.14	1.24
10	j5	520	ARG	N-CA	-7.51	1.36	1.46
10	k5	838	GLY	C-O	-7.51	1.12	1.24
10	j5	556	GLY	C-O	-7.51	1.15	1.23
10	k5	834	LYS	N-CA	-7.51	1.36	1.46
10	j5	776	PHE	C-O	-7.51	1.14	1.24
10	k5	770	ALA	C-O	-7.51	1.14	1.24
10	j5	845	ALA	CA-C	-7.50	1.41	1.52
10	j5	843	ASN	C-O	-7.50	1.15	1.24
10	k5	871	GLU	CA-C	-7.50	1.43	1.52
10	k5	261	ILE	CA-C	-7.50	1.43	1.52
4	MA	222	ARG	C-O	-7.50	1.15	1.24
4	M9	222	ARG	C-O	-7.50	1.15	1.24
10	j5	403	ASP	CA-C	-7.50	1.43	1.52
8	g7	15	ALA	CA-C	-7.50	1.43	1.53
10	j5	604	VAL	C-O	-7.49	1.14	1.24
10	k5	630	ILE	CA-CB	-7.49	1.43	1.54
10	k5	996	ALA	C-O	-7.49	1.15	1.24
10	k5	578	ARG	N-CA	-7.49	1.37	1.46
9	i5	46	LYS	C-O	-7.49	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	856	ARG	CA-C	-7.49	1.43	1.52
10	j5	578	ARG	N-CA	-7.49	1.37	1.46
10	j5	795	LEU	CA-C	-7.49	1.43	1.52
10	k5	795	LEU	CA-C	-7.49	1.43	1.52
10	k5	1003	GLN	C-O	-7.49	1.15	1.24
8	K5	94	TYR	CA-C	-7.49	1.43	1.52
10	k5	584	GLN	C-O	-7.49	1.15	1.24
10	j5	822	ARG	CA-C	-7.48	1.43	1.52
10	k5	822	ARG	CA-C	-7.48	1.43	1.52
4	M3	222	ARG	C-O	-7.48	1.15	1.24
9	z5	46	LYS	C-O	-7.48	1.14	1.24
4	M1	222	ARG	C-O	-7.48	1.15	1.24
8	G5	52	LYS	CA-C	-7.48	1.43	1.52
10	j5	478	PRO	C-O	-7.48	1.13	1.23
10	k5	812	SER	CA-C	-7.48	1.42	1.52
10	j5	812	SER	CA-C	-7.48	1.42	1.52
9	i5	31	LEU	C-O	-7.47	1.14	1.24
8	c7	127	ALA	C-O	-7.47	1.14	1.24
10	j5	838	GLY	C-O	-7.47	1.13	1.24
10	j5	849	LYS	C-O	-7.46	1.15	1.24
8	i7	127	ALA	C-O	-7.46	1.14	1.24
9	z7	27	PHE	C-O	-7.46	1.15	1.24
9	z5	31	LEU	C-O	-7.46	1.14	1.24
10	j5	655	LYS	CA-CB	-7.46	1.43	1.54
10	k5	655	LYS	CA-CB	-7.46	1.43	1.54
10	k5	773	VAL	N-CA	-7.45	1.36	1.46
10	j5	784	ILE	C-O	-7.45	1.16	1.24
10	j5	996	ALA	C-O	-7.45	1.15	1.24
11	a9	58	GLY	N-CA	7.45	1.55	1.45
11	aA	58	GLY	N-CA	7.45	1.55	1.45
10	j5	885	GLN	C-O	-7.45	1.15	1.24
1	b7	48	ALA	CA-C	-7.45	1.43	1.52
9	y7	4	TYR	CA-C	-7.45	1.43	1.52
9	z5	4	TYR	CA-C	-7.45	1.43	1.52
9	i5	4	TYR	CA-C	-7.45	1.43	1.52
10	j5	541	THR	C-O	-7.45	1.14	1.24
10	j5	773	VAL	N-CA	-7.45	1.36	1.46
8	I5	10	ASN	C-O	-7.44	1.14	1.24
10	j5	261	ILE	CA-C	-7.44	1.43	1.52
10	j5	630	ILE	CA-CB	-7.44	1.43	1.54
10	k5	611	GLU	CA-C	-7.44	1.43	1.52
10	j5	653	SER	CA-C	-7.44	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	856	ARG	CA-C	-7.44	1.43	1.52
10	j5	847	LEU	CA-C	-7.44	1.43	1.52
10	k5	847	LEU	CA-C	-7.44	1.43	1.52
10	j5	712	ARG	C-O	-7.44	1.15	1.23
1	h7	48	ALA	CA-C	-7.44	1.43	1.52
8	c7	116	TYR	CA-C	-7.44	1.43	1.52
10	j5	672	GLU	CA-C	-7.43	1.43	1.52
10	j5	7	SER	C-O	-7.43	1.13	1.24
3	H6	84	ARG	CA-CB	-7.43	1.41	1.53
10	j5	613	PHE	CA-C	-7.43	1.43	1.52
10	k5	653	SER	CA-C	-7.42	1.42	1.52
10	k5	613	PHE	CA-C	-7.42	1.43	1.52
10	k5	672	GLU	CA-C	-7.42	1.43	1.52
10	k5	885	GLN	C-O	-7.42	1.15	1.24
8	K5	97	VAL	C-O	-7.42	1.14	1.24
10	j5	718	MET	CA-C	-7.42	1.43	1.52
10	j5	637	ARG	CZ-NH2	-7.41	1.23	1.33
10	j5	770	ALA	C-O	-7.41	1.14	1.24
10	j5	779	ASP	C-O	-7.41	1.15	1.24
10	k5	499	ALA	C-O	-7.41	1.15	1.24
10	j5	904	PHE	C-O	-7.41	1.13	1.23
10	j5	721	LYS	N-CA	-7.41	1.37	1.46
10	j5	782	SER	C-O	-7.41	1.14	1.24
10	k5	782	SER	C-O	-7.41	1.14	1.24
8	E5	105	GLU	C-O	-7.40	1.15	1.24
10	k5	606	ALA	CA-C	-7.40	1.43	1.52
10	k5	848	ILE	C-O	-7.40	1.15	1.24
10	j5	683	ARG	CZ-NH1	-7.40	1.22	1.32
10	k5	704	THR	CB-CG2	-7.40	1.28	1.52
10	j5	873	GLY	C-O	-7.40	1.15	1.23
10	k5	849	LYS	C-O	-7.39	1.15	1.24
9	w7	27	PHE	C-O	-7.39	1.15	1.24
10	k5	896	ASN	CA-C	-7.39	1.43	1.52
10	k5	781	ALA	C-O	-7.39	1.14	1.24
10	k5	860	LYS	C-O	-7.39	1.14	1.24
8	K5	112	VAL	C-O	-7.39	1.14	1.24
3	H2	84	ARG	CA-CB	-7.38	1.41	1.53
10	k5	456	ILE	CA-C	-7.38	1.43	1.52
10	k5	712	ARG	C-O	-7.38	1.15	1.23
10	k5	683	ARG	CZ-NH1	-7.38	1.22	1.32
10	j5	704	THR	CB-CG2	-7.38	1.28	1.52
10	k5	652	ALA	N-CA	-7.38	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	499	ALA	C-O	-7.37	1.15	1.24
10	j5	896	ASN	CA-C	-7.37	1.43	1.52
10	k5	830	GLU	N-CA	-7.37	1.37	1.46
4	M8	12	GLY	N-CA	-7.37	1.37	1.45
10	k5	541	THR	C-O	-7.37	1.14	1.24
10	k5	904	PHE	C-O	-7.37	1.13	1.23
10	k5	298	ARG	C-O	-7.37	1.14	1.24
8	C5	10	ASN	C-O	-7.37	1.14	1.24
10	j5	642	ARG	CA-C	-7.37	1.42	1.52
10	j5	848	ILE	C-O	-7.37	1.15	1.24
4	M4	37	GLU	C-O	-7.37	1.14	1.24
10	k5	940	ALA	CA-C	-7.37	1.43	1.52
10	j5	456	ILE	CA-C	-7.36	1.43	1.52
10	j5	783	TYR	CA-C	-7.36	1.42	1.52
10	k5	783	TYR	CA-C	-7.36	1.42	1.52
10	j5	652	ALA	N-CA	-7.36	1.36	1.46
10	k5	637	ARG	CZ-NH2	-7.36	1.23	1.33
10	j5	860	LYS	C-O	-7.36	1.14	1.24
8	i7	116	TYR	CA-C	-7.36	1.43	1.52
10	k5	556	GLY	C-O	-7.35	1.15	1.23
10	j5	606	ALA	CA-C	-7.35	1.43	1.52
10	j5	528	GLU	C-O	-7.35	1.15	1.24
10	j5	609	ARG	C-O	-7.35	1.14	1.24
11	a9	579	PHE	C-O	-7.35	1.15	1.24
11	aA	579	PHE	C-O	-7.35	1.15	1.24
10	k5	779	ASP	C-O	-7.34	1.15	1.24
4	M8	37	GLU	C-O	-7.34	1.14	1.24
10	k5	721	LYS	N-CA	-7.34	1.37	1.46
11	a9	823	ILE	CA-C	-7.34	1.46	1.52
10	k5	873	GLY	C-O	-7.34	1.15	1.23
4	M4	12	GLY	N-CA	-7.33	1.37	1.45
8	E5	112	VAL	C-O	-7.33	1.14	1.24
10	j5	728	PRO	C-O	-7.33	1.15	1.24
4	M3	37	GLU	C-O	-7.33	1.14	1.24
4	M1	37	GLU	C-O	-7.33	1.14	1.24
8	K5	130	VAL	C-O	-7.33	1.15	1.24
8	E5	129	GLY	C-O	-7.32	1.15	1.23
10	j5	261	ILE	C-O	-7.32	1.15	1.24
10	j5	523	PRO	C-O	-7.32	1.14	1.24
10	k5	564	VAL	CA-C	-7.32	1.43	1.52
11	a9	451	PHE	C-O	-7.32	1.15	1.24
11	aA	451	PHE	C-O	-7.32	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M8	70	SER	CA-C	-7.32	1.44	1.52
11	a9	586	LEU	C-O	-7.32	1.15	1.24
10	j5	526	MET	C-O	-7.32	1.13	1.23
10	j5	881	VAL	CA-C	-7.32	1.46	1.52
10	j5	454	GLN	CA-C	-7.31	1.43	1.52
10	j5	830	GLU	N-CA	-7.31	1.37	1.46
9	x7	4	TYR	CA-C	-7.30	1.44	1.52
10	j5	940	ALA	CA-C	-7.30	1.43	1.52
10	k5	609	ARG	C-O	-7.30	1.14	1.24
9	z5	29	THR	C-O	-7.30	1.14	1.24
10	j5	298	ARG	C-O	-7.30	1.14	1.24
10	k5	28	ILE	C-O	-7.29	1.15	1.24
8	K5	129	GLY	C-O	-7.29	1.15	1.23
10	k5	474	ALA	CA-C	-7.29	1.42	1.52
8	K5	105	GLU	C-O	-7.28	1.15	1.24
9	w7	4	TYR	C-O	-7.28	1.15	1.23
10	k5	528	GLU	C-O	-7.28	1.15	1.24
8	A5	53	GLN	C-O	-7.27	1.15	1.24
10	k5	7	SER	C-O	-7.27	1.14	1.24
10	j5	1005	LEU	C-O	-7.27	1.15	1.24
10	k5	642	ARG	CA-C	-7.27	1.42	1.52
10	k5	454	GLN	CA-C	-7.27	1.43	1.52
9	z7	4	TYR	C-O	-7.27	1.15	1.23
10	k5	435	ASN	C-O	-7.27	1.12	1.23
1	F5	3	ASP	CA-C	-7.27	1.43	1.53
10	k5	728	PRO	C-O	-7.26	1.15	1.24
10	j5	996	ALA	CA-C	-7.26	1.43	1.52
4	M3	40	GLN	C-O	-7.26	1.13	1.23
8	G5	53	GLN	C-O	-7.26	1.15	1.24
4	M1	40	GLN	C-O	-7.26	1.13	1.23
10	j5	1004	VAL	C-O	-7.26	1.16	1.24
10	k5	256	LEU	C-O	-7.26	1.14	1.23
10	k5	1004	VAL	C-O	-7.26	1.16	1.24
10	j5	659	GLY	CA-C	-7.26	1.43	1.52
10	k5	659	GLY	CA-C	-7.26	1.43	1.52
4	M4	40	GLN	C-O	-7.26	1.13	1.23
4	M4	70	SER	CA-C	-7.26	1.44	1.52
4	MA	37	GLU	C-O	-7.25	1.14	1.24
4	M4	34	ASP	C-O	-7.25	1.14	1.24
9	i5	29	THR	C-O	-7.25	1.14	1.24
4	M9	37	GLU	C-O	-7.25	1.14	1.24
4	M3	34	ASP	C-O	-7.25	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M3	70	SER	CA-C	-7.25	1.44	1.52
1	L5	3	ASP	CA-C	-7.25	1.43	1.53
10	k5	526	MET	C-O	-7.25	1.14	1.23
10	k5	682	GLU	CA-CB	-7.25	1.42	1.53
10	k5	794	ARG	C-O	-7.25	1.15	1.24
4	M8	34	ASP	C-O	-7.25	1.14	1.24
4	M1	34	ASP	C-O	-7.25	1.14	1.24
4	M1	70	SER	CA-C	-7.25	1.44	1.52
11	aA	586	LEU	C-O	-7.25	1.15	1.24
10	j5	28	ILE	C-O	-7.25	1.15	1.24
10	j5	933	ALA	CA-C	-7.25	1.42	1.52
10	k5	261	ILE	C-O	-7.25	1.15	1.24
4	MA	70	SER	CA-C	-7.25	1.44	1.52
8	E5	130	VAL	C-O	-7.25	1.15	1.24
10	k5	842	LYS	CA-CB	-7.25	1.41	1.53
4	M9	70	SER	CA-C	-7.25	1.44	1.52
10	j5	750	ARG	CZ-NH1	-7.25	1.22	1.32
10	k5	6	THR	C-O	-7.25	1.15	1.23
10	k5	750	ARG	CZ-NH1	-7.25	1.22	1.32
4	MA	12	GLY	N-CA	-7.24	1.37	1.45
4	M3	12	GLY	N-CA	-7.24	1.37	1.45
4	M8	53	LEU	CA-C	-7.24	1.43	1.52
4	M9	12	GLY	N-CA	-7.24	1.37	1.45
4	M1	12	GLY	N-CA	-7.24	1.37	1.45
8	A5	58	LEU	C-O	-7.24	1.15	1.24
10	k5	881	VAL	CA-C	-7.24	1.46	1.52
8	g7	12	ASP	N-CA	-7.24	1.36	1.46
10	j5	738	TYR	C-O	-7.24	1.14	1.24
10	j5	799	GLU	CA-CB	-7.24	1.42	1.53
10	k5	799	GLU	CA-CB	-7.24	1.42	1.53
11	aA	823	ILE	CA-C	-7.24	1.46	1.53
8	a7	12	ASP	N-CA	-7.23	1.36	1.46
10	j5	6	THR	C-O	-7.23	1.15	1.23
4	M4	53	LEU	CA-C	-7.22	1.43	1.52
8	G5	58	LEU	C-O	-7.22	1.15	1.24
10	j5	739	VAL	CA-C	-7.22	1.43	1.52
10	k5	996	ALA	CA-C	-7.22	1.43	1.52
4	M3	53	LEU	CA-C	-7.22	1.43	1.52
4	M1	53	LEU	CA-C	-7.22	1.43	1.52
10	j5	794	ARG	C-O	-7.22	1.15	1.24
4	M8	40	GLN	C-O	-7.22	1.13	1.23
10	j5	435	ASN	C-O	-7.22	1.12	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	MA	40	GLN	C-O	-7.21	1.13	1.23
10	j5	428	VAL	C-O	-7.21	1.15	1.24
4	M9	40	GLN	C-O	-7.21	1.13	1.23
10	j5	667	SER	CA-C	-7.21	1.43	1.53
10	j5	564	VAL	CA-C	-7.21	1.43	1.52
10	j5	342	LEU	C-O	-7.20	1.15	1.24
10	j5	682	GLU	CA-CB	-7.20	1.42	1.53
10	k5	713	GLY	C-O	-7.20	1.14	1.24
10	k5	933	ALA	CA-C	-7.20	1.42	1.52
10	k5	1005	LEU	C-O	-7.20	1.15	1.24
10	j5	481	ILE	C-O	-7.20	1.15	1.24
8	I5	11	ALA	CA-C	-7.20	1.43	1.52
10	j5	641	ASP	CB-CG	-7.20	1.34	1.52
1	h7	45	SER	CA-C	-7.19	1.43	1.52
10	j5	842	LYS	CA-CB	-7.19	1.42	1.53
11	a9	578	MET	C-O	-7.19	1.15	1.24
11	aA	578	MET	C-O	-7.19	1.15	1.24
10	j5	470	HIS	C-O	-7.19	1.14	1.23
10	j5	534	GLY	C-O	-7.19	1.14	1.24
10	k5	470	HIS	C-O	-7.19	1.14	1.23
10	k5	534	GLY	C-O	-7.19	1.14	1.24
10	j5	492	ILE	CA-CB	-7.19	1.46	1.54
10	k5	492	ILE	CA-CB	-7.19	1.46	1.54
10	j5	256	LEU	C-O	-7.18	1.14	1.23
10	j5	773	VAL	CA-CB	-7.18	1.45	1.54
10	k5	773	VAL	CA-CB	-7.18	1.45	1.54
4	MA	53	LEU	CA-C	-7.18	1.43	1.52
10	k5	1090	ALA	C-O	-7.18	1.15	1.24
4	M9	53	LEU	CA-C	-7.18	1.43	1.52
8	o7	57	GLN	C-O	-7.18	1.15	1.24
4	MA	34	ASP	C-O	-7.17	1.15	1.24
4	M9	34	ASP	C-O	-7.17	1.15	1.24
10	k5	342	LEU	C-O	-7.17	1.15	1.24
10	k5	667	SER	CA-C	-7.17	1.43	1.53
10	j5	463	THR	C-O	-7.16	1.14	1.24
10	k5	463	THR	C-O	-7.16	1.14	1.24
4	M4	57	THR	CA-C	-7.16	1.43	1.52
10	j5	684	TYR	CZ-OH	-7.16	1.23	1.38
4	M3	57	THR	CA-C	-7.16	1.43	1.52
8	a5	12	ASP	C-O	-7.16	1.15	1.24
9	z5	42	GLN	CA-C	-7.16	1.42	1.52
10	j5	741	GLN	CD-OE1	-7.16	1.09	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	523	PRO	C-O	-7.16	1.14	1.24
8	c7	128	GLU	CA-C	-7.16	1.43	1.52
4	M1	57	THR	CA-C	-7.16	1.43	1.52
8	e5	12	ASP	C-O	-7.16	1.15	1.24
10	k5	641	ASP	CB-CG	-7.16	1.34	1.52
1	b7	45	SER	CA-C	-7.15	1.43	1.52
8	C5	11	ALA	CA-C	-7.15	1.43	1.52
10	k5	663	ALA	C-N	-7.15	1.24	1.33
9	i5	42	GLN	CA-C	-7.15	1.42	1.52
1	D7	76	ARG	CA-C	-7.15	1.43	1.52
10	k5	379	PHE	CA-C	-7.14	1.43	1.52
9	z5	63	ALA	CA-C	-7.14	1.44	1.52
10	j5	431	GLN	CA-C	-7.14	1.43	1.53
10	k5	431	GLN	CA-C	-7.14	1.43	1.53
10	j5	713	GLY	C-O	-7.14	1.14	1.24
10	j5	1090	ALA	C-O	-7.14	1.15	1.24
10	k5	481	ILE	C-O	-7.14	1.15	1.24
10	k5	663	ALA	N-CA	-7.14	1.37	1.46
10	j5	379	PHE	CA-C	-7.13	1.43	1.52
10	k5	848	ILE	CA-C	-7.13	1.43	1.52
3	F9	148	VAL	C-O	-7.13	1.16	1.24
10	k5	684	TYR	CZ-OH	-7.13	1.23	1.38
4	MA	57	THR	CA-C	-7.13	1.43	1.52
4	M3	40	GLN	CA-C	-7.13	1.44	1.53
9	i5	63	ALA	CA-C	-7.13	1.44	1.52
10	j5	1124	TYR	CA-C	-7.13	1.43	1.52
10	k5	1124	TYR	CA-C	-7.13	1.43	1.52
4	M8	57	THR	CA-C	-7.13	1.43	1.52
4	M1	40	GLN	CA-C	-7.13	1.44	1.53
10	j5	848	ILE	CA-C	-7.12	1.43	1.52
10	j5	518	ASN	CA-C	-7.12	1.42	1.52
10	j5	883	SER	N-CA	7.12	1.55	1.46
4	MA	40	GLN	CA-C	-7.12	1.44	1.53
10	j5	474	ALA	CA-C	-7.12	1.42	1.52
4	M9	40	GLN	CA-C	-7.12	1.44	1.53
10	j5	381	ILE	CA-CB	-7.12	1.46	1.54
10	k5	448	PRO	CA-C	-7.12	1.43	1.52
10	k5	428	VAL	C-O	-7.11	1.15	1.24
10	k5	400	ALA	CA-C	-7.10	1.43	1.52
10	k5	406	ILE	C-O	-7.10	1.15	1.24
4	M8	40	GLN	CA-C	-7.10	1.44	1.53
10	j5	400	ALA	CA-C	-7.10	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	z5	57	PHE	N-CA	-7.10	1.37	1.46
10	k5	602	GLU	CA-C	-7.10	1.43	1.52
10	j5	448	PRO	CA-C	-7.09	1.43	1.52
10	k5	514	SER	C-O	-7.09	1.14	1.24
10	k5	381	ILE	CA-CB	-7.09	1.46	1.54
10	k5	371	SER	CA-C	-7.09	1.44	1.52
10	j5	514	SER	C-O	-7.09	1.14	1.24
4	M4	40	GLN	CA-C	-7.09	1.44	1.53
8	a5	9	VAL	C-O	-7.09	1.14	1.24
10	j5	371	SER	CA-C	-7.09	1.44	1.52
10	j5	450	ARG	CA-C	-7.09	1.44	1.52
10	j5	645	ASN	CA-C	-7.09	1.43	1.52
10	k5	625	LYS	CA-CB	-7.09	1.41	1.53
10	k5	645	ASN	CA-C	-7.09	1.43	1.52
8	E5	117	ASN	CA-C	-7.08	1.43	1.52
10	k5	450	ARG	CA-C	-7.08	1.44	1.52
8	i7	128	GLU	CA-C	-7.08	1.43	1.52
8	u7	57	GLN	C-O	-7.08	1.15	1.24
9	i5	57	PHE	N-CA	-7.08	1.37	1.46
10	k5	741	GLN	CD-OE1	-7.08	1.10	1.23
10	k5	518	ASN	CA-C	-7.08	1.42	1.52
10	k5	662	ASP	C-O	-7.08	1.14	1.24
8	e5	9	VAL	C-O	-7.08	1.14	1.24
10	j5	763	SER	CA-CB	-7.08	1.41	1.53
10	j5	1127	SER	CA-C	-7.08	1.43	1.52
10	k5	1130	VAL	CA-C	-7.08	1.43	1.52
4	M9	57	THR	CA-C	-7.08	1.43	1.52
4	M4	39	SER	C-O	-7.08	1.14	1.24
11	a9	523	GLN	C-O	-7.08	1.15	1.24
11	aA	523	GLN	C-O	-7.08	1.15	1.24
10	k5	885	GLN	CA-C	-7.07	1.44	1.52
10	k5	579	GLN	C-O	-7.07	1.14	1.23
10	j5	476	ASN	CG-OD1	-7.07	1.10	1.23
10	j5	1130	VAL	CA-C	-7.07	1.43	1.52
10	k5	476	ASN	CG-OD1	-7.07	1.10	1.23
10	j5	917	LYS	C-O	-7.06	1.15	1.24
10	k5	917	LYS	C-O	-7.06	1.15	1.24
1	J7	76	ARG	CA-C	-7.06	1.43	1.52
10	j5	602	GLU	CA-C	-7.06	1.43	1.52
10	j5	663	ALA	N-CA	-7.06	1.37	1.46
11	aA	339	GLU	CA-C	-7.06	1.44	1.52
10	j5	406	ILE	C-O	-7.05	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	691	SER	N-CA	-7.05	1.37	1.46
10	k5	691	SER	N-CA	-7.05	1.37	1.46
10	k5	883	SER	N-CA	7.05	1.55	1.46
10	j5	829	VAL	CA-CB	-7.05	1.45	1.54
10	j5	625	LYS	CA-CB	-7.04	1.42	1.53
10	k5	763	SER	CA-CB	-7.04	1.41	1.53
10	j5	373	ALA	CA-C	-7.04	1.43	1.52
10	j5	971	VAL	C-O	-7.04	1.15	1.24
10	k5	819	PHE	C-O	-7.04	1.13	1.23
4	M8	196	TYR	CA-C	-7.04	1.43	1.52
10	k5	971	VAL	C-O	-7.04	1.15	1.24
10	j5	430	ALA	CA-CB	-7.04	1.43	1.53
8	c7	130	VAL	C-O	-7.04	1.15	1.24
9	z7	54	VAL	C-O	-7.04	1.16	1.24
10	j5	761	ARG	CA-C	-7.03	1.43	1.52
4	MA	196	TYR	CA-C	-7.03	1.43	1.52
10	j5	826	THR	C-O	-7.03	1.14	1.24
10	k5	826	THR	C-O	-7.03	1.14	1.24
4	M9	196	TYR	CA-C	-7.03	1.43	1.52
10	j5	821	ASP	C-O	-7.03	1.14	1.24
10	k5	821	ASP	C-O	-7.03	1.14	1.24
10	j5	663	ALA	C-N	-7.03	1.24	1.33
10	k5	678	VAL	C-O	-7.02	1.15	1.24
10	j5	320	GLU	CA-C	-7.02	1.43	1.52
10	j5	757	GLN	N-CA	-7.02	1.37	1.46
10	j5	678	VAL	C-O	-7.02	1.15	1.24
10	j5	953	LEU	C-O	-7.02	1.15	1.24
10	k5	953	LEU	C-O	-7.02	1.15	1.24
11	a9	339	GLU	CA-C	-7.02	1.44	1.52
10	j5	579	GLN	C-O	-7.01	1.14	1.23
10	j5	662	ASP	C-O	-7.01	1.15	1.24
10	j5	403	ASP	CA-CB	-7.01	1.42	1.53
10	j5	820	HIS	CA-C	-7.01	1.43	1.52
10	k5	403	ASP	CA-CB	-7.01	1.42	1.53
10	k5	583	GLY	C-O	-7.01	1.15	1.23
10	k5	928	MET	C-O	-7.01	1.15	1.23
4	M4	196	TYR	CA-C	-7.01	1.43	1.52
10	j5	698	GLY	C-O	-7.01	1.13	1.24
10	k5	761	ARG	CA-C	-7.01	1.43	1.52
4	M3	196	TYR	CA-C	-7.00	1.43	1.52
10	j5	654	LYS	C-O	-7.00	1.14	1.23
10	k5	654	LYS	C-O	-7.00	1.14	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M1	196	TYR	CA-C	-7.00	1.43	1.52
10	j5	928	MET	C-O	-7.00	1.15	1.23
10	k5	698	GLY	C-O	-7.00	1.13	1.24
10	j5	885	GLN	CA-C	-7.00	1.44	1.52
10	k5	820	HIS	CA-C	-7.00	1.43	1.52
4	MA	39	SER	C-O	-7.00	1.14	1.24
10	k5	1127	SER	CA-C	-7.00	1.43	1.52
8	i7	130	VAL	C-O	-7.00	1.15	1.24
4	M9	39	SER	C-O	-7.00	1.14	1.24
10	j5	819	PHE	C-O	-7.00	1.13	1.23
10	k5	758	ALA	C-O	-7.00	1.13	1.23
10	k5	757	GLN	N-CA	-6.99	1.37	1.46
10	k5	858	GLY	C-O	-6.99	1.13	1.23
4	M3	39	SER	C-O	-6.99	1.14	1.24
4	M4	44	SER	C-O	-6.99	1.15	1.23
10	j5	699	SER	CA-C	-6.99	1.44	1.52
10	k5	699	SER	CA-C	-6.99	1.44	1.52
4	M1	39	SER	C-O	-6.99	1.14	1.24
10	j5	494	PRO	C-O	-6.99	1.14	1.23
10	j5	974	LEU	CA-C	-6.99	1.42	1.52
10	k5	316	VAL	CA-C	-6.99	1.46	1.53
10	k5	494	PRO	C-O	-6.99	1.14	1.23
3	L9	97	LEU	C-O	-6.99	1.16	1.24
4	M8	44	SER	C-O	-6.99	1.15	1.23
10	k5	293	LYS	N-CA	-6.99	1.38	1.46
10	k5	833	PHE	CA-C	-6.99	1.43	1.52
10	j5	875	LEU	N-CA	-6.98	1.38	1.46
10	j5	758	ALA	C-O	-6.98	1.13	1.23
4	M8	58	TYR	CA-C	-6.98	1.44	1.52
10	k5	487	PHE	N-CA	6.98	1.55	1.46
9	w7	34	TYR	C-O	-6.98	1.16	1.24
9	w7	54	VAL	C-O	-6.98	1.16	1.24
10	j5	402	ILE	CA-CB	-6.97	1.45	1.54
10	j5	779	ASP	CA-C	-6.97	1.43	1.52
10	k5	829	VAL	CA-CB	-6.97	1.45	1.54
10	k5	849	LYS	CA-CB	-6.97	1.42	1.53
8	o7	43	LEU	C-O	-6.97	1.15	1.24
4	M8	39	SER	C-O	-6.97	1.14	1.24
8	K5	117	ASN	CA-C	-6.97	1.43	1.52
10	k5	875	LEU	N-CA	-6.97	1.38	1.46
9	z7	67	VAL	N-CA	-6.97	1.38	1.46
10	j5	677	ASP	CA-CB	-6.97	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	430	ALA	CA-CB	-6.97	1.43	1.53
4	MA	44	SER	C-O	-6.96	1.15	1.23
10	j5	714	ASP	C-O	-6.96	1.15	1.24
10	k5	714	ASP	C-O	-6.96	1.15	1.24
4	M9	44	SER	C-O	-6.96	1.15	1.23
10	k5	373	ALA	CA-C	-6.96	1.43	1.52
8	u7	43	LEU	C-O	-6.96	1.15	1.24
4	M3	44	SER	C-O	-6.96	1.15	1.23
4	M1	44	SER	C-O	-6.96	1.15	1.23
10	j5	585	ARG	C-O	-6.96	1.15	1.23
9	w7	67	VAL	N-CA	-6.96	1.38	1.46
10	j5	440	TYR	C-O	-6.95	1.15	1.24
10	k5	440	TYR	C-O	-6.95	1.15	1.24
10	k5	681	TYR	CA-C	-6.95	1.43	1.52
4	M4	58	TYR	CA-C	-6.95	1.44	1.52
10	j5	316	VAL	CA-C	-6.95	1.46	1.53
10	k5	677	ASP	CA-CB	-6.95	1.41	1.53
10	j5	367	ARG	C-O	-6.95	1.15	1.23
10	j5	487	PHE	N-CA	6.95	1.55	1.46
10	k5	367	ARG	C-O	-6.95	1.15	1.23
10	j5	849	LYS	CA-CB	-6.94	1.42	1.53
10	j5	858	GLY	C-O	-6.94	1.13	1.23
10	k5	892	ALA	CA-C	-6.94	1.42	1.52
10	j5	293	LYS	N-CA	-6.94	1.38	1.46
9	z7	25	ASN	C-O	-6.93	1.14	1.23
9	w7	25	ASN	C-O	-6.93	1.14	1.23
10	j5	892	ALA	CA-C	-6.93	1.42	1.52
10	k5	779	ASP	CA-C	-6.93	1.43	1.52
3	LA	97	LEU	C-O	-6.93	1.16	1.24
10	j5	757	GLN	C-O	-6.93	1.13	1.23
10	k5	757	GLN	C-O	-6.93	1.13	1.23
4	M4	42	SER	CA-C	-6.92	1.44	1.52
10	k5	585	ARG	C-O	-6.92	1.15	1.23
10	j5	622	TYR	CA-C	-6.92	1.44	1.52
10	k5	622	TYR	CA-C	-6.92	1.44	1.52
9	z7	34	TYR	C-O	-6.92	1.16	1.24
4	M4	62	LYS	C-O	-6.92	1.15	1.24
10	j5	491	THR	C-O	-6.91	1.15	1.24
10	j5	833	PHE	CA-C	-6.91	1.43	1.52
4	M8	62	LYS	C-O	-6.91	1.15	1.24
10	k5	660	VAL	CA-CB	-6.91	1.45	1.54
10	j5	762	GLU	C-O	-6.91	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	762	GLU	C-O	-6.91	1.16	1.24
10	k5	980	HIS	CA-C	-6.91	1.44	1.52
4	MA	62	LYS	C-O	-6.91	1.15	1.24
4	M9	62	LYS	C-O	-6.91	1.15	1.24
10	k5	402	ILE	CA-CB	-6.90	1.45	1.54
10	k5	320	GLU	CA-C	-6.90	1.43	1.52
8	o7	82	LEU	C-O	-6.90	1.15	1.24
10	j5	620	PRO	C-O	-6.89	1.16	1.23
10	k5	620	PRO	C-O	-6.89	1.16	1.23
10	k5	728	PRO	CA-CB	-6.89	1.43	1.53
10	j5	476	ASN	N-CA	-6.89	1.36	1.46
10	j5	535	PRO	CA-C	-6.89	1.43	1.52
10	j5	681	TYR	CA-C	-6.89	1.43	1.52
10	k5	535	PRO	CA-C	-6.89	1.43	1.52
10	j5	821	ASP	CA-C	-6.89	1.43	1.52
10	k5	955	LEU	CA-C	-6.89	1.43	1.52
4	M3	42	SER	CA-C	-6.89	1.44	1.52
4	M1	42	SER	CA-C	-6.89	1.44	1.52
4	M3	62	LYS	C-O	-6.89	1.15	1.24
9	z5	5	PHE	CA-C	-6.89	1.44	1.52
10	k5	974	LEU	CA-C	-6.89	1.43	1.52
4	M1	62	LYS	C-O	-6.89	1.15	1.24
9	i5	5	PHE	C-N	-6.88	1.24	1.33
10	j5	1037	ARG	C-O	-6.88	1.16	1.24
10	k5	1037	ARG	C-O	-6.88	1.16	1.24
10	k5	771	ALA	CA-C	-6.88	1.43	1.52
10	j5	181	ALA	C-O	-6.88	1.16	1.24
10	k5	481	ILE	CA-CB	-6.88	1.45	1.54
10	k5	943	THR	C-O	-6.88	1.16	1.24
4	M8	42	SER	CA-C	-6.88	1.44	1.52
8	u7	82	LEU	C-O	-6.87	1.15	1.24
11	aA	523	GLN	CA-C	-6.87	1.43	1.52
8	A5	48	GLU	CA-CB	-6.87	1.42	1.53
8	G5	48	GLU	CA-CB	-6.87	1.42	1.53
10	k5	476	ASN	N-CA	-6.87	1.36	1.46
10	j5	445	TYR	C-O	-6.87	1.14	1.24
10	j5	660	VAL	CA-CB	-6.87	1.45	1.54
10	j5	728	PRO	CA-CB	-6.87	1.43	1.53
10	k5	445	TYR	C-O	-6.87	1.14	1.24
4	M8	63	GLY	C-O	-6.86	1.14	1.24
10	j5	352	ILE	C-N	6.86	1.43	1.33
10	k5	352	ILE	C-N	6.86	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	MA	58	TYR	CA-C	-6.86	1.44	1.52
8	I5	19	SER	CA-C	-6.86	1.44	1.53
9	i5	5	PHE	CA-C	-6.86	1.44	1.52
4	MA	42	SER	C-O	-6.86	1.16	1.24
10	j5	398	LEU	CA-C	-6.86	1.43	1.52
4	M9	42	SER	C-O	-6.86	1.16	1.24
4	M4	63	GLY	C-O	-6.86	1.14	1.24
1	J5	17	LYS	C-O	-6.86	1.15	1.23
9	z5	5	PHE	C-N	-6.85	1.24	1.33
10	j5	260	TYR	C-O	-6.85	1.15	1.24
10	k5	260	TYR	C-O	-6.85	1.15	1.24
4	M3	58	TYR	CA-C	-6.85	1.44	1.52
4	M1	58	TYR	CA-C	-6.85	1.44	1.52
4	MA	42	SER	CA-C	-6.85	1.44	1.52
4	M9	42	SER	CA-C	-6.85	1.44	1.52
4	M3	63	GLY	C-O	-6.85	1.14	1.24
4	M1	63	GLY	C-O	-6.85	1.14	1.24
10	j5	980	HIS	CA-C	-6.85	1.44	1.52
10	j5	930	LEU	CA-C	-6.84	1.44	1.52
10	k5	930	LEU	CA-C	-6.84	1.44	1.52
10	k5	398	LEU	CA-C	-6.84	1.43	1.52
10	k5	679	LEU	CA-C	-6.84	1.44	1.53
11	a9	523	GLN	CA-C	-6.84	1.43	1.52
4	M4	14	LEU	C-O	-6.84	1.15	1.23
9	z5	31	LEU	CA-C	-6.84	1.44	1.52
10	j5	593	LEU	CA-C	-6.84	1.44	1.52
10	k5	491	THR	C-O	-6.84	1.15	1.24
10	k5	799	GLU	CA-C	-6.84	1.43	1.52
10	k5	784	ILE	CA-CB	-6.84	1.46	1.54
10	j5	512	ASN	C-O	-6.83	1.14	1.23
10	k5	512	ASN	C-O	-6.83	1.14	1.23
4	M9	58	TYR	CA-C	-6.83	1.44	1.52
9	i5	46	LYS	CA-C	-6.83	1.43	1.52
10	j5	52	ARG	CA-C	-6.83	1.44	1.52
10	j5	799	GLU	CA-C	-6.83	1.43	1.52
10	j5	863	ILE	CA-C	-6.83	1.44	1.52
10	j5	521	GLY	C-O	-6.82	1.14	1.23
10	j5	679	LEU	CA-C	-6.82	1.44	1.53
10	j5	711	PRO	C-O	-6.82	1.15	1.24
8	E5	131	ARG	CA-C	-6.82	1.43	1.52
9	z5	46	LYS	CA-C	-6.82	1.43	1.52
10	j5	258	LEU	C-O	-6.82	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	547	ARG	CA-C	-6.82	1.44	1.52
10	k5	258	LEU	C-O	-6.82	1.15	1.24
10	k5	595	ASN	C-O	-6.82	1.15	1.24
4	M9	63	GLY	C-O	-6.82	1.14	1.24
10	j5	583	GLY	C-O	-6.82	1.15	1.23
10	k5	821	ASP	CA-C	-6.82	1.43	1.52
10	j5	423	LEU	C-O	-6.82	1.16	1.24
10	k5	593	LEU	CA-C	-6.82	1.44	1.52
4	M3	42	SER	C-O	-6.81	1.16	1.24
10	j5	481	ILE	CA-CB	-6.81	1.45	1.54
10	j5	378	TYR	CA-C	-6.81	1.44	1.52
10	k5	378	TYR	CA-C	-6.81	1.44	1.52
8	C5	19	SER	CA-C	-6.81	1.44	1.53
9	i5	34	TYR	N-CA	-6.81	1.37	1.46
1	D5	10	ASN	CA-C	-6.80	1.43	1.52
10	j5	955	LEU	CA-C	-6.80	1.43	1.52
10	k5	181	ALA	C-O	-6.80	1.16	1.24
11	a9	531	ASP	C-O	-6.80	1.15	1.24
11	aA	531	ASP	C-O	-6.80	1.15	1.24
9	i5	31	LEU	CA-C	-6.79	1.44	1.52
10	k5	52	ARG	CA-C	-6.79	1.44	1.52
10	k5	784	ILE	C-O	-6.79	1.16	1.24
4	MA	63	GLY	C-O	-6.79	1.14	1.24
10	j5	867	VAL	C-O	-6.79	1.14	1.24
10	k5	485	ALA	CA-C	-6.79	1.44	1.53
10	k5	646	ASN	CA-C	-6.79	1.43	1.52
4	MA	72	ALA	CA-C	-6.79	1.44	1.52
4	M8	60	LYS	C-O	-6.79	1.16	1.24
4	M9	72	ALA	CA-C	-6.79	1.44	1.52
1	J5	9	ILE	C-O	-6.79	1.15	1.24
10	j5	259	PRO	C-O	-6.79	1.15	1.23
4	M3	198	ALA	C-O	-6.79	1.16	1.24
10	k5	753	PHE	CA-CB	-6.79	1.43	1.53
4	M1	198	ALA	C-O	-6.79	1.16	1.24
4	M1	42	SER	C-O	-6.79	1.16	1.24
10	j5	656	GLY	CA-C	-6.78	1.42	1.51
10	j5	943	THR	C-O	-6.78	1.16	1.24
4	M8	42	SER	C-O	-6.78	1.16	1.24
11	a9	333	GLN	CA-C	-6.78	1.43	1.52
10	j5	479	LEU	C-O	-6.78	1.15	1.23
10	k5	479	LEU	C-O	-6.78	1.15	1.23
8	i7	134	LYS	C-O	-6.78	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M3	60	LYS	C-O	-6.78	1.16	1.24
4	M1	60	LYS	C-O	-6.78	1.16	1.24
4	M4	42	SER	C-O	-6.78	1.16	1.24
10	j5	771	ALA	CA-C	-6.78	1.43	1.52
10	k5	656	GLY	CA-C	-6.78	1.42	1.51
1	D5	17	LYS	C-O	-6.77	1.15	1.23
10	j5	756	SER	CA-C	-6.77	1.43	1.52
10	k5	756	SER	CA-C	-6.77	1.43	1.52
10	j5	720	ASP	CA-CB	-6.77	1.42	1.53
10	k5	259	PRO	C-O	-6.77	1.15	1.23
10	k5	720	ASP	CA-CB	-6.77	1.42	1.53
4	MA	198	ALA	C-O	-6.77	1.16	1.24
4	M4	72	ALA	CA-C	-6.77	1.44	1.52
4	M9	198	ALA	C-O	-6.77	1.16	1.24
4	M3	72	ALA	CA-C	-6.76	1.44	1.52
1	D5	9	ILE	C-O	-6.76	1.15	1.24
10	k5	519	GLU	C-O	-6.76	1.12	1.23
4	M1	72	ALA	CA-C	-6.76	1.44	1.52
10	j5	753	PHE	CA-CB	-6.76	1.43	1.53
10	k5	863	ILE	CA-C	-6.76	1.44	1.52
9	z5	38	PHE	CA-C	-6.76	1.44	1.52
10	k5	521	GLY	C-O	-6.76	1.14	1.23
10	k5	547	ARG	CA-C	-6.76	1.44	1.52
4	M9	14	LEU	C-O	-6.76	1.15	1.23
8	u7	36	ARG	CA-C	-6.75	1.44	1.52
4	M3	14	LEU	C-O	-6.75	1.15	1.23
1	J5	10	ASN	CA-C	-6.75	1.43	1.52
9	z5	34	TYR	N-CA	-6.75	1.37	1.46
4	M8	14	LEU	C-O	-6.75	1.15	1.23
4	M1	14	LEU	C-O	-6.75	1.15	1.23
4	MA	14	LEU	C-O	-6.75	1.15	1.23
9	i5	38	PHE	CA-C	-6.75	1.44	1.52
10	j5	485	ALA	CA-C	-6.75	1.44	1.53
10	j5	646	ASN	CA-C	-6.75	1.43	1.52
10	k5	711	PRO	C-O	-6.75	1.15	1.24
10	k5	739	VAL	CA-C	-6.75	1.43	1.52
4	M8	198	ALA	C-O	-6.75	1.16	1.24
10	j5	426	LEU	C-O	-6.75	1.16	1.24
10	j5	595	ASN	C-O	-6.75	1.15	1.24
10	j5	828	VAL	CA-C	-6.75	1.44	1.52
10	k5	423	LEU	C-O	-6.75	1.16	1.24
10	k5	828	VAL	CA-C	-6.75	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M4	198	ALA	C-O	-6.74	1.16	1.24
10	k5	422	TYR	C-O	-6.74	1.15	1.23
8	o7	36	ARG	CA-C	-6.74	1.44	1.52
4	M8	72	ALA	CA-C	-6.74	1.44	1.52
4	MA	35	THR	C-O	-6.74	1.15	1.23
10	k5	442	LEU	CA-C	-6.74	1.44	1.52
4	M9	35	THR	C-O	-6.74	1.15	1.23
11	a9	521	PHE	C-O	-6.74	1.16	1.24
11	aA	521	PHE	C-O	-6.74	1.16	1.24
10	k5	654	LYS	CA-C	-6.74	1.43	1.52
10	j5	442	LEU	CA-C	-6.73	1.44	1.52
9	z5	21	ARG	CA-C	-6.73	1.43	1.52
10	k5	426	LEU	C-O	-6.73	1.16	1.24
10	j5	422	TYR	C-O	-6.73	1.15	1.23
10	j5	654	LYS	CA-C	-6.73	1.43	1.52
8	i7	123	ILE	C-O	-6.73	1.16	1.24
8	K5	79	ALA	C-O	-6.73	1.16	1.24
4	M4	60	LYS	C-O	-6.73	1.16	1.24
10	j5	519	GLU	C-O	-6.73	1.12	1.23
10	j5	1106	PHE	C-O	-6.72	1.16	1.24
10	k5	709	ILE	CA-CB	-6.72	1.46	1.54
11	aA	333	GLN	CA-C	-6.72	1.43	1.52
4	MA	60	LYS	C-O	-6.72	1.16	1.24
9	i5	21	ARG	CA-C	-6.72	1.43	1.52
4	M9	60	LYS	C-O	-6.72	1.16	1.24
8	c7	134	LYS	C-O	-6.72	1.16	1.24
10	j5	935	LEU	N-CA	-6.71	1.37	1.46
10	k5	867	VAL	C-O	-6.71	1.14	1.24
11	a9	578	MET	CA-C	-6.71	1.44	1.52
11	aA	578	MET	CA-C	-6.71	1.44	1.52
10	j5	878	GLU	CA-C	-6.71	1.44	1.52
10	j5	644	GLU	CA-C	-6.71	1.44	1.52
10	k5	644	GLU	CA-C	-6.71	1.44	1.52
8	E5	79	ALA	C-O	-6.71	1.16	1.24
10	j5	8	GLY	C-O	-6.71	1.15	1.23
10	k5	8	GLY	C-O	-6.71	1.15	1.23
10	k5	878	GLU	CA-C	-6.71	1.44	1.52
8	c7	123	ILE	C-O	-6.71	1.16	1.24
8	K5	131	ARG	CA-C	-6.70	1.43	1.52
10	j5	510	ILE	CA-CB	-6.70	1.46	1.54
9	w7	62	GLY	C-O	-6.70	1.15	1.23
9	z7	62	GLY	C-O	-6.70	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	z7	21	ARG	CA-C	-6.70	1.43	1.52
4	M3	35	THR	C-O	-6.69	1.15	1.23
4	M1	35	THR	C-O	-6.69	1.15	1.23
10	j5	738	TYR	CA-C	-6.69	1.43	1.52
4	M3	37	GLU	CA-C	-6.69	1.46	1.53
4	M1	37	GLU	CA-C	-6.69	1.46	1.53
4	M4	54	ALA	CA-C	-6.69	1.44	1.52
10	j5	709	ILE	CA-CB	-6.69	1.46	1.54
1	D5	7	ALA	C-O	-6.68	1.15	1.24
10	j5	624	CYS	C-O	-6.68	1.15	1.24
10	j5	704	THR	N-CA	-6.68	1.38	1.46
9	z7	47	ALA	C-O	-6.68	1.14	1.23
10	k5	693	ARG	CA-CB	-6.68	1.42	1.53
1	b7	43	VAL	C-O	-6.68	1.16	1.24
9	w7	21	ARG	CA-C	-6.68	1.43	1.52
10	k5	763	SER	C-O	-6.68	1.15	1.24
9	w7	46	LYS	C-O	-6.68	1.15	1.24
4	M8	54	ALA	CA-C	-6.68	1.44	1.52
9	z7	46	LYS	C-O	-6.68	1.15	1.24
10	j5	763	SER	C-O	-6.67	1.15	1.24
10	j5	1096	ILE	C-O	-6.67	1.16	1.24
4	M4	35	THR	C-O	-6.67	1.15	1.23
4	M8	35	THR	C-O	-6.67	1.15	1.23
8	A5	64	ASP	C-O	-6.67	1.15	1.24
4	M4	56	MET	CA-C	-6.67	1.44	1.52
8	K5	102	THR	C-O	-6.67	1.18	1.24
9	i5	36	ASN	C-O	-6.67	1.14	1.24
10	j5	902	ASN	C-O	-6.67	1.14	1.23
10	k5	935	LEU	N-CA	-6.67	1.37	1.46
10	k5	1092	ALA	C-O	-6.67	1.16	1.24
9	i5	64	ASN	C-O	-6.67	1.16	1.24
10	j5	678	VAL	N-CA	-6.66	1.38	1.46
10	k5	678	VAL	N-CA	-6.66	1.38	1.46
10	j5	457	THR	N-CA	-6.66	1.38	1.46
10	j5	660	VAL	CA-C	-6.66	1.44	1.52
10	k5	457	THR	N-CA	-6.66	1.38	1.46
10	k5	510	ILE	CA-CB	-6.66	1.46	1.54
8	G5	64	ASP	C-O	-6.66	1.15	1.24
10	j5	740	ASN	C-O	-6.66	1.15	1.24
10	k5	740	ASN	C-O	-6.66	1.15	1.24
10	k5	902	ASN	C-O	-6.65	1.14	1.23
10	j5	319	ALA	CA-C	-6.65	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	319	ALA	CA-C	-6.65	1.44	1.52
4	M8	56	MET	CA-C	-6.65	1.44	1.52
10	j5	763	SER	CA-C	-6.65	1.43	1.52
10	k5	763	SER	CA-C	-6.65	1.43	1.52
11	a9	458	HIS	C-O	-6.65	1.16	1.24
11	aA	458	HIS	C-O	-6.65	1.16	1.24
10	j5	1092	ALA	C-O	-6.64	1.16	1.24
10	k5	660	VAL	CA-C	-6.64	1.44	1.52
1	b7	45	SER	C-O	-6.64	1.16	1.24
9	w7	47	ALA	C-O	-6.64	1.14	1.23
8	E5	102	THR	C-O	-6.64	1.18	1.24
10	j5	822	ARG	C-O	-6.64	1.15	1.24
10	k5	822	ARG	C-O	-6.64	1.15	1.24
9	z7	33	PRO	CA-C	-6.64	1.44	1.52
10	j5	746	LEU	CA-C	-6.64	1.43	1.52
10	k5	601	LYS	CA-C	-6.64	1.44	1.52
9	w7	33	PRO	CA-C	-6.64	1.44	1.52
10	j5	27	GLY	C-O	-6.63	1.16	1.23
10	k5	27	GLY	C-O	-6.63	1.16	1.23
10	k5	746	LEU	CA-C	-6.63	1.43	1.52
10	k5	790	ALA	C-O	-6.63	1.15	1.24
8	c7	120	GLN	CA-C	-6.63	1.45	1.53
4	M3	54	ALA	CA-C	-6.63	1.44	1.52
4	M1	54	ALA	CA-C	-6.63	1.44	1.52
10	j5	693	ARG	CA-CB	-6.62	1.42	1.53
10	k5	1118	THR	CA-C	-6.62	1.44	1.52
1	D5	5	ILE	C-O	-6.62	1.15	1.24
10	k5	1096	ILE	C-O	-6.62	1.16	1.24
10	k5	623	VAL	CA-CB	-6.62	1.44	1.54
4	M3	43	TYR	CB-CG	-6.62	1.37	1.51
10	k5	704	THR	N-CA	-6.62	1.38	1.46
4	M1	43	TYR	CB-CG	-6.62	1.37	1.51
8	E5	103	PRO	C-O	-6.61	1.16	1.24
8	u7	49	ARG	C-O	-6.61	1.15	1.23
9	i5	67	VAL	C-O	-6.61	1.16	1.24
10	j5	981	ILE	C-O	-6.61	1.17	1.24
10	k5	624	CYS	C-O	-6.61	1.15	1.24
4	M4	43	TYR	CB-CG	-6.61	1.37	1.51
10	k5	624	CYS	CA-CB	-6.61	1.42	1.53
4	MA	54	ALA	CA-C	-6.61	1.44	1.52
4	MA	56	MET	CA-C	-6.61	1.44	1.52
9	i5	57	PHE	CA-C	-6.61	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	i5	58	THR	C-O	-6.61	1.15	1.23
1	h7	43	VAL	C-O	-6.61	1.16	1.24
9	w7	24	GLN	C-O	-6.61	1.15	1.24
4	M9	54	ALA	CA-C	-6.61	1.44	1.52
4	M9	56	MET	CA-C	-6.61	1.44	1.52
10	j5	624	CYS	CA-CB	-6.60	1.42	1.53
4	M4	107	VAL	C-O	-6.60	1.16	1.24
10	k5	295	ARG	C-O	-6.60	1.16	1.24
1	J5	5	ILE	C-O	-6.60	1.15	1.24
4	M8	43	TYR	CB-CG	-6.60	1.37	1.51
11	a9	802	ARG	C-O	-6.60	1.15	1.24
11	aA	802	ARG	C-O	-6.60	1.15	1.24
4	MA	166	THR	C-O	-6.60	1.16	1.24
4	M9	166	THR	C-O	-6.60	1.16	1.24
9	z5	41	GLN	CD-OE1	-6.59	1.11	1.23
9	z5	64	ASN	C-O	-6.59	1.16	1.24
8	o7	49	ARG	C-O	-6.59	1.15	1.23
9	z7	24	GLN	C-O	-6.59	1.15	1.24
10	j5	522	ASN	N-CA	-6.59	1.41	1.46
4	MA	43	TYR	CB-CG	-6.59	1.37	1.51
8	o7	57	GLN	CA-C	-6.59	1.44	1.52
4	M8	57	THR	C-O	-6.59	1.16	1.24
4	M9	43	TYR	CB-CG	-6.59	1.37	1.51
3	F9	157	VAL	CA-C	6.59	1.60	1.52
3	LA	111	ASN	C-O	-6.59	1.16	1.24
1	h7	45	SER	C-O	-6.59	1.16	1.24
1	b7	44	ILE	C-O	-6.59	1.16	1.24
3	L9	111	ASN	C-O	-6.59	1.16	1.24
4	MA	37	GLU	CA-C	-6.59	1.46	1.53
10	j5	623	VAL	CA-CB	-6.59	1.44	1.54
4	M9	37	GLU	CA-C	-6.59	1.46	1.53
4	MA	19	MET	CA-C	-6.58	1.45	1.53
8	a5	14	GLU	N-CA	-6.58	1.38	1.46
8	i7	137	ALA	C-O	-6.58	1.16	1.24
4	M9	19	MET	CA-C	-6.58	1.45	1.53
9	z5	36	ASN	C-O	-6.58	1.14	1.24
4	M3	19	MET	CA-C	-6.58	1.45	1.53
4	M3	56	MET	CA-C	-6.58	1.44	1.52
10	j5	766	ALA	CA-C	-6.58	1.44	1.52
4	M1	19	MET	CA-C	-6.58	1.45	1.53
4	M1	56	MET	CA-C	-6.58	1.44	1.52
10	j5	451	LYS	CA-C	-6.58	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	790	ALA	C-O	-6.58	1.15	1.24
10	j5	257	THR	C-O	-6.58	1.15	1.23
1	h7	44	ILE	C-O	-6.58	1.16	1.24
8	I5	15	ALA	C-O	-6.58	1.15	1.23
10	j5	635	LEU	CA-C	-6.58	1.44	1.52
1	J5	7	ALA	C-O	-6.58	1.15	1.24
8	C5	15	ALA	C-O	-6.57	1.15	1.23
9	z7	52	LEU	CA-C	-6.57	1.44	1.52
4	M4	57	THR	C-O	-6.57	1.16	1.24
10	k5	522	ASN	N-CA	-6.57	1.41	1.46
9	w7	52	LEU	CA-C	-6.57	1.44	1.52
10	j5	601	LYS	CA-C	-6.57	1.44	1.52
9	z5	67	VAL	C-O	-6.57	1.16	1.24
10	k5	437	GLY	CA-C	-6.57	1.44	1.52
10	k5	753	PHE	CA-C	-6.57	1.44	1.52
11	a9	519	ARG	CA-C	-6.57	1.42	1.52
11	aA	519	ARG	CA-C	-6.57	1.42	1.52
4	M3	166	THR	C-O	-6.57	1.16	1.24
10	j5	753	PHE	CA-C	-6.57	1.44	1.52
4	M1	166	THR	C-O	-6.57	1.16	1.24
10	j5	1118	THR	CA-C	-6.56	1.44	1.52
4	MA	57	THR	C-O	-6.56	1.16	1.24
4	M3	57	THR	C-O	-6.56	1.16	1.24
4	M9	57	THR	C-O	-6.56	1.16	1.24
4	M1	57	THR	C-O	-6.56	1.16	1.24
10	j5	295	ARG	C-O	-6.56	1.16	1.24
10	j5	727	THR	CB-CG2	-6.55	1.30	1.52
10	k5	635	LEU	CA-C	-6.55	1.44	1.52
8	u7	37	LEU	C-O	-6.55	1.16	1.24
10	k5	779	ASP	CA-CB	-6.55	1.42	1.53
10	k5	787	GLU	C-O	-6.55	1.16	1.24
8	i7	122	PRO	CA-C	-6.55	1.46	1.52
10	j5	705	THR	C-O	-6.55	1.15	1.24
9	i5	41	GLN	CD-OE1	-6.54	1.11	1.23
4	M3	107	VAL	C-O	-6.54	1.16	1.24
10	j5	684	TYR	CA-C	-6.54	1.44	1.52
10	k5	684	TYR	CA-C	-6.54	1.44	1.52
8	c7	122	PRO	CA-C	-6.54	1.46	1.52
4	M1	107	VAL	C-O	-6.54	1.16	1.24
8	K5	96	ILE	C-O	-6.54	1.16	1.24
10	j5	637	ARG	CA-CB	-6.54	1.46	1.53
10	k5	637	ARG	CA-CB	-6.54	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M4	173	PHE	C-O	-6.54	1.16	1.24
9	z5	57	PHE	CA-C	-6.54	1.44	1.52
9	z5	58	THR	C-O	-6.54	1.15	1.24
10	k5	727	THR	CB-CG2	-6.54	1.30	1.52
10	k5	661	VAL	CA-C	-6.53	1.44	1.52
10	j5	171	ILE	C-O	-6.53	1.16	1.24
10	k5	4	ARG	N-CA	-6.53	1.37	1.46
10	j5	349	GLN	CA-CB	-6.53	1.44	1.53
10	j5	787	GLU	C-O	-6.53	1.16	1.24
10	k5	6	THR	CA-C	-6.53	1.44	1.52
10	k5	349	GLN	CA-CB	-6.53	1.44	1.53
4	M8	166	THR	C-O	-6.53	1.16	1.24
4	M4	55	GLU	CA-C	-6.53	1.44	1.52
10	j5	6	THR	CA-C	-6.53	1.44	1.52
10	j5	437	GLY	CA-C	-6.53	1.44	1.52
10	k5	705	THR	C-O	-6.53	1.15	1.24
10	k5	518	ASN	CG-OD1	-6.52	1.11	1.23
10	k5	981	ILE	C-O	-6.52	1.17	1.24
4	M4	19	MET	CA-C	-6.52	1.45	1.53
8	e5	14	GLU	N-CA	-6.52	1.38	1.46
4	MA	107	VAL	C-O	-6.51	1.16	1.24
8	K5	103	PRO	C-O	-6.51	1.16	1.24
10	j5	29	ASN	C-O	-6.51	1.16	1.24
10	j5	764	PHE	CA-C	-6.51	1.44	1.52
10	j5	804	GLU	CA-CB	-6.51	1.43	1.53
10	k5	764	PHE	CA-C	-6.51	1.44	1.52
10	k5	804	GLU	CA-CB	-6.51	1.43	1.53
4	M8	37	GLU	CA-C	-6.51	1.46	1.53
4	M9	107	VAL	C-O	-6.51	1.16	1.24
10	j5	4	ARG	N-CA	-6.51	1.37	1.46
4	M4	166	THR	C-O	-6.51	1.16	1.24
9	z7	49	GLY	C-O	-6.51	1.14	1.23
4	M8	19	MET	CA-C	-6.51	1.45	1.53
4	M8	129	GLU	C-O	-6.51	1.15	1.24
10	k5	29	ASN	C-O	-6.51	1.16	1.24
10	j5	664	MET	N-CA	-6.51	1.38	1.46
10	k5	519	GLU	CA-CB	-6.51	1.46	1.54
10	k5	664	MET	N-CA	-6.51	1.38	1.46
11	a9	487	ASP	CA-C	-6.51	1.44	1.52
11	aA	487	ASP	CA-C	-6.51	1.44	1.52
10	k5	451	LYS	CA-C	-6.50	1.44	1.52
10	k5	766	ALA	CA-C	-6.50	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	799	GLU	C-O	-6.50	1.15	1.24
10	k5	171	ILE	C-O	-6.50	1.16	1.24
10	k5	257	THR	C-O	-6.50	1.15	1.23
4	M9	129	GLU	C-O	-6.50	1.15	1.24
4	MA	111	LYS	CA-C	-6.50	1.44	1.52
4	M3	110	TYR	C-O	-6.50	1.16	1.24
9	i5	41	GLN	CA-CB	-6.50	1.43	1.53
10	k5	722	ILE	CA-CB	-6.50	1.46	1.54
4	M9	111	LYS	CA-C	-6.50	1.44	1.52
8	u7	57	GLN	CA-C	-6.50	1.44	1.52
4	MA	55	GLU	CA-C	-6.49	1.44	1.52
4	M4	129	GLU	C-O	-6.49	1.15	1.24
4	M9	55	GLU	CA-C	-6.49	1.44	1.52
9	z5	41	GLN	CA-CB	-6.49	1.43	1.53
8	c7	137	ALA	C-O	-6.49	1.16	1.24
9	w7	49	GLY	C-O	-6.49	1.14	1.23
4	M3	180	ASN	CA-C	-6.49	1.44	1.52
10	j5	683	ARG	CA-CB	-6.49	1.43	1.53
10	k5	683	ARG	CA-CB	-6.49	1.43	1.53
4	M1	180	ASN	CA-C	-6.49	1.44	1.52
10	j5	159	ASP	N-CA	-6.48	1.38	1.46
10	j5	750	ARG	C-O	-6.48	1.16	1.23
10	k5	159	ASP	N-CA	-6.48	1.38	1.46
4	M8	173	PHE	C-O	-6.48	1.16	1.24
4	M4	37	GLU	CA-C	-6.48	1.46	1.53
10	j5	487	PHE	C-O	-6.48	1.15	1.24
10	j5	519	GLU	CA-CB	-6.48	1.46	1.54
10	k5	487	PHE	C-O	-6.48	1.15	1.24
10	j5	844	GLN	CA-C	-6.47	1.43	1.52
10	k5	844	GLN	CA-C	-6.47	1.43	1.52
4	M4	180	ASN	CA-C	-6.47	1.44	1.52
10	j5	703	LEU	CA-C	-6.47	1.44	1.52
10	j5	779	ASP	CA-CB	-6.47	1.43	1.53
10	j5	661	VAL	CA-C	-6.47	1.44	1.52
10	k5	570	ALA	C-O	-6.47	1.15	1.24
4	M8	55	GLU	CA-C	-6.47	1.44	1.52
10	j5	60	LEU	C-O	-6.47	1.16	1.24
10	j5	371	SER	N-CA	-6.47	1.38	1.46
10	j5	518	ASN	CG-OD1	-6.47	1.11	1.23
10	j5	642	ARG	CZ-NH2	-6.47	1.25	1.33
10	k5	60	LEU	C-O	-6.47	1.16	1.24
10	k5	439	ALA	CA-C	-6.47	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	453	PRO	CA-CB	-6.47	1.44	1.53
10	j5	847	LEU	CA-CB	-6.47	1.43	1.53
4	MA	173	PHE	C-O	-6.47	1.16	1.24
10	k5	1113	TYR	C-O	-6.47	1.15	1.23
4	M9	173	PHE	C-O	-6.47	1.16	1.24
10	j5	489	ASN	CA-C	-6.46	1.44	1.52
4	M4	111	LYS	CA-C	-6.46	1.44	1.52
4	M3	173	PHE	C-O	-6.46	1.16	1.24
4	M1	173	PHE	C-O	-6.46	1.16	1.24
8	E5	96	ILE	C-O	-6.46	1.16	1.24
10	k5	965	GLN	C-O	-6.46	1.16	1.23
4	M1	110	TYR	C-O	-6.46	1.16	1.24
10	j5	748	ARG	C-O	-6.46	1.15	1.24
10	k5	748	ARG	C-O	-6.46	1.15	1.24
4	M8	107	VAL	C-O	-6.46	1.16	1.24
4	M8	111	LYS	CA-C	-6.46	1.44	1.52
4	M4	110	TYR	C-O	-6.46	1.16	1.24
8	C5	4	LEU	CA-C	-6.46	1.44	1.52
4	MA	129	GLU	C-O	-6.45	1.15	1.24
4	M3	55	GLU	CA-C	-6.45	1.44	1.52
8	I5	4	LEU	CA-C	-6.45	1.44	1.52
10	j5	720	ASP	CA-C	-6.45	1.44	1.52
10	k5	720	ASP	CA-C	-6.45	1.44	1.52
10	k5	892	ALA	C-O	-6.45	1.11	1.24
4	M1	55	GLU	CA-C	-6.45	1.44	1.52
4	M3	129	GLU	C-O	-6.45	1.15	1.24
10	k5	500	PRO	CA-CB	-6.45	1.47	1.54
10	k5	750	ARG	C-O	-6.45	1.16	1.23
4	M1	129	GLU	C-O	-6.45	1.15	1.24
4	M4	4	LEU	C-O	-6.45	1.15	1.23
10	j5	439	ALA	CA-C	-6.45	1.44	1.52
10	j5	578	ARG	C-O	-6.45	1.16	1.23
10	k5	371	SER	N-CA	-6.45	1.38	1.46
10	j5	965	GLN	C-O	-6.44	1.16	1.23
10	k5	489	ASN	CA-C	-6.44	1.44	1.52
10	k5	159	ASP	C-O	-6.44	1.16	1.24
4	M3	4	LEU	C-O	-6.43	1.15	1.23
10	j5	573	GLN	CA-C	-6.43	1.43	1.52
4	M8	180	ASN	CA-C	-6.43	1.44	1.52
4	M1	4	LEU	C-O	-6.43	1.15	1.23
10	k5	799	GLU	C-O	-6.43	1.15	1.24
8	o7	37	LEU	C-O	-6.43	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	MA	180	ASN	CA-C	-6.43	1.44	1.52
4	M9	180	ASN	CA-C	-6.43	1.44	1.52
10	k5	847	LEU	CA-CB	-6.43	1.43	1.53
10	j5	453	PRO	CA-CB	-6.43	1.44	1.53
10	j5	848	ILE	N-CA	-6.43	1.38	1.46
1	J5	39	ARG	N-CA	-6.42	1.38	1.46
10	k5	642	ARG	CZ-NH2	-6.42	1.25	1.33
10	j5	570	ALA	C-O	-6.42	1.15	1.24
10	j5	589	ALA	C-O	-6.42	1.14	1.23
10	j5	892	ALA	C-O	-6.42	1.11	1.24
10	j5	397	GLY	C-O	-6.42	1.15	1.23
10	k5	397	GLY	C-O	-6.42	1.15	1.23
10	j5	892	ALA	CA-CB	-6.41	1.45	1.53
10	k5	703	LEU	CA-C	-6.41	1.44	1.52
10	k5	892	ALA	CA-CB	-6.41	1.45	1.53
9	z5	33	PRO	C-O	-6.41	1.16	1.23
9	i5	33	PRO	C-O	-6.41	1.16	1.23
4	M8	110	TYR	C-O	-6.41	1.16	1.24
8	c7	114	GLU	CA-C	-6.41	1.44	1.52
11	a9	366	LEU	CA-C	-6.41	1.44	1.52
11	aA	366	LEU	CA-C	-6.41	1.44	1.52
10	j5	314	GLN	CA-C	-6.41	1.44	1.53
10	j5	655	LYS	C-O	-6.41	1.15	1.24
10	k5	314	GLN	CA-C	-6.41	1.44	1.53
10	k5	655	LYS	C-O	-6.41	1.15	1.24
4	M8	4	LEU	C-O	-6.41	1.15	1.23
4	M3	111	LYS	CA-C	-6.40	1.44	1.52
4	M3	114	PHE	C-O	-6.40	1.15	1.24
10	j5	868	ASP	CA-C	-6.40	1.44	1.52
10	k5	790	ALA	N-CA	-6.40	1.38	1.46
4	M1	111	LYS	CA-C	-6.40	1.44	1.52
4	M1	114	PHE	C-O	-6.40	1.15	1.24
8	i7	126	VAL	C-O	-6.40	1.16	1.24
10	j5	458	LEU	CA-C	-6.40	1.44	1.52
10	j5	1113	TYR	C-O	-6.40	1.15	1.23
8	o7	54	ALA	CA-C	-6.40	1.44	1.52
4	MA	110	TYR	C-O	-6.39	1.16	1.24
10	j5	320	GLU	C-O	-6.39	1.16	1.24
10	j5	500	PRO	CA-CB	-6.39	1.47	1.54
10	j5	515	PRO	CA-C	-6.39	1.41	1.52
10	j5	722	ILE	CA-CB	-6.39	1.46	1.54
10	k5	589	ALA	C-O	-6.39	1.14	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M9	110	TYR	C-O	-6.39	1.16	1.24
3	JA	108	ARG	N-CA	-6.39	1.38	1.46
4	M4	114	PHE	C-O	-6.39	1.15	1.24
10	j5	1123	ASN	C-O	-6.39	1.15	1.24
10	k5	320	GLU	C-O	-6.39	1.16	1.24
10	k5	1123	ASN	C-O	-6.39	1.15	1.24
3	J9	108	ARG	N-CA	-6.39	1.38	1.46
11	a9	622	ALA	CA-C	-6.39	1.44	1.52
11	aA	622	ALA	CA-C	-6.39	1.44	1.52
4	MA	4	LEU	C-O	-6.39	1.15	1.23
10	k5	251	GLU	C-O	-6.39	1.15	1.24
4	M9	4	LEU	C-O	-6.39	1.15	1.23
4	M3	51	ARG	CZ-NH2	6.39	1.41	1.33
10	k5	626	ALA	N-CA	-6.39	1.38	1.46
10	k5	810	GLY	C-O	-6.39	1.15	1.23
4	M1	51	ARG	CZ-NH2	6.39	1.41	1.33
10	j5	184	LEU	C-O	-6.39	1.16	1.24
8	c7	126	VAL	C-O	-6.39	1.16	1.24
1	D5	39	ARG	N-CA	-6.39	1.38	1.46
10	k5	868	ASP	CA-C	-6.39	1.44	1.52
10	j5	1131	ASN	CA-C	-6.38	1.44	1.52
10	k5	515	PRO	CA-C	-6.38	1.41	1.52
10	j5	159	ASP	C-O	-6.38	1.16	1.24
10	k5	778	LYS	C-O	-6.38	1.16	1.24
4	MA	34	ASP	CA-C	-6.38	1.44	1.52
10	k5	573	GLN	N-CA	-6.38	1.37	1.46
4	M9	34	ASP	CA-C	-6.38	1.44	1.52
11	a9	22	ALA	C-O	-6.38	1.16	1.24
11	aA	22	ALA	C-O	-6.38	1.16	1.24
10	j5	974	LEU	C-O	-6.38	1.15	1.23
10	j5	1033	ARG	CA-C	-6.38	1.44	1.52
10	k5	974	LEU	C-O	-6.38	1.15	1.23
4	M8	114	PHE	C-O	-6.38	1.15	1.24
4	M1	68	ASP	C-O	-6.38	1.16	1.23
4	M8	41	ASN	CA-C	-6.38	1.44	1.52
8	C5	9	VAL	N-CA	-6.37	1.38	1.46
9	z5	65	THR	C-O	-6.37	1.15	1.23
10	j5	995	VAL	C-O	-6.37	1.16	1.24
10	j5	384	SER	CA-C	-6.37	1.46	1.52
10	k5	573	GLN	CA-C	-6.37	1.44	1.52
10	k5	954	GLU	C-O	-6.37	1.15	1.24
4	M8	173	PHE	CA-C	-6.37	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	MA	114	PHE	C-O	-6.37	1.15	1.24
10	j5	1112	PRO	C-O	-6.37	1.16	1.23
10	k5	578	ARG	C-O	-6.37	1.16	1.23
4	M9	114	PHE	C-O	-6.37	1.15	1.24
10	k5	841	VAL	C-O	-6.37	1.17	1.24
9	w7	14	LEU	CA-C	-6.37	1.44	1.52
3	LA	87	GLU	C-O	-6.36	1.16	1.24
8	I5	9	VAL	N-CA	-6.36	1.38	1.46
9	i5	65	THR	C-O	-6.36	1.15	1.23
3	L9	87	GLU	C-O	-6.36	1.16	1.24
4	M1	172	HIS	CA-C	-6.36	1.45	1.52
10	j5	784	ILE	CA-CB	-6.36	1.46	1.54
10	j5	864	GLY	CA-C	-6.36	1.44	1.52
10	k5	1131	ASN	CA-C	-6.36	1.44	1.52
10	j5	540	LEU	C-O	-6.36	1.16	1.23
10	j5	563	SER	C-O	-6.36	1.15	1.24
10	j5	1091	ALA	C-O	-6.36	1.16	1.24
10	k5	540	LEU	C-O	-6.36	1.16	1.23
10	k5	994	ASP	C-O	-6.36	1.16	1.24
10	j5	547	ARG	N-CA	-6.36	1.38	1.46
10	j5	954	GLU	C-O	-6.36	1.15	1.24
10	k5	547	ARG	N-CA	-6.36	1.38	1.46
4	M8	34	ASP	CA-C	-6.36	1.44	1.52
8	i7	120	GLN	CA-C	-6.35	1.45	1.53
4	MA	172	HIS	CA-C	-6.35	1.45	1.52
10	k5	184	LEU	C-O	-6.35	1.16	1.24
10	k5	848	ILE	N-CA	-6.35	1.39	1.46
8	i7	114	GLU	CA-C	-6.35	1.44	1.52
9	z7	14	LEU	CA-C	-6.35	1.44	1.52
4	M9	172	HIS	CA-C	-6.35	1.45	1.52
4	M4	34	ASP	CA-C	-6.35	1.44	1.52
4	MA	51	ARG	CZ-NH2	6.35	1.41	1.33
4	M9	51	ARG	CZ-NH2	6.35	1.41	1.33
10	k5	1112	PRO	C-O	-6.35	1.16	1.23
8	u7	54	ALA	CA-C	-6.34	1.44	1.52
10	j5	573	GLN	N-CA	-6.34	1.37	1.46
10	j5	383	SER	C-O	-6.34	1.15	1.24
10	k5	383	SER	C-O	-6.34	1.15	1.24
10	k5	1091	ALA	C-O	-6.34	1.16	1.24
10	j5	251	GLU	C-O	-6.34	1.16	1.24
10	j5	1116	TYR	C-O	-6.34	1.16	1.24
3	LA	94	SER	C-O	-6.34	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	418	ASP	C-O	-6.34	1.16	1.24
10	k5	257	THR	CA-C	-6.34	1.45	1.52
3	L9	94	SER	C-O	-6.34	1.15	1.24
10	j5	790	ALA	N-CA	-6.33	1.38	1.46
10	j5	810	GLY	C-O	-6.33	1.15	1.23
10	k5	733	SER	CA-CB	-6.33	1.43	1.53
10	k5	418	ASP	C-O	-6.33	1.16	1.24
10	k5	619	GLU	CA-C	-6.33	1.44	1.52
4	M1	41	ASN	CA-C	-6.33	1.44	1.52
4	M3	173	PHE	CA-C	-6.33	1.44	1.52
9	z5	22	GLU	CA-C	-6.33	1.45	1.53
4	M1	173	PHE	CA-C	-6.33	1.44	1.52
10	k5	458	LEU	CA-C	-6.32	1.44	1.52
10	k5	995	VAL	C-O	-6.32	1.16	1.24
4	M3	172	HIS	CA-C	-6.32	1.45	1.52
4	M3	41	ASN	CA-C	-6.32	1.44	1.52
10	j5	626	ALA	N-CA	-6.32	1.38	1.46
8	i7	117	ASN	C-O	-6.32	1.16	1.24
4	MA	41	ASN	CA-C	-6.32	1.44	1.52
4	M3	34	ASP	CA-C	-6.32	1.44	1.52
4	M9	41	ASN	CA-C	-6.32	1.44	1.52
4	M1	34	ASP	CA-C	-6.32	1.44	1.52
10	k5	12	ALA	CA-C	-6.32	1.44	1.52
9	z7	27	PHE	CA-C	-6.32	1.45	1.52
4	M8	68	ASP	C-O	-6.32	1.16	1.23
10	j5	994	ASP	C-O	-6.31	1.16	1.24
10	k5	384	SER	CA-C	-6.31	1.47	1.52
10	j5	471	PRO	C-O	-6.31	1.16	1.24
10	j5	778	LYS	C-O	-6.31	1.16	1.24
10	k5	563	SER	C-O	-6.31	1.15	1.24
4	MA	68	ASP	C-O	-6.31	1.16	1.23
10	j5	673	VAL	CA-CB	-6.31	1.46	1.54
4	M3	68	ASP	C-O	-6.31	1.16	1.23
10	j5	472	TYR	CZ-OH	-6.31	1.24	1.38
10	k5	420	VAL	C-O	-6.31	1.16	1.24
4	M8	220	TYR	C-O	-6.31	1.15	1.23
10	k5	909	ASP	C-O	-6.30	1.15	1.24
9	w7	27	PHE	CA-C	-6.30	1.45	1.52
4	M4	220	TYR	C-O	-6.30	1.15	1.23
10	j5	884	TRP	CB-CG	-6.30	1.30	1.50
10	k5	864	GLY	CA-C	-6.30	1.45	1.52
10	k5	1039	LEU	C-O	-6.30	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M4	41	ASN	CA-C	-6.30	1.44	1.52
10	j5	637	ARG	CZ-NH1	-6.30	1.24	1.32
10	j5	1118	THR	C-O	-6.30	1.16	1.24
10	k5	472	TYR	CZ-OH	-6.30	1.24	1.38
4	M8	128	ALA	C-O	-6.30	1.16	1.24
10	k5	728	PRO	CA-C	-6.30	1.43	1.52
8	c7	117	ASN	C-O	-6.30	1.16	1.24
4	M4	173	PHE	CA-C	-6.29	1.44	1.52
10	j5	868	ASP	C-O	-6.29	1.15	1.24
4	M9	68	ASP	C-O	-6.29	1.16	1.23
10	k5	884	TRP	CB-CG	-6.29	1.30	1.50
4	M4	68	ASP	C-O	-6.29	1.16	1.23
4	M4	51	ARG	CZ-NH2	6.29	1.41	1.33
8	a7	20	PRO	C-O	-6.29	1.16	1.24
8	e5	11	ALA	CA-C	-6.29	1.44	1.52
10	j5	733	SER	CA-CB	-6.29	1.43	1.53
10	j5	879	ASP	C-O	-6.29	1.16	1.24
10	k5	637	ARG	CZ-NH1	-6.29	1.24	1.32
8	a5	11	ALA	CA-C	-6.28	1.44	1.52
10	j5	581	TYR	CA-CB	-6.28	1.44	1.53
10	k5	1116	TYR	C-O	-6.28	1.16	1.24
10	j5	784	ILE	CA-C	-6.28	1.46	1.52
10	k5	818	GLN	CA-C	-6.28	1.44	1.52
10	k5	471	PRO	C-O	-6.28	1.16	1.24
10	j5	420	VAL	C-O	-6.28	1.16	1.24
10	j5	717	ARG	CA-C	-6.28	1.44	1.52
10	k5	4	ARG	C-O	-6.28	1.16	1.24
10	j5	12	ALA	CA-C	-6.28	1.44	1.52
10	j5	1039	LEU	C-O	-6.28	1.16	1.24
10	k5	879	ASP	C-O	-6.28	1.16	1.24
9	i5	35	GLU	CA-C	-6.27	1.43	1.52
10	j5	841	VAL	C-O	-6.27	1.17	1.24
10	k5	866	LEU	CA-C	-6.27	1.44	1.52
10	k5	1118	THR	C-O	-6.27	1.16	1.24
10	j5	488	LYS	CA-CB	-6.27	1.43	1.53
10	k5	488	LYS	CA-CB	-6.27	1.43	1.53
10	k5	994	ASP	CA-C	-6.27	1.44	1.52
10	j5	728	PRO	CA-C	-6.27	1.43	1.52
10	k5	688	ALA	CA-C	-6.27	1.44	1.52
11	a9	625	ASP	CA-C	-6.27	1.44	1.52
11	a9	781	ALA	C-O	-6.27	1.17	1.24
11	aA	781	ALA	C-O	-6.27	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	801	SER	CA-CB	-6.27	1.44	1.53
10	j5	666	ASN	C-O	-6.27	1.15	1.24
10	j5	994	ASP	CA-C	-6.27	1.44	1.52
10	k5	666	ASN	C-O	-6.27	1.15	1.24
10	k5	943	THR	CA-C	-6.27	1.45	1.52
10	j5	1004	VAL	CA-CB	-6.26	1.46	1.54
9	z5	57	PHE	C-O	-6.26	1.16	1.24
10	j5	623	VAL	CA-C	-6.26	1.43	1.52
11	a9	464	PRO	C-O	-6.26	1.16	1.23
11	aA	464	PRO	C-O	-6.26	1.16	1.23
11	aA	625	ASP	CA-C	-6.26	1.44	1.52
10	j5	801	SER	CA-CB	-6.26	1.44	1.53
4	M8	51	ARG	CZ-NH2	6.26	1.41	1.33
4	M8	167	GLU	C-O	-6.26	1.16	1.24
9	z5	35	GLU	CA-C	-6.26	1.43	1.52
10	j5	528	GLU	N-CA	-6.26	1.38	1.46
10	j5	849	LYS	CA-C	-6.26	1.44	1.52
10	j5	1111	VAL	C-O	-6.26	1.16	1.24
10	k5	273	LYS	CA-C	-6.26	1.45	1.52
10	k5	617	TYR	N-CA	-6.26	1.38	1.46
10	k5	1111	VAL	C-O	-6.26	1.16	1.24
10	j5	483	PHE	C-N	-6.25	1.26	1.33
10	k5	616	LEU	CA-C	-6.25	1.44	1.52
4	MA	173	PHE	CA-C	-6.25	1.44	1.52
8	G5	59	PHE	C-O	-6.25	1.15	1.24
9	i5	22	GLU	CA-C	-6.25	1.45	1.53
10	j5	262	TYR	C-O	-6.25	1.15	1.24
10	k5	673	VAL	CA-CB	-6.25	1.46	1.54
4	M9	173	PHE	CA-C	-6.25	1.44	1.52
4	MA	167	GLU	C-O	-6.25	1.16	1.24
10	k5	1033	ARG	CA-C	-6.25	1.44	1.52
4	M8	172	HIS	CA-C	-6.25	1.45	1.52
4	M9	167	GLU	C-O	-6.25	1.16	1.24
4	M3	111	LYS	C-O	-6.25	1.16	1.24
10	j5	670	TYR	CA-C	-6.25	1.44	1.52
4	M1	111	LYS	C-O	-6.25	1.16	1.24
4	MA	220	TYR	C-O	-6.25	1.16	1.23
9	z5	64	ASN	CA-C	-6.25	1.44	1.52
10	j5	447	ALA	C-O	-6.25	1.16	1.24
10	j5	619	GLU	CA-C	-6.25	1.44	1.52
4	M8	111	LYS	C-O	-6.25	1.16	1.24
4	M9	220	TYR	C-O	-6.25	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	586	LEU	CA-C	-6.24	1.45	1.52
10	j5	866	LEU	CA-C	-6.24	1.44	1.52
4	M1	139	VAL	C-O	-6.24	1.16	1.24
9	i5	64	ASN	CA-C	-6.24	1.44	1.52
10	k5	581	TYR	CA-CB	-6.24	1.44	1.53
10	k5	1123	ASN	N-CA	-6.24	1.38	1.46
9	w7	26	THR	C-O	-6.24	1.14	1.23
9	w7	60	VAL	C-O	-6.24	1.16	1.24
4	M4	111	LYS	C-O	-6.24	1.16	1.24
10	j5	346	GLU	CA-CB	-6.24	1.43	1.53
10	k5	868	ASP	C-O	-6.24	1.15	1.24
4	M4	167	GLU	C-O	-6.24	1.16	1.24
4	M8	49	LEU	C-O	-6.24	1.16	1.24
1	h7	37	ARG	C-O	-6.23	1.16	1.24
4	M4	49	LEU	C-O	-6.23	1.16	1.24
4	M4	172	HIS	CA-C	-6.23	1.45	1.52
10	j5	257	THR	CA-C	-6.23	1.45	1.52
10	j5	688	ALA	CA-C	-6.23	1.44	1.52
10	j5	721	LYS	CA-C	-6.23	1.45	1.52
10	j5	792	GLU	CA-CB	-6.23	1.43	1.53
11	a9	464	PRO	CA-C	-6.23	1.46	1.52
11	aA	464	PRO	CA-C	-6.23	1.46	1.52
8	e5	19	SER	C-O	-6.23	1.16	1.24
10	j5	725	LEU	N-CA	-6.23	1.38	1.46
10	k5	717	ARG	CA-C	-6.23	1.44	1.52
10	j5	596	GLY	C-O	-6.23	1.15	1.24
10	k5	596	GLY	C-O	-6.23	1.15	1.24
10	j5	616	LEU	CA-C	-6.22	1.44	1.52
10	j5	771	ALA	N-CA	-6.22	1.37	1.46
4	M4	128	ALA	C-O	-6.22	1.16	1.24
9	x7	43	ARG	C-O	-6.22	1.16	1.24
4	MA	111	LYS	C-O	-6.22	1.16	1.24
4	M9	111	LYS	C-O	-6.22	1.16	1.24
8	I5	18	LEU	CA-C	-6.21	1.44	1.52
10	j5	504	ASP	C-O	-6.21	1.15	1.24
8	g7	16	ARG	C-O	-6.21	1.15	1.23
9	z7	38	PHE	C-O	-6.21	1.16	1.24
8	A5	49	ARG	N-CA	-6.21	1.39	1.46
10	k5	447	ALA	C-O	-6.21	1.16	1.24
11	a9	519	ARG	C-O	-6.21	1.15	1.24
11	aA	519	ARG	C-O	-6.21	1.15	1.24
4	M3	49	LEU	C-O	-6.21	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	413	SER	CA-C	-6.21	1.44	1.52
10	k5	917	LYS	CA-CB	-6.21	1.44	1.53
1	b7	47	ASN	C-O	-6.21	1.15	1.24
4	M1	49	LEU	C-O	-6.21	1.16	1.24
10	j5	273	LYS	CA-C	-6.21	1.45	1.52
10	k5	628	GLU	N-CA	-6.21	1.38	1.46
10	k5	787	GLU	CA-C	-6.21	1.44	1.52
11	aA	361	ALA	C-O	-6.21	1.17	1.24
3	LA	111	ASN	CA-C	-6.21	1.44	1.52
10	k5	528	GLU	N-CA	-6.21	1.38	1.46
8	g7	20	PRO	C-O	-6.21	1.16	1.24
3	L9	111	ASN	CA-C	-6.21	1.44	1.52
10	j5	628	GLU	N-CA	-6.20	1.38	1.46
10	j5	868	ASP	CA-CB	-6.20	1.44	1.53
4	M3	167	GLU	C-O	-6.20	1.16	1.24
8	C5	18	LEU	CA-C	-6.20	1.44	1.52
8	e5	7	ALA	N-CA	6.20	1.54	1.46
10	j5	1121	ALA	CA-C	-6.20	1.44	1.52
10	k5	262	TYR	C-O	-6.20	1.16	1.24
11	a9	38	VAL	CA-C	-6.20	1.46	1.52
11	aA	38	VAL	CA-C	-6.20	1.46	1.52
4	M1	167	GLU	C-O	-6.20	1.16	1.24
4	M3	220	TYR	C-O	-6.20	1.16	1.23
10	k5	346	GLU	CA-CB	-6.20	1.43	1.53
9	z7	26	THR	C-O	-6.20	1.14	1.23
9	z7	60	VAL	C-O	-6.20	1.16	1.24
4	M1	220	TYR	C-O	-6.20	1.16	1.23
10	k5	725	LEU	N-CA	-6.20	1.38	1.46
9	y7	18	ARG	CA-C	-6.20	1.45	1.52
4	M3	139	VAL	C-O	-6.20	1.16	1.24
9	i5	35	GLU	CA-CB	-6.20	1.42	1.53
10	j5	796	ARG	CA-C	-6.20	1.44	1.52
10	j5	818	GLN	CA-C	-6.20	1.44	1.52
10	j5	887	PRO	CA-C	-6.20	1.44	1.52
10	k5	887	PRO	CA-C	-6.20	1.44	1.52
10	j5	345	ARG	CA-C	-6.19	1.44	1.52
10	k5	623	VAL	CA-C	-6.19	1.44	1.52
8	G5	49	ARG	N-CA	-6.19	1.39	1.46
4	M4	49	LEU	CA-C	-6.19	1.44	1.52
10	k5	1123	ASN	CA-C	-6.19	1.44	1.52
8	i7	118	SER	CA-C	-6.19	1.44	1.52
9	y7	43	ARG	C-O	-6.19	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	943	THR	CA-C	-6.19	1.45	1.52
10	k5	1121	ALA	CA-C	-6.19	1.44	1.52
10	k5	586	LEU	CA-C	-6.19	1.45	1.52
10	k5	670	TYR	CA-C	-6.19	1.45	1.52
1	h7	48	ALA	C-O	-6.18	1.16	1.24
10	k5	345	ARG	CA-C	-6.18	1.44	1.52
1	h7	41	ALA	CA-C	-6.18	1.44	1.52
9	x7	18	ARG	CA-C	-6.18	1.45	1.52
4	MA	49	LEU	C-O	-6.18	1.16	1.24
10	j5	1123	ASN	CA-C	-6.18	1.44	1.52
4	M9	49	LEU	C-O	-6.18	1.16	1.24
4	M4	157	PHE	C-O	-6.18	1.15	1.24
9	z5	35	GLU	CA-CB	-6.18	1.43	1.53
10	j5	1123	ASN	N-CA	-6.18	1.38	1.46
10	k5	708	GLY	C-O	-6.18	1.14	1.23
10	k5	792	GLU	CA-CB	-6.18	1.43	1.53
10	k5	1004	VAL	CA-CB	-6.18	1.47	1.54
1	b7	37	ARG	C-O	-6.18	1.16	1.24
10	j5	4	ARG	C-O	-6.17	1.16	1.24
10	k5	849	LYS	CA-C	-6.17	1.44	1.52
10	k5	1088	GLY	C-O	-6.17	1.15	1.24
1	b7	41	ALA	CA-C	-6.17	1.44	1.52
9	i5	21	ARG	CZ-NH1	-6.17	1.24	1.32
10	j5	946	ASP	C-O	-6.17	1.15	1.23
10	k5	483	PHE	C-N	-6.17	1.26	1.33
8	a5	7	ALA	N-CA	6.17	1.54	1.46
4	M3	157	PHE	C-O	-6.17	1.15	1.24
9	z5	21	ARG	CZ-NH1	-6.17	1.24	1.32
10	j5	247	ARG	C-O	-6.17	1.17	1.24
10	k5	247	ARG	C-O	-6.17	1.17	1.24
4	M1	157	PHE	C-O	-6.17	1.15	1.24
10	j5	511	ARG	CZ-NH2	-6.17	1.25	1.33
10	j5	787	GLU	CA-C	-6.17	1.44	1.52
10	k5	424	ARG	CA-C	-6.17	1.46	1.53
10	k5	511	ARG	CZ-NH2	-6.17	1.25	1.33
10	k5	721	LYS	CA-C	-6.17	1.45	1.52
9	w7	38	PHE	C-O	-6.17	1.17	1.24
4	M3	128	ALA	C-O	-6.16	1.16	1.24
8	A5	60	GLN	N-CA	-6.16	1.38	1.46
10	j5	617	TYR	N-CA	-6.16	1.38	1.46
4	M8	157	PHE	C-O	-6.16	1.15	1.24
4	M1	128	ALA	C-O	-6.16	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	A5	59	PHE	C-O	-6.16	1.15	1.24
8	G5	60	GLN	N-CA	-6.16	1.38	1.46
10	j5	493	ASN	C-O	-6.16	1.17	1.24
10	j5	917	LYS	CA-CB	-6.16	1.44	1.53
10	k5	493	ASN	C-O	-6.16	1.17	1.24
8	u7	160	MET	C-O	-6.16	1.16	1.24
11	a9	614	SER	N-CA	-6.16	1.38	1.46
11	aA	614	SER	N-CA	-6.16	1.38	1.46
4	M3	64	GLY	C-O	-6.16	1.14	1.23
8	a5	19	SER	C-O	-6.16	1.16	1.24
11	a9	522	ASP	CA-C	-6.16	1.44	1.52
11	aA	522	ASP	CA-C	-6.16	1.44	1.52
10	j5	639	THR	CB-CG2	-6.16	1.32	1.52
10	k5	639	THR	CB-CG2	-6.16	1.32	1.52
3	LA	112	GLY	C-O	-6.16	1.15	1.24
10	j5	345	ARG	C-O	-6.16	1.16	1.24
10	j5	424	ARG	CA-C	-6.16	1.46	1.53
10	k5	345	ARG	C-O	-6.16	1.16	1.24
1	h7	47	ASN	C-O	-6.16	1.15	1.24
1	b7	39	ARG	C-O	-6.16	1.16	1.24
1	b7	48	ALA	C-O	-6.16	1.17	1.24
3	L9	112	GLY	C-O	-6.16	1.15	1.24
11	a9	361	ALA	C-O	-6.16	1.17	1.24
4	M1	64	GLY	C-O	-6.16	1.14	1.23
4	MA	139	VAL	C-O	-6.15	1.16	1.24
4	M9	139	VAL	C-O	-6.15	1.16	1.24
10	j5	802	VAL	CA-C	-6.15	1.44	1.52
1	h7	39	ARG	C-O	-6.15	1.16	1.24
4	MA	64	GLY	C-O	-6.15	1.14	1.23
4	M4	43	TYR	N-CA	-6.15	1.38	1.45
10	j5	413	SER	CA-C	-6.15	1.44	1.52
10	j5	786	SER	C-O	-6.15	1.15	1.24
8	o7	7	ALA	CA-C	-6.15	1.43	1.52
4	M9	64	GLY	C-O	-6.15	1.14	1.23
10	j5	587	LYS	C-N	-6.15	1.25	1.33
10	k5	786	SER	C-O	-6.15	1.15	1.24
8	a7	16	ARG	C-O	-6.15	1.16	1.23
9	w7	6	LYS	C-O	-6.15	1.17	1.24
4	M3	57	THR	CA-CB	-6.14	1.43	1.53
10	j5	469	GLN	CD-NE2	-6.14	1.20	1.33
10	k5	469	GLN	CD-NE2	-6.14	1.20	1.33
4	M1	57	THR	CA-CB	-6.14	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	916	PHE	C-O	-6.14	1.16	1.24
4	MA	128	ALA	C-O	-6.14	1.16	1.24
10	j5	1088	GLY	C-O	-6.14	1.15	1.24
4	M9	128	ALA	C-O	-6.14	1.16	1.24
8	e5	123	ILE	CA-CB	6.14	1.57	1.54
9	i5	57	PHE	C-O	-6.14	1.16	1.24
8	c7	117	ASN	CA-C	-6.14	1.44	1.52
10	k5	769	THR	CB-CG2	-6.14	1.32	1.52
4	M8	43	TYR	N-CA	-6.14	1.38	1.45
10	j5	876	TYR	CA-CB	-6.13	1.45	1.54
10	k5	504	ASP	C-O	-6.13	1.15	1.24
10	k5	870	GLU	N-CA	-6.13	1.38	1.46
10	k5	876	TYR	CA-CB	-6.13	1.45	1.54
10	k5	771	ALA	N-CA	-6.13	1.37	1.46
4	M3	43	TYR	N-CA	-6.13	1.38	1.45
11	a9	420	ASN	C-O	-6.13	1.16	1.24
11	aA	420	ASN	C-O	-6.13	1.16	1.24
4	M1	43	TYR	N-CA	-6.13	1.38	1.45
10	j5	622	TYR	CZ-OH	-6.13	1.25	1.38
10	k5	622	TYR	CZ-OH	-6.13	1.25	1.38
10	k5	868	ASP	CA-CB	-6.13	1.44	1.53
4	M8	115	GLY	C-O	-6.13	1.17	1.24
4	MA	57	THR	CA-CB	-6.13	1.43	1.53
4	MA	157	PHE	C-O	-6.13	1.15	1.24
4	M9	57	THR	CA-CB	-6.13	1.43	1.53
4	M9	157	PHE	C-O	-6.13	1.15	1.24
10	j5	645	ASN	CG-ND2	-6.12	1.20	1.33
8	C5	12	ASP	C-O	-6.12	1.16	1.24
10	k5	796	ARG	CA-C	-6.12	1.44	1.52
4	M8	49	LEU	CA-C	-6.12	1.44	1.52
10	j5	626	ALA	CA-CB	-6.12	1.43	1.53
10	j5	708	GLY	C-O	-6.12	1.14	1.23
10	j5	769	THR	CB-CG2	-6.12	1.32	1.52
10	k5	802	VAL	CA-C	-6.12	1.44	1.52
8	u7	7	ALA	CA-C	-6.12	1.43	1.52
10	j5	522	ASN	CA-C	-6.12	1.43	1.52
9	w7	61	GLN	C-O	-6.12	1.17	1.24
1	D5	13	ASP	C-O	-6.12	1.15	1.23
8	I5	12	ASP	C-O	-6.12	1.16	1.24
4	M8	64	GLY	C-O	-6.12	1.14	1.23
10	j5	870	GLU	N-CA	-6.12	1.38	1.46
4	M4	64	GLY	C-O	-6.11	1.14	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	407	ASP	C-O	-6.11	1.15	1.24
10	j5	680	PRO	CA-C	-6.11	1.45	1.52
4	MA	49	LEU	CA-C	-6.11	1.44	1.52
10	k5	413	SER	C-O	-6.11	1.16	1.24
8	c7	118	SER	CA-C	-6.11	1.45	1.52
1	D5	6	THR	C-O	-6.10	1.15	1.24
8	o7	160	MET	C-O	-6.10	1.16	1.24
10	j5	916	PHE	C-O	-6.10	1.16	1.24
10	j5	925	ILE	C-O	-6.10	1.15	1.24
10	k5	680	PRO	CA-C	-6.10	1.45	1.52
10	j5	274	MET	C-O	-6.10	1.16	1.23
9	z7	6	LYS	C-O	-6.10	1.17	1.24
10	j5	459	PHE	N-CA	-6.10	1.39	1.46
10	k5	946	ASP	C-O	-6.10	1.15	1.23
4	M4	115	GLY	C-O	-6.10	1.17	1.24
10	j5	691	SER	CA-C	-6.09	1.43	1.52
10	k5	691	SER	CA-C	-6.09	1.43	1.52
11	a9	419	ARG	CA-C	-6.09	1.45	1.52
11	aA	419	ARG	CA-C	-6.09	1.45	1.52
10	k5	954	GLU	CA-C	-6.09	1.44	1.52
8	A5	49	ARG	CA-C	-6.09	1.45	1.52
10	k5	645	ASN	CG-ND2	-6.09	1.20	1.33
10	j5	633	ARG	N-CA	-6.09	1.38	1.46
10	j5	724	GLU	CA-C	-6.09	1.43	1.52
10	k5	633	ARG	N-CA	-6.09	1.38	1.46
10	k5	724	GLU	CA-C	-6.09	1.43	1.52
10	k5	3	ILE	CA-C	-6.09	1.45	1.52
10	k5	268	SER	C-O	-6.09	1.14	1.24
10	k5	925	ILE	C-O	-6.09	1.15	1.24
9	z7	61	GLN	C-O	-6.09	1.17	1.24
4	M8	57	THR	CA-CB	-6.09	1.43	1.53
4	M4	57	THR	CA-CB	-6.08	1.43	1.53
4	MA	43	TYR	N-CA	-6.08	1.38	1.45
9	z5	36	ASN	CA-C	-6.08	1.44	1.52
4	M9	43	TYR	N-CA	-6.08	1.38	1.45
9	z5	39	THR	CB-CG2	-6.08	1.32	1.52
9	i5	39	THR	CB-CG2	-6.08	1.32	1.52
10	j5	1010	GLY	C-O	-6.08	1.15	1.23
4	M3	49	LEU	CA-C	-6.08	1.44	1.52
10	k5	587	LYS	C-N	-6.08	1.25	1.33
4	M1	49	LEU	CA-C	-6.08	1.44	1.52
4	MA	239	PHE	C-O	-6.08	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J5	6	THR	C-O	-6.08	1.15	1.24
4	M9	239	PHE	C-O	-6.08	1.17	1.24
10	j5	575	ILE	CA-C	-6.08	1.45	1.52
8	G5	49	ARG	CA-C	-6.07	1.45	1.52
1	J5	13	ASP	C-O	-6.07	1.15	1.23
10	k5	522	ASN	CA-C	-6.07	1.43	1.52
3	LA	116	THR	CA-C	-6.07	1.45	1.52
10	j5	268	SER	C-O	-6.07	1.14	1.24
3	L9	116	THR	CA-C	-6.07	1.45	1.52
10	j5	954	GLU	CA-C	-6.07	1.44	1.52
8	i7	117	ASN	CA-C	-6.07	1.44	1.52
4	M4	59	ILE	CA-CB	-6.07	1.46	1.54
10	j5	184	LEU	CA-C	-6.07	1.44	1.52
10	k5	184	LEU	CA-C	-6.07	1.44	1.52
10	j5	3	ILE	CA-C	-6.06	1.45	1.52
10	j5	413	SER	C-O	-6.06	1.16	1.24
8	o7	46	ALA	C-O	-6.06	1.16	1.24
9	x7	24	GLN	CA-C	-6.06	1.44	1.52
9	y7	23	LEU	C-O	-6.06	1.16	1.24
10	j5	750	ARG	CZ-NH2	-6.06	1.25	1.33
9	y7	24	GLN	CA-C	-6.06	1.44	1.52
9	i5	36	ASN	CA-C	-6.06	1.44	1.52
10	j5	219	ASP	CB-CG	6.06	1.67	1.52
10	k5	1010	GLY	C-O	-6.06	1.15	1.23
4	M8	59	ILE	CA-CB	-6.06	1.46	1.54
4	MA	94	TRP	C-O	-6.06	1.15	1.23
10	j5	407	ASP	C-O	-6.06	1.15	1.24
10	j5	612	ILE	CB-CG1	-6.06	1.41	1.53
10	k5	612	ILE	CB-CG1	-6.06	1.41	1.53
1	b7	49	THR	C-O	-6.06	1.16	1.24
4	M9	94	TRP	C-O	-6.06	1.15	1.23
1	b7	44	ILE	CA-CB	-6.05	1.46	1.54
10	k5	1044	ASN	C-O	-6.05	1.16	1.24
10	j5	998	ASN	C-O	-6.05	1.17	1.24
10	k5	998	ASN	C-O	-6.05	1.17	1.24
4	M9	49	LEU	CA-C	-6.05	1.44	1.52
8	W5	123	ILE	CA-CB	6.05	1.57	1.54
1	h7	49	THR	C-O	-6.05	1.16	1.24
10	j5	380	SER	CA-CB	-6.05	1.43	1.53
10	k5	626	ALA	CA-CB	-6.05	1.43	1.53
8	a5	123	ILE	CA-CB	6.04	1.57	1.54
10	j5	676	GLU	CA-CB	-6.04	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	459	PHE	N-CA	-6.04	1.39	1.46
10	k5	676	GLU	CA-CB	-6.04	1.40	1.53
4	M3	94	TRP	C-O	-6.04	1.15	1.23
8	G5	48	GLU	C-O	-6.04	1.17	1.24
4	M1	94	TRP	C-O	-6.04	1.15	1.23
4	MA	115	GLY	C-O	-6.04	1.17	1.24
9	x7	13	SER	CA-C	-6.04	1.44	1.52
4	M9	115	GLY	C-O	-6.04	1.17	1.24
4	M3	59	ILE	CA-CB	-6.04	1.47	1.54
10	j5	765	ASP	CA-C	-6.04	1.44	1.52
10	k5	219	ASP	CB-CG	6.04	1.67	1.52
10	k5	380	SER	CA-CB	-6.04	1.43	1.53
10	k5	765	ASP	CA-C	-6.04	1.44	1.52
4	M1	59	ILE	CA-CB	-6.04	1.47	1.54
10	k5	370	GLU	CA-C	-6.04	1.43	1.52
10	k5	1114	ARG	C-O	-6.04	1.16	1.23
8	u7	46	ALA	C-O	-6.04	1.16	1.24
10	j5	482	GLN	CA-CB	-6.04	1.44	1.53
9	y7	13	SER	CA-C	-6.04	1.44	1.52
10	j5	216	ASP	CA-C	-6.03	1.44	1.53
4	MA	59	ILE	CA-CB	-6.03	1.47	1.54
10	k5	662	ASP	CA-CB	-6.03	1.42	1.53
4	M9	59	ILE	CA-CB	-6.03	1.47	1.54
10	k5	482	GLN	CA-CB	-6.03	1.44	1.53
10	j5	170	ALA	CA-C	-6.03	1.45	1.52
10	j5	472	TYR	CE1-CZ	-6.03	1.23	1.38
1	h7	44	ILE	CA-CB	-6.03	1.46	1.54
4	M3	239	PHE	C-O	-6.03	1.17	1.24
4	M4	239	PHE	C-O	-6.03	1.17	1.24
10	j5	783	TYR	CA-CB	-6.03	1.43	1.53
10	k5	783	TYR	CA-CB	-6.03	1.43	1.53
10	j5	431	GLN	C-O	-6.02	1.15	1.23
10	j5	615	LYS	N-CA	-6.02	1.39	1.46
10	k5	901	TYR	CZ-OH	-6.02	1.25	1.38
4	M8	68	ASP	CA-CB	-6.02	1.43	1.53
10	k5	472	TYR	CE1-CZ	-6.02	1.23	1.38
10	k5	575	ILE	CA-C	-6.02	1.45	1.52
10	j5	435	ASN	CG-OD1	-6.02	1.12	1.23
10	j5	901	TYR	CZ-OH	-6.02	1.25	1.38
10	k5	435	ASN	CG-OD1	-6.02	1.12	1.23
4	M4	94	TRP	C-O	-6.01	1.15	1.23
8	A5	123	ILE	CA-CB	6.01	1.57	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	455	PHE	N-CA	-6.01	1.38	1.46
10	k5	779	ASP	CB-CG	-6.01	1.37	1.52
10	j5	152	ARG	C-O	-6.01	1.17	1.24
10	j5	511	ARG	CD-NE	-6.01	1.37	1.46
10	j5	632	ARG	CZ-NH1	-6.01	1.24	1.32
10	j5	1044	ASN	C-O	-6.01	1.16	1.24
10	k5	632	ARG	CZ-NH1	-6.01	1.24	1.32
9	z7	63	ALA	C-O	-6.01	1.16	1.24
10	k5	797	ASN	N-CA	-6.01	1.38	1.46
10	j5	36	ASN	CA-C	-6.01	1.45	1.53
10	j5	370	GLU	CA-C	-6.01	1.43	1.52
10	j5	900	LEU	CA-C	-6.01	1.45	1.52
10	k5	467	PRO	CA-CB	-6.01	1.44	1.53
9	w7	41	GLN	CD-NE2	-6.01	1.20	1.33
10	k5	371	SER	C-O	-6.00	1.16	1.23
10	k5	729	ILE	N-CA	6.00	1.53	1.46
10	k5	750	ARG	CZ-NH2	-6.00	1.25	1.33
1	b7	41	ALA	C-O	-6.00	1.16	1.24
4	M3	115	GLY	C-O	-6.00	1.17	1.24
10	j5	662	ASP	CA-CB	-6.00	1.42	1.53
10	k5	615	LYS	N-CA	-6.00	1.39	1.46
10	k5	800	THR	C-O	-6.00	1.16	1.23
10	k5	882	PRO	N-CA	-6.00	1.39	1.47
9	z7	41	GLN	CD-NE2	-6.00	1.20	1.33
4	M1	115	GLY	C-O	-6.00	1.17	1.24
10	k5	274	MET	C-O	-6.00	1.16	1.23
4	M1	239	PHE	C-O	-6.00	1.17	1.24
10	j5	800	THR	C-O	-6.00	1.16	1.23
10	k5	216	ASP	CA-C	-6.00	1.44	1.53
4	M8	48	PRO	CA-CB	-6.00	1.45	1.53
11	a9	473	HIS	CA-C	-6.00	1.45	1.52
11	aA	473	HIS	CA-C	-6.00	1.45	1.52
8	K5	117	ASN	C-O	-6.00	1.17	1.24
10	k5	900	LEU	CA-C	-6.00	1.45	1.52
4	M4	68	ASP	CA-CB	-5.99	1.43	1.53
10	j5	467	PRO	CA-CB	-5.99	1.44	1.53
10	j5	779	ASP	CB-CG	-5.99	1.37	1.52
10	k5	36	ASN	CA-C	-5.99	1.45	1.53
8	c7	115	MET	C-O	-5.99	1.17	1.24
10	k5	701	ASP	N-CA	-5.99	1.39	1.46
11	a9	802	ARG	CA-C	-5.99	1.45	1.52
11	aA	802	ARG	CA-C	-5.99	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	O7	123	ILE	CA-CB	5.98	1.57	1.54
10	j5	17	PHE	C-O	-5.98	1.16	1.23
10	j5	788	PHE	C-O	-5.98	1.15	1.23
10	k5	17	PHE	C-O	-5.98	1.16	1.23
1	D5	12	TYR	N-CA	-5.98	1.38	1.46
10	j5	1114	ARG	C-O	-5.98	1.16	1.23
8	E5	117	ASN	C-O	-5.98	1.17	1.24
10	j5	992	GLU	C-O	-5.98	1.17	1.24
10	k5	431	GLN	C-O	-5.98	1.15	1.23
9	w7	32	VAL	C-O	-5.98	1.16	1.24
4	M3	68	ASP	CA-CB	-5.98	1.43	1.53
8	A5	48	GLU	C-O	-5.98	1.17	1.24
10	j5	712	ARG	CZ-NH2	-5.98	1.25	1.33
9	w7	40	GLU	N-CA	-5.98	1.38	1.46
4	M1	68	ASP	CA-CB	-5.98	1.43	1.53
4	M4	48	PRO	CA-CB	-5.97	1.45	1.53
10	k5	855	GLY	CA-C	-5.97	1.45	1.52
1	h7	41	ALA	C-O	-5.97	1.16	1.24
1	L5	3	ASP	C-O	-5.97	1.15	1.24
8	o7	58	LEU	N-CA	-5.97	1.39	1.46
3	L9	90	LEU	C-O	-5.97	1.17	1.24
10	k5	784	ILE	CA-C	-5.97	1.46	1.52
10	j5	555	ALA	CA-C	-5.97	1.45	1.52
9	w7	63	ALA	C-O	-5.97	1.16	1.24
10	k5	788	PHE	C-O	-5.97	1.15	1.23
9	z7	32	VAL	C-O	-5.97	1.17	1.24
10	j5	855	GLY	CA-C	-5.96	1.45	1.52
4	M8	239	PHE	C-O	-5.96	1.17	1.24
8	u7	81	CYS	CA-C	-5.96	1.45	1.52
8	i7	115	MET	C-O	-5.96	1.17	1.24
10	j5	371	SER	C-O	-5.96	1.16	1.23
10	k5	515	PRO	CA-CB	-5.96	1.45	1.53
9	z7	26	THR	CA-C	-5.96	1.44	1.52
4	M3	48	PRO	CA-CB	-5.96	1.45	1.53
4	M1	48	PRO	CA-CB	-5.96	1.45	1.53
10	j5	455	PHE	N-CA	-5.95	1.38	1.46
10	j5	729	ILE	N-CA	5.95	1.53	1.46
10	k5	511	ARG	CD-NE	-5.95	1.38	1.46
9	w7	26	THR	CA-C	-5.95	1.44	1.52
4	M4	236	ASN	C-O	-5.95	1.16	1.24
10	k5	574	GLN	CA-C	-5.95	1.46	1.52
10	j5	524	THR	C-O	-5.95	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	770	ALA	CA-CB	-5.95	1.43	1.53
10	k5	584	GLN	CA-C	-5.95	1.45	1.52
1	F5	3	ASP	C-O	-5.95	1.15	1.24
10	k5	152	ARG	C-O	-5.95	1.17	1.24
1	J5	12	TYR	N-CA	-5.95	1.38	1.46
10	j5	618	TRP	C-N	-5.95	1.25	1.33
9	x7	23	LEU	C-O	-5.95	1.17	1.24
10	k5	575	ILE	N-CA	-5.94	1.39	1.46
10	k5	914	PRO	C-O	-5.94	1.16	1.24
3	FA	152	ASP	C-O	-5.94	1.17	1.24
10	j5	584	GLN	CA-C	-5.94	1.45	1.52
10	k5	733	SER	C-O	-5.94	1.16	1.24
9	z7	57	PHE	C-O	-5.94	1.16	1.24
10	j5	537	ILE	CA-C	-5.94	1.44	1.52
10	j5	575	ILE	N-CA	-5.94	1.39	1.46
10	k5	449	ARG	N-CA	-5.94	1.38	1.46
10	k5	537	ILE	CA-C	-5.94	1.44	1.52
10	k5	555	ALA	CA-C	-5.94	1.45	1.52
10	k5	770	ALA	CA-CB	-5.94	1.43	1.53
9	w7	57	PHE	C-O	-5.94	1.16	1.24
3	LA	90	LEU	C-O	-5.93	1.17	1.24
4	M3	52	LEU	CA-C	-5.93	1.45	1.52
10	k5	712	ARG	CZ-NH2	-5.93	1.25	1.33
1	h7	30	TYR	C-O	-5.93	1.17	1.24
4	M1	52	LEU	CA-C	-5.93	1.45	1.52
4	M3	45	VAL	CA-C	-5.93	1.45	1.52
10	j5	549	LYS	CA-C	5.93	1.60	1.52
10	j5	607	LEU	CA-C	-5.93	1.45	1.52
10	k5	549	LYS	CA-C	5.93	1.60	1.52
10	k5	1101	GLU	C-O	-5.93	1.17	1.24
4	M1	45	VAL	CA-C	-5.93	1.45	1.52
10	k5	731	GLU	C-O	-5.93	1.16	1.23
1	D5	2	GLN	C-O	-5.93	1.16	1.23
10	j5	797	ASN	N-CA	-5.93	1.38	1.46
10	j5	857	LYS	C-O	-5.93	1.15	1.24
10	k5	857	LYS	C-O	-5.93	1.15	1.24
1	h7	36	VAL	C-O	-5.93	1.16	1.24
9	z7	40	GLU	N-CA	-5.93	1.38	1.46
4	M3	230	GLN	C-O	-5.93	1.16	1.24
4	M1	230	GLN	C-O	-5.93	1.16	1.24
1	J5	2	GLN	C-O	-5.93	1.16	1.23
10	j5	576	PHE	CA-CB	-5.93	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	731	GLU	C-O	-5.92	1.16	1.23
10	k5	817	LYS	CA-C	-5.92	1.45	1.52
8	S7	123	ILE	CA-CB	5.92	1.57	1.54
4	M8	236	ASN	C-O	-5.92	1.16	1.24
4	MA	236	ASN	C-O	-5.92	1.16	1.24
1	b7	36	VAL	C-O	-5.92	1.16	1.24
4	M9	236	ASN	C-O	-5.92	1.16	1.24
10	k5	170	ALA	C-O	-5.92	1.17	1.24
10	k5	246	VAL	C-O	-5.92	1.17	1.24
4	MA	72	ALA	C-O	-5.92	1.17	1.24
10	j5	935	LEU	CA-C	-5.92	1.44	1.52
10	k5	935	LEU	CA-C	-5.92	1.44	1.52
4	M9	72	ALA	C-O	-5.92	1.17	1.24
4	MA	48	PRO	CA-CB	-5.92	1.45	1.53
10	j5	584	GLN	N-CA	-5.92	1.39	1.46
10	k5	584	GLN	N-CA	-5.92	1.39	1.46
4	M9	48	PRO	CA-CB	-5.92	1.45	1.53
3	LA	83	LEU	C-O	-5.92	1.16	1.24
4	MA	68	ASP	CA-CB	-5.92	1.43	1.53
10	j5	714	ASP	CA-C	-5.92	1.44	1.52
10	k5	714	ASP	CA-C	-5.92	1.44	1.52
4	M9	68	ASP	CA-CB	-5.92	1.43	1.53
9	z7	23	LEU	C-O	-5.92	1.16	1.24
10	k5	524	THR	C-O	-5.91	1.15	1.23
4	M8	72	ALA	C-O	-5.91	1.17	1.24
3	L9	83	LEU	C-O	-5.91	1.16	1.24
10	j5	574	GLN	CA-C	-5.91	1.46	1.52
10	j5	727	THR	C-O	-5.91	1.18	1.24
10	k5	727	THR	C-O	-5.91	1.18	1.24
10	k5	907	GLN	CA-C	-5.91	1.45	1.52
8	q7	123	ILE	CA-CB	5.91	1.57	1.54
10	j5	582	GLN	CA-CB	-5.91	1.44	1.53
10	j5	914	PRO	C-O	-5.91	1.16	1.24
10	k5	582	GLN	CA-CB	-5.91	1.44	1.53
8	c7	136	VAL	CA-CB	-5.90	1.47	1.54
4	MA	52	LEU	CA-C	-5.90	1.45	1.52
10	j5	507	ARG	CZ-NH2	-5.90	1.25	1.33
10	j5	515	PRO	CA-CB	-5.90	1.45	1.53
10	j5	683	ARG	N-CA	-5.90	1.38	1.46
10	j5	882	PRO	N-CA	-5.90	1.39	1.47
10	j5	907	GLN	CA-C	-5.90	1.45	1.52
10	k5	683	ARG	N-CA	-5.90	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M9	52	LEU	CA-C	-5.90	1.45	1.52
4	M1	72	ALA	C-O	-5.90	1.17	1.24
10	j5	701	ASP	N-CA	-5.90	1.39	1.46
10	j5	996	ALA	N-CA	-5.90	1.39	1.46
10	k5	996	ALA	N-CA	-5.90	1.39	1.46
8	i7	136	VAL	CA-CB	-5.90	1.47	1.54
11	a9	490	ILE	CA-C	-5.90	1.45	1.52
11	aA	490	ILE	CA-C	-5.90	1.45	1.52
8	Q5	123	ILE	CA-CB	5.90	1.57	1.54
10	k5	170	ALA	CA-C	-5.90	1.45	1.52
10	j5	449	ARG	N-CA	-5.90	1.38	1.46
10	j5	690	LEU	C-N	-5.90	1.25	1.33
10	j5	778	LYS	CA-C	-5.90	1.44	1.52
10	k5	690	LEU	C-N	-5.90	1.25	1.33
8	C5	24	ASP	C-O	-5.89	1.17	1.23
10	j5	343	TYR	CA-CB	-5.89	1.44	1.53
10	k5	398	LEU	CA-CB	-5.89	1.44	1.53
10	k5	956	GLY	C-O	-5.89	1.16	1.23
10	k5	992	GLU	C-O	-5.89	1.17	1.24
4	M4	45	VAL	CA-C	-5.89	1.45	1.52
10	j5	979	GLU	C-O	-5.89	1.17	1.24
10	k5	836	PHE	CA-C	-5.89	1.45	1.52
10	k5	979	GLU	C-O	-5.89	1.17	1.24
8	o7	81	CYS	CA-C	-5.89	1.45	1.52
9	w7	23	LEU	C-O	-5.88	1.16	1.24
10	j5	457	THR	CB-CG2	-5.88	1.33	1.52
9	z7	3	ARG	C-O	-5.88	1.16	1.23
10	j5	824	PRO	CA-CB	-5.88	1.45	1.53
10	k5	343	TYR	CA-CB	-5.88	1.44	1.53
10	k5	618	TRP	C-N	-5.88	1.25	1.33
4	M8	17	VAL	CA-C	-5.88	1.45	1.52
10	k5	607	LEU	CA-C	-5.88	1.45	1.52
8	Q7	123	ILE	CA-CB	5.87	1.57	1.54
4	M3	72	ALA	C-O	-5.87	1.17	1.24
8	I5	24	ASP	C-O	-5.87	1.17	1.23
10	j5	733	SER	C-O	-5.87	1.16	1.24
10	k5	507	ARG	CZ-NH2	-5.87	1.25	1.33
10	j5	13	ARG	C-O	-5.87	1.20	1.25
10	j5	687	PRO	CA-C	-5.87	1.43	1.52
10	k5	13	ARG	C-O	-5.87	1.20	1.25
10	k5	457	THR	CB-CG2	-5.87	1.33	1.52
4	M8	52	LEU	CA-C	-5.87	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	MA	45	VAL	CA-C	-5.87	1.45	1.52
10	j5	1089	LEU	C-O	-5.87	1.17	1.24
9	x7	7	VAL	C-O	-5.87	1.17	1.24
4	M9	45	VAL	CA-C	-5.87	1.45	1.52
10	j5	817	LYS	CA-C	-5.86	1.45	1.52
10	k5	514	SER	CA-C	-5.86	1.45	1.53
10	k5	576	PHE	CA-CB	-5.86	1.45	1.54
8	u7	123	ILE	CA-CB	5.86	1.57	1.54
8	S5	123	ILE	CA-CB	5.86	1.57	1.54
10	j5	169	TYR	C-O	-5.86	1.17	1.24
9	w7	3	ARG	C-O	-5.86	1.16	1.23
8	u7	58	LEU	N-CA	-5.86	1.39	1.46
4	M3	236	ASN	C-O	-5.85	1.16	1.24
4	M4	52	LEU	CA-C	-5.85	1.45	1.52
4	M8	45	VAL	CA-C	-5.85	1.45	1.52
4	M1	236	ASN	C-O	-5.85	1.16	1.24
9	z5	59	GLY	C-O	-5.85	1.18	1.23
10	j5	978	LEU	CA-C	-5.85	1.44	1.52
10	j5	956	GLY	C-O	-5.85	1.16	1.23
1	b7	30	TYR	C-O	-5.85	1.17	1.24
10	j5	514	SER	CA-C	-5.85	1.45	1.53
10	j5	413	SER	N-CA	-5.85	1.38	1.46
10	k5	978	LEU	CA-C	-5.84	1.44	1.52
4	MA	43	TYR	C-O	-5.84	1.16	1.23
10	j5	314	GLN	C-O	-5.84	1.16	1.23
10	k5	314	GLN	C-O	-5.84	1.16	1.23
8	a7	123	ILE	CA-CB	5.84	1.57	1.54
4	M9	43	TYR	C-O	-5.84	1.16	1.23
4	M8	174	LEU	C-O	-5.84	1.16	1.24
10	k5	169	TYR	C-O	-5.84	1.17	1.24
4	M3	43	TYR	C-O	-5.83	1.16	1.23
10	k5	413	SER	N-CA	-5.83	1.38	1.46
4	M8	230	GLN	CA-C	-5.83	1.47	1.53
4	M1	43	TYR	C-O	-5.83	1.16	1.23
4	M4	72	ALA	C-O	-5.83	1.17	1.24
8	e5	16	ARG	C-O	-5.83	1.16	1.24
10	j5	900	LEU	N-CA	-5.83	1.39	1.46
4	M3	181	GLN	C-O	-5.83	1.16	1.24
4	M4	230	GLN	C-O	-5.83	1.17	1.24
9	z5	46	LYS	CA-CB	-5.83	1.43	1.53
10	j5	398	LEU	CA-CB	-5.83	1.44	1.53
10	j5	1101	GLU	C-O	-5.83	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M1	181	GLN	C-O	-5.83	1.16	1.24
4	MA	230	GLN	C-O	-5.83	1.17	1.24
10	k5	778	LYS	CA-C	-5.83	1.45	1.52
9	x7	32	VAL	C-O	-5.83	1.17	1.24
4	M9	230	GLN	C-O	-5.83	1.17	1.24
8	U5	123	ILE	CA-CB	5.83	1.57	1.54
10	j5	170	ALA	C-O	-5.83	1.17	1.24
10	j5	632	ARG	C-N	-5.83	1.26	1.33
8	k7	123	ILE	CA-CB	5.83	1.57	1.54
3	F9	152	ASP	C-O	-5.83	1.17	1.24
10	j5	246	VAL	C-O	-5.83	1.17	1.24
10	k5	263	LYS	N-CA	-5.83	1.38	1.46
10	k5	687	PRO	CA-C	-5.83	1.43	1.52
1	J5	5	ILE	CA-C	-5.83	1.44	1.52
10	j5	373	ALA	C-N	-5.83	1.25	1.34
10	k5	373	ALA	C-N	-5.83	1.25	1.34
8	g7	123	ILE	CA-CB	5.83	1.57	1.54
8	o7	47	ARG	CA-C	-5.83	1.45	1.52
4	M8	36	TYR	CA-C	-5.83	1.45	1.53
4	MA	17	VAL	CA-C	-5.82	1.45	1.52
10	j5	597	GLU	CA-CB	-5.82	1.43	1.53
10	k5	519	GLU	CA-C	-5.82	1.42	1.53
8	W7	123	ILE	CA-CB	5.82	1.57	1.54
4	M9	17	VAL	CA-C	-5.82	1.45	1.52
8	a5	16	ARG	C-O	-5.82	1.16	1.24
10	j5	979	GLU	CA-C	-5.82	1.45	1.52
10	j5	486	ILE	CA-C	-5.82	1.45	1.52
10	j5	836	PHE	CA-C	-5.82	1.45	1.52
10	k5	486	ILE	CA-C	-5.82	1.45	1.52
10	k5	865	ALA	CA-C	-5.82	1.45	1.52
8	u7	47	ARG	CA-C	-5.82	1.45	1.52
4	M8	43	TYR	C-O	-5.82	1.16	1.23
8	I5	16	ARG	C-O	-5.81	1.16	1.24
10	j5	263	LYS	N-CA	-5.81	1.38	1.46
11	a9	49	TRP	CA-C	-5.81	1.44	1.52
11	aA	49	TRP	CA-C	-5.81	1.44	1.52
10	j5	151	GLU	C-O	-5.81	1.17	1.24
9	x7	25	ASN	N-CA	-5.81	1.39	1.46
4	M8	62	LYS	N-CA	-5.81	1.38	1.46
1	D5	7	ALA	CA-CB	-5.81	1.44	1.53
10	k5	644	GLU	CA-CB	-5.81	1.44	1.53
3	H2	84	ARG	C-O	-5.81	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M3	163	ASN	CA-C	-5.81	1.45	1.52
10	k5	344	ARG	CA-C	-5.81	1.45	1.52
3	H6	84	ARG	C-O	-5.81	1.17	1.24
4	M1	163	ASN	CA-C	-5.81	1.45	1.52
4	M3	174	LEU	C-O	-5.81	1.16	1.24
4	M1	174	LEU	C-O	-5.81	1.16	1.24
4	M4	36	TYR	CA-C	-5.80	1.45	1.53
10	j5	519	GLU	CA-C	-5.80	1.42	1.53
9	y7	7	VAL	C-O	-5.80	1.17	1.24
4	M1	36	TYR	CA-C	-5.80	1.45	1.53
10	j5	678	VAL	CA-C	-5.80	1.46	1.52
10	j5	876	TYR	CB-CG	-5.80	1.38	1.51
10	k5	498	ALA	CA-CB	-5.80	1.42	1.53
10	k5	876	TYR	CB-CG	-5.80	1.38	1.51
4	M8	130	SER	CA-C	-5.80	1.45	1.52
1	J5	7	ALA	CA-CB	-5.80	1.44	1.53
4	M4	43	TYR	C-O	-5.80	1.16	1.23
10	j5	1105	ILE	CA-CB	-5.80	1.47	1.54
10	k5	900	LEU	N-CA	-5.80	1.39	1.46
10	j5	382	ILE	CB-CG1	-5.80	1.41	1.53
10	k5	382	ILE	CB-CG1	-5.80	1.41	1.53
9	z7	51	VAL	C-O	-5.80	1.17	1.24
10	k5	979	GLU	CA-C	-5.79	1.45	1.52
10	k5	1089	LEU	C-O	-5.79	1.17	1.24
9	i5	46	LYS	CA-CB	-5.79	1.43	1.53
10	j5	533	LEU	C-O	-5.79	1.16	1.24
10	k5	533	LEU	C-O	-5.79	1.16	1.24
10	j5	934	ALA	C-O	-5.79	1.16	1.24
8	M7	123	ILE	CA-CB	5.79	1.57	1.54
10	j5	183	CYS	CA-C	-5.79	1.45	1.52
10	j5	371	SER	CA-CB	-5.79	1.44	1.53
8	m7	123	ILE	CA-CB	5.79	1.57	1.54
3	LA	91	ARG	CA-C	-5.79	1.45	1.52
4	MA	174	LEU	C-O	-5.79	1.16	1.24
9	i5	59	GLY	C-O	-5.79	1.18	1.23
10	k5	824	PRO	CA-CB	-5.79	1.45	1.53
10	k5	1000	ILE	C-O	-5.79	1.17	1.24
3	L9	91	ARG	CA-C	-5.79	1.45	1.52
4	M9	174	LEU	C-O	-5.79	1.16	1.24
11	a9	627	GLN	C-O	-5.79	1.17	1.24
11	aA	627	GLN	C-O	-5.79	1.17	1.24
4	M4	62	LYS	N-CA	-5.78	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	z5	3	ARG	CA-C	-5.78	1.45	1.52
10	j5	507	ARG	CA-C	-5.78	1.45	1.52
10	k5	597	GLU	CA-CB	-5.78	1.43	1.53
9	z7	50	LYS	C-O	-5.78	1.16	1.23
9	y7	32	VAL	C-O	-5.78	1.17	1.24
4	M4	17	VAL	CA-C	-5.78	1.45	1.52
10	j5	6	THR	CB-CG2	-5.78	1.33	1.52
10	k5	6	THR	CB-CG2	-5.78	1.33	1.52
8	O5	123	ILE	CA-CB	5.78	1.57	1.54
1	D5	5	ILE	CA-C	-5.78	1.44	1.52
8	G5	123	ILE	CA-CB	5.78	1.57	1.54
9	z5	68	GLY	CA-C	-5.78	1.43	1.51
8	o7	123	ILE	CA-CB	5.78	1.57	1.54
10	j5	498	ALA	CA-CB	-5.78	1.42	1.53
10	k5	632	ARG	C-N	-5.78	1.26	1.33
10	j5	630	ILE	CA-C	-5.77	1.44	1.52
8	s7	123	ILE	CA-CB	5.77	1.57	1.54
4	M8	163	ASN	CA-C	-5.77	1.45	1.52
4	MA	36	TYR	CA-C	-5.77	1.45	1.53
10	k5	507	ARG	CA-C	-5.77	1.45	1.52
4	M9	36	TYR	CA-C	-5.77	1.45	1.53
4	M3	12	GLY	C-N	-5.77	1.25	1.33
10	j5	644	GLU	CA-CB	-5.77	1.44	1.53
10	j5	722	ILE	CA-C	-5.77	1.45	1.52
4	M1	12	GLY	C-N	-5.77	1.25	1.33
10	j5	423	LEU	CA-C	-5.77	1.45	1.52
10	k5	396	GLY	C-O	-5.77	1.16	1.23
10	k5	423	LEU	CA-C	-5.77	1.45	1.52
4	M3	17	VAL	CA-C	-5.77	1.45	1.52
4	M1	17	VAL	CA-C	-5.77	1.45	1.52
4	M4	174	LEU	C-O	-5.76	1.16	1.24
10	j5	865	ALA	CA-C	-5.76	1.45	1.52
4	MA	163	ASN	CA-C	-5.76	1.45	1.52
10	k5	1105	ILE	CA-CB	-5.76	1.47	1.54
9	w7	14	LEU	C-O	-5.76	1.16	1.24
4	M9	163	ASN	CA-C	-5.76	1.45	1.52
4	MA	62	LYS	N-CA	-5.76	1.38	1.46
8	C5	16	ARG	C-O	-5.76	1.16	1.24
4	M9	62	LYS	N-CA	-5.76	1.38	1.46
10	k5	678	VAL	CA-C	-5.76	1.46	1.52
9	z7	14	LEU	C-O	-5.76	1.16	1.24
4	M4	37	GLU	CA-CB	-5.76	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M4	130	SER	CA-C	-5.76	1.45	1.52
9	i5	68	GLY	CA-C	-5.76	1.43	1.51
1	b7	42	ALA	C-O	-5.76	1.17	1.24
4	M8	181	GLN	C-O	-5.76	1.16	1.24
8	u7	58	LEU	CA-C	-5.75	1.45	1.52
9	w7	50	LYS	C-O	-5.75	1.16	1.23
9	w7	51	VAL	C-O	-5.75	1.18	1.24
1	b7	44	ILE	N-CA	-5.75	1.39	1.46
4	M3	62	LYS	N-CA	-5.75	1.38	1.46
10	j5	344	ARG	CA-C	-5.75	1.45	1.52
8	o7	7	ALA	C-N	-5.75	1.26	1.33
11	a9	496	ARG	CA-C	-5.75	1.45	1.52
11	aA	496	ARG	CA-C	-5.75	1.45	1.52
4	M1	62	LYS	N-CA	-5.75	1.38	1.46
4	MA	181	GLN	C-O	-5.74	1.16	1.24
4	M3	36	TYR	CA-C	-5.74	1.45	1.53
10	j5	512	ASN	CG-ND2	-5.74	1.21	1.33
10	k5	479	LEU	CA-C	-5.74	1.45	1.52
10	k5	497	ARG	CA-C	-5.74	1.45	1.52
10	k5	722	ILE	CA-C	-5.74	1.45	1.52
4	M9	181	GLN	C-O	-5.74	1.16	1.24
4	M1	196	TYR	C-O	-5.74	1.17	1.24
10	k5	512	ASN	CG-ND2	-5.74	1.21	1.33
8	I7	123	ILE	CA-CB	5.74	1.57	1.54
3	LA	116	THR	N-CA	-5.74	1.39	1.46
4	M4	181	GLN	C-O	-5.74	1.16	1.24
10	j5	178	ILE	C-O	-5.74	1.15	1.24
10	k5	630	ILE	CA-C	-5.74	1.44	1.52
9	y7	25	ASN	N-CA	-5.74	1.39	1.46
3	L9	116	THR	N-CA	-5.74	1.39	1.46
11	aA	394	ALA	CA-C	-5.74	1.45	1.52
10	j5	570	ALA	CA-CB	-5.74	1.44	1.53
10	j5	571	ALA	CA-CB	-5.74	1.44	1.53
10	j5	706	PRO	N-CA	-5.74	1.40	1.47
10	k5	934	ALA	C-O	-5.74	1.16	1.24
1	h7	42	ALA	C-O	-5.74	1.17	1.24
4	M3	264	LYS	C-O	-5.74	1.17	1.24
10	j5	766	ALA	CA-CB	-5.74	1.44	1.53
10	k5	766	ALA	CA-CB	-5.74	1.44	1.53
4	M1	264	LYS	C-O	-5.74	1.17	1.24
10	j5	348	TYR	CA-CB	-5.74	1.44	1.54
10	j5	527	SER	C-O	-5.74	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	730	ASN	CA-C	-5.74	1.45	1.52
10	k5	348	TYR	CA-CB	-5.74	1.44	1.54
10	k5	527	SER	C-O	-5.74	1.16	1.24
8	o7	58	LEU	CA-C	-5.74	1.45	1.52
4	MA	37	GLU	CA-CB	-5.73	1.45	1.53
8	M5	123	ILE	CA-CB	5.73	1.57	1.54
4	M9	37	GLU	CA-CB	-5.73	1.45	1.53
4	MA	130	SER	CA-C	-5.73	1.45	1.52
10	j5	479	LEU	CA-C	-5.73	1.45	1.52
10	j5	885	GLN	CA-CB	-5.73	1.45	1.53
4	M9	130	SER	CA-C	-5.73	1.45	1.52
8	A5	62	ARG	C-O	-5.73	1.17	1.24
8	I5	123	ILE	CA-CB	5.73	1.57	1.54
10	j5	39	GLU	CA-C	-5.73	1.45	1.52
9	z7	45	GLN	C-O	-5.73	1.16	1.24
9	w7	25	ASN	N-CA	-5.73	1.38	1.46
4	M8	37	GLU	CA-CB	-5.73	1.45	1.53
9	z5	21	ARG	N-CA	-5.73	1.38	1.46
10	k5	939	GLN	CA-CB	-5.73	1.44	1.53
8	C7	123	ILE	CA-CB	5.73	1.57	1.54
10	j5	447	ALA	N-CA	-5.73	1.38	1.46
10	k5	447	ALA	N-CA	-5.73	1.38	1.46
8	U7	123	ILE	CA-CB	5.73	1.57	1.54
10	j5	645	ASN	CG-OD1	-5.73	1.12	1.23
10	k5	571	ALA	CA-CB	-5.73	1.44	1.53
10	k5	645	ASN	CG-OD1	-5.73	1.12	1.23
8	G7	123	ILE	CA-CB	5.73	1.57	1.54
4	MA	12	GLY	C-N	-5.72	1.25	1.33
9	z7	43	ARG	CZ-NH1	5.72	1.40	1.32
4	M9	12	GLY	C-N	-5.72	1.25	1.33
3	LA	115	GLU	CA-C	-5.72	1.45	1.52
8	K5	117	ASN	C-N	-5.72	1.26	1.33
1	D5	8	VAL	C-O	-5.72	1.16	1.23
10	k5	178	ILE	C-O	-5.72	1.15	1.24
3	L9	115	GLU	CA-C	-5.72	1.45	1.52
9	w7	45	GLN	C-O	-5.72	1.16	1.24
8	K5	93	THR	C-O	-5.72	1.16	1.23
1	h7	44	ILE	N-CA	-5.72	1.39	1.46
4	M3	37	GLU	CA-CB	-5.72	1.45	1.53
8	I5	13	ALA	C-O	-5.72	1.16	1.24
10	j5	396	GLY	C-O	-5.72	1.16	1.23
9	z7	25	ASN	N-CA	-5.72	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M8	46	VAL	CA-CB	-5.72	1.47	1.54
4	M1	37	GLU	CA-CB	-5.72	1.45	1.53
4	M3	130	SER	CA-C	-5.71	1.45	1.52
4	M1	130	SER	CA-C	-5.71	1.45	1.52
8	Y5	123	ILE	CA-CB	5.71	1.57	1.54
8	A7	123	ILE	CA-CB	5.71	1.57	1.54
11	a9	629	LYS	C-O	-5.71	1.17	1.24
11	aA	629	LYS	C-O	-5.71	1.17	1.24
10	k5	315	SER	C-O	-5.71	1.17	1.23
10	k5	371	SER	CA-CB	-5.71	1.44	1.53
10	k5	905	THR	CA-C	-5.71	1.45	1.52
9	x7	45	GLN	C-O	-5.71	1.16	1.24
10	j5	157	ILE	C-O	-5.71	1.17	1.24
10	k5	157	ILE	C-O	-5.71	1.17	1.24
10	k5	183	CYS	CA-C	-5.71	1.45	1.52
8	u7	7	ALA	C-N	-5.71	1.26	1.33
9	y7	45	GLN	C-O	-5.71	1.16	1.24
4	M3	196	TYR	C-O	-5.71	1.17	1.24
10	j5	967	VAL	C-O	-5.71	1.17	1.24
10	k5	967	VAL	C-O	-5.71	1.17	1.24
10	j5	466	LEU	CA-C	-5.71	1.47	1.53
10	k5	466	LEU	CA-C	-5.71	1.47	1.53
9	z7	44	ILE	CA-C	-5.71	1.45	1.52
11	a9	818	ARG	C-O	-5.71	1.17	1.24
11	aA	818	ARG	C-O	-5.71	1.17	1.24
4	MA	118	TYR	CA-C	-5.70	1.45	1.52
8	C5	13	ALA	C-O	-5.70	1.16	1.24
9	i5	21	ARG	N-CA	-5.70	1.38	1.46
10	j5	619	GLU	CG-CD	-5.70	1.37	1.52
10	k5	619	GLU	CG-CD	-5.70	1.37	1.52
10	k5	730	ASN	CA-C	-5.70	1.45	1.52
4	M9	118	TYR	CA-C	-5.70	1.45	1.52
4	M3	56	MET	CA-CB	-5.70	1.44	1.53
4	M4	46	VAL	CA-CB	-5.70	1.47	1.54
10	j5	315	SER	C-O	-5.70	1.17	1.23
10	k5	483	PHE	N-CA	-5.70	1.37	1.45
10	k5	982	TYR	CA-C	-5.70	1.46	1.52
9	z7	29	THR	C-O	-5.70	1.16	1.23
10	k5	570	ALA	CA-CB	-5.70	1.44	1.53
8	c7	113	LYS	CA-CB	-5.70	1.44	1.53
4	M4	196	TYR	C-O	-5.70	1.17	1.24
10	k5	151	GLU	C-O	-5.70	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M4	12	GLY	C-N	-5.69	1.26	1.33
10	k5	557	VAL	C-O	-5.69	1.16	1.24
9	w7	43	ARG	CZ-NH1	5.69	1.40	1.32
4	M3	46	VAL	CA-CB	-5.69	1.47	1.54
4	M4	56	MET	CA-CB	-5.69	1.44	1.53
8	E5	93	THR	C-O	-5.69	1.16	1.23
10	k5	39	GLU	CA-C	-5.69	1.45	1.52
4	M8	196	TYR	C-O	-5.69	1.17	1.24
4	M1	46	VAL	CA-CB	-5.69	1.47	1.54
4	MA	196	TYR	C-O	-5.69	1.17	1.24
8	c7	136	VAL	C-O	-5.69	1.17	1.24
4	M9	196	TYR	C-O	-5.69	1.17	1.24
8	G5	62	ARG	C-O	-5.69	1.17	1.24
10	k5	807	ARG	CA-CB	-5.69	1.44	1.53
4	M8	12	GLY	C-N	-5.69	1.26	1.33
11	a9	496	ARG	C-O	-5.69	1.17	1.24
11	aA	496	ARG	C-O	-5.69	1.17	1.24
9	w7	44	ILE	CA-C	-5.69	1.45	1.52
11	a9	521	PHE	CA-C	-5.69	1.45	1.52
11	aA	521	PHE	CA-C	-5.69	1.45	1.52
4	M1	56	MET	CA-CB	-5.69	1.44	1.53
8	i7	136	VAL	C-O	-5.68	1.17	1.24
4	MA	56	MET	CA-CB	-5.68	1.44	1.53
4	M4	163	ASN	CA-C	-5.68	1.45	1.52
10	j5	468	ASN	CB-CG	-5.68	1.37	1.52
10	j5	520	ARG	CZ-NH2	-5.68	1.26	1.33
10	j5	723	GLN	C-N	-5.68	1.26	1.33
10	j5	1000	ILE	C-O	-5.68	1.17	1.24
10	k5	468	ASN	CB-CG	-5.68	1.37	1.52
10	k5	520	ARG	CZ-NH2	-5.68	1.26	1.33
10	k5	723	GLN	C-N	-5.68	1.26	1.33
4	M8	168	LEU	C-O	-5.68	1.17	1.24
4	M9	56	MET	CA-CB	-5.68	1.44	1.53
8	I5	17	TYR	C-O	-5.68	1.17	1.23
9	i5	3	ARG	CA-C	-5.68	1.45	1.52
4	M8	144	ARG	C-O	-5.68	1.17	1.24
9	z7	6	LYS	CA-C	-5.68	1.45	1.52
9	w7	29	THR	C-O	-5.68	1.16	1.23
4	M4	139	VAL	C-O	-5.68	1.16	1.24
10	k5	885	GLN	CA-CB	-5.68	1.45	1.53
4	MA	144	ARG	C-O	-5.67	1.17	1.24
4	M3	118	TYR	CA-C	-5.67	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	30	ALA	N-CA	-5.67	1.38	1.46
10	k5	30	ALA	N-CA	-5.67	1.38	1.46
4	M9	144	ARG	C-O	-5.67	1.17	1.24
11	a9	522	ASP	C-O	-5.67	1.17	1.24
11	aA	522	ASP	C-O	-5.67	1.17	1.24
4	M1	118	TYR	CA-C	-5.67	1.45	1.52
10	j5	15	ARG	C-O	-5.67	1.17	1.24
10	k5	15	ARG	C-O	-5.67	1.17	1.24
10	k5	408	SER	C-O	-5.67	1.16	1.23
10	k5	462	TYR	N-CA	-5.67	1.39	1.46
10	j5	807	ARG	CA-CB	-5.67	1.44	1.53
8	a7	19	SER	CA-C	-5.67	1.45	1.52
10	j5	605	ARG	N-CA	-5.67	1.39	1.46
10	j5	905	THR	CA-C	-5.67	1.45	1.52
10	k5	721	LYS	CA-CB	-5.67	1.44	1.53
3	B2	77	ARG	C-O	-5.67	1.17	1.24
10	j5	939	GLN	CA-CB	-5.67	1.44	1.53
10	j5	981	ILE	CA-C	-5.67	1.45	1.52
10	j5	1038	ARG	C-O	-5.67	1.17	1.24
11	a9	394	ALA	CA-C	-5.67	1.45	1.52
4	M4	188	LEU	C-O	-5.66	1.17	1.24
10	j5	982	TYR	CA-C	-5.66	1.46	1.52
4	M8	264	LYS	C-O	-5.66	1.17	1.24
10	j5	462	TYR	N-CA	-5.66	1.39	1.46
4	M4	105	ALA	C-O	-5.66	1.17	1.24
11	a9	522	ASP	CB-CG	-5.66	1.37	1.52
11	aA	522	ASP	CB-CG	-5.66	1.37	1.52
4	M4	165	PHE	C-O	-5.66	1.17	1.24
10	k5	750	ARG	CA-C	-5.66	1.45	1.52
8	i7	113	LYS	CA-CB	-5.66	1.44	1.53
8	u7	55	GLY	CA-C	-5.66	1.45	1.52
11	a9	473	HIS	C-O	-5.66	1.17	1.24
11	aA	473	HIS	C-O	-5.66	1.17	1.24
4	M3	105	ALA	C-O	-5.66	1.17	1.24
10	k5	703	LEU	N-CA	-5.66	1.39	1.46
4	M1	105	ALA	C-O	-5.66	1.17	1.24
1	J5	8	VAL	C-O	-5.65	1.16	1.23
10	j5	780	ILE	N-CA	-5.65	1.38	1.46
10	j5	888	THR	CB-CG2	-5.65	1.33	1.52
10	k5	888	THR	CB-CG2	-5.65	1.33	1.52
4	M3	165	PHE	C-O	-5.65	1.17	1.24
10	j5	483	PHE	N-CA	-5.65	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	815	TYR	CZ-OH	-5.65	1.26	1.38
10	k5	815	TYR	CZ-OH	-5.65	1.26	1.38
4	M1	165	PHE	C-O	-5.65	1.17	1.24
10	j5	155	LYS	C-O	-5.65	1.17	1.24
10	j5	730	ASN	N-CA	5.65	1.53	1.46
10	j5	1078	SER	CB-OG	5.65	1.53	1.42
10	k5	155	LYS	C-O	-5.65	1.17	1.24
10	k5	780	ILE	N-CA	-5.65	1.38	1.46
11	aA	448	ASN	C-O	-5.65	1.17	1.24
4	M4	19	MET	CA-CB	-5.65	1.46	1.54
4	M8	56	MET	CA-CB	-5.65	1.44	1.53
1	J5	10	ASN	C-O	-5.65	1.16	1.24
8	g7	19	SER	CA-C	-5.65	1.45	1.52
3	LA	93	VAL	C-O	-5.64	1.17	1.24
1	D5	10	ASN	C-O	-5.64	1.16	1.24
8	G5	57	GLN	C-O	-5.64	1.17	1.24
8	a5	7	ALA	C-O	-5.64	1.15	1.23
3	L9	93	VAL	C-O	-5.64	1.17	1.24
4	MA	105	ALA	C-O	-5.64	1.17	1.24
8	E5	117	ASN	C-N	-5.64	1.26	1.33
10	j5	165	ARG	C-O	-5.64	1.17	1.24
10	j5	497	ARG	CA-C	-5.64	1.45	1.52
10	j5	621	PHE	CA-C	-5.64	1.45	1.52
10	k5	165	ARG	C-O	-5.64	1.17	1.24
10	k5	621	PHE	CA-C	-5.64	1.45	1.52
8	E7	123	ILE	CA-CB	5.64	1.57	1.54
9	w7	6	LYS	CA-C	-5.64	1.46	1.52
4	M9	105	ALA	C-O	-5.64	1.17	1.24
4	M8	66	VAL	CA-CB	-5.64	1.47	1.54
11	a9	615	ARG	CA-C	-5.64	1.46	1.53
11	aA	615	ARG	CA-C	-5.64	1.46	1.53
10	j5	408	SER	C-O	-5.64	1.16	1.23
10	j5	686	THR	CB-CG2	-5.64	1.33	1.52
10	j5	913	VAL	C-O	-5.64	1.17	1.24
10	j5	993	LYS	C-O	-5.64	1.17	1.24
10	k5	981	ILE	CA-C	-5.64	1.45	1.52
10	k5	1038	ARG	C-O	-5.64	1.17	1.24
4	MA	264	LYS	C-O	-5.64	1.17	1.24
10	j5	1133	GLU	C-O	-5.64	1.16	1.24
10	k5	605	ARG	N-CA	-5.64	1.39	1.46
10	k5	1078	SER	CB-OG	5.64	1.53	1.42
4	M9	264	LYS	C-O	-5.64	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	K7	123	ILE	CA-CB	5.64	1.57	1.54
4	MA	46	VAL	CA-CB	-5.63	1.47	1.54
4	M9	46	VAL	CA-CB	-5.63	1.47	1.54
8	o7	56	ASP	C-O	-5.63	1.17	1.24
10	j5	544	VAL	CA-CB	-5.63	1.46	1.54
4	M4	264	LYS	C-O	-5.63	1.17	1.24
10	j5	1102	TYR	CA-C	-5.63	1.45	1.52
4	M8	165	PHE	C-O	-5.63	1.17	1.24
11	a9	490	ILE	C-O	-5.63	1.17	1.24
11	aA	490	ILE	C-O	-5.63	1.17	1.24
4	M3	144	ARG	C-O	-5.63	1.17	1.24
4	M1	144	ARG	C-O	-5.63	1.17	1.24
1	D5	15	GLN	C-O	-5.62	1.16	1.24
1	J5	3	ASP	C-O	-5.62	1.16	1.24
10	k5	706	PRO	N-CA	-5.62	1.40	1.47
9	x7	56	LEU	CA-C	-5.62	1.45	1.52
4	M9	168	LEU	C-O	-5.62	1.17	1.24
10	j5	503	LYS	CA-CB	-5.62	1.44	1.54
10	j5	703	LEU	N-CA	-5.62	1.39	1.46
10	k5	686	THR	CB-CG2	-5.62	1.33	1.52
11	a9	448	ASN	C-O	-5.62	1.17	1.24
4	M3	19	MET	CA-CB	-5.62	1.46	1.54
10	k5	903	ARG	CA-C	-5.62	1.45	1.52
4	M8	241	LEU	C-O	-5.62	1.17	1.24
11	a9	632	ILE	C-O	-5.62	1.18	1.24
8	K5	109	ILE	N-CA	-5.62	1.38	1.46
8	u7	56	ASP	C-O	-5.62	1.17	1.24
1	D5	3	ASP	C-O	-5.62	1.17	1.24
10	j5	683	ARG	CA-C	-5.62	1.44	1.52
4	MA	19	MET	CA-CB	-5.61	1.46	1.54
8	C5	123	ILE	CA-CB	5.61	1.57	1.54
1	J5	15	GLN	C-O	-5.61	1.17	1.24
10	j5	293	LYS	C-O	-5.61	1.17	1.24
8	o7	55	GLY	CA-C	-5.61	1.45	1.52
4	M9	19	MET	CA-CB	-5.61	1.46	1.54
10	k5	503	LYS	CA-CB	-5.61	1.44	1.54
10	j5	518	ASN	N-CA	-5.61	1.39	1.46
11	a9	439	ARG	C-O	-5.61	1.17	1.24
11	aA	439	ARG	C-O	-5.61	1.17	1.24
4	M1	19	MET	CA-CB	-5.61	1.46	1.54
4	M8	249	ASP	C-O	-5.61	1.17	1.24
4	MA	188	LEU	C-O	-5.61	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	774	GLN	N-CA	-5.61	1.40	1.47
10	j5	783	TYR	N-CA	-5.61	1.38	1.46
10	k5	783	TYR	N-CA	-5.61	1.38	1.46
4	M9	188	LEU	C-O	-5.61	1.17	1.24
4	MA	66	VAL	CA-CB	-5.61	1.47	1.54
10	k5	993	LYS	C-O	-5.61	1.17	1.24
4	M9	66	VAL	CA-CB	-5.61	1.47	1.54
4	M4	23	PRO	C-O	-5.60	1.16	1.24
4	M4	168	LEU	C-O	-5.60	1.17	1.24
1	D5	12	TYR	CA-C	-5.60	1.44	1.52
10	k5	544	VAL	CA-CB	-5.60	1.46	1.54
10	k5	702	VAL	CA-CB	-5.60	1.46	1.54
4	MA	168	LEU	C-O	-5.60	1.17	1.24
4	M3	66	VAL	CA-CB	-5.60	1.47	1.54
4	M9	12	GLY	CA-C	-5.60	1.45	1.51
4	M1	66	VAL	CA-CB	-5.60	1.47	1.54
4	M4	249	ASP	C-O	-5.60	1.17	1.24
8	e5	7	ALA	C-O	-5.60	1.15	1.23
10	k5	774	GLN	N-CA	-5.60	1.40	1.47
11	a9	614	SER	C-O	-5.60	1.17	1.24
11	aA	614	SER	C-O	-5.60	1.17	1.24
1	h7	46	SER	C-O	-5.59	1.16	1.24
1	b7	46	SER	C-O	-5.59	1.16	1.24
4	MA	23	PRO	C-O	-5.59	1.16	1.24
10	k5	730	ASN	N-CA	5.59	1.53	1.46
10	k5	1133	GLU	C-O	-5.59	1.17	1.24
4	M9	23	PRO	C-O	-5.59	1.16	1.24
4	M3	249	ASP	C-O	-5.59	1.17	1.24
9	z7	55	LYS	CA-C	-5.59	1.45	1.52
4	M1	249	ASP	C-O	-5.59	1.17	1.24
10	k5	463	THR	N-CA	-5.59	1.39	1.46
9	y7	56	LEU	CA-C	-5.59	1.45	1.52
8	C5	17	TYR	C-O	-5.59	1.17	1.23
10	j5	980	HIS	C-O	-5.59	1.16	1.23
11	a9	626	ALA	C-O	-5.58	1.17	1.24
11	aA	626	ALA	C-O	-5.58	1.17	1.24
10	j5	253	ARG	CA-C	-5.58	1.47	1.52
10	j5	721	LYS	CA-CB	-5.58	1.44	1.53
4	M3	133	ARG	C-O	-5.58	1.17	1.24
10	j5	699	SER	N-CA	-5.58	1.39	1.46
10	k5	274	MET	N-CA	-5.58	1.39	1.46
10	j5	1032	VAL	C-O	-5.58	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M8	19	MET	CA-CB	-5.58	1.46	1.54
10	j5	776	PHE	C-N	-5.58	1.27	1.33
10	k5	683	ARG	CA-C	-5.58	1.45	1.52
10	k5	744	PRO	CA-CB	-5.58	1.45	1.53
4	MA	12	GLY	CA-C	-5.58	1.45	1.51
8	c7	134	LYS	CA-C	-5.58	1.45	1.52
11	a9	466	SER	CA-C	-5.58	1.45	1.52
11	aA	466	SER	CA-C	-5.58	1.45	1.52
8	A5	57	GLN	C-O	-5.58	1.17	1.24
4	M3	168	LEU	C-O	-5.57	1.17	1.24
8	E5	109	ILE	N-CA	-5.57	1.39	1.46
10	j5	424	ARG	C-O	-5.57	1.16	1.23
10	k5	424	ARG	C-O	-5.57	1.16	1.23
10	k5	776	PHE	C-N	-5.57	1.27	1.33
4	M1	168	LEU	C-O	-5.57	1.17	1.24
4	MA	192	GLN	C-O	-5.57	1.17	1.24
10	j5	702	VAL	CA-CB	-5.57	1.46	1.54
4	M9	192	GLN	C-O	-5.57	1.17	1.24
4	M3	188	LEU	C-O	-5.57	1.17	1.24
4	M4	133	ARG	C-O	-5.57	1.17	1.24
10	j5	440	TYR	CA-C	-5.57	1.45	1.52
10	j5	903	ARG	CA-C	-5.57	1.46	1.52
10	k5	440	TYR	CA-C	-5.57	1.45	1.52
8	u7	48	GLU	C-O	-5.57	1.16	1.24
11	aA	632	ILE	C-O	-5.57	1.18	1.24
4	M1	188	LEU	C-O	-5.57	1.17	1.24
10	k5	913	VAL	C-O	-5.57	1.17	1.24
10	k5	1102	TYR	CA-C	-5.57	1.45	1.52
8	o7	45	GLU	C-O	-5.57	1.17	1.24
11	a9	525	GLN	C-O	-5.57	1.17	1.24
4	M3	186	ALA	C-O	-5.57	1.17	1.24
9	z5	67	VAL	N-CA	-5.57	1.39	1.46
10	j5	166	TYR	C-O	-5.57	1.17	1.24
10	k5	478	PRO	CA-CB	-5.57	1.44	1.53
10	k5	725	LEU	CB-CG	-5.57	1.42	1.53
3	B6	77	ARG	C-O	-5.57	1.17	1.24
4	M8	12	GLY	CA-C	-5.57	1.45	1.51
4	M1	186	ALA	C-O	-5.57	1.17	1.24
4	MA	165	PHE	C-O	-5.57	1.17	1.24
4	M3	23	PRO	C-O	-5.57	1.16	1.24
10	j5	750	ARG	CA-C	-5.57	1.45	1.52
8	o7	48	GLU	C-O	-5.57	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M9	165	PHE	C-O	-5.57	1.17	1.24
4	M1	23	PRO	C-O	-5.57	1.16	1.24
10	j5	531	THR	CB-CG2	-5.56	1.34	1.52
4	MA	133	ARG	C-O	-5.56	1.17	1.24
10	j5	554	ASN	CA-C	-5.56	1.45	1.52
4	M9	133	ARG	C-O	-5.56	1.17	1.24
11	a9	48	LEU	N-CA	-5.56	1.39	1.46
10	k5	568	ILE	N-CA	-5.56	1.39	1.46
11	a9	616	PRO	CA-C	-5.56	1.45	1.52
11	aA	616	PRO	CA-C	-5.56	1.45	1.52
4	MA	249	ASP	C-O	-5.56	1.17	1.24
10	j5	879	ASP	CA-C	-5.56	1.46	1.52
8	i7	134	LYS	CA-C	-5.56	1.45	1.52
9	w7	55	LYS	CA-C	-5.56	1.45	1.52
4	M9	241	LEU	C-O	-5.56	1.17	1.24
4	M9	249	ASP	C-O	-5.56	1.17	1.24
4	M4	186	ALA	C-O	-5.56	1.17	1.24
10	j5	776	PHE	CA-CB	5.56	1.62	1.53
10	k5	776	PHE	CA-CB	5.56	1.62	1.53
10	k5	879	ASP	CA-C	-5.56	1.46	1.52
4	M1	133	ARG	C-O	-5.56	1.17	1.24
4	M4	118	TYR	CA-C	-5.55	1.45	1.52
10	k5	1032	VAL	C-O	-5.55	1.17	1.24
9	z7	11	ILE	C-O	-5.55	1.18	1.24
5	N3	22	LEU	CA-C	-5.55	1.45	1.52
10	k5	699	SER	N-CA	-5.55	1.39	1.46
4	M8	118	TYR	CA-C	-5.55	1.45	1.52
4	M8	105	ALA	C-O	-5.55	1.17	1.24
4	M4	66	VAL	CA-CB	-5.55	1.47	1.54
10	k5	609	ARG	CA-C	-5.55	1.44	1.52
10	j5	291	ASP	C-O	-5.55	1.17	1.24
10	k5	291	ASP	C-O	-5.55	1.17	1.24
10	k5	531	THR	CB-CG2	-5.55	1.34	1.52
11	a9	483	ASP	C-O	-5.55	1.17	1.24
11	aA	483	ASP	C-O	-5.55	1.17	1.24
4	M3	12	GLY	CA-C	-5.54	1.45	1.51
4	M4	12	GLY	CA-C	-5.54	1.45	1.51
10	j5	738	TYR	N-CA	-5.54	1.38	1.46
4	M1	12	GLY	CA-C	-5.54	1.45	1.51
9	i5	67	VAL	N-CA	-5.54	1.39	1.46
10	k5	1106	PHE	C-O	-5.54	1.16	1.23
11	a9	42	ARG	N-CA	-5.54	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	aA	42	ARG	N-CA	-5.54	1.39	1.46
8	Y7	123	ILE	CA-CB	5.54	1.57	1.54
11	aA	525	GLN	C-O	-5.54	1.17	1.24
4	M1	94	TRP	CA-C	-5.54	1.45	1.53
4	MA	94	TRP	CA-C	-5.54	1.45	1.53
4	M4	248	SER	C-O	-5.54	1.17	1.23
10	j5	591	ILE	CA-CB	-5.54	1.48	1.54
10	j5	870	GLU	CA-CB	-5.54	1.44	1.53
10	k5	498	ALA	N-CA	-5.54	1.39	1.45
10	k5	518	ASN	N-CA	-5.54	1.39	1.46
10	k5	870	GLU	CA-CB	-5.54	1.44	1.53
4	M9	94	TRP	CA-C	-5.54	1.45	1.53
4	M4	94	TRP	CA-C	-5.54	1.45	1.53
8	A5	58	LEU	CA-C	-5.54	1.45	1.52
4	M4	170	PHE	C-O	-5.54	1.17	1.24
10	k5	253	ARG	CA-C	-5.54	1.47	1.52
4	M3	241	LEU	C-O	-5.53	1.17	1.24
1	J5	12	TYR	CA-C	-5.53	1.45	1.52
10	j5	478	PRO	CA-CB	-5.53	1.45	1.53
10	k5	609	ARG	N-CA	-5.53	1.39	1.46
4	M1	241	LEU	C-O	-5.53	1.17	1.24
8	o7	47	ARG	C-O	-5.53	1.17	1.24
4	M8	170	PHE	C-O	-5.53	1.17	1.24
1	D5	17	LYS	CA-C	-5.53	1.45	1.53
10	j5	445	TYR	CZ-OH	-5.53	1.26	1.38
10	k5	445	TYR	CZ-OH	-5.53	1.26	1.38
11	aA	48	LEU	N-CA	-5.53	1.39	1.46
10	j5	809	LEU	CA-C	-5.53	1.45	1.52
10	k5	809	LEU	CA-C	-5.53	1.45	1.52
2	KA	19	LEU	CA-C	-5.53	1.45	1.52
10	j5	646	ASN	CA-CB	-5.53	1.43	1.53
10	k5	646	ASN	CA-CB	-5.53	1.43	1.53
2	K9	19	LEU	CA-C	-5.53	1.45	1.52
8	E5	123	ILE	CA-CB	5.53	1.57	1.54
10	j5	384	SER	C-O	-5.53	1.16	1.24
10	k5	384	SER	C-O	-5.53	1.16	1.24
8	g7	12	ASP	C-O	-5.53	1.17	1.24
10	j5	609	ARG	N-CA	-5.52	1.39	1.46
3	F9	144	SER	CA-C	-5.52	1.48	1.52
4	MA	241	LEU	C-O	-5.52	1.17	1.24
4	M4	163	ASN	C-O	-5.52	1.17	1.24
8	c5	123	ILE	CA-CB	5.52	1.57	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	671	GLN	CA-CB	-5.52	1.44	1.53
10	j5	715	ALA	N-CA	-5.52	1.39	1.46
10	j5	830	GLU	CA-CB	-5.52	1.44	1.53
10	k5	441	ASP	CB-CG	-5.52	1.38	1.52
10	k5	715	ALA	N-CA	-5.52	1.39	1.46
10	k5	776	PHE	N-CA	5.52	1.53	1.46
10	k5	1031	SER	C-O	-5.52	1.16	1.23
1	b7	45	SER	N-CA	-5.52	1.39	1.46
4	M4	192	GLN	C-O	-5.52	1.17	1.24
4	M1	192	GLN	C-O	-5.52	1.17	1.24
10	j5	274	MET	N-CA	-5.52	1.39	1.46
10	k5	293	LYS	C-O	-5.52	1.17	1.24
9	w7	11	ILE	C-O	-5.52	1.18	1.24
10	j5	744	PRO	CA-CB	-5.52	1.46	1.53
9	w7	28	PHE	CA-C	-5.51	1.45	1.52
4	M8	186	ALA	C-O	-5.51	1.17	1.24
10	k5	587	LYS	CA-C	-5.51	1.45	1.53
1	h7	44	ILE	CA-C	-5.51	1.45	1.52
10	j5	951	MET	C-O	-5.51	1.17	1.24
10	k5	658	TYR	N-CA	-5.51	1.39	1.46
8	u7	45	GLU	C-O	-5.51	1.17	1.24
4	M8	23	PRO	C-O	-5.51	1.16	1.24
11	a9	439	ARG	CA-C	-5.51	1.45	1.52
11	aA	439	ARG	CA-C	-5.51	1.45	1.52
4	MA	186	ALA	C-O	-5.51	1.17	1.24
4	M4	28	HIS	C-O	-5.51	1.16	1.23
9	i5	41	GLN	CD-NE2	-5.51	1.21	1.33
10	k5	980	HIS	C-O	-5.51	1.16	1.23
4	M9	186	ALA	C-O	-5.51	1.17	1.24
3	FA	144	SER	CA-C	-5.51	1.46	1.52
4	M8	188	LEU	C-O	-5.51	1.17	1.24
10	k5	166	TYR	C-O	-5.50	1.17	1.24
4	MA	165	PHE	CA-C	-5.50	1.45	1.52
10	j5	441	ASP	CB-CG	-5.50	1.38	1.52
10	j5	733	SER	N-CA	-5.50	1.38	1.46
10	j5	790	ALA	CA-C	-5.50	1.45	1.52
10	k5	371	SER	CB-OG	-5.50	1.31	1.42
10	k5	733	SER	N-CA	-5.50	1.38	1.46
4	M9	165	PHE	CA-C	-5.50	1.45	1.52
4	M3	192	GLN	C-O	-5.50	1.17	1.24
10	j5	631	HIS	CA-C	-5.50	1.45	1.52
10	k5	806	VAL	CA-CB	-5.50	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	790	ALA	CA-C	-5.50	1.45	1.52
4	M3	165	PHE	CA-C	-5.50	1.46	1.52
8	K5	123	ILE	CA-CB	5.50	1.57	1.54
10	j5	695	GLY	CA-C	-5.50	1.44	1.51
5	Z8	22	LEU	CA-C	-5.50	1.45	1.52
11	a9	524	MET	C-O	-5.50	1.17	1.24
4	M1	165	PHE	CA-C	-5.50	1.46	1.52
8	G5	58	LEU	CA-C	-5.50	1.45	1.52
10	j5	512	ASN	CG-OD1	-5.50	1.13	1.23
10	j5	725	LEU	CB-CG	-5.50	1.42	1.53
10	k5	566	ALA	N-CA	-5.50	1.38	1.46
4	M8	248	SER	C-O	-5.50	1.17	1.23
10	j5	245	ILE	C-O	-5.49	1.18	1.24
10	k5	587	LYS	C-O	-5.49	1.16	1.23
10	j5	780	ILE	CB-CG1	-5.49	1.42	1.53
9	x7	31	LEU	C-O	-5.49	1.17	1.23
10	k5	631	HIS	CA-C	-5.49	1.45	1.52
11	a9	438	TYR	CA-C	-5.49	1.45	1.52
4	M4	241	LEU	C-O	-5.49	1.17	1.24
10	j5	463	THR	N-CA	-5.49	1.39	1.46
10	j5	498	ALA	N-CA	-5.49	1.39	1.45
9	z7	41	GLN	N-CA	-5.49	1.39	1.46
9	w7	41	GLN	N-CA	-5.49	1.39	1.46
4	M8	133	ARG	C-O	-5.49	1.17	1.24
10	k5	554	ASN	CA-C	-5.49	1.45	1.52
10	k5	1008	PHE	C-O	-5.49	1.17	1.24
10	j5	405	LEU	CA-C	-5.49	1.46	1.52
10	k5	828	VAL	N-CA	-5.49	1.39	1.46
11	aA	438	TYR	CA-C	-5.49	1.45	1.52
1	J5	17	LYS	CA-C	-5.48	1.45	1.53
10	j5	568	ILE	N-CA	-5.48	1.39	1.46
10	j5	609	ARG	CA-C	-5.48	1.44	1.52
10	k5	643	VAL	CA-C	-5.48	1.45	1.52
10	k5	695	GLY	CA-C	-5.48	1.44	1.51
10	k5	723	GLN	CA-CB	-5.48	1.44	1.53
4	M1	248	SER	C-O	-5.48	1.17	1.23
3	LA	115	GLU	C-O	-5.48	1.17	1.24
10	k5	591	ILE	CA-CB	-5.48	1.48	1.54
8	a7	12	ASP	C-O	-5.48	1.17	1.24
3	L9	115	GLU	C-O	-5.48	1.17	1.24
5	N1	22	LEU	CA-C	-5.48	1.45	1.52
10	j5	172	LEU	C-O	-5.48	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	464	GLN	CG-CD	-5.48	1.38	1.52
10	j5	587	LYS	C-O	-5.48	1.16	1.23
10	k5	464	GLN	CG-CD	-5.48	1.38	1.52
4	M3	28	HIS	C-O	-5.48	1.16	1.23
8	I5	8	ILE	N-CA	-5.48	1.39	1.46
10	j5	53	ARG	C-O	-5.48	1.17	1.24
10	k5	53	ARG	C-O	-5.48	1.17	1.24
10	k5	671	GLN	CA-CB	-5.48	1.44	1.53
8	g7	19	SER	C-O	-5.48	1.15	1.23
9	z7	28	PHE	CA-C	-5.48	1.45	1.52
11	a9	547	LYS	C-O	-5.48	1.17	1.24
11	aA	547	LYS	C-O	-5.48	1.17	1.24
4	M1	28	HIS	C-O	-5.48	1.16	1.23
4	M3	94	TRP	CA-C	-5.48	1.45	1.53
10	j5	187	ARG	C-O	-5.47	1.17	1.24
10	j5	806	VAL	CA-CB	-5.47	1.47	1.54
10	k5	23	GLU	CA-C	-5.47	1.45	1.52
10	k5	187	ARG	C-O	-5.47	1.17	1.24
10	j5	23	GLU	CA-C	-5.47	1.45	1.52
10	j5	532	THR	C-O	-5.47	1.16	1.24
10	k5	532	THR	C-O	-5.47	1.16	1.24
10	k5	573	GLN	CD-OE1	-5.47	1.13	1.23
1	b7	44	ILE	CA-C	-5.47	1.45	1.52
9	z5	41	GLN	CD-NE2	-5.47	1.21	1.33
10	j5	776	PHE	N-CA	5.47	1.53	1.46
10	k5	53	ARG	CA-C	-5.47	1.45	1.52
8	a7	19	SER	C-O	-5.47	1.15	1.23
10	j5	510	ILE	CA-C	-5.47	1.46	1.52
10	k5	1034	GLU	C-O	-5.47	1.17	1.24
8	i7	119	LEU	C-O	-5.47	1.16	1.24
4	MA	248	SER	C-O	-5.46	1.17	1.23
4	M8	192	GLN	C-O	-5.46	1.17	1.24
4	M9	248	SER	C-O	-5.46	1.17	1.23
11	aA	524	MET	C-O	-5.46	1.17	1.24
10	j5	296	VAL	CA-CB	-5.46	1.47	1.54
10	j5	566	ALA	N-CA	-5.46	1.38	1.46
10	j5	587	LYS	CA-C	-5.46	1.45	1.53
4	M4	238	MET	C-O	-5.46	1.17	1.24
10	k5	830	GLU	CA-CB	-5.46	1.44	1.53
1	h7	45	SER	N-CA	-5.46	1.39	1.46
4	M3	170	PHE	C-O	-5.46	1.17	1.24
10	j5	53	ARG	CA-C	-5.46	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	780	ILE	CB-CG1	-5.46	1.42	1.53
4	M1	170	PHE	C-O	-5.46	1.17	1.24
10	j5	177	SER	C-O	-5.46	1.17	1.24
11	a9	476	ARG	C-O	-5.46	1.17	1.24
11	a9	483	ASP	CA-C	-5.46	1.45	1.52
11	aA	483	ASP	CA-C	-5.46	1.45	1.52
4	M4	165	PHE	CA-C	-5.45	1.46	1.52
10	j5	535	PRO	CA-CB	-5.45	1.46	1.53
10	j5	739	VAL	CA-CB	-5.45	1.47	1.54
10	k5	512	ASN	CG-OD1	-5.45	1.13	1.23
9	z5	37	TRP	CA-CB	-5.45	1.44	1.53
11	a9	452	ILE	C-O	-5.45	1.17	1.24
11	aA	452	ILE	C-O	-5.45	1.17	1.24
10	j5	322	LYS	C-O	-5.45	1.17	1.24
10	j5	371	SER	CB-OG	-5.45	1.31	1.42
10	j5	469	GLN	CD-OE1	-5.45	1.13	1.23
10	k5	322	LYS	C-O	-5.45	1.17	1.24
10	k5	434	TRP	CB-CG	-5.45	1.33	1.50
10	k5	469	GLN	CD-OE1	-5.45	1.13	1.23
8	c7	119	LEU	C-O	-5.45	1.16	1.24
4	MA	170	PHE	C-O	-5.45	1.17	1.24
4	M9	170	PHE	C-O	-5.45	1.17	1.24
4	MA	238	MET	C-O	-5.45	1.17	1.24
10	j5	506	LYS	CA-C	-5.45	1.46	1.52
10	j5	1031	SER	C-O	-5.45	1.16	1.23
10	k5	506	LYS	CA-C	-5.45	1.46	1.52
4	M9	238	MET	C-O	-5.45	1.17	1.24
4	M4	185	ALA	CA-C	-5.44	1.45	1.52
10	j5	573	GLN	CD-OE1	-5.44	1.13	1.23
4	M3	40	GLN	CA-CB	-5.44	1.45	1.53
8	C5	8	ILE	N-CA	-5.44	1.39	1.46
10	j5	476	ASN	CB-CG	-5.44	1.38	1.52
10	k5	15	ARG	CA-C	-5.44	1.45	1.52
10	k5	454	GLN	CA-CB	-5.44	1.45	1.53
11	aA	476	ARG	C-O	-5.44	1.17	1.24
4	M1	40	GLN	CA-CB	-5.44	1.45	1.53
4	MA	67	LEU	C-O	-5.44	1.16	1.23
10	j5	723	GLN	CA-CB	-5.44	1.44	1.53
10	j5	924	ASP	C-O	-5.44	1.17	1.23
10	k5	172	LEU	C-O	-5.44	1.17	1.24
4	M8	28	HIS	C-O	-5.44	1.16	1.23
4	M8	165	PHE	CA-C	-5.44	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M8	185	ALA	CA-C	-5.44	1.45	1.52
4	M9	67	LEU	C-O	-5.44	1.16	1.23
4	M4	67	LEU	C-O	-5.44	1.16	1.23
8	E5	108	GLY	C-O	-5.44	1.16	1.23
10	j5	15	ARG	CA-C	-5.44	1.45	1.52
10	j5	643	VAL	CA-C	-5.44	1.45	1.52
10	j5	995	VAL	CA-CB	-5.44	1.47	1.54
10	j5	1034	GLU	C-O	-5.44	1.17	1.24
4	MA	40	GLN	CA-CB	-5.43	1.45	1.53
4	M3	140	ARG	C-O	-5.43	1.17	1.24
10	j5	893	ASN	CG-ND2	-5.43	1.21	1.33
4	M9	40	GLN	CA-CB	-5.43	1.45	1.53
4	M1	140	ARG	C-O	-5.43	1.17	1.24
9	y7	31	LEU	CA-C	-5.43	1.45	1.52
10	j5	406	ILE	CA-C	-5.43	1.44	1.52
4	M3	51	ARG	CA-C	-5.43	1.45	1.52
10	k5	476	ASN	CB-CG	-5.43	1.38	1.52
4	M1	51	ARG	CA-C	-5.43	1.45	1.52
4	M1	185	ALA	CA-C	-5.43	1.45	1.52
4	M3	163	ASN	C-O	-5.43	1.17	1.24
4	M1	163	ASN	C-O	-5.43	1.17	1.24
5	NA	22	LEU	CA-C	-5.43	1.45	1.52
10	j5	21	MET	C-O	-5.43	1.17	1.24
10	j5	198	ALA	C-O	-5.43	1.17	1.24
10	j5	592	LYS	CA-CB	-5.43	1.44	1.53
10	j5	670	TYR	CZ-OH	-5.43	1.26	1.38
10	j5	824	PRO	C-N	-5.43	1.26	1.33
10	k5	592	LYS	CA-CB	-5.43	1.44	1.53
4	M3	185	ALA	CA-C	-5.42	1.45	1.52
10	k5	405	LEU	CA-C	-5.42	1.46	1.52
4	M8	246	ALA	C-O	-5.42	1.16	1.24
4	MA	185	ALA	CA-C	-5.42	1.45	1.52
4	M3	238	MET	C-O	-5.42	1.17	1.24
10	k5	995	VAL	CA-CB	-5.42	1.47	1.54
4	M9	185	ALA	CA-C	-5.42	1.45	1.52
4	M1	238	MET	C-O	-5.42	1.17	1.24
4	M4	40	GLN	CA-CB	-5.42	1.45	1.53
10	j5	905	THR	CB-CG2	-5.42	1.34	1.52
10	k5	296	VAL	CA-CB	-5.42	1.47	1.54
10	k5	905	THR	CB-CG2	-5.42	1.34	1.52
10	j5	434	TRP	CB-CG	-5.42	1.33	1.50
10	j5	552	VAL	C-O	-5.42	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	893	ASN	CG-ND2	-5.42	1.21	1.33
4	M9	28	HIS	C-O	-5.42	1.16	1.23
4	M3	248	SER	C-O	-5.42	1.17	1.23
10	j5	226	TYR	C-O	-5.42	1.17	1.24
10	k5	492	ILE	N-CA	-5.42	1.40	1.46
1	h7	51	ILE	CA-C	-5.42	1.45	1.52
4	M8	163	ASN	C-O	-5.41	1.17	1.24
10	k5	1126	ALA	CA-C	-5.41	1.46	1.52
4	M1	67	LEU	C-O	-5.41	1.16	1.23
10	j5	454	GLN	CA-CB	-5.41	1.45	1.53
10	j5	701	ASP	CA-C	-5.41	1.45	1.52
10	k5	535	PRO	CA-CB	-5.41	1.46	1.53
10	k5	701	ASP	CA-C	-5.41	1.45	1.52
10	k5	824	PRO	C-N	-5.41	1.26	1.33
4	M8	40	GLN	CA-CB	-5.41	1.45	1.53
5	Z4	22	LEU	CA-C	-5.41	1.45	1.52
10	j5	576	PHE	CG-CD1	-5.41	1.27	1.38
10	j5	658	TYR	N-CA	-5.41	1.39	1.46
10	k5	439	ALA	CA-CB	-5.41	1.44	1.53
4	M9	113	ILE	C-O	-5.41	1.17	1.24
4	MA	163	ASN	C-O	-5.41	1.17	1.24
4	M3	113	ILE	C-O	-5.41	1.17	1.24
8	K5	108	GLY	C-O	-5.41	1.16	1.23
8	E5	106	GLU	CA-C	-5.41	1.45	1.52
10	j5	29	ASN	CA-C	-5.41	1.45	1.52
10	k5	29	ASN	CA-C	-5.41	1.45	1.52
10	k5	245	ILE	C-O	-5.41	1.18	1.24
4	M8	67	LEU	C-O	-5.41	1.16	1.23
4	M9	163	ASN	C-O	-5.41	1.17	1.24
4	M1	113	ILE	C-O	-5.41	1.17	1.24
10	k5	827	LYS	CA-CB	-5.40	1.44	1.53
10	k5	370	GLU	CA-CB	-5.40	1.44	1.53
10	k5	951	MET	C-O	-5.40	1.17	1.24
8	u7	47	ARG	C-O	-5.40	1.17	1.24
10	k5	21	MET	C-O	-5.40	1.17	1.24
9	i5	37	TRP	CA-CB	-5.40	1.44	1.53
10	k5	576	PHE	CG-CD1	-5.40	1.27	1.38
10	k5	670	TYR	CZ-OH	-5.40	1.26	1.38
11	a9	320	ASP	CA-C	-5.40	1.46	1.52
11	a9	800	THR	CA-C	-5.40	1.45	1.52
11	aA	320	ASP	CA-C	-5.40	1.46	1.52
8	a5	12	ASP	CA-CB	-5.40	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	552	VAL	C-O	-5.40	1.18	1.24
10	k5	924	ASP	C-O	-5.40	1.17	1.23
4	MA	22	SER	N-CA	-5.39	1.38	1.45
10	k5	510	ILE	CA-C	-5.39	1.46	1.52
10	k5	627	ILE	CA-C	-5.39	1.46	1.52
4	M9	22	SER	N-CA	-5.39	1.38	1.45
4	M3	16	LYS	CA-C	-5.39	1.46	1.52
4	M8	238	MET	C-O	-5.39	1.17	1.24
4	M1	16	LYS	CA-C	-5.39	1.46	1.52
10	j5	627	ILE	CA-C	-5.39	1.46	1.52
4	M8	22	SER	N-CA	-5.39	1.38	1.45
3	LA	113	LEU	C-O	-5.39	1.17	1.24
8	e5	12	ASP	CA-CB	-5.39	1.44	1.53
10	j5	370	GLU	C-N	-5.39	1.26	1.33
10	j5	797	ASN	C-O	-5.39	1.16	1.24
10	k5	198	ALA	C-O	-5.39	1.17	1.24
10	k5	797	ASN	C-O	-5.39	1.16	1.24
3	L9	113	LEU	C-O	-5.39	1.17	1.24
10	j5	505	VAL	CA-C	-5.39	1.46	1.52
10	j5	1008	PHE	C-O	-5.39	1.17	1.24
10	j5	893	ASN	CA-CB	-5.39	1.44	1.53
10	k5	406	ILE	CA-C	-5.39	1.44	1.52
1	b7	51	ILE	CA-C	-5.39	1.45	1.52
5	N9	22	LEU	CA-C	-5.39	1.45	1.52
8	K5	106	GLU	CA-C	-5.38	1.45	1.52
10	k5	530	ALA	C-O	-5.38	1.17	1.24
10	j5	1120	PRO	CA-CB	-5.38	1.46	1.53
10	k5	226	TYR	C-O	-5.38	1.17	1.24
10	k5	706	PRO	CA-CB	-5.38	1.46	1.53
4	MA	16	LYS	CA-C	-5.38	1.46	1.52
4	MA	246	ALA	C-O	-5.38	1.16	1.24
4	M3	180	ASN	C-O	-5.38	1.17	1.23
4	M1	180	ASN	C-O	-5.38	1.17	1.23
4	MA	140	ARG	C-O	-5.38	1.17	1.24
10	j5	416	GLY	CA-C	-5.38	1.44	1.51
10	j5	530	ALA	C-O	-5.38	1.17	1.24
4	M9	140	ARG	C-O	-5.38	1.17	1.24
11	a9	523	GLN	CA-CB	-5.38	1.45	1.53
11	aA	523	GLN	CA-CB	-5.38	1.45	1.53
10	j5	738	TYR	CZ-OH	-5.38	1.26	1.38
10	j5	828	VAL	N-CA	-5.38	1.40	1.46
9	y7	31	LEU	C-O	-5.38	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M9	16	LYS	CA-C	-5.38	1.46	1.52
4	MA	28	HIS	C-O	-5.38	1.16	1.23
10	j5	439	ALA	CA-CB	-5.38	1.44	1.53
4	M3	246	ALA	C-O	-5.38	1.16	1.24
10	j5	370	GLU	CA-CB	-5.38	1.44	1.53
10	k5	893	ASN	CA-CB	-5.38	1.44	1.53
10	j5	492	ILE	N-CA	-5.37	1.40	1.46
10	j5	751	LYS	CA-C	-5.37	1.46	1.52
10	k5	1120	PRO	CA-CB	-5.37	1.46	1.53
8	K7	97	VAL	CA-CB	5.37	1.61	1.54
4	M9	246	ALA	C-O	-5.37	1.16	1.24
10	j5	398	LEU	N-CA	-5.37	1.39	1.46
10	j5	720	ASP	CB-CG	-5.37	1.38	1.52
10	k5	373	ALA	CA-CB	-5.37	1.44	1.53
10	k5	398	LEU	N-CA	-5.37	1.39	1.46
10	k5	462	TYR	CA-CB	-5.37	1.44	1.53
11	aA	800	THR	CA-C	-5.37	1.45	1.52
10	j5	373	ALA	CA-CB	-5.37	1.44	1.53
10	j5	768	VAL	CA-CB	-5.37	1.47	1.54
10	j5	1098	GLU	C-O	-5.37	1.16	1.24
10	k5	768	VAL	CA-CB	-5.37	1.47	1.54
10	k5	1098	GLU	C-O	-5.37	1.16	1.24
1	b7	47	ASN	CA-C	-5.37	1.45	1.52
4	M8	92	GLU	C-O	-5.37	1.18	1.24
9	z5	35	GLU	C-O	-5.37	1.16	1.24
10	k5	902	ASN	N-CA	-5.37	1.40	1.46
8	C5	4	LEU	N-CA	-5.37	1.40	1.46
10	k5	11	VAL	CA-CB	-5.37	1.47	1.54
8	I5	14	GLU	CA-C	-5.36	1.45	1.52
10	j5	445	TYR	CE1-CZ	-5.36	1.25	1.38
10	k5	177	SER	C-O	-5.36	1.17	1.24
10	k5	445	TYR	CE1-CZ	-5.36	1.25	1.38
8	c7	97	VAL	CA-CB	5.36	1.61	1.54
11	a9	508	ARG	C-O	-5.36	1.16	1.24
11	aA	508	ARG	C-O	-5.36	1.16	1.24
8	I5	4	LEU	N-CA	-5.36	1.40	1.46
10	j5	802	VAL	CA-CB	-5.36	1.46	1.54
10	j5	827	LYS	N-CA	-5.36	1.39	1.46
10	k5	642	ARG	CA-CB	-5.36	1.44	1.53
10	k5	827	LYS	N-CA	-5.36	1.39	1.46
4	M1	246	ALA	C-O	-5.36	1.16	1.24
4	M4	144	ARG	C-O	-5.36	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	505	VAL	CA-C	-5.36	1.46	1.52
10	k5	1103	LEU	CA-C	-5.36	1.45	1.52
4	MA	113	ILE	C-O	-5.36	1.17	1.24
10	j5	938	GLN	C-O	-5.36	1.17	1.24
10	k5	641	ASP	CA-CB	-5.36	1.44	1.53
10	k5	938	GLN	C-O	-5.36	1.17	1.24
10	k5	719	MET	CA-CB	-5.36	1.44	1.53
10	j5	839	ARG	CA-CB	-5.35	1.46	1.53
10	k5	839	ARG	CA-CB	-5.35	1.46	1.53
4	MA	51	ARG	CA-C	-5.35	1.45	1.52
10	j5	531	THR	CA-C	-5.35	1.45	1.53
4	M8	16	LYS	CA-C	-5.35	1.46	1.52
4	M9	51	ARG	CA-C	-5.35	1.45	1.52
4	M3	67	LEU	C-O	-5.35	1.16	1.23
9	i5	35	GLU	C-O	-5.35	1.16	1.24
10	k5	1094	ASP	C-O	-5.35	1.17	1.24
4	M8	14	LEU	N-CA	-5.35	1.39	1.46
9	x7	31	LEU	CA-C	-5.35	1.45	1.52
4	M4	113	ILE	C-O	-5.34	1.17	1.24
10	j5	856	ARG	CA-CB	-5.34	1.44	1.53
10	j5	462	TYR	CA-CB	-5.34	1.44	1.53
10	k5	372	ARG	CZ-NH1	-5.34	1.25	1.32
10	k5	416	GLY	C-O	-5.34	1.16	1.23
8	o7	160	MET	CA-C	-5.34	1.45	1.52
4	M8	51	ARG	CA-C	-5.34	1.45	1.52
11	a9	492	SER	CA-C	-5.34	1.46	1.52
11	aA	492	SER	CA-C	-5.34	1.46	1.52
10	j5	56	ILE	C-O	-5.34	1.18	1.24
10	j5	297	VAL	C-O	-5.34	1.16	1.24
10	j5	719	MET	CA-CB	-5.34	1.44	1.53
10	j5	827	LYS	CA-CB	-5.34	1.44	1.53
10	k5	297	VAL	C-O	-5.34	1.16	1.24
8	E7	97	VAL	CA-CB	5.34	1.61	1.54
4	M4	246	ALA	C-O	-5.34	1.16	1.24
10	j5	476	ASN	CA-CB	-5.34	1.44	1.53
8	u7	160	MET	CA-C	-5.34	1.45	1.52
8	e7	123	ILE	CA-CB	5.33	1.57	1.54
4	MA	185	ALA	C-O	-5.33	1.17	1.24
10	j5	578	ARG	CZ-NH2	-5.33	1.26	1.33
10	j5	783	TYR	CB-CG	-5.33	1.40	1.51
10	k5	472	TYR	CA-CB	-5.33	1.44	1.53
10	k5	783	TYR	CB-CG	-5.33	1.40	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M9	185	ALA	C-O	-5.33	1.17	1.24
10	j5	616	LEU	N-CA	-5.33	1.39	1.46
10	k5	616	LEU	N-CA	-5.33	1.39	1.46
9	x7	19	THR	CA-C	-5.33	1.45	1.52
4	M3	7	SER	C-O	5.33	1.30	1.24
8	G5	48	GLU	CA-C	-5.33	1.46	1.52
10	j5	706	PRO	CA-CB	-5.33	1.46	1.53
10	k5	691	SER	CA-CB	-5.33	1.44	1.53
11	a9	495	TYR	CA-C	-5.33	1.46	1.52
4	M1	7	SER	C-O	5.33	1.30	1.24
9	z5	22	GLU	N-CA	-5.33	1.40	1.46
10	j5	511	ARG	NE-CZ	-5.33	1.27	1.33
10	j5	1126	ALA	CA-C	-5.33	1.46	1.52
10	k5	511	ARG	NE-CZ	-5.33	1.27	1.33
10	k5	802	VAL	CA-CB	-5.33	1.46	1.54
9	y7	24	GLN	C-O	-5.33	1.17	1.24
11	a9	805	GLN	C-O	-5.33	1.17	1.24
11	aA	805	GLN	C-O	-5.33	1.17	1.24
4	M4	51	ARG	N-CA	-5.32	1.39	1.46
8	C5	14	GLU	CA-C	-5.32	1.45	1.52
10	j5	677	ASP	N-CA	-5.32	1.39	1.46
10	j5	885	GLN	CD-OE1	-5.32	1.13	1.23
10	k5	531	THR	CA-C	-5.32	1.45	1.53
10	k5	962	ALA	CA-C	-5.32	1.45	1.52
8	Q5	97	VAL	CA-CB	5.32	1.61	1.54
4	M4	22	SER	N-CA	-5.32	1.38	1.45
10	j5	641	ASP	CA-CB	-5.32	1.44	1.53
10	k5	751	LYS	CA-C	-5.32	1.46	1.52
9	x7	24	GLN	C-O	-5.32	1.17	1.24
4	M8	113	ILE	C-O	-5.32	1.17	1.24
4	M4	51	ARG	CA-C	-5.32	1.45	1.52
8	G5	63	PRO	C-O	-5.32	1.17	1.24
10	k5	476	ASN	CA-CB	-5.32	1.44	1.53
8	i7	97	VAL	CA-CB	5.32	1.61	1.54
10	j5	579	GLN	CA-C	-5.31	1.45	1.53
10	j5	902	ASN	N-CA	-5.31	1.40	1.46
10	k5	981	ILE	CA-CB	-5.31	1.47	1.54
11	a9	37	GLY	C-O	-5.31	1.16	1.23
11	aA	37	GLY	C-O	-5.31	1.16	1.23
9	i5	22	GLU	N-CA	-5.31	1.40	1.46
11	a9	511	LYS	CA-C	-5.31	1.46	1.52
11	aA	511	LYS	CA-C	-5.31	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M4	16	LYS	CA-C	-5.31	1.46	1.52
4	M3	51	ARG	N-CA	-5.31	1.39	1.46
8	E5	78	THR	C-O	-5.31	1.17	1.24
8	W5	97	VAL	CA-CB	5.31	1.61	1.54
10	j5	970	GLY	CA-C	-5.31	1.44	1.51
10	k5	856	ARG	CA-CB	-5.31	1.44	1.53
10	k5	970	GLY	CA-C	-5.31	1.44	1.51
1	h7	47	ASN	CA-C	-5.31	1.45	1.52
4	M1	51	ARG	N-CA	-5.31	1.39	1.46
4	M3	22	SER	N-CA	-5.31	1.38	1.45
10	j5	372	ARG	CZ-NH1	-5.31	1.25	1.32
10	k5	885	GLN	CD-OE1	-5.31	1.13	1.23
1	h7	43	VAL	CA-C	-5.31	1.46	1.52
4	M1	22	SER	N-CA	-5.31	1.38	1.45
4	M4	180	ASN	C-O	-5.30	1.17	1.23
8	M5	97	VAL	CA-CB	5.30	1.61	1.54
10	j5	265	SER	CA-C	-5.30	1.45	1.52
10	j5	772	TYR	CA-C	-5.30	1.45	1.52
1	b7	43	VAL	CA-C	-5.30	1.46	1.52
4	M9	7	SER	C-O	5.30	1.30	1.24
4	MA	51	ARG	N-CA	-5.30	1.39	1.46
10	j5	585	ARG	CA-C	-5.30	1.46	1.52
4	M9	51	ARG	N-CA	-5.30	1.39	1.46
10	j5	11	VAL	CA-CB	-5.30	1.47	1.54
10	k5	370	GLU	C-N	-5.30	1.26	1.33
10	k5	720	ASP	CB-CG	-5.30	1.38	1.52
11	a9	527	LEU	C-O	-5.30	1.18	1.24
11	aA	527	LEU	C-O	-5.30	1.18	1.24
10	j5	1094	ASP	C-O	-5.30	1.17	1.24
3	LA	84	ARG	C-O	-5.30	1.17	1.24
10	j5	642	ARG	CA-CB	-5.30	1.44	1.53
3	L9	84	ARG	C-O	-5.30	1.17	1.24
10	j5	416	GLY	C-O	-5.29	1.16	1.23
8	K5	131	ARG	C-O	-5.29	1.17	1.24
4	M8	185	ALA	C-O	-5.29	1.17	1.24
10	j5	997	ILE	CA-C	-5.29	1.46	1.52
10	k5	973	THR	C-O	-5.29	1.17	1.24
10	k5	997	ILE	CA-C	-5.29	1.46	1.52
4	M9	215	GLU	C-O	-5.29	1.17	1.24
4	MA	180	ASN	C-O	-5.29	1.17	1.23
10	k5	1045	TYR	CA-C	-5.29	1.45	1.52
8	o7	53	GLN	C-O	-5.29	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M9	180	ASN	C-O	-5.29	1.17	1.23
8	A5	63	PRO	C-O	-5.29	1.17	1.24
10	j5	160	LEU	C-O	-5.29	1.18	1.24
10	k5	854	LEU	CA-CB	-5.29	1.45	1.53
11	a9	461	GLY	C-O	-5.29	1.18	1.24
11	aA	461	GLY	C-O	-5.29	1.18	1.24
11	aA	495	TYR	CA-C	-5.29	1.46	1.52
10	k5	677	ASP	N-CA	-5.29	1.39	1.46
4	M3	185	ALA	C-O	-5.29	1.17	1.24
4	M4	14	LEU	N-CA	-5.29	1.39	1.46
4	M1	185	ALA	C-O	-5.29	1.17	1.24
10	j5	848	ILE	CA-CB	-5.28	1.47	1.54
10	k5	56	ILE	C-O	-5.28	1.18	1.24
10	k5	792	GLU	N-CA	-5.28	1.40	1.46
9	y7	19	THR	CA-C	-5.28	1.45	1.52
10	j5	180	GLU	C-O	-5.28	1.17	1.24
10	k5	180	GLU	C-O	-5.28	1.17	1.24
10	k5	416	GLY	CA-C	-5.28	1.44	1.51
10	j5	785	ARG	C-O	-5.28	1.17	1.23
10	k5	772	TYR	N-CA	-5.28	1.39	1.46
10	k5	785	ARG	C-O	-5.28	1.17	1.23
4	M1	215	GLU	C-O	-5.28	1.17	1.24
10	j5	328	ILE	C-O	-5.28	1.18	1.24
10	j5	602	GLU	CA-CB	-5.28	1.44	1.53
10	k5	328	ILE	C-O	-5.28	1.18	1.24
10	j5	397	GLY	N-CA	-5.28	1.37	1.45
10	j5	692	LEU	CA-C	-5.28	1.45	1.52
10	j5	770	ALA	CA-C	-5.28	1.45	1.52
10	k5	397	GLY	N-CA	-5.28	1.37	1.45
10	k5	578	ARG	CZ-NH2	-5.28	1.26	1.33
10	k5	803	LYS	CA-CB	-5.28	1.44	1.53
8	u7	53	GLN	C-O	-5.28	1.17	1.24
8	C5	14	GLU	C-O	-5.27	1.17	1.24
10	k5	11	VAL	C-O	-5.27	1.17	1.24
10	j5	401	LEU	CA-C	-5.27	1.46	1.52
10	j5	538	PHE	N-CA	-5.27	1.39	1.46
10	k5	401	LEU	CA-C	-5.27	1.46	1.52
10	k5	538	PHE	N-CA	-5.27	1.39	1.46
10	k5	692	LEU	CA-C	-5.27	1.45	1.52
10	j5	733	SER	CB-OG	-5.27	1.31	1.42
4	M3	14	LEU	N-CA	-5.27	1.39	1.46
10	j5	271	THR	C-O	-5.27	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	298	ARG	CA-C	-5.27	1.45	1.52
10	j5	691	SER	CA-CB	-5.27	1.44	1.53
10	j5	977	GLN	C-O	-5.27	1.17	1.24
10	j5	1100	PRO	C-O	-5.27	1.17	1.24
10	k5	298	ARG	CA-C	-5.27	1.45	1.52
10	k5	977	GLN	C-O	-5.27	1.17	1.24
10	k5	1100	PRO	C-O	-5.27	1.17	1.24
10	k5	317	SER	C-O	-5.27	1.18	1.24
8	i7	114	GLU	C-O	-5.27	1.17	1.24
4	M1	14	LEU	N-CA	-5.27	1.39	1.46
4	M4	185	ALA	C-O	-5.27	1.17	1.24
10	j5	883	SER	CA-CB	-5.27	1.44	1.53
10	j5	854	LEU	CA-CB	-5.26	1.45	1.53
3	LA	86	MET	CA-C	-5.26	1.46	1.52
4	MA	41	ASN	CA-CB	-5.26	1.45	1.53
10	j5	982	TYR	C-O	-5.26	1.17	1.24
3	L9	86	MET	CA-C	-5.26	1.46	1.52
4	M9	41	ASN	CA-CB	-5.26	1.45	1.53
4	MA	215	GLU	C-O	-5.26	1.17	1.24
8	K5	78	THR	C-O	-5.26	1.17	1.24
10	j5	1045	TYR	CA-C	-5.26	1.45	1.52
4	M3	215	GLU	C-O	-5.26	1.17	1.24
8	A5	51	VAL	CA-C	-5.26	1.46	1.52
4	M8	7	SER	C-O	5.26	1.30	1.24
8	A5	48	GLU	CA-C	-5.26	1.46	1.52
4	M8	180	ASN	C-O	-5.26	1.17	1.23
8	I5	14	GLU	C-O	-5.25	1.17	1.24
10	j5	792	GLU	N-CA	-5.25	1.40	1.46
10	k5	7	SER	CA-C	-5.25	1.45	1.52
8	I5	6	LYS	C-O	-5.25	1.15	1.23
10	j5	517	SER	N-CA	-5.25	1.40	1.46
10	j5	572	TYR	C-N	-5.25	1.25	1.33
10	k5	420	VAL	CA-CB	-5.25	1.47	1.54
10	k5	517	SER	N-CA	-5.25	1.40	1.46
10	k5	572	TYR	C-N	-5.25	1.25	1.33
10	k5	883	SER	CA-CB	-5.25	1.44	1.53
8	Q7	97	VAL	CA-CB	5.25	1.61	1.54
10	j5	367	ARG	CZ-NH2	-5.25	1.26	1.33
10	k5	367	ARG	CZ-NH2	-5.25	1.26	1.33
4	M8	51	ARG	N-CA	-5.25	1.39	1.46
11	a9	327	SER	C-O	-5.25	1.18	1.24
11	aA	327	SER	C-O	-5.25	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	Z8	26	LEU	N-CA	-5.25	1.39	1.45
4	MA	234	SER	N-CA	-5.25	1.39	1.46
10	k5	372	ARG	CZ-NH2	-5.25	1.26	1.33
4	M9	234	SER	N-CA	-5.25	1.39	1.46
8	E5	131	ARG	C-O	-5.24	1.17	1.24
10	k5	265	SER	CA-C	-5.24	1.45	1.52
10	k5	537	ILE	N-CA	-5.24	1.39	1.46
10	k5	772	TYR	CA-C	-5.24	1.45	1.52
4	MA	7	SER	C-O	5.24	1.30	1.24
10	j5	372	ARG	CZ-NH2	-5.24	1.26	1.33
10	j5	962	ALA	CA-C	-5.24	1.45	1.52
10	k5	733	SER	CB-OG	-5.24	1.31	1.42
4	M4	234	SER	N-CA	-5.24	1.39	1.46
8	S5	97	VAL	CA-CB	5.24	1.61	1.54
10	j5	7	SER	CA-CB	-5.24	1.45	1.53
10	j5	973	THR	C-O	-5.24	1.17	1.24
10	k5	271	THR	C-O	-5.24	1.17	1.23
8	C5	8	ILE	CA-CB	-5.24	1.47	1.54
8	W5	160	MET	N-CA	-5.24	1.39	1.46
10	j5	226	TYR	CA-C	-5.24	1.46	1.52
10	j5	772	TYR	N-CA	-5.24	1.39	1.46
10	k5	160	LEU	C-O	-5.24	1.18	1.24
10	k5	1023	SER	CB-OG	5.24	1.52	1.42
10	j5	472	TYR	CA-CB	-5.23	1.44	1.53
10	k5	462	TYR	CZ-OH	-5.23	1.27	1.38
11	a9	43	GLU	C-O	-5.23	1.17	1.23
11	aA	43	GLU	C-O	-5.23	1.17	1.23
10	j5	758	ALA	CA-C	-5.23	1.46	1.52
10	j5	946	ASP	CA-C	-5.23	1.46	1.53
10	k5	585	ARG	CA-C	-5.23	1.46	1.52
8	q7	97	VAL	CA-CB	5.23	1.61	1.54
4	M4	7	SER	C-O	5.23	1.30	1.24
10	j5	859	ILE	CA-C	-5.23	1.45	1.52
10	k5	859	ILE	CA-C	-5.23	1.45	1.52
8	c7	114	GLU	C-O	-5.23	1.17	1.24
4	M8	234	SER	N-CA	-5.23	1.39	1.46
4	MA	14	LEU	N-CA	-5.23	1.39	1.46
10	k5	946	ASP	CA-C	-5.23	1.46	1.53
4	M9	14	LEU	N-CA	-5.23	1.39	1.46
10	j5	508	ILE	CA-CB	-5.23	1.48	1.54
10	j5	840	ALA	CA-CB	-5.23	1.45	1.53
10	j5	997	ILE	CA-CB	-5.23	1.48	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	1023	SER	CB-OG	5.23	1.52	1.42
10	k5	508	ILE	CA-CB	-5.23	1.48	1.54
10	k5	997	ILE	CA-CB	-5.23	1.48	1.54
10	k5	840	ALA	CA-CB	-5.23	1.45	1.53
8	Y5	97	VAL	CA-CB	5.22	1.61	1.54
5	NA	26	LEU	N-CA	-5.22	1.39	1.45
10	j5	682	GLU	CG-CD	-5.22	1.39	1.52
10	j5	884	TRP	CA-C	-5.22	1.46	1.52
10	k5	884	TRP	CA-C	-5.22	1.46	1.52
8	u7	97	VAL	CA-CB	5.22	1.61	1.54
5	N9	26	LEU	N-CA	-5.22	1.39	1.45
10	k5	226	TYR	CA-C	-5.22	1.46	1.52
10	k5	579	GLN	CA-C	-5.22	1.45	1.53
10	k5	816	ARG	CA-CB	-5.22	1.45	1.53
8	i7	125	ALA	CA-C	-5.22	1.46	1.52
8	o7	97	VAL	CA-CB	5.22	1.61	1.54
10	j5	981	ILE	CA-CB	-5.22	1.47	1.54
10	j5	1102	TYR	C-O	-5.22	1.18	1.24
10	k5	1102	TYR	C-O	-5.22	1.18	1.24
10	j5	537	ILE	N-CA	-5.21	1.39	1.46
10	k5	770	ALA	CA-C	-5.21	1.45	1.52
10	k5	848	ILE	CA-CB	-5.21	1.48	1.54
10	j5	939	GLN	CA-C	-5.21	1.46	1.52
10	k5	682	GLU	CG-CD	-5.21	1.39	1.52
10	k5	939	GLN	CA-C	-5.21	1.46	1.52
8	Q5	160	MET	N-CA	-5.21	1.39	1.46
10	j5	542	GLN	C-O	-5.21	1.17	1.23
10	j5	1027	ASN	N-CA	-5.21	1.39	1.46
10	k5	542	GLN	C-O	-5.21	1.17	1.23
10	k5	10	THR	CA-C	-5.21	1.48	1.53
10	k5	602	GLU	CA-CB	-5.21	1.44	1.53
4	M4	222	ARG	CA-C	-5.21	1.47	1.52
10	j5	195	SER	CA-C	-5.21	1.46	1.52
10	j5	1103	LEU	C-O	-5.21	1.18	1.24
10	k5	195	SER	CA-C	-5.21	1.46	1.52
10	k5	1103	LEU	C-O	-5.21	1.18	1.24
1	h7	50	THR	CA-C	-5.21	1.46	1.52
9	z7	58	THR	N-CA	-5.21	1.40	1.46
11	a9	776	TYR	C-O	-5.21	1.18	1.24
10	j5	1103	LEU	CA-C	-5.21	1.46	1.52
10	j5	816	ARG	CA-CB	-5.20	1.45	1.53
8	u7	38	ARG	C-O	-5.20	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	a9	420	ASN	CG-OD1	-5.20	1.13	1.23
11	aA	420	ASN	CG-OD1	-5.20	1.13	1.23
5	N3	26	LEU	N-CA	-5.20	1.39	1.45
1	J5	6	THR	CB-CG2	-5.20	1.35	1.52
8	e5	22	GLU	CA-C	-5.20	1.45	1.52
10	k5	758	ALA	CA-C	-5.20	1.46	1.52
10	k5	1135	LEU	CA-C	-5.20	1.46	1.53
5	N1	26	LEU	N-CA	-5.20	1.39	1.45
8	I5	8	ILE	CA-CB	-5.20	1.47	1.54
10	j5	803	LYS	CA-CB	-5.20	1.44	1.53
9	z7	35	GLU	C-O	-5.20	1.17	1.24
10	j5	11	VAL	C-O	-5.20	1.17	1.24
10	j5	574	GLN	CD-NE2	-5.20	1.22	1.33
10	j5	1133	GLU	CA-C	-5.20	1.45	1.52
10	k5	574	GLN	CD-NE2	-5.20	1.22	1.33
11	a9	582	MET	C-O	-5.20	1.17	1.24
11	aA	582	MET	C-O	-5.20	1.17	1.24
10	j5	462	TYR	CZ-OH	-5.20	1.27	1.38
10	k5	629	TYR	CA-CB	-5.20	1.45	1.53
4	M8	245	ASP	C-O	-5.20	1.18	1.24
1	F5	10	ASN	CA-C	-5.19	1.46	1.52
8	G5	51	VAL	CA-C	-5.19	1.46	1.52
4	MA	164	ARG	C-O	-5.19	1.18	1.24
10	j5	4	ARG	CA-C	-5.19	1.45	1.52
10	j5	457	THR	CB-OG1	-5.19	1.35	1.43
10	k5	457	THR	CB-OG1	-5.19	1.35	1.43
10	k5	913	VAL	N-CA	-5.19	1.40	1.46
4	M9	164	ARG	C-O	-5.19	1.18	1.24
4	M3	234	SER	N-CA	-5.19	1.39	1.46
8	C5	6	LYS	C-O	-5.19	1.15	1.23
4	M1	234	SER	N-CA	-5.19	1.39	1.46
4	M3	41	ASN	CA-CB	-5.19	1.45	1.53
10	j5	863	ILE	C-N	-5.19	1.27	1.33
10	k5	863	ILE	C-N	-5.19	1.27	1.33
4	M1	41	ASN	CA-CB	-5.19	1.45	1.53
10	j5	317	SER	C-O	-5.19	1.18	1.24
10	j5	728	PRO	N-CA	-5.19	1.40	1.47
10	j5	913	VAL	N-CA	-5.19	1.40	1.46
9	i5	60	VAL	C-O	-5.18	1.18	1.24
10	j5	897	SER	CB-OG	-5.18	1.31	1.42
10	k5	728	PRO	N-CA	-5.18	1.40	1.47
10	k5	897	SER	CB-OG	-5.18	1.31	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	z7	36	ASN	N-CA	-5.18	1.40	1.46
10	j5	526	MET	N-CA	-5.18	1.39	1.46
10	j5	680	PRO	CA-CB	-5.18	1.46	1.53
10	k5	433	SER	CA-CB	-5.18	1.45	1.53
10	k5	982	TYR	C-O	-5.18	1.17	1.24
8	a5	22	GLU	CA-C	-5.18	1.45	1.52
1	L5	10	ASN	CA-C	-5.18	1.46	1.52
8	a5	10	ASN	C-O	-5.18	1.17	1.24
9	z5	22	GLU	CA-CB	-5.18	1.46	1.53
10	j5	10	THR	CA-C	-5.18	1.48	1.53
10	j5	476	ASN	CA-C	-5.18	1.45	1.52
10	j5	537	ILE	CA-CB	-5.18	1.47	1.54
10	k5	4	ARG	CA-C	-5.18	1.45	1.52
3	LA	89	ILE	C-O	-5.18	1.18	1.24
10	j5	1001	TYR	N-CA	-5.18	1.40	1.46
3	L9	89	ILE	C-O	-5.18	1.18	1.24
8	e5	17	TYR	CA-CB	-5.18	1.44	1.53
8	M7	97	VAL	CA-CB	5.18	1.61	1.54
10	k5	463	THR	CB-CG2	-5.17	1.35	1.52
8	C5	22	GLU	CA-CB	-5.17	1.47	1.54
10	k5	497	ARG	CA-CB	-5.17	1.45	1.53
10	k5	860	LYS	N-CA	-5.17	1.39	1.46
4	M4	215	GLU	C-O	-5.17	1.17	1.24
8	a5	17	TYR	CA-CB	-5.17	1.44	1.53
10	j5	629	TYR	CA-CB	-5.17	1.45	1.53
10	j5	633	ARG	CA-C	-5.17	1.46	1.52
10	k5	632	ARG	CZ-NH2	-5.17	1.26	1.33
10	k5	633	ARG	CA-C	-5.17	1.46	1.52
8	G7	97	VAL	CA-CB	5.17	1.61	1.54
8	o7	38	ARG	C-O	-5.17	1.18	1.24
9	w7	35	GLU	C-O	-5.17	1.17	1.24
4	MA	235	PHE	C-O	-5.17	1.17	1.24
4	M4	44	SER	N-CA	-5.17	1.39	1.46
1	D5	6	THR	CB-CG2	-5.17	1.35	1.52
9	i5	20	GLY	N-CA	-5.17	1.37	1.45
4	M9	235	PHE	C-O	-5.17	1.17	1.24
11	a9	455	ASN	C-O	-5.17	1.18	1.24
11	aA	455	ASN	C-O	-5.17	1.18	1.24
10	j5	7	SER	CA-C	-5.17	1.45	1.52
10	j5	433	SER	CA-CB	-5.17	1.45	1.53
10	j5	724	GLU	N-CA	-5.17	1.39	1.46
1	b7	50	THR	CA-C	-5.17	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	u7	56	ASP	CA-CB	-5.17	1.45	1.53
4	M8	41	ASN	CA-CB	-5.17	1.45	1.53
10	j5	822	ARG	CA-CB	-5.17	1.45	1.53
10	k5	822	ARG	CA-CB	-5.17	1.45	1.53
10	k5	823	TYR	CB-CG	-5.17	1.40	1.51
9	w7	36	ASN	N-CA	-5.17	1.40	1.46
10	k5	452	VAL	CA-C	-5.17	1.47	1.52
8	S7	97	VAL	CA-CB	5.16	1.61	1.54
8	g7	22	GLU	CA-C	-5.16	1.44	1.52
9	w7	58	THR	N-CA	-5.16	1.40	1.46
4	MA	222	ARG	CA-C	-5.16	1.47	1.52
4	M9	222	ARG	CA-C	-5.16	1.47	1.52
3	LA	110	LEU	N-CA	-5.16	1.39	1.46
4	M3	44	SER	N-CA	-5.16	1.39	1.46
4	M4	41	ASN	CA-CB	-5.16	1.45	1.53
3	L9	110	LEU	N-CA	-5.16	1.39	1.46
11	a9	464	PRO	CA-CB	-5.16	1.47	1.53
11	aA	464	PRO	CA-CB	-5.16	1.47	1.53
4	M1	44	SER	N-CA	-5.16	1.39	1.46
10	j5	195	SER	C-O	-5.16	1.17	1.24
10	k5	680	PRO	CA-CB	-5.16	1.46	1.53
8	i7	131	ARG	C-O	-5.16	1.17	1.24
4	M8	222	ARG	CA-C	-5.16	1.47	1.52
10	j5	732	ARG	CA-CB	-5.16	1.46	1.52
10	k5	476	ASN	CA-C	-5.16	1.45	1.52
11	a9	803	ASN	N-CA	-5.16	1.39	1.46
11	aA	803	ASN	N-CA	-5.16	1.39	1.46
4	M3	222	ARG	CA-C	-5.15	1.47	1.52
10	k5	537	ILE	CA-CB	-5.15	1.47	1.54
4	M1	222	ARG	CA-C	-5.15	1.47	1.52
4	M3	164	ARG	C-O	-5.15	1.18	1.24
4	M4	164	ARG	C-O	-5.15	1.18	1.24
8	c5	97	VAL	CA-CB	5.15	1.61	1.54
10	k5	863	ILE	CA-CB	-5.15	1.47	1.54
11	aA	776	TYR	C-O	-5.15	1.18	1.24
4	M1	164	ARG	C-O	-5.15	1.18	1.24
1	D5	14	VAL	C-O	-5.15	1.18	1.24
10	j5	891	ALA	CA-CB	-5.15	1.44	1.53
4	M8	164	ARG	C-O	-5.15	1.18	1.24
10	k5	318	GLU	C-O	-5.15	1.18	1.24
4	MA	245	ASP	C-O	-5.15	1.18	1.24
10	j5	420	VAL	CA-CB	-5.15	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	860	LYS	N-CA	-5.15	1.39	1.46
4	M8	44	SER	N-CA	-5.15	1.39	1.46
4	M3	9	GLN	CA-C	5.15	1.57	1.52
10	j5	675	GLY	CA-C	-5.15	1.44	1.52
10	k5	675	GLY	CA-C	-5.15	1.44	1.52
10	k5	724	GLU	N-CA	-5.15	1.39	1.46
4	M1	9	GLN	CA-C	5.15	1.57	1.52
4	M3	235	PHE	C-O	-5.14	1.17	1.24
8	e5	10	ASN	C-O	-5.14	1.17	1.24
10	j5	861	ALA	CA-CB	-5.14	1.45	1.53
10	k5	777	ASP	N-CA	-5.14	1.39	1.46
9	z5	20	GLY	N-CA	-5.14	1.38	1.45
10	j5	632	ARG	CA-C	-5.14	1.46	1.52
10	k5	440	TYR	CZ-OH	-5.14	1.27	1.38
8	a7	22	GLU	C-O	-5.14	1.15	1.23
1	J5	14	VAL	C-O	-5.14	1.18	1.24
10	k5	18	ARG	CA-CB	-5.14	1.45	1.53
8	K5	128	GLU	C-O	-5.14	1.17	1.24
10	j5	502	GLY	CA-C	-5.14	1.44	1.52
10	j5	760	ASP	CA-C	-5.14	1.45	1.52
10	k5	502	GLY	CA-C	-5.14	1.44	1.52
4	M4	245	ASP	C-O	-5.14	1.18	1.24
10	j5	440	TYR	CZ-OH	-5.14	1.27	1.38
10	k5	1027	ASN	N-CA	-5.14	1.39	1.46
10	k5	1133	GLU	CA-C	-5.14	1.45	1.52
10	j5	610	SER	C-N	-5.13	1.26	1.33
10	k5	610	SER	C-N	-5.13	1.26	1.33
8	a7	22	GLU	CA-C	-5.13	1.44	1.52
8	c7	131	ARG	C-O	-5.13	1.17	1.24
10	j5	463	THR	CB-CG2	-5.13	1.35	1.52
10	j5	611	GLU	CA-CB	-5.13	1.45	1.53
9	z7	40	GLU	CA-CB	-5.13	1.45	1.53
4	MA	44	SER	N-CA	-5.13	1.39	1.46
4	M9	44	SER	N-CA	-5.13	1.39	1.46
4	M1	235	PHE	C-O	-5.13	1.17	1.24
10	j5	840	ALA	C-O	-5.13	1.17	1.23
1	h7	51	ILE	CA-CB	-5.13	1.47	1.54
1	b7	51	ILE	CA-CB	-5.13	1.47	1.54
10	k5	739	VAL	CA-CB	-5.13	1.47	1.54
10	k5	866	LEU	C-N	-5.13	1.28	1.34
9	w7	22	GLU	C-O	-5.13	1.17	1.24
8	I5	22	GLU	CA-CB	-5.13	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	497	ARG	CA-CB	-5.13	1.45	1.53
4	M3	262	ASP	CA-C	-5.12	1.47	1.53
4	M1	262	ASP	CA-C	-5.12	1.47	1.53
4	M4	262	ASP	CA-C	-5.12	1.47	1.53
10	j5	823	TYR	CB-CG	-5.12	1.40	1.51
10	j5	866	LEU	C-N	-5.12	1.28	1.34
8	c7	125	ALA	CA-C	-5.12	1.46	1.52
8	o7	56	ASP	CA-CB	-5.12	1.45	1.53
10	j5	396	GLY	CA-C	-5.12	1.44	1.51
10	j5	849	LYS	N-CA	-5.12	1.40	1.46
10	k5	396	GLY	CA-C	-5.12	1.44	1.51
10	k5	849	LYS	N-CA	-5.12	1.40	1.46
4	M9	245	ASP	C-O	-5.12	1.18	1.24
4	MA	262	ASP	CA-C	-5.12	1.47	1.53
9	i5	22	GLU	CA-CB	-5.12	1.46	1.53
10	j5	206	MET	C-O	-5.12	1.18	1.24
10	j5	763	SER	N-CA	-5.12	1.39	1.46
10	k5	206	MET	C-O	-5.12	1.18	1.24
4	M8	262	ASP	CA-C	-5.12	1.47	1.53
4	M9	262	ASP	CA-C	-5.12	1.47	1.53
9	z5	60	VAL	C-O	-5.12	1.18	1.24
10	j5	318	GLU	CA-C	-5.12	1.46	1.52
10	j5	610	SER	CA-CB	-5.12	1.45	1.53
10	j5	789	SER	CA-C	-5.12	1.44	1.52
10	k5	318	GLU	CA-C	-5.12	1.46	1.52
10	k5	610	SER	CA-CB	-5.12	1.45	1.53
8	g7	22	GLU	C-O	-5.12	1.15	1.23
11	a9	399	ILE	C-O	-5.12	1.19	1.24
11	aA	399	ILE	C-O	-5.12	1.19	1.24
10	j5	452	VAL	CA-C	-5.12	1.47	1.52
10	k5	891	ALA	CA-CB	-5.12	1.44	1.53
3	LA	87	GLU	N-CA	-5.11	1.40	1.46
10	j5	554	ASN	C-O	-5.11	1.17	1.24
10	j5	845	ALA	C-O	-5.11	1.17	1.24
10	k5	554	ASN	C-O	-5.11	1.17	1.24
9	z7	22	GLU	C-O	-5.11	1.17	1.24
3	L9	87	GLU	N-CA	-5.11	1.40	1.46
10	j5	347	PHE	CA-C	-5.11	1.46	1.52
10	j5	641	ASP	N-CA	-5.11	1.40	1.46
10	k5	195	SER	C-O	-5.11	1.17	1.24
10	k5	347	PHE	CA-C	-5.11	1.46	1.52
4	M8	215	GLU	C-O	-5.11	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	MA	232	VAL	C-O	-5.11	1.17	1.24
4	M3	74	LEU	C-O	-5.11	1.18	1.24
10	j5	777	ASP	N-CA	-5.11	1.40	1.46
10	k5	7	SER	CA-CB	-5.11	1.45	1.53
4	M9	232	VAL	C-O	-5.11	1.17	1.24
4	M1	74	LEU	C-O	-5.11	1.18	1.24
10	k5	410	GLU	N-CA	-5.11	1.40	1.46
10	k5	1001	TYR	CA-CB	-5.11	1.45	1.53
11	a9	315	LEU	C-O	-5.11	1.18	1.24
11	aA	315	LEU	C-O	-5.11	1.18	1.24
10	j5	732	ARG	CZ-NH1	-5.10	1.25	1.32
10	k5	402	ILE	N-CA	-5.10	1.40	1.46
10	k5	526	MET	N-CA	-5.10	1.39	1.46
10	k5	712	ARG	CZ-NH1	-5.10	1.25	1.32
11	a9	495	TYR	C-O	-5.10	1.18	1.24
11	aA	495	TYR	C-O	-5.10	1.18	1.24
8	A5	97	VAL	CA-CB	5.10	1.61	1.54
8	E5	128	GLU	C-O	-5.10	1.17	1.24
10	j5	642	ARG	N-CA	-5.10	1.39	1.46
10	k5	611	GLU	CA-CB	-5.10	1.45	1.53
3	LA	92	TYR	C-O	-5.10	1.18	1.24
4	M3	232	VAL	C-O	-5.10	1.17	1.24
8	A7	97	VAL	CA-CB	5.10	1.61	1.54
9	z5	42	GLN	CA-CB	-5.10	1.44	1.53
10	j5	863	ILE	CA-CB	-5.10	1.47	1.54
10	j5	1001	TYR	CA-CB	-5.10	1.45	1.53
10	k5	632	ARG	CA-C	-5.10	1.46	1.52
10	k5	642	ARG	N-CA	-5.10	1.39	1.46
8	i7	128	GLU	C-O	-5.10	1.18	1.24
3	L9	92	TYR	C-O	-5.10	1.18	1.24
4	M1	232	VAL	C-O	-5.10	1.17	1.24
10	k5	763	SER	N-CA	-5.10	1.39	1.46
4	M4	9	GLN	CA-C	5.09	1.57	1.52
10	j5	402	ILE	N-CA	-5.09	1.40	1.46
8	c7	128	GLU	C-O	-5.09	1.18	1.24
11	a9	497	ARG	C-O	-5.09	1.18	1.24
11	aA	497	ARG	C-O	-5.09	1.18	1.24
10	k5	975	ARG	C-O	-5.09	1.17	1.24
9	y7	38	PHE	C-O	-5.09	1.18	1.24
4	M3	245	ASP	C-O	-5.09	1.18	1.24
10	j5	18	ARG	CA-CB	-5.09	1.45	1.53
10	j5	632	ARG	CZ-NH2	-5.09	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	799	GLU	N-CA	-5.09	1.39	1.46
10	j5	1135	LEU	CA-C	-5.09	1.46	1.53
10	k5	799	GLU	N-CA	-5.09	1.39	1.46
10	k5	24	THR	C-O	-5.09	1.18	1.24
10	j5	516	THR	N-CA	-5.09	1.39	1.46
10	j5	772	TYR	CZ-OH	-5.09	1.27	1.38
10	k5	516	THR	N-CA	-5.09	1.39	1.46
9	y7	41	GLN	C-O	-5.08	1.18	1.24
10	j5	1041	ARG	CA-C	-5.08	1.46	1.53
10	k5	502	GLY	C-N	-5.08	1.26	1.33
10	k5	641	ASP	N-CA	-5.08	1.40	1.46
10	k5	760	ASP	CA-C	-5.08	1.46	1.52
11	a9	465	TYR	CA-C	-5.08	1.45	1.52
10	j5	568	ILE	CA-CB	-5.08	1.47	1.54
10	j5	612	ILE	CA-C	-5.08	1.45	1.52
10	k5	1001	TYR	N-CA	-5.08	1.40	1.46
11	aA	465	TYR	CA-C	-5.08	1.45	1.52
10	j5	984	ILE	C-O	-5.08	1.18	1.24
10	k5	658	TYR	CB-CG	-5.08	1.40	1.51
10	k5	984	ILE	C-O	-5.08	1.18	1.24
11	a9	580	THR	CA-C	-5.08	1.46	1.52
11	aA	580	THR	CA-C	-5.08	1.46	1.52
3	LA	113	LEU	CA-C	-5.08	1.46	1.52
10	k5	944	ALA	N-CA	-5.08	1.40	1.46
3	L9	113	LEU	CA-C	-5.08	1.46	1.52
4	M8	10	ARG	C-O	-5.08	1.18	1.24
4	MA	9	GLN	CA-C	5.08	1.57	1.52
4	MA	55	GLU	CA-CB	-5.08	1.45	1.53
4	M3	141	GLU	C-O	-5.08	1.18	1.24
10	j5	382	ILE	CA-CB	-5.08	1.48	1.54
10	j5	667	SER	CB-OG	-5.08	1.31	1.42
10	k5	1095	ALA	CA-C	-5.08	1.46	1.52
4	M9	9	GLN	CA-C	5.08	1.57	1.52
4	M9	55	GLU	CA-CB	-5.08	1.45	1.53
4	M1	141	GLU	C-O	-5.08	1.18	1.24
4	MA	143	VAL	CA-CB	-5.07	1.48	1.54
8	e5	17	TYR	CZ-OH	-5.07	1.27	1.38
10	j5	642	ARG	CZ-NH1	-5.07	1.25	1.32
10	k5	789	SER	CA-C	-5.07	1.45	1.52
4	M9	143	VAL	CA-CB	-5.07	1.48	1.54
4	M1	245	ASP	C-O	-5.07	1.18	1.24
10	j5	832	ALA	CA-CB	-5.07	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	k5	832	ALA	CA-CB	-5.07	1.44	1.53
10	k5	843	ASN	CG-OD1	-5.07	1.14	1.23
4	M4	235	PHE	C-O	-5.07	1.17	1.24
10	j5	894	TYR	CZ-OH	-5.07	1.27	1.38
10	j5	900	LEU	CB-CG	-5.07	1.43	1.53
10	k5	900	LEU	CB-CG	-5.07	1.43	1.53
9	w7	40	GLU	CA-CB	-5.07	1.45	1.53
4	MA	141	GLU	C-O	-5.07	1.18	1.24
10	k5	568	ILE	CA-CB	-5.07	1.47	1.54
4	M9	141	GLU	C-O	-5.07	1.18	1.24
4	M4	10	ARG	C-O	-5.07	1.18	1.24
9	z5	63	ALA	C-O	-5.07	1.17	1.24
10	j5	808	LEU	C-N	-5.07	1.26	1.33
4	M3	143	VAL	CA-CB	-5.07	1.48	1.54
8	C5	9	VAL	CA-CB	-5.07	1.48	1.54
10	j5	692	LEU	CA-CB	-5.07	1.46	1.53
10	k5	692	LEU	CA-CB	-5.07	1.46	1.53
10	k5	1041	ARG	CA-C	-5.07	1.46	1.53
4	M1	143	VAL	CA-CB	-5.07	1.48	1.54
10	j5	318	GLU	C-O	-5.06	1.18	1.24
10	j5	658	TYR	CB-CG	-5.06	1.40	1.51
10	j5	696	ARG	CZ-NH2	-5.06	1.26	1.33
10	k5	696	ARG	CZ-NH2	-5.06	1.26	1.33
4	M3	55	GLU	CA-CB	-5.06	1.45	1.53
4	M4	55	GLU	CA-CB	-5.06	1.45	1.53
10	j5	410	GLU	N-CA	-5.06	1.40	1.46
10	j5	843	ASN	CG-OD1	-5.06	1.14	1.23
10	k5	732	ARG	CZ-NH1	-5.06	1.25	1.32
10	k5	1120	PRO	C-O	-5.06	1.17	1.24
4	M1	55	GLU	CA-CB	-5.06	1.45	1.53
9	i5	63	ALA	C-O	-5.06	1.17	1.24
10	j5	711	PRO	CA-CB	-5.06	1.48	1.53
10	j5	382	ILE	CA-C	-5.06	1.46	1.52
10	k5	382	ILE	CA-C	-5.06	1.46	1.52
10	j5	630	ILE	CB-CG1	-5.06	1.43	1.53
10	j5	895	PRO	CA-CB	-5.06	1.46	1.53
10	k5	711	PRO	CA-CB	-5.06	1.48	1.53
10	k5	772	TYR	CZ-OH	-5.06	1.27	1.38
10	k5	840	ALA	C-O	-5.06	1.17	1.23
10	k5	894	TYR	CZ-OH	-5.06	1.27	1.38
4	M8	235	PHE	C-O	-5.06	1.17	1.24
11	a9	450	ARG	C-O	-5.06	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	aA	450	ARG	C-O	-5.06	1.18	1.24
4	M4	74	LEU	C-O	-5.06	1.18	1.24
9	i5	34	TYR	CB-CG	-5.06	1.40	1.51
10	j5	396	GLY	N-CA	-5.05	1.38	1.45
10	k5	396	GLY	N-CA	-5.05	1.38	1.45
4	M9	234	SER	C-O	-5.05	1.17	1.24
4	MA	74	LEU	C-O	-5.05	1.18	1.24
4	M4	61	ASN	CA-CB	-5.05	1.45	1.53
10	j5	502	GLY	C-N	-5.05	1.26	1.33
4	M9	74	LEU	C-O	-5.05	1.18	1.24
10	j5	712	ARG	CZ-NH1	-5.05	1.25	1.32
10	j5	1114	ARG	CA-C	-5.05	1.46	1.52
10	k5	732	ARG	CA-CB	-5.05	1.46	1.53
4	M8	55	GLU	CA-CB	-5.05	1.45	1.53
10	j5	460	ALA	CA-C	-5.05	1.46	1.52
10	j5	544	VAL	CA-C	-5.05	1.46	1.52
10	k5	826	THR	CB-CG2	-5.05	1.35	1.52
4	M8	9	GLN	CA-C	5.05	1.57	1.52
11	a9	32	ARG	CA-C	-5.05	1.46	1.52
11	a9	51	SER	C-O	-5.05	1.17	1.24
11	aA	32	ARG	CA-C	-5.05	1.46	1.52
11	aA	51	SER	C-O	-5.05	1.17	1.24
10	j5	505	VAL	CA-CB	-5.05	1.47	1.54
10	k5	505	VAL	CA-CB	-5.05	1.47	1.54
10	k5	807	ARG	N-CA	-5.05	1.40	1.46
8	C5	25	ARG	C-O	-5.05	1.17	1.24
10	j5	319	ALA	C-O	-5.05	1.18	1.24
10	j5	852	GLY	CA-C	-5.05	1.44	1.51
10	k5	852	GLY	CA-C	-5.05	1.44	1.51
8	c7	120	GLN	C-O	-5.05	1.17	1.23
4	M9	127	SER	C-O	-5.05	1.18	1.24
10	j5	700	SER	CA-C	-5.04	1.46	1.52
10	j5	789	SER	CA-CB	-5.04	1.46	1.54
10	j5	1095	ALA	CA-C	-5.04	1.46	1.52
10	k5	700	SER	CA-C	-5.04	1.46	1.52
10	k5	789	SER	CA-CB	-5.04	1.46	1.54
4	MA	61	ASN	CA-C	-5.04	1.46	1.52
10	k5	3	ILE	C-O	-5.04	1.18	1.24
10	k5	808	LEU	C-N	-5.04	1.26	1.33
4	M9	61	ASN	CA-C	-5.04	1.46	1.52
11	a9	588	VAL	C-O	5.04	1.31	1.24
11	aA	588	VAL	C-O	5.04	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M3	223	GLY	C-O	-5.04	1.17	1.24
10	k5	612	ILE	CA-C	-5.04	1.45	1.52
10	k5	845	ALA	C-O	-5.04	1.17	1.24
10	k5	1144	SER	CA-C	-5.04	1.46	1.52
11	a9	38	VAL	C-O	-5.04	1.18	1.24
11	aA	38	VAL	C-O	-5.04	1.18	1.24
4	M1	223	GLY	C-O	-5.04	1.17	1.24
10	j5	572	TYR	CZ-OH	-5.04	1.27	1.38
10	k5	23	GLU	C-O	-5.04	1.18	1.24
4	MA	169	ASN	C-O	-5.04	1.18	1.24
9	z5	34	TYR	CB-CG	-5.04	1.40	1.51
9	i5	42	GLN	CA-CB	-5.04	1.44	1.53
10	j5	907	GLN	CA-CB	-5.04	1.45	1.53
10	k5	414	ILE	C-O	-5.04	1.18	1.24
10	k5	1114	ARG	CA-C	-5.04	1.46	1.52
9	x7	41	GLN	C-O	-5.04	1.18	1.24
4	M9	169	ASN	C-O	-5.04	1.18	1.24
10	j5	826	THR	CB-CG2	-5.04	1.35	1.52
10	k5	544	VAL	CA-C	-5.04	1.46	1.52
10	k5	895	PRO	CA-CB	-5.04	1.46	1.53
11	a9	494	GLU	C-O	-5.04	1.18	1.24
4	M3	140	ARG	CA-C	-5.03	1.46	1.52
10	j5	24	THR	C-O	-5.03	1.18	1.24
10	j5	414	ILE	C-O	-5.03	1.18	1.24
10	j5	975	ARG	C-O	-5.03	1.17	1.24
10	k5	382	ILE	CA-CB	-5.03	1.48	1.54
10	k5	460	ALA	CA-C	-5.03	1.46	1.52
10	k5	907	GLN	CA-CB	-5.03	1.45	1.53
8	i7	117	ASN	CA-CB	-5.03	1.45	1.53
4	M1	140	ARG	CA-C	-5.03	1.46	1.52
10	k5	861	ALA	CA-CB	-5.03	1.45	1.53
8	c7	117	ASN	CA-CB	-5.03	1.45	1.53
10	j5	3	ILE	C-O	-5.03	1.18	1.24
10	k5	445	TYR	CA-C	-5.03	1.45	1.52
10	k5	572	TYR	CZ-OH	-5.03	1.27	1.38
10	k5	1034	GLU	CA-C	-5.03	1.46	1.52
4	M4	169	ASN	C-O	-5.03	1.18	1.24
10	j5	241	ALA	C-O	-5.03	1.21	1.23
10	j5	1034	GLU	CA-C	-5.03	1.46	1.52
10	k5	241	ALA	C-O	-5.03	1.21	1.23
10	k5	515	PRO	C-N	-5.03	1.26	1.33
10	k5	640	TYR	CA-CB	-5.03	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D5	38	VAL	C-N	-5.03	1.27	1.33
10	j5	944	ALA	N-CA	-5.02	1.40	1.46
10	k5	768	VAL	C-N	-5.02	1.26	1.33
3	LA	111	ASN	N-CA	-5.02	1.40	1.46
4	M4	223	GLY	C-O	-5.02	1.17	1.24
3	L9	111	ASN	N-CA	-5.02	1.40	1.46
4	MA	140	ARG	CA-C	-5.02	1.46	1.52
4	M3	175	GLY	C-O	-5.02	1.17	1.23
10	j5	731	GLU	CA-CB	-5.02	1.44	1.53
10	j5	1130	VAL	CA-CB	-5.02	1.48	1.54
10	k5	731	GLU	CA-CB	-5.02	1.44	1.53
4	M9	140	ARG	CA-C	-5.02	1.46	1.52
11	a9	449	ASN	CA-C	-5.02	1.46	1.52
11	aA	449	ASN	CA-C	-5.02	1.46	1.52
4	M1	175	GLY	C-O	-5.02	1.17	1.23
8	I5	9	VAL	CA-CB	-5.02	1.48	1.54
10	j5	712	ARG	N-CA	-5.02	1.40	1.46
10	k5	712	ARG	N-CA	-5.02	1.40	1.46
10	k5	836	PHE	N-CA	-5.02	1.39	1.45
8	Y7	97	VAL	CA-CB	5.02	1.61	1.54
11	a9	613	TYR	CA-C	-5.02	1.46	1.53
11	aA	613	TYR	CA-C	-5.02	1.46	1.53
10	k5	419	THR	CA-C	-5.01	1.46	1.52
10	k5	630	ILE	CB-CG1	-5.01	1.43	1.53
4	M3	10	ARG	C-O	-5.01	1.18	1.24
10	j5	933	ALA	N-CA	-5.01	1.39	1.46
10	k5	933	ALA	N-CA	-5.01	1.39	1.46
4	M1	10	ARG	C-O	-5.01	1.18	1.24
10	j5	1000	ILE	CA-C	-5.01	1.46	1.52
10	j5	1144	SER	CA-C	-5.01	1.46	1.52
10	k5	642	ARG	CZ-NH1	-5.01	1.25	1.32
11	aA	494	GLU	C-O	-5.01	1.18	1.24
10	j5	419	THR	CA-C	-5.01	1.46	1.52
10	k5	926	ALA	C-O	-5.01	1.17	1.24
4	M8	169	ASN	C-O	-5.01	1.18	1.24
4	M8	61	ASN	CA-CB	-5.01	1.45	1.53
4	M8	232	VAL	C-O	-5.01	1.17	1.24
4	M3	127	SER	C-O	-5.01	1.18	1.24
4	M3	169	ASN	C-O	-5.01	1.18	1.24
8	e5	12	ASP	CB-CG	-5.01	1.39	1.52
9	z5	37	TRP	CD2-CE2	-5.01	1.32	1.41
9	z5	37	TRP	N-CA	-5.01	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	j5	482	GLN	CD-OE1	-5.01	1.14	1.23
10	k5	54	ILE	N-CA	-5.01	1.40	1.46
10	k5	277	ILE	CA-C	5.01	1.59	1.52
8	W7	97	VAL	CA-CB	5.01	1.61	1.54
9	z7	15	LYS	C-O	-5.01	1.18	1.24
9	w7	12	PRO	C-O	-5.01	1.17	1.23
4	M8	50	ASP	CB-CG	-5.01	1.39	1.52
4	M1	127	SER	C-O	-5.01	1.18	1.24
4	M1	169	ASN	C-O	-5.01	1.18	1.24
4	MA	175	GLY	C-O	-5.00	1.17	1.23
4	MA	223	GLY	C-O	-5.00	1.17	1.24
10	j5	531	THR	C-O	-5.00	1.17	1.24
10	k5	667	SER	CB-OG	-5.00	1.32	1.42
4	M9	175	GLY	C-O	-5.00	1.17	1.23
4	M9	223	GLY	C-O	-5.00	1.17	1.24
10	j5	23	GLU	C-O	-5.00	1.18	1.24
10	k5	49	ASP	CA-C	-5.00	1.46	1.52
10	k5	168	THR	C-O	-5.00	1.18	1.24
10	k5	684	TYR	CE1-CZ	-5.00	1.26	1.38
8	i7	120	GLN	C-O	-5.00	1.17	1.23
9	x7	38	PHE	C-O	-5.00	1.18	1.24
4	M9	210	ILE	C-O	-5.00	1.18	1.24
4	MA	210	ILE	C-O	-5.00	1.18	1.24
8	G5	52	LYS	CA-CB	-5.00	1.45	1.53
9	z5	67	VAL	CA-C	-5.00	1.46	1.52
10	k5	444	ASN	CA-CB	-5.00	1.45	1.53

All (2859) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	aA	354	VAL	O-C-N	-47.09	63.71	122.57
11	a9	354	VAL	O-C-N	-47.06	63.75	122.57
5	Z4	23	SER	CA-C-N	36.90	155.98	119.82
5	Z4	23	SER	C-N-CA	36.90	155.98	119.82
10	j5	743	VAL	CA-C-N	33.24	161.38	119.84
10	j5	743	VAL	C-N-CA	33.24	161.38	119.84
10	k5	743	VAL	CA-C-N	33.23	161.38	119.84
10	k5	743	VAL	C-N-CA	33.23	161.38	119.84
11	a9	351	THR	CA-C-N	28.61	155.60	119.84
11	a9	351	THR	C-N-CA	28.61	155.60	119.84
11	aA	351	THR	CA-C-N	28.57	155.56	119.84
11	aA	351	THR	C-N-CA	28.57	155.56	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	j5	701	ASP	N-CA-C	28.28	142.11	111.28
10	k5	701	ASP	N-CA-C	28.24	142.06	111.28
4	M8	269	SER	N-CA-C	-26.07	74.38	110.35
10	j5	489	ASN	N-CA-C	25.54	139.19	111.36
10	k5	489	ASN	N-CA-C	25.53	139.19	111.36
4	M8	231	THR	N-CA-CB	25.47	153.54	110.49
4	M8	6	THR	N-CA-C	25.33	152.22	113.72
4	M4	6	THR	N-CA-C	25.32	152.21	113.72
11	a9	372	ALA	CA-C-N	25.15	154.20	120.25
11	a9	372	ALA	C-N-CA	25.15	154.20	120.25
11	aA	372	ALA	CA-C-N	25.15	154.20	120.25
11	aA	372	ALA	C-N-CA	25.15	154.20	120.25
10	k5	1055	SER	O-C-N	-24.40	93.26	121.32
10	j5	1055	SER	O-C-N	-24.35	93.31	121.32
10	j5	484	GLY	N-CA-C	23.77	141.25	112.49
10	k5	484	GLY	N-CA-C	23.75	141.23	112.49
10	j5	175	ASP	CA-C-N	23.67	146.39	120.12
10	j5	175	ASP	C-N-CA	23.67	146.39	120.12
10	k5	175	ASP	CA-C-N	23.67	146.39	120.12
10	k5	175	ASP	C-N-CA	23.67	146.39	120.12
9	z5	24	GLN	N-CA-C	-23.64	84.59	113.20
9	i5	24	GLN	N-CA-C	-23.60	84.64	113.20
11	a9	638	ALA	N-CA-C	23.10	141.03	111.24
11	aA	638	ALA	N-CA-C	23.10	141.03	111.24
10	k5	919	ILE	N-CA-C	22.52	133.47	110.72
10	j5	919	ILE	N-CA-C	22.50	133.45	110.72
11	a9	283	GLN	CA-C-N	22.46	147.91	119.84
11	a9	283	GLN	C-N-CA	22.46	147.91	119.84
11	aA	283	GLN	CA-C-N	22.46	147.91	119.84
11	aA	283	GLN	C-N-CA	22.46	147.91	119.84
9	z5	24	GLN	CA-C-N	-22.39	82.30	120.58
9	z5	24	GLN	C-N-CA	-22.39	82.30	120.58
9	i5	24	GLN	CA-C-N	-22.37	82.33	120.58
9	i5	24	GLN	C-N-CA	-22.37	82.33	120.58
3	O8	108	ARG	N-CA-C	-22.18	77.54	110.14
2	U3	46	SER	N-CA-C	-22.04	74.68	110.17
8	U5	20	PRO	N-CA-CB	-21.47	80.70	103.25
3	L4	65	ASP	N-CA-C	-21.25	75.95	110.17
4	M8	135	GLY	N-CA-C	-21.07	77.01	112.83
4	M4	135	GLY	N-CA-C	-21.05	77.05	112.83
11	a9	573	SER	O-C-N	20.78	150.29	122.03
11	aA	573	SER	O-C-N	20.78	150.29	122.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M8	211	GLN	N-CA-CB	20.57	145.25	110.49
4	M8	136	SER	N-CA-CB	19.39	143.26	110.49
4	M4	136	SER	N-CA-CB	19.37	143.23	110.49
5	Z4	28	HIS	N-CA-CB	19.33	143.16	110.49
4	M8	78	GLY	CA-C-N	19.32	140.28	120.38
4	M8	78	GLY	C-N-CA	19.32	140.28	120.38
4	M4	78	GLY	CA-C-N	19.27	140.22	120.38
4	M4	78	GLY	C-N-CA	19.27	140.22	120.38
4	MA	78	GLY	CA-C-N	19.25	140.21	120.38
4	MA	78	GLY	C-N-CA	19.25	140.21	120.38
4	M9	78	GLY	CA-C-N	19.23	140.19	120.38
4	M9	78	GLY	C-N-CA	19.23	140.19	120.38
4	M3	78	GLY	CA-C-N	19.21	140.17	120.38
4	M3	78	GLY	C-N-CA	19.21	140.17	120.38
4	M1	78	GLY	CA-C-N	19.21	140.17	120.38
4	M1	78	GLY	C-N-CA	19.21	140.17	120.38
10	k5	486	ILE	N-CA-C	18.98	128.37	110.53
10	j5	486	ILE	N-CA-C	18.97	128.36	110.53
11	a9	621	THR	N-CA-C	18.80	137.62	109.24
3	F9	157	VAL	N-CA-C	18.79	128.46	110.42
11	aA	621	THR	N-CA-C	18.77	137.58	109.24
4	M8	225	LYS	N-CA-C	18.74	137.60	112.68
11	a9	604	ALA	CA-C-N	18.39	142.83	119.84
11	a9	604	ALA	C-N-CA	18.39	142.83	119.84
11	aA	604	ALA	CA-C-N	18.39	142.83	119.84
11	aA	604	ALA	C-N-CA	18.39	142.83	119.84
1	F7	18	TYR	CA-C-N	-18.20	95.47	120.95
1	F7	18	TYR	C-N-CA	-18.20	95.47	120.95
1	X7	18	TYR	CA-C-N	-18.18	95.49	120.95
1	X7	18	TYR	C-N-CA	-18.18	95.49	120.95
1	X5	18	TYR	CA-C-N	-18.17	95.52	120.95
1	X5	18	TYR	C-N-CA	-18.17	95.52	120.95
1	d7	18	TYR	CA-C-N	-18.16	95.53	120.95
1	d7	18	TYR	C-N-CA	-18.16	95.53	120.95
1	R5	18	TYR	CA-C-N	-18.16	95.53	120.95
1	R5	18	TYR	C-N-CA	-18.16	95.53	120.95
1	p7	18	TYR	CA-C-N	-18.14	95.55	120.95
1	p7	18	TYR	C-N-CA	-18.14	95.55	120.95
1	j7	18	TYR	CA-C-N	-18.14	95.56	120.95
1	j7	18	TYR	C-N-CA	-18.14	95.56	120.95
1	L7	18	TYR	CA-C-N	-18.14	95.56	120.95
1	L7	18	TYR	C-N-CA	-18.14	95.56	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	v7	18	TYR	CA-C-N	-18.13	95.56	120.95
1	v7	18	TYR	C-N-CA	-18.13	95.56	120.95
1	R7	18	TYR	CA-C-N	-18.13	95.57	120.95
1	R7	18	TYR	C-N-CA	-18.13	95.57	120.95
1	L5	18	TYR	CA-C-N	-18.12	95.58	120.95
1	L5	18	TYR	C-N-CA	-18.12	95.58	120.95
10	k5	882	PRO	CA-C-O	-18.10	91.45	120.05
10	j5	882	PRO	CA-C-O	-18.09	91.46	120.05
1	F5	18	TYR	CA-C-N	-18.09	95.62	120.95
1	F5	18	TYR	C-N-CA	-18.09	95.62	120.95
1	b5	18	TYR	CA-C-N	-18.04	95.69	120.95
1	b5	18	TYR	C-N-CA	-18.04	95.69	120.95
1	f5	18	TYR	CA-C-N	-18.00	95.75	120.95
1	f5	18	TYR	C-N-CA	-18.00	95.75	120.95
3	L4	66	LEU	N-CA-CB	17.25	139.65	110.49
3	L1	78	ARG	N-CA-CB	17.04	139.29	110.49
4	M8	226	SER	N-CA-CB	16.75	138.79	110.49
11	a9	313	GLU	N-CA-C	-16.62	90.48	111.75
11	aA	313	GLU	N-CA-C	-16.62	90.48	111.75
11	a9	573	SER	N-CA-C	16.59	135.00	112.93
11	aA	573	SER	N-CA-C	16.59	135.00	112.93
5	Z4	40	SER	N-CA-CB	16.57	138.49	110.49
10	j5	1004	VAL	N-CA-C	16.54	126.07	110.53
10	k5	1004	VAL	N-CA-C	16.53	126.07	110.53
10	k5	384	SER	CA-C-N	16.39	136.91	119.87
10	k5	384	SER	C-N-CA	16.39	136.91	119.87
10	j5	384	SER	CA-C-N	16.36	136.89	119.87
10	j5	384	SER	C-N-CA	16.36	136.89	119.87
4	M8	210	ILE	N-CA-C	-16.34	87.01	109.55
10	j5	704	THR	N-CA-C	16.32	128.76	111.14
3	Y4	109	CYS	CB-CA-C	-16.31	77.96	110.42
10	k5	704	THR	N-CA-C	16.30	128.75	111.14
2	U3	47	ASN	N-CA-CB	16.27	137.98	110.49
3	F9	144	SER	CA-C-N	16.22	140.12	119.84
3	F9	144	SER	C-N-CA	16.22	140.12	119.84
3	L1	77	ARG	N-CA-C	-15.90	85.07	110.20
5	Z4	27	ALA	CB-CA-C	15.78	141.82	110.42
1	j7	18	TYR	O-C-N	15.59	141.98	122.81
1	d7	18	TYR	O-C-N	15.58	141.97	122.81
1	F7	18	TYR	O-C-N	15.57	141.96	122.81
1	L7	18	TYR	O-C-N	15.57	141.96	122.81
1	X5	18	TYR	O-C-N	15.54	141.92	122.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	j5	728	PRO	CA-C-O	-15.54	95.62	119.86
1	X7	18	TYR	O-C-N	15.52	141.90	122.81
10	k5	728	PRO	CA-C-O	-15.51	95.66	119.86
1	R7	18	TYR	O-C-N	15.51	141.89	122.81
11	a9	615	ARG	CA-C-N	15.46	135.69	119.76
11	a9	615	ARG	C-N-CA	15.46	135.69	119.76
11	aA	615	ARG	CA-C-N	15.46	135.69	119.76
11	aA	615	ARG	C-N-CA	15.46	135.69	119.76
1	R5	18	TYR	O-C-N	15.46	141.82	122.81
1	p7	18	TYR	O-C-N	15.46	141.82	122.81
10	j5	291	ASP	N-CA-C	-15.44	95.29	114.75
10	k5	291	ASP	N-CA-C	-15.44	95.29	114.75
1	v7	18	TYR	O-C-N	15.44	141.80	122.81
1	b5	18	TYR	O-C-N	15.43	141.79	122.81
1	F5	18	TYR	O-C-N	15.41	141.76	122.81
1	L5	18	TYR	O-C-N	15.40	141.75	122.81
1	f5	18	TYR	O-C-N	15.38	141.72	122.81
11	a9	282	ALA	N-CA-C	15.30	127.95	111.28
11	aA	282	ALA	N-CA-C	15.30	127.95	111.28
10	j5	743	VAL	N-CA-C	15.28	130.68	112.35
10	k5	777	ASP	N-CA-C	15.27	128.77	110.91
10	k5	743	VAL	N-CA-C	15.27	130.67	112.35
10	j5	1106	PHE	N-CA-C	-15.25	82.99	108.76
10	j5	428	VAL	N-CA-C	15.24	126.17	110.62
10	j5	18	ARG	N-CA-C	15.21	127.94	111.36
10	j5	777	ASP	N-CA-C	15.20	128.70	110.91
10	k5	428	VAL	N-CA-C	15.20	126.12	110.62
10	k5	18	ARG	N-CA-C	15.19	127.92	111.36
9	z5	61	GLN	N-CA-C	15.00	127.62	111.28
9	i5	61	GLN	N-CA-C	14.98	127.61	111.28
11	a9	58	GLY	N-CA-C	14.93	130.56	112.49
11	aA	58	GLY	N-CA-C	14.93	130.56	112.49
10	j5	501	ILE	N-CA-C	14.88	127.24	111.77
10	k5	501	ILE	N-CA-C	14.86	127.22	111.77
10	j5	1143	LEU	N-CA-C	14.52	126.82	111.14
10	k5	1143	LEU	N-CA-C	14.49	126.79	111.14
11	a9	354	VAL	CA-C-N	14.46	147.73	121.70
11	a9	354	VAL	C-N-CA	14.46	147.73	121.70
11	aA	354	VAL	CA-C-N	14.44	147.70	121.70
11	aA	354	VAL	C-N-CA	14.44	147.70	121.70
11	aA	32	ARG	N-CA-C	-14.39	95.60	111.14
11	a9	32	ARG	N-CA-C	-14.38	95.61	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	O5	20	PRO	N-CA-CB	-14.36	88.17	103.25
11	a9	631	GLY	N-CA-C	-14.35	79.18	113.18
11	aA	631	GLY	N-CA-C	-14.35	79.18	113.18
9	z7	58	THR	N-CA-C	14.32	126.61	111.14
9	w7	58	THR	N-CA-C	14.28	126.56	111.14
8	a5	7	ALA	N-CA-C	14.18	131.42	113.55
8	e5	7	ALA	N-CA-C	14.13	131.35	113.55
3	Y4	109	CYS	N-CA-C	14.11	140.86	110.80
10	k5	1011	ILE	CA-C-N	14.09	134.90	120.38
10	k5	1011	ILE	C-N-CA	14.09	134.90	120.38
10	j5	1011	ILE	CA-C-N	14.07	134.87	120.38
10	j5	1011	ILE	C-N-CA	14.07	134.87	120.38
3	H2	83	LEU	O-C-N	-13.97	107.31	122.12
8	c7	124	PRO	CA-C-N	-13.88	102.40	120.44
8	c7	124	PRO	C-N-CA	-13.88	102.40	120.44
3	H6	83	LEU	O-C-N	-13.87	107.42	122.12
8	i7	124	PRO	CA-C-N	-13.86	102.42	120.44
8	i7	124	PRO	C-N-CA	-13.86	102.42	120.44
11	a9	280	ASP	CA-C-N	13.79	134.22	119.87
11	a9	280	ASP	C-N-CA	13.79	134.22	119.87
11	aA	280	ASP	CA-C-N	13.77	134.19	119.87
11	aA	280	ASP	C-N-CA	13.77	134.19	119.87
9	w7	38	PHE	N-CA-C	13.61	126.11	111.28
9	z7	38	PHE	N-CA-C	13.61	126.11	111.28
8	c7	124	PRO	N-CA-C	-13.48	97.01	113.86
8	i7	124	PRO	N-CA-C	-13.44	97.06	113.86
11	a9	540	ILE	CB-CA-C	-13.44	98.40	111.30
11	aA	540	ILE	CB-CA-C	-13.44	98.40	111.30
8	s7	20	PRO	N-CA-CB	-13.35	89.24	103.25
10	k5	1147	TYR	N-CA-C	13.28	125.83	111.36
10	j5	1147	TYR	N-CA-C	13.25	125.80	111.36
4	M4	6	THR	CB-CA-C	-13.08	85.15	110.65
4	M8	6	THR	CB-CA-C	-13.07	85.15	110.65
4	M8	270	GLY	N-CA-C	13.00	132.40	112.51
4	M8	4	LEU	N-CA-C	12.93	127.60	110.53
4	M4	4	LEU	N-CA-C	12.93	127.60	110.53
10	k5	673	VAL	N-CA-C	12.92	122.68	110.53
4	M8	142	PHE	N-CA-C	-12.92	96.85	111.71
4	M3	4	LEU	N-CA-C	12.92	127.58	110.53
4	M1	4	LEU	N-CA-C	12.92	127.58	110.53
10	j5	673	VAL	N-CA-C	12.91	122.67	110.53
10	j5	426	LEU	N-CA-C	12.90	125.34	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	MA	4	LEU	N-CA-C	12.90	127.56	110.53
4	M9	4	LEU	N-CA-C	12.90	127.56	110.53
10	k5	426	LEU	N-CA-C	12.86	125.30	111.28
11	a9	82	GLN	N-CA-CB	-12.79	88.45	109.56
11	aA	82	GLN	N-CA-CB	-12.79	88.45	109.56
8	O5	22	GLU	CB-CA-C	-12.60	88.87	110.17
11	aA	299	PRO	N-CA-C	-12.54	95.06	113.75
11	aA	625	ASP	N-CA-C	-12.44	97.80	111.36
11	a9	625	ASP	N-CA-C	-12.43	97.81	111.36
4	M4	63	GLY	N-CA-C	12.41	131.78	115.40
4	MA	63	GLY	N-CA-C	12.38	131.75	115.40
4	M9	63	GLY	N-CA-C	12.38	131.75	115.40
4	M8	63	GLY	N-CA-C	12.38	131.74	115.40
4	M3	63	GLY	N-CA-C	12.36	131.71	115.40
10	k5	136	VAL	CA-C-N	12.36	133.11	120.38
10	k5	136	VAL	C-N-CA	12.36	133.11	120.38
4	M1	63	GLY	N-CA-C	12.36	131.71	115.40
10	j5	136	VAL	CA-C-N	12.34	133.09	120.38
10	j5	136	VAL	C-N-CA	12.34	133.09	120.38
10	k5	1115	ARG	N-CA-C	12.31	128.94	113.43
11	a9	67	GLN	CA-C-N	-12.31	98.03	121.54
11	a9	67	GLN	C-N-CA	-12.31	98.03	121.54
11	aA	67	GLN	CA-C-N	-12.31	98.03	121.54
11	aA	67	GLN	C-N-CA	-12.31	98.03	121.54
10	j5	1115	ARG	N-CA-C	12.30	128.92	113.43
8	I5	24	ASP	N-CA-C	-12.28	94.65	111.96
8	C5	24	ASP	N-CA-C	-12.24	94.70	111.96
10	j5	395	SER	N-CA-C	-12.22	89.73	108.67
10	k5	395	SER	N-CA-C	-12.21	89.74	108.67
9	i5	26	THR	N-CA-C	12.09	124.46	111.28
10	j5	611	GLU	N-CA-C	12.08	124.52	111.36
5	Z4	25	THR	N-CA-C	-12.07	98.21	111.36
10	k5	611	GLU	N-CA-C	12.07	124.51	111.36
10	k5	317	SER	N-CA-C	12.04	124.14	111.14
10	j5	317	SER	N-CA-C	12.03	124.14	111.14
9	z5	26	THR	N-CA-C	11.98	124.34	111.28
4	M9	33	LEU	N-CA-C	11.91	131.82	113.72
4	MA	33	LEU	N-CA-C	11.91	131.82	113.72
4	M4	33	LEU	N-CA-C	11.90	131.81	113.72
4	M3	33	LEU	N-CA-C	11.89	131.79	113.72
4	M1	33	LEU	N-CA-C	11.89	131.79	113.72
4	M8	33	LEU	N-CA-C	11.87	131.77	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	F9	141	TYR	N-CA-C	11.83	124.17	111.28
10	k5	1119	LEU	N-CA-C	11.82	135.94	109.81
10	j5	1119	LEU	N-CA-C	11.80	135.88	109.81
10	k5	584	GLN	N-CA-C	11.74	124.08	111.28
10	j5	584	GLN	N-CA-C	11.71	124.05	111.28
10	k5	247	ARG	CA-C-N	11.70	131.46	119.76
10	k5	247	ARG	C-N-CA	11.70	131.46	119.76
5	NA	34	LEU	N-CA-C	11.69	127.44	111.54
5	N9	34	LEU	N-CA-C	11.69	127.44	111.54
5	N3	34	LEU	N-CA-C	11.69	127.44	111.54
10	j5	19	THR	N-CA-C	11.69	127.65	111.17
5	N1	34	LEU	N-CA-C	11.69	127.44	111.54
10	k5	19	THR	N-CA-C	11.69	127.64	111.17
10	k5	140	PHE	N-CA-C	-11.68	84.70	108.18
4	M8	231	THR	N-CA-C	-11.67	85.93	110.80
10	j5	140	PHE	N-CA-C	-11.66	84.73	108.18
10	j5	247	ARG	CA-C-N	11.66	131.42	119.76
10	j5	247	ARG	C-N-CA	11.66	131.42	119.76
11	a9	289	THR	N-CA-C	11.65	127.38	111.54
11	aA	289	THR	N-CA-C	11.65	127.38	111.54
5	Z8	34	LEU	N-CA-C	11.64	127.37	111.54
10	j5	268	SER	N-CA-C	11.61	127.03	112.86
5	Z4	34	LEU	N-CA-C	11.60	127.40	111.39
10	k5	268	SER	N-CA-C	11.60	127.01	112.86
11	a9	553	SER	N-CA-C	11.47	125.13	111.82
8	m7	20	PRO	N-CA-CB	-11.42	91.26	103.25
10	k5	889	LEU	CA-C-N	11.41	154.39	127.00
10	k5	889	LEU	C-N-CA	11.41	154.39	127.00
10	j5	889	LEU	CA-C-N	11.40	154.36	127.00
10	j5	889	LEU	C-N-CA	11.40	154.36	127.00
10	k5	728	PRO	N-CA-C	11.37	129.34	113.53
10	j5	728	PRO	N-CA-C	11.37	129.34	113.53
10	k5	823	TYR	CA-C-N	11.33	131.45	119.78
10	k5	823	TYR	C-N-CA	11.33	131.45	119.78
10	j5	823	TYR	CA-C-N	11.26	131.38	119.78
10	j5	823	TYR	C-N-CA	11.26	131.38	119.78
5	NA	23	SER	CA-C-N	-11.24	101.55	120.88
5	NA	23	SER	C-N-CA	-11.24	101.55	120.88
5	N9	23	SER	CA-C-N	-11.24	101.55	120.88
5	N9	23	SER	C-N-CA	-11.24	101.55	120.88
5	N3	23	SER	CA-C-N	-11.23	101.56	120.88
5	N3	23	SER	C-N-CA	-11.23	101.56	120.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	N1	23	SER	CA-C-N	-11.23	101.56	120.88
5	N1	23	SER	C-N-CA	-11.23	101.56	120.88
5	Z8	23	SER	CA-C-N	-11.22	101.59	120.88
5	Z8	23	SER	C-N-CA	-11.22	101.59	120.88
1	F5	3	ASP	CB-CA-C	-11.18	95.37	113.37
1	L5	3	ASP	CB-CA-C	-11.16	95.39	113.37
10	j5	1006	ASP	N-CA-C	11.07	124.40	111.11
10	k5	1006	ASP	N-CA-C	11.07	124.40	111.11
11	aA	602	PRO	CA-C-O	11.07	133.83	121.43
10	j5	663	ALA	CA-C-N	-11.07	105.45	120.28
10	j5	663	ALA	C-N-CA	-11.07	105.45	120.28
11	a9	602	PRO	CA-C-O	11.03	133.78	121.43
10	j5	397	GLY	N-CA-C	-11.02	87.07	113.18
10	k5	397	GLY	N-CA-C	-11.02	87.07	113.18
10	k5	663	ALA	CA-C-N	-11.01	105.52	120.28
10	k5	663	ALA	C-N-CA	-11.01	105.52	120.28
10	j5	33	ARG	N-CA-C	11.00	134.23	110.80
10	k5	33	ARG	N-CA-C	10.99	134.22	110.80
11	a9	359	ASP	CA-C-N	10.97	135.87	120.29
11	a9	359	ASP	C-N-CA	10.97	135.87	120.29
11	aA	359	ASP	CA-C-N	10.97	135.87	120.29
11	aA	359	ASP	C-N-CA	10.97	135.87	120.29
10	k5	371	SER	N-CA-CB	-10.96	94.57	111.56
10	j5	371	SER	N-CA-CB	-10.95	94.58	111.56
11	a9	351	THR	C-N-CD	-10.85	80.50	125.00
11	aA	351	THR	C-N-CD	-10.85	80.50	125.00
11	a9	110	PHE	N-CA-C	10.84	126.25	112.92
11	aA	110	PHE	N-CA-C	10.84	126.25	112.92
10	j5	146	ALA	N-CA-C	10.84	122.84	111.14
10	j5	492	ILE	N-CA-C	10.83	120.82	110.42
10	k5	146	ALA	N-CA-C	10.82	122.82	111.14
11	a9	630	LEU	N-CA-C	10.80	122.63	111.07
3	FA	141	TYR	N-CA-C	10.79	124.12	111.71
10	k5	492	ILE	N-CA-C	10.79	120.77	110.42
10	j5	847	LEU	N-CA-C	-10.78	98.17	111.11
10	k5	847	LEU	N-CA-C	-10.78	98.17	111.11
11	aA	630	LEU	N-CA-C	10.78	122.60	111.07
4	M4	95	ALA	N-CA-C	-10.74	91.91	109.96
11	a9	574	ASP	N-CA-C	10.73	124.69	110.53
11	aA	574	ASP	N-CA-C	10.73	124.69	110.53
10	j5	373	ALA	CA-C-N	10.72	136.61	120.31
10	j5	373	ALA	C-N-CA	10.72	136.61	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M8	47	VAL	N-CA-CB	-10.72	101.01	112.37
4	M4	47	VAL	N-CA-CB	-10.72	101.01	112.37
10	k5	373	ALA	CA-C-N	10.70	136.57	120.31
10	k5	373	ALA	C-N-CA	10.70	136.57	120.31
4	MA	47	VAL	N-CA-CB	-10.66	101.07	112.37
4	M9	47	VAL	N-CA-CB	-10.66	101.07	112.37
4	M3	47	VAL	N-CA-CB	-10.66	101.07	112.37
4	M1	47	VAL	N-CA-CB	-10.66	101.07	112.37
3	F4	110	LEU	N-CA-CB	-10.65	92.49	110.49
9	z7	22	GLU	N-CA-C	10.62	133.43	110.80
9	w7	22	GLU	N-CA-C	10.61	133.41	110.80
10	j5	253	ARG	CA-C-N	10.61	131.27	119.92
10	j5	253	ARG	C-N-CA	10.61	131.27	119.92
10	k5	582	GLN	N-CA-C	10.58	122.82	111.28
10	k5	253	ARG	CA-C-N	10.58	131.24	119.92
10	k5	253	ARG	C-N-CA	10.58	131.24	119.92
10	j5	582	GLN	N-CA-C	10.57	122.80	111.28
11	a9	52	MET	N-CA-C	-10.45	99.80	112.54
11	aA	52	MET	N-CA-C	-10.45	99.80	112.54
10	k5	842	LYS	N-CA-C	10.44	122.41	111.14
10	j5	842	LYS	N-CA-C	10.38	122.35	111.14
10	j5	776	PHE	N-CA-CB	10.33	127.95	110.49
3	Q8	109	CYS	N-CA-C	10.32	132.79	110.80
10	k5	776	PHE	N-CA-CB	10.30	127.89	110.49
10	k5	467	PRO	CA-C-N	-10.29	109.08	122.77
10	k5	467	PRO	C-N-CA	-10.29	109.08	122.77
3	O8	109	CYS	N-CA-C	10.29	132.72	110.80
10	j5	467	PRO	CA-C-N	-10.26	109.13	122.77
10	j5	467	PRO	C-N-CA	-10.26	109.13	122.77
10	j5	988	ALA	N-CA-C	10.25	128.61	109.24
10	k5	641	ASP	CB-CA-C	-10.24	91.10	111.17
10	k5	988	ALA	N-CA-C	10.24	128.59	109.24
11	a9	288	ARG	CA-C-N	10.23	136.71	122.07
11	a9	288	ARG	C-N-CA	10.23	136.71	122.07
11	aA	288	ARG	CA-C-N	10.23	136.71	122.07
11	aA	288	ARG	C-N-CA	10.23	136.71	122.07
4	MA	179	TYR	N-CA-C	10.23	123.48	111.71
10	j5	641	ASP	CB-CA-C	-10.23	91.12	111.17
4	M9	179	TYR	N-CA-C	10.23	123.48	111.71
10	j5	191	GLU	N-CA-C	10.22	124.85	112.38
10	k5	191	GLU	N-CA-C	10.22	124.85	112.38
10	k5	261	ILE	N-CA-C	-10.22	100.21	112.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M4	179	TYR	N-CA-C	10.22	123.46	111.71
4	M3	179	TYR	N-CA-C	10.21	123.46	111.71
4	M1	179	TYR	N-CA-C	10.21	123.46	111.71
10	j5	261	ILE	N-CA-C	-10.21	100.22	112.98
10	j5	486	ILE	CA-C-O	-10.20	109.73	121.05
10	k5	486	ILE	CA-C-O	-10.20	109.73	121.05
10	k5	393	MET	CA-C-N	10.19	132.58	119.84
10	k5	393	MET	C-N-CA	10.19	132.58	119.84
10	k5	889	LEU	C-N-CD	-10.19	98.19	120.60
4	M8	179	TYR	N-CA-C	10.18	123.42	111.71
10	j5	889	LEU	C-N-CD	-10.16	98.25	120.60
10	j5	393	MET	CA-C-N	10.15	132.53	119.84
10	j5	393	MET	C-N-CA	10.15	132.53	119.84
10	j5	947	MET	N-CA-C	10.11	132.33	110.80
10	k5	947	MET	N-CA-C	10.10	132.32	110.80
8	a5	25	ARG	N-CA-C	-10.10	100.11	111.82
4	M8	122	SER	CA-C-N	10.08	133.79	120.28
4	M8	122	SER	C-N-CA	10.08	133.79	120.28
10	j5	730	ASN	N-CA-CB	10.07	127.52	110.49
10	k5	730	ASN	N-CA-CB	10.07	127.51	110.49
4	MA	122	SER	CA-C-N	10.05	133.75	120.28
4	MA	122	SER	C-N-CA	10.05	133.75	120.28
9	x7	19	THR	N-CA-C	10.05	125.83	113.17
4	M9	122	SER	CA-C-N	10.05	133.75	120.28
4	M9	122	SER	C-N-CA	10.05	133.75	120.28
9	y7	19	THR	N-CA-C	10.01	125.79	113.17
9	z5	58	THR	N-CA-C	9.99	125.78	113.50
10	j5	969	VAL	N-CA-C	9.95	125.97	112.04
10	k5	969	VAL	N-CA-C	9.93	125.94	112.04
10	j5	743	VAL	C-N-CD	-9.90	84.40	125.00
10	k5	743	VAL	C-N-CD	-9.89	84.44	125.00
10	k5	370	GLU	N-CA-C	9.83	125.02	112.92
11	a9	823	ILE	N-CA-C	-9.83	95.69	106.21
10	j5	370	GLU	N-CA-C	9.81	124.99	112.92
10	k5	1118	THR	N-CA-C	9.81	122.05	111.36
8	K5	121	THR	CA-C-N	-9.81	108.04	120.79
8	K5	121	THR	C-N-CA	-9.81	108.04	120.79
8	E5	121	THR	CA-C-N	-9.81	108.04	120.79
8	E5	121	THR	C-N-CA	-9.81	108.04	120.79
8	W7	121	THR	CA-C-N	-9.81	108.04	120.79
8	W7	121	THR	C-N-CA	-9.81	108.04	120.79
8	E7	121	THR	CA-C-N	-9.80	108.05	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	E7	121	THR	C-N-CA	-9.80	108.05	120.79
10	j5	619	GLU	CB-CG-CD	-9.79	95.97	112.60
8	K7	121	THR	CA-C-N	-9.79	108.07	120.79
8	K7	121	THR	C-N-CA	-9.79	108.07	120.79
10	k5	619	GLU	CB-CG-CD	-9.78	95.97	112.60
9	z5	56	LEU	O-C-N	9.77	132.13	122.07
10	j5	1118	THR	N-CA-C	9.76	122.00	111.36
9	i5	56	LEU	O-C-N	9.76	132.12	122.07
10	j5	564	VAL	CB-CA-C	-9.75	98.77	112.22
4	MA	98	ASP	N-CA-C	9.74	125.16	113.28
4	M9	98	ASP	N-CA-C	9.74	125.16	113.28
8	W5	121	THR	CA-C-N	-9.73	108.14	120.79
8	W5	121	THR	C-N-CA	-9.73	108.14	120.79
8	Q7	121	THR	CA-C-N	-9.72	108.15	120.79
8	Q7	121	THR	C-N-CA	-9.72	108.15	120.79
4	M8	99	VAL	N-CA-CB	9.72	127.27	111.23
10	k5	564	VAL	CB-CA-C	-9.72	98.81	112.22
8	Q5	121	THR	CA-C-N	-9.72	108.16	120.79
8	Q5	121	THR	C-N-CA	-9.72	108.16	120.79
4	M3	98	ASP	N-CA-C	9.72	125.13	113.28
4	M1	98	ASP	N-CA-C	9.72	125.13	113.28
10	k5	1105	ILE	N-CA-C	9.67	119.62	110.53
11	a9	57	PHE	N-CA-C	9.67	126.79	114.31
11	aA	57	PHE	N-CA-C	9.67	126.79	114.31
8	u7	121	THR	CA-C-N	-9.67	108.22	120.79
8	u7	121	THR	C-N-CA	-9.67	108.22	120.79
8	o7	121	THR	CA-C-N	-9.67	108.22	120.79
8	o7	121	THR	C-N-CA	-9.67	108.22	120.79
10	j5	1105	ILE	N-CA-C	9.66	119.61	110.53
10	j5	391	SER	N-CA-C	-9.65	100.84	111.36
10	j5	701	ASP	CA-C-O	-9.63	110.34	120.55
9	z7	11	ILE	N-CA-C	9.61	117.88	107.60
10	k5	701	ASP	CA-C-O	-9.61	110.37	120.55
11	a9	620	ALA	N-CA-C	9.60	131.24	110.80
11	aA	620	ALA	N-CA-C	9.60	131.24	110.80
10	k5	391	SER	N-CA-C	-9.59	100.91	111.36
10	k5	492	ILE	CA-C-O	-9.59	111.00	121.17
9	w7	11	ILE	N-CA-C	9.58	117.85	107.60
4	M8	61	ASN	CB-CA-C	-9.58	95.77	110.90
11	aA	637	PRO	CA-C-N	9.57	136.38	120.88
11	aA	637	PRO	C-N-CA	9.57	136.38	120.88
11	a9	637	PRO	CA-C-N	9.56	136.37	120.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	a9	637	PRO	C-N-CA	9.56	136.37	120.88
8	e5	25	ARG	N-CA-C	-9.56	100.73	111.82
10	j5	492	ILE	CA-C-O	-9.56	111.04	121.17
4	MA	61	ASN	CB-CA-C	-9.55	95.80	110.90
4	M9	61	ASN	CB-CA-C	-9.55	95.80	110.90
1	D5	38	VAL	CA-C-N	-9.55	108.05	120.65
1	D5	38	VAL	C-N-CA	-9.55	108.05	120.65
4	M4	61	ASN	CB-CA-C	-9.54	95.82	110.90
1	J5	38	VAL	CA-C-N	-9.54	108.06	120.65
1	J5	38	VAL	C-N-CA	-9.54	108.06	120.65
4	M3	61	ASN	CB-CA-C	-9.53	95.84	110.90
4	M1	61	ASN	CB-CA-C	-9.53	95.84	110.90
5	Z4	24	PRO	CA-C-N	9.51	133.80	120.29
5	Z4	24	PRO	C-N-CA	9.51	133.80	120.29
5	Z8	25	THR	CB-CA-C	-9.50	95.89	110.90
5	NA	25	THR	CB-CA-C	-9.48	95.92	110.90
5	N3	25	THR	CB-CA-C	-9.48	95.93	110.90
5	N1	25	THR	CB-CA-C	-9.48	95.93	110.90
5	N9	25	THR	CB-CA-C	-9.47	95.94	110.90
10	k5	740	ASN	N-CA-C	9.46	124.89	113.16
10	j5	740	ASN	N-CA-C	9.46	124.88	113.16
4	M8	269	SER	CB-CA-C	9.44	132.77	111.71
10	k5	775	VAL	O-C-N	-9.44	112.33	122.61
9	z5	14	LEU	N-CA-C	9.43	121.64	111.36
10	j5	285	LYS	CA-C-N	9.40	138.90	121.97
10	j5	285	LYS	C-N-CA	9.40	138.90	121.97
9	i5	14	LEU	N-CA-C	9.39	121.60	111.36
11	aA	632	ILE	CA-C-N	-9.39	110.24	123.20
11	aA	632	ILE	C-N-CA	-9.39	110.24	123.20
4	MA	126	THR	N-CA-C	9.39	121.59	111.36
4	M9	126	THR	N-CA-C	9.39	121.59	111.36
10	j5	775	VAL	O-C-N	-9.38	112.39	122.61
11	a9	632	ILE	CA-C-N	-9.38	110.26	123.20
11	a9	632	ILE	C-N-CA	-9.38	110.26	123.20
4	M4	126	THR	N-CA-C	9.37	121.58	111.36
4	M3	126	THR	N-CA-C	9.37	121.57	111.36
11	a9	340	PRO	N-CA-C	-9.37	96.66	110.80
11	aA	340	PRO	N-CA-C	-9.37	96.66	110.80
4	M3	122	SER	CA-C-N	9.36	133.75	120.28
4	M3	122	SER	C-N-CA	9.36	133.75	120.28
4	M1	122	SER	CA-C-N	9.36	133.75	120.28
4	M1	122	SER	C-N-CA	9.36	133.75	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M1	126	THR	N-CA-C	9.35	121.55	111.36
4	M4	122	SER	CA-C-N	9.34	133.73	120.28
4	M4	122	SER	C-N-CA	9.34	133.73	120.28
10	k5	285	LYS	CA-C-N	9.33	138.77	121.97
10	k5	285	LYS	C-N-CA	9.33	138.77	121.97
4	M8	126	THR	N-CA-C	9.33	121.53	111.36
9	w7	7	VAL	N-CA-C	9.26	123.10	108.85
4	M4	101	ASP	N-CA-C	-9.24	101.16	111.14
8	K5	115	MET	O-C-N	9.24	131.58	122.07
9	z7	7	VAL	N-CA-C	9.23	123.07	108.85
4	M3	101	ASP	N-CA-C	-9.23	101.17	111.14
4	M1	101	ASP	N-CA-C	-9.23	101.17	111.14
4	MA	101	ASP	N-CA-C	-9.22	101.18	111.14
11	aA	800	THR	N-CA-C	9.21	124.58	113.16
4	M9	101	ASP	N-CA-C	-9.19	101.22	111.14
11	a9	800	THR	N-CA-C	9.19	124.55	113.16
11	a9	618	PRO	CA-C-N	-9.19	104.00	121.54
11	a9	618	PRO	C-N-CA	-9.19	104.00	121.54
11	aA	618	PRO	CA-C-N	-9.19	104.00	121.54
11	aA	618	PRO	C-N-CA	-9.19	104.00	121.54
8	E5	115	MET	O-C-N	9.18	131.52	122.07
10	k5	945	LEU	N-CA-C	9.18	123.74	109.52
10	j5	369	PRO	CA-C-N	-9.17	107.97	122.65
10	j5	369	PRO	C-N-CA	-9.17	107.97	122.65
10	j5	945	LEU	N-CA-C	9.17	123.73	109.52
10	j5	1071	PRO	CA-N-CD	-9.16	99.17	112.00
10	k5	1071	PRO	CA-N-CD	-9.16	99.17	112.00
10	k5	561	GLU	N-CA-C	-9.16	89.77	108.18
11	aA	278	LEU	N-CA-C	9.15	121.26	111.28
9	i5	58	THR	N-CA-C	9.15	125.68	113.97
10	k5	369	PRO	CA-C-N	-9.13	108.04	122.65
10	k5	369	PRO	C-N-CA	-9.13	108.04	122.65
11	a9	278	LEU	N-CA-C	9.12	121.22	111.28
9	y7	16	ARG	N-CA-C	9.10	130.19	110.80
9	x7	16	ARG	N-CA-C	9.10	130.17	110.80
9	x7	52	LEU	N-CA-C	9.09	121.27	111.36
10	j5	643	VAL	CB-CA-C	-9.08	99.69	112.22
9	z7	56	LEU	N-CA-C	9.08	120.79	111.07
11	a9	37	GLY	N-CA-C	9.08	134.70	113.18
11	a9	332	SER	N-CA-C	-9.08	102.78	114.04
11	aA	37	GLY	N-CA-C	9.08	134.70	113.18
11	aA	332	SER	N-CA-C	-9.08	102.78	114.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	w7	56	LEU	N-CA-C	9.08	120.78	111.07
9	y7	52	LEU	N-CA-C	9.07	121.24	111.36
11	a9	360	ALA	N-CA-C	9.05	121.23	111.36
11	aA	360	ALA	N-CA-C	9.05	121.23	111.36
2	KA	25	GLN	CA-C-N	-9.05	107.25	120.82
2	KA	25	GLN	C-N-CA	-9.05	107.25	120.82
2	K9	25	GLN	CA-C-N	-9.05	107.25	120.82
2	K9	25	GLN	C-N-CA	-9.05	107.25	120.82
3	FA	143	ASN	N-CA-C	9.04	121.13	111.28
10	k5	369	PRO	O-C-N	-9.04	112.98	123.10
10	k5	643	VAL	CB-CA-C	-9.03	99.76	112.22
1	h7	21	GLY	N-CA-C	9.02	123.55	112.73
10	j5	369	PRO	O-C-N	-9.00	113.02	123.10
8	i7	125	ALA	CA-C-N	8.99	132.78	120.46
8	i7	125	ALA	C-N-CA	8.99	132.78	120.46
8	c7	125	ALA	CA-C-N	8.99	132.77	120.46
8	c7	125	ALA	C-N-CA	8.99	132.77	120.46
10	j5	589	ALA	N-CA-C	-8.97	101.25	113.18
11	a9	409	ASP	N-CA-C	8.96	123.52	112.59
10	k5	589	ALA	N-CA-C	-8.96	101.27	113.18
11	aA	409	ASP	N-CA-C	8.96	123.52	112.59
1	b7	21	GLY	N-CA-C	8.94	123.46	112.73
3	Q8	108	ARG	CB-CA-C	8.93	128.18	110.42
10	j5	883	SER	N-CA-C	8.90	129.75	110.80
11	aA	292	ALA	N-CA-C	-8.89	102.35	113.55
10	k5	883	SER	N-CA-C	8.88	129.72	110.80
10	k5	1056	PRO	CA-N-CD	-8.88	99.56	112.00
10	j5	1056	PRO	CA-N-CD	-8.87	99.58	112.00
10	k5	269	LEU	N-CA-C	8.87	129.69	110.80
10	j5	269	LEU	N-CA-C	8.86	129.67	110.80
9	y7	63	ALA	N-CA-C	8.85	129.65	110.80
10	k5	597	GLU	N-CA-C	8.84	122.07	111.82
10	k5	149	GLY	CA-C-N	-8.83	108.80	119.84
10	k5	149	GLY	C-N-CA	-8.83	108.80	119.84
10	k5	1109	ASP	N-CA-C	8.83	123.75	111.56
9	w7	16	ARG	N-CA-C	8.83	131.57	113.20
9	x7	63	ALA	N-CA-C	8.82	129.59	110.80
11	a9	563	PHE	CA-C-N	8.81	128.67	120.21
11	a9	563	PHE	C-N-CA	8.81	128.67	120.21
11	aA	563	PHE	CA-C-N	8.81	128.67	120.21
11	aA	563	PHE	C-N-CA	8.81	128.67	120.21
10	j5	1109	ASP	N-CA-C	8.81	123.72	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	z7	16	ARG	N-CA-C	8.81	131.52	113.20
10	k5	619	GLU	N-CA-CB	-8.80	96.79	110.43
5	Z4	23	SER	O-C-N	8.79	129.34	120.99
10	j5	149	GLY	CA-C-N	-8.79	108.85	119.84
10	j5	149	GLY	C-N-CA	-8.79	108.85	119.84
10	j5	597	GLU	N-CA-C	8.79	122.02	111.82
10	j5	484	GLY	CA-C-O	-8.79	111.06	120.90
10	k5	484	GLY	CA-C-O	-8.77	111.07	120.90
11	a9	632	ILE	CB-CA-C	-8.77	97.86	111.71
11	aA	632	ILE	CB-CA-C	-8.77	97.86	111.71
4	MA	123	GLU	N-CA-C	8.76	120.83	111.28
10	j5	619	GLU	N-CA-CB	-8.76	96.85	110.43
4	M3	52	LEU	N-CA-C	8.75	120.82	111.28
8	i7	128	GLU	CB-CA-C	-8.75	97.14	110.88
4	M8	52	LEU	N-CA-C	8.75	120.82	111.28
4	M1	52	LEU	N-CA-C	8.75	120.82	111.28
10	j5	615	LYS	N-CA-C	8.75	120.82	111.28
11	a9	55	ASP	N-CA-C	8.75	120.59	111.14
10	k5	615	LYS	N-CA-C	8.75	120.81	111.28
11	aA	55	ASP	N-CA-C	8.74	120.58	111.14
4	MA	43	TYR	N-CA-CB	-8.74	96.13	111.08
4	M9	43	TYR	N-CA-CB	-8.74	96.13	111.08
4	M8	123	GLU	N-CA-C	8.74	120.81	111.28
4	MA	52	LEU	N-CA-C	8.74	120.80	111.28
4	M4	52	LEU	N-CA-C	8.74	120.80	111.28
4	M9	123	GLU	N-CA-C	8.74	120.80	111.28
8	c7	128	GLU	CB-CA-C	-8.74	97.17	110.88
4	M9	52	LEU	N-CA-C	8.74	120.80	111.28
4	M4	43	TYR	N-CA-CB	-8.73	96.15	111.08
4	M8	43	TYR	N-CA-CB	-8.73	96.15	111.08
4	M3	43	TYR	N-CA-CB	-8.72	96.17	111.08
4	M1	43	TYR	N-CA-CB	-8.72	96.17	111.08
10	k5	1077	ILE	CA-C-N	-8.70	97.53	122.15
10	k5	1077	ILE	C-N-CA	-8.70	97.53	122.15
5	N3	64	GLY	N-CA-C	8.70	125.04	114.69
5	N1	64	GLY	N-CA-C	8.70	125.04	114.69
5	Z4	64	GLY	N-CA-C	8.69	125.04	114.69
10	j5	1077	ILE	CA-C-N	-8.69	97.55	122.15
10	j5	1077	ILE	C-N-CA	-8.69	97.55	122.15
10	k5	1118	THR	CB-CA-C	-8.68	96.09	110.85
8	e5	24	ASP	N-CA-C	-8.68	103.28	114.04
10	j5	1118	THR	CB-CA-C	-8.67	96.11	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	NA	64	GLY	N-CA-C	8.66	125.00	114.69
5	N9	64	GLY	N-CA-C	8.66	125.00	114.69
10	j5	984	ILE	N-CA-C	8.65	127.34	109.34
4	M4	143	VAL	N-CA-C	-8.64	101.80	110.62
10	k5	984	ILE	N-CA-C	8.64	127.31	109.34
10	j5	1107	ASN	N-CA-CB	-8.63	95.90	110.49
8	U7	22	GLU	N-CA-C	-8.62	101.36	112.23
5	Z8	64	GLY	N-CA-C	8.62	124.94	114.69
10	j5	725	LEU	CB-CG-CD2	-8.60	84.89	110.70
8	i7	124	PRO	O-C-N	-8.60	110.60	122.30
10	j5	880	THR	N-CA-CB	8.60	125.03	110.49
8	c7	126	VAL	CB-CA-C	-8.60	100.53	112.14
10	k5	725	LEU	CB-CG-CD2	-8.59	84.93	110.70
8	c7	124	PRO	O-C-N	-8.59	110.62	122.30
8	i7	126	VAL	CB-CA-C	-8.57	100.57	112.14
10	k5	880	THR	N-CA-CB	8.57	124.97	110.49
4	MA	154	GLU	N-CA-C	8.56	120.70	111.36
4	M9	154	GLU	N-CA-C	8.56	120.70	111.36
4	M3	154	GLU	N-CA-C	8.56	120.69	111.36
4	M8	154	GLU	N-CA-C	8.54	120.66	111.36
11	a9	344	ALA	N-CA-C	-8.54	96.95	109.50
11	aA	344	ALA	N-CA-C	-8.54	96.95	109.50
4	M1	154	GLU	N-CA-C	8.53	120.66	111.36
4	MA	3	VAL	CA-C-N	8.53	136.50	120.97
4	MA	3	VAL	C-N-CA	8.53	136.50	120.97
4	M3	3	VAL	CA-C-N	8.53	136.49	120.97
4	M3	3	VAL	C-N-CA	8.53	136.49	120.97
4	M9	3	VAL	CA-C-N	8.53	136.50	120.97
4	M9	3	VAL	C-N-CA	8.53	136.50	120.97
4	M1	3	VAL	CA-C-N	8.53	136.49	120.97
4	M1	3	VAL	C-N-CA	8.53	136.49	120.97
10	j5	511	ARG	CG-CD-NE	-8.53	93.24	112.00
4	M4	154	GLU	N-CA-C	8.53	120.65	111.36
10	k5	56	ILE	CB-CA-C	-8.52	100.64	112.14
10	k5	520	ARG	N-CA-C	-8.52	103.03	113.50
11	a9	292	ALA	N-CA-C	-8.52	103.42	113.21
4	M4	3	VAL	CA-C-N	8.51	136.46	120.97
4	M4	3	VAL	C-N-CA	8.51	136.46	120.97
10	k5	511	ARG	CG-CD-NE	-8.51	93.28	112.00
10	k5	777	ASP	N-CA-CB	-8.50	97.42	111.53
10	j5	56	ILE	CB-CA-C	-8.49	100.67	112.14
10	k5	261	ILE	O-C-N	-8.48	111.74	122.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M8	3	VAL	CA-C-N	8.48	136.41	120.97
4	M8	3	VAL	C-N-CA	8.48	136.41	120.97
10	j5	777	ASP	N-CA-CB	-8.48	97.45	111.53
10	k5	417	GLU	N-CA-C	8.48	128.86	110.80
10	j5	261	ILE	O-C-N	-8.48	111.74	122.17
10	j5	417	GLU	N-CA-C	8.48	128.85	110.80
8	c7	32	SER	CA-C-N	8.46	138.00	121.41
8	c7	32	SER	C-N-CA	8.46	138.00	121.41
8	O7	20	PRO	N-CA-CB	-8.46	94.37	103.25
8	c7	7	ALA	N-CA-C	8.45	120.57	111.36
11	a9	50	LEU	CA-C-N	8.45	132.45	120.28
11	a9	50	LEU	C-N-CA	8.45	132.45	120.28
11	aA	50	LEU	CA-C-N	8.45	132.45	120.28
11	aA	50	LEU	C-N-CA	8.45	132.45	120.28
10	j5	520	ARG	N-CA-C	-8.45	103.11	113.50
10	j5	842	LYS	CB-CA-C	-8.44	97.56	110.90
8	K5	7	ALA	N-CA-C	8.43	120.55	111.36
10	k5	842	LYS	CB-CA-C	-8.43	97.58	110.90
8	i7	7	ALA	N-CA-C	8.43	120.54	111.36
10	j5	1152	TYR	N-CA-C	8.42	123.71	110.32
8	i7	32	SER	CA-C-N	8.42	137.92	121.41
8	i7	32	SER	C-N-CA	8.42	137.92	121.41
8	o7	32	SER	CA-C-N	8.42	137.91	121.41
8	o7	32	SER	C-N-CA	8.42	137.91	121.41
4	M4	68	ASP	N-CA-C	8.41	122.19	108.99
4	M3	68	ASP	N-CA-C	8.40	122.18	108.99
8	E7	32	SER	CA-C-N	8.40	137.87	121.41
8	E7	32	SER	C-N-CA	8.40	137.87	121.41
4	M9	68	ASP	N-CA-C	8.40	122.17	108.99
8	E5	32	SER	CA-C-N	8.39	137.86	121.41
8	E5	32	SER	C-N-CA	8.39	137.86	121.41
8	E5	7	ALA	N-CA-C	8.39	120.51	111.36
8	W5	7	ALA	N-CA-C	8.39	120.50	111.36
10	k5	663	ALA	N-CA-C	-8.39	99.96	112.04
4	MA	68	ASP	N-CA-C	8.39	122.16	108.99
8	Q5	7	ALA	N-CA-C	8.39	120.50	111.36
10	j5	663	ALA	N-CA-C	-8.39	99.96	112.04
4	M1	68	ASP	N-CA-C	8.39	122.16	108.99
8	u7	32	SER	CA-C-N	8.38	137.84	121.41
8	u7	32	SER	C-N-CA	8.38	137.84	121.41
8	K5	32	SER	CA-C-N	8.38	137.84	121.41
8	K5	32	SER	C-N-CA	8.38	137.84	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	K7	32	SER	CA-C-N	8.38	137.84	121.41
8	K7	32	SER	C-N-CA	8.38	137.84	121.41
11	a9	288	ARG	O-C-N	8.38	133.73	122.59
11	aA	288	ARG	O-C-N	8.38	133.73	122.59
4	M8	68	ASP	N-CA-C	8.38	122.14	108.99
10	j5	428	VAL	CB-CA-C	-8.37	100.84	112.14
8	Q5	32	SER	CA-C-N	8.37	137.81	121.41
8	Q5	32	SER	C-N-CA	8.37	137.81	121.41
8	W7	32	SER	CA-C-N	8.37	137.81	121.41
8	W7	32	SER	C-N-CA	8.37	137.81	121.41
10	k5	428	VAL	CB-CA-C	-8.36	100.85	112.14
8	Q7	32	SER	CA-C-N	8.36	137.79	121.41
8	W5	32	SER	CA-C-N	8.36	137.79	121.41
8	W5	32	SER	C-N-CA	8.36	137.79	121.41
10	j5	1005	LEU	N-CA-C	-8.36	95.61	109.07
8	Q7	32	SER	C-N-CA	8.36	137.79	121.41
8	W7	7	ALA	N-CA-C	8.36	120.47	111.36
8	K7	7	ALA	N-CA-C	8.35	120.46	111.36
9	w7	38	PHE	CB-CA-C	-8.35	96.92	110.79
10	k5	1005	LEU	N-CA-C	-8.34	95.64	109.07
9	z7	38	PHE	CB-CA-C	-8.34	96.95	110.79
8	Q7	7	ALA	N-CA-C	8.33	120.44	111.36
8	E7	7	ALA	N-CA-C	8.31	120.42	111.36
10	k5	696	ARG	N-CA-C	-8.31	97.99	110.28
8	c7	32	SER	O-C-N	-8.31	111.73	122.37
10	k5	487	PHE	N-CA-C	8.30	128.48	110.80
8	i7	32	SER	O-C-N	-8.29	111.75	122.37
10	j5	487	PHE	N-CA-C	8.29	128.46	110.80
10	j5	696	ARG	N-CA-C	-8.29	98.01	110.28
8	E7	32	SER	O-C-N	-8.27	111.78	122.37
8	Q7	32	SER	O-C-N	-8.25	111.81	122.37
8	c7	144	ASP	N-CA-C	8.25	120.35	111.36
4	M8	68	ASP	CB-CA-C	-8.24	92.39	109.94
4	M4	68	ASP	CB-CA-C	-8.24	92.39	109.94
4	M3	68	ASP	CB-CA-C	-8.24	92.39	109.94
4	M1	68	ASP	CB-CA-C	-8.24	92.40	109.94
10	k5	619	GLU	N-CA-C	8.23	124.85	113.16
4	MA	68	ASP	CB-CA-C	-8.23	92.41	109.94
4	M9	68	ASP	CB-CA-C	-8.23	92.41	109.94
11	a9	81	ASP	N-CA-C	-8.23	87.96	111.00
11	aA	81	ASP	N-CA-C	-8.23	87.96	111.00
10	k5	141	GLU	CA-C-N	-8.22	111.51	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	k5	141	GLU	C-N-CA	-8.22	111.51	119.90
8	i7	144	ASP	N-CA-C	8.22	120.33	111.36
4	M8	142	PHE	CA-C-N	-8.22	108.74	120.42
4	M8	142	PHE	C-N-CA	-8.22	108.74	120.42
5	Z8	38	GLU	CA-C-N	8.22	128.32	119.28
5	Z8	38	GLU	C-N-CA	8.22	128.32	119.28
10	k5	1152	TYR	N-CA-C	8.21	123.76	109.96
8	u7	32	SER	O-C-N	-8.21	111.86	122.37
10	j5	141	GLU	CA-C-N	-8.21	111.53	119.90
10	j5	141	GLU	C-N-CA	-8.21	111.53	119.90
10	j5	619	GLU	N-CA-C	8.21	124.81	113.16
8	K7	32	SER	O-C-N	-8.21	111.86	122.37
11	a9	59	ARG	CA-C-N	8.21	129.26	119.99
11	a9	59	ARG	C-N-CA	8.21	129.26	119.99
11	aA	59	ARG	CA-C-N	8.21	129.26	119.99
11	aA	59	ARG	C-N-CA	8.21	129.26	119.99
8	E5	32	SER	O-C-N	-8.19	111.89	122.37
8	W5	32	SER	O-C-N	-8.19	111.89	122.37
10	j5	732	ARG	N-CA-C	-8.18	93.59	107.99
1	D7	67	ARG	CB-CA-C	-8.18	99.25	109.31
8	K5	32	SER	O-C-N	-8.18	111.90	122.37
8	W7	32	SER	O-C-N	-8.16	111.92	122.37
8	o7	32	SER	O-C-N	-8.16	111.92	122.37
8	Q5	32	SER	O-C-N	-8.16	111.93	122.37
11	aA	812	ASP	CA-C-N	8.16	127.74	118.85
11	aA	812	ASP	C-N-CA	8.16	127.74	118.85
11	a9	812	ASP	CA-C-N	8.15	127.73	118.85
11	a9	812	ASP	C-N-CA	8.15	127.73	118.85
11	a9	585	GLU	CB-CA-C	-8.15	97.26	110.79
11	a9	638	ALA	N-CA-CB	-8.14	98.10	110.07
11	aA	638	ALA	N-CA-CB	-8.14	98.10	110.07
10	j5	84	TYR	N-CA-C	8.14	120.15	111.28
5	N3	38	GLU	CA-C-N	8.13	128.23	119.28
5	N3	38	GLU	C-N-CA	8.13	128.23	119.28
10	k5	84	TYR	N-CA-C	8.13	120.14	111.28
1	J7	67	ARG	CB-CA-C	-8.13	99.31	109.31
11	aA	585	GLU	CB-CA-C	-8.13	97.30	110.79
4	M3	85	VAL	N-CA-C	8.12	119.89	112.17
4	M1	85	VAL	N-CA-C	8.12	119.89	112.17
8	E5	113	LYS	CA-C-N	8.12	137.25	122.79
8	E5	113	LYS	C-N-CA	8.12	137.25	122.79
5	NA	38	GLU	CA-C-N	8.11	128.20	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	NA	38	GLU	C-N-CA	8.11	128.20	119.28
5	N9	38	GLU	CA-C-N	8.11	128.20	119.28
5	N9	38	GLU	C-N-CA	8.11	128.20	119.28
5	N1	38	GLU	CA-C-N	8.11	128.20	119.28
5	N1	38	GLU	C-N-CA	8.11	128.20	119.28
8	K5	113	LYS	CA-C-N	8.11	137.22	122.79
8	K5	113	LYS	C-N-CA	8.11	137.22	122.79
10	j5	289	SER	N-CA-C	8.10	122.59	112.87
10	k5	864	GLY	CA-C-O	-8.10	112.07	120.66
9	x7	21	ARG	N-CA-C	8.10	128.06	110.80
4	M8	8	SER	N-CA-C	8.10	122.07	109.52
9	y7	21	ARG	N-CA-C	8.10	128.04	110.80
4	M4	8	SER	N-CA-C	8.09	122.05	109.52
10	k5	20	VAL	N-CA-C	8.09	126.16	109.34
4	M8	85	VAL	N-CA-C	8.09	119.85	112.17
11	a9	57	PHE	O-C-N	-8.09	113.44	122.34
11	aA	57	PHE	O-C-N	-8.09	113.44	122.34
10	j5	761	ARG	N-CA-C	8.08	120.09	111.28
4	M3	8	SER	N-CA-C	8.08	122.05	109.52
4	M1	8	SER	N-CA-C	8.08	122.05	109.52
8	Q5	160	MET	N-CA-C	-8.07	93.61	110.80
10	k5	289	SER	N-CA-C	8.07	122.56	112.87
10	j5	1119	LEU	CA-C-N	-8.07	111.91	119.82
10	j5	1119	LEU	C-N-CA	-8.07	111.91	119.82
4	MA	8	SER	N-CA-C	8.07	122.02	109.52
8	K5	104	ILE	CB-CA-C	-8.06	101.65	111.97
10	j5	20	VAL	N-CA-C	8.06	126.11	109.34
10	j5	842	LYS	CB-CG-CD	-8.06	92.76	111.30
10	j5	864	GLY	CA-C-O	-8.06	112.12	120.66
10	k5	845	ALA	N-CA-C	-8.05	103.36	113.02
4	MA	85	VAL	N-CA-C	8.05	119.82	112.17
8	W5	160	MET	N-CA-C	-8.05	93.66	110.80
10	k5	761	ARG	N-CA-C	8.05	120.05	111.28
4	M9	8	SER	N-CA-C	8.05	122.00	109.52
10	j5	1096	ILE	N-CA-C	8.04	118.84	110.72
10	k5	842	LYS	CB-CG-CD	-8.04	92.80	111.30
10	j5	494	PRO	N-CA-C	8.04	124.37	111.26
4	M4	85	VAL	N-CA-C	8.04	119.81	112.17
8	E5	104	ILE	CB-CA-C	-8.04	101.68	111.97
3	FA	144	SER	CA-C-N	8.03	129.88	119.84
3	FA	144	SER	C-N-CA	8.03	129.88	119.84
5	Z4	39	PRO	N-CD-CG	-8.03	91.15	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M9	85	VAL	N-CA-C	8.03	119.80	112.17
10	k5	1119	LEU	CA-C-N	-8.03	111.95	119.82
10	k5	1119	LEU	C-N-CA	-8.03	111.95	119.82
10	j5	845	ALA	N-CA-C	-8.02	103.40	113.02
9	w7	19	THR	N-CA-C	8.02	125.64	113.61
10	k5	494	PRO	N-CA-C	8.01	124.32	111.26
11	a9	107	ARG	CA-C-N	8.00	128.48	119.92
11	a9	107	ARG	C-N-CA	8.00	128.48	119.92
9	z7	19	THR	N-CA-C	8.00	125.60	113.61
10	k5	1096	ILE	N-CA-C	7.99	118.79	110.72
11	aA	107	ARG	CA-C-N	7.98	128.45	119.92
11	aA	107	ARG	C-N-CA	7.98	128.45	119.92
11	a9	98	ILE	CA-C-N	-7.97	102.36	121.80
11	a9	98	ILE	C-N-CA	-7.97	102.36	121.80
3	Q4	86	MET	N-CA-C	-7.96	102.55	111.14
11	aA	98	ILE	CA-C-N	-7.96	102.39	121.80
11	aA	98	ILE	C-N-CA	-7.96	102.39	121.80
3	L1	77	ARG	CB-CA-C	-7.94	96.11	109.53
4	M3	123	GLU	N-CA-C	7.94	120.84	111.71
4	M1	123	GLU	N-CA-C	7.94	120.84	111.71
8	I7	22	GLU	N-CA-C	-7.94	103.75	113.19
4	M4	123	GLU	N-CA-C	7.92	120.82	111.71
3	Q4	84	ARG	CB-CA-C	-7.91	98.46	110.88
4	MA	108	ALA	N-CA-C	7.91	119.98	111.36
4	M9	108	ALA	N-CA-C	7.91	119.98	111.36
4	M8	211	GLN	N-CA-C	-7.91	93.96	110.80
4	M8	108	ALA	N-CA-C	7.90	119.97	111.36
10	j5	635	LEU	N-CA-C	-7.89	95.39	108.34
4	M4	108	ALA	N-CA-C	7.89	119.96	111.36
10	k5	635	LEU	N-CA-C	-7.89	95.40	108.34
4	M3	108	ALA	N-CA-C	7.88	119.95	111.36
4	M1	108	ALA	N-CA-C	7.88	119.95	111.36
10	j5	729	ILE	N-CA-CB	7.86	124.19	111.23
4	MA	259	ARG	N-CA-C	7.83	127.48	110.80
4	M8	259	ARG	N-CA-C	7.83	127.49	110.80
4	M9	259	ARG	N-CA-C	7.83	127.48	110.80
4	M3	259	ARG	N-CA-C	7.83	127.47	110.80
4	M1	259	ARG	N-CA-C	7.83	127.47	110.80
10	k5	729	ILE	N-CA-CB	7.82	124.13	111.23
11	aA	633	THR	N-CA-C	-7.81	97.52	108.54
4	M4	259	ARG	N-CA-C	7.81	127.44	110.80
11	a9	621	THR	CA-C-N	7.81	136.45	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	a9	621	THR	C-N-CA	7.81	136.45	121.54
11	aA	621	THR	CA-C-N	7.81	136.45	121.54
11	aA	621	THR	C-N-CA	7.81	136.45	121.54
10	k5	677	ASP	CB-CA-C	-7.80	94.89	110.42
10	k5	16	LEU	N-CA-C	7.80	119.86	111.36
10	j5	16	LEU	N-CA-C	7.79	119.86	111.36
10	j5	677	ASP	CB-CA-C	-7.79	94.91	110.42
10	j5	1120	PRO	N-CA-C	7.79	124.03	113.98
10	j5	326	GLY	N-CA-C	7.79	125.72	115.36
11	a9	633	THR	N-CA-C	-7.79	97.56	108.54
10	k5	1120	PRO	N-CA-C	7.78	124.02	113.98
10	j5	939	GLN	CB-CA-C	-7.78	98.67	110.88
10	k5	939	GLN	CB-CA-C	-7.78	98.67	110.88
10	k5	743	VAL	O-C-N	-7.75	115.46	120.42
8	o7	48	GLU	CA-C-N	-7.75	109.39	122.11
8	o7	48	GLU	C-N-CA	-7.75	109.39	122.11
10	k5	141	GLU	N-CA-C	7.75	126.94	109.81
10	k5	326	GLY	N-CA-C	7.75	125.67	115.36
10	j5	141	GLU	N-CA-C	7.75	126.93	109.81
10	j5	743	VAL	O-C-N	-7.74	115.46	120.42
8	u7	48	GLU	CA-C-N	-7.74	109.42	122.11
8	u7	48	GLU	C-N-CA	-7.74	109.42	122.11
9	w7	35	GLU	N-CA-C	7.73	120.60	111.71
11	a9	602	PRO	N-CA-C	7.73	123.39	111.11
11	aA	602	PRO	N-CA-C	7.73	123.39	111.11
5	Z4	23	SER	C-N-CD	-7.71	93.37	125.00
9	z7	35	GLU	N-CA-C	7.71	120.58	111.71
11	aA	380	ARG	CA-C-N	7.71	127.64	119.85
11	aA	380	ARG	C-N-CA	7.71	127.64	119.85
11	a9	806	GLY	N-CA-C	7.71	131.44	113.18
11	aA	806	GLY	N-CA-C	7.71	131.44	113.18
10	j5	651	ILE	CG1-CB-CG2	-7.70	87.61	110.70
10	k5	651	ILE	CG1-CB-CG2	-7.70	87.61	110.70
3	F9	143	ASN	N-CA-C	7.70	119.67	111.28
10	k5	705	THR	N-CA-CB	7.69	124.05	110.37
9	z7	36	ASN	CA-C-N	-7.68	106.86	121.54
9	z7	36	ASN	C-N-CA	-7.68	106.86	121.54
3	L2	77	ARG	CA-C-N	-7.68	109.39	120.29
3	L2	77	ARG	C-N-CA	-7.68	109.39	120.29
5	NA	27	ALA	N-CA-C	7.68	122.10	111.74
5	N9	27	ALA	N-CA-C	7.68	122.10	111.74
10	j5	972	GLY	CA-C-N	7.67	136.19	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	j5	972	GLY	C-N-CA	7.67	136.19	121.54
9	w7	36	ASN	CA-C-N	-7.67	106.89	121.54
9	w7	36	ASN	C-N-CA	-7.67	106.89	121.54
11	a9	380	ARG	CA-C-N	7.67	127.60	119.85
11	a9	380	ARG	C-N-CA	7.67	127.60	119.85
10	k5	972	GLY	CA-C-N	7.66	136.18	121.54
10	k5	972	GLY	C-N-CA	7.66	136.18	121.54
5	Z8	27	ALA	N-CA-C	7.66	122.08	111.74
5	N3	27	ALA	N-CA-C	7.65	122.07	111.74
10	k5	427	GLY	CA-C-N	7.65	130.94	120.46
10	k5	427	GLY	C-N-CA	7.65	130.94	120.46
5	N1	27	ALA	N-CA-C	7.65	122.07	111.74
10	k5	277	ILE	N-CA-C	7.65	125.25	109.34
10	j5	277	ILE	N-CA-C	7.65	125.24	109.34
10	j5	427	GLY	CA-C-N	7.65	130.94	120.46
10	j5	427	GLY	C-N-CA	7.65	130.94	120.46
10	k5	1130	VAL	N-CA-C	7.64	118.44	110.72
10	j5	561	GLU	N-CA-C	-7.64	94.53	110.80
10	j5	856	ARG	N-CA-C	7.63	119.68	111.36
10	j5	705	THR	N-CA-CB	7.63	123.96	110.37
8	i7	126	VAL	N-CA-C	7.63	118.40	110.62
10	k5	732	ARG	N-CA-C	-7.62	93.58	107.75
10	j5	1130	VAL	N-CA-C	7.61	118.41	110.72
10	k5	1006	ASP	CA-C-O	-7.61	112.76	120.90
4	MA	59	ILE	CB-CA-C	-7.61	101.87	112.14
10	k5	856	ARG	N-CA-C	7.61	119.65	111.36
4	M9	59	ILE	CB-CA-C	-7.61	101.87	112.14
11	a9	521	PHE	N-CA-C	7.60	119.20	111.07
11	aA	521	PHE	N-CA-C	7.60	119.20	111.07
4	M8	59	ILE	CB-CA-C	-7.60	101.88	112.14
4	M8	78	GLY	N-CA-C	7.60	127.84	112.34
4	M4	59	ILE	CB-CA-C	-7.59	101.89	112.14
4	M3	78	GLY	N-CA-C	7.59	127.83	112.34
4	M1	78	GLY	N-CA-C	7.59	127.83	112.34
10	j5	1006	ASP	CA-C-O	-7.59	112.78	120.90
11	a9	351	THR	CB-CA-C	-7.59	97.51	109.42
11	aA	351	THR	CB-CA-C	-7.59	97.51	109.42
4	M4	78	GLY	N-CA-C	7.58	127.81	112.34
4	MA	78	GLY	N-CA-C	7.58	127.81	112.34
4	M9	78	GLY	N-CA-C	7.58	127.81	112.34
4	M3	59	ILE	CB-CA-C	-7.58	101.91	112.14
4	M1	59	ILE	CB-CA-C	-7.58	101.91	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	aA	531	ASP	N-CA-C	7.56	120.40	111.71
4	M4	23	PRO	N-CA-C	-7.56	96.90	112.47
4	M8	23	PRO	N-CA-C	-7.55	96.91	112.47
11	a9	613	TYR	N-CA-C	-7.55	97.90	108.54
11	aA	613	TYR	N-CA-C	-7.55	97.90	108.54
8	c7	126	VAL	N-CA-C	7.55	118.32	110.62
8	C7	22	GLU	N-CA-C	-7.54	104.22	113.19
11	a9	531	ASP	N-CA-C	7.53	120.37	111.71
4	MA	23	PRO	N-CA-C	-7.53	96.96	112.47
4	M9	23	PRO	N-CA-C	-7.53	96.96	112.47
4	M3	23	PRO	N-CA-C	-7.52	96.97	112.47
9	x7	26	THR	N-CA-C	7.52	122.59	113.41
4	M1	23	PRO	N-CA-C	-7.52	96.97	112.47
9	z7	31	LEU	O-C-N	-7.51	113.73	122.89
9	y7	26	THR	N-CA-C	7.51	122.57	113.41
10	j5	409	GLU	CB-CA-C	-7.50	99.11	110.88
10	j5	393	MET	CB-CG-SD	-7.50	90.21	112.70
10	k5	393	MET	CB-CG-SD	-7.49	90.22	112.70
4	MA	47	VAL	N-CA-C	7.49	116.52	107.61
4	M9	47	VAL	N-CA-C	7.49	116.52	107.61
4	M4	49	LEU	N-CA-C	7.48	120.38	111.33
11	aA	823	ILE	N-CA-C	-7.48	95.71	106.55
9	w7	31	LEU	O-C-N	-7.47	113.78	122.89
10	k5	409	GLU	CB-CA-C	-7.47	99.15	110.88
4	M3	47	VAL	N-CA-C	7.46	116.49	107.61
4	M1	17	VAL	CA-C-N	-7.46	110.65	122.73
4	M1	17	VAL	C-N-CA	-7.46	110.65	122.73
4	M1	47	VAL	N-CA-C	7.46	116.49	107.61
4	M3	49	LEU	N-CA-C	7.45	120.35	111.33
4	M1	49	LEU	N-CA-C	7.45	120.35	111.33
10	j5	623	VAL	N-CA-C	7.45	121.45	111.17
4	M4	47	VAL	N-CA-C	7.45	116.47	107.61
8	a7	21	GLY	N-CA-C	7.44	122.30	112.77
3	H2	84	ARG	CA-C-N	-7.44	107.33	121.54
3	H2	84	ARG	C-N-CA	-7.44	107.33	121.54
3	H6	84	ARG	CA-C-N	-7.44	107.33	121.54
3	H6	84	ARG	C-N-CA	-7.44	107.33	121.54
4	MA	17	VAL	CA-C-N	-7.44	110.68	122.73
4	MA	17	VAL	C-N-CA	-7.44	110.68	122.73
4	M9	17	VAL	CA-C-N	-7.44	110.68	122.73
4	M9	17	VAL	C-N-CA	-7.44	110.68	122.73
4	M3	17	VAL	CA-C-N	-7.43	110.69	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M3	17	VAL	C-N-CA	-7.43	110.69	122.73
4	M8	49	LEU	N-CA-C	7.43	120.32	111.33
10	j5	847	LEU	CB-CA-C	-7.43	98.92	110.81
10	j5	941	THR	N-CA-C	7.43	119.38	111.28
11	a9	283	GLN	N-CA-C	7.43	126.22	109.81
10	j5	882	PRO	N-CA-C	7.42	125.81	113.78
4	MA	49	LEU	N-CA-C	7.42	120.31	111.33
4	M4	17	VAL	CA-C-N	-7.42	110.72	122.73
4	M4	17	VAL	C-N-CA	-7.42	110.72	122.73
9	z5	46	LYS	N-CA-C	7.41	121.91	113.01
4	M8	47	VAL	N-CA-C	7.41	116.43	107.61
11	aA	283	GLN	N-CA-C	7.41	126.20	109.81
10	k5	623	VAL	N-CA-C	7.41	121.40	111.17
10	k5	882	PRO	N-CA-C	7.41	125.78	113.78
10	j5	52	ARG	CB-CA-C	-7.41	99.25	110.88
10	k5	941	THR	N-CA-C	7.41	119.35	111.28
10	k5	847	LEU	CB-CA-C	-7.40	98.97	110.81
4	M9	49	LEU	N-CA-C	7.40	120.29	111.33
8	g7	21	GLY	N-CA-C	7.40	122.24	112.77
9	i5	46	LYS	N-CA-C	7.40	121.89	113.01
10	j5	650	ASP	CB-CA-C	7.40	123.33	110.01
2	KA	22	THR	CB-CA-C	-7.39	98.52	110.79
2	K9	22	THR	CB-CA-C	-7.39	98.52	110.79
10	k5	52	ARG	CB-CA-C	-7.38	99.28	110.88
4	M8	17	VAL	CA-C-N	-7.38	110.77	122.73
4	M8	17	VAL	C-N-CA	-7.38	110.77	122.73
11	a9	603	THR	N-CA-C	-7.37	95.11	110.80
11	aA	603	THR	N-CA-C	-7.37	95.11	110.80
10	k5	650	ASP	CB-CA-C	7.36	123.26	110.01
10	j5	885	GLN	CA-C-O	-7.35	112.42	120.43
10	k5	557	VAL	N-CA-C	7.35	120.28	111.09
4	MA	35	THR	N-CA-CB	-7.34	97.87	111.53
4	M9	35	THR	N-CA-CB	-7.34	97.87	111.53
10	k5	874	ARG	CB-CA-C	-7.33	99.32	110.90
10	k5	414	ILE	CB-CA-C	-7.33	102.11	112.22
4	M3	35	THR	N-CA-CB	-7.32	97.91	111.53
10	k5	329	SER	N-CA-C	7.32	119.78	110.33
4	M1	35	THR	N-CA-CB	-7.32	97.91	111.53
9	x7	22	GLU	N-CA-C	7.32	121.94	113.38
4	M8	77	LEU	N-CA-C	-7.32	98.84	109.59
10	k5	885	GLN	CA-C-O	-7.31	112.46	120.43
4	M4	35	THR	N-CA-CB	-7.31	97.94	111.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	y7	22	GLU	N-CA-C	7.30	121.92	113.38
8	C5	15	ALA	CA-C-N	-7.30	107.59	121.54
8	C5	15	ALA	C-N-CA	-7.30	107.59	121.54
10	j5	414	ILE	CB-CA-C	-7.30	102.15	112.22
4	M8	35	THR	N-CA-CB	-7.30	97.96	111.53
10	j5	874	ARG	CB-CA-C	-7.29	99.38	110.90
10	j5	329	SER	N-CA-C	7.29	119.74	110.33
4	MA	95	ALA	N-CA-C	7.29	118.87	111.07
10	k5	640	TYR	CB-CA-C	-7.29	96.02	109.29
1	D7	67	ARG	CA-C-N	7.29	128.95	119.84
1	D7	67	ARG	C-N-CA	7.29	128.95	119.84
4	M9	95	ALA	N-CA-C	7.29	118.87	111.07
11	a9	312	ASP	CA-C-N	7.29	131.02	120.38
11	a9	312	ASP	C-N-CA	7.29	131.02	120.38
11	aA	312	ASP	CA-C-N	7.29	131.02	120.38
11	aA	312	ASP	C-N-CA	7.29	131.02	120.38
10	j5	403	ASP	CB-CA-C	-7.29	98.69	110.79
4	MA	77	LEU	N-CA-C	-7.28	98.88	109.59
4	M3	77	LEU	N-CA-C	-7.28	98.89	109.59
4	M4	77	LEU	N-CA-C	-7.28	98.89	109.59
4	M1	77	LEU	N-CA-C	-7.28	98.89	109.59
8	I5	15	ALA	CA-C-N	-7.28	107.64	121.54
8	I5	15	ALA	C-N-CA	-7.28	107.64	121.54
10	k5	403	ASP	CB-CA-C	-7.28	98.70	110.79
4	M1	95	ALA	N-CA-C	7.28	118.86	111.07
10	j5	640	TYR	CB-CA-C	-7.28	96.04	109.29
8	o7	36	ARG	CB-CA-C	-7.28	98.48	110.85
4	M3	95	ALA	N-CA-C	7.27	118.85	111.07
4	M9	77	LEU	N-CA-C	-7.26	98.92	109.59
9	i5	65	THR	CB-CA-C	-7.26	96.60	110.24
8	u7	36	ARG	CB-CA-C	-7.25	98.52	110.85
11	a9	498	VAL	N-CA-C	7.25	119.27	111.58
11	aA	498	VAL	N-CA-C	7.25	119.27	111.58
9	z5	65	THR	CB-CA-C	-7.25	96.61	110.24
10	j5	775	VAL	CB-CA-C	-7.24	100.25	111.26
8	M5	65	VAL	N-CA-C	-7.24	103.24	110.62
1	J7	67	ARG	CA-C-N	7.24	128.89	119.84
1	J7	67	ARG	C-N-CA	7.24	128.89	119.84
10	j5	34	TYR	N-CA-CB	7.22	123.22	110.37
10	k5	34	TYR	N-CA-CB	7.21	123.21	110.37
5	N3	25	THR	N-CA-C	-7.21	103.36	111.14
10	k5	775	VAL	CB-CA-C	-7.21	100.30	111.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	G7	65	VAL	N-CA-C	-7.21	103.27	110.62
4	MA	86	ALA	N-CA-C	-7.20	103.36	111.14
4	M9	86	ALA	N-CA-C	-7.20	103.36	111.14
4	M3	86	ALA	N-CA-C	-7.20	103.37	111.14
4	M1	86	ALA	N-CA-C	-7.20	103.37	111.14
8	S5	65	VAL	N-CA-C	-7.19	103.29	110.62
5	N1	25	THR	N-CA-C	-7.18	103.38	111.14
8	c5	65	VAL	N-CA-C	-7.18	103.29	110.62
11	a9	459	PHE	N-CA-C	7.17	122.42	112.45
11	aA	459	PHE	N-CA-C	7.17	122.42	112.45
11	aA	612	TYR	N-CA-C	7.16	119.16	111.36
8	A7	65	VAL	N-CA-C	-7.16	103.32	110.62
3	FA	160	ALA	N-CA-C	7.15	118.72	111.07
10	j5	692	LEU	N-CA-C	-7.15	104.69	113.41
2	N8	111	ALA	CB-CA-C	7.15	124.65	110.42
8	Y7	65	VAL	N-CA-C	-7.15	103.33	110.62
10	j5	468	ASN	N-CA-CB	7.14	122.07	110.42
5	NA	25	THR	N-CA-C	-7.14	103.43	111.14
4	M4	86	ALA	N-CA-C	-7.14	103.43	111.14
11	a9	612	TYR	N-CA-C	7.14	119.14	111.36
10	k5	692	LEU	N-CA-C	-7.14	104.70	113.41
8	e7	65	VAL	N-CA-C	-7.14	103.34	110.62
8	Y5	65	VAL	N-CA-C	-7.13	103.34	110.62
4	M8	21	LEU	N-CA-C	7.13	121.45	109.76
5	N9	25	THR	N-CA-C	-7.12	103.44	111.14
2	KA	14	SER	O-C-N	7.12	132.83	122.43
10	k5	468	ASN	N-CA-CB	7.12	122.03	110.42
4	MA	21	LEU	N-CA-C	7.12	121.44	109.76
4	M3	21	LEU	N-CA-C	7.12	121.43	109.76
4	M1	21	LEU	N-CA-C	7.12	121.43	109.76
10	j5	534	GLY	CA-C-N	7.11	127.07	120.03
10	j5	534	GLY	C-N-CA	7.11	127.07	120.03
4	M8	136	SER	N-CA-C	-7.11	95.65	110.80
4	M9	21	LEU	N-CA-C	7.11	121.42	109.76
4	M4	21	LEU	N-CA-C	7.11	121.41	109.76
8	U5	22	GLU	CB-CA-C	-7.11	97.29	109.65
10	j5	1106	PHE	CB-CA-C	-7.11	96.84	109.70
4	M8	86	ALA	N-CA-C	-7.10	103.47	111.14
9	z5	67	VAL	CB-CA-C	-7.10	102.43	112.22
2	K9	14	SER	O-C-N	7.10	132.79	122.43
8	S7	65	VAL	N-CA-C	-7.09	103.38	110.62
8	k7	65	VAL	N-CA-C	-7.09	103.39	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	i5	67	VAL	CB-CA-C	-7.09	102.44	112.22
5	NA	35	ASP	N-CA-C	7.08	121.17	111.39
5	N9	35	ASP	N-CA-C	7.08	121.17	111.39
4	M4	136	SER	N-CA-C	-7.08	95.72	110.80
10	k5	534	GLY	CA-C-N	7.08	127.04	120.03
10	k5	534	GLY	C-N-CA	7.08	127.04	120.03
10	k5	725	LEU	CB-CA-C	7.07	122.52	110.56
8	q7	65	VAL	N-CA-C	-7.07	103.41	110.62
10	j5	725	LEU	CB-CA-C	7.07	122.51	110.56
5	N3	35	ASP	N-CA-C	7.07	121.14	111.39
5	Z8	25	THR	N-CA-C	-7.07	103.51	111.14
5	N1	35	ASP	N-CA-C	7.07	121.14	111.39
5	Z8	35	ASP	N-CA-C	7.06	121.13	111.39
10	j5	849	LYS	N-CA-C	7.05	119.05	111.36
9	z7	21	ARG	CA-C-N	-7.05	108.06	121.54
9	z7	21	ARG	C-N-CA	-7.05	108.06	121.54
9	w7	63	ALA	N-CA-C	7.05	125.82	110.80
9	z7	63	ALA	N-CA-C	7.05	125.82	110.80
9	w7	21	ARG	CA-C-N	-7.05	108.07	121.54
9	w7	21	ARG	C-N-CA	-7.05	108.07	121.54
10	k5	530	ALA	N-CA-C	-7.04	95.80	110.80
8	M7	65	VAL	N-CA-C	-7.04	103.43	110.62
4	M4	45	VAL	N-CA-CB	-7.04	99.90	111.45
10	j5	530	ALA	N-CA-C	-7.04	95.80	110.80
10	j5	501	ILE	CB-CA-C	-7.04	103.10	112.46
10	j5	751	LYS	N-CA-C	7.04	121.15	109.95
10	k5	751	LYS	N-CA-C	7.03	121.13	109.95
4	MA	45	VAL	N-CA-CB	-7.03	99.92	111.45
4	M9	45	VAL	N-CA-CB	-7.03	99.92	111.45
4	M8	45	VAL	N-CA-CB	-7.03	99.93	111.45
4	M1	45	VAL	N-CA-CB	-7.03	99.93	111.45
8	u7	56	ASP	N-CA-C	7.02	118.94	111.28
8	i7	114	GLU	CB-CA-C	-7.02	98.91	110.85
11	aA	482	TYR	N-CA-C	7.02	118.93	111.28
10	j5	1010	GLY	CA-C-N	7.02	135.11	122.13
10	j5	1010	GLY	C-N-CA	7.02	135.11	122.13
10	j5	291	ASP	CA-C-N	-7.01	109.65	120.31
10	j5	291	ASP	C-N-CA	-7.01	109.65	120.31
10	k5	291	ASP	CA-C-N	-7.01	109.65	120.31
10	k5	291	ASP	C-N-CA	-7.01	109.65	120.31
8	a7	22	GLU	CA-C-N	7.01	134.94	121.54
8	a7	22	GLU	C-N-CA	7.01	134.94	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	j5	633	ARG	N-CA-C	7.01	119.00	111.36
10	k5	633	ARG	N-CA-C	7.01	119.00	111.36
8	g7	22	GLU	CA-C-N	7.01	134.93	121.54
8	g7	22	GLU	C-N-CA	7.01	134.93	121.54
10	k5	1120	PRO	CA-C-O	-7.01	108.31	118.89
8	c7	114	GLU	CB-CA-C	-7.01	98.93	110.85
10	k5	849	LYS	N-CA-C	7.01	119.00	111.36
4	M3	45	VAL	N-CA-CB	-7.01	99.96	111.45
10	k5	1010	GLY	CA-C-N	7.00	135.09	122.13
10	k5	1010	GLY	C-N-CA	7.00	135.09	122.13
10	k5	238	ARG	N-CA-C	-7.00	103.87	113.18
10	j5	1120	PRO	CA-C-O	-7.00	108.32	118.89
11	a9	482	TYR	N-CA-C	7.00	118.91	111.28
2	KA	16	GLY	N-CA-C	7.00	123.69	113.48
2	K9	16	GLY	N-CA-C	7.00	123.69	113.48
10	k5	501	ILE	CB-CA-C	-6.99	103.16	112.46
8	o7	56	ASP	N-CA-C	6.99	118.90	111.28
10	k5	723	GLN	CB-CA-C	-6.99	98.97	110.85
11	a9	372	ALA	C-N-CD	-6.97	96.40	125.00
11	aA	372	ALA	C-N-CD	-6.97	96.40	125.00
10	j5	506	LYS	CA-C-N	6.97	130.77	120.87
10	j5	506	LYS	C-N-CA	6.97	130.77	120.87
11	a9	776	TYR	CB-CA-C	-6.97	99.80	110.26
11	aA	776	TYR	CB-CA-C	-6.97	99.81	110.26
4	M8	197	ASP	N-CA-C	6.97	118.95	111.36
10	j5	238	ARG	N-CA-C	-6.97	103.92	113.18
10	k5	257	THR	CB-CA-C	-6.96	94.83	109.38
4	MA	212	ALA	N-CA-C	6.96	118.95	111.36
4	M9	212	ALA	N-CA-C	6.96	118.95	111.36
4	M4	197	ASP	N-CA-C	6.96	118.94	111.36
10	j5	723	GLN	CB-CA-C	-6.96	99.02	110.85
10	j5	257	THR	CB-CA-C	-6.96	94.84	109.38
9	z7	11	ILE	CB-CA-C	-6.95	103.19	111.18
4	MA	197	ASP	N-CA-C	6.95	118.94	111.36
10	k5	506	LYS	CA-C-N	6.95	130.74	120.87
10	k5	506	LYS	C-N-CA	6.95	130.74	120.87
10	k5	973	THR	N-CA-CB	6.95	122.23	110.49
4	M1	197	ASP	N-CA-C	6.95	118.94	111.36
10	j5	188	GLU	N-CA-C	6.94	118.85	111.28
4	M9	197	ASP	N-CA-C	6.93	118.92	111.36
4	M8	212	ALA	N-CA-C	6.93	118.92	111.36
4	M8	230	GLN	N-CA-C	6.93	124.01	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M3	197	ASP	N-CA-C	6.93	118.91	111.36
9	w7	11	ILE	CB-CA-C	-6.93	103.21	111.18
10	j5	973	THR	N-CA-CB	6.92	122.18	110.49
4	M3	212	ALA	N-CA-C	6.91	118.89	111.36
10	k5	778	LYS	N-CA-C	6.91	125.52	110.80
4	M1	212	ALA	N-CA-C	6.91	118.89	111.36
4	M4	212	ALA	N-CA-C	6.91	118.89	111.36
10	j5	778	LYS	N-CA-C	6.91	125.51	110.80
10	j5	483	PHE	N-CA-C	6.90	124.80	113.89
10	k5	483	PHE	N-CA-C	6.90	124.79	113.89
11	a9	464	PRO	CA-C-O	-6.90	112.85	120.92
11	aA	464	PRO	CA-C-O	-6.90	112.85	120.92
10	k5	188	GLU	N-CA-C	6.89	118.80	111.28
10	k5	190	LEU	N-CA-C	6.89	118.87	111.36
4	M9	13	LYS	N-CA-C	-6.89	97.18	108.41
11	a9	801	ASN	N-CA-C	6.89	120.91	111.54
11	aA	801	ASN	N-CA-C	6.89	120.91	111.54
9	w7	67	VAL	N-CA-CB	-6.88	102.50	110.55
10	j5	190	LEU	N-CA-C	6.88	118.85	111.36
4	MA	13	LYS	N-CA-C	-6.87	97.20	108.41
11	a9	47	GLU	CB-CA-C	-6.87	100.10	110.88
11	aA	47	GLU	CB-CA-C	-6.87	100.10	110.88
4	M3	50	ASP	N-CA-C	6.87	118.84	111.36
4	M1	50	ASP	N-CA-C	6.87	118.84	111.36
11	a9	642	GLU	N-CA-C	6.86	117.64	108.38
11	aA	642	GLU	N-CA-C	6.86	117.64	108.38
9	z7	67	VAL	N-CA-CB	-6.86	102.52	110.55
4	M4	30	TRP	CA-C-N	6.86	127.00	119.87
4	M4	30	TRP	C-N-CA	6.86	127.00	119.87
10	j5	36	ASN	CB-CA-C	-6.86	95.62	109.68
4	M4	13	LYS	N-CA-C	-6.85	97.24	108.41
4	MA	32	SER	CB-CA-C	-6.85	98.31	109.89
9	i5	43	ARG	CA-C-N	6.85	130.15	120.42
9	i5	43	ARG	C-N-CA	6.85	130.15	120.42
10	j5	480	GLU	N-CA-C	6.85	120.48	108.56
10	j5	556	GLY	CA-C-N	-6.85	112.41	122.68
10	j5	556	GLY	C-N-CA	-6.85	112.41	122.68
4	M8	30	TRP	CA-C-N	6.85	126.99	119.87
4	M8	30	TRP	C-N-CA	6.85	126.99	119.87
4	MA	50	ASP	N-CA-C	6.84	118.82	111.36
4	M9	32	SER	CB-CA-C	-6.84	98.32	109.89
4	M9	50	ASP	N-CA-C	6.84	118.82	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	a9	624	GLY	N-CA-C	-6.84	106.02	114.92
11	aA	624	GLY	N-CA-C	-6.84	106.02	114.92
4	M4	249	ASP	N-CA-C	6.84	119.75	111.82
10	j5	381	ILE	N-CA-C	-6.84	105.93	111.81
10	j5	583	GLY	CA-C-N	6.84	129.44	120.28
10	j5	583	GLY	C-N-CA	6.84	129.44	120.28
10	k5	583	GLY	CA-C-N	6.84	129.44	120.28
10	k5	583	GLY	C-N-CA	6.84	129.44	120.28
4	M8	13	LYS	N-CA-C	-6.83	97.27	108.41
4	M3	13	LYS	N-CA-C	-6.83	97.28	108.41
4	M4	32	SER	CB-CA-C	-6.83	98.35	109.89
10	j5	320	GLU	N-CA-C	6.83	118.72	111.28
4	M8	249	ASP	N-CA-C	6.83	119.74	111.82
4	M1	13	LYS	N-CA-C	-6.83	97.28	108.41
9	y7	28	PHE	N-CA-C	6.82	119.70	108.99
4	M8	32	SER	CB-CA-C	-6.82	98.36	109.89
4	M3	32	SER	CB-CA-C	-6.81	98.38	109.89
4	M1	32	SER	CB-CA-C	-6.81	98.38	109.89
11	a9	607	MET	N-CA-C	6.81	121.88	107.91
11	aA	607	MET	N-CA-C	6.81	121.88	107.91
10	k5	480	GLU	N-CA-C	6.81	120.41	108.56
9	z5	43	ARG	CA-C-N	6.81	130.09	120.42
9	z5	43	ARG	C-N-CA	6.81	130.09	120.42
10	k5	627	ILE	N-CA-C	6.81	117.57	110.62
4	MA	30	TRP	CA-C-N	6.81	126.95	119.87
4	MA	30	TRP	C-N-CA	6.81	126.95	119.87
4	M9	30	TRP	CA-C-N	6.81	126.95	119.87
4	M9	30	TRP	C-N-CA	6.81	126.95	119.87
4	M4	50	ASP	N-CA-C	6.81	118.78	111.36
10	k5	818	GLN	N-CA-C	6.80	118.78	111.36
10	j5	818	GLN	N-CA-C	6.80	118.77	111.36
10	k5	381	ILE	N-CA-C	-6.79	105.97	111.81
10	j5	231	ILE	CB-CA-C	-6.79	103.12	112.02
10	k5	231	ILE	CB-CA-C	-6.79	103.12	112.02
9	x7	28	PHE	N-CA-C	6.79	119.66	108.99
4	M8	50	ASP	N-CA-C	6.79	118.76	111.36
11	a9	563	PHE	CB-CA-C	6.79	118.59	109.42
11	aA	563	PHE	CB-CA-C	6.79	118.59	109.42
10	j5	1055	SER	CA-C-N	-6.79	111.36	119.84
10	j5	1055	SER	C-N-CA	-6.79	111.36	119.84
4	M1	241	LEU	N-CA-C	6.78	118.75	111.36
10	k5	320	GLU	N-CA-C	6.78	118.67	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M3	30	TRP	CA-C-N	6.78	126.92	119.87
4	M3	30	TRP	C-N-CA	6.78	126.92	119.87
4	M1	30	TRP	CA-C-N	6.78	126.92	119.87
4	M1	30	TRP	C-N-CA	6.78	126.92	119.87
10	j5	804	GLU	CB-CA-C	-6.78	99.33	110.85
10	k5	1111	VAL	N-CA-CB	-6.77	103.78	110.08
10	j5	350	PRO	CA-C-O	-6.76	110.73	118.98
10	j5	557	VAL	CB-CA-C	6.76	121.83	110.95
10	k5	1055	SER	CA-C-N	-6.76	111.39	119.84
10	k5	1055	SER	C-N-CA	-6.76	111.39	119.84
10	j5	1111	VAL	N-CA-CB	-6.76	103.80	110.08
4	M8	7	SER	N-CA-C	6.76	125.19	110.80
5	Z8	73	GLY	N-CA-C	6.75	120.84	112.73
4	MA	241	LEU	N-CA-C	6.75	118.72	111.36
4	M8	241	LEU	N-CA-C	6.75	118.72	111.36
4	M9	241	LEU	N-CA-C	6.75	118.72	111.36
4	M3	241	LEU	N-CA-C	6.75	118.72	111.36
10	j5	431	GLN	CB-CA-C	-6.75	99.35	108.87
10	k5	804	GLU	CB-CA-C	-6.75	99.37	110.85
4	M4	7	SER	N-CA-C	6.75	125.18	110.80
4	MA	249	ASP	N-CA-C	6.75	119.65	111.82
10	j5	627	ILE	N-CA-C	6.75	117.50	110.62
10	k5	431	GLN	CB-CA-C	-6.75	99.36	108.87
4	M9	249	ASP	N-CA-C	6.75	119.65	111.82
10	k5	878	GLU	CB-CA-C	-6.74	100.26	110.90
4	M3	249	ASP	N-CA-C	6.73	119.62	111.82
4	M1	249	ASP	N-CA-C	6.73	119.62	111.82
4	M4	241	LEU	N-CA-C	6.72	118.69	111.36
4	MA	258	LYS	N-CA-C	6.72	119.36	108.34
4	M9	258	LYS	N-CA-C	6.72	119.36	108.34
4	M4	258	LYS	N-CA-C	6.72	119.36	108.34
10	k5	84	TYR	CB-CA-C	-6.71	99.64	110.79
4	M4	41	ASN	CA-C-O	-6.71	113.44	120.55
10	j5	878	GLU	CB-CA-C	-6.71	100.30	110.90
10	k5	493	ASN	N-CA-C	-6.71	97.75	108.82
10	j5	901	TYR	CB-CA-C	-6.71	97.79	110.67
4	M8	258	LYS	N-CA-C	6.71	119.34	108.34
10	k5	901	TYR	CB-CA-C	-6.71	97.80	110.67
4	M3	258	LYS	N-CA-C	6.70	119.33	108.34
10	k5	350	PRO	CA-C-O	-6.70	110.80	118.98
10	j5	84	TYR	CB-CA-C	-6.70	99.68	110.79
4	M1	258	LYS	N-CA-C	6.70	119.32	108.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M8	41	ASN	CA-C-O	-6.69	113.46	120.55
10	k5	526	MET	CB-CG-SD	6.69	132.77	112.70
10	j5	863	ILE	CB-CA-C	-6.69	102.99	112.22
10	k5	863	ILE	CB-CA-C	-6.69	102.99	112.22
5	N1	73	GLY	N-CA-C	6.68	120.75	112.73
11	a9	598	SER	CA-C-N	6.68	128.19	119.84
11	a9	598	SER	C-N-CA	6.68	128.19	119.84
10	j5	984	ILE	CA-C-O	-6.68	112.43	120.78
10	k5	984	ILE	CA-C-O	-6.68	112.43	120.78
10	j5	493	ASN	N-CA-C	-6.68	97.80	108.82
10	j5	526	MET	CB-CG-SD	6.68	132.73	112.70
4	M3	41	ASN	CA-C-O	-6.67	113.47	120.55
10	j5	919	ILE	CA-C-O	-6.67	113.78	120.85
4	M1	41	ASN	CA-C-O	-6.67	113.48	120.55
5	NA	73	GLY	N-CA-C	6.67	120.73	112.73
10	k5	36	ASN	CB-CA-C	-6.67	95.65	110.19
4	M8	17	VAL	N-CA-C	6.67	119.12	108.85
5	N3	73	GLY	N-CA-C	6.66	120.72	112.73
3	JA	107	ASP	CA-C-N	-6.66	110.17	122.09
3	JA	107	ASP	C-N-CA	-6.66	110.17	122.09
3	J9	107	ASP	CA-C-N	-6.66	110.17	122.09
3	J9	107	ASP	C-N-CA	-6.66	110.17	122.09
5	Z4	73	GLY	N-CA-C	6.66	120.72	112.73
8	i7	120	GLN	N-CA-C	6.66	120.73	111.74
5	N9	73	GLY	N-CA-C	6.66	120.72	112.73
11	aA	598	SER	CA-C-N	6.65	128.16	119.84
11	aA	598	SER	C-N-CA	6.65	128.16	119.84
4	MA	41	ASN	CA-C-O	-6.65	113.50	120.55
10	j5	523	PRO	N-CA-C	6.65	122.49	113.84
4	M9	41	ASN	CA-C-O	-6.65	113.50	120.55
10	j5	440	TYR	CA-CB-CG	-6.65	101.93	113.90
10	k5	763	SER	CA-CB-OG	-6.65	97.80	111.10
10	k5	919	ILE	CA-C-O	-6.65	113.81	120.85
10	j5	947	MET	CB-CG-SD	-6.64	92.79	112.70
10	k5	878	GLU	N-CA-C	6.64	118.31	111.14
10	k5	947	MET	CB-CG-SD	-6.64	92.79	112.70
4	M3	17	VAL	N-CA-C	6.63	119.07	108.85
4	M4	17	VAL	N-CA-C	6.63	119.07	108.85
10	k5	523	PRO	N-CA-C	6.63	122.47	113.84
4	M1	17	VAL	N-CA-C	6.63	119.07	108.85
4	MA	98	ASP	CA-C-N	6.63	133.91	121.97
4	MA	98	ASP	C-N-CA	6.63	133.91	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	k5	440	TYR	CA-CB-CG	-6.63	101.96	113.90
4	M9	98	ASP	CA-C-N	6.63	133.91	121.97
4	M9	98	ASP	C-N-CA	6.63	133.91	121.97
4	MA	17	VAL	N-CA-C	6.63	119.06	108.85
4	M3	98	ASP	CA-C-N	6.63	133.90	121.97
4	M3	98	ASP	C-N-CA	6.63	133.90	121.97
4	M9	17	VAL	N-CA-C	6.63	119.06	108.85
4	M1	98	ASP	CA-C-N	6.63	133.90	121.97
4	M1	98	ASP	C-N-CA	6.63	133.90	121.97
10	k5	662	ASP	N-CA-C	6.62	120.95	113.01
10	k5	750	ARG	NE-CZ-NH2	6.62	125.16	119.20
3	LA	86	MET	CB-CG-SD	-6.62	92.85	112.70
3	L9	86	MET	CB-CG-SD	-6.62	92.85	112.70
10	j5	763	SER	CA-CB-OG	-6.61	97.87	111.10
10	j5	641	ASP	N-CA-C	6.60	118.24	108.60
10	j5	729	ILE	CB-CA-C	-6.60	100.46	111.29
10	j5	249	SER	N-CA-C	6.60	114.19	108.78
8	c7	120	GLN	N-CA-C	6.60	120.76	111.52
11	a9	580	THR	CB-CA-C	-6.59	99.84	110.79
3	LA	88	ILE	CB-CA-C	-6.59	103.24	112.14
3	L9	88	ILE	CB-CA-C	-6.59	103.24	112.14
1	J5	7	ALA	N-CA-C	-6.59	105.40	113.50
4	M4	143	VAL	CA-C-N	-6.59	109.32	120.58
4	M4	143	VAL	C-N-CA	-6.59	109.32	120.58
9	x7	59	GLY	N-CA-C	6.58	120.97	112.54
11	aA	580	THR	CB-CA-C	-6.58	99.86	110.79
10	j5	750	ARG	NE-CZ-NH2	6.58	125.12	119.20
1	D5	7	ALA	N-CA-C	-6.58	105.41	113.50
10	j5	420	VAL	CA-C-N	6.58	126.53	119.76
10	j5	420	VAL	C-N-CA	6.58	126.53	119.76
10	j5	560	VAL	CB-CA-C	6.58	122.07	111.29
10	k5	664	MET	CB-CA-C	6.58	121.70	110.79
10	k5	729	ILE	CB-CA-C	-6.58	100.51	111.29
10	j5	278	TYR	N-CA-C	6.57	120.06	109.02
10	k5	278	TYR	N-CA-C	6.57	120.05	109.02
9	y7	59	GLY	N-CA-C	6.57	120.95	112.54
8	C5	7	ALA	N-CA-C	-6.57	106.48	114.75
8	A5	48	GLU	CB-CA-C	-6.56	99.69	110.85
4	M8	226	SER	N-CA-C	-6.56	96.82	110.80
10	k5	641	ASP	N-CA-C	6.56	118.18	108.60
10	j5	878	GLU	N-CA-C	6.56	118.22	111.14
10	k5	859	ILE	N-CA-C	6.56	119.25	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	a9	111	THR	CB-CA-C	-6.55	109.03	116.63
11	aA	111	THR	CB-CA-C	-6.55	109.03	116.63
8	I5	7	ALA	N-CA-C	-6.55	106.50	114.75
8	G5	48	GLU	CB-CA-C	-6.55	99.72	110.85
10	j5	664	MET	CB-CA-C	6.55	121.66	110.79
10	j5	859	ILE	N-CA-C	6.55	119.24	111.05
10	j5	984	ILE	N-CA-CB	6.55	122.04	111.23
10	k5	984	ILE	N-CA-CB	6.55	122.03	111.23
10	k5	458	LEU	N-CA-C	6.54	118.49	111.36
10	k5	420	VAL	CA-C-N	6.54	126.50	119.76
10	k5	420	VAL	C-N-CA	6.54	126.50	119.76
9	i5	45	GLN	CB-CA-C	-6.54	99.74	110.85
10	j5	662	ASP	N-CA-C	6.54	120.85	113.01
10	k5	664	MET	N-CA-C	-6.53	104.16	111.28
10	k5	667	SER	CB-CA-C	-6.53	96.29	109.68
10	k5	1138	GLN	N-CA-C	6.53	124.71	110.80
10	j5	1138	GLN	N-CA-C	6.53	124.71	110.80
10	j5	588	VAL	N-CA-CB	6.53	122.00	111.23
10	k5	500	PRO	N-CA-CB	-6.53	99.27	102.92
10	j5	667	SER	CB-CA-C	-6.52	96.31	109.68
10	k5	249	SER	N-CA-C	6.52	114.13	108.78
11	aA	559	THR	N-CA-C	-6.52	96.91	110.80
11	a9	537	ASP	N-CA-C	6.52	121.25	113.16
10	j5	216	ASP	N-CA-C	6.52	120.50	111.90
9	z5	45	GLN	CB-CA-C	-6.52	99.77	110.85
10	j5	500	PRO	N-CA-CB	-6.51	99.27	102.92
8	O5	23	LEU	N-CA-C	-6.51	104.91	112.92
10	j5	458	LEU	N-CA-C	6.51	118.46	111.36
11	aA	537	ASP	N-CA-C	6.51	121.23	113.16
11	a9	606	ALA	N-CA-C	6.51	120.13	109.85
11	aA	606	ALA	N-CA-C	6.51	120.13	109.85
10	k5	216	ASP	N-CA-C	6.51	120.49	111.90
4	MA	47	VAL	CB-CA-C	-6.50	103.82	110.13
4	M9	47	VAL	CB-CA-C	-6.50	103.82	110.13
4	M4	47	VAL	CB-CA-C	-6.50	103.82	110.13
10	k5	699	SER	CA-C-N	6.50	130.19	120.31
10	k5	699	SER	C-N-CA	6.50	130.19	120.31
10	j5	838	GLY	CA-C-O	-6.50	112.53	119.55
10	k5	838	GLY	CA-C-O	-6.50	112.53	119.55
10	j5	557	VAL	CA-CB-CG2	6.50	121.44	110.40
10	j5	973	THR	CB-CA-C	-6.49	97.50	110.42
11	a9	392	ILE	N-CA-C	6.49	117.28	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	aA	392	ILE	N-CA-C	6.49	117.28	110.72
11	a9	588	VAL	N-CA-C	-6.49	98.92	108.97
11	aA	588	VAL	N-CA-C	-6.49	98.92	108.97
10	k5	588	VAL	N-CA-CB	6.48	121.93	111.23
10	j5	699	SER	CA-C-N	6.48	130.16	120.31
10	j5	699	SER	C-N-CA	6.48	130.16	120.31
10	j5	664	MET	N-CA-C	-6.47	104.22	111.28
10	j5	984	ILE	CB-CA-C	-6.47	100.68	111.29
11	a9	607	MET	CA-C-N	6.47	127.93	119.84
11	a9	607	MET	C-N-CA	6.47	127.93	119.84
11	aA	607	MET	CA-C-N	6.47	127.93	119.84
11	aA	607	MET	C-N-CA	6.47	127.93	119.84
10	k5	973	THR	CB-CA-C	-6.47	97.54	110.42
10	k5	984	ILE	CB-CA-C	-6.47	100.69	111.29
4	M1	4	LEU	CB-CA-C	-6.46	96.44	109.68
4	M3	4	LEU	CB-CA-C	-6.46	96.44	109.68
4	M3	47	VAL	CB-CA-C	-6.45	103.87	110.13
4	M1	47	VAL	CB-CA-C	-6.45	103.87	110.13
10	j5	19	THR	CA-C-O	-6.45	114.79	122.27
10	j5	421	PRO	CA-C-O	-6.44	114.00	121.34
4	M4	4	LEU	CB-CA-C	-6.44	96.48	109.68
4	M8	47	VAL	CB-CA-C	-6.44	103.88	110.13
4	M8	4	LEU	CB-CA-C	-6.43	96.49	109.68
4	MA	4	LEU	CB-CA-C	-6.43	96.50	109.68
9	y7	20	GLY	CA-C-O	-6.43	115.69	121.47
4	M9	4	LEU	CB-CA-C	-6.43	96.50	109.68
9	i5	19	THR	N-CA-C	6.43	118.08	111.14
11	a9	25	GLU	O-C-N	-6.43	115.30	120.38
1	J5	20	ASP	N-CA-C	6.42	119.20	108.73
10	j5	663	ALA	O-C-N	-6.42	113.63	122.30
10	k5	19	THR	CA-C-O	-6.42	114.82	122.27
1	D5	20	ASP	N-CA-C	6.42	119.19	108.73
10	k5	421	PRO	CA-C-O	-6.42	114.03	121.34
9	x7	20	GLY	CA-C-O	-6.42	115.70	121.47
10	j5	464	GLN	CA-CB-CG	-6.41	101.28	114.10
6	M2	269	ILE	CB-CA-C	-6.41	106.26	111.71
10	k5	663	ALA	O-C-N	-6.41	113.65	122.30
8	I5	19	SER	CB-CA-C	-6.40	99.64	108.86
10	k5	660	VAL	CB-CA-C	-6.40	103.50	112.14
10	j5	660	VAL	CB-CA-C	-6.40	103.50	112.14
9	z5	19	THR	N-CA-C	6.40	118.05	111.14
10	j5	966	SER	N-CA-CB	-6.40	101.29	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	k5	464	GLN	CA-CB-CG	-6.40	101.31	114.10
10	k5	929	PRO	N-CA-C	6.39	121.96	113.40
10	k5	87	ARG	N-CA-C	-6.39	104.24	111.14
10	k5	617	TYR	N-CA-C	6.38	121.12	112.88
8	C5	19	SER	CB-CA-C	-6.38	99.67	108.86
8	O5	20	PRO	CB-CG-CD	-6.38	85.69	106.10
6	M6	269	ILE	CB-CA-C	-6.38	106.29	111.71
10	k5	995	VAL	CB-CA-C	-6.38	103.53	112.14
8	i7	135	ASN	N-CA-C	6.38	118.23	111.28
10	j5	87	ARG	N-CA-C	-6.37	104.26	111.14
10	j5	995	VAL	CB-CA-C	-6.37	103.54	112.14
10	k5	966	SER	N-CA-CB	-6.37	101.33	110.44
8	A5	65	VAL	N-CA-C	-6.37	103.36	110.62
11	aA	446	ALA	CA-C-N	-6.36	110.22	121.29
11	aA	446	ALA	C-N-CA	-6.36	110.22	121.29
11	a9	446	ALA	CA-C-N	-6.36	110.23	121.29
11	a9	446	ALA	C-N-CA	-6.36	110.23	121.29
8	c7	135	ASN	N-CA-C	6.36	118.21	111.28
8	K5	94	TYR	N-CA-C	-6.35	104.28	111.14
10	j5	929	PRO	N-CA-C	6.35	121.90	113.40
10	j5	917	LYS	CB-CA-C	-6.34	99.50	109.52
8	G5	65	VAL	N-CA-C	-6.33	103.40	110.62
9	w7	41	GLN	CA-C-O	-6.33	113.71	120.42
8	E5	94	TYR	N-CA-C	-6.33	104.31	111.14
9	z7	41	GLN	CA-C-O	-6.33	113.71	120.42
10	j5	617	TYR	N-CA-C	6.32	121.04	112.88
9	w7	7	VAL	CB-CA-C	-6.32	101.09	110.82
10	j5	1111	VAL	CB-CA-C	-6.31	104.07	110.89
10	j5	267	ASP	N-CA-C	6.31	124.24	110.80
10	k5	917	LYS	CB-CA-C	-6.31	99.55	109.52
11	a9	98	ILE	N-CA-C	6.30	119.88	111.44
11	aA	98	ILE	N-CA-C	6.30	119.88	111.44
4	M4	19	MET	CB-CA-C	-6.30	99.93	114.41
9	z7	7	VAL	CB-CA-C	-6.30	101.12	110.82
4	MA	19	MET	CB-CA-C	-6.29	99.94	114.41
4	M9	19	MET	CB-CA-C	-6.29	99.94	114.41
3	LA	116	THR	CB-CA-C	-6.29	101.01	110.88
3	L9	116	THR	CB-CA-C	-6.29	101.01	110.88
10	k5	1111	VAL	CB-CA-C	-6.28	104.11	110.89
8	o7	56	ASP	CB-CA-C	-6.28	100.36	110.79
4	M1	19	MET	CB-CA-C	-6.28	99.97	114.41
10	k5	831	PHE	CA-C-O	-6.27	113.77	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M8	19	MET	CB-CA-C	-6.27	99.98	114.41
11	a9	602	PRO	CA-C-N	6.27	133.51	121.54
11	a9	602	PRO	C-N-CA	6.27	133.51	121.54
11	aA	602	PRO	CA-C-N	6.27	133.51	121.54
11	aA	602	PRO	C-N-CA	6.27	133.51	121.54
10	k5	267	ASP	N-CA-C	6.27	124.15	110.80
4	MA	93	LEU	N-CA-C	6.26	118.49	108.41
9	z7	66	GLY	CA-C-N	6.26	128.45	120.56
9	z7	66	GLY	C-N-CA	6.26	128.45	120.56
4	M9	93	LEU	N-CA-C	6.26	118.49	108.41
4	M3	19	MET	CB-CA-C	-6.26	100.01	114.41
11	a9	490	ILE	CB-CA-C	-6.26	103.82	112.02
11	aA	490	ILE	CB-CA-C	-6.26	103.82	112.02
4	M3	93	LEU	N-CA-C	6.25	118.48	108.41
4	M1	93	LEU	N-CA-C	6.25	118.48	108.41
8	u7	56	ASP	CB-CA-C	-6.25	100.42	110.79
11	a9	324	ASP	N-CA-C	6.25	118.89	111.71
11	aA	324	ASP	N-CA-C	6.25	118.89	111.71
11	a9	604	ALA	N-CA-C	6.24	123.60	109.81
11	aA	604	ALA	N-CA-C	6.24	123.60	109.81
11	a9	419	ARG	CB-CA-C	-6.24	101.28	110.95
11	aA	419	ARG	CB-CA-C	-6.24	101.28	110.95
10	k5	919	ILE	CB-CA-C	-6.23	103.62	112.22
10	j5	919	ILE	CB-CA-C	-6.23	103.62	112.22
10	j5	453	PRO	CA-C-O	-6.23	114.34	121.56
10	j5	831	PHE	CA-C-O	-6.22	113.83	120.42
9	w7	66	GLY	CA-C-N	6.22	128.40	120.56
9	w7	66	GLY	C-N-CA	6.22	128.40	120.56
4	M8	7	SER	N-CA-CB	6.22	121.00	110.49
8	a7	13	ALA	N-CA-C	6.21	120.12	112.54
8	C5	25	ARG	N-CA-C	6.21	124.03	110.80
1	d5	107	ARG	N-CA-C	6.21	120.99	113.17
4	M4	7	SER	N-CA-CB	6.20	120.97	110.49
10	j5	880	THR	N-CA-C	-6.20	97.59	110.80
10	k5	453	PRO	CA-C-O	-6.20	114.37	121.56
10	k5	651	ILE	CB-CA-C	-6.20	101.78	110.95
8	g7	13	ALA	N-CA-C	6.19	120.10	112.54
10	k5	880	THR	N-CA-C	-6.19	97.61	110.80
1	Z	107	ARG	N-CA-C	6.19	120.97	113.17
8	C5	27	LYS	CA-C-N	-6.19	109.72	121.54
8	C5	27	LYS	C-N-CA	-6.19	109.72	121.54
10	j5	651	ILE	CB-CA-C	-6.19	101.79	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	j5	488	LYS	N-CA-C	6.19	119.22	110.50
1	Z7	107	ARG	N-CA-C	6.19	120.97	113.17
8	C5	23	LEU	N-CA-C	-6.18	105.38	113.17
8	I5	25	ARG	N-CA-C	6.18	123.97	110.80
1	Z5	107	ARG	N-CA-C	6.18	120.96	113.17
1	A	107	ARG	N-CA-C	6.18	120.96	113.17
1	N5	107	ARG	N-CA-C	6.18	120.95	113.17
10	j5	857	LYS	N-CA-C	6.18	122.23	113.02
10	k5	488	LYS	N-CA-C	6.18	119.21	110.50
10	k5	857	LYS	N-CA-C	6.18	122.23	113.02
11	aA	540	ILE	N-CA-C	-6.18	106.89	111.90
9	z7	68	GLY	N-CA-C	6.17	121.33	113.24
8	I5	27	LYS	CA-C-N	-6.17	109.75	121.54
8	I5	27	LYS	C-N-CA	-6.17	109.75	121.54
9	w7	68	GLY	N-CA-C	6.17	121.32	113.24
8	A5	55	GLY	O-C-N	-6.17	116.27	122.19
11	a9	540	ILE	N-CA-C	-6.17	106.90	111.90
4	MA	121	GLU	N-CA-C	6.17	118.80	111.71
5	NA	3	VAL	N-CA-C	-6.17	96.51	109.34
4	M9	121	GLU	N-CA-C	6.17	118.80	111.71
5	N9	3	VAL	N-CA-C	-6.17	96.51	109.34
1	T5	107	ARG	N-CA-C	6.16	120.94	113.17
10	k5	280	ALA	N-CA-C	6.16	117.80	111.14
10	k5	586	LEU	N-CA-C	6.16	119.57	107.98
9	z7	40	GLU	N-CA-C	-6.16	105.92	113.50
10	j5	947	MET	CA-C-N	6.16	131.86	122.37
10	j5	947	MET	C-N-CA	6.16	131.86	122.37
4	M8	121	GLU	N-CA-C	6.16	118.79	111.71
5	Z8	3	VAL	N-CA-C	-6.16	96.53	109.34
5	N1	3	VAL	N-CA-C	-6.16	96.53	109.34
8	I5	23	LEU	N-CA-C	-6.16	105.41	113.17
10	k5	184	LEU	N-CA-C	6.16	118.79	111.71
10	k5	295	ARG	N-CA-C	-6.16	104.65	111.36
10	k5	947	MET	CA-C-N	6.16	131.85	122.37
10	k5	947	MET	C-N-CA	6.16	131.85	122.37
5	Z4	3	VAL	N-CA-C	-6.15	96.54	109.34
11	aA	621	THR	CB-CA-C	-6.15	96.53	110.07
11	a9	621	THR	CB-CA-C	-6.15	96.53	110.07
9	w7	40	GLU	N-CA-C	-6.15	105.94	113.50
5	N3	3	VAL	N-CA-C	-6.14	96.56	109.34
10	j5	586	LEU	N-CA-C	6.14	119.53	107.98
10	j5	184	LEU	N-CA-C	6.14	118.77	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	E5	133	MET	N-CA-C	-6.14	105.50	112.87
10	j5	280	ALA	N-CA-C	6.14	117.77	111.14
4	M8	139	VAL	N-CA-C	6.14	116.88	110.62
1	B5	107	ARG	N-CA-C	6.13	120.90	113.17
1	T7	107	ARG	N-CA-C	6.13	120.90	113.17
3	LA	98	LEU	CA-C-N	-6.13	111.43	120.38
3	LA	98	LEU	C-N-CA	-6.13	111.43	120.38
4	M4	121	GLU	N-CA-C	6.13	118.75	111.71
3	H2	84	ARG	O-C-N	-6.12	115.17	122.15
10	j5	722	ILE	CB-CA-C	-6.12	103.77	112.22
3	H6	84	ARG	O-C-N	-6.12	115.17	122.15
4	M8	66	VAL	CB-CA-C	-6.12	103.19	111.15
4	M8	140	ARG	N-CA-C	6.12	117.62	111.07
3	L9	98	LEU	CA-C-N	-6.12	111.45	120.38
3	L9	98	LEU	C-N-CA	-6.12	111.45	120.38
1	H7	107	ARG	N-CA-C	6.12	120.88	113.17
1	H5	107	ARG	N-CA-C	6.11	120.87	113.17
10	k5	704	THR	CA-C-O	-6.11	114.40	120.70
4	M9	66	VAL	CB-CA-C	-6.11	103.21	111.15
1	f7	107	ARG	N-CA-C	6.11	120.87	113.17
11	a9	813	PRO	N-CA-C	-6.11	105.22	113.40
4	M3	121	GLU	N-CA-C	6.11	118.73	111.71
10	j5	501	ILE	CG1-CB-CG2	6.11	129.01	110.70
11	aA	813	PRO	N-CA-C	-6.11	105.22	113.40
4	M1	121	GLU	N-CA-C	6.11	118.73	111.71
8	G5	55	GLY	O-C-N	-6.10	116.33	122.19
10	j5	704	THR	CA-C-O	-6.10	114.41	120.70
8	E5	108	GLY	N-CA-C	6.10	127.64	113.18
4	MA	66	VAL	CB-CA-C	-6.10	103.22	111.15
8	K5	108	GLY	N-CA-C	6.10	127.63	113.18
10	k5	501	ILE	CG1-CB-CG2	6.10	129.00	110.70
10	k5	692	LEU	CA-CB-CG	6.10	137.64	116.30
10	j5	692	LEU	CA-CB-CG	6.09	137.63	116.30
10	j5	655	LYS	N-CA-C	6.09	122.59	114.12
10	k5	722	ILE	CB-CA-C	-6.09	103.82	112.22
4	M4	66	VAL	CB-CA-C	-6.09	103.24	111.15
1	B7	107	ARG	N-CA-C	6.08	120.84	113.17
10	k5	536	LYS	N-CA-CB	-6.08	101.41	110.17
10	k5	847	LEU	CA-C-O	-6.08	114.39	120.90
8	U7	23	LEU	CA-C-N	-6.08	111.97	122.79
8	U7	23	LEU	C-N-CA	-6.08	111.97	122.79
1	N7	107	ARG	N-CA-C	6.08	120.82	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	j5	573	GLN	CA-CB-CG	6.07	126.25	114.10
10	j5	847	LEU	CA-C-O	-6.07	114.40	120.90
9	x7	26	THR	CB-CA-C	-6.07	98.61	109.24
4	M3	46	VAL	N-CA-CB	-6.07	104.11	111.21
10	j5	295	ARG	N-CA-C	-6.07	104.74	111.36
4	M1	46	VAL	N-CA-CB	-6.07	104.11	111.21
4	MA	25	LEU	N-CA-C	-6.07	98.62	108.52
10	k5	573	GLN	CA-CB-CG	6.07	126.24	114.10
4	M9	25	LEU	N-CA-C	-6.07	98.62	108.52
1	h7	48	ALA	N-CA-C	6.07	117.89	111.28
8	i7	143	GLY	N-CA-C	6.07	120.23	112.83
1	b7	48	ALA	N-CA-C	6.06	117.89	111.28
4	M3	66	VAL	CB-CA-C	-6.06	103.27	111.15
4	M1	66	VAL	CB-CA-C	-6.06	103.27	111.15
10	j5	461	ASP	CB-CA-C	-6.06	99.42	110.63
10	j5	571	ALA	N-CA-C	-6.06	104.60	111.14
4	M9	46	VAL	N-CA-CB	-6.06	104.12	111.21
10	j5	536	LYS	N-CA-CB	-6.06	101.45	110.17
10	k5	461	ASP	CB-CA-C	-6.06	99.43	110.63
8	c7	143	GLY	N-CA-C	6.05	120.22	112.83
4	M8	25	LEU	N-CA-C	-6.05	98.65	108.52
4	MA	46	VAL	N-CA-CB	-6.05	104.13	111.21
4	M3	25	LEU	N-CA-C	-6.05	98.65	108.52
1	r7	107	ARG	N-CA-C	6.05	120.80	113.17
4	M1	25	LEU	N-CA-C	-6.05	98.65	108.52
10	j5	514	SER	CA-C-O	-6.05	115.15	120.60
9	y7	26	THR	CB-CA-C	-6.05	98.65	109.24
11	a9	623	ASP	N-CA-C	-6.05	98.22	108.26
11	aA	623	ASP	N-CA-C	-6.05	98.22	108.26
10	k5	655	LYS	N-CA-C	6.05	122.52	114.12
1	l7	107	ARG	N-CA-C	6.05	120.79	113.17
10	k5	494	PRO	CB-CA-C	-6.04	103.97	111.64
10	k5	537	ILE	N-CA-CB	-6.04	103.79	111.64
4	M4	25	LEU	N-CA-C	-6.04	98.68	108.52
10	j5	614	ARG	CB-CA-C	-6.04	101.40	110.88
10	k5	614	ARG	CB-CA-C	-6.04	101.40	110.88
4	M4	46	VAL	N-CA-CB	-6.03	104.15	111.21
10	k5	824	PRO	CA-C-O	-6.03	114.56	121.56
10	k5	492	ILE	N-CA-CB	6.03	117.61	110.55
8	i7	136	VAL	CB-CA-C	-6.03	104.25	111.97
10	k5	15	ARG	N-CA-C	6.03	118.47	109.25
8	e5	13	ALA	N-CA-C	-6.03	105.93	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	j5	15	ARG	N-CA-C	6.02	118.47	109.25
10	k5	571	ALA	N-CA-C	-6.02	104.64	111.14
10	j5	537	ILE	N-CA-CB	-6.02	103.81	111.64
10	k5	589	ALA	CA-C-N	6.02	128.83	120.29
10	k5	589	ALA	C-N-CA	6.02	128.83	120.29
3	L9	144	SER	CA-C-N	6.02	127.36	119.84
3	L9	144	SER	C-N-CA	6.02	127.36	119.84
4	M8	46	VAL	N-CA-CB	-6.01	104.17	111.21
10	k5	854	LEU	N-CA-C	-6.01	104.09	112.45
10	j5	824	PRO	CA-C-O	-6.01	114.59	121.56
10	j5	779	ASP	N-CA-C	6.01	117.91	111.36
9	x7	63	ALA	CA-C-N	6.01	133.01	121.54
9	x7	63	ALA	C-N-CA	6.01	133.01	121.54
11	a9	423	ILE	N-CA-C	6.01	118.36	108.99
11	aA	423	ILE	N-CA-C	6.01	118.36	108.99
11	a9	807	GLN	N-CA-C	-6.00	98.29	108.26
11	aA	807	GLN	N-CA-C	-6.00	98.29	108.26
8	a5	13	ALA	N-CA-C	-6.00	105.96	113.28
10	j5	494	PRO	CB-CA-C	-6.00	104.02	111.64
3	H6	144	SER	CA-C-N	6.00	127.34	119.84
3	H6	144	SER	C-N-CA	6.00	127.34	119.84
11	aA	800	THR	CB-CA-C	-6.00	99.20	110.01
10	j5	492	ILE	N-CA-CB	6.00	117.57	110.55
10	k5	883	SER	CB-CA-C	-6.00	98.48	110.42
8	U5	22	GLU	N-CA-C	-6.00	106.00	113.38
10	j5	733	SER	N-CA-CB	-6.00	101.59	110.53
3	L4	144	SER	CA-C-N	6.00	127.33	119.84
3	L4	144	SER	C-N-CA	6.00	127.33	119.84
3	L8	144	SER	CA-C-N	6.00	127.33	119.84
3	L8	144	SER	C-N-CA	6.00	127.33	119.84
10	j5	589	ALA	CA-C-N	5.99	128.80	120.29
10	j5	589	ALA	C-N-CA	5.99	128.80	120.29
3	LA	144	SER	CA-C-N	5.99	127.33	119.84
3	LA	144	SER	C-N-CA	5.99	127.33	119.84
10	j5	767	LEU	CB-CA-C	-5.99	101.48	110.88
11	a9	538	ARG	N-CA-C	5.99	119.41	111.75
11	aA	538	ARG	N-CA-C	5.99	119.41	111.75
9	y7	63	ALA	CA-C-N	5.99	132.97	121.54
9	y7	63	ALA	C-N-CA	5.99	132.97	121.54
3	H2	144	SER	CA-C-N	5.98	127.32	119.84
3	H2	144	SER	C-N-CA	5.98	127.32	119.84
10	k5	779	ASP	N-CA-C	5.98	117.88	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	X3	144	SER	CA-C-N	5.98	127.31	119.84
3	X3	144	SER	C-N-CA	5.98	127.31	119.84
10	k5	411	TYR	CB-CA-C	-5.98	101.50	110.88
3	X1	144	SER	CA-C-N	5.98	127.31	119.84
3	X1	144	SER	C-N-CA	5.98	127.31	119.84
3	H4	144	SER	CA-C-N	5.98	127.31	119.84
3	H4	144	SER	C-N-CA	5.98	127.31	119.84
10	j5	883	SER	CB-CA-C	-5.98	98.53	110.42
11	a9	800	THR	CB-CA-C	-5.97	99.26	110.01
10	j5	411	TYR	CB-CA-C	-5.97	101.50	110.88
10	k5	767	LEU	CB-CA-C	-5.97	101.51	110.88
8	c7	136	VAL	CB-CA-C	-5.96	104.34	111.97
10	k5	893	ASN	CA-C-O	-5.96	114.10	120.42
8	U5	18	LEU	O-C-N	5.96	130.14	122.81
8	O7	20	PRO	N-CA-C	5.96	124.74	112.47
10	k5	511	ARG	N-CA-CB	-5.95	100.72	110.43
3	H8	144	SER	CA-C-N	5.95	127.28	119.84
3	H8	144	SER	C-N-CA	5.95	127.28	119.84
3	L4	66	LEU	N-CA-C	-5.95	98.12	110.80
10	j5	511	ARG	N-CA-CB	-5.95	100.73	110.43
3	D3	144	SER	CA-C-N	5.95	127.28	119.84
3	D3	144	SER	C-N-CA	5.95	127.28	119.84
9	z7	17	VAL	N-CA-C	5.95	121.72	109.34
9	z7	62	GLY	N-CA-C	5.95	120.39	112.77
4	M4	93	LEU	N-CA-C	5.95	118.43	108.02
10	k5	733	SER	N-CA-CB	-5.95	101.67	110.53
11	a9	636	ALA	CA-C-N	5.95	127.55	120.23
11	a9	636	ALA	C-N-CA	5.95	127.55	120.23
3	T1	144	SER	CA-C-N	5.95	127.27	119.84
3	T1	144	SER	C-N-CA	5.95	127.27	119.84
10	k5	557	VAL	CA-C-O	-5.94	114.05	120.47
3	F3	144	SER	CA-C-N	5.94	127.27	119.84
3	F3	144	SER	C-N-CA	5.94	127.27	119.84
10	j5	854	LEU	N-CA-C	-5.94	104.19	112.45
10	k5	514	SER	CA-C-O	-5.94	115.25	120.60
9	w7	17	VAL	N-CA-C	5.94	121.70	109.34
3	F1	144	SER	CA-C-N	5.94	127.27	119.84
3	F1	144	SER	C-N-CA	5.94	127.27	119.84
10	j5	544	VAL	N-CA-C	-5.94	96.99	109.34
3	D1	144	SER	CA-C-N	5.94	127.26	119.84
3	D1	144	SER	C-N-CA	5.94	127.26	119.84
3	L1	144	SER	CA-C-N	5.94	127.26	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	L1	144	SER	C-N-CA	5.94	127.26	119.84
3	L6	144	SER	CA-C-N	5.93	127.26	119.84
3	L6	144	SER	C-N-CA	5.93	127.26	119.84
10	j5	893	ASN	CA-C-O	-5.93	114.13	120.42
4	M8	92	GLU	N-CA-C	5.93	118.08	108.41
3	H3	144	SER	CA-C-N	5.93	127.25	119.84
3	H3	144	SER	C-N-CA	5.93	127.25	119.84
4	M8	173	PHE	N-CA-C	5.93	117.82	111.36
11	a9	616	PRO	CB-CA-C	-5.93	103.81	111.46
11	aA	616	PRO	CB-CA-C	-5.93	103.81	111.46
3	H1	144	SER	CA-C-N	5.93	127.25	119.84
3	H1	144	SER	C-N-CA	5.93	127.25	119.84
3	F9	157	VAL	N-CA-CB	-5.93	103.61	110.55
11	a9	444	ARG	N-CA-C	5.92	117.74	111.28
3	L2	144	SER	CA-C-N	5.92	127.24	119.84
3	L2	144	SER	C-N-CA	5.92	127.24	119.84
10	k5	544	VAL	N-CA-C	-5.92	97.02	109.34
11	aA	444	ARG	N-CA-C	5.92	117.73	111.28
8	I5	11	ALA	N-CA-C	-5.92	104.41	111.69
3	T3	144	SER	CA-C-N	5.92	127.24	119.84
3	T3	144	SER	C-N-CA	5.92	127.24	119.84
1	T7	34	GLY	N-CA-C	5.92	119.36	112.50
11	aA	636	ALA	CA-C-N	5.92	127.51	120.23
11	aA	636	ALA	C-N-CA	5.92	127.51	120.23
4	M3	112	GLN	N-CA-C	5.92	117.53	111.14
4	M4	173	PHE	N-CA-C	5.92	117.81	111.36
9	w7	62	GLY	N-CA-C	5.91	120.34	112.77
11	a9	583	ALA	CA-C-N	-5.91	111.89	120.29
11	a9	583	ALA	C-N-CA	-5.91	111.89	120.29
11	aA	583	ALA	CA-C-N	-5.91	111.89	120.29
11	aA	583	ALA	C-N-CA	-5.91	111.89	120.29
1	L5	34	GLY	N-CA-C	5.91	119.36	112.50
3	XA	144	SER	CA-C-N	5.91	127.22	119.84
3	XA	144	SER	C-N-CA	5.91	127.22	119.84
3	L3	144	SER	CA-C-N	5.91	127.23	119.84
3	L3	144	SER	C-N-CA	5.91	127.23	119.84
10	k5	544	VAL	N-CA-CB	5.91	120.98	111.23
3	F6	144	SER	CA-C-N	5.91	127.22	119.84
3	F6	144	SER	C-N-CA	5.91	127.22	119.84
11	a9	542	ALA	N-CA-C	5.91	117.80	111.36
11	aA	542	ALA	N-CA-C	5.91	117.80	111.36
1	d5	34	GLY	N-CA-C	5.90	119.35	112.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	X9	144	SER	CA-C-N	5.90	127.22	119.84
3	X9	144	SER	C-N-CA	5.90	127.22	119.84
10	k5	751	LYS	CA-C-O	-5.90	114.50	121.16
3	J3	144	SER	CA-C-N	5.89	127.21	119.84
3	J3	144	SER	C-N-CA	5.89	127.21	119.84
10	j5	751	LYS	CA-C-O	-5.89	114.50	121.16
1	T5	34	GLY	N-CA-C	5.89	119.33	112.50
4	M3	228	SER	O-C-N	-5.89	116.62	123.27
10	j5	385	PRO	O-C-N	-5.89	114.11	122.35
8	C5	11	ALA	N-CA-C	-5.89	104.45	111.69
4	M3	57	THR	CB-CA-C	-5.88	101.02	110.79
4	M4	57	THR	CB-CA-C	-5.88	101.02	110.79
1	B7	34	GLY	N-CA-C	5.88	119.33	112.50
3	F8	113	LEU	CA-C-N	-5.88	110.40	122.58
3	F8	113	LEU	C-N-CA	-5.88	110.40	122.58
3	F9	153	CYS	CA-CB-SG	5.88	127.93	114.40
11	a9	51	SER	CA-C-O	-5.88	113.45	120.10
11	aA	51	SER	CA-C-O	-5.88	113.45	120.10
4	M1	57	THR	CB-CA-C	-5.88	101.02	110.79
3	Q8	144	SER	CA-C-N	5.88	127.19	119.84
3	Q8	144	SER	C-N-CA	5.88	127.19	119.84
3	Q4	144	SER	CA-C-N	5.88	127.19	119.84
3	Q4	144	SER	C-N-CA	5.88	127.19	119.84
1	D5	34	GLY	N-CA-C	5.88	119.32	112.50
3	H9	144	SER	CA-C-N	5.88	127.19	119.84
3	H9	144	SER	C-N-CA	5.88	127.19	119.84
4	MA	57	THR	CB-CA-C	-5.88	101.03	110.79
3	Y4	144	SER	CA-C-N	5.88	127.19	119.84
3	Y4	144	SER	C-N-CA	5.88	127.19	119.84
1	N7	34	GLY	N-CA-C	5.88	119.32	112.50
1	r7	34	GLY	N-CA-C	5.88	119.32	112.50
3	FA	153	CYS	CA-CB-SG	5.88	127.92	114.40
10	j5	544	VAL	N-CA-CB	5.88	120.93	111.23
10	k5	548	SER	CA-C-N	5.88	132.76	121.54
10	k5	548	SER	C-N-CA	5.88	132.76	121.54
3	HA	144	SER	CA-C-N	5.87	127.18	119.84
3	HA	144	SER	C-N-CA	5.87	127.18	119.84
1	H5	34	GLY	N-CA-C	5.87	119.31	112.50
1	J5	34	GLY	N-CA-C	5.87	119.31	112.50
3	PA	144	SER	CA-C-N	5.87	127.18	119.84
3	PA	144	SER	C-N-CA	5.87	127.18	119.84
1	P7	34	GLY	N-CA-C	5.87	119.31	112.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	R7	34	GLY	N-CA-C	5.87	119.31	112.50
3	P9	144	SER	CA-C-N	5.87	127.18	119.84
3	P9	144	SER	C-N-CA	5.87	127.18	119.84
3	B3	144	SER	CA-C-N	5.87	127.17	119.84
3	B3	144	SER	C-N-CA	5.87	127.17	119.84
3	B1	144	SER	CA-C-N	5.87	127.17	119.84
3	B1	144	SER	C-N-CA	5.87	127.17	119.84
3	RA	144	SER	CA-C-N	5.87	127.17	119.84
3	RA	144	SER	C-N-CA	5.87	127.17	119.84
4	M3	173	PHE	N-CA-C	5.87	117.75	111.36
1	N5	34	GLY	N-CA-C	5.87	119.31	112.50
1	F5	34	GLY	N-CA-C	5.87	119.30	112.50
1	Z5	34	GLY	N-CA-C	5.87	119.30	112.50
3	R9	144	SER	CA-C-N	5.87	127.17	119.84
3	R9	144	SER	C-N-CA	5.87	127.17	119.84
4	M1	173	PHE	N-CA-C	5.87	117.75	111.36
1	l7	34	GLY	N-CA-C	5.86	119.30	112.50
8	u7	50	ILE	CB-CA-C	-5.86	104.13	112.22
9	z7	67	VAL	CB-CA-C	-5.86	104.47	111.97
4	M8	57	THR	CB-CA-C	-5.86	101.06	110.79
4	M9	57	THR	CB-CA-C	-5.86	101.06	110.79
3	J1	144	SER	CA-C-N	5.86	127.17	119.84
3	J1	144	SER	C-N-CA	5.86	127.17	119.84
4	M1	228	SER	O-C-N	-5.86	116.64	123.27
1	H7	34	GLY	N-CA-C	5.86	119.30	112.50
4	MA	112	GLN	N-CA-C	5.86	117.47	111.14
4	MA	173	PHE	N-CA-C	5.86	117.75	111.36
4	M4	112	GLN	N-CA-C	5.86	117.47	111.14
9	w7	67	VAL	CB-CA-C	-5.86	104.47	111.97
4	M9	112	GLN	N-CA-C	5.86	117.47	111.14
4	M9	173	PHE	N-CA-C	5.86	117.75	111.36
11	aA	557	GLY	N-CA-C	-5.86	99.29	113.18
4	M1	112	GLN	N-CA-C	5.86	117.47	111.14
1	Z	34	GLY	N-CA-C	5.86	119.30	112.50
3	TA	144	SER	CA-C-N	5.86	127.16	119.84
3	TA	144	SER	C-N-CA	5.86	127.16	119.84
3	Y8	144	SER	CA-C-N	5.86	127.16	119.84
3	Y8	144	SER	C-N-CA	5.86	127.16	119.84
3	T9	144	SER	CA-C-N	5.86	127.16	119.84
3	T9	144	SER	C-N-CA	5.86	127.16	119.84
10	j5	741	GLN	CA-C-O	-5.86	115.18	121.56
1	A	34	GLY	N-CA-C	5.85	119.29	112.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Z3	144	SER	CA-C-N	5.85	127.15	119.84
3	Z3	144	SER	C-N-CA	5.85	127.15	119.84
10	k5	1086	THR	N-CA-C	5.85	120.43	113.12
3	Z1	144	SER	CA-C-N	5.85	127.15	119.84
3	Z1	144	SER	C-N-CA	5.85	127.15	119.84
1	V5	34	GLY	N-CA-C	5.85	119.28	112.50
3	B6	144	SER	CA-C-N	5.85	127.15	119.84
3	B6	144	SER	C-N-CA	5.85	127.15	119.84
8	o7	50	ILE	N-CA-C	-5.85	104.81	110.72
4	M8	112	GLN	N-CA-C	5.85	117.45	111.14
2	U1	44	LEU	CA-C-N	5.85	128.70	120.28
2	U1	44	LEU	C-N-CA	5.85	128.70	120.28
10	k5	385	PRO	O-C-N	-5.85	114.17	122.35
3	V3	144	SER	CA-C-N	5.84	127.15	119.84
3	V3	144	SER	C-N-CA	5.84	127.15	119.84
3	U4	144	SER	CA-C-N	5.84	127.14	119.84
3	U4	144	SER	C-N-CA	5.84	127.14	119.84
1	B5	34	GLY	N-CA-C	5.84	119.28	112.50
3	U8	144	SER	CA-C-N	5.84	127.14	119.84
3	U8	144	SER	C-N-CA	5.84	127.14	119.84
3	O8	144	SER	CA-C-N	5.84	127.14	119.84
3	O8	144	SER	C-N-CA	5.84	127.14	119.84
3	V1	144	SER	CA-C-N	5.84	127.15	119.84
3	V1	144	SER	C-N-CA	5.84	127.15	119.84
10	j5	157	ILE	N-CA-C	5.84	116.62	110.72
3	B4	144	SER	CA-C-N	5.84	127.14	119.84
3	B4	144	SER	C-N-CA	5.84	127.14	119.84
3	B2	144	SER	CA-C-N	5.84	127.14	119.84
3	B2	144	SER	C-N-CA	5.84	127.14	119.84
1	b5	34	GLY	N-CA-C	5.84	119.27	112.50
10	k5	848	ILE	CB-CA-C	-5.84	104.26	112.14
1	n7	34	GLY	N-CA-C	5.84	119.27	112.50
3	W4	144	SER	CA-C-N	5.83	127.13	119.84
3	W4	144	SER	C-N-CA	5.83	127.13	119.84
10	j5	548	SER	CA-C-N	5.83	132.69	121.54
10	j5	548	SER	C-N-CA	5.83	132.69	121.54
3	W8	144	SER	CA-C-N	5.83	127.13	119.84
3	W8	144	SER	C-N-CA	5.83	127.13	119.84
1	P5	34	GLY	N-CA-C	5.83	119.27	112.50
3	B8	144	SER	CA-C-N	5.83	127.13	119.84
3	B8	144	SER	C-N-CA	5.83	127.13	119.84
11	aA	376	ALA	N-CA-C	5.83	117.86	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	a9	338	VAL	N-CA-C	-5.83	107.01	111.62
11	aA	338	VAL	N-CA-C	-5.83	107.01	111.62
10	j5	252	ASP	N-CA-C	5.83	120.53	112.90
1	Z7	34	GLY	N-CA-C	5.83	119.26	112.50
3	F2	144	SER	CA-C-N	5.83	127.12	119.84
3	F2	144	SER	C-N-CA	5.83	127.12	119.84
11	a9	280	ASP	N-CA-C	5.83	122.69	109.81
11	aA	280	ASP	N-CA-C	5.83	122.69	109.81
10	j5	1086	THR	N-CA-C	5.83	120.40	113.12
3	F4	144	SER	CA-C-N	5.82	127.12	119.84
3	F4	144	SER	C-N-CA	5.82	127.12	119.84
10	j5	152	ARG	CB-CA-C	-5.82	101.12	110.79
3	F8	144	SER	CA-C-N	5.82	127.12	119.84
3	F8	144	SER	C-N-CA	5.82	127.12	119.84
4	M9	228	SER	O-C-N	-5.82	116.69	123.27
3	R1	144	SER	CA-C-N	5.82	127.11	119.84
3	R1	144	SER	C-N-CA	5.82	127.11	119.84
10	k5	1103	LEU	N-CA-C	5.82	117.62	111.28
3	D4	144	SER	CA-C-N	5.82	127.11	119.84
3	D4	144	SER	C-N-CA	5.82	127.11	119.84
3	J4	144	SER	CA-C-N	5.82	127.11	119.84
3	J4	144	SER	C-N-CA	5.82	127.11	119.84
3	D8	144	SER	CA-C-N	5.82	127.11	119.84
3	D8	144	SER	C-N-CA	5.82	127.11	119.84
11	aA	25	GLU	O-C-N	-5.82	115.30	120.48
3	BA	144	SER	CA-C-N	5.82	127.11	119.84
3	BA	144	SER	C-N-CA	5.82	127.11	119.84
4	MA	228	SER	O-C-N	-5.82	116.70	123.27
1	v7	34	GLY	N-CA-C	5.82	119.25	112.50
3	B9	144	SER	CA-C-N	5.82	127.11	119.84
3	B9	144	SER	C-N-CA	5.82	127.11	119.84
3	O4	144	SER	CA-C-N	5.81	127.11	119.84
3	O4	144	SER	C-N-CA	5.81	127.11	119.84
3	ZA	144	SER	CA-C-N	5.81	127.11	119.84
3	ZA	144	SER	C-N-CA	5.81	127.11	119.84
10	k5	157	ILE	N-CA-C	5.81	116.59	110.72
8	o7	50	ILE	CB-CA-C	-5.81	104.20	112.22
8	u7	34	GLU	CA-C-N	5.81	128.54	120.29
8	u7	34	GLU	C-N-CA	5.81	128.54	120.29
3	Z9	144	SER	CA-C-N	5.81	127.11	119.84
3	Z9	144	SER	C-N-CA	5.81	127.11	119.84
3	D2	144	SER	CA-C-N	5.81	127.11	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	D2	144	SER	C-N-CA	5.81	127.11	119.84
3	FA	154	SER	N-CA-C	5.81	117.61	111.28
11	a9	376	ALA	N-CA-C	5.81	117.83	110.33
3	R3	144	SER	CA-C-N	5.81	127.10	119.84
3	R3	144	SER	C-N-CA	5.81	127.10	119.84
10	k5	636	GLY	N-CA-C	5.81	126.95	113.18
10	k5	741	GLN	CA-C-O	-5.81	115.23	121.56
3	D6	144	SER	CA-C-N	5.81	127.10	119.84
3	D6	144	SER	C-N-CA	5.81	127.10	119.84
10	j5	848	ILE	CB-CA-C	-5.81	104.30	112.14
10	j5	983	ARG	N-CA-C	5.81	120.66	112.93
10	k5	983	ARG	N-CA-C	5.81	120.66	112.93
1	F7	34	GLY	N-CA-C	5.81	119.24	112.50
3	V9	144	SER	CA-C-N	5.81	127.10	119.84
3	V9	144	SER	C-N-CA	5.81	127.10	119.84
4	MA	8	SER	N-CA-CB	-5.80	101.45	111.55
4	M4	228	SER	O-C-N	-5.80	116.71	123.27
1	f5	34	GLY	N-CA-C	5.80	119.23	112.50
10	j5	983	ARG	CA-C-N	5.80	132.42	121.97
10	j5	983	ARG	C-N-CA	5.80	132.42	121.97
1	t7	34	GLY	N-CA-C	5.80	119.23	112.50
11	a9	419	ARG	O-C-N	-5.80	115.76	122.03
11	aA	419	ARG	O-C-N	-5.80	115.76	122.03
4	M3	8	SER	N-CA-CB	-5.80	101.45	111.55
10	j5	489	ASN	CA-C-O	-5.80	114.27	120.42
8	u7	50	ILE	N-CA-C	-5.80	104.86	110.72
4	M1	8	SER	N-CA-CB	-5.80	101.45	111.55
3	VA	144	SER	CA-C-N	5.80	127.09	119.84
3	VA	144	SER	C-N-CA	5.80	127.09	119.84
10	k5	152	ARG	CB-CA-C	-5.80	101.16	110.79
10	k5	489	ASN	CA-C-O	-5.80	114.27	120.42
10	j5	650	ASP	OD1-CG-OD2	-5.80	108.98	122.90
10	j5	1011	ILE	CB-CA-C	-5.80	100.81	111.36
1	X7	34	GLY	N-CA-C	5.80	119.23	112.50
1	p7	34	GLY	N-CA-C	5.80	119.23	112.50
3	J8	144	SER	CA-C-N	5.80	127.09	119.84
3	J8	144	SER	C-N-CA	5.80	127.09	119.84
3	D9	144	SER	CA-C-N	5.80	127.09	119.84
3	D9	144	SER	C-N-CA	5.80	127.09	119.84
4	M4	8	SER	N-CA-CB	-5.80	101.47	111.55
1	j7	34	GLY	N-CA-C	5.80	119.22	112.50
8	U5	76	LYS	N-CA-C	-5.79	103.77	111.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	w7	59	GLY	N-CA-C	5.79	122.05	112.66
4	M9	8	SER	N-CA-CB	-5.79	101.47	111.55
4	MA	37	GLU	N-CA-CB	-5.79	100.89	109.98
3	P1	144	SER	CA-C-N	5.79	127.08	119.84
3	P1	144	SER	C-N-CA	5.79	127.08	119.84
3	P3	144	SER	CA-C-N	5.79	127.08	119.84
3	P3	144	SER	C-N-CA	5.79	127.08	119.84
8	O5	76	LYS	N-CA-C	-5.79	103.77	111.24
1	X5	34	GLY	N-CA-C	5.79	119.22	112.50
4	M9	37	GLU	N-CA-CB	-5.79	100.89	109.98
10	k5	983	ARG	CA-C-N	5.79	132.39	121.97
10	k5	983	ARG	C-N-CA	5.79	132.39	121.97
3	S4	144	SER	CA-C-N	5.79	127.08	119.84
3	S4	144	SER	C-N-CA	5.79	127.08	119.84
10	j5	636	GLY	N-CA-C	5.79	126.90	113.18
10	k5	457	THR	CA-C-O	-5.79	114.28	120.42
1	D7	34	GLY	N-CA-C	5.79	119.22	112.50
4	M8	8	SER	N-CA-CB	-5.79	101.48	111.55
3	S8	144	SER	CA-C-N	5.79	127.08	119.84
3	S8	144	SER	C-N-CA	5.79	127.08	119.84
11	a9	799	ASP	N-CA-C	-5.79	98.47	110.80
11	aA	799	ASP	N-CA-C	-5.79	98.47	110.80
3	J6	144	SER	CA-C-N	5.79	127.07	119.84
3	J6	144	SER	C-N-CA	5.79	127.07	119.84
10	j5	457	THR	CA-C-O	-5.79	114.29	120.42
10	k5	1011	ILE	CB-CA-C	-5.79	100.83	111.36
3	J2	144	SER	CA-C-N	5.79	127.07	119.84
3	J2	144	SER	C-N-CA	5.79	127.07	119.84
1	J7	34	GLY	N-CA-C	5.78	119.21	112.50
1	f7	34	GLY	N-CA-C	5.78	119.21	112.50
5	Z4	39	PRO	N-CA-CB	-5.78	97.18	103.25
10	k5	252	ASP	N-CA-C	5.78	120.47	112.90
4	M8	37	GLU	N-CA-CB	-5.78	100.90	109.98
1	d7	34	GLY	N-CA-C	5.78	119.20	112.50
8	o7	34	GLU	CA-C-N	5.78	128.49	120.29
8	o7	34	GLU	C-N-CA	5.78	128.49	120.29
11	a9	502	ASN	N-CA-C	5.78	121.76	114.31
11	aA	502	ASN	N-CA-C	5.78	121.76	114.31
5	N3	33	GLY	N-CA-C	5.78	126.87	113.18
4	M3	37	GLU	N-CA-CB	-5.77	100.92	109.98
10	j5	1103	LEU	N-CA-C	5.77	117.57	111.28
4	M1	37	GLU	N-CA-CB	-5.77	100.92	109.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	k5	383	SER	N-CA-C	5.77	120.32	113.16
9	z7	59	GLY	N-CA-C	5.77	122.01	112.66
10	j5	751	LYS	N-CA-CB	-5.77	101.62	110.85
3	DA	144	SER	CA-C-N	5.77	127.05	119.84
3	DA	144	SER	C-N-CA	5.77	127.05	119.84
3	J9	144	SER	CA-C-N	5.77	127.05	119.84
3	J9	144	SER	C-N-CA	5.77	127.05	119.84
10	k5	650	ASP	OD1-CG-OD2	-5.77	109.06	122.90
4	M4	94	TRP	N-CA-C	5.76	117.50	110.41
10	j5	750	ARG	O-C-N	-5.76	117.25	123.42
5	N1	33	GLY	N-CA-C	5.76	126.84	113.18
4	MA	94	TRP	N-CA-C	5.76	117.50	110.41
10	k5	750	ARG	O-C-N	-5.76	117.26	123.42
4	M9	94	TRP	N-CA-C	5.76	117.50	110.41
5	Z8	33	GLY	N-CA-C	5.76	126.83	113.18
10	j5	592	LYS	N-CA-C	5.76	118.50	111.82
10	k5	235	ASP	O-C-N	5.76	129.35	122.79
11	aA	412	VAL	N-CA-C	5.76	118.25	111.05
11	a9	587	THR	O-C-N	5.75	128.25	122.03
11	aA	587	THR	O-C-N	5.75	128.25	122.03
1	R5	34	GLY	N-CA-C	5.75	119.17	112.50
4	M1	94	TRP	N-CA-C	5.75	117.48	110.41
5	Z4	33	GLY	N-CA-C	5.75	126.81	113.18
8	I5	26	ILE	CA-C-N	5.75	132.52	121.54
8	I5	26	ILE	C-N-CA	5.75	132.52	121.54
10	j5	383	SER	N-CA-C	5.75	120.29	113.16
4	M3	94	TRP	N-CA-C	5.75	117.48	110.41
10	j5	1103	LEU	CA-CB-CG	-5.74	96.20	116.30
10	k5	751	LYS	N-CA-CB	-5.74	101.66	110.85
1	L7	34	GLY	N-CA-C	5.74	119.16	112.50
4	M8	228	SER	O-C-N	-5.74	116.78	123.27
3	JA	144	SER	CA-C-N	5.74	127.02	119.84
3	JA	144	SER	C-N-CA	5.74	127.02	119.84
5	NA	33	GLY	N-CA-C	5.74	126.79	113.18
10	j5	899	GLU	CB-CA-C	-5.74	101.26	110.79
5	N9	33	GLY	N-CA-C	5.74	126.79	113.18
10	k5	899	GLU	CB-CA-C	-5.74	101.26	110.79
8	O7	102	THR	CA-C-N	5.74	125.42	119.05
8	O7	102	THR	C-N-CA	5.74	125.42	119.05
10	j5	803	LYS	CB-CG-CD	-5.74	98.10	111.30
10	k5	1103	LEU	CA-CB-CG	-5.74	96.22	116.30
8	C5	26	ILE	CA-C-N	5.74	132.49	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	C5	26	ILE	C-N-CA	5.74	132.49	121.54
10	j5	235	ASP	O-C-N	5.74	129.33	122.79
8	K5	80	LEU	N-CA-C	-5.73	105.99	112.87
4	M4	37	GLU	N-CA-CB	-5.73	100.98	109.98
8	U5	102	THR	CA-C-N	5.73	125.41	119.05
8	U5	102	THR	C-N-CA	5.73	125.41	119.05
11	a9	412	VAL	N-CA-C	5.73	118.22	111.05
10	j5	1120	PRO	CA-C-N	5.73	132.49	121.54
10	j5	1120	PRO	C-N-CA	5.73	132.49	121.54
4	M4	228	SER	N-CA-C	5.73	118.58	109.24
10	k5	592	LYS	N-CA-C	5.72	118.46	111.82
10	j5	935	LEU	N-CA-C	-5.72	104.50	112.45
5	Z4	39	PRO	CA-C-N	-5.72	110.61	121.54
5	Z4	39	PRO	C-N-CA	-5.72	110.61	121.54
4	M8	113	ILE	N-CA-C	5.72	116.50	110.72
10	k5	803	LYS	CB-CG-CD	-5.72	98.15	111.30
8	E5	80	LEU	N-CA-C	-5.72	106.01	112.87
4	MA	228	SER	N-CA-C	5.71	118.55	109.24
1	V7	34	GLY	N-CA-C	5.71	119.13	112.50
4	M9	228	SER	N-CA-C	5.71	118.55	109.24
4	M8	228	SER	N-CA-C	5.71	118.55	109.24
4	M3	228	SER	N-CA-C	5.71	118.54	109.24
4	M1	228	SER	N-CA-C	5.71	118.54	109.24
8	O5	102	THR	CA-C-N	5.70	125.38	119.05
8	O5	102	THR	C-N-CA	5.70	125.38	119.05
4	M8	61	ASN	N-CA-C	5.70	117.30	111.14
8	i7	119	LEU	CA-C-N	5.70	130.22	122.19
8	i7	119	LEU	C-N-CA	5.70	130.22	122.19
8	U7	102	THR	CA-C-N	5.70	125.37	119.05
8	U7	102	THR	C-N-CA	5.70	125.37	119.05
4	MA	82	ILE	CB-CA-C	-5.70	104.70	111.65
4	M9	82	ILE	CB-CA-C	-5.70	104.70	111.65
10	k5	1120	PRO	CA-C-N	5.69	132.41	121.54
10	k5	1120	PRO	C-N-CA	5.69	132.41	121.54
11	a9	352	PRO	N-CA-C	5.69	124.19	112.47
11	aA	352	PRO	N-CA-C	5.69	124.19	112.47
4	MA	61	ASN	N-CA-C	5.69	117.28	111.14
10	k5	935	LEU	N-CA-C	-5.69	104.54	112.45
9	w7	51	VAL	N-CA-CB	5.69	118.63	111.46
4	M9	61	ASN	N-CA-C	5.69	117.28	111.14
4	M4	113	ILE	N-CA-C	5.68	116.46	110.72
4	MA	113	ILE	N-CA-C	5.68	116.46	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	k5	731	GLU	N-CA-CB	-5.68	101.25	109.83
10	j5	731	GLU	N-CA-CB	-5.68	101.25	109.83
11	a9	443	PHE	N-CA-C	5.68	117.55	111.36
9	z7	51	VAL	N-CA-CB	5.67	118.61	111.46
4	M8	82	ILE	CB-CA-C	-5.67	104.73	111.65
8	c7	119	LEU	CA-C-N	5.67	130.23	122.34
8	c7	119	LEU	C-N-CA	5.67	130.23	122.34
4	M4	61	ASN	N-CA-C	5.67	117.26	111.14
11	a9	487	ASP	CB-CA-C	-5.67	101.38	110.79
11	aA	487	ASP	CB-CA-C	-5.67	101.38	110.79
4	M3	113	ILE	N-CA-C	5.67	116.45	110.72
10	k5	1136	ILE	CB-CA-C	-5.67	104.45	111.08
8	I7	102	THR	CA-C-N	5.67	125.34	119.05
8	I7	102	THR	C-N-CA	5.67	125.34	119.05
8	s7	102	THR	CA-C-N	5.67	125.34	119.05
8	s7	102	THR	C-N-CA	5.67	125.34	119.05
4	M1	113	ILE	N-CA-C	5.67	116.45	110.72
10	j5	573	GLN	N-CA-CB	-5.67	101.56	110.46
8	g7	102	THR	CA-C-N	5.67	125.34	119.05
8	g7	102	THR	C-N-CA	5.67	125.34	119.05
10	k5	831	PHE	CB-CA-C	-5.67	101.22	110.85
11	aA	443	PHE	N-CA-C	5.67	117.53	111.36
4	M1	10	ARG	N-CA-C	-5.67	105.19	111.36
4	M8	10	ARG	N-CA-C	-5.66	105.19	111.36
8	a5	102	THR	CA-C-N	5.66	125.33	119.05
8	a5	102	THR	C-N-CA	5.66	125.33	119.05
10	j5	831	PHE	CB-CA-C	-5.66	101.23	110.85
4	M9	113	ILE	N-CA-C	5.66	116.43	110.72
10	k5	573	GLN	N-CA-CB	-5.65	101.59	110.46
4	M8	14	LEU	CA-C-N	5.65	131.41	122.94
4	M8	14	LEU	C-N-CA	5.65	131.41	122.94
4	M3	61	ASN	N-CA-C	5.65	117.24	111.14
4	M1	61	ASN	N-CA-C	5.65	117.24	111.14
10	j5	456	ILE	CA-C-O	-5.65	115.08	120.95
10	k5	456	ILE	CA-C-O	-5.64	115.08	120.95
4	M3	4	LEU	N-CA-CB	-5.64	102.29	110.36
8	M5	52	LYS	CA-C-N	-5.64	111.09	120.68
8	M5	52	LYS	C-N-CA	-5.64	111.09	120.68
8	C7	102	THR	CA-C-N	5.64	125.31	119.05
8	C7	102	THR	C-N-CA	5.64	125.31	119.05
1	J7	75	THR	CA-C-N	5.64	127.77	120.44
1	J7	75	THR	C-N-CA	5.64	127.77	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	a7	102	THR	CA-C-N	5.64	125.31	119.05
8	a7	102	THR	C-N-CA	5.64	125.31	119.05
4	M4	10	ARG	N-CA-C	-5.63	105.22	111.36
8	C5	102	THR	CA-C-N	5.63	125.31	119.05
8	C5	102	THR	C-N-CA	5.63	125.31	119.05
8	e5	102	THR	CA-C-N	5.63	125.31	119.05
8	e5	102	THR	C-N-CA	5.63	125.31	119.05
10	k5	40	VAL	CB-CA-C	-5.63	104.53	112.14
10	j5	763	SER	N-CA-C	5.63	118.35	111.82
4	M3	10	ARG	N-CA-C	-5.63	105.22	111.36
1	D7	75	THR	CA-C-N	5.63	127.76	120.44
1	D7	75	THR	C-N-CA	5.63	127.76	120.44
4	MA	10	ARG	N-CA-C	-5.63	105.22	111.36
4	M8	4	LEU	N-CA-CB	-5.63	102.31	110.36
4	M9	10	ARG	N-CA-C	-5.63	105.22	111.36
4	M4	14	LEU	CA-C-N	5.63	131.38	122.94
4	M4	14	LEU	C-N-CA	5.63	131.38	122.94
8	o7	51	VAL	CB-CA-C	-5.62	104.46	112.22
10	k5	296	VAL	N-CA-C	5.62	116.40	110.72
10	k5	471	PRO	CA-C-N	5.62	132.28	121.54
10	k5	471	PRO	C-N-CA	5.62	132.28	121.54
4	M1	4	LEU	N-CA-CB	-5.62	102.32	110.36
9	z7	5	PHE	CA-C-N	-5.62	114.86	123.07
9	z7	5	PHE	C-N-CA	-5.62	114.86	123.07
10	j5	296	VAL	N-CA-C	5.62	116.39	110.72
10	k5	1047	LYS	CA-C-N	5.62	132.51	122.06
10	k5	1047	LYS	C-N-CA	5.62	132.51	122.06
4	M3	196	TYR	CB-CA-C	-5.62	101.47	110.79
4	M3	82	ILE	CB-CA-C	-5.62	104.80	111.65
8	m7	102	THR	CA-C-N	5.62	125.28	119.05
8	m7	102	THR	C-N-CA	5.62	125.28	119.05
4	M1	82	ILE	CB-CA-C	-5.62	104.80	111.65
8	G5	64	ASP	N-CA-C	5.61	119.39	112.54
10	j5	471	PRO	CA-C-N	5.61	132.26	121.54
10	j5	471	PRO	C-N-CA	5.61	132.26	121.54
10	k5	641	ASP	N-CA-CB	-5.61	102.81	111.46
4	M4	82	ILE	CB-CA-C	-5.61	104.81	111.65
1	D5	8	VAL	N-CA-C	-5.61	105.64	111.58
8	I5	102	THR	CA-C-N	5.61	125.27	119.05
8	I5	102	THR	C-N-CA	5.61	125.27	119.05
10	j5	1047	LYS	CA-C-N	5.61	132.49	122.06
10	j5	1047	LYS	C-N-CA	5.61	132.49	122.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M1	196	TYR	CB-CA-C	-5.61	101.48	110.79
8	u7	51	VAL	CB-CA-C	-5.60	104.49	112.22
3	LA	115	GLU	CB-CA-C	-5.60	101.49	110.79
3	L9	115	GLU	CB-CA-C	-5.60	101.49	110.79
11	a9	547	LYS	N-CA-C	5.60	117.47	111.36
11	aA	547	LYS	N-CA-C	5.60	117.47	111.36
4	M3	14	LEU	CA-C-N	5.60	131.34	122.94
4	M3	14	LEU	C-N-CA	5.60	131.34	122.94
4	M1	14	LEU	CA-C-N	5.60	131.34	122.94
4	M1	14	LEU	C-N-CA	5.60	131.34	122.94
4	MA	4	LEU	N-CA-CB	-5.60	102.35	110.36
10	k5	763	SER	N-CA-C	5.60	118.32	111.82
9	w7	5	PHE	CA-C-N	-5.60	114.89	123.07
9	w7	5	PHE	C-N-CA	-5.60	114.89	123.07
4	M9	4	LEU	N-CA-CB	-5.60	102.35	110.36
10	j5	378	TYR	N-CA-C	5.60	117.46	111.36
10	k5	378	TYR	N-CA-C	5.60	117.46	111.36
10	j5	40	VAL	CB-CA-C	-5.59	104.59	112.14
10	j5	641	ASP	N-CA-CB	-5.59	102.84	111.46
10	k5	683	ARG	N-CA-C	5.59	120.24	113.41
4	M4	4	LEU	N-CA-CB	-5.59	102.36	110.36
10	j5	1002	ARG	N-CA-C	5.59	117.38	111.28
10	j5	1136	ILE	CB-CA-C	-5.59	104.54	111.08
11	a9	60	GLY	CA-C-O	-5.59	115.29	121.05
11	aA	60	GLY	CA-C-O	-5.59	115.29	121.05
10	j5	853	LEU	N-CA-C	-5.59	106.36	114.12
4	M9	257	GLN	CB-CA-C	-5.59	102.18	110.67
10	k5	1002	ARG	N-CA-C	5.58	117.37	111.28
11	a9	806	GLY	CA-C-N	-5.58	114.13	122.39
11	a9	806	GLY	C-N-CA	-5.58	114.13	122.39
11	aA	806	GLY	CA-C-N	-5.58	114.13	122.39
11	aA	806	GLY	C-N-CA	-5.58	114.13	122.39
4	MA	196	TYR	CB-CA-C	-5.58	101.53	110.79
10	k5	853	LEU	N-CA-C	-5.58	106.37	114.12
4	M9	196	TYR	CB-CA-C	-5.58	101.53	110.79
1	J5	8	VAL	N-CA-C	-5.58	105.67	111.58
4	MA	14	LEU	CA-C-N	5.57	131.30	122.94
4	MA	14	LEU	C-N-CA	5.57	131.30	122.94
4	M3	257	GLN	CB-CA-C	-5.57	102.20	110.67
10	j5	642	ARG	CB-CG-CD	-5.57	98.48	111.30
4	M8	196	TYR	CB-CA-C	-5.57	101.54	110.79
4	M9	14	LEU	CA-C-N	5.57	131.30	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M9	14	LEU	C-N-CA	5.57	131.30	122.94
4	M1	257	GLN	CB-CA-C	-5.57	102.20	110.67
10	j5	1005	LEU	CA-C-O	-5.57	114.31	120.38
4	M4	196	TYR	CB-CA-C	-5.57	101.55	110.79
4	MA	257	GLN	CB-CA-C	-5.57	102.21	110.67
10	j5	683	ARG	N-CA-C	5.57	120.20	113.41
8	A5	64	ASP	N-CA-C	5.56	119.33	112.54
8	E5	94	TYR	CA-C-N	5.56	126.15	119.98
8	E5	94	TYR	C-N-CA	5.56	126.15	119.98
4	M3	76	ALA	N-CA-C	-5.56	106.62	113.41
4	M1	76	ALA	N-CA-C	-5.56	106.62	113.41
4	M4	257	GLN	CB-CA-C	-5.56	102.22	110.67
4	M9	76	ALA	N-CA-C	-5.56	106.63	113.41
10	j5	679	LEU	CB-CA-C	-5.55	100.87	108.86
4	MA	76	ALA	N-CA-C	-5.54	106.65	113.41
10	j5	637	ARG	CA-C-N	5.54	125.52	120.03
10	j5	637	ARG	C-N-CA	5.54	125.52	120.03
9	w7	61	GLN	N-CA-C	5.54	117.32	111.28
10	j5	635	LEU	O-C-N	-5.54	116.79	123.27
4	M8	257	GLN	CB-CA-C	-5.54	102.25	110.67
10	k5	1005	LEU	CA-C-O	-5.54	114.34	120.38
10	j5	1010	GLY	CA-C-O	-5.54	110.94	120.57
8	E5	110	ILE	CG1-CB-CG2	-5.54	94.09	110.70
9	z7	52	LEU	N-CA-C	5.54	118.50	111.69
4	M3	250	THR	N-CA-C	5.53	122.59	110.80
8	K5	110	ILE	CG1-CB-CG2	-5.53	94.10	110.70
10	k5	249	SER	CA-C-N	5.53	131.26	121.80
10	k5	249	SER	C-N-CA	5.53	131.26	121.80
9	x7	28	PHE	N-CA-CB	-5.53	101.23	111.52
4	M1	250	THR	N-CA-C	5.53	122.59	110.80
9	z7	61	GLN	N-CA-C	5.53	117.31	111.28
11	aA	429	VAL	CB-CA-C	-5.53	104.89	111.97
10	j5	249	SER	CA-C-N	5.53	131.25	121.80
10	j5	249	SER	C-N-CA	5.53	131.25	121.80
4	M8	76	ALA	N-CA-C	-5.53	106.67	113.41
4	M8	250	THR	N-CA-C	5.53	122.58	110.80
4	MA	250	THR	N-CA-C	5.53	122.57	110.80
10	k5	342	LEU	N-CA-C	5.53	118.23	111.82
4	M9	250	THR	N-CA-C	5.53	122.57	110.80
10	k5	642	ARG	CB-CG-CD	-5.52	98.61	111.30
10	k5	679	LEU	CB-CA-C	-5.52	100.91	108.86
4	M4	76	ALA	N-CA-C	-5.52	106.68	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	k5	1010	GLY	CA-C-O	-5.52	110.97	120.57
11	a9	429	VAL	CB-CA-C	-5.52	104.91	111.97
10	k5	635	LEU	O-C-N	-5.52	116.82	123.27
11	a9	66	SER	N-CA-C	5.52	121.26	110.56
10	k5	1105	ILE	CB-CA-C	-5.51	104.80	112.02
9	y7	28	PHE	N-CA-CB	-5.51	101.26	111.52
10	j5	454	GLN	N-CA-C	5.51	121.88	113.61
9	w7	52	LEU	N-CA-C	5.51	118.47	111.69
11	a9	72	ASP	CA-C-N	5.51	131.62	121.70
11	a9	72	ASP	C-N-CA	5.51	131.62	121.70
11	aA	72	ASP	CA-C-N	5.51	131.62	121.70
11	aA	72	ASP	C-N-CA	5.51	131.62	121.70
3	FA	159	GLU	N-CA-CB	5.51	118.22	110.12
10	k5	881	VAL	CB-CA-C	-5.51	105.60	111.00
10	k5	1069	ARG	N-CA-C	5.51	115.83	108.23
11	a9	673	ASP	CA-CB-CG	5.51	118.11	112.60
11	aA	673	ASP	CA-CB-CG	5.51	118.11	112.60
11	a9	441	ARG	N-CA-C	5.50	117.36	111.36
11	aA	66	SER	N-CA-C	5.50	121.24	110.56
10	j5	878	GLU	CA-C-O	-5.50	115.03	120.70
8	K5	94	TYR	CA-C-N	5.50	126.08	119.98
8	K5	94	TYR	C-N-CA	5.50	126.08	119.98
10	j5	1105	ILE	CB-CA-C	-5.50	104.82	112.02
10	k5	878	GLU	CA-C-O	-5.50	115.04	120.70
10	j5	1069	ARG	N-CA-C	5.50	115.81	108.23
10	k5	454	GLN	N-CA-C	5.50	121.85	113.61
4	M4	250	THR	N-CA-C	5.49	122.50	110.80
10	j5	175	ASP	C-N-CD	-5.49	102.48	125.00
1	D7	76	ARG	CA-C-N	5.49	131.63	121.52
1	D7	76	ARG	C-N-CA	5.49	131.63	121.52
10	k5	175	ASP	C-N-CD	-5.49	102.49	125.00
4	MA	75	GLU	N-CA-C	5.49	119.61	113.02
10	j5	291	ASP	O-C-N	-5.49	114.89	121.64
10	k5	291	ASP	O-C-N	-5.49	114.89	121.64
4	M4	75	GLU	N-CA-C	5.49	119.60	113.02
10	k5	637	ARG	CA-C-N	5.49	125.46	120.03
10	k5	637	ARG	C-N-CA	5.49	125.46	120.03
11	a9	730	ASN	CA-CB-CG	5.48	118.08	112.60
11	aA	730	ASN	CA-CB-CG	5.48	118.08	112.60
10	j5	382	ILE	CB-CA-C	-5.48	95.09	111.05
10	j5	881	VAL	CB-CA-C	-5.48	105.63	111.00
10	k5	736	GLU	CB-CA-C	-5.48	99.51	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M9	75	GLU	N-CA-C	5.48	119.60	113.02
11	aA	441	ARG	N-CA-C	5.48	117.34	111.36
9	z5	44	ILE	CB-CA-C	-5.48	104.66	112.22
10	k5	382	ILE	CB-CA-C	-5.48	95.10	111.05
1	J7	76	ARG	CA-C-N	5.48	131.60	121.52
1	J7	76	ARG	C-N-CA	5.48	131.60	121.52
2	KA	21	ASN	N-CA-C	5.48	118.76	111.75
2	K9	21	ASN	N-CA-C	5.48	118.76	111.75
4	M8	102	VAL	N-CA-C	-5.47	105.04	110.62
9	i5	44	ILE	CB-CA-C	-5.47	104.67	112.22
10	j5	920	ARG	N-CA-CB	5.47	119.74	110.49
10	j5	825	ASN	N-CA-C	5.47	119.06	112.38
4	M3	75	GLU	N-CA-C	5.47	119.58	113.02
4	M1	75	GLU	N-CA-C	5.47	119.58	113.02
4	M8	159	CYS	N-CA-C	5.46	120.05	113.17
8	O5	20	PRO	CB-CA-C	-5.46	102.55	111.56
10	k5	535	PRO	CB-CA-C	-5.46	103.80	110.95
11	a9	266	ASN	OD1-CG-ND2	-5.46	117.14	122.60
11	aA	266	ASN	OD1-CG-ND2	-5.46	117.14	122.60
11	a9	266	ASN	CA-CB-CG	5.45	118.05	112.60
11	aA	266	ASN	CA-CB-CG	5.45	118.05	112.60
10	k5	386	ILE	CA-C-N	5.45	131.78	121.97
10	k5	386	ILE	C-N-CA	5.45	131.78	121.97
10	k5	575	ILE	CA-C-O	-5.45	115.39	121.17
10	k5	320	GLU	CB-CA-C	-5.44	101.76	110.79
4	M8	75	GLU	N-CA-C	5.44	119.55	113.02
11	aA	775	LYS	CA-C-N	-5.44	113.41	121.24
11	aA	775	LYS	C-N-CA	-5.44	113.41	121.24
10	k5	920	ARG	N-CA-CB	5.44	119.68	110.49
4	M3	159	CYS	N-CA-C	5.43	120.01	113.17
1	D7	67	ARG	N-CA-C	5.43	117.50	109.62
4	M1	159	CYS	N-CA-C	5.43	120.01	113.17
8	K5	133	MET	N-CA-C	-5.43	105.75	112.38
10	j5	320	GLU	CB-CA-C	-5.43	101.78	110.79
10	j5	342	LEU	N-CA-C	5.43	118.12	111.82
10	k5	775	VAL	CA-C-O	-5.43	115.42	121.23
10	j5	549	LYS	CA-C-N	5.42	132.04	121.41
10	j5	549	LYS	C-N-CA	5.42	132.04	121.41
10	j5	774	GLN	N-CA-C	-5.42	100.04	110.56
10	j5	775	VAL	CA-C-O	-5.42	115.43	121.23
4	MA	159	CYS	N-CA-C	5.42	120.00	113.17
4	M9	159	CYS	N-CA-C	5.42	120.00	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M3	91	VAL	O-C-N	-5.42	117.45	123.20
1	J7	67	ARG	N-CA-C	5.42	117.48	109.62
4	M1	91	VAL	O-C-N	-5.42	117.45	123.20
10	k5	774	GLN	N-CA-C	-5.42	100.05	110.56
10	k5	825	ASN	N-CA-C	5.42	118.99	112.38
10	j5	386	ILE	CA-C-N	5.42	131.72	121.97
10	j5	386	ILE	C-N-CA	5.42	131.72	121.97
10	j5	535	PRO	CB-CA-C	-5.42	103.85	110.95
10	j5	406	ILE	N-CA-C	5.42	117.86	111.09
4	M4	159	CYS	N-CA-C	5.41	119.99	113.17
10	k5	549	LYS	CA-C-N	5.41	132.02	121.41
10	k5	549	LYS	C-N-CA	5.41	132.02	121.41
11	a9	775	LYS	CA-C-N	-5.41	113.44	121.24
11	a9	775	LYS	C-N-CA	-5.41	113.44	121.24
10	j5	507	ARG	N-CA-C	5.41	118.29	110.28
11	a9	283	GLN	C-N-CD	-5.41	102.82	125.00
11	aA	283	GLN	C-N-CD	-5.41	102.82	125.00
10	j5	571	ALA	CA-C-O	-5.41	115.13	120.70
8	O7	18	LEU	O-C-N	-5.41	116.43	122.75
10	k5	346	GLU	N-CA-CB	-5.40	102.15	110.42
10	k5	406	ILE	N-CA-C	5.40	117.84	111.09
8	s7	102	THR	N-CA-C	5.40	121.75	109.81
4	M8	91	VAL	O-C-N	-5.40	117.47	123.20
10	k5	1007	VAL	N-CA-C	5.40	120.57	109.34
8	u7	159	ALA	CA-C-N	5.40	127.77	120.38
8	u7	159	ALA	C-N-CA	5.40	127.77	120.38
8	m7	102	THR	N-CA-C	5.39	121.73	109.81
10	j5	700	SER	N-CA-C	5.39	118.08	111.82
10	j5	1007	VAL	N-CA-C	5.39	120.56	109.34
10	k5	507	ARG	N-CA-C	5.39	118.26	110.28
10	k5	700	SER	N-CA-C	5.39	118.07	111.82
10	j5	575	ILE	CA-C-O	-5.39	115.46	121.17
10	k5	894	TYR	CA-C-O	-5.39	113.62	118.79
8	U7	102	THR	N-CA-C	5.39	121.72	109.81
11	a9	548	LEU	N-CA-C	5.39	119.72	113.20
11	aA	548	LEU	N-CA-C	5.39	119.72	113.20
8	s7	22	GLU	N-CA-C	-5.38	106.78	113.19
10	k5	547	ARG	CA-C-O	-5.38	114.85	120.55
10	k5	701	ASP	CB-CA-C	-5.38	101.86	110.79
8	o7	159	ALA	CA-C-N	5.38	127.75	120.38
8	o7	159	ALA	C-N-CA	5.38	127.75	120.38
8	O5	102	THR	N-CA-C	5.38	121.70	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	O7	102	THR	N-CA-C	5.38	121.69	109.81
3	FA	159	GLU	CB-CG-CD	5.38	121.74	112.60
10	k5	1011	ILE	CG1-CB-CG2	-5.38	94.57	110.70
10	j5	701	ASP	CB-CA-C	-5.37	101.87	110.79
10	j5	1011	ILE	CG1-CB-CG2	-5.37	94.58	110.70
10	k5	571	ALA	CA-C-O	-5.37	115.17	120.70
3	LA	113	LEU	N-CA-C	5.37	117.21	111.36
3	L9	113	LEU	N-CA-C	5.37	117.21	111.36
8	I5	102	THR	N-CA-C	5.37	121.67	109.81
10	j5	894	TYR	CA-C-O	-5.37	113.64	118.79
8	C5	102	THR	N-CA-C	5.36	121.67	109.81
8	a5	102	THR	N-CA-C	5.36	121.66	109.81
8	e5	102	THR	N-CA-C	5.36	121.66	109.81
8	U5	102	THR	N-CA-C	5.36	121.66	109.81
10	j5	989	THR	N-CA-CB	5.36	119.55	110.49
10	j5	547	ARG	CA-C-O	-5.35	114.88	120.55
10	k5	385	PRO	CA-C-N	-5.35	112.34	121.97
10	k5	385	PRO	C-N-CA	-5.35	112.34	121.97
10	k5	989	THR	N-CA-CB	5.35	119.53	110.49
8	C7	102	THR	N-CA-C	5.35	121.64	109.81
10	j5	385	PRO	CA-C-N	-5.35	112.34	121.97
10	j5	385	PRO	C-N-CA	-5.35	112.34	121.97
8	a7	102	THR	N-CA-C	5.35	121.63	109.81
4	MA	91	VAL	O-C-N	-5.35	117.53	123.20
9	z5	21	ARG	CA-CB-CG	-5.35	103.41	114.10
10	k5	812	SER	CA-C-O	-5.35	114.94	121.36
4	M9	91	VAL	O-C-N	-5.35	117.53	123.20
8	G5	48	GLU	N-CA-C	5.34	117.19	111.36
9	i5	21	ARG	CA-CB-CG	-5.34	103.41	114.10
10	j5	719	MET	CB-CA-C	-5.34	101.77	110.85
10	j5	812	SER	CA-C-O	-5.34	114.95	121.36
8	g7	102	THR	N-CA-C	5.34	121.61	109.81
3	LA	110	LEU	N-CA-C	-5.34	105.87	112.38
10	k5	482	GLN	CA-C-N	-5.34	113.66	121.99
10	k5	482	GLN	C-N-CA	-5.34	113.66	121.99
3	L9	110	LEU	N-CA-C	-5.34	105.87	112.38
11	a9	373	PRO	CB-CA-C	-5.34	101.76	110.25
11	aA	373	PRO	CB-CA-C	-5.34	101.76	110.25
10	j5	346	GLU	N-CA-CB	-5.34	102.25	110.42
10	j5	482	GLN	CA-C-N	-5.33	113.67	121.99
10	j5	482	GLN	C-N-CA	-5.33	113.67	121.99
10	j5	968	GLU	N-CA-C	5.33	118.89	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	I7	102	THR	N-CA-C	5.33	121.59	109.81
11	a9	277	GLY	N-CA-C	5.33	119.59	112.77
11	aA	277	GLY	N-CA-C	5.33	119.59	112.77
10	j5	1032	VAL	N-CA-C	5.32	118.52	111.17
10	k5	719	MET	CB-CA-C	-5.32	101.81	110.85
10	k5	1032	VAL	N-CA-C	5.31	118.50	111.17
10	k5	215	LYS	CA-C-N	5.31	129.89	122.08
10	k5	215	LYS	C-N-CA	5.31	129.89	122.08
10	j5	666	ASN	N-CA-C	5.31	119.45	112.92
10	k5	968	GLU	N-CA-C	5.31	118.86	112.38
4	MA	92	GLU	N-CA-C	5.31	118.05	109.40
8	A5	48	GLU	N-CA-C	5.31	117.14	111.36
10	k5	6	THR	CB-CA-C	-5.31	97.78	109.56
4	M9	92	GLU	N-CA-C	5.31	118.05	109.40
3	Y4	104	VAL	N-CA-C	-5.31	107.58	112.83
11	aA	341	LYS	CA-C-N	5.30	131.66	121.54
11	aA	341	LYS	C-N-CA	5.30	131.66	121.54
10	j5	6	THR	CB-CA-C	-5.30	97.79	109.56
11	a9	341	LYS	CA-C-N	5.30	131.66	121.54
11	a9	341	LYS	C-N-CA	5.30	131.66	121.54
4	M9	12	GLY	CA-C-O	5.30	126.74	121.60
10	j5	1001	TYR	CA-C-O	-5.29	115.26	120.82
10	j5	680	PRO	CB-CA-C	-5.29	104.46	111.23
10	k5	864	GLY	CA-C-N	5.29	127.80	120.29
10	k5	864	GLY	C-N-CA	5.29	127.80	120.29
9	w7	41	GLN	N-CA-C	-5.29	105.59	111.36
4	M8	12	GLY	CA-C-O	5.29	126.73	121.60
10	k5	733	SER	N-CA-C	5.29	119.88	113.38
10	j5	351	PHE	CA-C-N	5.29	129.69	122.34
10	j5	351	PHE	C-N-CA	5.29	129.69	122.34
11	a9	439	ARG	CB-CA-C	-5.29	102.02	110.79
11	aA	439	ARG	CB-CA-C	-5.29	102.02	110.79
10	j5	548	SER	N-CA-CB	5.28	119.42	110.49
4	M1	92	GLU	N-CA-C	5.28	118.01	109.40
10	k5	553	GLN	N-CA-C	5.28	117.72	111.33
10	k5	351	PHE	CA-C-N	5.28	129.68	122.34
10	k5	351	PHE	C-N-CA	5.28	129.68	122.34
10	k5	548	SER	N-CA-CB	5.28	119.42	110.49
10	k5	680	PRO	CB-CA-C	-5.28	104.47	111.23
9	z7	41	GLN	N-CA-C	-5.28	105.60	111.36
10	j5	643	VAL	CA-C-N	5.28	127.79	120.29
10	j5	643	VAL	C-N-CA	5.28	127.79	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	a9	414	ALA	O-C-N	5.27	127.78	122.09
11	a9	513	GLN	CB-CA-C	-5.27	99.89	109.38
11	aA	414	ALA	O-C-N	5.27	127.78	122.09
11	aA	513	GLN	CB-CA-C	-5.27	99.89	109.38
10	j5	215	LYS	CA-C-N	5.27	129.83	122.08
10	j5	215	LYS	C-N-CA	5.27	129.83	122.08
10	k5	546	PHE	CB-CA-C	5.27	120.20	112.09
2	U1	44	LEU	O-C-N	5.27	127.71	122.12
10	j5	29	ASN	CB-CA-C	-5.27	102.05	110.79
10	j5	733	SER	N-CA-C	5.27	119.86	113.38
10	k5	29	ASN	CB-CA-C	-5.27	102.05	110.79
10	k5	666	ASN	N-CA-C	5.26	119.40	112.92
10	k5	1001	TYR	CA-C-O	-5.26	115.29	120.82
10	k5	550	GLY	N-CA-C	-5.26	100.71	113.18
4	M3	92	GLU	N-CA-C	5.26	117.98	109.40
10	j5	553	GLN	N-CA-C	5.26	117.69	111.33
4	MA	12	GLY	CA-C-O	5.26	126.70	121.60
10	j5	546	PHE	CB-CA-C	5.26	120.19	112.09
8	G5	60	GLN	CB-CA-C	-5.25	100.05	109.24
4	M8	32	SER	N-CA-C	5.25	116.94	108.32
10	j5	550	GLY	N-CA-C	-5.25	100.74	113.18
9	i5	44	ILE	CA-C-O	-5.25	115.29	120.85
1	h7	38	VAL	N-CA-C	5.25	116.02	110.72
4	M4	12	GLY	CA-C-O	5.25	126.69	121.60
10	j5	864	GLY	CA-C-N	5.25	127.74	120.29
10	j5	864	GLY	C-N-CA	5.25	127.74	120.29
10	k5	643	VAL	CA-C-N	5.25	127.74	120.29
10	k5	643	VAL	C-N-CA	5.25	127.74	120.29
8	K5	96	ILE	CG1-CB-CG2	-5.25	94.97	110.70
10	k5	245	ILE	CB-CA-C	-5.24	103.52	111.33
10	j5	703	LEU	N-CA-CB	-5.24	101.72	110.37
10	k5	946	ASP	CB-CA-C	-5.24	100.02	111.71
2	N8	111	ALA	N-CA-C	5.24	121.97	110.80
4	M4	32	SER	N-CA-C	5.24	116.91	108.32
8	A5	60	GLN	CB-CA-C	-5.24	100.07	109.24
10	k5	703	LEU	N-CA-CB	-5.24	101.73	110.37
10	k5	1112	PRO	N-CA-C	5.24	119.53	111.21
4	M9	32	SER	N-CA-C	5.24	116.91	108.32
11	a9	316	GLY	CA-C-O	-5.24	115.36	120.75
1	b7	38	VAL	N-CA-C	5.23	116.01	110.72
6	M2	56	PRO	CA-C-N	5.23	131.54	121.54
6	M2	56	PRO	C-N-CA	5.23	131.54	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	E5	108	GLY	CA-C-N	-5.23	114.55	122.76
8	E5	108	GLY	C-N-CA	-5.23	114.55	122.76
9	z5	44	ILE	CA-C-O	-5.23	115.30	120.85
10	k5	415	PHE	CB-CA-C	-5.23	102.54	111.02
8	K5	108	GLY	CA-C-N	-5.23	114.55	122.76
8	K5	108	GLY	C-N-CA	-5.23	114.55	122.76
11	aA	637	PRO	CA-C-O	5.23	127.04	120.92
4	M4	130	SER	N-CA-C	-5.23	105.48	111.07
10	j5	245	ILE	CB-CA-C	-5.22	103.55	111.33
10	j5	946	ASP	CB-CA-C	-5.22	100.06	111.71
10	j5	1112	PRO	N-CA-C	5.22	119.52	111.21
10	k5	692	LEU	CB-CA-C	-5.22	100.10	109.24
11	a9	453	GLU	CB-CA-C	-5.22	102.68	110.88
11	aA	453	GLU	CB-CA-C	-5.22	102.68	110.88
11	aA	618	PRO	N-CA-C	5.22	123.23	112.47
10	j5	415	PHE	CB-CA-C	-5.22	102.56	111.02
4	M3	32	SER	N-CA-C	5.22	116.88	108.32
4	M1	32	SER	N-CA-C	5.22	116.88	108.32
10	k5	74	ARG	N-CA-C	5.22	119.27	113.01
11	a9	618	PRO	N-CA-C	5.22	123.22	112.47
6	M6	56	PRO	CA-C-N	5.21	131.50	121.54
6	M6	56	PRO	C-N-CA	5.21	131.50	121.54
8	E5	116	TYR	CA-C-O	-5.21	115.33	120.70
4	M8	99	VAL	N-CA-C	-5.21	98.50	109.34
4	MA	32	SER	N-CA-C	5.21	116.86	108.32
8	E5	96	ILE	CG1-CB-CG2	-5.21	95.07	110.70
11	a9	637	PRO	CA-C-O	5.21	127.01	120.92
11	a9	817	LEU	CA-C-N	-5.21	113.67	120.44
11	a9	817	LEU	C-N-CA	-5.21	113.67	120.44
11	aA	817	LEU	CA-C-N	-5.21	113.67	120.44
11	aA	817	LEU	C-N-CA	-5.21	113.67	120.44
11	aA	316	GLY	CA-C-O	-5.21	115.39	120.75
4	M8	130	SER	N-CA-C	-5.21	105.50	111.07
10	j5	692	LEU	CB-CA-C	-5.20	100.14	109.24
10	j5	389	GLY	N-CA-C	5.20	125.51	113.18
10	k5	994	ASP	N-CA-C	5.20	116.95	111.28
10	k5	462	TYR	CB-CA-C	-5.20	100.69	110.67
10	j5	74	ARG	N-CA-C	5.19	119.24	113.01
10	j5	462	TYR	CB-CA-C	-5.19	100.70	110.67
10	j5	994	ASP	N-CA-C	5.19	116.94	111.28
11	aA	37	GLY	CA-C-N	5.19	131.73	122.13
11	aA	37	GLY	C-N-CA	5.19	131.73	122.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	j5	488	LYS	CA-C-N	5.19	127.66	120.29
10	j5	488	LYS	C-N-CA	5.19	127.66	120.29
3	B4	111	ASN	N-CA-C	-5.19	105.71	111.36
10	j5	645	ASN	CB-CA-C	-5.18	102.03	110.85
10	k5	389	GLY	N-CA-C	5.18	125.47	113.18
4	M8	3	VAL	O-C-N	5.18	128.64	122.83
8	K5	116	TYR	CA-C-O	-5.18	115.36	120.70
10	j5	756	SER	N-CA-C	5.18	119.47	113.20
4	M3	210	ILE	N-CA-C	5.18	115.91	110.62
10	k5	944	ALA	N-CA-C	5.18	116.93	111.28
4	M1	210	ILE	N-CA-C	5.18	115.91	110.62
11	a9	37	GLY	CA-C-N	5.18	131.71	122.13
11	a9	37	GLY	C-N-CA	5.18	131.71	122.13
9	z5	66	GLY	CA-C-O	5.18	124.87	119.07
4	MA	130	SER	N-CA-C	-5.17	105.53	111.07
10	k5	645	ASN	CB-CA-C	-5.17	102.06	110.85
9	y7	64	ASN	N-CA-C	5.17	121.82	110.80
4	M9	130	SER	N-CA-C	-5.17	105.53	111.07
9	x7	64	ASN	N-CA-C	5.17	121.82	110.80
8	A5	61	ILE	CB-CG1-CD1	5.17	124.66	113.80
11	a9	290	ASP	N-CA-C	-5.17	99.96	108.49
11	aA	290	ASP	N-CA-C	-5.17	99.96	108.49
4	M3	130	SER	N-CA-C	-5.17	105.54	111.07
8	G5	61	ILE	CB-CG1-CD1	5.17	124.66	113.80
10	j5	881	VAL	N-CA-CB	-5.17	104.67	109.99
10	k5	881	VAL	N-CA-CB	-5.17	104.67	109.99
4	M9	210	ILE	N-CA-C	5.17	115.89	110.62
4	M1	130	SER	N-CA-C	-5.17	105.54	111.07
10	k5	902	ASN	N-CA-C	5.17	119.76	111.81
10	k5	193	SER	N-CA-C	5.16	119.32	112.30
11	aA	561	ALA	N-CA-C	-5.16	99.81	110.80
10	j5	976	ARG	N-CA-CB	5.16	118.81	110.40
4	M8	42	SER	N-CA-C	-5.16	99.88	108.34
10	j5	193	SER	N-CA-C	5.16	119.32	112.30
10	j5	855	GLY	N-CA-C	-5.16	106.17	112.77
10	j5	944	ALA	N-CA-C	5.16	116.90	111.28
4	M8	187	HIS	N-CA-C	5.16	116.98	111.36
11	a9	561	ALA	N-CA-C	-5.16	99.82	110.80
10	j5	1129	ARG	N-CA-C	5.15	116.98	111.36
4	M8	101	ASP	N-CA-C	-5.15	105.57	111.14
11	a9	371	VAL	N-CA-C	5.15	120.06	109.34
4	MA	42	SER	N-CA-C	-5.15	99.89	108.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M4	42	SER	N-CA-C	-5.15	99.89	108.34
10	j5	29	ASN	N-CA-C	5.15	116.90	111.28
10	j5	902	ASN	N-CA-C	5.15	119.75	111.81
4	M9	42	SER	N-CA-C	-5.15	99.89	108.34
9	i5	66	GLY	CA-C-O	5.15	124.84	119.07
3	F9	140	GLY	O-C-N	-5.15	116.00	122.70
4	MA	27	HIS	O-C-N	-5.15	117.38	123.25
4	M9	27	HIS	O-C-N	-5.15	117.38	123.25
10	j5	709	ILE	CB-CA-C	-5.15	103.93	110.98
4	M3	42	SER	N-CA-C	-5.14	99.90	108.34
1	D5	16	GLY	N-CA-C	-5.14	108.18	115.43
4	M3	12	GLY	CA-C-O	5.14	126.59	121.60
4	M4	210	ILE	N-CA-C	5.14	115.86	110.62
10	k5	488	LYS	CA-C-N	5.14	127.59	120.29
10	k5	488	LYS	C-N-CA	5.14	127.59	120.29
4	M1	12	GLY	CA-C-O	5.14	126.59	121.60
4	MA	187	HIS	N-CA-C	5.14	116.96	111.36
10	k5	1129	ARG	N-CA-C	5.14	116.96	111.36
8	u7	159	ALA	O-C-N	5.14	127.64	122.09
4	M9	187	HIS	N-CA-C	5.14	116.96	111.36
3	FA	140	GLY	O-C-N	-5.14	116.02	122.70
4	MA	210	ILE	N-CA-C	5.14	115.86	110.62
10	k5	63	ASN	N-CA-C	-5.14	102.50	109.54
10	k5	756	SER	N-CA-C	5.14	119.42	113.20
11	aA	371	VAL	N-CA-C	5.14	120.03	109.34
4	M4	27	HIS	O-C-N	-5.14	117.39	123.25
10	k5	467	PRO	CA-C-O	-5.14	115.37	122.15
10	k5	625	LYS	CG-CD-CE	-5.14	99.49	111.30
4	M8	89	LEU	N-CA-C	-5.14	100.80	109.07
4	M4	187	HIS	N-CA-C	5.13	116.96	111.36
10	j5	63	ASN	N-CA-C	-5.13	102.50	109.54
10	j5	80	SER	CA-C-N	5.13	124.45	118.85
10	j5	80	SER	C-N-CA	5.13	124.45	118.85
10	j5	545	GLY	CA-C-O	-5.13	113.32	119.02
10	k5	80	SER	CA-C-N	5.13	124.45	118.85
10	k5	80	SER	C-N-CA	5.13	124.45	118.85
10	j5	58	ALA	O-C-N	5.13	127.36	122.07
4	MA	169	ASN	CB-CA-C	-5.13	102.27	110.79
4	M4	3	VAL	O-C-N	5.13	128.58	122.83
4	M4	169	ASN	CB-CA-C	-5.13	102.27	110.79
4	M8	27	HIS	O-C-N	-5.13	117.40	123.25
4	M8	169	ASN	CB-CA-C	-5.13	102.27	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M9	169	ASN	CB-CA-C	-5.13	102.27	110.79
11	a9	315	LEU	N-CA-C	-5.13	105.69	111.28
11	aA	315	LEU	N-CA-C	-5.13	105.69	111.28
4	M1	42	SER	N-CA-C	-5.13	99.93	108.34
4	M1	89	LEU	N-CA-C	-5.13	100.81	109.07
10	k5	58	ALA	O-C-N	5.13	127.35	122.07
4	M3	169	ASN	CB-CA-C	-5.13	102.28	110.79
10	j5	736	GLU	CB-CA-C	-5.13	100.21	110.42
10	k5	345	ARG	N-CA-C	5.13	117.77	111.82
4	M1	169	ASN	CB-CA-C	-5.13	102.28	110.79
4	MA	89	LEU	N-CA-C	-5.13	100.82	109.07
8	o7	159	ALA	O-C-N	5.13	127.63	122.09
4	M9	89	LEU	N-CA-C	-5.13	100.82	109.07
4	M3	3	VAL	O-C-N	5.12	128.57	122.83
10	j5	1154	THR	N-CA-C	5.12	117.66	110.23
10	k5	29	ASN	N-CA-C	5.12	116.86	111.28
10	k5	1154	THR	N-CA-C	5.12	117.66	110.23
4	M1	3	VAL	O-C-N	5.12	128.57	122.83
4	M3	27	HIS	O-C-N	-5.12	117.41	123.25
4	M3	187	HIS	N-CA-C	5.12	116.94	111.36
9	z5	41	GLN	CB-CA-C	-5.12	102.84	110.88
10	k5	1004	VAL	CB-CA-C	-5.12	105.31	112.02
9	x7	56	LEU	CA-CB-CG	-5.12	98.38	116.30
4	M1	27	HIS	O-C-N	-5.12	117.41	123.25
4	M1	187	HIS	N-CA-C	5.12	116.94	111.36
4	M3	89	LEU	N-CA-C	-5.12	100.83	109.07
4	M4	89	LEU	N-CA-C	-5.12	100.83	109.07
9	i5	41	GLN	CB-CA-C	-5.12	102.84	110.88
10	k5	855	GLY	N-CA-C	-5.12	106.22	112.77
10	k5	976	ARG	N-CA-CB	5.12	118.74	110.40
8	e5	7	ALA	CB-CA-C	-5.11	101.41	109.34
9	y7	56	LEU	CA-CB-CG	-5.11	98.40	116.30
11	a9	504	VAL	CA-C-N	5.11	125.03	119.76
11	a9	504	VAL	C-N-CA	5.11	125.03	119.76
11	aA	504	VAL	CA-C-N	5.11	125.03	119.76
11	aA	504	VAL	C-N-CA	5.11	125.03	119.76
10	j5	467	PRO	CA-C-O	-5.11	115.40	122.15
10	j5	625	LYS	CG-CD-CE	-5.11	99.54	111.30
10	j5	586	LEU	CA-CB-CG	5.11	134.19	116.30
1	J5	16	GLY	N-CA-C	-5.11	108.23	115.43
10	j5	345	ARG	N-CA-C	5.11	117.75	111.82
10	j5	603	PHE	N-CA-C	-5.11	105.79	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	j5	1004	VAL	CB-CA-C	-5.11	105.33	112.02
11	a9	364	THR	CA-C-N	5.11	127.54	120.29
11	a9	364	THR	C-N-CA	5.11	127.54	120.29
11	aA	364	THR	CA-C-N	5.11	127.54	120.29
11	aA	364	THR	C-N-CA	5.11	127.54	120.29
7	N2	37	SER	N-CA-C	5.10	117.50	109.39
4	MA	3	VAL	O-C-N	5.10	128.54	122.83
10	k5	709	ILE	CB-CA-C	-5.10	103.99	110.98
4	M9	3	VAL	O-C-N	5.10	128.54	122.83
8	a5	7	ALA	CB-CA-C	-5.10	101.44	109.34
10	k5	461	ASP	N-CA-C	5.10	117.57	111.71
11	aA	85	ALA	CA-C-O	-5.09	115.26	121.88
10	j5	461	ASP	N-CA-C	5.09	117.56	111.71
10	k5	1143	LEU	CA-CB-CG	-5.09	98.48	116.30
10	k5	586	LEU	CA-CB-CG	5.09	134.11	116.30
10	k5	518	ASN	CA-C-O	-5.09	113.34	119.49
3	F9	146	SER	N-CA-C	5.09	117.05	108.96
7	N6	37	SER	N-CA-C	5.08	117.47	109.39
10	k5	545	GLY	CA-C-O	-5.08	113.38	119.02
4	M3	48	PRO	CA-C-O	-5.08	115.58	122.08
4	M1	48	PRO	CA-C-O	-5.08	115.58	122.08
10	j5	1143	LEU	CA-CB-CG	-5.08	98.52	116.30
3	L9	85	ASP	CB-CA-C	-5.08	102.91	110.88
10	k5	222	LEU	N-CA-C	5.08	116.50	111.07
11	a9	498	VAL	CB-CA-C	-5.08	105.54	111.94
11	aA	498	VAL	CB-CA-C	-5.08	105.54	111.94
10	k5	603	PHE	N-CA-C	-5.07	105.84	112.23
11	a9	526	GLN	CB-CA-C	-5.07	102.23	110.85
11	aA	526	GLN	CB-CA-C	-5.07	102.23	110.85
10	j5	349	GLN	N-CA-C	5.07	120.36	113.16
4	M4	48	PRO	CA-C-O	-5.07	115.59	122.08
9	z7	41	GLN	CA-CB-CG	5.07	124.24	114.10
3	LA	85	ASP	CB-CA-C	-5.07	102.93	110.88
3	L2	77	ARG	N-CA-C	-5.07	105.76	111.28
10	k5	176	PRO	N-CA-C	-5.07	108.12	114.20
10	k5	349	GLN	N-CA-C	5.07	120.35	113.16
9	z7	21	ARG	N-CA-CB	5.07	119.05	110.49
9	z7	33	PRO	CB-CA-C	-5.07	104.58	111.12
9	w7	21	ARG	N-CA-CB	5.06	119.04	110.49
10	j5	987	ASP	N-CA-CB	-5.06	104.36	110.53
10	k5	985	ALA	CA-C-N	5.06	126.16	119.84
10	k5	985	ALA	C-N-CA	5.06	126.16	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	w7	33	PRO	CB-CA-C	-5.06	104.59	111.12
10	j5	222	LEU	N-CA-C	5.05	116.48	111.07
9	w7	41	GLN	CA-CB-CG	5.05	124.21	114.10
10	j5	649	PHE	CA-C-O	-5.05	115.20	120.55
4	M8	48	PRO	CA-C-O	-5.05	115.62	122.08
11	aA	496	ARG	N-CA-C	5.05	116.86	111.36
10	j5	718	MET	CA-C-O	-5.05	115.20	120.55
10	j5	634	LEU	N-CA-C	5.04	119.51	112.90
4	MA	48	PRO	CA-C-O	-5.04	115.62	122.08
10	j5	176	PRO	N-CA-C	-5.04	108.15	114.20
4	M9	48	PRO	CA-C-O	-5.04	115.62	122.08
10	k5	987	ASP	N-CA-CB	-5.04	104.38	110.53
10	j5	599	THR	N-CA-C	5.03	117.64	109.79
11	a9	824	VAL	N-CA-C	-5.03	96.91	111.00
10	j5	518	ASN	CA-C-O	-5.03	113.41	119.49
4	MA	172	HIS	N-CA-C	5.03	116.61	111.03
10	j5	985	ALA	CA-C-N	5.03	126.12	119.84
10	j5	985	ALA	C-N-CA	5.03	126.12	119.84
10	j5	1148	THR	N-CA-C	5.03	123.34	113.29
4	M9	172	HIS	N-CA-C	5.03	116.61	111.03
10	k5	925	ILE	N-CA-C	5.02	119.53	113.00
11	a9	496	ARG	N-CA-C	5.02	116.84	111.36
10	k5	260	TYR	N-CA-C	5.02	117.48	111.71
10	k5	1148	THR	N-CA-C	5.02	123.33	113.29
10	j5	704	THR	OG1-CB-CG2	-5.02	99.26	109.30
10	j5	1047	LYS	N-CA-C	5.02	116.44	111.07
10	k5	704	THR	OG1-CB-CG2	-5.01	99.27	109.30
10	k5	634	LEU	N-CA-C	5.01	119.47	112.90
11	a9	798	SER	O-C-N	5.01	129.13	123.27
11	aA	798	SER	O-C-N	5.01	129.13	123.27
10	k5	649	PHE	CA-C-O	-5.01	115.24	120.55
10	k5	778	LYS	CD-CE-NZ	-5.01	95.88	111.90
10	k5	1047	LYS	N-CA-C	5.00	116.42	111.07

There are no chirality outliers.

All (143) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	D5	6	THR	Mainchain
8	E7	79	ALA	Mainchain
1	J5	6	THR	Mainchain
8	K7	79	ALA	Mainchain

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Mol	Chain	Res	Type	Group
3	L9	109	CYS	Mainchain
3	LA	109	CYS	Mainchain
4	M1	20	THR	Mainchain
4	M1	228	SER	Mainchain
6	M2	269	ILE	Peptide
6	M2	279	ASP	Peptide
6	M2	280	ALA	Peptide
6	M2	37	GLU	Peptide
6	M2	58	GLY	Peptide
4	M3	20	THR	Mainchain
4	M3	228	SER	Mainchain
4	M4	20	THR	Mainchain
4	M4	228	SER	Mainchain
6	M6	269	ILE	Peptide
6	M6	279	ASP	Peptide
6	M6	280	ALA	Peptide
6	M6	37	GLU	Peptide
6	M6	58	GLY	Peptide
4	M8	20	THR	Mainchain
4	M8	228	SER	Mainchain
4	M9	20	THR	Mainchain
4	M9	228	SER	Mainchain
4	MA	20	THR	Mainchain
4	MA	228	SER	Mainchain
7	N2	26	ALA	Peptide
7	N6	26	ALA	Peptide
8	O5	19	SER	Mainchain
3	Q4	78	ARG	Sidechain
3	Q4	84	ARG	Sidechain
3	Q4	91	ARG	Sidechain
8	Q5	79	ALA	Mainchain
8	Q7	79	ALA	Mainchain
3	Q8	108	ARG	Sidechain
8	U7	18	LEU	Mainchain
8	W5	79	ALA	Mainchain
8	W7	79	ALA	Mainchain
5	Z4	23	SER	Mainchain
5	Z4	34	LEU	Mainchain
8	a5	23	LEU	Mainchain
8	a5	25	ARG	Sidechain
8	a5	6	LYS	Mainchain
11	a9	157	ARG	Sidechain

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Mol	Chain	Res	Type	Group
11	a9	354	VAL	Peptide,Mainchain
11	a9	372	ALA	Peptide
11	a9	554	ARG	Sidechain
11	a9	559	THR	Mainchain
11	a9	595	ARG	Peptide
11	a9	596	THR	Peptide
11	a9	598	SER	Peptide
11	a9	599	PRO	Mainchain
11	a9	603	THR	Peptide
11	a9	604	ALA	Peptide
11	a9	636	ALA	Peptide
11	a9	64	ARG	Sidechain
11	a9	72	ASP	Peptide
11	a9	741	TYR	Sidechain
11	aA	157	ARG	Sidechain
11	aA	295	ARG	Sidechain
11	aA	354	VAL	Peptide,Mainchain
11	aA	372	ALA	Peptide
11	aA	554	ARG	Sidechain
11	aA	559	THR	Mainchain
11	aA	595	ARG	Peptide
11	aA	596	THR	Peptide
11	aA	598	SER	Peptide
11	aA	599	PRO	Mainchain
11	aA	603	THR	Peptide
11	aA	604	ALA	Peptide
11	aA	636	ALA	Peptide
11	aA	64	ARG	Sidechain
11	aA	72	ASP	Peptide
11	aA	741	TYR	Sidechain
8	c7	112	VAL	Mainchain
8	c7	125	ALA	Mainchain
8	c7	79	ALA	Mainchain
8	e5	23	LEU	Mainchain
8	e5	25	ARG	Sidechain
8	e5	6	LYS	Mainchain
9	i5	33	PRO	Mainchain
8	i7	112	VAL	Mainchain
8	i7	125	ALA	Mainchain
8	i7	79	ALA	Mainchain
10	j5	1026	LYS	Mainchain
10	j5	1031	SER	Mainchain

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Mol	Chain	Res	Type	Group
10	j5	1055	SER	Mainchain
10	j5	1077	ILE	Mainchain
10	j5	1139	SER	Mainchain
10	j5	137	PRO	Peptide
10	j5	284	PRO	Peptide
10	j5	289	SER	Mainchain
10	j5	291	ASP	Mainchain
10	j5	518	ASN	Mainchain
10	j5	543	ASN	Mainchain
10	j5	571	ALA	Mainchain
10	j5	615	LYS	Mainchain
10	j5	695	GLY	Mainchain
10	j5	743	VAL	Peptide
10	j5	765	ASP	Mainchain
10	j5	812	SER	Mainchain
10	j5	824	PRO	Mainchain
10	j5	832	ALA	Mainchain
10	j5	846	GLU	Mainchain
10	j5	847	LEU	Mainchain
10	j5	864	GLY	Mainchain
10	j5	882	PRO	Mainchain
10	k5	1026	LYS	Mainchain
10	k5	1031	SER	Mainchain
10	k5	1055	SER	Mainchain
10	k5	1077	ILE	Mainchain
10	k5	1139	SER	Mainchain
10	k5	137	PRO	Peptide
10	k5	284	PRO	Peptide
10	k5	289	SER	Mainchain
10	k5	291	ASP	Mainchain
10	k5	518	ASN	Mainchain
10	k5	543	ASN	Mainchain
10	k5	571	ALA	Mainchain
10	k5	615	LYS	Mainchain
10	k5	695	GLY	Mainchain
10	k5	743	VAL	Peptide
10	k5	765	ASP	Mainchain
10	k5	812	SER	Mainchain
10	k5	824	PRO	Mainchain
10	k5	832	ALA	Mainchain
10	k5	846	GLU	Mainchain
10	k5	847	LEU	Mainchain

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Mol	Chain	Res	Type	Group
10	k5	864	GLY	Mainchain
10	k5	882	PRO	Mainchain
8	o7	159	ALA	Mainchain
8	o7	5	THR	Mainchain
8	u7	159	ALA	Mainchain
8	u7	5	THR	Mainchain
9	x7	21	ARG	Mainchain
9	x7	61	GLN	Mainchain
9	y7	21	ARG	Mainchain
9	y7	61	GLN	Mainchain
9	z5	33	PRO	Mainchain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1210	0	1220	112	0
1	B5	1210	0	1218	97	0
1	B7	1210	0	1219	59	0
1	D5	1210	0	1219	89	0
1	D7	1210	0	1219	151	0
1	F5	1210	0	1220	69	0
1	F7	1210	0	1220	21	0
1	H5	1210	0	1218	77	0
1	H7	1210	0	1219	59	0
1	J5	1210	0	1219	91	0
1	J7	1210	0	1220	149	0
1	L5	1210	0	1220	74	0
1	L7	1210	0	1220	19	0
1	N5	1210	0	1220	82	0
1	N7	1210	0	1218	28	0
1	P5	1210	0	1218	63	0
1	P7	1210	0	1220	51	0
1	R5	1210	0	1216	184	0
1	R7	1210	0	1219	31	0
1	T5	1210	0	1220	90	0
1	T7	1210	0	1218	44	0
1	V5	1210	0	1219	64	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	V7	1210	0	1220	51	0
1	X5	1210	0	1219	181	0
1	X7	1210	0	1219	30	0
1	Z	1210	0	1219	115	0
1	Z5	1210	0	1215	100	0
1	Z7	1210	0	1218	44	0
1	b5	1210	0	1218	118	0
1	b7	1210	0	1219	105	0
1	d5	1210	0	1217	91	0
1	d7	1210	0	1215	163	0
1	f5	1210	0	1219	110	0
1	f7	1210	0	1218	46	0
1	h7	1210	0	1219	108	0
1	j7	1210	0	1217	100	0
1	l7	1210	0	1217	73	0
1	n7	1210	0	1220	109	0
1	p7	1210	0	1219	339	0
1	r7	1210	0	1219	55	0
1	t7	1210	0	1218	126	0
1	v7	1210	0	1218	335	0
2	A1	1243	0	1225	84	0
2	A2	1243	0	1225	84	0
2	A3	1243	0	1225	87	0
2	A4	1243	0	1225	82	0
2	A6	1243	0	1225	84	0
2	A8	1243	0	1225	83	0
2	A9	1243	0	1225	85	0
2	AA	1243	0	1225	84	0
2	C1	1243	0	1225	29	0
2	C2	1243	0	1225	17	0
2	C3	1243	0	1225	26	0
2	C4	1243	0	1225	18	0
2	C6	1243	0	1225	15	0
2	C8	1243	0	1225	17	0
2	C9	1243	0	1225	12	0
2	CA	1243	0	1225	12	0
2	E1	1243	0	1225	19	0
2	E2	1243	0	1225	17	0
2	E3	1243	0	1225	19	0
2	E4	1243	0	1224	32	0
2	E6	1243	0	1225	17	0
2	E8	1243	0	1224	27	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	E9	1243	0	1225	40	0
2	EA	1243	0	1225	40	0
2	G1	1243	0	1225	43	0
2	G2	1243	0	1225	34	0
2	G3	1243	0	1225	42	0
2	G4	1243	0	1225	21	0
2	G6	1243	0	1225	26	0
2	G8	1243	0	1225	20	0
2	G9	1243	0	1225	20	0
2	GA	1243	0	1225	21	0
2	I1	1243	0	1225	15	0
2	I2	1243	0	1225	18	0
2	I3	1243	0	1225	15	0
2	I4	1243	0	1225	25	0
2	I6	1243	0	1225	17	0
2	I8	1243	0	1225	27	0
2	I9	1243	0	1225	99	0
2	IA	1243	0	1225	106	0
2	K1	1243	0	1224	68	0
2	K2	1243	0	1225	29	0
2	K3	1243	0	1224	91	0
2	K4	1243	0	1225	32	0
2	K6	1243	0	1225	30	0
2	K8	1243	0	1225	32	0
2	K9	1243	0	1225	76	0
2	KA	1243	0	1225	58	0
2	N4	1243	0	1225	152	0
2	N8	1243	0	1225	174	0
2	O1	1243	0	1225	78	0
2	O3	1243	0	1225	82	0
2	O9	1243	0	1225	81	0
2	OA	1243	0	1225	80	0
2	P4	1243	0	1223	67	0
2	P8	1243	0	1223	54	0
2	Q1	1243	0	1225	19	0
2	Q3	1243	0	1225	18	0
2	Q9	1243	0	1224	39	0
2	QA	1243	0	1223	164	0
2	R4	1243	0	1225	18	0
2	R8	1243	0	1225	18	0
2	S1	1243	0	1225	21	0
2	S3	1243	0	1225	22	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	S9	1243	0	1223	60	0
2	SA	1243	0	1223	59	0
2	T4	1243	0	1225	19	0
2	T8	1243	0	1225	18	0
2	U1	1243	0	1224	45	0
2	U3	1243	0	1222	42	0
2	U9	1243	0	1225	29	0
2	UA	1243	0	1225	67	0
2	V4	1243	0	1225	13	0
2	V8	1243	0	1225	11	0
2	W1	1243	0	1225	12	0
2	W3	1243	0	1225	11	0
2	W9	1243	0	1225	22	0
2	WA	1243	0	1225	30	0
2	X4	1243	0	1224	152	0
2	X8	1243	0	1224	162	0
2	Y1	1243	0	1225	32	0
2	Y3	1243	0	1225	32	0
2	Y9	1243	0	1225	29	0
2	YA	1243	0	1225	30	0
3	B1	1293	0	1300	113	0
3	B2	1293	0	1301	42	0
3	B3	1293	0	1301	108	0
3	B4	1293	0	1300	216	0
3	B6	1293	0	1301	42	0
3	B8	1293	0	1298	136	0
3	B9	1293	0	1301	67	0
3	BA	1293	0	1301	66	0
3	D1	1293	0	1301	42	0
3	D2	1293	0	1301	19	0
3	D3	1293	0	1301	41	0
3	D4	1293	0	1301	54	0
3	D6	1293	0	1301	20	0
3	D8	1293	0	1301	46	0
3	D9	1293	0	1300	62	0
3	DA	1293	0	1300	63	0
3	F1	1293	0	1301	37	0
3	F2	1293	0	1302	62	0
3	F3	1293	0	1301	39	0
3	F4	1293	0	1298	175	0
3	F6	1293	0	1302	81	0
3	F8	1293	0	1299	145	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	F9	1293	0	1301	122	0
3	FA	1293	0	1302	133	0
3	H1	1293	0	1301	81	0
3	H2	1293	0	1301	55	0
3	H3	1293	0	1299	52	0
3	H4	1293	0	1299	104	0
3	H6	1293	0	1301	56	0
3	H8	1293	0	1300	100	0
3	H9	1293	0	1301	120	0
3	HA	1293	0	1300	123	0
3	J1	1293	0	1297	82	0
3	J2	1293	0	1301	43	0
3	J3	1293	0	1300	148	0
3	J4	1293	0	1301	33	0
3	J6	1293	0	1301	42	0
3	J8	1293	0	1301	31	0
3	J9	1293	0	1294	144	0
3	JA	1293	0	1294	150	0
3	L1	1293	0	1301	140	0
3	L2	1293	0	1301	82	0
3	L3	1293	0	1301	137	0
3	L4	1293	0	1301	100	0
3	L6	1293	0	1301	45	0
3	L8	1293	0	1302	139	0
3	L9	1293	0	1301	154	0
3	LA	1293	0	1301	156	0
3	O4	1293	0	1299	122	0
3	O8	1293	0	1298	145	0
3	P1	1293	0	1301	40	0
3	P3	1293	0	1301	41	0
3	P9	1293	0	1301	37	0
3	PA	1293	0	1301	38	0
3	Q4	1293	0	1301	208	0
3	Q8	1293	0	1301	243	0
3	R1	1293	0	1301	34	0
3	R3	1293	0	1301	30	0
3	R9	1293	0	1301	46	0
3	RA	1293	0	1301	52	0
3	S4	1293	0	1302	57	0
3	S8	1293	0	1302	77	0
3	T1	1293	0	1301	41	0
3	T3	1293	0	1301	43	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	T9	1293	0	1297	144	0
3	TA	1293	0	1297	238	0
3	U4	1293	0	1299	92	0
3	U8	1293	0	1301	103	0
3	V1	1293	0	1301	39	0
3	V3	1293	0	1301	41	0
3	V9	1293	0	1298	143	0
3	VA	1293	0	1298	146	0
3	W4	1293	0	1301	21	0
3	W8	1293	0	1301	21	0
3	X1	1293	0	1301	77	0
3	X3	1293	0	1301	77	0
3	X9	1293	0	1301	45	0
3	XA	1293	0	1301	46	0
3	Y4	1293	0	1301	221	0
3	Y8	1293	0	1299	162	0
3	Z1	1293	0	1299	48	0
3	Z3	1293	0	1299	46	0
3	Z9	1293	0	1301	52	0
3	ZA	1293	0	1301	51	0
4	M1	2178	0	2143	394	0
4	M3	2178	0	2143	377	0
4	M4	2178	0	2139	967	0
4	M8	2178	0	2139	873	0
4	M9	2178	0	2140	513	0
4	MA	2178	0	2140	513	0
5	N1	578	0	587	206	0
5	N3	578	0	587	201	0
5	N9	578	0	584	235	0
5	NA	578	0	584	231	0
5	Z4	578	0	584	469	0
5	Z8	578	0	584	536	0
6	M2	2190	0	2142	289	0
6	M6	2190	0	2137	317	0
7	N2	545	0	552	43	0
7	N6	545	0	552	43	0
8	A5	1222	0	1234	174	0
8	A7	1222	0	1233	50	0
8	C5	1222	0	1232	109	0
8	C7	1222	0	1231	119	0
8	E5	1222	0	1231	105	0
8	E7	1222	0	1231	76	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	G5	1222	0	1234	216	0
8	G7	1222	0	1233	68	0
8	I5	1222	0	1232	109	0
8	I7	1222	0	1232	130	0
8	K5	1222	0	1231	123	0
8	K7	1222	0	1231	77	0
8	M5	1222	0	1233	110	0
8	M7	1222	0	1233	64	0
8	O5	1222	0	1233	176	0
8	O7	1222	0	1230	131	0
8	Q5	1222	0	1230	125	0
8	Q7	1222	0	1231	105	0
8	S5	1222	0	1233	127	0
8	S7	1222	0	1233	85	0
8	U5	1222	0	1230	222	0
8	U7	1222	0	1231	120	0
8	W5	1222	0	1230	123	0
8	W7	1222	0	1231	96	0
8	Y5	1222	0	1233	55	0
8	Y7	1222	0	1233	59	0
8	a5	1222	0	1232	126	0
8	a7	1222	0	1230	173	0
8	c5	1222	0	1233	64	0
8	c7	1222	0	1228	335	0
8	e5	1222	0	1232	124	0
8	e7	1222	0	1233	51	0
8	g7	1222	0	1232	175	0
8	i7	1222	0	1229	362	0
8	k7	1222	0	1233	107	0
8	m7	1222	0	1232	123	0
8	o7	1222	0	1226	310	0
8	q7	1222	0	1233	105	0
8	s7	1222	0	1229	172	0
8	u7	1222	0	1228	301	0
9	i5	538	0	555	145	0
9	w7	538	0	552	106	0
9	x7	538	0	552	115	0
9	y7	538	0	553	99	0
9	z5	538	0	555	152	0
9	z7	538	0	554	99	0
10	j5	8819	0	8820	1743	0
10	k5	8819	0	8823	1832	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	a9	6326	0	6124	1826	0
11	aA	6326	0	6123	1862	0
12	A	43	0	37	9	0
12	A1	43	0	37	8	0
12	A2	43	0	37	8	0
12	A3	43	0	37	8	0
12	A4	43	0	37	8	0
12	A5	43	0	38	69	0
12	A6	43	0	37	8	0
12	A7	43	0	37	3	0
12	A8	43	0	37	8	0
12	A9	43	0	37	8	0
12	AA	43	0	37	8	0
12	B1	86	0	74	75	0
12	B2	43	0	37	7	0
12	B3	86	0	75	75	0
12	B4	86	0	69	124	0
12	B5	43	0	37	26	0
12	B6	43	0	37	7	0
12	B7	43	0	37	12	0
12	B8	86	0	68	92	0
12	B9	86	0	74	27	0
12	BA	86	0	74	26	0
12	C1	43	0	37	8	0
12	C2	43	0	37	8	0
12	C3	43	0	37	8	0
12	C4	43	0	37	8	0
12	C5	43	0	37	7	0
12	C6	43	0	37	8	0
12	C7	43	0	37	4	0
12	C8	43	0	37	8	0
12	C9	43	0	37	8	0
12	CA	43	0	37	8	0
12	D1	86	0	74	15	0
12	D2	86	0	74	15	0
12	D3	86	0	74	15	0
12	D4	86	0	73	15	0
12	D5	43	0	37	11	0
12	D6	86	0	74	14	0
12	D7	43	0	35	32	0
12	D8	86	0	73	27	0
12	D9	86	0	74	21	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	DA	86	0	74	20	0
12	E1	43	0	37	8	0
12	E2	43	0	37	7	0
12	E3	43	0	37	8	0
12	E4	43	0	37	8	0
12	E5	43	0	37	27	0
12	E6	43	0	37	8	0
12	E7	43	0	37	13	0
12	E8	43	0	37	8	0
12	E9	43	0	37	7	0
12	EA	43	0	37	7	0
12	F1	86	0	74	31	0
12	F2	86	0	75	59	0
12	F3	86	0	74	31	0
12	F4	86	0	70	17	0
12	F5	43	0	37	17	0
12	F6	86	0	75	69	0
12	F7	43	0	37	17	0
12	F8	86	0	70	14	0
12	F9	129	0	112	73	0
12	FA	43	0	37	19	0
12	G1	43	0	37	8	0
12	G2	43	0	37	11	0
12	G3	43	0	37	8	0
12	G4	43	0	37	8	0
12	G5	43	0	38	70	0
12	G6	43	0	37	8	0
12	G7	43	0	37	3	0
12	G8	43	0	37	8	0
12	G9	43	0	37	8	0
12	GA	43	0	37	8	0
12	H1	86	0	73	62	0
12	H2	86	0	74	27	0
12	H3	86	0	74	20	0
12	H4	86	0	74	35	0
12	H5	43	0	37	21	0
12	H6	86	0	74	25	0
12	H7	43	0	37	11	0
12	H8	86	0	74	34	0
12	H9	86	0	72	88	0
12	HA	86	0	73	88	0
12	I1	43	0	37	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	I2	43	0	37	8	0
12	I3	43	0	37	8	0
12	I4	43	0	37	8	0
12	I5	43	0	37	8	0
12	I6	43	0	37	8	0
12	I7	43	0	37	3	0
12	I8	43	0	37	8	0
12	I9	43	0	37	8	0
12	IA	43	0	37	8	0
12	J1	43	0	37	7	0
12	J2	86	0	74	18	0
12	J3	86	0	74	51	0
12	J4	86	0	74	18	0
12	J5	43	0	37	12	0
12	J6	86	0	74	17	0
12	J7	43	0	35	23	0
12	J8	86	0	74	20	0
12	J9	86	0	73	48	0
12	JA	86	0	73	47	0
12	K1	43	0	37	8	0
12	K2	43	0	37	8	0
12	K3	43	0	37	8	0
12	K4	43	0	37	8	0
12	K5	43	0	37	28	0
12	K6	43	0	37	8	0
12	K7	43	0	37	14	0
12	K8	43	0	37	8	0
12	K9	43	0	37	8	0
12	KA	43	0	37	8	0
12	L1	43	0	37	9	0
12	L2	86	0	74	18	0
12	L3	86	0	71	30	0
12	L4	86	0	74	30	0
12	L5	43	0	37	14	0
12	L6	86	0	74	18	0
12	L7	43	0	37	13	0
12	L8	43	0	37	10	0
12	L9	86	0	74	35	0
12	LA	86	0	74	33	0
12	M4	43	0	37	76	0
12	M5	43	0	37	4	0
12	M7	43	0	37	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	M8	86	0	72	181	0
12	N2	43	0	37	13	0
12	N4	43	0	37	8	0
12	N5	43	0	37	14	0
12	N6	43	0	37	13	0
12	N7	43	0	37	10	0
12	N8	43	0	37	12	0
12	O1	43	0	37	11	0
12	O3	43	0	37	8	0
12	O4	86	0	74	32	0
12	O5	43	0	37	4	0
12	O7	43	0	37	3	0
12	O8	86	0	74	27	0
12	O9	43	0	37	8	0
12	OA	43	0	37	8	0
12	P1	86	0	74	25	0
12	P3	86	0	74	25	0
12	P4	43	0	37	8	0
12	P5	43	0	37	18	0
12	P7	43	0	37	13	0
12	P8	43	0	37	8	0
12	P9	86	0	74	20	0
12	PA	86	0	74	19	0
12	Q1	43	0	37	8	0
12	Q3	43	0	37	8	0
12	Q4	43	0	37	6	0
12	Q5	43	0	37	15	0
12	Q7	43	0	37	14	0
12	Q8	43	0	37	6	0
12	Q9	43	0	37	8	0
12	QA	43	0	37	49	0
12	R1	86	0	74	33	0
12	R3	86	0	74	32	0
12	R4	43	0	37	8	0
12	R5	43	0	37	15	0
12	R7	43	0	37	9	0
12	R8	43	0	37	8	0
12	R9	86	0	74	25	0
12	RA	86	0	74	27	0
12	S1	43	0	37	8	0
12	S3	43	0	37	9	0
12	S4	86	0	75	39	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	S5	43	0	37	3	0
12	S7	43	0	37	4	0
12	S8	43	0	37	6	0
12	S9	43	0	37	8	0
12	SA	43	0	37	8	0
12	T1	86	0	74	28	0
12	T3	86	0	74	28	0
12	T4	43	0	37	8	0
12	T5	43	0	37	19	0
12	T7	43	0	37	16	0
12	T8	43	0	37	8	0
12	T9	86	0	74	52	0
12	TA	86	0	74	53	0
12	U1	43	0	37	8	0
12	U3	43	0	37	8	0
12	U4	86	0	74	19	0
12	U5	43	0	37	3	0
12	U7	43	0	37	3	0
12	U8	86	0	74	21	0
12	U9	43	0	37	8	0
12	UA	43	0	37	9	0
12	V1	86	0	74	13	0
12	V3	86	0	74	13	0
12	V4	43	0	37	8	0
12	V5	43	0	37	18	0
12	V7	43	0	37	10	0
12	V8	43	0	37	8	0
12	V9	86	0	74	48	0
12	VA	86	0	74	60	0
12	W1	43	0	37	8	0
12	W3	43	0	37	8	0
12	W4	86	0	74	14	0
12	W5	43	0	37	14	0
12	W7	43	0	37	14	0
12	W8	86	0	74	15	0
12	W9	43	0	37	8	0
12	WA	43	0	37	8	0
12	X1	86	0	74	23	0
12	X3	86	0	74	26	0
12	X4	43	0	37	8	0
12	X5	43	0	37	16	0
12	X7	43	0	37	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	X8	43	0	37	8	0
12	X9	86	0	74	15	0
12	XA	86	0	74	13	0
12	Y1	43	0	37	8	0
12	Y3	43	0	37	8	0
12	Y4	43	0	37	8	0
12	Y5	43	0	37	3	0
12	Y7	43	0	37	3	0
12	Y8	43	0	37	10	0
12	Y9	43	0	37	8	0
12	YA	43	0	37	8	0
12	Z	43	0	37	8	0
12	Z1	86	0	74	37	0
12	Z3	86	0	74	38	0
12	Z4	43	0	38	104	0
12	Z5	43	0	37	15	0
12	Z8	43	0	37	163	0
12	Z9	86	0	74	20	0
12	ZA	86	0	74	21	0
12	a5	43	0	37	8	0
12	a7	43	0	37	3	0
12	a9	43	0	36	106	0
12	aA	86	0	71	72	0
12	b5	43	0	37	7	0
12	b7	43	0	37	18	0
12	c5	43	0	37	3	0
12	c7	43	0	37	10	0
12	d5	43	0	37	16	0
12	d7	43	0	37	19	0
12	e5	43	0	37	8	0
12	e7	43	0	37	3	0
12	f5	43	0	37	6	0
12	f7	43	0	35	16	0
12	g7	43	0	37	3	0
12	h7	43	0	37	15	0
12	i7	43	0	37	13	0
12	j5	86	38	75	57	0
12	j7	43	0	37	15	0
12	k5	172	38	147	119	0
12	k7	43	0	37	3	0
12	m7	43	0	37	4	0
12	o7	43	0	35	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	p7	43	0	37	16	0
12	q7	43	0	37	3	0
12	r7	43	0	37	17	0
12	s7	43	0	37	3	0
12	u7	43	0	35	19	0
12	v7	43	0	37	22	0
All	All	382696	76	379888	26296	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 34.

All (26296) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:TYR:HE1	10:k5:162:TRP:CZ2	1.10	1.70
10:k5:1152:TYR:CE2	8:G7:68:PRO:HG2	1.24	1.70
10:k5:1008:PHE:CE1	1:p7:87:TYR:CE2	1.76	1.68
10:j5:1008:PHE:CE1	1:v7:87:TYR:CE2	1.77	1.68
3:TA:32:LYS:HE3	2:X4:60:TYR:CD2	1.25	1.68
2:X8:60:TYR:CD2	3:T9:32:LYS:HE3	1.25	1.68
8:i7:47:ARG:HD3	1:j7:18:TYR:CE2	1.27	1.67
3:B3:82:CYS:SG	12:B3:202:CYC:HAC2	1.26	1.65
8:i7:47:ARG:CD	1:j7:18:TYR:CZ	1.75	1.65
3:B4:120:LEU:CD1	4:M4:53:LEU:HB2	1.23	1.64
3:B4:116:THR:HB	4:M4:56:MET:CB	1.25	1.63
11:a9:275:THR:CA	11:a9:278:LEU:HD11	1.25	1.63
11:aA:742:GLN:HG2	3:L1:88:ILE:CD1	1.19	1.63
3:Q8:102:ALA:CB	3:Q8:166:LYS:HE2	1.26	1.63
2:SA:35:THR:HG23	2:X4:74:TYR:CE1	1.29	1.62
3:U8:115:GLU:CB	4:M8:74:LEU:HD12	1.29	1.62
8:c7:20:PRO:CG	8:m7:155:TYR:HB2	1.16	1.62
3:F2:82:CYS:SG	12:F2:201:CYC:HAC2	1.39	1.62
2:I9:37:SER:C	2:I9:97:LEU:HD11	1.24	1.62
12:B1:202:CYC:CBA	11:aA:684:ASN:HB2	1.17	1.61
2:N4:111:ALA:CB	5:Z4:34:LEU:HG	1.16	1.61
3:B4:85:ASP:CB	12:B4:202:CYC:HAC1	1.25	1.61
2:X8:74:TYR:CE1	2:S9:35:THR:HG23	1.29	1.61
8:u7:27:LYS:CE	1:v7:35:ALA:HB1	1.30	1.61
1:A:161:SER:HB2	1:R5:14:VAL:CB	1.29	1.61
9:z5:6:LYS:HB3	9:z5:55:LYS:CB	1.30	1.60
10:k5:889:LEU:CD2	12:D7:201:CYC:CBB	1.74	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u7:29:PHE:CE2	1:v7:31:PHE:HE1	1.07	1.60
8:u7:37:LEU:CD2	1:v7:24:LEU:HD22	1.20	1.60
4:M8:214:GLY:HA2	5:Z8:28:HIS:CD2	1.14	1.59
5:Z8:41:GLN:CB	12:Z8:301:CYC:C2B	1.81	1.59
8:o7:29:PHE:CE2	1:p7:31:PHE:HE1	1.07	1.59
12:J9:202:CYC:CBA	11:a9:511:LYS:HA	1.28	1.59
8:o7:37:LEU:CD2	1:p7:24:LEU:HD22	1.20	1.59
2:N8:112:GLY:CA	5:Z8:34:LEU:H	1.00	1.59
1:P5:114:GLU:CG	10:k5:496:GLU:HG3	1.21	1.59
3:FA:153:CYS:SG	12:F9:302:CYC:HAC1	1.36	1.59
3:U4:115:GLU:CB	4:M4:74:LEU:HD12	1.25	1.59
8:Q7:13:ALA:CA	9:z7:46:LYS:HZ3	1.02	1.59
1:A:73:TYR:CE1	10:k5:162:TRP:CZ2	1.82	1.58
12:JA:202:CYC:CBA	11:aA:511:LYS:HA	1.30	1.58
8:u7:29:PHE:CE2	1:v7:31:PHE:CE1	1.91	1.58
1:A:161:SER:HB2	1:R5:14:VAL:CG2	1.14	1.58
1:P5:114:GLU:HG2	10:k5:496:GLU:CD	1.24	1.58
1:V5:114:GLU:HG2	10:j5:496:GLU:CG	1.20	1.58
10:k5:934:ALA:CB	1:D7:32:THR:HG21	1.19	1.58
5:Z8:38:GLU:HB2	12:Z8:301:CYC:CMB	1.19	1.58
1:A:161:SER:CB	1:R5:14:VAL:CG2	1.76	1.58
9:z5:6:LYS:CB	9:z5:55:LYS:HB2	1.23	1.58
3:L9:14:LEU:HD21	11:a9:358:PRO:CB	1.19	1.58
4:MA:274:VAL:HG13	3:VA:77:ARG:CD	1.18	1.58
3:TA:32:LYS:CE	2:X4:60:TYR:HD2	1.06	1.58
3:U8:108:ARG:HA	4:M8:246:ALA:CB	1.32	1.58
5:Z8:41:GLN:HG2	12:Z8:301:CYC:C3B	1.18	1.58
2:X8:60:TYR:HD2	3:T9:32:LYS:CE	1.06	1.57
5:Z8:22:LEU:HD22	5:Z8:26:LEU:CD1	1.34	1.57
12:J3:202:CYC:CBA	11:a9:667:THR:HG22	1.19	1.57
12:B3:202:CYC:CBA	11:a9:684:ASN:HB3	1.12	1.57
2:N4:111:ALA:C	5:Z4:34:LEU:HB2	1.24	1.57
11:a9:275:THR:HA	11:a9:278:LEU:CD1	1.31	1.57
3:FA:150:ARG:HG2	3:F9:150:ARG:CG	1.18	1.57
3:LA:14:LEU:HD21	11:aA:358:PRO:CB	1.20	1.57
4:M9:274:VAL:CG1	3:V9:77:ARG:HD3	1.12	1.57
11:aA:667:THR:CG2	12:aA:901:CYC:HBA2	1.23	1.57
4:M4:27:HIS:CE1	4:M4:34:ASP:CA	1.76	1.57
8:i7:25:ARG:CZ	8:s7:6:LYS:HB3	1.10	1.57
12:M8:302:CYC:CMC	3:S8:72:ASN:CG	1.76	1.57
5:Z8:22:LEU:CD2	5:Z8:26:LEU:CD1	1.83	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N3:22:LEU:CD2	5:N3:26:LEU:CD1	1.83	1.56
5:NA:22:LEU:HD22	5:NA:26:LEU:CD1	1.35	1.56
10:k5:934:ALA:CB	1:D7:32:THR:CG2	1.79	1.56
3:H8:84:ARG:CD	11:a9:131:TYR:CG	1.88	1.56
3:B4:116:THR:HB	4:M4:56:MET:CG	1.11	1.56
1:V5:114:GLU:HG2	10:j5:496:GLU:CD	1.30	1.56
11:aA:621:THR:HG22	3:J1:14:LEU:CD2	1.28	1.56
12:J3:202:CYC:HBA2	11:a9:667:THR:CG2	1.23	1.56
3:H4:84:ARG:CD	11:aA:131:TYR:CG	1.81	1.56
10:j5:1025:LEU:CD2	10:j5:1035:PHE:HB2	1.23	1.56
4:M8:127:SER:CA	12:M8:302:CYC:CMA	1.80	1.56
4:M8:217:VAL:CG2	5:Z8:30:PRO:HG3	1.11	1.56
11:a9:403:THR:HG22	11:a9:536:THR:CG2	1.33	1.56
1:Z:161:SER:HB2	1:X5:14:VAL:CG2	1.33	1.55
5:N9:22:LEU:CD2	5:N9:26:LEU:CD1	1.83	1.55
3:H4:84:ARG:HD3	11:aA:131:TYR:CD2	1.39	1.55
9:i5:6:LYS:HB3	9:i5:55:LYS:CB	1.30	1.55
1:Z:73:TYR:HE1	10:j5:162:TRP:CZ2	1.20	1.55
8:o7:27:LYS:CE	1:p7:35:ALA:HB1	1.30	1.55
3:U8:115:GLU:CB	4:M8:74:LEU:CD1	1.82	1.55
11:aA:275:THR:CA	11:aA:278:LEU:HD11	1.25	1.55
10:j5:1008:PHE:CZ	1:v7:87:TYR:CE2	1.95	1.55
3:Y8:89:ILE:HA	3:Y8:92:TYR:CE2	1.03	1.55
5:Z8:29:HIS:CE1	5:Z8:31:TRP:HB2	1.36	1.55
11:aA:798:SER:CB	11:aA:800:THR:HG23	1.32	1.55
4:M8:87:ILE:CD1	3:Y8:77:ARG:HG3	1.14	1.55
11:a9:710:THR:HG22	11:a9:807:GLN:CG	1.35	1.55
11:aA:667:THR:HG22	12:aA:901:CYC:CBA	1.18	1.55
3:D4:108:ARG:CD	11:aA:107:ARG:HH12	1.17	1.54
5:N3:22:LEU:HD22	5:N3:26:LEU:CD1	1.35	1.54
3:L4:68:ARG:CB	11:aA:82:GLN:H	1.19	1.54
3:Q8:120:LEU:HD11	3:Q8:122:THR:CB	1.29	1.54
1:f7:67:ARG:CD	11:aA:311:LEU:HD22	1.36	1.54
8:u7:23:LEU:CB	1:v7:38:VAL:HG13	1.35	1.54
5:Z8:41:GLN:HB3	12:Z8:301:CYC:C1B	1.12	1.54
3:J3:14:LEU:CD2	11:a9:621:THR:HG22	1.28	1.54
12:B4:202:CYC:HBB2	4:M4:61:ASN:CB	1.37	1.54
9:i5:6:LYS:CB	9:i5:55:LYS:HB2	1.23	1.54
10:k5:820:HIS:CE1	10:k5:859:ILE:HD11	1.42	1.54
8:c7:15:ALA:HA	1:d7:90:ARG:CZ	1.37	1.54
4:M9:274:VAL:HG13	3:V9:77:ARG:CD	1.17	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z8:41:GLN:CD	12:Z8:301:CYC:HBB2	1.22	1.54
1:V5:114:GLU:CG	10:j5:496:GLU:HG3	1.38	1.54
10:k5:966:SER:HA	1:p7:14:VAL:CG1	1.11	1.54
8:i7:42:THR:HG21	8:i7:141:LEU:CD2	1.37	1.54
3:D8:108:ARG:CD	11:a9:107:ARG:HH12	1.17	1.54
4:M4:104:ALA:CB	2:P4:14:SER:CA	1.76	1.54
3:Q4:102:ALA:CB	3:Q4:166:LYS:HE2	1.37	1.54
5:Z4:41:GLN:HB2	12:Z4:301:CYC:C1B	1.34	1.54
1:V5:83:ARG:NH1	10:j5:649:PHE:CE2	1.75	1.54
10:k5:175:ASP:HB2	10:k5:176:PRO:CD	1.28	1.54
10:k5:1025:LEU:CD2	10:k5:1035:PHE:HB2	1.23	1.54
3:L8:68:ARG:CB	11:a9:82:GLN:H	1.21	1.54
4:M4:27:HIS:CE1	4:M4:35:THR:N	1.75	1.53
5:NA:54:LEU:HD22	3:TA:84:ARG:CZ	1.37	1.53
2:G3:107:ASP:HA	3:L3:77:ARG:CZ	1.37	1.53
3:Y4:89:ILE:HA	3:Y4:92:TYR:CE2	1.03	1.53
3:Q8:89:ILE:HA	3:Q8:92:TYR:CE2	1.05	1.53
3:O4:107:ASP:CG	5:Z4:66:ARG:HD2	1.30	1.53
11:aA:275:THR:HA	11:aA:278:LEU:CD1	1.31	1.53
2:K3:112:GLY:CA	11:a9:670:LEU:HD22	1.36	1.53
8:a7:48:GLU:HA	11:a9:318:TRP:CH2	1.44	1.53
11:aA:710:THR:HG22	11:aA:807:GLN:CG	1.35	1.53
10:k5:966:SER:CA	1:p7:14:VAL:CG1	1.77	1.52
11:a9:312:ASP:HB2	11:a9:315:LEU:CB	1.37	1.52
11:aA:403:THR:HG22	11:aA:536:THR:CG2	1.33	1.52
1:B7:136:VAL:HG13	11:a9:563:PHE:CZ	1.44	1.52
3:F4:113:LEU:CB	4:M4:5:THR:HG23	1.37	1.52
3:H4:84:ARG:HD3	11:aA:131:TYR:CG	1.02	1.52
8:c7:42:THR:HG21	8:c7:141:LEU:CD2	1.37	1.52
4:M8:87:ILE:HD13	3:Y8:77:ARG:CG	1.38	1.52
5:N9:54:LEU:HD22	3:T9:84:ARG:CZ	1.37	1.52
11:a9:75:ALA:CB	11:a9:81:ASP:CG	1.81	1.52
4:M4:144:ARG:HE	4:M4:204:ILE:CG2	1.20	1.52
10:j5:1008:PHE:CE1	1:v7:87:TYR:CZ	1.97	1.52
3:B8:82:CYS:HA	12:B8:202:CYC:C1C	1.39	1.52
3:H8:84:ARG:HD2	11:a9:131:TYR:CG	1.03	1.52
4:M8:104:ALA:CB	2:P8:14:SER:HB3	1.06	1.52
2:G1:107:ASP:HA	3:L1:77:ARG:CZ	1.37	1.52
6:M6:53:LEU:HD23	8:c7:80:LEU:CD2	1.37	1.52
12:B8:202:CYC:HBB2	4:M8:61:ASN:CB	1.37	1.52
11:a9:280:ASP:HB3	11:a9:281:PRO:CD	1.37	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:742:GLN:CG	3:L1:88:ILE:HD11	1.06	1.52
1:T5:110:ASN:HD21	10:j5:692:LEU:CB	1.22	1.51
8:g7:63:PRO:CD	11:aA:336:ILE:CG2	1.83	1.51
4:MA:274:VAL:CA	3:VA:77:ARG:HG2	1.08	1.51
2:QA:119:THR:CB	3:TA:83:LEU:HD13	1.37	1.51
1:Z5:28:LYS:NZ	1:t7:143:PRO:CG	1.70	1.51
11:a9:588:VAL:C	11:a9:590:PRO:HD3	1.34	1.51
4:M1:158:PHE:CD1	3:Z1:108:ARG:NH1	1.74	1.51
5:N1:22:LEU:HD22	5:N1:26:LEU:CD1	1.35	1.51
10:j5:820:HIS:CE1	10:j5:859:ILE:CD1	1.93	1.51
4:M9:274:VAL:CA	3:V9:77:ARG:HG2	1.04	1.51
4:M4:27:HIS:CE1	4:M4:34:ASP:HA	1.00	1.51
4:M4:27:HIS:NE2	4:M4:34:ASP:HA	1.23	1.51
4:M4:104:ALA:HB1	2:P4:14:SER:CA	1.03	1.51
8:o7:29:PHE:CE2	1:p7:31:PHE:CE1	1.91	1.51
3:H8:119:ALA:CB	11:a9:266:ASN:HD22	1.22	1.51
8:a7:63:PRO:CD	11:a9:336:ILE:CG2	1.86	1.51
3:Z3:108:ARG:NH1	4:M3:158:PHE:CD1	1.74	1.50
1:N5:53:LYS:NZ	8:O5:120:GLN:HE21	1.01	1.50
10:j5:820:HIS:CE1	10:j5:859:ILE:HD11	1.42	1.50
12:M8:302:CYC:C1C	3:S8:78:ARG:CD	1.85	1.50
11:a9:75:ALA:HB1	11:a9:81:ASP:CG	1.09	1.50
1:A:158:SER:CB	1:R5:11:ASN:ND2	1.71	1.50
2:IA:37:SER:C	2:IA:97:LEU:HD11	1.24	1.50
3:F4:113:LEU:HB2	4:M4:5:THR:CG2	1.37	1.50
3:O4:119:ALA:HB1	5:Z4:72:GLU:CG	1.33	1.50
4:M8:217:VAL:CG2	5:Z8:30:PRO:CG	1.84	1.50
11:aA:312:ASP:HB2	11:aA:315:LEU:CB	1.37	1.50
11:aA:798:SER:CB	11:aA:800:THR:CG2	1.87	1.50
3:J3:77:ARG:CZ	2:K3:107:ASP:HA	1.37	1.50
2:X8:74:TYR:CZ	2:S9:35:THR:HG23	1.47	1.50
11:aA:312:ASP:CB	11:aA:315:LEU:HB3	1.04	1.50
5:N1:22:LEU:CD2	5:N1:26:LEU:HD11	1.02	1.50
6:M6:117:MET:CE	3:H6:77:ARG:HH11	1.21	1.50
10:j5:934:ALA:CB	1:J7:32:THR:HG21	1.36	1.50
10:j5:978:LEU:CD2	1:v7:107:ARG:NH2	1.70	1.50
10:k5:820:HIS:CE1	10:k5:859:ILE:CD1	1.93	1.50
8:Q7:25:ARG:CB	8:C7:25:ARG:HH21	1.22	1.50
8:o7:23:LEU:CB	1:p7:38:VAL:HG13	1.35	1.50
2:N8:115:GLU:CG	5:Z8:32:PRO:HG2	1.04	1.50
11:aA:75:ALA:HB1	11:aA:81:ASP:CG	1.09	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:GLN:CG	1:R5:17:LYS:NZ	1.70	1.50
1:Z:161:SER:CB	1:X5:14:VAL:CG2	1.90	1.50
6:M2:28:ASN:HB3	8:O5:80:LEU:CD2	1.38	1.50
5:NA:22:LEU:CD2	5:NA:26:LEU:HD11	1.02	1.49
3:F4:84:ARG:CD	11:aA:139:ILE:HG22	1.42	1.49
8:U5:83:ARG:HB3	6:M6:26:PHE:CE1	1.48	1.49
10:j5:1050:PHE:CE2	1:r7:107:ARG:NH2	1.79	1.49
5:Z8:37:HIS:NE2	12:Z8:301:CYC:C3A	1.74	1.49
3:LA:14:LEU:CG	11:aA:358:PRO:HB3	1.40	1.49
3:H2:77:ARG:HH11	6:M2:117:MET:CE	1.21	1.49
5:N9:22:LEU:HD22	5:N9:26:LEU:CD1	1.35	1.49
11:aA:75:ALA:CB	11:aA:81:ASP:CG	1.81	1.49
3:H4:119:ALA:CB	11:aA:266:ASN:HD22	1.24	1.49
10:k5:650:ASP:CB	10:k5:650:ASP:CG	1.86	1.49
3:B8:81:ALA:CB	12:B8:202:CYC:CMD	1.84	1.49
2:N8:115:GLU:CB	5:Z8:32:PRO:HG2	1.38	1.49
3:Y8:89:ILE:CA	3:Y8:92:TYR:CE2	1.94	1.49
11:aA:670:LEU:HD22	2:K1:112:GLY:CA	1.36	1.49
4:M4:104:ALA:HB1	2:P4:14:SER:CB	1.04	1.49
10:j5:650:ASP:CG	10:j5:650:ASP:CB	1.86	1.49
1:d7:87:TYR:OH	9:x7:38:PHE:CE2	1.65	1.49
3:U8:108:ARG:CA	4:M8:246:ALA:HB2	1.37	1.49
3:H8:84:ARG:HD2	11:a9:131:TYR:CD1	1.47	1.49
5:Z8:41:GLN:CG	12:Z8:301:CYC:C3B	1.90	1.49
2:E9:2:LYS:NZ	2:I9:17:ARG:HH12	1.08	1.49
5:N9:22:LEU:CD2	5:N9:26:LEU:HD11	1.02	1.49
3:B4:120:LEU:HD11	4:M4:53:LEU:CA	1.42	1.48
1:T5:83:ARG:NH1	10:j5:483:PHE:CZ	1.75	1.48
8:c7:42:THR:CG2	8:c7:141:LEU:HD23	1.44	1.48
4:M4:104:ALA:CB	2:P4:14:SER:CB	1.84	1.48
3:Y4:89:ILE:CA	3:Y4:92:TYR:CE2	1.94	1.48
1:f5:18:TYR:CD1	10:j5:165:ARG:HD3	1.48	1.48
8:o7:23:LEU:CG	1:p7:38:VAL:HG13	1.44	1.48
3:FA:150:ARG:CG	3:F9:150:ARG:HG2	1.01	1.48
8:S7:49:ARG:HD2	11:aA:550:PHE:CE1	1.45	1.48
3:L9:14:LEU:CG	11:a9:358:PRO:HB3	1.39	1.48
10:k5:1146:THR:HB	1:p7:77:ARG:NH2	1.28	1.48
3:H8:84:ARG:HB3	11:a9:131:TYR:CE1	1.48	1.48
2:K9:15:GLN:CA	11:a9:393:ARG:HH11	1.24	1.48
1:Z:73:TYR:CE1	10:j5:162:TRP:CZ2	1.99	1.48
4:MA:274:VAL:CG1	3:VA:77:ARG:HD3	1.01	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T5:53:LYS:NZ	8:U5:120:GLN:HE21	1.01	1.48
1:Z7:67:ARG:CD	11:a9:311:LEU:HD22	1.40	1.48
8:a7:63:PRO:HD2	11:a9:336:ILE:CG2	1.01	1.48
11:a9:312:ASP:CB	11:a9:315:LEU:HB3	1.04	1.48
5:N3:22:LEU:CD2	5:N3:26:LEU:HD11	1.02	1.47
8:u7:23:LEU:HB3	1:v7:38:VAL:CG1	1.02	1.47
5:N1:22:LEU:CD2	5:N1:26:LEU:CD1	1.83	1.47
2:SA:35:THR:HG23	2:X4:74:TYR:CZ	1.47	1.47
3:O4:119:ALA:CB	5:Z4:72:GLU:HG3	1.40	1.47
3:F8:84:ARG:CD	11:a9:139:ILE:HG22	1.43	1.47
4:M8:214:GLY:CA	5:Z8:28:HIS:NE2	1.76	1.47
4:M9:263:PRO:HB2	3:V9:119:ALA:CB	1.44	1.47
3:B4:116:THR:CB	4:M4:56:MET:CB	1.91	1.47
3:U4:112:GLY:CA	4:M4:74:LEU:HD21	1.42	1.47
10:k5:284:PRO:CG	10:k5:326:GLY:HA3	1.15	1.47
8:q7:76:LYS:NZ	11:aA:605:PRO:HB3	1.28	1.47
11:a9:283:GLN:HB3	11:a9:284:PRO:CD	1.33	1.47
1:d5:28:LYS:NZ	1:n7:143:PRO:CB	1.76	1.47
1:Z5:28:LYS:NZ	1:t7:143:PRO:CB	1.78	1.47
8:g7:63:PRO:HD2	11:aA:336:ILE:CG2	1.01	1.47
3:B4:86:MET:N	12:B4:202:CYC:HBC1	1.16	1.47
1:Z5:28:LYS:CD	1:t7:143:PRO:HG3	1.42	1.47
3:J9:119:ALA:O	11:a9:365:LYS:CE	1.63	1.47
11:aA:588:VAL:C	11:aA:590:PRO:HD3	1.34	1.47
10:k5:1025:LEU:HD21	10:k5:1035:PHE:CB	1.42	1.46
8:i7:42:THR:CG2	8:i7:141:LEU:HD23	1.44	1.46
4:MA:29:PRO:HD3	11:aA:378:GLU:CD	1.41	1.46
2:N4:111:ALA:C	5:Z4:34:LEU:CB	1.88	1.46
3:O8:107:ASP:CB	5:Z8:66:ARG:HB3	1.43	1.46
5:Z8:41:GLN:HB3	12:Z8:301:CYC:C2B	1.33	1.46
11:a9:55:ASP:CB	11:a9:612:TYR:HB2	1.31	1.46
11:aA:280:ASP:HB3	11:aA:281:PRO:CD	1.37	1.46
3:B1:82:CYS:SG	12:B1:202:CYC:CAC	2.03	1.46
3:F4:108:ARG:NE	4:M4:9:GLN:CG	1.74	1.46
4:M4:228:SER:HB2	2:X4:16:GLY:CA	1.44	1.46
1:P5:114:GLU:HG2	10:k5:496:GLU:CG	1.00	1.46
8:g7:48:GLU:HA	11:aA:318:TRP:CH2	1.47	1.46
2:P8:18:PHE:N	3:Q8:91:ARG:NH2	1.60	1.46
4:MA:274:VAL:HA	3:VA:77:ARG:CG	1.01	1.46
12:QA:201:CYC:HBB2	3:TA:75:PRO:CB	1.45	1.46
1:d7:87:TYR:OH	9:x7:38:PHE:CZ	1.68	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H4:84:ARG:HB3	11:aA:131:TYR:CE1	1.48	1.46
10:j5:1025:LEU:HD21	10:j5:1035:PHE:CB	1.42	1.46
10:k5:931:VAL:HG22	1:D7:29:ALA:C	1.36	1.46
4:M9:274:VAL:HA	3:V9:77:ARG:CG	1.00	1.46
3:LA:14:LEU:HD11	11:aA:358:PRO:CG	1.44	1.45
1:X5:50:THR:HG21	8:a5:49:ARG:CZ	1.42	1.45
10:k5:1008:PHE:HE1	1:p7:87:TYR:CE2	1.18	1.45
3:H4:84:ARG:HD3	11:aA:131:TYR:CD1	1.48	1.45
8:o7:23:LEU:HB3	1:p7:38:VAL:CG1	1.02	1.45
5:Z8:22:LEU:CD2	5:Z8:26:LEU:HD11	1.02	1.45
3:J3:84:ARG:CD	11:a9:668:TYR:CD1	1.74	1.45
3:F4:115:GLU:CD	4:M4:3:VAL:HG22	1.37	1.45
3:L4:68:ARG:HH11	11:aA:81:ASP:N	1.10	1.45
4:M4:87:ILE:CD1	3:Y4:77:ARG:HG3	1.44	1.45
4:M4:104:ALA:CB	2:P4:14:SER:N	1.76	1.45
5:Z4:41:GLN:HB2	12:Z4:301:CYC:C2B	1.47	1.45
5:Z8:29:HIS:ND1	5:Z8:31:TRP:HB2	1.25	1.45
11:a9:280:ASP:CB	11:a9:281:PRO:HD2	1.38	1.45
1:Z:158:SER:HB3	1:X5:11:ASN:ND2	1.16	1.45
5:NA:22:LEU:CD2	5:NA:26:LEU:CD1	1.83	1.45
3:U4:108:ARG:HA	4:M4:246:ALA:CB	1.46	1.45
3:H4:84:ARG:CD	11:aA:131:TYR:CD2	1.94	1.45
11:aA:55:ASP:CB	11:aA:612:TYR:HB2	1.31	1.45
3:FA:68:ARG:NH1	3:ZA:68:ARG:HH12	0.97	1.45
10:k5:284:PRO:HG2	10:k5:326:GLY:CA	1.37	1.45
8:i7:25:ARG:NH2	8:s7:6:LYS:HB3	1.28	1.45
8:u7:23:LEU:CG	1:v7:38:VAL:HG13	1.44	1.45
2:X8:67:THR:CB	3:T9:28:THR:CG2	1.94	1.45
3:Q8:87:GLU:OE1	5:Z8:31:TRP:CH2	1.68	1.45
2:EA:2:LYS:NZ	2:IA:17:ARG:HH12	1.08	1.44
10:k5:1152:TYR:CD2	8:G7:68:PRO:CG	1.99	1.44
3:H8:84:ARG:HD2	11:a9:131:TYR:CD2	1.50	1.44
3:L9:14:LEU:HD11	11:a9:358:PRO:CG	1.43	1.44
3:L9:14:LEU:CD2	11:a9:358:PRO:HB3	0.97	1.44
5:N9:66:ARG:NH1	3:T9:111:ASN:ND2	1.62	1.44
11:aA:742:GLN:CD	3:L1:88:ILE:CG1	1.87	1.44
4:M4:104:ALA:CB	2:P4:14:SER:HB3	1.43	1.44
8:U5:48:GLU:HB3	6:M6:34:ARG:NH2	1.19	1.44
10:j5:971:VAL:CG1	1:t7:76:ARG:HH12	1.26	1.44
8:i7:20:PRO:HD3	8:s7:155:TYR:CE1	1.49	1.44
3:B8:81:ALA:CB	12:B8:202:CYC:HMD1	1.40	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:53:LEU:HD13	12:F9:301:CYC:NB	1.20	1.44
12:FA:301:CYC:NB	4:MA:53:LEU:HD13	1.20	1.44
4:MA:263:PRO:HB2	3:VA:119:ALA:CB	1.44	1.44
3:L4:71:GLY:N	11:aA:82:GLN:HG2	1.32	1.44
8:U5:48:GLU:CB	6:M6:34:ARG:HH22	1.28	1.44
3:Q8:102:ALA:CB	3:Q8:166:LYS:CE	1.92	1.44
3:Y8:89:ILE:HG23	3:Y8:92:TYR:CZ	1.52	1.44
3:LA:14:LEU:CD2	11:aA:358:PRO:HB3	0.98	1.44
3:TA:28:THR:CG2	2:X4:67:THR:CB	1.94	1.44
2:N4:111:ALA:O	5:Z4:34:LEU:CD1	1.65	1.44
11:a9:312:ASP:CA	11:a9:315:LEU:CB	1.96	1.44
4:M1:120:LEU:HD21	3:X1:84:ARG:NH1	1.32	1.44
3:U4:115:GLU:HB3	4:M4:74:LEU:CD1	1.47	1.44
3:F4:115:GLU:HG2	4:M4:3:VAL:CG1	1.47	1.44
10:j5:965:GLN:H	1:t7:69:GLY:CA	1.27	1.44
3:Q8:89:ILE:CA	3:Q8:92:TYR:CE2	1.97	1.44
11:aA:283:GLN:HB3	11:aA:284:PRO:CD	1.33	1.44
3:TA:28:THR:CG2	2:X4:67:THR:HB	1.49	1.43
4:M4:27:HIS:CE1	4:M4:35:THR:H	1.23	1.43
8:A7:56:ASP:OD1	11:aA:586:LEU:CD1	1.64	1.43
10:j5:175:ASP:HB2	10:j5:176:PRO:CD	1.28	1.43
10:j5:284:PRO:CG	10:j5:326:GLY:HA3	1.15	1.43
4:M9:77:LEU:CD1	3:Z9:115:GLU:OE2	1.63	1.43
11:aA:800:THR:CG2	12:aA:901:CYC:HAA1	1.47	1.43
5:NA:66:ARG:NH1	3:TA:111:ASN:ND2	1.62	1.43
4:M3:120:LEU:HD21	3:X3:84:ARG:NH1	1.32	1.43
1:J5:71:MEN:CA	1:J5:77:ARG:NH1	1.81	1.43
1:T5:110:ASN:ND2	10:j5:692:LEU:HB3	1.29	1.43
2:N8:112:GLY:CA	5:Z8:34:LEU:N	1.76	1.43
10:j5:175:ASP:CB	10:j5:176:PRO:HD2	1.09	1.43
1:B7:136:VAL:HG13	11:a9:563:PHE:CE2	1.53	1.43
8:i7:96:ILE:HG13	8:i7:152:TYR:CG	1.53	1.43
8:o7:23:LEU:CB	1:p7:38:VAL:CG1	1.88	1.43
11:aA:742:GLN:NE2	3:L1:88:ILE:CG1	1.82	1.43
12:FA:301:CYC:C4B	4:MA:53:LEU:CD1	1.96	1.43
4:M4:82:ILE:CD1	12:M4:301:CYC:O2D	1.64	1.43
8:W5:11:ALA:HB3	1:X5:94:TYR:CE1	1.53	1.43
8:c7:15:ALA:CA	1:d7:90:ARG:NH2	1.81	1.43
4:M3:51:ARG:HH21	11:a9:694:ARG:CZ	1.31	1.43
10:j5:1050:PHE:CZ	1:r7:107:ARG:NH2	1.84	1.43
4:M9:53:LEU:CD1	12:F9:301:CYC:C4B	1.96	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:312:ASP:CA	11:aA:315:LEU:CB	1.96	1.43
3:H2:77:ARG:NH1	6:M2:117:MET:CE	1.79	1.42
1:D5:71:MEN:CA	1:D5:77:ARG:NH1	1.82	1.42
1:Z:161:SER:HB2	1:X5:14:VAL:CB	1.48	1.42
3:Y4:89:ILE:HG23	3:Y4:92:TYR:CZ	1.52	1.42
5:Z4:22:LEU:CD1	12:Z4:301:CYC:OB	1.66	1.42
8:Q5:11:ALA:HB3	1:R5:94:TYR:CE1	1.54	1.42
10:k5:175:ASP:CB	10:k5:176:PRO:HD2	1.09	1.42
8:c7:96:ILE:HG13	8:c7:152:TYR:CG	1.53	1.42
11:aA:694:ARG:CZ	4:M1:51:ARG:HH21	1.31	1.42
12:L4:202:CYC:OB	11:aA:239:TYR:CD1	1.69	1.42
4:M8:91:VAL:CG2	2:P8:14:SER:O	1.66	1.42
12:QA:201:CYC:O2D	3:TA:57:HIS:CD2	1.70	1.42
4:M4:138:SER:CB	4:M4:215:GLU:OE2	1.68	1.42
8:e5:45:GLU:OE1	1:R5:139:GLY:CA	1.66	1.42
3:L8:71:GLY:N	11:a9:82:GLN:HG2	1.20	1.42
4:M8:230:GLN:CB	12:M8:301:CYC:OB	1.65	1.42
4:M8:231:THR:N	12:M8:301:CYC:HBB3	1.10	1.42
4:MA:77:LEU:CD1	3:ZA:115:GLU:OE2	1.63	1.41
12:B3:202:CYC:HBA2	11:a9:684:ASN:CB	1.47	1.41
3:B4:120:LEU:CD1	4:M4:53:LEU:CB	1.97	1.41
8:i7:96:ILE:HA	8:i7:152:TYR:CZ	1.53	1.41
1:d7:77:ARG:NH2	9:x7:63:ALA:HB3	1.25	1.41
12:D8:202:CYC:CBA	4:M8:35:THR:OG1	1.67	1.41
3:Q8:89:ILE:HG23	3:Q8:92:TYR:CZ	1.55	1.41
3:B4:85:ASP:HB2	12:B4:202:CYC:C3C	1.32	1.41
3:F4:109:CYS:C	4:M4:6:THR:HG22	1.39	1.41
4:M4:29:PRO:CB	11:aA:225:VAL:O	1.67	1.41
4:M9:53:LEU:CD1	12:F9:301:CYC:OB	1.67	1.41
4:M1:158:PHE:HD1	3:Z1:108:ARG:NH1	0.94	1.41
2:K3:112:GLY:HA2	11:a9:670:LEU:CD2	1.25	1.41
1:N5:110:ASN:HD21	10:k5:692:LEU:CB	1.28	1.41
1:T5:83:ARG:NH1	10:j5:483:PHE:HZ	1.08	1.41
10:j5:974:LEU:HG	1:v7:1:MET:N	1.10	1.41
10:j5:1018:LEU:CD1	10:j5:1035:PHE:CZ	2.03	1.41
3:JA:119:ALA:O	11:aA:365:LYS:CE	1.64	1.41
1:N5:113:LYS:NZ	1:Z5:155:TYR:CE2	1.89	1.41
1:d7:87:TYR:CZ	9:x7:38:PHE:CZ	2.09	1.41
8:W5:16:ARG:CA	1:X5:90:ARG:HH11	1.32	1.41
10:j5:965:GLN:N	1:t7:69:GLY:HA2	1.14	1.41
10:k5:1018:LEU:CD1	10:k5:1035:PHE:CZ	2.03	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:29:PRO:HD3	11:a9:378:GLU:CD	1.40	1.41
11:aA:670:LEU:CD2	2:K1:112:GLY:HA2	1.23	1.41
3:B4:85:ASP:HB2	12:B4:202:CYC:CAC	0.96	1.40
3:L8:82:CYS:SG	12:a9:901:CYC:HAC2	1.61	1.40
4:M8:214:GLY:HA2	5:Z8:28:HIS:NE2	1.10	1.40
3:O8:108:ARG:HB2	5:Z8:61:LYS:CD	1.11	1.40
11:aA:798:SER:HB3	11:aA:800:THR:CG2	0.94	1.40
3:Z3:108:ARG:NH1	4:M3:158:PHE:HD1	0.94	1.40
1:B5:10:ASN:OD1	10:k5:557:VAL:CB	1.66	1.40
8:Q7:13:ALA:HA	9:z7:46:LYS:NZ	1.24	1.40
3:F9:68:ARG:NH1	3:Z9:68:ARG:HH12	0.97	1.40
2:SA:35:THR:CG2	2:X4:74:TYR:CZ	2.03	1.40
6:M2:127:SER:HB3	3:F2:84:ARG:CZ	1.50	1.40
2:E4:1:MET:N	4:M4:10:ARG:HH21	0.94	1.40
3:F4:113:LEU:CA	4:M4:5:THR:HG23	1.47	1.40
3:B8:81:ALA:HB1	12:B8:202:CYC:CMD	0.93	1.40
2:N8:115:GLU:CG	5:Z8:32:PRO:CG	1.97	1.40
6:M2:62:ARG:HH21	1:h7:58:LYS:C	1.27	1.40
3:Q4:120:LEU:CD2	5:Z4:42:SER:HB2	1.48	1.40
1:Z7:67:ARG:NH2	11:a9:307:ARG:HB3	1.32	1.40
3:H8:84:ARG:CD	11:a9:131:TYR:CD2	2.02	1.40
11:aA:312:ASP:CB	11:aA:315:LEU:CB	1.92	1.40
3:U4:112:GLY:HA2	4:M4:74:LEU:CD2	1.52	1.40
1:d5:28:LYS:NZ	1:n7:143:PRO:HB2	1.14	1.40
1:f5:18:TYR:CZ	10:j5:165:ARG:HB2	1.57	1.40
6:M6:117:MET:CE	3:H6:77:ARG:NH1	1.79	1.40
4:M8:214:GLY:CA	5:Z8:28:HIS:CE1	2.04	1.40
2:N8:14:SER:CB	5:Z8:62:ARG:NE	1.85	1.40
5:Z8:41:GLN:CD	12:Z8:301:CYC:CBB	1.93	1.40
3:B3:88:ILE:CG2	12:B3:202:CYC:HAB2	1.49	1.39
8:W5:11:ALA:CB	1:X5:94:TYR:CE1	2.04	1.39
8:c7:15:ALA:HA	1:d7:90:ARG:NH2	1.10	1.39
8:c7:39:ILE:CD1	8:c7:148:GLU:CG	2.00	1.39
2:X8:67:THR:HB	3:T9:28:THR:CG2	1.48	1.39
4:M8:104:ALA:HB1	2:P8:14:SER:CB	0.92	1.39
2:N4:111:ALA:CB	5:Z4:34:LEU:CG	1.98	1.39
3:O4:107:ASP:CB	5:Z4:66:ARG:HB3	1.51	1.39
8:Q5:16:ARG:CA	1:R5:90:ARG:HH11	1.33	1.39
8:Q7:25:ARG:CB	8:C7:25:ARG:NH2	1.85	1.39
3:Q8:127:VAL:HG22	12:Z8:301:CYC:CMC	1.51	1.39
1:Z:131:GLN:CG	1:X5:17:LYS:NZ	1.82	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J3:14:LEU:HD13	11:a9:621:THR:CG2	1.51	1.39
3:U4:115:GLU:CB	4:M4:74:LEU:CD1	1.95	1.39
3:H4:119:ALA:C	11:aA:266:ASN:HB3	1.47	1.39
1:N5:110:ASN:ND2	10:k5:692:LEU:HB3	1.27	1.39
8:I7:25:ARG:HH21	8:W7:25:ARG:CB	1.33	1.39
8:i7:96:ILE:HG12	8:i7:152:TYR:CD1	1.57	1.39
8:c7:96:ILE:HA	8:c7:152:TYR:CZ	1.53	1.39
1:X5:50:THR:HG21	8:a5:49:ARG:NH1	1.36	1.39
8:i7:47:ARG:HD3	1:j7:18:TYR:CZ	0.88	1.39
2:X8:74:TYR:CZ	2:S9:35:THR:CG2	2.03	1.39
5:Z8:42:SER:CA	12:Z8:301:CYC:HMA2	1.49	1.39
11:aA:312:ASP:CA	11:aA:315:LEU:HB3	1.51	1.39
11:aA:621:THR:CG2	3:J1:14:LEU:HD13	1.49	1.39
11:aA:776:TYR:CE1	12:H1:201:CYC:OB	1.74	1.39
1:Z:158:SER:CB	1:X5:11:ASN:ND2	1.84	1.39
3:J3:84:ARG:HH22	11:a9:669:ILE:C	1.31	1.39
2:P4:19:LEU:CG	3:Q4:95:TYR:HE1	1.35	1.39
8:Q5:11:ALA:CB	1:R5:94:TYR:CE1	2.04	1.39
8:a7:52:LYS:HD2	11:a9:321:ALA:CB	1.51	1.39
4:M8:138:SER:CB	4:M8:215:GLU:OE2	1.68	1.39
12:M8:302:CYC:HMD3	3:S8:77:ARG:NH2	1.28	1.39
3:B4:85:ASP:CB	12:B4:202:CYC:CAC	1.83	1.38
3:B4:116:THR:CB	4:M4:56:MET:HB3	1.45	1.38
8:I5:27:LYS:O	8:I5:29:PHE:N	1.56	1.38
2:X8:16:GLY:CA	4:M8:228:SER:HB2	1.52	1.38
12:FA:301:CYC:OB	4:MA:53:LEU:CD1	1.67	1.38
2:SA:38:MET:C	2:X4:69:PRO:HG2	1.48	1.38
3:B4:85:ASP:CA	12:B4:202:CYC:HAC1	1.51	1.38
2:U3:46:SER:O	2:Q9:74:TYR:CZ	1.75	1.38
1:Z5:28:LYS:NZ	1:t7:143:PRO:HG2	1.20	1.38
10:j5:934:ALA:CB	1:J7:32:THR:CG2	2.01	1.38
3:L3:84:ARG:HG2	11:a9:742:GLN:OE1	1.24	1.38
6:M6:127:SER:HB3	3:F6:84:ARG:CZ	1.50	1.38
10:j5:931:VAL:HG22	1:J7:29:ALA:C	1.47	1.38
10:k5:1008:PHE:CE1	1:p7:87:TYR:CZ	2.11	1.38
3:F6:78:ARG:CD	12:F6:201:CYC:O2D	1.71	1.38
8:i7:21:GLY:N	8:s7:101:VAL:HG22	1.35	1.38
8:i7:39:ILE:CD1	8:i7:148:GLU:CG	1.99	1.38
3:D4:108:ARG:CD	11:aA:107:ARG:NH1	1.76	1.38
10:j5:190:LEU:HB3	10:j5:194:CYS:SG	1.62	1.38
8:i7:20:PRO:HG3	8:s7:155:TYR:CG	1.58	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X8:13:ASP:OD1	4:M8:229:GLY:CA	1.69	1.38
11:aA:280:ASP:CB	11:aA:281:PRO:HD2	1.38	1.38
1:A:110:ASN:ND2	10:k5:462:TYR:CE2	1.92	1.38
3:L3:119:ALA:HB2	11:a9:813:PRO:CB	1.51	1.38
12:B1:202:CYC:HAA1	11:aA:684:ASN:CG	1.48	1.38
1:P5:114:GLU:CG	10:k5:496:GLU:CG	1.83	1.38
1:T5:53:LYS:NZ	8:U5:120:GLN:NE2	1.72	1.38
1:b5:18:TYR:CD1	10:k5:165:ARG:HD3	1.57	1.38
11:aA:742:GLN:CG	3:L1:88:ILE:CD1	1.74	1.38
3:B1:88:ILE:HG21	12:B1:202:CYC:CMB	1.50	1.37
8:C5:27:LYS:O	8:C5:29:PHE:N	1.56	1.37
8:i7:21:GLY:H	8:s7:101:VAL:CG2	1.36	1.37
11:aA:586:LEU:O	11:aA:590:PRO:CG	1.73	1.37
1:Z:131:GLN:CG	1:X5:17:LYS:HZ1	1.35	1.37
1:d5:28:LYS:HZ3	1:n7:143:PRO:CB	1.35	1.37
8:W5:15:ALA:O	1:X5:90:ARG:CD	1.72	1.37
6:M6:283:VAL:CG1	8:Y7:75:GLU:HB3	1.53	1.37
10:k5:1143:LEU:HD12	8:k7:106:GLU:OE1	1.22	1.37
10:k5:1152:TYR:CD2	8:G7:68:PRO:HG2	1.55	1.37
11:aA:742:GLN:CD	3:L1:88:ILE:HD11	1.44	1.37
1:b5:18:TYR:CZ	10:k5:165:ARG:HB2	1.57	1.37
8:c7:96:ILE:HG12	8:c7:152:TYR:CD1	1.57	1.37
3:F8:107:ASP:CB	4:M8:8:SER:O	1.72	1.37
4:M8:127:SER:HA	12:M8:302:CYC:CMA	1.41	1.37
10:j5:156:SER:OG	12:j5:1201:CYC:H3C	1.25	1.37
10:k5:190:LEU:HB3	10:k5:194:CYS:SG	1.62	1.37
8:g7:52:LYS:HD2	11:aA:321:ALA:CB	1.53	1.37
12:M8:302:CYC:CMC	3:S8:72:ASN:ND2	1.82	1.37
8:U5:59:PHE:CD2	6:M6:37:GLU:OE2	1.77	1.36
10:k5:1055:SER:OG	12:k5:1203:CYC:CBB	1.71	1.36
3:D8:108:ARG:CD	11:a9:107:ARG:NH1	1.77	1.36
11:a9:586:LEU:O	11:a9:590:PRO:CG	1.73	1.36
1:N5:53:LYS:NZ	8:O5:120:GLN:NE2	1.72	1.36
10:j5:136:VAL:HG12	10:j5:137:PRO:CD	1.56	1.36
10:j5:1018:LEU:HB3	10:j5:1021:ALA:CB	1.55	1.36
4:M8:91:VAL:CG1	2:P8:14:SER:O	1.71	1.36
1:A:161:SER:CB	1:R5:14:VAL:HG23	1.43	1.36
3:DA:108:ARG:O	4:MA:6:THR:HG22	1.23	1.36
6:M2:28:ASN:CB	8:O5:80:LEU:CD2	2.04	1.36
1:Z:131:GLN:HG3	1:X5:17:LYS:NZ	1.08	1.36
3:DA:68:ARG:HH22	3:XA:68:ARG:NH1	1.22	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1146:THR:HB	1:v7:77:ARG:NH2	1.33	1.36
3:H8:119:ALA:HB3	11:a9:266:ASN:ND2	1.37	1.36
4:M8:127:SER:CB	12:M8:302:CYC:CMA	2.00	1.36
3:H9:120:LEU:HD11	12:H9:202:CYC:CAA	1.53	1.36
11:a9:31:SER:OG	11:a9:34:ILE:HB	1.22	1.36
11:a9:624:GLY:O	11:a9:628:THR:HG22	1.19	1.36
11:aA:666:ASN:HB3	12:aA:901:CYC:C4B	1.56	1.36
11:aA:813:PRO:CB	3:L1:119:ALA:HB2	1.53	1.36
1:B5:10:ASN:CG	10:k5:557:VAL:HB	1.48	1.36
6:M6:127:SER:CB	3:F6:84:ARG:CZ	2.03	1.36
10:j5:974:LEU:CG	1:v7:1:MET:N	1.88	1.36
1:f7:67:ARG:NH2	11:aA:307:ARG:HB3	1.33	1.36
3:H8:119:ALA:C	11:a9:266:ASN:HB3	1.48	1.36
8:Q5:15:ALA:O	1:R5:90:ARG:CD	1.72	1.35
8:U5:76:LYS:HD2	8:U5:77:MET:CE	1.56	1.35
12:B8:202:CYC:CBB	4:M8:61:ASN:CB	2.04	1.35
3:Q8:85:ASP:CB	12:Z8:301:CYC:HBC1	1.55	1.35
3:Q8:102:ALA:HB2	3:Q8:166:LYS:CE	1.53	1.35
5:Z8:38:GLU:CB	12:Z8:301:CYC:HMB2	1.55	1.35
11:a9:312:ASP:CB	11:a9:315:LEU:CB	1.92	1.35
3:F4:107:ASP:CB	4:M4:8:SER:OG	1.73	1.35
4:M4:232:VAL:O	4:M4:235:PHE:CE2	1.78	1.35
10:k5:935:LEU:CD1	1:D7:29:ALA:HB2	1.53	1.35
2:E1:13:ASP:CG	11:aA:644:ARG:NH1	1.84	1.35
2:X8:69:PRO:HG2	2:S9:38:MET:C	1.48	1.35
4:M8:232:VAL:O	4:M8:235:PHE:CE2	1.78	1.35
6:M2:127:SER:HB2	3:F2:84:ARG:NH2	1.42	1.35
10:k5:965:GLN:N	1:n7:69:GLY:HA2	1.38	1.35
8:I7:76:LYS:NZ	11:aA:567:GLN:HE21	1.22	1.35
8:g7:63:PRO:CD	11:aA:336:ILE:HG22	1.47	1.35
4:M8:127:SER:CA	12:M8:302:CYC:HMA1	1.40	1.35
8:O5:76:LYS:HD2	8:O5:77:MET:CE	1.56	1.35
10:k5:136:VAL:HG12	10:k5:137:PRO:CD	1.56	1.35
10:k5:935:LEU:HD13	1:D7:29:ALA:CB	1.56	1.35
1:R7:118:SER:O	9:z7:61:GLN:CD	1.70	1.35
3:L9:14:LEU:HD21	11:a9:358:PRO:CA	1.57	1.35
11:a9:312:ASP:CA	11:a9:315:LEU:HB3	1.51	1.35
3:HA:120:LEU:HD11	12:HA:202:CYC:CAA	1.55	1.35
3:HA:126:SER:CB	12:HA:202:CYC:HMC3	1.55	1.35
6:M2:127:SER:CB	3:F2:84:ARG:CZ	2.03	1.35
3:B4:120:LEU:HD11	4:M4:53:LEU:CB	1.53	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b5:38:VAL:HG13	10:k5:40:VAL:CG1	1.55	1.35
10:k5:820:HIS:ND1	10:k5:859:ILE:CD1	1.89	1.35
10:k5:1016:LEU:HD12	10:k5:1017:ARG:N	1.40	1.35
4:M8:205:ASP:CB	5:Z8:59:ARG:HE	1.36	1.35
12:M8:302:CYC:C1C	3:S8:78:ARG:HD3	0.89	1.35
4:M9:6:THR:HG22	3:D9:108:ARG:O	1.23	1.35
11:a9:239:TYR:HE2	12:a9:901:CYC:C4B	1.38	1.35
5:Z4:41:GLN:CB	12:Z4:301:CYC:C2B	2.04	1.34
12:B5:201:CYC:CBA	9:z5:26:THR:HG21	1.53	1.34
10:j5:820:HIS:ND1	10:j5:859:ILE:CD1	1.89	1.34
5:Z8:34:LEU:O	5:Z8:34:LEU:HD23	1.23	1.34
3:JA:20:SER:O	3:JA:22:GLN:N	1.58	1.34
3:B3:82:CYS:SG	12:B3:202:CYC:CAC	2.13	1.34
12:B4:202:CYC:CBB	4:M4:61:ASN:CB	2.04	1.34
2:P4:19:LEU:HG	3:Q4:95:TYR:CE1	1.60	1.34
8:e5:49:ARG:CZ	1:R5:50:THR:HG21	1.57	1.34
10:k5:924:ASP:OD1	1:D7:26:LYS:NZ	1.56	1.34
10:k5:1018:LEU:HB3	10:k5:1021:ALA:CB	1.55	1.34
8:g7:25:ARG:NH2	8:u7:25:ARG:NH1	1.69	1.34
3:Y8:87:GLU:OE2	3:Y8:91:ARG:NH2	1.59	1.34
11:aA:776:TYR:CD1	12:H1:201:CYC:OB	1.79	1.34
2:QA:71:GLN:N	2:QA:74:TYR:CE2	1.92	1.34
1:D5:71:MEN:CA	1:D5:77:ARG:HH11	1.38	1.34
6:M6:127:SER:HB2	3:F6:84:ARG:NH2	1.42	1.34
6:M6:277:GLY:CA	1:d7:62:TYR:O	1.74	1.34
1:H7:136:VAL:HG13	11:aA:563:PHE:CE2	1.62	1.34
8:i7:47:ARG:HD3	1:j7:18:TYR:CE1	1.62	1.34
1:d7:87:TYR:CZ	9:x7:38:PHE:HZ	1.39	1.34
8:u7:23:LEU:CB	1:v7:38:VAL:CG1	1.88	1.34
4:M8:87:ILE:CD1	3:Y8:77:ARG:CG	1.97	1.34
11:a9:283:GLN:CB	11:a9:284:PRO:HD2	1.57	1.34
3:U4:111:ASN:OD1	4:M4:77:LEU:HD13	1.23	1.34
1:N5:83:ARG:NH1	10:k5:483:PHE:HZ	1.25	1.34
1:J5:71:MEN:HA	1:J5:77:ARG:NH1	1.02	1.34
10:j5:934:ALA:HB1	1:J7:32:THR:CG2	1.58	1.34
4:M8:197:ASP:HB3	5:Z8:52:ARG:CG	1.54	1.34
3:J9:20:SER:O	3:J9:22:GLN:N	1.58	1.34
11:a9:403:THR:CG2	11:a9:536:THR:CG2	2.06	1.34
12:J3:202:CYC:C4B	11:a9:666:ASN:HB3	1.57	1.34
3:H4:119:ALA:HB3	11:aA:266:ASN:ND2	1.37	1.34
12:M4:301:CYC:CMC	3:Y4:72:ASN:HB3	1.56	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M5:20:PRO:HG2	8:A5:100:ASP:OD1	1.26	1.34
10:k5:1074:GLN:OE1	1:l7:119:LEU:HD21	1.23	1.34
3:S8:113:LEU:O	3:S8:116:THR:HG22	1.22	1.34
11:a9:710:THR:HG22	11:a9:807:GLN:CB	1.58	1.34
11:aA:312:ASP:HA	11:aA:315:LEU:CB	1.53	1.34
3:LA:14:LEU:HD21	11:aA:358:PRO:CA	1.58	1.33
3:J3:84:ARG:HD2	11:a9:668:TYR:CG	1.61	1.33
10:j5:1016:LEU:HD12	10:j5:1017:ARG:N	1.40	1.33
10:k5:978:LEU:HD21	1:p7:107:ARG:NH2	1.39	1.33
4:M8:223:GLY:O	12:M8:301:CYC:HBA2	1.19	1.33
3:F9:68:ARG:HH12	3:Z9:68:ARG:NH1	0.85	1.33
11:aA:621:THR:CG2	3:J1:14:LEU:CD1	2.05	1.33
4:MA:274:VAL:CG1	3:VA:77:ARG:CD	1.84	1.33
5:NA:54:LEU:HD22	3:TA:84:ARG:NE	1.43	1.33
2:SA:35:THR:HG22	2:X4:74:TYR:OH	1.27	1.33
12:O4:201:CYC:CMA	5:Z4:53:LEU:HD13	1.56	1.33
10:k5:934:ALA:HB1	1:D7:32:THR:CG2	1.41	1.33
8:M7:49:ARG:HD2	11:a9:550:PHE:CE1	1.63	1.33
4:M8:29:PRO:HB3	11:a9:225:VAL:O	1.22	1.33
2:N8:112:GLY:HA3	5:Z8:34:LEU:N	1.28	1.33
3:O8:104:VAL:O	5:Z8:61:LYS:HE2	1.20	1.33
5:Z8:42:SER:HA	12:Z8:301:CYC:CMA	1.57	1.33
11:a9:239:TYR:CE2	12:a9:901:CYC:OB	1.80	1.33
11:aA:403:THR:CG2	11:aA:536:THR:CG2	2.06	1.33
5:NA:22:LEU:CD2	5:NA:26:LEU:HD21	1.57	1.33
3:J3:14:LEU:CD1	11:a9:621:THR:CG2	2.06	1.33
1:D5:71:MEN:HA	1:D5:77:ARG:NH1	1.02	1.33
8:i7:25:ARG:CZ	8:s7:6:LYS:CB	2.04	1.33
8:c7:96:ILE:HA	8:c7:152:TYR:CE2	1.63	1.33
12:D8:202:CYC:CBA	4:M8:35:THR:CB	2.04	1.33
11:aA:742:GLN:CD	3:L1:88:ILE:CD1	1.90	1.33
3:TA:32:LYS:HE2	2:X4:57:GLN:OE1	1.23	1.33
3:L3:88:ILE:CG1	11:a9:742:GLN:NE2	1.82	1.33
1:Z5:127:VAL:HG11	10:k5:698:GLY:N	1.42	1.33
1:b5:30:TYR:OH	10:k5:47:PHE:CZ	1.72	1.33
10:j5:284:PRO:HG2	10:j5:326:GLY:CA	1.37	1.33
3:U8:114:LYS:NZ	4:M8:13:LYS:CE	1.90	1.33
5:N9:61:LYS:HD3	3:T9:108:ARG:O	1.27	1.33
5:Z8:22:LEU:CD1	12:Z8:301:CYC:OB	1.75	1.33
5:Z8:41:GLN:CG	12:Z8:301:CYC:C4B	2.04	1.33
11:a9:312:ASP:HA	11:a9:315:LEU:CB	1.53	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:ASN:ND2	10:k5:462:TYR:CZ	1.91	1.33
2:OA:33:ARG:NH1	12:ZA:201:CYC:OB	1.62	1.33
6:M2:39:ARG:NE	8:O5:66:VAL:HG11	1.38	1.33
2:E3:13:ASP:CG	11:a9:644:ARG:HH11	1.32	1.33
2:N4:111:ALA:HB3	5:Z4:34:LEU:CD1	1.58	1.33
10:k5:1013:PRO:HB3	8:k7:114:GLU:OE2	1.27	1.33
4:M8:214:GLY:CA	5:Z8:28:HIS:CD2	2.06	1.33
4:M8:235:PHE:HB3	12:M8:301:CYC:C3A	1.57	1.33
3:B9:107:ASP:CB	11:a9:382:ASN:HD22	1.41	1.33
11:aA:817:LEU:CD1	3:L1:119:ALA:O	1.77	1.33
3:FA:68:ARG:HH12	3:ZA:68:ARG:NH1	0.85	1.32
3:F4:84:ARG:HD3	11:aA:139:ILE:CG2	1.59	1.32
8:c7:20:PRO:CG	8:m7:155:TYR:CB	2.05	1.32
8:m7:29:PHE:CZ	8:m7:98:ALA:O	1.82	1.32
2:N8:115:GLU:HB2	5:Z8:32:PRO:CB	1.56	1.32
3:Q8:102:ALA:HB2	3:Q8:166:LYS:NZ	1.39	1.32
3:Y8:89:ILE:CG2	3:Y8:92:TYR:OH	1.77	1.32
5:Z8:41:GLN:HG2	12:Z8:301:CYC:C4B	1.57	1.32
11:aA:621:THR:HG22	3:J1:14:LEU:CG	1.57	1.32
11:aA:776:TYR:H	12:H1:201:CYC:CBA	1.40	1.32
3:H1:77:ARG:HH12	12:H1:201:CYC:CGD	1.40	1.32
3:J3:14:LEU:CG	11:a9:621:THR:HG22	1.59	1.32
3:J3:120:LEU:HD21	11:a9:800:THR:CG2	1.60	1.32
3:L3:119:ALA:O	11:a9:817:LEU:CD1	1.76	1.32
3:F4:108:ARG:NH2	4:M4:9:GLN:HG2	1.43	1.32
8:e5:38:ARG:NH2	1:R5:144:ASP:OD1	1.62	1.32
8:U7:29:PHE:CZ	8:U7:98:ALA:O	1.83	1.32
3:O8:107:ASP:CG	5:Z8:66:ARG:HD2	1.53	1.32
11:aA:710:THR:HG22	11:aA:807:GLN:CB	1.58	1.32
12:B1:202:CYC:HBA2	11:aA:684:ASN:CB	1.57	1.32
2:N4:112:GLY:N	5:Z4:34:LEU:HB2	1.41	1.32
10:k5:1143:LEU:CD1	8:k7:106:GLU:OE1	1.77	1.32
8:g7:25:ARG:HH21	8:u7:25:ARG:NH1	1.23	1.32
8:i7:96:ILE:HA	8:i7:152:TYR:CE2	1.63	1.32
8:u7:6:LYS:NZ	8:u7:102:THR:OG1	1.60	1.32
11:a9:351:THR:CB	11:a9:352:PRO:HD2	1.40	1.32
2:A1:33:ARG:NH1	12:L1:201:CYC:OB	1.62	1.32
2:E3:13:ASP:CG	11:a9:644:ARG:NH1	1.87	1.32
4:M4:27:HIS:CE1	4:M4:34:ASP:C	2.04	1.32
4:M4:29:PRO:HB3	11:aA:225:VAL:C	1.51	1.32
1:d5:28:LYS:CD	1:n7:143:PRO:HB3	1.60	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1009:ALA:HB2	1:v7:87:TYR:CE1	1.63	1.32
8:O7:29:PHE:CZ	8:O7:98:ALA:O	1.83	1.32
2:N8:33:ARG:NH1	12:Y8:201:CYC:OB	1.62	1.32
3:D9:68:ARG:HH22	3:X9:68:ARG:NH1	1.22	1.32
3:H4:111:ASN:CG	11:aA:291:TYR:OH	1.72	1.32
8:I5:29:PHE:CZ	8:I5:98:ALA:O	1.83	1.32
8:W5:16:ARG:CA	1:X5:90:ARG:HD3	1.60	1.32
3:Q8:85:ASP:CB	12:Z8:301:CYC:CBC	2.07	1.32
3:Q8:85:ASP:HB2	12:Z8:301:CYC:CBC	1.59	1.32
3:F2:78:ARG:CD	12:F2:201:CYC:O2D	1.75	1.32
4:MA:232:VAL:HG13	3:XA:111:ASN:O	1.14	1.31
2:QA:68:GLN:CA	2:U1:46:SER:HB3	1.60	1.31
12:L2:202:CYC:OB	2:A2:33:ARG:NH1	1.62	1.31
6:M2:53:LEU:HD23	8:i7:80:LEU:CD2	1.59	1.31
2:U3:46:SER:OG	2:Q9:74:TYR:CD1	1.70	1.31
3:Y4:89:ILE:CG2	3:Y4:92:TYR:OH	1.77	1.31
5:Z4:24:PRO:CG	12:Z4:301:CYC:O2A	1.78	1.31
1:f5:19:LEU:CD1	10:j5:172:LEU:CD1	2.06	1.31
3:L6:125:ARG:HD2	1:b7:69:GLY:CA	1.57	1.31
8:a7:29:PHE:CZ	8:a7:98:ALA:O	1.83	1.31
4:M8:235:PHE:HB3	12:M8:301:CYC:C2A	1.60	1.31
12:M8:302:CYC:CMC	3:S8:72:ASN:OD1	1.68	1.31
11:aA:290:ASP:O	11:aA:291:TYR:CD1	1.82	1.31
3:F4:115:GLU:OE2	4:M4:3:VAL:HG22	1.23	1.31
8:C5:29:PHE:CZ	8:C5:98:ALA:O	1.83	1.31
8:i7:20:PRO:HD3	8:s7:155:TYR:CD1	1.65	1.31
8:i7:37:LEU:HD11	1:j7:31:PHE:CE2	1.63	1.31
3:U8:115:GLU:HB2	4:M8:74:LEU:CD1	1.50	1.31
12:FA:301:CYC:NB	4:MA:53:LEU:CD1	1.93	1.31
2:C3:115:GLU:OE2	4:M3:33:LEU:HD23	1.15	1.31
3:B4:116:THR:OG1	4:M4:56:MET:HB3	1.31	1.31
3:L4:68:ARG:CB	11:aA:82:GLN:N	1.92	1.31
2:N4:33:ARG:NH1	12:Y4:201:CYC:OB	1.62	1.31
8:M5:41:GLN:OE1	1:J7:143:PRO:HG3	1.25	1.31
8:O5:29:PHE:CZ	8:O5:98:ALA:O	1.83	1.31
5:Z4:34:LEU:O	5:Z4:34:LEU:HD23	1.23	1.31
10:j5:284:PRO:CG	10:j5:326:GLY:CA	1.93	1.31
8:O7:49:ARG:NH1	1:r7:114:GLU:CD	1.87	1.31
8:I7:29:PHE:CZ	8:I7:98:ALA:O	1.82	1.31
8:g7:29:PHE:CZ	8:g7:98:ALA:O	1.83	1.31
8:i7:3:VAL:HG13	8:s7:25:ARG:NH2	1.41	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O9:33:ARG:NH1	12:Z9:201:CYC:OB	1.62	1.31
11:aA:107:ARG:CG	11:aA:108:PRO:HD2	1.60	1.31
12:Z3:202:CYC:OB	2:O3:33:ARG:NH1	1.62	1.31
4:M4:104:ALA:CA	2:P4:14:SER:HB3	1.61	1.31
8:e5:29:PHE:CZ	8:e5:98:ALA:O	1.83	1.31
10:j5:965:GLN:HG3	1:t7:69:GLY:O	1.28	1.31
3:U8:120:LEU:HD21	12:U8:201:CYC:CBD	1.61	1.31
2:X8:57:GLN:OE1	3:T9:32:LYS:HE2	1.23	1.31
3:F8:115:GLU:HG2	4:M8:3:VAL:CG1	1.59	1.31
11:a9:107:ARG:CG	11:a9:108:PRO:HD2	1.60	1.31
11:aA:668:TYR:OH	2:K1:115:GLU:HG3	1.14	1.31
4:M4:232:VAL:O	4:M4:235:PHE:CD2	1.83	1.31
8:U5:83:ARG:CB	6:M6:26:PHE:CE1	2.14	1.31
8:a5:29:PHE:CZ	8:a5:98:ALA:O	1.83	1.31
8:C7:29:PHE:CZ	8:C7:98:ALA:O	1.82	1.31
8:i7:12:ASP:OD2	9:y7:46:LYS:NZ	1.64	1.31
4:M8:225:LYS:N	12:M8:301:CYC:O1A	1.59	1.31
12:O8:201:CYC:CMA	5:Z8:53:LEU:HD13	1.60	1.31
11:a9:275:THR:CA	11:a9:278:LEU:CD1	1.96	1.31
5:N1:36:THR:OG1	12:T1:301:CYC:NB	1.64	1.31
1:A:122:PRO:HB3	1:P5:64:ASP:OD2	1.16	1.30
3:BA:107:ASP:CB	11:aA:382:ASN:HD22	1.42	1.30
3:FA:145:PRO:CG	12:F9:302:CYC:HMC2	1.60	1.30
3:F4:113:LEU:N	4:M4:5:THR:HA	1.43	1.30
10:k5:978:LEU:CD2	1:p7:107:ARG:NH2	1.92	1.30
8:O7:49:ARG:HH12	1:r7:114:GLU:CD	1.37	1.30
2:A8:33:ARG:NH1	12:L8:201:CYC:OB	1.62	1.30
3:L8:65:ASP:O	11:a9:82:GLN:NE2	1.63	1.30
4:M8:127:SER:N	12:M8:302:CYC:HMA2	1.42	1.30
5:Z8:22:LEU:CD2	5:Z8:26:LEU:HD21	1.57	1.30
11:aA:75:ALA:HB1	11:aA:81:ASP:CB	1.61	1.30
11:aA:283:GLN:CB	11:aA:284:PRO:HD2	1.57	1.30
3:TA:21:GLU:CB	2:R4:64:PRO:HG2	1.60	1.30
1:D5:73:TYR:O	1:D5:77:ARG:HD3	1.30	1.30
1:f5:161:SER:O	1:V5:101:PRO:HG3	1.26	1.30
12:L6:202:CYC:OB	2:A6:33:ARG:NH1	1.62	1.30
4:M8:1:MET:N	11:a9:149:SER:O	1.63	1.30
4:M8:232:VAL:O	4:M8:235:PHE:CD2	1.84	1.30
5:N9:22:LEU:CD2	5:N9:26:LEU:HD21	1.57	1.30
11:a9:75:ALA:HB1	11:a9:81:ASP:CB	1.61	1.30
10:j5:1150:TYR:CE2	1:v7:69:GLY:O	1.84	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1153:VAL:CG2	1:v7:125:ALA:CB	2.07	1.30
12:B8:202:CYC:CMA	4:M8:58:TYR:H	1.43	1.30
8:s7:29:PHE:CZ	8:s7:98:ALA:O	1.82	1.30
3:L8:68:ARG:CB	11:a9:82:GLN:N	1.94	1.30
4:M8:205:ASP:HB3	5:Z8:59:ARG:NE	1.41	1.30
4:M8:214:GLY:N	5:Z8:28:HIS:CE1	1.98	1.30
12:M8:302:CYC:OC	3:S8:78:ARG:HD3	1.19	1.30
2:R8:64:PRO:HG2	3:T9:21:GLU:CB	1.60	1.30
5:Z8:37:HIS:CD2	12:Z8:301:CYC:C4A	2.12	1.30
11:a9:93:LEU:HD23	11:a9:252:ARG:NH1	1.44	1.30
11:a9:290:ASP:O	11:a9:291:TYR:CD1	1.82	1.30
3:F2:82:CYS:SG	12:F2:201:CYC:CAC	2.18	1.30
3:F4:108:ARG:CZ	4:M4:9:GLN:CG	2.10	1.30
4:M4:29:PRO:HG3	11:aA:226:PHE:C	1.54	1.30
3:O4:119:ALA:HB1	5:Z4:72:GLU:CB	1.62	1.30
1:f7:67:ARG:HD3	11:aA:311:LEU:CD2	1.62	1.30
3:H8:111:ASN:CG	11:a9:291:TYR:OH	1.72	1.30
4:M8:104:ALA:HB1	2:P8:14:SER:CA	1.59	1.30
2:N8:115:GLU:HG3	5:Z8:32:PRO:CG	1.57	1.30
2:AA:33:ARG:NH1	12:LA:201:CYC:OB	1.62	1.30
5:NA:61:LYS:NZ	12:TA:301:CYC:HBB2	1.47	1.30
3:J3:84:ARG:HD2	11:a9:668:TYR:CB	1.60	1.30
3:J3:85:ASP:OD1	11:a9:668:TYR:HE2	1.14	1.30
3:B4:86:MET:N	12:B4:202:CYC:CBC	1.95	1.30
5:N3:22:LEU:CD2	5:N3:26:LEU:HD21	1.58	1.30
2:N4:13:ASP:CG	3:O4:108:ARG:NH1	1.90	1.30
8:Q5:17:TYR:CE2	1:R5:44:ILE:CG2	2.15	1.30
6:M6:50:LEU:CD2	8:c7:79:ALA:O	1.79	1.30
10:k5:1018:LEU:CB	10:k5:1021:ALA:HB3	1.62	1.30
8:i7:21:GLY:HA3	8:s7:100:ASP:OD1	1.17	1.30
1:f7:67:ARG:HH22	11:aA:307:ARG:CB	1.44	1.30
3:TA:28:THR:HG21	2:X4:67:THR:C	1.56	1.29
4:M4:87:ILE:HD13	3:Y4:77:ARG:CG	1.61	1.29
8:M5:41:GLN:CD	1:J7:143:PRO:HG3	1.55	1.29
8:Q5:16:ARG:N	1:R5:90:ARG:HD3	1.46	1.29
10:k5:743:VAL:N	12:D7:201:CYC:O2D	1.63	1.29
2:N8:13:ASP:CG	3:O8:108:ARG:NH1	1.89	1.29
3:O8:107:ASP:OD1	5:Z8:66:ARG:CD	1.80	1.29
3:Q8:127:VAL:CG2	12:Z8:301:CYC:CMC	2.09	1.29
12:L9:201:CYC:OB	2:A9:33:ARG:NH1	1.62	1.29
2:G3:107:ASP:HA	3:L3:77:ARG:NH2	1.47	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L2:77:ARG:NH1	6:M2:70:GLU:OE2	1.65	1.29
10:j5:741:GLN:HG3	1:J7:77:ARG:NH2	1.48	1.29
8:o7:6:LYS:NZ	8:o7:102:THR:OG1	1.59	1.29
12:M8:302:CYC:HMC3	3:S8:72:ASN:ND2	1.43	1.29
2:I9:37:SER:O	2:I9:97:LEU:HD11	1.12	1.29
2:G1:107:ASP:HA	3:L1:77:ARG:NH2	1.47	1.29
8:Q5:17:TYR:CE2	1:R5:93:THR:OG1	1.82	1.29
10:j5:1018:LEU:CB	10:j5:1021:ALA:HB3	1.62	1.29
10:k5:1119:LEU:HD12	12:k5:1204:CYC:C4B	1.60	1.29
8:g7:25:ARG:HH21	8:u7:25:ARG:CZ	1.42	1.29
4:M8:127:SER:HB3	12:M8:302:CYC:CMA	1.59	1.29
3:O8:108:ARG:CB	5:Z8:61:LYS:CD	1.97	1.29
4:M9:53:LEU:HD11	12:F9:301:CYC:C4B	1.59	1.29
5:N9:53:LEU:HB3	12:T9:301:CYC:CBA	1.62	1.29
2:K9:15:GLN:O	11:a9:393:ARG:NH1	1.63	1.29
11:aA:476:ARG:NH1	11:aA:488:SER:CB	1.95	1.29
2:O1:33:ARG:NH1	12:Z1:201:CYC:OB	1.62	1.29
4:M4:82:ILE:CD1	12:M4:301:CYC:CGD	2.10	1.29
2:P4:19:LEU:CG	3:Q4:95:TYR:CE1	2.14	1.29
8:O5:29:PHE:CE1	8:O5:98:ALA:O	1.86	1.29
1:J5:71:MEN:CA	1:J5:77:ARG:HH11	1.38	1.29
8:U5:29:PHE:CZ	8:U5:98:ALA:O	1.83	1.29
8:U5:83:ARG:CB	6:M6:26:PHE:HE1	1.44	1.29
8:W5:17:TYR:CE2	1:X5:44:ILE:CG2	2.15	1.29
8:a5:29:PHE:CE1	8:a5:98:ALA:O	1.86	1.29
8:U7:29:PHE:CE1	8:U7:98:ALA:O	1.86	1.29
4:M8:231:THR:H	12:M8:301:CYC:CBB	1.44	1.29
5:N9:61:LYS:NZ	12:T9:301:CYC:HBB2	1.47	1.29
11:a9:239:TYR:CE2	12:a9:901:CYC:C4B	2.15	1.29
3:JA:70:GLY:HA2	11:aA:357:THR:O	1.23	1.29
2:A3:33:ARG:NH1	12:L3:201:CYC:OB	1.62	1.29
2:A4:33:ARG:NH1	12:L4:201:CYC:OB	1.62	1.29
3:L3:119:ALA:CB	11:a9:813:PRO:CB	2.11	1.29
3:L8:109:CYS:HA	12:a9:901:CYC:CBB	1.63	1.29
3:Q8:84:ARG:HG3	5:Z8:31:TRP:NE1	1.48	1.29
4:M9:53:LEU:HD11	12:F9:301:CYC:OB	1.21	1.29
5:N9:1:MET:CG	3:R9:119:ALA:CB	2.11	1.29
11:aA:93:LEU:HD23	11:aA:252:ARG:NH1	1.44	1.29
2:K3:112:GLY:CA	11:a9:670:LEU:CD2	1.97	1.28
4:M4:144:ARG:HH22	5:Z4:59:ARG:NH1	1.28	1.28
4:M4:197:ASP:OD1	5:Z4:52:ARG:NE	1.65	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q5:16:ARG:CA	1:R5:90:ARG:HD3	1.60	1.28
5:Z8:37:HIS:NE2	12:Z8:301:CYC:C4A	1.96	1.28
11:aA:624:GLY:O	11:aA:628:THR:CG2	1.81	1.28
4:MA:274:VAL:N	3:VA:77:ARG:HG2	1.47	1.28
12:B4:202:CYC:CMA	4:M4:58:TYR:H	1.43	1.28
3:B1:88:ILE:HD13	12:B1:202:CYC:C3B	1.63	1.28
8:I7:29:PHE:CE1	8:I7:98:ALA:O	1.86	1.28
2:E1:13:ASP:CG	11:aA:644:ARG:HH11	1.30	1.28
2:X8:67:THR:C	3:T9:28:THR:HG21	1.56	1.28
11:aA:351:THR:CB	11:aA:352:PRO:HD2	1.40	1.28
4:MA:274:VAL:HA	3:VA:77:ARG:CD	1.60	1.28
4:M4:227:GLN:O	3:Y4:88:ILE:HG22	1.30	1.28
1:J5:20:ASP:O	1:J5:22:ALA:N	1.65	1.28
1:Z7:67:ARG:HH22	11:a9:307:ARG:CB	1.44	1.28
4:M8:104:ALA:CA	2:P8:14:SER:HB3	1.64	1.28
11:a9:476:ARG:NH1	11:a9:488:SER:CB	1.95	1.28
3:J3:77:ARG:NH2	2:K3:107:ASP:HA	1.48	1.28
5:N3:36:THR:OG1	12:T3:301:CYC:NB	1.64	1.28
2:N4:13:ASP:OD2	3:O4:108:ARG:NH1	1.63	1.28
8:U5:29:PHE:CE1	8:U5:98:ALA:O	1.86	1.28
10:j5:362:LYS:HD3	10:j5:363:HIS:CD2	1.69	1.28
8:c7:42:THR:CG2	8:c7:141:LEU:CD2	2.04	1.28
5:N1:22:LEU:CD2	5:N1:26:LEU:HD21	1.58	1.28
3:HA:126:SER:HB2	12:HA:202:CYC:CMC	1.62	1.28
2:SA:42:ARG:NH1	3:TA:21:GLU:OE1	1.66	1.28
3:L4:71:GLY:CA	11:aA:82:GLN:HG2	1.61	1.28
5:Z4:41:GLN:O	12:Z4:301:CYC:HMA3	1.12	1.28
1:D5:20:ASP:O	1:D5:22:ALA:N	1.65	1.28
8:W5:16:ARG:N	1:X5:90:ARG:HD3	1.46	1.28
8:W5:17:TYR:CE2	1:X5:44:ILE:HG21	1.68	1.28
10:k5:931:VAL:HG22	1:D7:29:ALA:O	1.30	1.28
1:H7:136:VAL:HG13	11:aA:563:PHE:CZ	1.68	1.28
8:W7:13:ALA:HA	9:w7:46:LYS:NZ	1.45	1.28
8:a7:63:PRO:CD	11:a9:336:ILE:HG22	1.50	1.28
2:N8:14:SER:HB3	5:Z8:62:ARG:CZ	1.64	1.28
11:aA:586:LEU:O	11:aA:590:PRO:HG3	1.14	1.28
3:D4:14:LEU:CD1	3:Y4:125:ARG:HD2	1.62	1.27
1:d5:127:VAL:HG11	10:j5:698:GLY:N	1.48	1.27
3:L6:125:ARG:CD	1:b7:69:GLY:CA	2.08	1.27
6:M6:283:VAL:HG12	8:Y7:75:GLU:CB	1.64	1.27
8:C7:29:PHE:CE1	8:C7:98:ALA:O	1.86	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I7:76:LYS:HZ2	11:aA:567:GLN:NE2	1.28	1.27
8:c7:20:PRO:HG2	8:m7:155:TYR:CB	1.63	1.27
3:D8:108:ARG:HD3	11:a9:107:ARG:NH1	0.94	1.27
3:H8:119:ALA:C	11:a9:266:ASN:CB	2.07	1.27
3:L9:14:LEU:HD11	11:a9:358:PRO:CB	1.64	1.27
11:aA:798:SER:OG	12:aA:901:CYC:HMA1	1.17	1.27
3:FA:150:ARG:HG2	3:F9:150:ARG:CB	1.62	1.27
3:TA:32:LYS:HZ1	2:X4:57:GLN:CA	1.46	1.27
3:TA:32:LYS:HD3	2:X4:57:GLN:NE2	1.46	1.27
12:J3:202:CYC:HMA1	11:a9:798:SER:OG	1.18	1.27
6:M2:62:ARG:NH2	1:h7:58:LYS:HA	1.49	1.27
5:Z4:41:GLN:CG	12:Z4:301:CYC:CMB	2.11	1.27
8:I5:29:PHE:CE1	8:I5:98:ALA:O	1.86	1.27
8:e5:29:PHE:CE1	8:e5:98:ALA:O	1.86	1.27
1:f5:18:TYR:CE1	10:j5:165:ARG:HD3	1.68	1.27
8:m7:29:PHE:CE1	8:m7:98:ALA:O	1.86	1.27
2:X8:57:GLN:NE2	3:T9:32:LYS:HD3	1.46	1.27
3:F8:84:ARG:HD3	11:a9:139:ILE:CG2	1.61	1.27
3:F8:109:CYS:C	4:M8:6:THR:HG22	1.58	1.27
5:N9:54:LEU:HD22	3:T9:84:ARG:NE	1.43	1.27
3:L2:77:ARG:CZ	6:M2:70:GLU:OE2	1.81	1.27
2:E4:1:MET:N	4:M4:10:ARG:NH2	1.78	1.27
4:M4:226:SER:HB2	3:Y4:85:ASP:OD1	1.21	1.27
1:Z5:28:LYS:CD	1:t7:143:PRO:CG	2.09	1.27
8:O7:29:PHE:CE1	8:O7:98:ALA:O	1.86	1.27
8:g7:29:PHE:CE1	8:g7:98:ALA:O	1.86	1.27
3:F8:115:GLU:CD	4:M8:3:VAL:HG22	1.58	1.27
2:N8:115:GLU:CB	5:Z8:32:PRO:CG	2.11	1.27
3:O8:107:ASP:CG	5:Z8:66:ARG:HB3	1.59	1.27
3:J9:70:GLY:HA2	11:a9:357:THR:O	1.21	1.27
11:a9:50:LEU:O	11:a9:53:VAL:HB	1.29	1.27
3:LA:14:LEU:HD11	11:aA:358:PRO:CB	1.65	1.27
5:NA:53:LEU:HB3	12:TA:301:CYC:CBA	1.62	1.27
3:D4:108:ARG:HD3	11:aA:107:ARG:NH1	0.95	1.27
4:M4:138:SER:HB2	4:M4:215:GLU:OE2	1.21	1.27
8:G5:61:ILE:HD11	8:o7:67:SER:CB	1.64	1.27
8:U5:75:GLU:OE1	6:M6:43:TRP:CZ2	1.87	1.27
3:B8:120:LEU:CD1	4:M8:53:LEU:HB2	1.64	1.27
3:Q8:89:ILE:CG2	3:Q8:92:TYR:OH	1.81	1.27
3:L9:52:ILE:CD1	3:L9:87:GLU:HB2	1.64	1.27
4:M9:53:LEU:CD1	12:F9:301:CYC:NB	1.93	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:624:GLY:O	11:a9:628:THR:CG2	1.81	1.27
11:aA:624:GLY:O	11:aA:628:THR:HG22	1.19	1.27
1:A:73:TYR:HE1	10:k5:162:TRP:CH2	1.52	1.27
3:HA:66:LEU:HD22	12:HA:202:CYC:OC	1.18	1.27
2:IA:37:SER:O	2:IA:97:LEU:HD11	1.12	1.27
3:J3:14:LEU:HD22	11:a9:621:THR:CG2	1.64	1.27
6:M2:127:SER:O	12:F2:201:CYC:CBA	1.82	1.27
3:S4:113:LEU:O	3:S4:116:THR:HG22	1.22	1.27
2:N4:63:PHE:HB2	2:N4:66:LEU:CD1	1.64	1.27
1:N5:53:LYS:HD3	8:O5:118:SER:O	1.12	1.27
8:C5:29:PHE:CE1	8:C5:98:ALA:O	1.86	1.27
6:M6:127:SER:HB3	3:F6:84:ARG:NH1	1.50	1.27
10:j5:978:LEU:HD21	1:v7:107:ARG:NH2	0.96	1.27
10:k5:362:LYS:HD3	10:k5:363:HIS:CD2	1.69	1.27
8:i7:25:ARG:NH2	8:s7:6:LYS:CB	1.98	1.27
8:s7:29:PHE:CE1	8:s7:98:ALA:O	1.86	1.27
2:N8:13:ASP:OD2	3:O8:108:ARG:NH1	1.63	1.27
3:H9:66:LEU:HD22	12:H9:202:CYC:OC	1.18	1.27
2:S9:42:ARG:NH1	3:T9:21:GLU:OE1	1.66	1.27
4:M1:232:VAL:HG13	3:V1:111:ASN:O	1.25	1.27
3:B4:82:CYS:HA	12:B4:202:CYC:C1C	1.64	1.26
1:J5:73:TYR:O	1:J5:77:ARG:HD3	1.30	1.26
8:o7:27:LYS:CE	1:p7:35:ALA:CB	2.13	1.26
8:q7:66:VAL:O	11:aA:65:LEU:HD21	1.32	1.26
2:X8:64:PRO:C	3:T9:25:ASN:HB3	1.60	1.26
2:X8:69:PRO:HG2	2:S9:38:MET:O	1.27	1.26
3:Q8:85:ASP:CG	12:Z8:301:CYC:CBC	2.07	1.26
4:M9:181:GLN:NE2	3:V9:120:LEU:HD21	1.50	1.26
11:aA:50:LEU:O	11:aA:53:VAL:HB	1.29	1.26
12:FA:301:CYC:C4B	4:MA:53:LEU:HD11	1.59	1.26
12:R1:201:CYC:NB	5:N1:54:LEU:HD12	1.48	1.26
3:D4:108:ARG:HD3	11:aA:107:ARG:CZ	1.59	1.26
5:N3:54:LEU:HD12	12:R3:201:CYC:NB	1.48	1.26
4:M4:101:ASP:HA	2:P4:13:ASP:CB	1.63	1.26
2:C1:115:GLU:OE2	4:M1:33:LEU:HD23	1.15	1.26
8:c7:15:ALA:C	1:d7:90:ARG:NE	1.93	1.26
4:M8:126:THR:HB	12:M8:302:CYC:O2A	1.20	1.26
11:aA:742:GLN:OE1	3:L1:84:ARG:HG2	1.26	1.26
1:Z:158:SER:CB	1:X5:11:ASN:HD21	1.40	1.26
2:O1:63:PHE:HB2	2:O1:66:LEU:CD1	1.64	1.26
2:A4:63:PHE:HB2	2:A4:66:LEU:CD1	1.64	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O7:49:ARG:NH1	1:r7:114:GLU:OE2	1.69	1.26
8:a7:29:PHE:CE1	8:a7:98:ALA:O	1.86	1.26
1:f7:10:ASN:HB2	9:y7:65:THR:OG1	1.36	1.26
2:X8:74:TYR:OH	2:S9:35:THR:HG22	1.27	1.26
3:F8:107:ASP:CG	4:M8:8:SER:O	1.78	1.26
3:J3:84:ARG:C	11:a9:668:TYR:OH	1.78	1.26
3:B3:88:ILE:HG21	12:B3:202:CYC:CAB	1.65	1.26
3:B1:88:ILE:CG2	12:B1:202:CYC:CMB	2.13	1.26
3:L4:68:ARG:NH1	11:aA:81:ASP:N	1.82	1.26
8:Q5:17:TYR:CE2	1:R5:44:ILE:HG21	1.68	1.26
10:j5:138:PRO:CB	10:j5:201:VAL:HG11	1.65	1.26
12:M8:302:CYC:C2C	3:S8:78:ARG:CD	2.13	1.26
2:N8:63:PHE:HB2	2:N8:66:LEU:CD1	1.64	1.26
5:NA:1:MET:CG	3:RA:119:ALA:CB	2.11	1.26
3:B4:116:THR:CB	4:M4:56:MET:CG	2.03	1.26
12:L3:202:CYC:OB	11:a9:738:LEU:HD22	1.09	1.26
1:d5:161:SER:CB	10:j5:695:GLY:O	1.81	1.26
1:b5:18:TYR:CE2	10:k5:165:ARG:HA	1.70	1.26
10:j5:386:ILE:HG22	10:j5:395:SER:O	1.36	1.26
10:k5:1077:ILE:C	12:k5:1203:CYC:HBA2	1.57	1.26
4:M8:139:VAL:CG2	4:M8:216:ASN:HA	1.65	1.26
4:M8:224:PHE:C	12:M8:301:CYC:O1A	1.76	1.26
2:O9:63:PHE:HB2	2:O9:66:LEU:CD1	1.64	1.26
2:A9:63:PHE:HB2	2:A9:66:LEU:CD1	1.64	1.26
3:HA:126:SER:CB	12:HA:202:CYC:CMC	2.11	1.25
3:LA:52:ILE:CD1	3:LA:87:GLU:HB2	1.64	1.25
2:QA:119:THR:HB	3:TA:83:LEU:CD1	1.62	1.25
3:B4:116:THR:CB	4:M4:56:MET:HG2	1.61	1.25
4:M3:77:LEU:HD11	3:X3:115:GLU:OE2	1.09	1.25
4:M3:232:VAL:HG13	3:V3:111:ASN:O	1.25	1.25
2:O3:63:PHE:HB2	2:O3:66:LEU:CD1	1.64	1.25
2:C1:115:GLU:OE2	4:M1:33:LEU:CD2	1.83	1.25
1:d5:28:LYS:HZ2	1:n7:143:PRO:CG	1.45	1.25
8:S5:41:GLN:OE1	1:D7:143:PRO:HG3	1.20	1.25
10:j5:1008:PHE:CZ	1:v7:87:TYR:HE2	1.37	1.25
8:i7:20:PRO:HG3	8:s7:155:TYR:CD2	1.69	1.25
8:u7:27:LYS:CE	1:v7:35:ALA:CB	2.13	1.25
4:MA:181:GLN:NE2	3:VA:120:LEU:HD21	1.50	1.25
5:NA:61:LYS:HD3	3:TA:108:ARG:O	1.27	1.25
2:A3:63:PHE:HB2	2:A3:66:LEU:CD1	1.64	1.25
10:k5:1150:TYR:CE1	11:a9:38:VAL:HG22	1.71	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U8:108:ARG:CA	4:M8:246:ALA:CB	2.01	1.25
2:K9:15:GLN:CB	11:a9:393:ARG:NH1	1.98	1.25
2:A2:63:PHE:HB2	2:A2:66:LEU:CD1	1.64	1.25
1:Z:110:ASN:OD1	10:j5:462:TYR:CE1	1.90	1.25
2:AA:63:PHE:HB2	2:AA:66:LEU:CD1	1.64	1.25
2:G2:113:LEU:HA	3:L2:76:ASN:ND2	1.51	1.25
2:C3:115:GLU:OE2	4:M3:33:LEU:CD2	1.83	1.25
3:F4:109:CYS:C	4:M4:6:THR:CG2	2.08	1.25
5:NA:54:LEU:HD12	12:TA:301:CYC:NB	1.51	1.25
3:H4:119:ALA:C	11:aA:266:ASN:CB	2.07	1.25
4:M4:144:ARG:NH2	5:Z4:59:ARG:NH1	1.81	1.25
1:T5:53:LYS:HD3	8:U5:118:SER:O	1.12	1.25
8:W5:15:ALA:C	1:X5:90:ARG:HD3	1.59	1.25
10:j5:1119:LEU:HD22	1:t7:87:TYR:OH	1.37	1.25
4:M4:215:GLU:CD	12:Z4:301:CYC:HAB1	1.58	1.25
10:j5:974:LEU:HD12	1:v7:106:GLU:OE2	1.31	1.25
10:j5:1015:TYR:O	10:j5:1017:ARG:CG	1.85	1.25
10:k5:138:PRO:CB	10:k5:201:VAL:HG11	1.65	1.25
2:A6:63:PHE:HB2	2:A6:66:LEU:CD1	1.64	1.25
8:k7:76:LYS:NZ	11:a9:605:PRO:HB3	1.51	1.25
8:u7:37:LEU:CD2	1:v7:24:LEU:CD2	2.14	1.25
4:M8:217:VAL:HG22	5:Z8:30:PRO:CG	1.49	1.25
12:O8:201:CYC:HMA1	5:Z8:53:LEU:CD1	1.65	1.25
3:Q8:120:LEU:HD12	3:Q8:122:THR:N	1.50	1.25
3:L9:14:LEU:CG	11:a9:358:PRO:CB	2.10	1.25
3:F9:153:CYS:CB	12:F9:303:CYC:HAC1	1.66	1.25
11:a9:586:LEU:O	11:a9:590:PRO:HG3	1.14	1.25
11:aA:30:MET:HB3	11:aA:34:ILE:O	1.31	1.25
3:Q8:120:LEU:CD1	3:Q8:122:THR:N	1.98	1.25
4:M9:232:VAL:CG1	3:X9:111:ASN:O	1.84	1.25
11:aA:621:THR:CG2	3:J1:14:LEU:HD22	1.64	1.25
2:A1:63:PHE:HB2	2:A1:66:LEU:CD1	1.64	1.25
3:F4:115:GLU:CG	4:M4:3:VAL:CG1	2.15	1.25
8:Q5:15:ALA:C	1:R5:90:ARG:HD3	1.59	1.25
1:V5:107:ARG:NH2	10:j5:619:GLU:OE1	1.70	1.25
8:W5:17:TYR:CE2	1:X5:93:THR:OG1	1.82	1.25
10:j5:868:ASP:O	9:w7:43:ARG:HD2	1.12	1.25
10:j5:868:ASP:O	9:w7:43:ARG:CD	1.84	1.25
10:k5:803:LYS:NZ	9:z7:40:GLU:OE1	1.65	1.25
8:Q7:25:ARG:HB3	8:C7:25:ARG:NH2	1.42	1.25
1:d7:87:TYR:CE2	9:x7:38:PHE:CZ	2.24	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A8:63:PHE:HB2	2:A8:66:LEU:CD1	1.64	1.25
3:H8:84:ARG:HB3	11:a9:131:TYR:CZ	1.71	1.25
4:M8:226:SER:HB2	3:Y8:85:ASP:OD1	1.08	1.25
5:N9:54:LEU:HD12	12:T9:301:CYC:NB	1.51	1.25
12:B1:202:CYC:CBA	11:aA:684:ASN:CB	2.12	1.25
8:O5:76:LYS:CD	8:O5:77:MET:CE	2.15	1.25
1:V5:114:GLU:CG	10:j5:496:GLU:CG	2.04	1.25
10:j5:803:LYS:NZ	9:w7:40:GLU:OE1	1.67	1.25
10:j5:1146:THR:CB	1:v7:77:ARG:NH2	1.99	1.25
10:k5:1152:TYR:CE2	8:G7:68:PRO:CG	2.16	1.25
3:L8:86:MET:CG	12:a9:901:CYC:HBC1	1.66	1.25
12:M8:302:CYC:C2C	3:S8:78:ARG:HD3	1.65	1.25
11:aA:742:GLN:NE2	3:L1:88:ILE:HG13	0.93	1.25
11:aA:813:PRO:CB	3:L1:119:ALA:CB	2.13	1.25
2:OA:63:PHE:HB2	2:OA:66:LEU:CD1	1.64	1.24
3:TA:25:ASN:HB3	2:X4:64:PRO:C	1.60	1.24
8:U5:76:LYS:CD	8:U5:77:MET:CE	2.15	1.24
10:j5:743:VAL:N	12:J7:201:CYC:O2D	1.70	1.24
10:j5:935:LEU:CD1	1:J7:29:ALA:HB2	1.67	1.24
8:i7:47:ARG:CD	1:j7:18:TYR:CE2	2.05	1.24
9:x7:3:ARG:CZ	9:x7:67:VAL:CG1	2.14	1.24
4:M8:138:SER:HB2	4:M8:215:GLU:OE2	1.21	1.24
11:a9:95:ILE:HD11	11:a9:237:PHE:CE1	1.73	1.24
4:MA:232:VAL:CG1	3:XA:111:ASN:O	1.84	1.24
3:J3:14:LEU:CD2	11:a9:621:THR:CG2	2.15	1.24
3:B4:82:CYS:O	12:B4:202:CYC:HAC2	1.10	1.24
8:G5:61:ILE:CG1	8:o7:68:PRO:HD2	1.65	1.24
1:Z5:127:VAL:HG11	10:k5:698:GLY:CA	1.66	1.24
1:b5:3:ASP:OD2	10:k5:21:MET:HB3	1.35	1.24
8:i7:39:ILE:HD13	8:i7:148:GLU:CG	1.63	1.24
2:N8:14:SER:HB3	5:Z8:62:ARG:CD	1.64	1.24
3:Q8:85:ASP:OD2	12:Z8:301:CYC:HBC3	1.08	1.24
3:F9:150:ARG:NH1	12:F9:302:CYC:C1C	2.00	1.24
11:aA:31:SER:OG	11:aA:34:ILE:HB	1.22	1.24
6:M2:28:ASN:CB	8:O5:80:LEU:HD21	1.61	1.24
5:Z4:24:PRO:HG2	12:Z4:301:CYC:O2A	1.33	1.24
1:b5:38:VAL:CG1	10:k5:40:VAL:CG1	2.16	1.24
10:k5:386:ILE:HG22	10:k5:395:SER:O	1.36	1.24
10:k5:978:LEU:CD2	1:p7:107:ARG:HH21	1.49	1.24
10:k5:1008:PHE:CZ	1:p7:87:TYR:HE2	1.55	1.24
10:k5:1077:ILE:O	12:k5:1203:CYC:CBA	1.85	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M8:104:ALA:CB	2:P8:14:SER:CB	1.78	1.24
3:LA:14:LEU:CG	11:aA:358:PRO:CB	2.11	1.24
2:A1:16:GLY:HA2	11:aA:677:GLN:NE2	1.52	1.24
5:Z4:42:SER:HA	12:Z4:301:CYC:CMA	1.68	1.24
8:G5:61:ILE:CD1	8:o7:67:SER:HB3	1.66	1.24
10:k5:1049:PHE:CE1	10:k5:1065:HIS:HE1	1.55	1.24
8:i7:47:ARG:CD	1:j7:18:TYR:CE1	2.18	1.24
12:B8:202:CYC:CBB	4:M8:61:ASN:HB2	1.66	1.24
8:o7:37:LEU:HD22	1:p7:24:LEU:CD2	1.68	1.24
3:Q8:120:LEU:CD1	3:Q8:122:THR:H	1.50	1.24
4:M9:274:VAL:HA	3:V9:77:ARG:CD	1.68	1.24
3:B9:26:GLN:O	3:B9:30:LEU:CD1	1.86	1.24
4:M4:223:GLY:O	12:M4:301:CYC:HBA2	1.33	1.24
3:O4:107:ASP:OD1	5:Z4:66:ARG:HD2	1.11	1.24
6:M6:277:GLY:HA2	1:d7:62:TYR:O	1.08	1.24
10:k5:1015:TYR:O	10:k5:1017:ARG:CG	1.85	1.24
3:H9:126:SER:HB2	12:H9:202:CYC:CMC	1.67	1.24
11:aA:707:PHE:CE2	3:L1:108:ARG:NH1	2.06	1.24
2:QA:76:ASP:HB3	2:U1:140:SER:O	1.34	1.23
3:TA:28:THR:HG21	2:X4:67:THR:CB	1.61	1.23
6:M2:127:SER:HB3	3:F2:84:ARG:NH1	1.50	1.23
3:S4:72:ASN:ND2	3:S4:123:PRO:HD3	1.49	1.23
3:U4:108:ARG:CA	4:M4:246:ALA:CB	2.16	1.23
1:f5:161:SER:O	1:V5:101:PRO:CG	1.86	1.23
1:b5:3:ASP:OD2	10:k5:21:MET:CB	1.83	1.23
10:j5:924:ASP:OD1	1:J7:26:LYS:NZ	1.68	1.23
8:u7:90:ARG:HD3	1:v7:18:TYR:CE1	1.73	1.23
9:z7:4:TYR:O	9:z7:56:LEU:O	1.56	1.23
9:y7:3:ARG:CZ	9:y7:67:VAL:CG1	2.14	1.23
2:QA:68:GLN:HA	2:U1:46:SER:CB	1.66	1.23
4:M4:100:SER:N	3:Q4:1:MET:CE	2.00	1.23
3:Q4:72:ASN:CG	12:Z4:301:CYC:HMD2	1.61	1.23
1:d5:28:LYS:CD	1:n7:143:PRO:CB	2.16	1.23
8:i7:42:THR:CG2	8:i7:141:LEU:CD2	2.04	1.23
3:H9:126:SER:CB	12:H9:202:CYC:CMC	2.15	1.23
4:M1:77:LEU:HD11	3:X1:115:GLU:OE2	1.09	1.23
3:DA:115:GLU:OE2	4:MA:76:ALA:O	1.56	1.23
3:FA:150:ARG:HA	3:F9:150:ARG:CG	1.69	1.23
3:TA:32:LYS:NZ	2:X4:57:GLN:HA	1.52	1.23
1:d5:161:SER:HB3	10:j5:695:GLY:O	1.35	1.23
8:A7:56:ASP:OD1	11:aA:586:LEU:HD11	1.10	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1049:PHE:CE1	10:j5:1065:HIS:HE1	1.55	1.23
10:j5:1150:TYR:CE1	11:aA:38:VAL:HG22	1.74	1.23
8:u7:90:ARG:HD3	1:v7:18:TYR:CD1	1.73	1.23
4:M9:232:VAL:HG13	3:X9:111:ASN:O	1.14	1.23
11:a9:56:ILE:HD11	11:a9:612:TYR:CE2	1.74	1.23
2:SA:38:MET:O	2:X4:69:PRO:HG2	1.27	1.23
1:Z5:110:ASN:HD21	10:k5:451:LYS:CB	1.51	1.23
10:k5:966:SER:CA	1:p7:14:VAL:HG11	1.51	1.23
8:o7:37:LEU:CD2	1:p7:24:LEU:CD2	2.14	1.23
1:p7:136:VAL:HG13	11:a9:342:ARG:NH1	1.52	1.23
3:F8:84:ARG:CD	11:a9:139:ILE:CG2	2.15	1.23
11:aA:55:ASP:HB3	11:aA:612:TYR:CB	1.68	1.23
3:H4:84:ARG:NE	11:aA:131:TYR:CD2	2.04	1.23
5:Z4:44:TYR:CE2	5:Z4:46:THR:OG1	1.91	1.23
6:M6:127:SER:O	12:F6:201:CYC:HBA1	1.39	1.23
8:o7:90:ARG:HD3	1:p7:18:TYR:CD1	1.73	1.23
2:X8:57:GLN:CA	3:T9:32:LYS:HZ1	1.52	1.23
11:aA:95:ILE:HD11	11:aA:237:PHE:CE1	1.72	1.23
2:EA:115:GLU:OE2	4:MA:33:LEU:HD23	1.39	1.22
12:B4:202:CYC:CBB	4:M4:61:ASN:HB2	1.66	1.22
3:U4:108:ARG:CA	4:M4:246:ALA:HB2	1.67	1.22
12:L4:202:CYC:OB	11:aA:239:TYR:HD1	1.06	1.22
11:aA:745:GLY:HA3	2:K1:15:GLN:CA	1.69	1.22
4:MA:157:PHE:O	3:VA:108:ARG:HD2	1.06	1.22
3:L2:77:ARG:HH22	6:M2:70:GLU:CD	1.45	1.22
3:Z3:119:ALA:CB	4:M3:263:PRO:HB2	1.70	1.22
3:H4:84:ARG:HB3	11:aA:131:TYR:CZ	1.72	1.22
1:X5:110:ASN:OD1	10:j5:466:LEU:HB2	1.33	1.22
1:Z5:28:LYS:NZ	1:t7:143:PRO:HB2	1.40	1.22
10:k5:156:SER:OG	12:k5:1201:CYC:H3C	1.35	1.22
10:k5:362:LYS:CD	10:k5:363:HIS:CD2	2.21	1.22
10:k5:889:LEU:HD23	12:D7:201:CYC:CBB	1.49	1.22
8:O7:52:LYS:HE3	11:aA:29:ARG:NH1	1.53	1.22
8:o7:90:ARG:HD3	1:p7:18:TYR:CE1	1.73	1.22
3:Q8:89:ILE:HG23	3:Q8:92:TYR:OH	1.10	1.22
4:M9:274:VAL:N	3:V9:77:ARG:HG2	1.53	1.22
11:aA:621:THR:CG2	3:J1:14:LEU:CD2	2.15	1.22
11:aA:710:THR:CG2	11:aA:807:GLN:CG	2.16	1.22
11:aA:817:LEU:HD12	3:L1:119:ALA:O	1.33	1.22
3:BA:26:GLN:O	3:BA:30:LEU:CD1	1.86	1.22
2:A3:16:GLY:HA2	11:a9:677:GLN:NE2	1.51	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X5:63:SER:OG	10:j5:706:PRO:HA	1.35	1.22
8:O7:25:ARG:HH21	8:E7:25:ARG:CB	1.52	1.22
8:i7:94:TYR:CZ	1:j7:9:ILE:HG23	1.73	1.22
2:E8:1:MET:N	4:M8:10:ARG:HH21	1.37	1.22
2:X8:57:GLN:HA	3:T9:32:LYS:NZ	1.52	1.22
3:F8:115:GLU:OE2	4:M8:3:VAL:HG22	1.38	1.22
11:a9:30:MET:HB3	11:a9:34:ILE:O	1.31	1.22
11:a9:55:ASP:HB3	11:a9:612:TYR:CB	1.68	1.22
11:a9:239:TYR:HE2	12:a9:901:CYC:OB	0.90	1.22
11:aA:738:LEU:HD22	12:aA:902:CYC:OB	1.08	1.22
3:L4:66:LEU:N	11:aA:82:GLN:OE1	1.72	1.22
8:U5:83:ARG:CG	6:M6:31:ASP:OD1	1.87	1.22
1:Z5:28:LYS:CE	1:t7:143:PRO:CG	2.18	1.22
8:o7:121:THR:CG2	12:o7:201:CYC:HMC3	1.68	1.22
8:u7:121:THR:CG2	12:u7:201:CYC:HMC3	1.68	1.22
3:L8:82:CYS:SG	12:a9:901:CYC:CAC	2.28	1.22
3:L9:14:LEU:CD2	11:a9:358:PRO:CB	1.86	1.22
6:M2:37:GLU:OE2	8:O5:59:PHE:CD2	1.92	1.22
3:B4:120:LEU:HD11	4:M4:53:LEU:N	1.54	1.22
12:B4:202:CYC:HMA2	4:M4:58:TYR:N	1.55	1.22
1:B5:14:VAL:CG1	10:k5:554:ASN:O	1.85	1.22
1:T5:110:ASN:CG	10:j5:692:LEU:O	1.80	1.22
8:W5:15:ALA:C	1:X5:90:ARG:CD	2.12	1.22
8:c7:96:ILE:CG1	8:c7:152:TYR:CD1	2.22	1.22
12:D8:202:CYC:O2A	4:M8:35:THR:HB	1.38	1.22
3:Q8:120:LEU:CD1	3:Q8:122:THR:CB	2.16	1.22
2:I9:37:SER:O	2:I9:97:LEU:CD1	1.88	1.22
11:a9:239:TYR:CE2	12:a9:901:CYC:NB	2.08	1.22
6:M2:26:PHE:CZ	8:O5:87:TYR:HD1	1.40	1.21
3:L4:68:ARG:HB2	11:aA:82:GLN:N	1.50	1.21
10:j5:766:ALA:CB	8:K7:14:GLU:OE2	1.88	1.21
10:j5:1018:LEU:HD13	10:j5:1035:PHE:CE2	1.74	1.21
10:k5:743:VAL:CG1	12:D7:201:CYC:O2D	1.87	1.21
10:k5:966:SER:CA	1:p7:14:VAL:HG12	1.52	1.21
8:i7:96:ILE:CG1	8:i7:152:TYR:CD1	2.22	1.21
4:M8:91:VAL:HG22	2:P8:14:SER:O	1.27	1.21
11:aA:56:ILE:HD11	11:aA:612:TYR:CE2	1.74	1.21
11:aA:742:GLN:CD	3:L1:88:ILE:HG13	1.58	1.21
11:aA:800:THR:CG2	12:aA:901:CYC:CAA	2.18	1.21
3:HA:116:THR:OG1	11:aA:449:ASN:ND2	1.73	1.21
3:H3:78:ARG:NH2	11:a9:623:ASP:CB	2.03	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q5:15:ALA:C	1:R5:90:ARG:CD	2.12	1.21
10:j5:362:LYS:CD	10:j5:363:HIS:CD2	2.21	1.21
10:j5:978:LEU:HD21	1:v7:107:ARG:CZ	1.69	1.21
10:k5:741:GLN:O	1:D7:77:ARG:NH2	1.71	1.21
8:o7:23:LEU:HD22	1:p7:38:VAL:CA	1.69	1.21
8:u7:37:LEU:HD22	1:v7:24:LEU:CD2	1.68	1.21
4:M8:231:THR:N	12:M8:301:CYC:CBB	1.98	1.21
5:Z8:38:GLU:CB	12:Z8:301:CYC:CMB	2.11	1.21
3:F9:153:CYS:HB2	12:F9:303:CYC:CAC	1.67	1.21
5:NA:1:MET:SD	3:RA:119:ALA:HB1	1.81	1.21
5:N3:62:ARG:NH2	2:Q3:14:SER:HB3	1.54	1.21
4:M4:27:HIS:ND1	4:M4:35:THR:N	1.83	1.21
10:j5:1055:SER:OG	12:r7:201:CYC:HBB2	1.33	1.21
10:k5:974:LEU:HG	1:p7:1:MET:N	1.53	1.21
10:k5:1018:LEU:HD13	10:k5:1035:PHE:CE2	1.74	1.21
8:q7:75:GLU:O	11:aA:53:VAL:HG11	1.34	1.21
3:L9:14:LEU:CD1	11:a9:358:PRO:CB	2.19	1.21
2:E9:2:LYS:NZ	2:I9:17:ARG:NH1	1.88	1.21
11:aA:708:HIS:CB	3:L1:108:ARG:HH21	1.52	1.21
12:B3:202:CYC:CAA	11:a9:684:ASN:HB3	1.70	1.21
3:F4:1:MET:CA	4:M4:10:ARG:O	1.74	1.21
1:N5:53:LYS:HZ1	8:O5:120:GLN:NE2	1.27	1.21
10:k5:284:PRO:CG	10:k5:326:GLY:CA	1.93	1.21
10:k5:978:LEU:HD21	1:p7:107:ARG:CZ	1.69	1.21
10:k5:1013:PRO:CB	8:k7:114:GLU:OE2	1.88	1.21
1:Z7:67:ARG:HD3	11:a9:311:LEU:CD2	1.70	1.21
1:d7:77:ARG:NH2	9:x7:63:ALA:CB	2.03	1.21
8:u7:23:LEU:HD22	1:v7:38:VAL:CA	1.69	1.21
3:U8:114:LYS:HZ1	4:M8:13:LYS:CD	1.54	1.21
3:F8:109:CYS:CA	4:M8:6:THR:HG22	1.69	1.21
4:M9:76:ALA:O	3:D9:115:GLU:OE2	1.56	1.21
4:M9:157:PHE:O	3:V9:108:ARG:HD2	1.06	1.21
2:K9:15:GLN:CA	11:a9:393:ARG:NH1	2.03	1.21
2:IA:37:SER:O	2:IA:97:LEU:CD1	1.88	1.21
6:M2:26:PHE:CE1	8:O5:87:TYR:CD1	2.12	1.21
6:M2:37:GLU:OE2	8:O5:59:PHE:HD2	1.18	1.21
6:M2:127:SER:O	12:F2:201:CYC:HBA1	1.03	1.21
3:B4:119:ALA:CB	4:M4:69:ILE:HG21	1.70	1.21
3:L3:104:VAL:HB	3:L3:108:ARG:NH2	1.56	1.21
8:M5:66:VAL:CG1	8:K7:68:PRO:HG3	1.70	1.21
10:j5:935:LEU:HD13	1:J7:29:ALA:CB	1.70	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c7:96:ILE:CG1	8:c7:152:TYR:CG	2.24	1.21
2:N8:14:SER:HB3	5:Z8:62:ARG:NE	0.88	1.21
11:aA:403:THR:CG2	11:aA:536:THR:HG22	1.65	1.21
3:DA:108:ARG:O	4:MA:6:THR:CG2	1.90	1.20
3:FA:151:GLY:CA	3:F9:150:ARG:HH21	1.52	1.20
3:TA:28:THR:HG22	2:X4:67:THR:CB	1.62	1.20
12:B3:202:CYC:CBA	11:a9:684:ASN:CB	2.08	1.20
3:F4:109:CYS:N	4:M4:6:THR:CG2	2.03	1.20
2:N4:14:SER:CB	5:Z4:62:ARG:HD2	1.71	1.20
1:N5:83:ARG:NH1	10:k5:483:PHE:CZ	2.09	1.20
3:Y4:88:ILE:HG22	3:Y4:91:ARG:NH2	1.56	1.20
1:d5:28:LYS:CD	1:n7:143:PRO:HG3	1.71	1.20
8:Q5:16:ARG:HA	1:R5:90:ARG:NH1	1.54	1.20
10:j5:387:VAL:O	10:j5:394:PRO:HG2	1.41	1.20
10:k5:1152:TYR:CD2	8:G7:68:PRO:HG3	1.70	1.20
3:Q8:85:ASP:OD2	12:Z8:301:CYC:CBC	1.87	1.20
3:H9:116:THR:OG1	11:a9:449:ASN:ND2	1.72	1.20
11:aA:666:ASN:HB3	12:aA:901:CYC:NB	1.56	1.20
11:aA:800:THR:HG21	12:aA:901:CYC:CAA	1.68	1.20
2:Q1:14:SER:HB3	5:N1:62:ARG:NH2	1.54	1.20
6:M2:39:ARG:CZ	8:O5:66:VAL:HG11	1.70	1.20
6:M2:62:ARG:NH2	1:h7:58:LYS:CA	2.02	1.20
12:L3:202:CYC:HB	11:a9:738:LEU:HD13	1.06	1.20
8:W5:16:ARG:HA	1:X5:90:ARG:NH1	1.54	1.20
8:i7:20:PRO:CG	8:s7:155:TYR:CD2	2.23	1.20
8:c7:39:ILE:HD13	8:c7:148:GLU:CG	1.63	1.20
8:o7:97:VAL:HG21	1:p7:19:LEU:CD1	1.71	1.20
2:X8:60:TYR:CD2	3:T9:32:LYS:CE	1.97	1.20
4:M8:126:THR:CB	12:M8:302:CYC:O2A	1.87	1.20
3:O8:108:ARG:CB	5:Z8:61:LYS:HD3	1.61	1.20
3:L9:52:ILE:CD1	3:L9:87:GLU:CB	2.20	1.20
3:J9:111:ASN:O	11:a9:518:ALA:C	1.82	1.20
3:TA:32:LYS:CE	2:X4:60:TYR:CD2	1.97	1.20
12:R1:201:CYC:NB	5:N1:54:LEU:CD1	2.04	1.20
3:J3:120:LEU:CD2	11:a9:800:THR:HG21	1.72	1.20
2:K3:15:GLN:CA	11:a9:745:GLY:HA3	1.70	1.20
6:M2:276:PRO:HB2	1:j7:63:SER:OG	1.40	1.20
3:B3:88:ILE:HG21	12:B3:202:CYC:C3B	1.71	1.20
5:N3:54:LEU:CD1	12:R3:201:CYC:NB	2.04	1.20
3:Y4:89:ILE:HG23	3:Y4:92:TYR:OH	1.05	1.20
8:C5:2:SER:OG	1:D5:3:ASP:OD2	1.59	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j7:77:ARG:NH2	9:y7:63:ALA:HB3	1.54	1.20
3:Y8:89:ILE:HG23	3:Y8:92:TYR:OH	1.05	1.20
11:a9:710:THR:CG2	11:a9:807:GLN:CG	2.16	1.20
11:aA:283:GLN:CB	11:aA:284:PRO:CD	2.01	1.20
1:A:107:ARG:NH2	8:a5:12:ASP:OD2	1.75	1.20
12:J3:202:CYC:CMA	11:a9:798:SER:OG	1.90	1.20
3:F4:84:ARG:CD	11:aA:139:ILE:CG2	2.14	1.20
3:Q4:102:ALA:HB2	3:Q4:166:LYS:CE	1.71	1.20
8:W5:12:ASP:CA	1:X5:94:TYR:CE2	2.25	1.20
10:k5:930:LEU:C	1:D7:33:THR:HG21	1.65	1.20
10:k5:938:GLN:OE1	1:D7:28:LYS:CD	1.90	1.20
12:M8:302:CYC:CMD	3:S8:77:ARG:HH22	1.55	1.20
5:Z8:41:GLN:HG2	12:Z8:301:CYC:CBB	1.70	1.20
11:aA:776:TYR:N	12:H1:201:CYC:HBA1	1.56	1.20
3:LA:14:LEU:CD1	11:aA:358:PRO:CB	2.20	1.20
6:M2:26:PHE:CZ	8:O5:87:TYR:CD1	2.17	1.20
10:k5:938:GLN:OE1	1:D7:28:LYS:CG	1.90	1.20
8:i7:96:ILE:CG1	8:i7:152:TYR:CG	2.24	1.20
3:U8:115:GLU:HB3	4:M8:74:LEU:CD1	1.49	1.20
3:F8:107:ASP:HB2	4:M8:8:SER:C	1.40	1.20
4:M9:6:THR:CG2	3:D9:108:ARG:O	1.90	1.20
4:M9:158:PHE:C	3:V9:108:ARG:HD3	1.67	1.20
11:a9:275:THR:C	11:a9:278:LEU:CD1	2.15	1.20
2:EA:2:LYS:NZ	2:IA:17:ARG:NH1	1.88	1.19
2:A3:63:PHE:HB2	2:A3:66:LEU:HD11	1.20	1.19
5:Z4:41:GLN:CG	12:Z4:301:CYC:C2B	2.20	1.19
1:f5:114:GLU:HG2	10:j5:491:THR:OG1	1.37	1.19
8:W5:16:ARG:CA	1:X5:90:ARG:NH1	2.06	1.19
10:k5:931:VAL:HG13	1:D7:29:ALA:CB	1.72	1.19
8:c7:16:ARG:C	1:d7:90:ARG:CD	2.16	1.19
8:c7:20:PRO:CD	8:m7:155:TYR:HB2	1.72	1.19
12:B8:202:CYC:CMA	4:M8:58:TYR:N	2.02	1.19
3:U8:108:ARG:CB	4:M8:246:ALA:HB2	1.71	1.19
3:U8:120:LEU:CD2	12:U8:201:CYC:HBD1	1.70	1.19
3:F8:108:ARG:C	4:M8:6:THR:HG21	1.67	1.19
4:M8:91:VAL:CB	2:P8:14:SER:O	1.90	1.19
11:aA:798:SER:OG	12:aA:901:CYC:CMA	1.89	1.19
4:M1:263:PRO:HB2	3:Z1:119:ALA:CB	1.70	1.19
2:K3:13:ASP:OD2	11:a9:707:PHE:CZ	1.95	1.19
3:U4:120:LEU:CD1	12:U4:201:CYC:HBD1	1.69	1.19
3:F4:109:CYS:CA	4:M4:6:THR:HG22	1.72	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U8:114:LYS:NZ	4:M8:13:LYS:CD	2.05	1.19
3:U8:114:LYS:CE	4:M8:13:LYS:NZ	2.04	1.19
4:M9:274:VAL:C	3:V9:77:ARG:HE	1.51	1.19
5:Z8:41:GLN:HG2	12:Z8:301:CYC:CAB	1.72	1.19
5:Z8:41:GLN:CG	12:Z8:301:CYC:CBB	2.17	1.19
12:J9:202:CYC:CGA	11:a9:511:LYS:HD3	1.71	1.19
11:aA:666:ASN:HB3	12:aA:901:CYC:OB	1.40	1.19
11:aA:670:LEU:CD2	2:K1:112:GLY:CA	1.96	1.19
3:FA:150:ARG:HA	3:F9:150:ARG:NE	1.58	1.19
3:JA:111:ASN:O	11:aA:518:ALA:C	1.82	1.19
3:LA:52:ILE:CD1	3:LA:87:GLU:CB	2.20	1.19
2:S1:16:GLY:CA	5:N1:31:TRP:CD1	2.25	1.19
3:H4:119:ALA:O	11:aA:266:ASN:CB	1.89	1.19
4:M4:214:GLY:CA	5:Z4:27:ALA:O	1.90	1.19
8:e5:45:GLU:OE1	1:R5:139:GLY:HA2	1.17	1.19
1:f5:114:GLU:CG	10:j5:491:THR:OG1	1.90	1.19
8:Q5:12:ASP:CA	1:R5:94:TYR:CE2	2.25	1.19
10:j5:971:VAL:HG12	12:j5:1202:CYC:O1D	1.43	1.19
8:c7:11:ALA:C	1:d7:94:TYR:OH	1.85	1.19
12:B8:202:CYC:O1A	4:M8:54:ALA:CB	1.73	1.19
8:o7:103:PRO:HG3	1:p7:9:ILE:HD13	1.23	1.19
9:w7:4:TYR:O	9:w7:56:LEU:O	1.56	1.19
4:M8:197:ASP:CB	5:Z8:52:ARG:HG3	1.73	1.19
12:M8:301:CYC:H3C	3:Y8:127:VAL:CG2	1.72	1.19
11:aA:623:ASP:CB	3:H1:78:ARG:NH2	2.04	1.19
11:aA:694:ARG:NH2	4:M1:51:ARG:HH21	1.39	1.19
4:MA:160:THR:O	3:VA:108:ARG:NH2	1.74	1.19
12:J3:202:CYC:OB	11:a9:666:ASN:HB3	1.41	1.19
6:M2:28:ASN:HB2	8:O5:80:LEU:HG	1.23	1.19
12:B4:202:CYC:CMA	4:M4:58:TYR:N	2.02	1.19
3:U4:108:ARG:CB	4:M4:246:ALA:HB2	1.71	1.19
3:F4:113:LEU:H	4:M4:5:THR:CA	1.56	1.19
1:Z5:83:ARG:NH1	10:k5:379:PHE:HE2	1.38	1.19
1:b5:6:THR:HG22	10:k5:19:THR:OG1	1.42	1.19
10:k5:1119:LEU:HD12	12:k5:1204:CYC:OB	1.02	1.19
8:g7:25:ARG:NH2	8:u7:25:ARG:CZ	2.03	1.19
8:i7:25:ARG:NH1	8:s7:6:LYS:CB	2.06	1.19
3:F8:107:ASP:C	4:M8:6:THR:O	1.86	1.19
5:N9:1:MET:SD	3:R9:119:ALA:HB1	1.81	1.19
3:H9:120:LEU:CD1	12:H9:202:CYC:CAA	2.20	1.19
11:a9:601:ALA:O	11:a9:604:ALA:HB2	1.39	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:SER:OG	1:R5:14:VAL:HG23	1.37	1.19
12:B4:202:CYC:O1A	4:M4:54:ALA:CB	1.73	1.19
3:F4:115:GLU:OE2	4:M4:3:VAL:CG2	1.91	1.19
8:M5:19:SER:OG	8:A5:6:LYS:NZ	1.76	1.19
8:S5:41:GLN:CD	1:D7:143:PRO:HG3	1.66	1.19
6:M6:53:LEU:HD23	8:c7:80:LEU:CG	1.73	1.19
1:f7:64:ASP:OD2	11:aA:307:ARG:NE	1.57	1.19
8:u7:103:PRO:HG3	1:v7:9:ILE:HD13	1.23	1.19
4:M8:128:ALA:O	4:M8:142:PHE:CE1	1.96	1.19
2:N8:115:GLU:OE1	5:Z8:33:GLY:N	1.76	1.19
2:N8:115:GLU:CD	5:Z8:32:PRO:HD2	1.67	1.19
3:F1:116:THR:OG1	4:M1:38:PRO:O	1.58	1.19
1:Z:127:VAL:HG11	1:X5:15:GLN:CG	1.74	1.18
3:J3:84:ARG:CD	11:a9:668:TYR:HD1	1.18	1.18
5:N3:31:TRP:CD1	2:S3:16:GLY:CA	2.25	1.18
5:N3:66:ARG:NH1	3:R3:111:ASN:HD21	1.39	1.18
4:M4:228:SER:CB	2:X4:16:GLY:HA2	1.71	1.18
3:Q4:120:LEU:HD11	5:Z4:40:SER:N	1.57	1.18
8:K5:36:ARG:NH1	8:U5:24:ASP:OD2	1.76	1.18
10:j5:974:LEU:CG	1:v7:1:MET:H3	1.51	1.18
10:k5:974:LEU:HD12	1:p7:106:GLU:OE2	1.40	1.18
3:B8:68:ARG:CZ	3:U8:68:ARG:HH22	1.55	1.18
3:H8:119:ALA:O	11:a9:266:ASN:CB	1.87	1.18
11:a9:75:ALA:CB	11:a9:81:ASP:CB	2.19	1.18
11:a9:632:ILE:HG22	11:a9:634:ALA:N	1.57	1.18
11:aA:707:PHE:CZ	2:K1:13:ASP:OD2	1.96	1.18
3:TA:28:THR:CG2	2:X4:67:THR:OG1	1.92	1.18
6:M2:277:GLY:CA	1:j7:62:TYR:O	1.91	1.18
3:F4:107:ASP:CA	4:M4:8:SER:H	1.55	1.18
3:F4:108:ARG:NE	4:M4:9:GLN:HG3	0.87	1.18
4:M4:144:ARG:NE	4:M4:204:ILE:CG2	2.06	1.18
1:d5:28:LYS:HD3	1:n7:143:PRO:CB	1.72	1.18
1:R5:110:ASN:OD1	10:k5:466:LEU:HB2	1.43	1.18
8:U5:75:GLU:CD	6:M6:32:MET:HE1	1.68	1.18
11:a9:351:THR:HB	11:a9:352:PRO:CD	1.74	1.18
11:aA:275:THR:C	11:aA:278:LEU:CD1	2.15	1.18
11:aA:601:ALA:O	11:aA:604:ALA:HB2	1.39	1.18
11:aA:621:THR:HG22	3:J1:14:LEU:CD1	1.70	1.18
4:MA:58:TYR:CG	11:aA:496:ARG:NH2	2.12	1.18
3:TA:28:THR:HG22	2:X4:67:THR:OG1	1.42	1.18
3:J3:84:ARG:HH22	11:a9:670:LEU:N	1.41	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B4:68:ARG:CZ	3:U4:68:ARG:HH22	1.55	1.18
3:L3:119:ALA:O	11:a9:817:LEU:HD12	1.32	1.18
3:O4:107:ASP:OD1	5:Z4:66:ARG:CD	1.90	1.18
8:I5:27:LYS:HA	8:I5:30:VAL:HG22	1.20	1.18
1:d5:28:LYS:CD	1:n7:143:PRO:CG	2.21	1.18
1:X5:110:ASN:OD1	10:j5:466:LEU:CB	1.90	1.18
10:k5:966:SER:CB	1:p7:14:VAL:HG11	1.74	1.18
8:c7:16:ARG:N	1:d7:90:ARG:NE	1.92	1.18
3:D8:108:ARG:HD3	11:a9:107:ARG:CZ	1.59	1.18
8:q7:45:GLU:OE1	3:H1:125:ARG:NH2	1.74	1.18
8:u7:18:LEU:HD13	1:v7:97:LEU:CD1	1.74	1.18
2:A9:63:PHE:HB2	2:A9:66:LEU:HD11	1.20	1.18
3:H9:78:ARG:NH1	12:H9:202:CYC:O2D	1.76	1.18
11:aA:75:ALA:HB1	11:aA:81:ASP:OD1	1.43	1.18
5:N1:22:LEU:HD22	5:N1:26:LEU:CG	1.74	1.18
12:FA:301:CYC:OB	4:MA:53:LEU:HD11	1.21	1.18
12:JA:202:CYC:CGA	11:aA:511:LYS:HD3	1.72	1.18
2:O1:63:PHE:HB2	2:O1:66:LEU:HD11	1.20	1.18
12:J3:202:CYC:NB	11:a9:666:ASN:HB3	1.57	1.18
3:B1:88:ILE:HD13	12:B1:202:CYC:C2B	1.72	1.18
4:M4:82:ILE:HD11	12:M4:301:CYC:CGD	1.71	1.18
4:M4:138:SER:CB	12:Z4:301:CYC:HBB1	1.72	1.18
5:Z4:41:GLN:HG3	12:Z4:301:CYC:HMB1	1.26	1.18
1:b5:5:ILE:CD1	10:k5:46:PHE:CZ	2.27	1.18
8:u7:97:VAL:HG21	1:v7:19:LEU:CD1	1.71	1.18
2:X8:67:THR:OG1	3:T9:28:THR:HG22	1.42	1.18
3:O8:104:VAL:HA	5:Z8:61:LYS:NZ	1.55	1.18
3:Q8:127:VAL:HG22	12:Z8:301:CYC:HMC1	1.23	1.18
5:Z8:41:GLN:OE1	12:Z8:301:CYC:HBB2	1.03	1.18
3:B3:88:ILE:CG2	12:B3:202:CYC:CAB	2.19	1.18
3:F4:108:ARG:HE	4:M4:9:GLN:CG	1.43	1.18
3:Q4:120:LEU:HD21	5:Z4:42:SER:CB	1.74	1.18
12:H5:201:CYC:CBA	9:i5:26:THR:HG21	1.74	1.18
10:k5:387:VAL:O	10:k5:394:PRO:HG2	1.41	1.18
2:N8:115:GLU:HB2	5:Z8:32:PRO:CG	1.71	1.18
4:M9:33:LEU:HD23	2:E9:115:GLU:OE2	1.39	1.18
4:M9:162:ASN:H	12:V9:201:CYC:HBB3	1.07	1.18
5:N9:22:LEU:HD22	5:N9:26:LEU:CG	1.74	1.18
3:FA:153:CYS:SG	12:F9:302:CYC:CAC	2.32	1.17
4:M3:205:ASP:OD2	5:N3:52:ARG:NH1	1.76	1.17
3:Q4:78:ARG:HD3	12:Z4:301:CYC:HAD1	1.24	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z4:26:LEU:HD21	5:Z4:63:ASN:CB	1.73	1.17
3:J6:108:ARG:NE	6:M6:155:ASN:O	1.76	1.17
6:M6:277:GLY:HA2	1:d7:62:TYR:C	1.67	1.17
10:j5:387:VAL:O	10:j5:394:PRO:CG	1.92	1.17
3:U8:112:GLY:CA	4:M8:74:LEU:HD21	1.74	1.17
3:F8:109:CYS:N	4:M8:6:THR:HG22	1.57	1.17
3:J3:84:ARG:NH2	11:a9:669:ILE:O	1.77	1.17
6:M2:62:ARG:NH2	1:h7:58:LYS:C	2.01	1.17
2:N4:111:ALA:O	5:Z4:34:LEU:HB2	1.43	1.17
8:I5:2:SER:OG	1:J5:3:ASP:OD2	1.59	1.17
8:U5:76:LYS:CG	8:U5:77:MET:HE2	1.74	1.17
10:j5:971:VAL:CG1	1:t7:76:ARG:NH1	2.05	1.17
10:k5:1037:ARG:NH1	10:k5:1098:GLU:OE2	1.76	1.17
8:Q7:12:ASP:O	9:z7:46:LYS:NZ	1.76	1.17
1:R7:118:SER:O	9:z7:61:GLN:NE2	1.77	1.17
1:f7:10:ASN:CB	9:y7:65:THR:OG1	1.93	1.17
3:B8:119:ALA:CB	4:M8:69:ILE:HG21	1.74	1.17
8:o7:103:PRO:CB	1:p7:9:ILE:HG21	1.75	1.17
4:M8:56:MET:HE1	4:M8:66:VAL:CG2	1.74	1.17
1:A:158:SER:HB3	1:R5:11:ASN:ND2	1.31	1.17
12:J3:202:CYC:O1D	11:a9:802:ARG:NE	1.76	1.17
3:D4:108:ARG:HD2	11:aA:107:ARG:HH12	1.08	1.17
3:B1:115:GLU:OE2	4:M1:76:ALA:O	1.63	1.17
12:U4:201:CYC:HBA2	4:M4:252:LEU:O	1.40	1.17
4:M4:29:PRO:HG3	11:aA:226:PHE:CA	1.72	1.17
4:M4:138:SER:HB3	12:Z4:301:CYC:HBB1	1.20	1.17
8:O5:76:LYS:CG	8:O5:77:MET:HE2	1.74	1.17
3:Y4:89:ILE:HA	3:Y4:92:TYR:CD2	1.79	1.17
8:Q5:16:ARG:CB	1:R5:90:ARG:NH1	2.07	1.17
8:W5:16:ARG:CB	1:X5:90:ARG:NH1	2.07	1.17
1:b5:18:TYR:CZ	10:k5:165:ARG:CB	2.26	1.17
10:k5:1008:PHE:CZ	1:p7:87:TYR:CE2	2.30	1.17
12:M8:302:CYC:CMD	3:S8:77:ARG:NH2	2.08	1.17
4:M9:160:THR:O	3:V9:108:ARG:NH2	1.74	1.17
5:N9:22:LEU:CD2	5:N9:26:LEU:CD2	2.23	1.17
3:H9:120:LEU:CD1	12:H9:202:CYC:C2A	2.21	1.17
11:a9:280:ASP:OD1	11:a9:281:PRO:HD3	1.45	1.17
11:aA:249:GLU:O	11:aA:285:VAL:HG21	1.41	1.17
11:aA:666:ASN:CB	12:aA:901:CYC:OB	1.91	1.17
3:B3:115:GLU:OE2	4:M3:76:ALA:O	1.63	1.17
4:M3:51:ARG:HH21	11:a9:694:ARG:NH2	1.40	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N3:22:LEU:CD2	5:N3:26:LEU:CD2	2.23	1.17
10:j5:1150:TYR:HE2	1:v7:69:GLY:C	1.52	1.17
3:F6:78:ARG:HD3	12:F6:201:CYC:CGD	1.75	1.17
8:i7:3:VAL:CG1	8:s7:25:ARG:NH2	2.07	1.17
8:c7:15:ALA:CA	1:d7:90:ARG:CZ	2.11	1.17
8:o7:18:LEU:HD13	1:p7:97:LEU:CD1	1.74	1.17
3:U8:114:LYS:NZ	4:M8:13:LYS:HD3	1.58	1.17
2:X8:74:TYR:OH	2:S9:35:THR:CG2	1.91	1.17
3:Q8:85:ASP:CG	12:Z8:301:CYC:HBC3	1.67	1.17
12:S8:201:CYC:HMD1	12:S8:201:CYC:HC	1.10	1.17
5:Z8:37:HIS:CG	12:Z8:301:CYC:NB	2.13	1.17
11:a9:403:THR:CG2	11:a9:536:THR:HG22	1.65	1.17
5:NA:22:LEU:CD2	5:NA:26:LEU:CD2	2.23	1.17
3:R1:111:ASN:HD21	5:N1:66:ARG:NH1	1.39	1.17
12:J3:202:CYC:OB	11:a9:666:ASN:CB	1.93	1.17
5:N3:22:LEU:HD22	5:N3:26:LEU:CG	1.74	1.17
3:B1:91:ARG:NH2	11:aA:677:GLN:NE2	1.91	1.17
8:G5:100:ASP:OD1	8:S5:20:PRO:CG	1.91	1.17
10:k5:387:VAL:O	10:k5:394:PRO:CG	1.92	1.17
2:X8:74:TYR:CE1	2:S9:35:THR:CG2	2.25	1.17
5:Z8:41:GLN:CB	12:Z8:301:CYC:C1B	2.09	1.17
4:M1:205:ASP:OD2	5:N1:52:ARG:NH1	1.76	1.17
2:A2:63:PHE:HB2	2:A2:66:LEU:HD11	1.19	1.17
12:QA:201:CYC:HBB2	3:TA:75:PRO:CA	1.74	1.16
12:QA:201:CYC:CBB	3:TA:75:PRO:CB	2.20	1.16
3:J3:84:ARG:HD3	11:a9:668:TYR:CD1	1.50	1.16
2:U3:46:SER:O	2:Q9:74:TYR:CE1	1.98	1.16
3:H4:119:ALA:CB	11:aA:266:ASN:ND2	1.99	1.16
4:M4:140:ARG:NH1	4:M4:144:ARG:NH1	1.92	1.16
4:M4:215:GLU:N	5:Z4:27:ALA:C	2.03	1.16
12:M4:301:CYC:HBC1	3:Y4:82:CYS:SG	1.84	1.16
1:d5:28:LYS:NZ	1:n7:143:PRO:CG	2.04	1.16
1:V5:83:ARG:NH1	10:j5:649:PHE:HE2	1.17	1.16
3:L6:125:ARG:CD	1:b7:69:GLY:HA2	1.69	1.16
3:L8:82:CYS:SG	12:a9:901:CYC:C4C	2.33	1.16
4:M9:58:TYR:CG	11:a9:496:ARG:NH2	2.12	1.16
11:aA:632:ILE:HG22	11:aA:634:ALA:N	1.57	1.16
3:F4:108:ARG:C	4:M4:6:THR:HG21	1.67	1.16
8:Q5:16:ARG:CA	1:R5:90:ARG:NH1	2.06	1.16
1:T5:53:LYS:HZ2	8:U5:120:GLN:NE2	1.37	1.16
8:Q7:13:ALA:CA	9:z7:46:LYS:NZ	1.90	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I7:25:ARG:NH2	8:W7:25:ARG:CD	2.09	1.16
8:W7:13:ALA:CA	9:w7:46:LYS:HZ2	1.56	1.16
8:c7:25:ARG:HH22	8:m7:6:LYS:NZ	1.39	1.16
3:B8:108:ARG:HA	4:M8:61:ASN:HA	1.25	1.16
12:B8:202:CYC:HMA2	4:M8:58:TYR:N	1.55	1.16
2:X8:67:THR:OG1	3:T9:28:THR:CG2	1.92	1.16
5:Z8:22:LEU:HD22	5:Z8:26:LEU:CG	1.73	1.16
11:a9:249:GLU:O	11:a9:285:VAL:HG21	1.41	1.16
1:A:73:TYR:CE1	10:k5:162:TRP:CH2	2.29	1.16
2:K3:28:ASN:OD1	2:A3:33:ARG:NH2	1.79	1.16
3:O4:112:GLY:O	5:Z4:70:ILE:HB	1.44	1.16
5:Z4:22:LEU:HD11	12:Z4:301:CYC:C4B	1.75	1.16
1:D5:75:THR:HG21	8:E5:112:VAL:HG23	1.18	1.16
7:N6:2:TYR:OH	3:F6:107:ASP:O	1.64	1.16
10:j5:742:GLY:HA2	12:J7:201:CYC:CGD	1.75	1.16
10:k5:357:LEU:HD11	10:k5:379:PHE:HA	1.28	1.16
10:k5:938:GLN:CD	1:D7:28:LYS:HD2	1.68	1.16
10:k5:1119:LEU:CD1	12:k5:1204:CYC:OB	1.93	1.16
1:B7:68:PRO:CB	1:D7:14:VAL:O	1.94	1.16
8:i7:3:VAL:CG1	8:s7:25:ARG:HH21	1.58	1.16
1:l7:17:LYS:NZ	11:a9:41:ASP:OD2	1.79	1.16
8:q7:66:VAL:HG11	11:aA:61:TYR:CE1	1.80	1.16
4:M8:225:LYS:N	12:M8:301:CYC:CGA	2.07	1.16
5:Z8:29:HIS:CE1	5:Z8:31:TRP:CB	2.27	1.16
3:H9:113:LEU:HD11	12:H9:202:CYC:HMB3	1.23	1.16
11:a9:75:ALA:HB1	11:a9:81:ASP:OD1	1.43	1.16
11:a9:588:VAL:C	11:a9:590:PRO:CD	2.18	1.16
5:N1:22:LEU:CD2	5:N1:26:LEU:CD2	2.23	1.16
3:FA:151:GLY:C	3:F9:150:ARG:NH2	2.03	1.16
2:OA:33:ARG:NH2	2:YA:28:ASN:OD1	1.79	1.16
8:W5:16:ARG:HA	1:X5:90:ARG:CD	1.76	1.16
9:z5:18:ARG:HB3	9:z5:22:GLU:OE2	1.45	1.16
1:d7:87:TYR:CE2	9:x7:38:PHE:HZ	1.62	1.16
2:X8:67:THR:CB	3:T9:28:THR:HG22	1.62	1.16
4:M8:104:ALA:CB	2:P8:14:SER:CA	2.15	1.16
11:aA:351:THR:HB	11:aA:352:PRO:CD	1.74	1.16
4:M1:252:LEU:HD13	12:X1:201:CYC:O1D	1.43	1.16
1:A:131:GLN:HG3	1:R5:17:LYS:NZ	0.83	1.16
1:Z:73:TYR:HE1	10:j5:162:TRP:CH2	1.63	1.16
3:FA:145:PRO:CG	12:F9:302:CYC:CMC	2.24	1.16
3:HA:120:LEU:CD1	12:HA:202:CYC:CAA	2.23	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:158:PHE:C	3:VA:108:ARG:HD3	1.67	1.16
2:QA:119:THR:HG21	3:TA:83:LEU:CD2	1.76	1.16
12:QA:201:CYC:CBB	3:TA:75:PRO:HB3	1.76	1.16
3:J3:14:LEU:CD1	11:a9:621:THR:HG22	1.72	1.16
3:B4:82:CYS:O	12:B4:202:CYC:CAC	1.93	1.16
3:S4:120:LEU:HD22	12:S4:202:CYC:CBD	1.73	1.16
2:N4:33:ARG:NH2	2:X4:28:ASN:OD1	1.79	1.16
1:R5:124:ALA:HB3	1:Z5:64:ASP:OD1	1.46	1.16
8:S5:68:PRO:CB	8:a5:59:PHE:HB2	1.76	1.16
10:j5:1037:ARG:NH1	10:j5:1098:GLU:OE2	1.76	1.16
10:j5:1119:LEU:HD12	12:j5:1202:CYC:C4B	1.74	1.16
12:F1:202:CYC:HMD1	12:F1:202:CYC:HC	1.10	1.16
12:X1:202:CYC:HMD1	12:X1:202:CYC:HC	1.10	1.16
3:FA:150:ARG:CB	3:F9:150:ARG:HG2	1.74	1.15
5:NA:22:LEU:HD22	5:NA:26:LEU:CG	1.74	1.15
6:M2:276:PRO:O	1:j7:63:SER:HA	1.43	1.15
3:B3:91:ARG:NH2	11:a9:677:GLN:NE2	1.92	1.15
3:B4:119:ALA:CB	4:M4:52:LEU:HD11	1.76	1.15
4:M3:51:ARG:NH2	11:a9:694:ARG:NH1	1.92	1.15
4:M3:252:LEU:HD13	12:X3:201:CYC:O1D	1.43	1.15
4:M4:128:ALA:HB1	4:M4:142:PHE:CE1	1.81	1.15
2:N4:63:PHE:HB2	2:N4:66:LEU:HD11	1.20	1.15
8:M5:20:PRO:CG	8:A5:100:ASP:OD1	1.93	1.15
8:G5:61:ILE:HG13	8:o7:68:PRO:CD	1.76	1.15
8:I5:27:LYS:O	8:I5:28:SER:C	1.86	1.15
1:P5:114:GLU:CG	10:k5:496:GLU:CD	2.06	1.15
10:j5:1119:LEU:HD12	12:j5:1202:CYC:OB	1.45	1.15
1:r7:68:PRO:CB	1:t7:14:VAL:O	1.94	1.15
8:u7:97:VAL:HG21	1:v7:19:LEU:HD13	1.16	1.15
4:M8:225:LYS:CA	12:M8:301:CYC:O1A	1.94	1.15
3:Q8:84:ARG:HG3	5:Z8:31:TRP:CE2	1.80	1.15
2:O9:33:ARG:NH2	2:Y9:28:ASN:OD1	1.79	1.15
3:Y8:89:ILE:HA	3:Y8:92:TYR:CD2	1.79	1.15
11:a9:312:ASP:HB2	11:a9:315:LEU:CD1	1.75	1.15
4:MA:263:PRO:HB2	3:VA:119:ALA:HB2	1.24	1.15
6:M2:277:GLY:HA2	1:j7:62:TYR:O	0.98	1.15
12:S4:201:CYC:HMD1	12:S4:201:CYC:HC	1.10	1.15
3:L4:69:PRO:O	11:aA:82:GLN:HB3	1.45	1.15
8:U5:83:ARG:CD	6:M6:27:ALA:O	1.93	1.15
1:Z5:28:LYS:HD3	1:t7:143:PRO:HB3	1.17	1.15
1:b5:30:TYR:OH	10:k5:47:PHE:HZ	1.05	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:938:GLN:OE1	1:D7:28:LYS:HG2	1.42	1.15
10:k5:1153:VAL:CG2	1:p7:125:ALA:CB	2.22	1.15
8:c7:39:ILE:CD1	8:c7:148:GLU:HG2	1.75	1.15
8:c7:39:ILE:HD13	8:c7:148:GLU:HG3	1.27	1.15
5:Z8:22:LEU:CD2	5:Z8:26:LEU:CD2	2.23	1.15
11:aA:312:ASP:HB2	11:aA:315:LEU:CD1	1.75	1.15
11:aA:588:VAL:C	11:aA:590:PRO:CD	2.18	1.15
5:NA:54:LEU:N	12:TA:301:CYC:HBA1	1.61	1.15
3:J2:108:ARG:NE	6:M2:155:ASN:O	1.76	1.15
3:F3:116:THR:OG1	4:M3:38:PRO:O	1.58	1.15
3:D4:150:ARG:HG3	2:C1:140:SER:HB3	1.15	1.15
5:N3:62:ARG:NH2	2:Q3:14:SER:CB	2.08	1.15
1:f5:30:TYR:OH	10:j5:47:PHE:CZ	2.00	1.15
8:U5:59:PHE:HB3	6:M6:39:ARG:HD3	1.28	1.15
10:j5:938:GLN:OE1	1:J7:28:LYS:CD	1.95	1.15
10:j5:1151:GLN:HA	1:v7:122:PRO:HB3	1.17	1.15
10:k5:889:LEU:HD21	12:D7:201:CYC:CBB	1.76	1.15
10:k5:970:GLY:N	1:n7:77:ARG:NH2	1.93	1.15
10:k5:1153:VAL:HG23	1:p7:125:ALA:HB2	1.26	1.15
3:F6:82:CYS:HB2	12:F6:201:CYC:HMD3	1.26	1.15
1:P7:14:VAL:O	1:N7:68:PRO:CB	1.94	1.15
8:o7:17:TYR:HE2	1:p7:93:THR:OG1	1.30	1.15
5:N9:53:LEU:CB	12:T9:301:CYC:HBA2	1.75	1.15
2:A9:33:ARG:NH2	2:K9:28:ASN:OD1	1.79	1.15
2:E9:33:ARG:HG2	2:I9:25:GLN:CD	1.72	1.15
11:aA:275:THR:CA	11:aA:278:LEU:CD1	1.96	1.15
11:aA:280:ASP:OD1	11:aA:281:PRO:HD3	1.45	1.15
11:aA:694:ARG:NH2	4:M1:51:ARG:NH2	1.93	1.15
3:HA:119:ALA:HA	8:S7:49:ARG:NH1	1.60	1.15
12:HA:201:CYC:HC	12:HA:201:CYC:HMD1	1.10	1.15
2:IA:37:SER:C	2:IA:97:LEU:CD1	2.20	1.15
3:J3:84:ARG:NH2	11:a9:669:ILE:C	2.03	1.15
12:Z3:202:CYC:C4B	2:O3:33:ARG:HH12	1.60	1.15
2:A4:33:ARG:NH2	2:K4:28:ASN:OD1	1.79	1.15
3:F4:115:GLU:CD	4:M4:3:VAL:CG2	2.19	1.15
3:H4:119:ALA:O	11:aA:266:ASN:HB3	0.98	1.15
4:M4:101:ASP:CA	2:P4:13:ASP:HB3	1.75	1.15
1:D5:71:MEN:C	1:D5:77:ARG:HH11	1.59	1.15
1:H5:143:PRO:HG3	8:Q7:41:GLN:HE22	1.12	1.15
8:Q5:12:ASP:HB2	1:R5:94:TYR:CE2	1.81	1.15
8:U5:79:ALA:HB2	6:M6:32:MET:HA	1.22	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K6:28:ASN:OD1	2:A6:33:ARG:NH2	1.79	1.15
10:j5:1009:ALA:CB	1:v7:87:TYR:HE1	1.58	1.15
3:F6:130:ALA:CB	12:F6:201:CYC:HBC2	1.76	1.15
2:A8:33:ARG:NH2	2:K8:28:ASN:OD1	1.79	1.15
3:D8:108:ARG:HD2	11:a9:107:ARG:HH12	1.09	1.15
1:l7:68:PRO:CB	1:n7:14:VAL:O	1.94	1.15
8:u7:103:PRO:CB	1:v7:9:ILE:HG21	1.75	1.15
3:L9:14:LEU:CD1	11:a9:358:PRO:HG3	1.76	1.15
4:M9:160:THR:HG22	4:M9:257:GLN:HB2	1.27	1.15
5:N9:53:LEU:HD13	12:T9:301:CYC:HAA1	1.21	1.15
11:a9:245:ALA:CB	12:a9:901:CYC:HBB3	1.77	1.15
1:Z:161:SER:CB	1:X5:14:VAL:HG21	1.60	1.15
7:N2:2:TYR:OH	3:F2:107:ASP:O	1.64	1.15
2:C3:140:SER:HB3	3:D8:150:ARG:HG3	1.15	1.15
8:M5:110:ILE:CD1	10:k5:533:LEU:HD11	1.77	1.15
8:C5:27:LYS:HA	8:C5:30:VAL:HG22	1.20	1.15
10:k5:386:ILE:HG21	10:k5:395:SER:N	1.42	1.15
10:k5:386:ILE:CG2	10:k5:387:VAL:H	1.59	1.15
10:k5:779:ASP:OD2	12:F7:201:CYC:HMA2	1.47	1.15
2:X8:28:ASN:OD1	2:N8:33:ARG:NH2	1.79	1.15
2:X8:67:THR:CB	3:T9:28:THR:HG21	1.61	1.15
4:M8:91:VAL:HG13	2:P8:14:SER:O	1.35	1.15
4:M8:205:ASP:CB	5:Z8:59:ARG:NE	2.03	1.15
3:Q8:89:ILE:HA	3:Q8:92:TYR:CD2	1.80	1.15
3:DA:112:GLY:N	4:MA:76:ALA:HB1	1.62	1.14
5:NA:53:LEU:CB	12:TA:301:CYC:HBA2	1.75	1.14
2:Q1:14:SER:CB	5:N1:62:ARG:NH2	2.08	1.14
2:K2:28:ASN:OD1	2:A2:33:ARG:NH2	1.79	1.14
6:M2:26:PHE:CB	8:O5:87:TYR:OH	1.93	1.14
8:K5:112:VAL:HG23	1:J5:75:THR:HG21	1.18	1.14
1:N5:110:ASN:CG	10:k5:692:LEU:O	1.90	1.14
1:Z5:127:VAL:CG1	10:k5:698:GLY:HA3	1.76	1.14
10:k5:970:GLY:CA	1:n7:77:ARG:HH21	1.60	1.14
10:k5:1150:TYR:CE2	1:p7:69:GLY:O	1.99	1.14
8:c7:16:ARG:N	1:d7:90:ARG:CD	2.10	1.14
8:u7:121:THR:HG23	12:u7:201:CYC:HMC3	1.24	1.14
12:L8:201:CYC:HMD1	12:L8:201:CYC:HC	1.10	1.14
3:O8:107:ASP:CB	5:Z8:66:ARG:CB	2.25	1.14
11:a9:403:THR:HG21	11:a9:536:THR:HG22	1.28	1.14
11:aA:632:ILE:CG2	11:aA:634:ALA:H	1.60	1.14
11:aA:694:ARG:NH1	4:M1:51:ARG:NH2	1.94	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:33:ARG:NH2	2:KA:28:ASN:OD1	1.79	1.14
2:AA:33:ARG:HH12	12:LA:201:CYC:C4B	1.60	1.14
3:JA:109:CYS:O	11:aA:518:ALA:HB2	1.47	1.14
4:M3:51:ARG:HH21	11:a9:694:ARG:NH1	1.42	1.14
3:F4:108:ARG:CZ	4:M4:9:GLN:HG3	1.73	1.14
4:M4:138:SER:HB3	12:Z4:301:CYC:CBB	1.77	1.14
4:M4:232:VAL:HB	12:M4:301:CYC:HBB2	1.17	1.14
8:G5:126:VAL:HG22	12:G5:201:CYC:H3C	1.25	1.14
1:J5:71:MEN:C	1:J5:77:ARG:HH11	1.59	1.14
1:Z5:64:ASP:HB2	10:k5:705:THR:CG2	1.76	1.14
10:j5:357:LEU:HD11	10:j5:379:PHE:HA	1.28	1.14
10:j5:1047:LYS:O	10:j5:1051:GLU:HB3	1.47	1.14
1:v7:62:TYR:CB	11:aA:602:PRO:HD2	1.39	1.14
2:P8:18:PHE:CA	3:Q8:91:ARG:NH2	2.10	1.14
5:N9:1:MET:HG3	3:R9:119:ALA:HB2	1.29	1.14
5:N9:22:LEU:HD22	5:N9:26:LEU:CD2	1.77	1.14
12:T9:302:CYC:HMD1	12:T9:302:CYC:HC	1.10	1.14
11:a9:239:TYR:CE1	12:a9:901:CYC:HBA1	1.80	1.14
11:a9:632:ILE:CG2	11:a9:634:ALA:H	1.60	1.14
1:Z:122:PRO:HB3	1:V5:64:ASP:OD2	1.46	1.14
2:SA:35:THR:CG2	2:X4:74:TYR:CE1	2.25	1.14
2:O1:33:ARG:NH2	2:Y1:28:ASN:OD1	1.79	1.14
2:O1:33:ARG:HH12	12:Z1:201:CYC:C4B	1.60	1.14
3:J3:14:LEU:CD1	11:a9:621:THR:HG21	1.72	1.14
3:J3:85:ASP:OD1	11:a9:668:TYR:CE2	2.00	1.14
8:W5:12:ASP:HB2	1:X5:94:TYR:CE2	1.81	1.14
1:Z5:161:SER:CB	10:k5:695:GLY:O	1.96	1.14
10:j5:729:ILE:HD12	1:J7:64:ASP:OD1	1.46	1.14
1:H7:68:PRO:CB	1:J7:14:VAL:O	1.94	1.14
8:i7:96:ILE:CA	8:i7:152:TYR:CE2	2.31	1.14
8:c7:16:ARG:CA	1:d7:90:ARG:CD	2.25	1.14
4:M8:104:ALA:HB2	2:P8:10:ALA:O	1.43	1.14
5:N9:54:LEU:N	12:T9:301:CYC:HBA1	1.61	1.14
3:H9:126:SER:CB	12:H9:202:CYC:HMC1	1.73	1.14
11:aA:708:HIS:HB3	3:L1:108:ARG:NH2	1.61	1.14
2:IA:113:LEU:HD21	2:IA:161:LEU:HD23	1.25	1.14
5:NA:22:LEU:HD22	5:NA:26:LEU:CD2	1.77	1.14
2:A3:33:ARG:HH12	12:L3:201:CYC:C4B	1.60	1.14
3:F4:107:ASP:HB3	4:M4:8:SER:CB	1.68	1.14
3:Q4:72:ASN:OD1	12:Z4:301:CYC:HMD2	1.48	1.14
1:d5:127:VAL:HG11	10:j5:698:GLY:CA	1.77	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q5:16:ARG:HA	1:R5:90:ARG:CD	1.76	1.14
1:R5:110:ASN:OD1	10:k5:466:LEU:CB	1.96	1.14
8:U5:59:PHE:CE2	6:M6:37:GLU:OE2	1.99	1.14
6:M6:53:LEU:CD2	8:c7:80:LEU:HG	1.75	1.14
10:j5:152:ARG:NH2	10:j5:193:SER:O	1.79	1.14
10:j5:1067:LEU:CD1	10:j5:1101:GLU:HG2	1.78	1.14
1:T7:68:PRO:CB	1:V7:14:VAL:O	1.94	1.14
3:U8:114:LYS:HE2	4:M8:13:LYS:NZ	1.61	1.14
3:Q8:120:LEU:CD1	3:Q8:122:THR:OG1	1.96	1.14
12:J9:202:CYC:CBA	11:a9:511:LYS:CA	2.24	1.14
11:a9:245:ALA:HB2	12:a9:901:CYC:HBB3	1.27	1.14
1:Z:107:ARG:NH2	8:e5:12:ASP:OD2	1.79	1.14
4:M3:51:ARG:NH2	11:a9:694:ARG:NH2	1.94	1.14
8:C5:27:LYS:O	8:C5:28:SER:C	1.86	1.14
8:G5:100:ASP:OD1	8:S5:20:PRO:HG2	1.44	1.14
1:d5:83:ARG:NH1	10:j5:379:PHE:HE2	1.45	1.14
8:Q5:11:ALA:CB	1:R5:94:TYR:HE1	1.48	1.14
12:L6:202:CYC:HMD1	12:L6:202:CYC:HC	1.10	1.14
6:M6:65:VAL:HG12	1:b7:59:ALA:C	1.71	1.14
9:z5:6:LYS:CB	9:z5:55:LYS:CB	2.02	1.14
9:i5:18:ARG:HB3	9:i5:22:GLU:OE2	1.45	1.14
3:H8:84:ARG:CB	11:a9:131:TYR:CE1	2.31	1.14
3:L8:69:PRO:O	11:a9:82:GLN:HB3	1.47	1.14
3:L8:108:ARG:O	12:a9:901:CYC:HBB1	1.48	1.14
5:Z8:29:HIS:ND1	5:Z8:31:TRP:CB	2.11	1.14
2:I9:37:SER:C	2:I9:97:LEU:CD1	2.20	1.14
3:J9:119:ALA:C	11:a9:365:LYS:CE	2.20	1.14
12:J9:202:CYC:HBA1	11:a9:511:LYS:CA	1.78	1.14
11:a9:239:TYR:HE1	12:a9:901:CYC:HBA1	1.06	1.14
11:aA:338:VAL:HG22	11:aA:340:PRO:CG	1.77	1.14
12:LA:201:CYC:HC	12:LA:201:CYC:HMD1	1.09	1.13
5:NA:53:LEU:HD13	12:TA:301:CYC:HAA1	1.21	1.13
2:O3:33:ARG:NH2	2:Y3:28:ASN:OD1	1.79	1.13
1:d5:53:LYS:HD3	8:e5:118:SER:O	1.46	1.13
8:S5:66:VAL:HG11	8:E7:68:PRO:HG3	1.29	1.13
12:L6:202:CYC:C4B	2:A6:33:ARG:HH12	1.60	1.13
10:k5:152:ARG:NH2	10:k5:193:SER:O	1.79	1.13
10:k5:825:ASN:OD1	10:k5:854:LEU:HD13	1.47	1.13
10:k5:1056:PRO:HD2	10:k5:1057:LYS:H	1.14	1.13
3:F8:109:CYS:N	4:M8:6:THR:CG2	2.11	1.13
12:B9:202:CYC:HMD1	12:B9:202:CYC:HC	1.10	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:710:THR:HG22	11:a9:807:GLN:CD	1.72	1.13
11:aA:280:ASP:CB	11:aA:281:PRO:CD	2.03	1.13
11:aA:312:ASP:HB2	11:aA:315:LEU:CG	1.79	1.13
4:M1:258:LYS:NZ	3:Z1:111:ASN:HD21	1.46	1.13
3:HA:120:LEU:CD1	12:HA:202:CYC:C2A	2.26	1.13
2:OA:33:ARG:HH12	12:ZA:201:CYC:C4B	1.60	1.13
4:M4:144:ARG:HG2	4:M4:204:ILE:HD13	1.14	1.13
4:M4:217:VAL:HG22	5:Z4:30:PRO:CD	1.78	1.13
8:G5:100:ASP:OD2	8:S5:20:PRO:HB2	1.46	1.13
1:d5:110:ASN:HD21	10:j5:451:LYS:CB	1.60	1.13
1:Z5:110:ASN:ND2	10:k5:451:LYS:HB3	1.61	1.13
10:j5:1067:LEU:HD11	10:j5:1101:GLU:HG2	1.20	1.13
10:j5:1153:VAL:CG2	1:v7:125:ALA:HB1	1.73	1.13
3:D1:68:ARG:CZ	3:X1:68:ARG:HH22	1.62	1.13
3:B8:81:ALA:HB1	12:B8:202:CYC:HMD3	1.30	1.13
8:o7:97:VAL:HG21	1:p7:19:LEU:HD13	1.16	1.13
4:M9:274:VAL:CG1	3:V9:77:ARG:CD	1.87	1.13
2:O9:33:ARG:HH12	12:Z9:201:CYC:C4B	1.60	1.13
12:Z9:201:CYC:HMD1	12:Z9:201:CYC:HC	1.10	1.13
11:a9:312:ASP:HB2	11:a9:315:LEU:CG	1.79	1.13
11:aA:621:THR:HG21	3:J1:14:LEU:CD1	1.71	1.13
1:Z:127:VAL:HG11	1:X5:15:GLN:HG2	1.16	1.13
2:EA:33:ARG:HG2	2:IA:25:GLN:CD	1.72	1.13
3:LA:14:LEU:CD1	11:aA:358:PRO:HG3	1.77	1.13
2:QA:76:ASP:CB	2:U1:140:SER:O	1.95	1.13
3:H3:78:ARG:NH2	11:a9:623:ASP:HB3	1.63	1.13
3:J3:85:ASP:N	11:a9:668:TYR:OH	1.80	1.13
3:B3:108:ARG:O	4:M3:6:THR:HG22	1.47	1.13
12:T3:302:CYC:HMD1	12:T3:302:CYC:HC	1.10	1.13
12:U4:202:CYC:HMD1	12:U4:202:CYC:HC	1.10	1.13
5:Z4:41:GLN:CG	12:Z4:301:CYC:HMB1	1.75	1.13
8:S5:68:PRO:HB3	8:a5:59:PHE:CB	1.77	1.13
1:b5:18:TYR:CE1	10:k5:165:ARG:HD3	1.83	1.13
10:j5:136:VAL:CG1	10:j5:137:PRO:CD	2.24	1.13
10:j5:138:PRO:HB3	10:j5:201:VAL:HG11	1.30	1.13
10:j5:1151:GLN:O	1:v7:122:PRO:HB2	1.47	1.13
8:i7:25:ARG:NH1	8:s7:6:LYS:HB3	1.59	1.13
2:A8:33:ARG:HH12	12:L8:201:CYC:C4B	1.60	1.13
3:U8:112:GLY:HA2	4:M8:74:LEU:CD2	1.79	1.13
12:F8:201:CYC:HMD1	12:F8:201:CYC:HC	1.10	1.13
3:L8:68:ARG:HB2	11:a9:82:GLN:N	1.57	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L8:71:GLY:CA	11:a9:82:GLN:HG2	1.76	1.13
3:O8:112:GLY:O	5:Z8:70:ILE:HB	1.47	1.13
4:M9:76:ALA:HB1	3:D9:112:GLY:N	1.62	1.13
3:FA:150:ARG:CA	3:F9:150:ARG:CG	2.27	1.13
3:HA:78:ARG:NH1	12:HA:202:CYC:O2D	1.80	1.13
2:A1:33:ARG:NH2	2:K1:28:ASN:OD1	1.79	1.13
2:A1:33:ARG:HH12	12:L1:201:CYC:C4B	1.60	1.13
3:D3:68:ARG:CZ	3:X3:68:ARG:HH22	1.62	1.13
12:L3:202:CYC:OB	11:a9:738:LEU:CD2	1.97	1.13
3:B1:108:ARG:O	4:M1:6:THR:HG22	1.47	1.13
2:N4:33:ARG:HH12	12:Y4:201:CYC:C4B	1.60	1.13
8:A5:107:ILE:HG12	1:B5:13:ASP:OD2	1.48	1.13
1:d5:28:LYS:CE	1:n7:143:PRO:CB	2.26	1.13
1:V5:114:GLU:CG	10:j5:496:GLU:CD	2.18	1.13
10:j5:931:VAL:HG13	1:J7:29:ALA:HB1	1.31	1.13
10:k5:136:VAL:CG1	10:k5:137:PRO:CD	2.24	1.13
10:k5:1067:LEU:HD11	10:k5:1101:GLU:HG2	1.20	1.13
10:k5:1153:VAL:HG21	1:p7:125:ALA:HB1	1.31	1.13
12:H6:202:CYC:HMD1	12:H6:202:CYC:HC	1.10	1.13
1:H7:140:LEU:HD11	11:aA:561:ALA:CB	1.78	1.13
8:i7:39:ILE:CD1	8:i7:148:GLU:CB	2.27	1.13
8:a7:63:PRO:HD3	11:a9:336:ILE:HG22	1.30	1.13
12:B2:201:CYC:HMD1	12:B2:201:CYC:HC	1.10	1.13
5:NA:16:PHE:CE1	3:TA:120:LEU:HD23	1.83	1.13
2:SA:35:THR:CG2	2:X4:74:TYR:OH	1.91	1.12
2:A1:63:PHE:HB2	2:A1:66:LEU:HD11	1.20	1.13
12:L2:202:CYC:C4B	2:A2:33:ARG:HH12	1.60	1.12
2:A4:33:ARG:HH12	12:L4:201:CYC:C4B	1.60	1.13
4:M4:100:SER:HB3	3:Q4:1:MET:CE	1.78	1.12
12:M4:301:CYC:CAC	3:Y4:82:CYS:SG	2.38	1.12
2:N4:111:ALA:O	5:Z4:34:LEU:HD12	1.29	1.12
5:Z4:42:SER:HA	12:Z4:301:CYC:HMA1	1.26	1.12
8:E5:80:LEU:CD1	12:E5:201:CYC:HAD2	1.79	1.12
8:I5:41:GLN:HB2	1:J5:24:LEU:HD11	1.31	1.13
8:S5:14:GLU:HG2	10:j5:538:PHE:CE2	1.84	1.12
8:W5:12:ASP:CA	1:X5:94:TYR:HE2	1.60	1.12
1:b5:114:GLU:HG2	10:k5:491:THR:OG1	1.49	1.12
10:j5:56:ILE:CD1	10:j5:219:ASP:HB3	1.79	1.12
10:j5:1143:LEU:HD12	8:q7:106:GLU:HB2	1.19	1.13
10:j5:1146:THR:N	1:v7:77:ARG:HH22	1.44	1.13
8:c7:39:ILE:CD1	8:c7:148:GLU:CB	2.27	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c7:96:ILE:CA	8:c7:152:TYR:CE2	2.31	1.13
12:B8:202:CYC:O1A	4:M8:54:ALA:HB2	1.31	1.12
8:u7:27:LYS:HE2	1:v7:35:ALA:HB1	1.16	1.13
3:J3:14:LEU:HD22	11:a9:621:THR:HG22	1.18	1.12
2:K3:14:SER:HB2	11:a9:746:TYR:CB	1.79	1.12
3:F4:109:CYS:CA	4:M4:6:THR:CG2	2.25	1.12
10:k5:1118:THR:O	12:k5:1204:CYC:HMA2	1.48	1.12
8:o7:27:LYS:HE2	1:p7:35:ALA:HB1	1.16	1.12
4:M8:217:VAL:HG22	5:Z8:30:PRO:HG2	1.14	1.12
3:L9:52:ILE:HD11	3:L9:87:GLU:CB	1.78	1.12
5:N9:16:PHE:CE1	3:T9:120:LEU:HD23	1.83	1.12
5:Z8:22:LEU:HD22	5:Z8:26:LEU:CD2	1.77	1.12
5:Z8:41:GLN:HB2	12:Z8:301:CYC:C2B	1.68	1.12
3:H9:126:SER:HB2	12:H9:202:CYC:HMC1	1.21	1.12
12:V9:202:CYC:HMD1	12:V9:202:CYC:HC	1.11	1.12
11:aA:710:THR:HG22	11:aA:807:GLN:CD	1.72	1.12
3:LA:52:ILE:HD11	3:LA:87:GLU:CB	1.78	1.12
2:A4:63:PHE:HB2	2:A4:66:LEU:HD11	1.20	1.12
3:U4:115:GLU:HB3	4:M4:74:LEU:HD11	1.12	1.12
3:O4:107:ASP:HB3	5:Z4:66:ARG:CB	1.77	1.12
5:Z4:25:THR:CG2	5:Z4:63:ASN:O	1.95	1.12
1:X5:65:LEU:HD12	10:j5:706:PRO:HG3	1.15	1.12
1:Z5:53:LYS:HD3	8:a5:118:SER:O	1.46	1.12
10:j5:386:ILE:CG2	10:j5:387:VAL:H	1.59	1.12
10:j5:1018:LEU:HD11	10:j5:1035:PHE:CZ	1.78	1.12
8:U7:60:GLN:OE1	1:p7:117:ASN:CB	1.97	1.12
3:F8:115:GLU:HG2	4:M8:3:VAL:HG11	1.24	1.12
2:N8:112:GLY:HA2	5:Z8:34:LEU:H	1.02	1.12
12:L9:201:CYC:C4B	2:A9:33:ARG:HH12	1.60	1.12
5:Z8:38:GLU:HB2	12:Z8:301:CYC:HMB3	1.22	1.12
11:aA:738:LEU:CD2	12:aA:902:CYC:OB	1.97	1.12
5:NA:1:MET:HB3	5:NA:3:VAL:HG23	1.30	1.12
3:J3:77:ARG:CZ	2:K3:107:ASP:CA	2.27	1.12
5:N3:22:LEU:HD22	5:N3:26:LEU:CD2	1.77	1.12
2:U3:45:THR:O	2:Q9:69:PRO:HG2	1.48	1.12
3:L4:88:ILE:HD11	11:aA:239:TYR:CE2	1.82	1.12
12:Q4:201:CYC:HMD1	12:Q4:201:CYC:HC	1.11	1.12
5:Z4:41:GLN:HG3	12:Z4:301:CYC:CMB	1.76	1.12
1:d5:28:LYS:HD2	1:n7:143:PRO:CG	1.76	1.12
1:R5:63:SER:OG	10:k5:706:PRO:HA	1.49	1.12
10:j5:1146:THR:CA	1:v7:77:ARG:HH22	1.62	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F8:84:ARG:HD2	11:a9:139:ILE:HG22	1.17	1.12
3:H8:119:ALA:O	11:a9:266:ASN:HB3	0.96	1.12
4:M8:226:SER:CB	3:Y8:85:ASP:OD1	1.96	1.12
4:M9:158:PHE:CA	3:V9:108:ARG:HD3	1.79	1.12
4:M9:274:VAL:HG11	2:W9:111:ALA:HB1	1.14	1.12
5:N9:66:ARG:HB2	3:T9:111:ASN:ND2	1.64	1.12
2:O9:63:PHE:HB2	2:O9:66:LEU:HD11	1.20	1.12
5:Z8:41:GLN:O	12:Z8:301:CYC:HMA1	1.47	1.12
11:a9:710:THR:HG22	11:a9:807:GLN:HB3	1.32	1.12
11:aA:30:MET:CB	11:aA:34:ILE:O	1.97	1.12
1:A:122:PRO:CB	1:P5:64:ASP:OD2	1.96	1.12
3:FA:150:ARG:CG	3:F9:150:ARG:CG	1.90	1.12
4:MA:185:ALA:HA	12:VA:201:CYC:CGA	1.79	1.12
4:MA:274:VAL:CA	3:VA:77:ARG:CG	1.85	1.12
2:QA:119:THR:CG2	3:TA:83:LEU:HD22	1.78	1.12
12:P1:202:CYC:HMD1	12:P1:202:CYC:HC	1.10	1.12
6:M2:50:LEU:HD22	8:i7:79:ALA:O	1.48	1.12
5:N3:1:MET:HB3	5:N3:3:VAL:HG23	1.30	1.12
4:M4:100:SER:CB	3:Q4:1:MET:HE3	1.77	1.12
4:M4:160:THR:HG22	4:M4:257:GLN:HB2	1.27	1.12
8:A5:126:VAL:HG22	12:A5:201:CYC:H3C	1.24	1.12
1:B5:87:TYR:CE1	9:z5:19:THR:O	2.01	1.12
8:e5:49:ARG:NH1	1:R5:50:THR:HG21	1.63	1.12
8:W5:15:ALA:O	1:X5:90:ARG:NE	1.82	1.12
8:W5:17:TYR:HE2	1:X5:93:THR:OG1	1.21	1.12
10:j5:825:ASN:OD1	10:j5:854:LEU:HD13	1.47	1.12
10:k5:741:GLN:HG3	1:D7:77:ARG:NH2	1.65	1.12
10:k5:965:GLN:H	1:n7:69:GLY:CA	1.61	1.12
1:B7:140:LEU:HD11	11:a9:561:ALA:CB	1.79	1.12
8:I7:25:ARG:NH2	8:W7:25:ARG:CB	2.11	1.12
8:I7:25:ARG:HH22	8:W7:25:ARG:CD	1.60	1.12
3:Q8:110:LEU:HD21	3:Q8:167:ALA:HA	1.22	1.12
11:aA:615:ARG:O	3:H1:68:ARG:HD3	1.48	1.12
11:aA:746:TYR:CB	2:K1:14:SER:HB2	1.78	1.12
5:N1:39:PRO:HB3	3:T1:113:LEU:HA	1.28	1.12
1:A:161:SER:CB	1:R5:14:VAL:HG21	1.74	1.12
12:DA:202:CYC:HMD1	12:DA:202:CYC:HC	1.10	1.12
3:JA:119:ALA:C	11:aA:365:LYS:CE	2.21	1.12
12:JA:202:CYC:CBA	11:aA:511:LYS:CA	2.26	1.12
4:MA:113:ILE:HD11	4:MA:143:VAL:HG13	1.13	1.12
3:Z3:111:ASN:HD21	4:M3:258:LYS:NZ	1.46	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B4:108:ARG:HA	4:M4:61:ASN:CA	1.79	1.12
12:D4:201:CYC:HMD1	12:D4:201:CYC:HC	1.11	1.12
3:F4:77:ARG:HD2	11:aA:146:ARG:HH12	0.96	1.12
4:M4:235:PHE:HB2	12:M4:301:CYC:HAA1	1.16	1.12
2:N4:14:SER:CB	5:Z4:62:ARG:CD	2.28	1.12
5:Z4:22:LEU:HD11	12:Z4:301:CYC:OB	0.96	1.12
6:M6:278:ARG:NH2	1:d7:64:ASP:OD1	1.83	1.12
10:j5:1050:PHE:CZ	1:r7:107:ARG:CZ	2.33	1.12
10:k5:1018:LEU:CD1	10:k5:1035:PHE:CE2	2.31	1.12
10:k5:1119:LEU:CD1	12:k5:1204:CYC:C4B	2.28	1.12
8:U7:52:LYS:CE	11:a9:29:ARG:HH12	1.63	1.12
12:b7:201:CYC:HBB2	9:x7:21:ARG:CD	1.78	1.12
8:o7:90:ARG:HA	1:p7:18:TYR:CE2	1.84	1.12
8:u7:90:ARG:HA	1:v7:18:TYR:CE2	1.84	1.12
3:L8:68:ARG:HB3	11:a9:82:GLN:N	1.64	1.12
4:M8:160:THR:HG22	4:M8:257:GLN:HB2	1.27	1.12
4:M8:230:GLN:HB3	12:M8:301:CYC:OB	0.94	1.12
2:N8:33:ARG:HH12	12:Y8:201:CYC:C4B	1.60	1.12
5:Z8:1:MET:HB3	5:Z8:3:VAL:HG23	1.30	1.12
11:a9:30:MET:CB	11:a9:34:ILE:O	1.97	1.12
4:MA:163:ASN:HD21	12:VA:201:CYC:CMA	1.62	1.11
4:M3:134:ASN:HB2	12:P3:201:CYC:CAA	1.80	1.11
4:M4:100:SER:H	3:Q4:1:MET:CE	1.60	1.11
4:M4:225:LYS:HE3	3:Y4:81:ALA:HB2	1.30	1.11
5:Z4:41:GLN:CB	12:Z4:301:CYC:C1B	2.27	1.11
1:B5:87:TYR:HE1	9:z5:19:THR:O	1.32	1.11
8:G5:107:ILE:HG12	1:H5:13:ASP:OD2	1.48	1.11
1:f5:38:VAL:HG13	10:j5:40:VAL:CG1	1.78	1.11
10:j5:766:ALA:HB1	8:K7:14:GLU:OE2	1.43	1.11
10:k5:1052:PRO:HB3	1:l7:106:GLU:OE2	1.50	1.11
10:k5:1067:LEU:CD1	10:k5:1101:GLU:HG2	1.78	1.11
3:F6:130:ALA:CB	12:F6:201:CYC:CBC	2.28	1.11
8:i7:25:ARG:NH1	8:s7:6:LYS:HG2	1.64	1.11
8:u7:17:TYR:HE2	1:v7:93:THR:OG1	1.30	1.11
1:v7:62:TYR:HB3	11:aA:602:PRO:HD2	1.15	1.11
3:U8:111:ASN:OD1	4:M8:77:LEU:HD13	1.46	1.11
4:M8:128:ALA:C	4:M8:142:PHE:CE1	2.28	1.11
4:M8:197:ASP:O	5:Z8:52:ARG:CZ	1.98	1.11
4:M9:148:LYS:HD3	4:M9:197:ASP:OD1	1.50	1.11
11:a9:338:VAL:HG22	11:a9:340:PRO:CG	1.77	1.11
5:N1:22:LEU:HD22	5:N1:26:LEU:CD2	1.77	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FA:150:ARG:CD	3:F9:150:ARG:HG2	1.79	1.11
5:NA:1:MET:HG3	3:RA:119:ALA:HB2	1.29	1.11
5:NA:70:ILE:HG21	3:TA:116:THR:HA	1.26	1.11
4:M3:51:ARG:NH2	11:a9:694:ARG:CZ	2.13	1.11
3:S4:120:LEU:CD2	12:S4:202:CYC:HBD1	1.80	1.11
4:M4:225:LYS:CE	3:Y4:81:ALA:HB2	1.80	1.11
2:N4:111:ALA:C	5:Z4:34:LEU:CG	2.23	1.11
3:O4:107:ASP:CG	5:Z4:66:ARG:CD	2.23	1.11
10:j5:793:SER:HB3	12:T7:201:CYC:O2A	1.50	1.11
10:j5:931:VAL:HG13	1:J7:29:ALA:CB	1.78	1.11
10:k5:1047:LYS:O	10:k5:1051:GLU:HB3	1.47	1.11
12:d7:201:CYC:CBB	9:x7:42:GLN:OE1	1.98	1.11
8:u7:103:PRO:HB3	1:v7:9:ILE:HG21	1.12	1.11
3:U8:108:ARG:O	4:M8:246:ALA:HB1	1.48	1.11
4:M8:141:GLU:HB2	4:M8:144:ARG:HH21	1.13	1.11
4:M9:185:ALA:HA	12:V9:201:CYC:CGA	1.79	1.11
3:J9:109:CYS:O	11:a9:518:ALA:HB2	1.46	1.11
11:aA:694:ARG:NH1	4:M1:51:ARG:HH21	1.44	1.11
11:aA:710:THR:HG22	11:aA:807:GLN:HB3	1.32	1.11
12:V1:202:CYC:HMD1	12:V1:202:CYC:HC	1.10	1.11
3:FA:36:LYS:HB3	3:FA:156:LEU:HD13	1.31	1.11
4:M3:148:LYS:HD3	4:M3:197:ASP:OD1	1.49	1.11
3:S4:72:ASN:HD22	3:S4:123:PRO:CD	1.61	1.11
3:L4:68:ARG:HD2	11:aA:81:ASP:CA	1.80	1.11
8:Q5:15:ALA:O	1:R5:90:ARG:NE	1.82	1.11
1:T5:53:LYS:CD	8:U5:118:SER:O	1.99	1.11
8:U5:76:LYS:HG3	8:U5:77:MET:HE2	1.31	1.11
8:U5:79:ALA:CB	6:M6:32:MET:HA	1.79	1.11
10:j5:1018:LEU:CD1	10:j5:1035:PHE:CE2	2.31	1.11
10:k5:1009:ALA:HB2	1:p7:87:TYR:CE1	1.85	1.11
1:B7:136:VAL:CG1	11:a9:563:PHE:CZ	2.33	1.11
3:O8:111:ASN:O	5:Z8:67:ILE:CG2	1.99	1.11
4:M9:7:SER:N	3:D9:107:ASP:O	1.83	1.11
5:Z8:41:GLN:CB	12:Z8:301:CYC:C3B	2.18	1.11
3:H9:116:THR:HG21	12:H9:202:CYC:HMA3	1.26	1.11
1:Z:161:SER:OG	1:X5:14:VAL:CG2	1.99	1.11
12:H3:202:CYC:O2A	11:a9:776:TYR:CD2	2.04	1.11
6:M2:53:LEU:CD2	8:i7:80:LEU:HG	1.80	1.11
8:G5:119:LEU:HD13	12:G5:201:CYC:CHA	1.81	1.11
1:b5:17:LYS:O	10:k5:169:TYR:OH	1.66	1.11
1:H7:140:LEU:CD1	11:aA:561:ALA:CB	2.28	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I7:25:ARG:NH2	8:W7:25:ARG:HD3	1.65	1.11
8:q7:68:PRO:HG2	11:aA:334:LYS:HD3	1.13	1.11
4:M8:144:ARG:HG2	4:M8:204:ILE:HD13	1.24	1.11
3:O8:107:ASP:OD1	5:Z8:66:ARG:HD2	0.93	1.11
4:M9:113:ILE:HD11	4:M9:143:VAL:HG13	1.13	1.11
5:N9:22:LEU:CD1	5:N9:26:LEU:HD21	1.80	1.11
3:J9:119:ALA:C	11:a9:365:LYS:HE2	1.76	1.11
11:a9:245:ALA:HB2	12:a9:901:CYC:CBB	1.80	1.11
11:aA:694:ARG:CZ	4:M1:51:ARG:NH2	2.14	1.11
12:JA:202:CYC:HBA2	11:aA:511:LYS:HA	1.18	1.11
4:MA:58:TYR:CD2	11:aA:496:ARG:NH2	2.19	1.11
4:MA:158:PHE:CA	3:VA:108:ARG:HD3	1.79	1.11
3:B4:68:ARG:NH1	3:U4:68:ARG:HH22	1.47	1.11
12:H4:202:CYC:HMD1	12:H4:202:CYC:HC	1.11	1.11
12:L5:201:CYC:HB	12:L5:201:CYC:HMA1	1.06	1.11
9:i5:6:LYS:CG	9:i5:55:LYS:HB2	1.81	1.11
1:R7:49:THR:HG21	8:C7:161:GLN:HG2	1.28	1.11
2:N8:11:SER:HA	5:Z8:62:ARG:HH21	1.11	1.11
2:N8:112:GLY:N	5:Z8:34:LEU:CA	2.14	1.11
3:Q8:120:LEU:HD11	3:Q8:122:THR:CA	1.80	1.11
3:Q8:127:VAL:CG2	12:Z8:301:CYC:HMC1	1.77	1.11
5:Z8:37:HIS:CD2	12:Z8:301:CYC:CHB	2.34	1.11
2:I9:31:PHE:CE2	3:J9:31:VAL:HA	1.62	1.11
2:I9:113:LEU:HD21	2:I9:161:LEU:HD23	1.25	1.11
2:G1:107:ASP:CA	3:L1:77:ARG:CZ	2.27	1.11
5:N1:22:LEU:CD1	5:N1:26:LEU:HD21	1.81	1.11
3:FA:145:PRO:HG2	12:F9:302:CYC:HMC2	1.22	1.10
3:JA:78:ARG:HH12	11:aA:359:ASP:HA	1.15	1.10
5:NA:66:ARG:HB2	3:TA:111:ASN:ND2	1.64	1.10
2:QA:69:PRO:HB3	2:U1:47:ASN:HA	1.32	1.10
2:G3:107:ASP:CA	3:L3:77:ARG:CZ	2.27	1.10
3:H3:68:ARG:HD3	11:a9:615:ARG:O	1.47	1.10
2:O3:63:PHE:HB2	2:O3:66:LEU:HD11	1.20	1.10
3:F4:115:GLU:CB	4:M4:3:VAL:HG13	1.80	1.10
4:M4:140:ARG:HH11	4:M4:144:ARG:CZ	1.64	1.10
4:M4:144:ARG:HE	4:M4:204:ILE:HG22	0.96	1.10
5:Z4:1:MET:HB3	5:Z4:3:VAL:HG23	1.30	1.10
8:A5:64:ASP:HA	8:A5:67:SER:OG	1.49	1.10
1:B5:10:ASN:OD1	10:k5:557:VAL:HB	0.93	1.10
8:G5:64:ASP:HA	8:G5:67:SER:OG	1.49	1.10
8:Q5:11:ALA:HB1	1:R5:94:TYR:HE1	1.13	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:974:LEU:CD2	1:v7:1:MET:H3	1.63	1.10
10:k5:362:LYS:HE2	10:k5:363:HIS:NE2	1.66	1.10
8:k7:68:PRO:HG2	11:a9:334:LYS:CD	1.80	1.10
8:u7:29:PHE:CD2	1:v7:31:PHE:HE1	1.69	1.10
3:F8:107:ASP:CA	4:M8:8:SER:H	1.63	1.10
4:M8:104:ALA:CB	2:P8:14:SER:N	2.13	1.10
12:L9:201:CYC:HMD1	12:L9:201:CYC:HC	1.09	1.10
5:Z8:22:LEU:CD1	5:Z8:26:LEU:HD21	1.81	1.10
3:J9:119:ALA:O	11:a9:365:LYS:NZ	1.81	1.10
11:a9:91:THR:HG22	11:a9:96:THR:HA	1.31	1.10
4:M1:258:LYS:HZ2	3:Z1:111:ASN:ND2	1.48	1.10
12:Z1:201:CYC:HMD1	12:Z1:201:CYC:HC	1.10	1.10
12:F2:202:CYC:HMD1	12:F2:202:CYC:HC	1.10	1.10
2:EA:33:ARG:HG2	2:IA:25:GLN:OE1	1.48	1.10
3:TA:25:ASN:OD1	2:X4:68:GLN:CG	1.99	1.10
12:L2:202:CYC:HMD1	12:L2:202:CYC:HC	1.10	1.10
3:B3:88:ILE:HG23	12:B3:202:CYC:HAB2	1.28	1.10
4:M3:113:ILE:HD11	4:M3:143:VAL:HG13	1.13	1.10
3:U4:120:LEU:HD11	12:U4:201:CYC:CBD	1.79	1.10
3:H4:84:ARG:CB	11:aA:131:TYR:CE1	2.32	1.10
1:N5:113:LYS:NZ	1:Z5:155:TYR:CZ	2.19	1.10
6:M6:53:LEU:HD23	8:c7:80:LEU:HD23	1.20	1.10
10:k5:743:VAL:HG12	12:D7:201:CYC:O2D	1.48	1.10
3:H8:119:ALA:CB	11:a9:266:ASN:ND2	1.98	1.10
3:L8:59:LEU:HD21	12:a9:901:CYC:HMC3	1.32	1.10
4:M8:101:ASP:HA	2:P8:13:ASP:HB3	1.30	1.10
3:O8:104:VAL:HA	5:Z8:61:LYS:HZ1	1.05	1.10
4:M9:163:ASN:HD21	12:V9:201:CYC:CMA	1.62	1.10
4:M9:263:PRO:HB2	3:V9:119:ALA:HB2	1.24	1.10
2:E9:33:ARG:HG2	2:I9:25:GLN:OE1	1.48	1.10
2:K9:15:GLN:HA	11:a9:393:ARG:HH11	1.16	1.10
11:a9:95:ILE:CD1	11:a9:237:PHE:CE1	2.33	1.10
11:a9:283:GLN:CB	11:a9:284:PRO:CD	2.01	1.10
3:HA:113:LEU:HD11	12:HA:202:CYC:HMB3	1.25	1.10
3:JA:119:ALA:C	11:aA:365:LYS:HE2	1.77	1.10
12:JA:202:CYC:HBA1	11:aA:511:LYS:CA	1.79	1.10
4:MA:29:PRO:CD	11:aA:378:GLU:CD	2.24	1.10
12:P1:201:CYC:CAA	4:M1:134:ASN:HB2	1.80	1.10
3:L2:75:PRO:CG	3:L2:78:ARG:HB2	1.80	1.10
6:M2:57:GLU:OE1	8:i7:76:LYS:CE	1.99	1.10
3:L3:108:ARG:O	11:a9:712:ASN:OD1	1.67	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:1:MET:N	11:aA:149:SER:O	1.83	1.10
8:K5:80:LEU:CD1	12:K5:201:CYC:HAD2	1.79	1.10
1:f5:114:GLU:HB3	10:j5:491:THR:CG2	1.82	1.10
1:b5:38:VAL:HG13	10:k5:40:VAL:HG13	1.16	1.10
9:z5:6:LYS:CG	9:z5:55:LYS:HB2	1.81	1.10
10:k5:56:ILE:CD1	10:k5:219:ASP:HB3	1.79	1.10
3:B8:68:ARG:NH1	3:U8:68:ARG:HH22	1.47	1.10
3:F8:77:ARG:HD2	11:a9:146:ARG:HH12	0.98	1.10
3:Q8:102:ALA:HB1	3:Q8:166:LYS:HE2	1.24	1.10
4:M9:29:PRO:CD	11:a9:378:GLU:CD	2.23	1.10
5:N9:1:MET:HB3	5:N9:3:VAL:HG23	1.30	1.10
12:R9:202:CYC:HMD1	12:R9:202:CYC:HC	1.11	1.10
11:aA:312:ASP:C	11:aA:315:LEU:N	2.10	1.10
11:aA:640:ALA:HB1	11:aA:767:THR:CG2	1.82	1.10
3:F2:78:ARG:HD3	12:F2:201:CYC:O2D	0.92	1.10
4:MA:160:THR:HG22	4:MA:257:GLN:HB2	1.27	1.10
3:H3:78:ARG:HH22	11:a9:623:ASP:CB	1.64	1.10
3:L2:77:ARG:NH2	6:M2:70:GLU:CD	2.09	1.10
6:M2:26:PHE:CE1	8:O5:87:TYR:HD1	1.54	1.10
6:M2:53:LEU:HD23	8:i7:80:LEU:CG	1.82	1.10
12:P3:202:CYC:HMD1	12:P3:202:CYC:HC	1.10	1.10
3:Q4:7:LYS:CE	3:Q4:101:ASP:OD1	1.99	1.10
1:N5:53:LYS:CD	8:O5:118:SER:O	1.99	1.10
8:G5:6:LYS:NZ	8:S5:19:SER:CB	2.14	1.10
8:Q5:12:ASP:CA	1:R5:94:TYR:HE2	1.60	1.10
1:X5:144:ASP:HB3	8:a5:38:ARG:NH2	1.66	1.10
9:i5:6:LYS:CB	9:i5:55:LYS:CB	2.02	1.10
10:k5:1146:THR:CB	1:p7:77:ARG:NH2	2.15	1.10
3:F6:82:CYS:SG	12:F6:201:CYC:HAC2	1.92	1.10
1:H7:140:LEU:CD1	11:aA:561:ALA:HB1	1.81	1.10
8:I7:76:LYS:NZ	11:aA:567:GLN:NE2	1.89	1.10
12:D8:202:CYC:HBA2	4:M8:35:THR:HA	1.22	1.10
4:M8:128:ALA:HB1	4:M8:142:PHE:CE1	1.85	1.10
4:M8:225:LYS:HA	12:M8:301:CYC:O1A	1.52	1.10
4:M8:235:PHE:CB	12:M8:301:CYC:C2A	2.30	1.10
4:M9:157:PHE:O	3:V9:108:ARG:CD	2.00	1.10
2:K9:15:GLN:C	11:a9:393:ARG:NH1	2.08	1.10
11:aA:95:ILE:CD1	11:aA:237:PHE:CE1	2.33	1.10
4:M1:113:ILE:HD11	4:M1:143:VAL:HG13	1.13	1.10
3:FA:145:PRO:CD	12:F9:302:CYC:HMC3	1.81	1.10
3:JA:119:ALA:O	11:aA:365:LYS:NZ	1.82	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:PA:202:CYC:HMD1	12:PA:202:CYC:HC	1.10	1.10
3:L2:75:PRO:CD	3:L2:78:ARG:HB2	1.81	1.10
6:M2:50:LEU:CD2	8:i7:79:ALA:O	2.00	1.10
3:Z3:111:ASN:ND2	4:M3:258:LYS:HZ2	1.48	1.10
3:B4:68:ARG:NH2	3:U4:68:ARG:NH2	2.00	1.10
3:D4:1:MET:N	11:aA:111:THR:OG1	1.84	1.10
4:M4:87:ILE:CD1	3:Y4:77:ARG:CG	2.23	1.10
3:Y4:124:THR:HB	3:Y4:172:ALA:CA	1.78	1.10
8:U5:83:ARG:HG2	6:M6:31:ASP:OD1	0.92	1.10
8:U5:83:ARG:NE	6:M6:27:ALA:O	1.85	1.10
6:M6:50:LEU:HD22	8:c7:79:ALA:O	1.43	1.10
10:j5:1118:THR:OG1	12:j5:1202:CYC:O2A	1.70	1.10
10:k5:489:ASN:O	10:k5:490:SER:OG	1.69	1.10
10:k5:1018:LEU:HD11	10:k5:1035:PHE:CZ	1.77	1.10
10:k5:1045:TYR:OH	10:k5:1062:LEU:HD23	1.52	1.10
10:k5:1143:LEU:HD13	8:k7:103:PRO:HA	1.29	1.10
12:H7:201:CYC:HMA1	12:H7:201:CYC:HB	1.06	1.10
8:o7:29:PHE:CD2	1:p7:31:PHE:HE1	1.69	1.10
8:o7:103:PRO:HG3	1:p7:9:ILE:CD1	1.81	1.10
2:X8:16:GLY:CA	4:M8:228:SER:CB	2.28	1.10
2:X8:68:GLN:CG	3:T9:25:ASN:OD1	1.99	1.10
4:M8:56:MET:HE1	4:M8:66:VAL:HG21	1.23	1.10
4:M9:58:TYR:CD2	11:a9:496:ARG:NH2	2.19	1.10
3:J9:111:ASN:O	11:a9:519:ARG:N	1.84	1.10
3:DA:107:ASP:O	4:MA:7:SER:N	1.83	1.09
3:HA:120:LEU:HD11	12:HA:202:CYC:HAA1	1.10	1.09
4:MA:148:LYS:HD3	4:MA:197:ASP:OD1	1.49	1.09
4:MA:162:ASN:H	12:VA:201:CYC:HBB3	1.07	1.09
4:MA:274:VAL:OXT	3:VA:77:ARG:NE	1.85	1.09
5:NA:22:LEU:CD1	5:NA:26:LEU:HD21	1.80	1.09
12:J3:201:CYC:HMD1	12:J3:201:CYC:HC	1.10	1.09
12:B4:201:CYC:HMD1	12:B4:201:CYC:HC	1.10	1.09
12:L3:201:CYC:HMD1	12:L3:201:CYC:HC	1.10	1.09
5:N3:22:LEU:CD1	5:N3:26:LEU:HD21	1.81	1.09
12:B1:201:CYC:HMD1	12:B1:201:CYC:HC	1.10	1.09
3:F4:107:ASP:HA	4:M4:8:SER:H	0.98	1.09
8:M5:19:SER:CB	8:A5:6:LYS:NZ	2.14	1.09
8:c5:9:VAL:CG1	10:j5:344:ARG:CZ	2.30	1.09
8:Q5:16:ARG:HA	1:R5:90:ARG:HD3	1.23	1.09
10:j5:489:ASN:O	10:j5:490:SER:OG	1.69	1.09
10:j5:1045:TYR:OH	10:j5:1062:LEU:HD23	1.52	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1105:ILE:CD1	10:j5:1115:ARG:NH2	2.15	1.09
8:i7:25:ARG:HH22	8:s7:6:LYS:N	1.46	1.09
8:i7:39:ILE:CD1	8:i7:148:GLU:HG2	1.75	1.09
8:u7:103:PRO:HG3	1:v7:9:ILE:CD1	1.81	1.09
3:U8:114:LYS:HE2	4:M8:13:LYS:HZ1	1.04	1.09
4:M8:126:THR:HB	12:M8:302:CYC:CGA	1.80	1.09
3:O8:104:VAL:HA	5:Z8:61:LYS:CE	1.82	1.09
3:J9:88:ILE:HD11	11:a9:512:TYR:CE1	1.86	1.09
11:a9:312:ASP:C	11:a9:315:LEU:N	2.10	1.09
11:aA:708:HIS:HB3	3:L1:108:ARG:HH21	0.96	1.09
11:aA:712:ASN:OD1	3:L1:108:ARG:O	1.68	1.09
4:M1:148:LYS:HD3	4:M1:197:ASP:OD1	1.49	1.09
1:A:161:SER:HB2	1:R5:14:VAL:HB	1.18	1.09
3:JA:119:ALA:O	11:aA:365:LYS:HE3	1.35	1.09
12:JA:202:CYC:NB	11:aA:512:TYR:HB2	1.44	1.09
5:NA:54:LEU:CD2	3:TA:84:ARG:NE	2.14	1.09
4:M4:205:ASP:HB3	5:Z4:59:ARG:HE	1.10	1.09
4:M4:230:GLN:HG2	12:M4:301:CYC:OB	1.50	1.09
3:Q4:77:ARG:HG3	5:Z4:34:LEU:O	1.50	1.09
1:X5:106:GLU:HG2	10:j5:504:ASP:O	1.50	1.09
10:k5:741:GLN:HG3	1:D7:77:ARG:HH22	1.08	1.09
10:k5:889:LEU:HA	12:D7:201:CYC:OB	1.52	1.09
3:B8:81:ALA:CB	12:B8:202:CYC:HMD3	1.79	1.09
12:D8:201:CYC:HMD1	12:D8:201:CYC:HC	1.11	1.09
8:u7:27:LYS:HE3	1:v7:35:ALA:HB1	1.09	1.09
3:Q8:127:VAL:HG22	12:Z8:301:CYC:HMC3	1.31	1.09
11:a9:99:ALA:HB1	11:a9:100:PRO:HD3	1.34	1.09
12:T1:302:CYC:HMD1	12:T1:302:CYC:HC	1.10	1.09
5:NA:1:MET:HG2	3:RA:119:ALA:HB3	1.33	1.09
2:QA:33:ARG:NE	12:VA:202:CYC:HBB3	1.67	1.09
3:B3:88:ILE:HD13	12:B3:202:CYC:C3B	1.80	1.09
2:N4:112:GLY:CA	5:Z4:34:LEU:HB2	1.83	1.09
2:P4:19:LEU:CD2	3:Q4:95:TYR:HE1	1.64	1.09
3:Q4:77:ARG:HA	5:Z4:34:LEU:HB3	1.26	1.09
8:W5:11:ALA:HB1	1:X5:94:TYR:HE1	1.13	1.09
1:Z5:28:LYS:HD3	1:t7:143:PRO:CB	1.82	1.09
1:b5:114:GLU:HB3	10:k5:491:THR:HG23	1.22	1.09
10:k5:56:ILE:HD13	10:k5:219:ASP:HB3	1.09	1.09
8:O7:25:ARG:NH2	8:E7:25:ARG:CB	2.14	1.09
8:O7:52:LYS:CE	11:aA:29:ARG:HH12	1.64	1.09
8:I7:25:ARG:HH21	8:W7:25:ARG:HB3	1.07	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i7:21:GLY:CA	8:s7:100:ASP:OD1	1.99	1.09
8:i7:39:ILE:HD13	8:i7:148:GLU:HG3	1.26	1.09
8:c7:20:PRO:HG2	8:m7:155:TYR:HB2	1.13	1.09
3:B8:82:CYS:CA	12:B8:202:CYC:C1C	2.30	1.09
8:o7:5:THR:OG1	1:p7:6:THR:HG21	1.52	1.09
8:o7:23:LEU:HD22	1:p7:38:VAL:HA	1.17	1.09
8:o7:121:THR:HG23	12:o7:201:CYC:HMC3	1.24	1.09
8:q7:79:ALA:HB2	11:aA:53:VAL:HG21	1.13	1.09
1:r7:17:LYS:NZ	11:aA:41:ASP:OD2	1.82	1.09
2:N8:63:PHE:HB2	2:N8:66:LEU:HD11	1.20	1.09
3:Q8:78:ARG:CD	12:Z8:301:CYC:HAD1	1.81	1.09
4:M9:274:VAL:HG22	3:V9:77:ARG:HB2	1.12	1.09
5:N9:54:LEU:CD2	3:T9:84:ARG:NE	2.14	1.09
3:H9:117:TYR:CE1	12:H9:202:CYC:HHB	1.87	1.09
12:J9:202:CYC:NB	11:a9:512:TYR:HB2	1.44	1.09
11:a9:331:TYR:HA	11:a9:333:GLN:NE2	1.67	1.09
11:aA:99:ALA:CB	11:aA:100:PRO:CD	2.30	1.09
11:aA:586:LEU:C	11:aA:590:PRO:HG3	1.76	1.09
3:JA:111:ASN:O	11:aA:519:ARG:N	1.85	1.09
2:OA:63:PHE:HB2	2:OA:66:LEU:HD11	1.20	1.09
3:D4:14:LEU:CD1	3:Y4:125:ARG:CD	2.29	1.09
3:B1:91:ARG:CZ	11:aA:677:GLN:NE2	2.15	1.09
12:M4:301:CYC:C1C	3:Y4:72:ASN:OD1	2.01	1.09
2:N4:111:ALA:C	5:Z4:34:LEU:HD12	1.78	1.09
3:O4:107:ASP:CB	5:Z4:66:ARG:CB	2.30	1.09
3:O4:115:GLU:HB2	5:Z4:70:ILE:O	1.51	1.09
3:Q4:120:LEU:CD2	5:Z4:42:SER:CB	2.31	1.09
5:Z4:26:LEU:HD21	5:Z4:63:ASN:HB3	1.13	1.09
12:B5:201:CYC:HBB2	9:z5:21:ARG:HA	1.34	1.09
10:k5:889:LEU:HD22	12:D7:201:CYC:CBB	1.81	1.09
10:k5:1105:ILE:HD12	10:k5:1115:ARG:NH2	1.68	1.09
2:A6:63:PHE:HB2	2:A6:66:LEU:HD11	1.19	1.09
8:O7:25:ARG:NH2	8:E7:25:ARG:HB3	1.65	1.09
8:g7:63:PRO:HD3	11:aA:336:ILE:HG22	1.25	1.09
8:i7:39:ILE:HD13	8:i7:148:GLU:CB	1.83	1.09
8:i7:94:TYR:CE1	1:j7:9:ILE:HG23	1.86	1.09
8:o7:97:VAL:CG2	1:p7:19:LEU:CD1	2.30	1.09
12:M8:301:CYC:ND	3:Y8:85:ASP:OD2	1.85	1.09
3:Q8:78:ARG:HD3	12:Z8:301:CYC:CAD	1.80	1.09
11:a9:99:ALA:CB	11:a9:100:PRO:CD	2.30	1.09
11:a9:640:ALA:HB1	11:a9:767:THR:CG2	1.82	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:666:ASN:CG	12:aA:901:CYC:OB	1.94	1.09
12:L1:201:CYC:HMD1	12:L1:201:CYC:HC	1.10	1.09
12:BA:202:CYC:HMD1	12:BA:202:CYC:HC	1.10	1.09
12:J3:202:CYC:OB	11:a9:666:ASN:CG	1.96	1.09
4:M3:120:LEU:CD2	3:X3:84:ARG:NH1	2.15	1.09
4:M3:160:THR:HG22	4:M3:257:GLN:HB2	1.27	1.09
4:M3:190:ARG:NH1	4:M3:202:SER:CB	2.16	1.09
12:J4:202:CYC:HC	12:J4:202:CYC:HMD1	1.10	1.09
4:M4:140:ARG:HH12	4:M4:144:ARG:NH1	1.50	1.09
3:Q4:72:ASN:HD21	12:Z4:301:CYC:HBD2	1.12	1.09
5:Z4:41:GLN:HG3	12:Z4:301:CYC:C2B	1.82	1.09
8:A5:122:PRO:O	12:A5:201:CYC:CMC	2.00	1.09
8:G5:122:PRO:O	12:G5:201:CYC:CMC	2.00	1.09
1:H5:87:TYR:CE1	9:i5:19:THR:O	2.06	1.09
1:T5:53:LYS:HZ2	8:U5:120:GLN:CD	1.60	1.09
8:U5:75:GLU:HG3	6:M6:36:ILE:HG13	1.26	1.09
1:Z5:161:SER:HB3	10:k5:695:GLY:O	1.51	1.09
10:j5:362:LYS:HE2	10:j5:363:HIS:NE2	1.66	1.09
10:j5:386:ILE:CD1	10:j5:395:SER:OG	1.82	1.09
10:k5:1077:ILE:O	12:k5:1203:CYC:HBA1	1.52	1.09
10:k5:1153:VAL:CG2	1:p7:125:ALA:HB2	1.82	1.09
8:I7:25:ARG:HH22	8:W7:25:ARG:HD3	0.95	1.09
8:o7:18:LEU:HD13	1:p7:97:LEU:HD12	1.33	1.09
8:u7:23:LEU:HD22	1:v7:38:VAL:HA	1.17	1.09
3:L8:109:CYS:HA	12:a9:901:CYC:HBB1	1.28	1.09
4:M8:113:ILE:HD11	4:M8:143:VAL:HG13	1.13	1.09
3:Q8:77:ARG:HG3	5:Z8:34:LEU:O	1.33	1.09
4:M1:120:LEU:CD2	3:X1:84:ARG:NH1	2.15	1.09
5:N1:1:MET:HB3	5:N1:3:VAL:HG23	1.30	1.09
3:FA:68:ARG:HH12	3:ZA:68:ARG:CZ	1.66	1.08
12:JA:201:CYC:HMD1	12:JA:201:CYC:HC	1.10	1.08
4:MA:273:ILE:CD1	3:VA:75:PRO:CD	2.31	1.08
4:M4:226:SER:CB	3:Y4:85:ASP:OD1	2.01	1.08
8:A5:119:LEU:HD13	12:A5:201:CYC:CHA	1.81	1.08
9:i5:6:LYS:N	9:i5:55:LYS:O	1.86	1.08
10:j5:742:GLY:C	12:J7:201:CYC:O2D	1.95	1.08
10:k5:53:ARG:O	10:k5:56:ILE:HG22	1.53	1.08
10:k5:1025:LEU:CD2	10:k5:1035:PHE:CB	2.14	1.08
10:k5:1105:ILE:CD1	10:k5:1115:ARG:NH2	2.15	1.08
12:F6:202:CYC:HMD1	12:F6:202:CYC:HC	1.10	1.08
12:Q7:201:CYC:HMD1	12:Q7:201:CYC:HC	1.18	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i7:39:ILE:CD1	8:i7:148:GLU:HB3	1.82	1.08
3:D8:1:MET:N	11:a9:111:THR:OG1	1.85	1.08
8:o7:103:PRO:HB3	1:p7:9:ILE:HG21	1.12	1.08
1:p7:136:VAL:HG13	11:a9:342:ARG:HH12	0.94	1.08
2:R8:64:PRO:HG2	3:T9:21:GLU:HB3	1.10	1.08
4:M9:263:PRO:HB2	3:V9:119:ALA:HB3	1.23	1.08
12:H9:201:CYC:HMD1	12:H9:201:CYC:HC	1.10	1.08
11:aA:622:ALA:H	3:J1:14:LEU:HD21	1.18	1.08
11:aA:798:SER:CB	12:aA:901:CYC:HAA1	1.83	1.08
1:Z:161:SER:HB2	1:X5:14:VAL:HB	1.29	1.08
3:JA:88:ILE:HD11	11:aA:512:TYR:CE1	1.88	1.08
4:MA:190:ARG:NH1	4:MA:202:SER:CB	2.16	1.08
5:NA:54:LEU:CD2	3:TA:84:ARG:CZ	2.30	1.08
6:M2:26:PHE:HB3	8:O5:83:ARG:HD2	1.18	1.08
3:L3:88:ILE:HG13	11:a9:742:GLN:NE2	0.92	1.08
3:H4:119:ALA:HB1	11:aA:266:ASN:HB2	1.29	1.08
4:M4:148:LYS:HZ2	5:Z4:52:ARG:HD2	1.07	1.08
3:Q4:120:LEU:HD11	5:Z4:40:SER:H	0.94	1.08
8:W5:11:ALA:HB1	1:X5:94:TYR:CE1	1.83	1.08
10:k5:778:LYS:NZ	12:F7:201:CYC:HBB2	1.68	1.08
12:B6:201:CYC:HMD1	12:B6:201:CYC:HC	1.10	1.08
3:L8:71:GLY:N	11:a9:82:GLN:CG	2.16	1.08
4:M8:190:ARG:NH1	4:M8:202:SER:CB	2.16	1.08
2:P8:17:ARG:C	3:Q8:91:ARG:NH2	2.10	1.08
4:M9:134:ASN:HB2	12:R9:201:CYC:HAA1	1.35	1.08
11:aA:643:LEU:HD21	11:aA:689:VAL:HG23	1.35	1.08
1:Z:161:SER:CB	1:X5:14:VAL:HG23	1.78	1.08
3:FA:68:ARG:NH1	3:ZA:68:ARG:NH1	1.66	1.08
2:KA:18:PHE:CE2	3:LA:48:ALA:CB	2.37	1.08
4:MA:189:ASP:OD1	3:VA:84:ARG:NH1	1.85	1.08
4:MA:263:PRO:HB2	3:VA:119:ALA:HB3	1.23	1.08
4:MA:273:ILE:HD11	3:VA:75:PRO:HD3	1.33	1.08
12:ZA:201:CYC:HMD1	12:ZA:201:CYC:HC	1.10	1.08
3:L2:75:PRO:HD2	3:L2:78:ARG:HB2	1.35	1.08
12:B3:201:CYC:HMD1	12:B3:201:CYC:HC	1.10	1.08
3:B4:120:LEU:HD13	4:M4:53:LEU:HB2	1.16	1.08
4:M4:140:ARG:NH1	4:M4:144:ARG:CZ	2.17	1.08
4:M4:214:GLY:HA2	5:Z4:27:ALA:O	1.50	1.08
12:M4:301:CYC:HMB2	3:Y4:89:ILE:HD11	1.30	1.08
3:Q4:102:ALA:HB1	3:Q4:166:LYS:HE2	1.33	1.08
8:C5:41:GLN:HB2	1:D5:24:LEU:HD11	1.31	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H5:14:VAL:CG1	10:j5:554:ASN:O	1.99	1.08
1:d5:110:ASN:ND2	10:j5:451:LYS:HB3	1.69	1.08
1:Z5:28:LYS:CE	1:t7:143:PRO:CB	2.31	1.08
10:j5:929:PRO:CG	1:J7:147:LYS:HE2	1.83	1.08
10:j5:938:GLN:CD	1:J7:28:LYS:HD2	1.78	1.08
10:j5:971:VAL:HG11	1:t7:76:ARG:HH12	1.15	1.08
10:k5:931:VAL:HG13	1:D7:29:ALA:HB1	1.22	1.08
8:c7:39:ILE:CD1	8:c7:148:GLU:HB3	1.82	1.08
12:B8:201:CYC:HMD1	12:B8:201:CYC:HC	1.10	1.08
2:X8:16:GLY:HA2	4:M8:228:SER:HB2	1.23	1.08
4:M8:205:ASP:HB3	5:Z8:59:ARG:CZ	1.83	1.08
3:O8:104:VAL:HG23	5:Z8:61:LYS:HE3	1.30	1.08
4:M9:29:PRO:HD3	11:a9:378:GLU:OE2	1.53	1.08
4:M9:190:ARG:NH1	4:M9:202:SER:CB	2.16	1.08
11:a9:798:SER:HB3	11:a9:800:THR:HB	1.29	1.08
11:aA:621:THR:HG22	3:J1:14:LEU:HD22	1.19	1.08
11:aA:632:ILE:HG12	3:J1:107:ASP:OD1	1.52	1.08
4:M1:263:PRO:HB2	3:Z1:119:ALA:HB2	1.34	1.08
4:MA:37:GLU:OE1	4:MA:40:GLN:NE2	1.86	1.08
4:MA:160:THR:HG22	4:MA:257:GLN:CB	1.84	1.08
4:MA:274:VAL:HG11	2:WA:111:ALA:HB1	1.14	1.08
3:J3:84:ARG:HD2	11:a9:668:TYR:HB3	1.18	1.08
3:B3:91:ARG:CZ	11:a9:677:GLN:NE2	2.16	1.08
3:B4:120:LEU:CD2	4:M4:52:LEU:HB3	1.81	1.08
3:Q4:72:ASN:ND2	12:Z4:301:CYC:HBD2	1.68	1.08
3:Y4:113:LEU:HG	3:Y4:171:ILE:HG12	1.33	1.08
12:B5:201:CYC:HB	12:B5:201:CYC:HMA1	1.06	1.08
12:H5:201:CYC:HBA2	9:i5:26:THR:HG21	1.29	1.08
1:f5:38:VAL:HG13	10:j5:40:VAL:HG13	1.25	1.08
9:z5:22:GLU:C	9:z5:25:ASN:H	1.61	1.08
10:j5:1020:GLU:HG3	1:f7:87:TYR:CZ	1.87	1.08
10:k5:148:TYR:O	10:k5:152:ARG:HG3	1.54	1.08
10:k5:931:VAL:CG2	1:D7:29:ALA:O	2.00	1.08
12:B7:201:CYC:HB	12:B7:201:CYC:HMA1	1.06	1.08
12:K7:201:CYC:HMD1	12:K7:201:CYC:HC	1.18	1.08
8:g7:52:LYS:HD2	11:aA:321:ALA:HB1	1.13	1.08
3:B8:68:ARG:NH2	3:U8:68:ARG:NH2	2.00	1.08
8:u7:5:THR:OG1	1:v7:6:THR:HG21	1.52	1.08
3:L8:82:CYS:SG	12:a9:901:CYC:C3C	2.41	1.08
3:O8:111:ASN:OD1	5:Z8:68:LEU:HA	1.35	1.08
3:F9:68:ARG:HH12	3:Z9:68:ARG:CZ	1.66	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:107:ARG:HG2	11:a9:108:PRO:HD2	1.25	1.08
3:FA:151:GLY:N	3:F9:150:ARG:HH21	1.51	1.08
4:MA:157:PHE:O	3:VA:108:ARG:CD	2.00	1.08
12:QA:201:CYC:OB	3:TA:75:PRO:HA	1.51	1.08
3:Z3:119:ALA:HB2	4:M3:263:PRO:HB2	1.34	1.08
3:B4:82:CYS:HA	12:B4:202:CYC:C2C	1.83	1.08
3:L3:119:ALA:CB	11:a9:813:PRO:HB3	1.77	1.08
4:M3:77:LEU:CD1	3:X3:115:GLU:OE2	2.00	1.08
3:B1:88:ILE:HG21	12:B1:202:CYC:C2B	1.82	1.08
4:M4:128:ALA:C	4:M4:142:PHE:CZ	2.30	1.08
4:M4:144:ARG:NE	4:M4:204:ILE:HG22	1.67	1.08
3:O4:119:ALA:HB3	5:Z4:72:GLU:HG3	1.36	1.08
1:B5:14:VAL:HG11	10:k5:554:ASN:O	1.49	1.08
8:G5:6:LYS:NZ	8:S5:19:SER:OG	1.87	1.08
12:G5:201:CYC:HMD1	12:G5:201:CYC:HC	1.18	1.08
8:Q5:12:ASP:CB	1:R5:94:TYR:CE2	2.36	1.08
8:Q5:17:TYR:CE2	1:R5:44:ILE:HG22	1.88	1.08
1:T5:110:ASN:CG	10:j5:692:LEU:HB3	1.79	1.08
1:T5:110:ASN:OD1	10:j5:692:LEU:O	1.71	1.08
8:U5:76:LYS:HG3	8:U5:77:MET:N	1.67	1.08
1:V5:114:GLU:CD	10:j5:496:GLU:HG3	1.77	1.08
8:W5:12:ASP:CB	1:X5:94:TYR:CE2	2.35	1.08
9:z5:6:LYS:N	9:z5:55:LYS:O	1.86	1.08
10:j5:965:GLN:N	1:t7:69:GLY:CA	1.95	1.08
10:j5:1015:TYR:O	10:j5:1017:ARG:HG2	0.90	1.08
10:k5:1076:GLU:C	10:k5:1078:SER:H	1.51	1.08
8:O7:49:ARG:NH1	1:r7:114:GLU:OE1	1.83	1.08
8:I7:161:GLN:HG2	1:X7:49:THR:CG2	1.83	1.08
8:i7:25:ARG:HH22	8:s7:6:LYS:CA	1.66	1.08
8:u7:97:VAL:CG2	1:v7:19:LEU:CD1	2.30	1.08
12:H8:202:CYC:HMD1	12:H8:202:CYC:HC	1.11	1.08
3:L9:48:ALA:CB	2:K9:18:PHE:CE2	2.37	1.08
11:a9:586:LEU:C	11:a9:590:PRO:HG3	1.76	1.08
2:AA:63:PHE:HB2	2:AA:66:LEU:HD11	1.20	1.07
3:DA:68:ARG:NH2	3:XA:68:ARG:HH12	1.52	1.07
12:R1:201:CYC:C4B	5:N1:54:LEU:CD1	2.32	1.07
3:U4:108:ARG:HA	4:M4:246:ALA:HB3	1.21	1.07
3:H4:80:ALA:CB	3:H4:84:ARG:HH12	1.66	1.07
4:M4:201:ASP:HB3	5:Z4:59:ARG:HD2	1.36	1.07
12:M4:301:CYC:CMB	3:Y4:89:ILE:HD11	1.84	1.07
12:O4:201:CYC:HMA3	5:Z4:53:LEU:HD13	1.14	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O5:76:LYS:HG3	8:O5:77:MET:HE2	1.31	1.07
8:G5:71:ASN:OD1	12:G5:201:CYC:CMD	2.02	1.07
8:Q5:11:ALA:HB1	1:R5:94:TYR:CE1	1.83	1.07
10:k5:971:VAL:CG1	1:n7:76:ARG:HH12	1.67	1.07
10:k5:1023:SER:HB3	12:k5:1202:CYC:HMA2	1.34	1.07
1:R7:118:SER:O	9:z7:61:GLN:CG	2.02	1.07
8:c7:16:ARG:C	1:d7:90:ARG:HD2	1.76	1.07
2:A8:63:PHE:HB2	2:A8:66:LEU:HD11	1.20	1.07
8:u7:18:LEU:HD13	1:v7:97:LEU:HD12	1.33	1.07
3:H8:84:ARG:HD3	11:a9:131:TYR:CD2	1.88	1.07
5:Z8:41:GLN:OE1	12:Z8:301:CYC:CBB	1.94	1.07
11:a9:585:GLU:C	11:a9:588:VAL:O	1.97	1.07
11:aA:331:TYR:HA	11:aA:333:GLN:NE2	1.67	1.07
3:HA:116:THR:HG21	12:HA:202:CYC:HMA3	1.30	1.07
4:MA:134:ASN:HB2	12:RA:201:CYC:HAA1	1.35	1.07
6:M2:127:SER:C	12:F2:201:CYC:HBA1	1.79	1.07
12:V3:202:CYC:HC	12:V3:202:CYC:HMD1	1.10	1.07
3:H4:14:LEU:HD22	11:aA:85:ALA:HA	1.36	1.07
4:M4:144:ARG:HE	4:M4:204:ILE:HG21	1.09	1.07
4:M4:210:ILE:O	5:Z4:28:HIS:NE2	1.87	1.07
1:N5:53:LYS:HZ2	8:O5:120:GLN:CG	1.67	1.07
3:Y4:109:CYS:SG	3:Y4:109:CYS:O	2.05	1.07
12:Y4:201:CYC:HMD1	12:Y4:201:CYC:HC	1.10	1.07
10:j5:930:LEU:HD13	1:J7:33:THR:HB	1.35	1.07
10:j5:1153:VAL:HG23	1:v7:125:ALA:HB2	1.30	1.07
10:k5:1054:SER:OG	1:l7:110:ASN:HB3	1.53	1.07
8:Q7:25:ARG:CD	8:C7:25:ARG:HH22	1.67	1.07
1:B7:140:LEU:HD12	11:a9:561:ALA:HA	1.32	1.07
8:U7:60:GLN:OE1	1:p7:117:ASN:HB3	1.26	1.07
3:B8:81:ALA:HB1	12:B8:202:CYC:HMD2	1.36	1.07
3:B8:108:ARG:HA	4:M8:61:ASN:CA	1.83	1.07
3:B8:119:ALA:CB	4:M8:52:LEU:HD11	1.84	1.07
8:u7:90:ARG:HB2	1:v7:18:TYR:CZ	1.90	1.07
3:F8:115:GLU:CG	4:M8:3:VAL:CG1	2.32	1.07
3:L8:68:ARG:HB3	11:a9:82:GLN:H	1.12	1.07
5:N9:54:LEU:CD2	3:T9:84:ARG:CZ	2.30	1.07
11:a9:710:THR:CG2	11:a9:807:GLN:CD	2.28	1.07
11:aA:91:THR:HG22	11:aA:96:THR:HA	1.31	1.07
4:M1:77:LEU:CD1	3:X1:115:GLU:OE2	2.00	1.07
4:M1:160:THR:HG22	4:M1:257:GLN:CB	1.84	1.07
1:A:158:SER:HB2	1:R5:11:ASN:ND2	1.57	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FA:145:PRO:CD	12:F9:302:CYC:CMC	2.31	1.07
3:LA:52:ILE:HD11	3:LA:87:GLU:HA	1.37	1.07
4:MA:158:PHE:HA	3:VA:108:ARG:HD3	1.34	1.07
4:MA:163:ASN:ND2	12:VA:201:CYC:CMA	2.18	1.07
5:N3:39:PRO:HB3	3:T3:113:LEU:HA	1.28	1.07
5:N3:54:LEU:CD1	12:R3:201:CYC:C4B	2.32	1.07
4:M4:214:GLY:C	5:Z4:27:ALA:O	1.98	1.07
3:O4:115:GLU:CB	5:Z4:70:ILE:O	2.03	1.07
5:Z4:25:THR:HG21	5:Z4:63:ASN:O	1.54	1.07
1:B5:53:LYS:HD3	8:C5:118:SER:O	1.54	1.07
8:G5:61:ILE:HG21	8:o7:68:PRO:HG2	1.31	1.07
8:S5:68:PRO:HB3	8:a5:59:PHE:HB2	1.09	1.07
8:W5:17:TYR:CZ	1:X5:44:ILE:CG2	2.37	1.07
10:j5:386:ILE:HG21	10:j5:395:SER:N	1.41	1.07
12:D1:201:CYC:HMD1	12:D1:201:CYC:HC	1.11	1.07
1:T7:106:GLU:CG	9:w7:58:THR:HG23	1.84	1.07
8:o7:94:TYR:OH	1:p7:17:LYS:O	1.73	1.07
4:M9:189:ASP:OD1	3:V9:84:ARG:NH1	1.85	1.07
4:M9:273:ILE:CD1	3:V9:75:PRO:CD	2.31	1.07
5:Z8:22:LEU:HD11	12:Z8:301:CYC:OB	0.91	1.07
11:aA:107:ARG:HG2	11:aA:108:PRO:HD2	1.25	1.07
11:aA:623:ASP:HB3	3:H1:78:ARG:NH2	1.65	1.07
11:aA:813:PRO:HB3	3:L1:119:ALA:CB	1.79	1.07
3:TA:21:GLU:HB3	2:R4:64:PRO:HG2	1.10	1.07
3:B4:119:ALA:HB1	4:M4:52:LEU:HD11	1.28	1.07
5:Z4:41:GLN:C	12:Z4:301:CYC:HMA3	1.79	1.07
1:X5:65:LEU:HD12	10:j5:706:PRO:CG	1.85	1.07
8:i7:25:ARG:NH1	8:s7:6:LYS:CG	2.18	1.07
8:i7:54:ALA:CB	8:i7:133:MET:HG3	1.83	1.07
8:c7:54:ALA:CB	8:c7:133:MET:HG3	1.83	1.07
8:o7:27:LYS:HD2	1:p7:35:ALA:HA	1.34	1.07
8:u7:18:LEU:HD22	1:v7:97:LEU:HD13	1.34	1.07
3:F8:91:ARG:NH2	11:a9:140:GLN:NE2	2.03	1.07
3:Q8:84:ARG:CG	5:Z8:31:TRP:NE1	2.17	1.07
12:Q8:201:CYC:HMD1	12:Q8:201:CYC:HC	1.11	1.07
4:M9:274:VAL:HG22	3:V9:77:ARG:CB	1.85	1.07
12:J9:202:CYC:HBA2	11:a9:511:LYS:HA	1.17	1.07
11:aA:275:THR:HA	11:aA:278:LEU:HD13	1.35	1.07
11:aA:585:GLU:C	11:aA:588:VAL:O	1.97	1.07
12:H3:201:CYC:HC	12:H3:201:CYC:HMD1	1.10	1.07
3:F4:1:MET:HA	4:M4:10:ARG:O	1.37	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:190:ARG:NH1	4:M4:202:SER:CB	2.16	1.07
4:M4:228:SER:CB	2:X4:16:GLY:CA	2.27	1.07
8:K5:112:VAL:HG23	1:J5:75:THR:CG2	1.85	1.07
1:f5:18:TYR:CZ	10:j5:165:ARG:CB	2.36	1.07
8:Q5:16:ARG:HB2	1:R5:90:ARG:NH1	1.69	1.07
10:j5:148:TYR:O	10:j5:152:ARG:HG3	1.54	1.07
10:j5:931:VAL:HG22	1:J7:29:ALA:O	1.52	1.07
10:j5:938:GLN:OE1	1:J7:28:LYS:CG	2.03	1.07
10:k5:841:VAL:HG13	10:k5:846:GLU:OE1	1.54	1.07
8:M7:49:ARG:HH12	3:H9:119:ALA:HA	0.94	1.07
12:i7:201:CYC:HMD1	12:i7:201:CYC:HC	1.18	1.07
8:k7:79:ALA:HB2	11:a9:53:VAL:HG21	1.29	1.07
8:c7:20:PRO:HG3	8:m7:155:TYR:HB2	1.21	1.07
8:c7:39:ILE:HD13	8:c7:148:GLU:CB	1.83	1.07
3:J8:108:ARG:NH2	11:a9:171:ARG:HB3	1.69	1.07
4:M8:160:THR:HG22	4:M8:257:GLN:CB	1.84	1.07
12:M8:302:CYC:H2C	3:S8:78:ARG:CD	1.81	1.07
3:O8:107:ASP:HB3	5:Z8:66:ARG:HB3	1.13	1.07
3:Q8:120:LEU:HD13	3:Q8:122:THR:OG1	1.53	1.07
4:M9:158:PHE:C	3:V9:108:ARG:CD	2.27	1.07
3:B9:107:ASP:HB3	11:a9:382:ASN:ND2	1.69	1.07
3:H9:113:LEU:HD11	12:H9:202:CYC:CMB	1.84	1.07
11:a9:643:LEU:HD21	11:a9:689:VAL:HG23	1.36	1.07
11:aA:403:THR:HG21	11:aA:536:THR:HG22	1.28	1.07
11:aA:798:SER:CB	11:aA:800:THR:HG21	1.78	1.07
4:M1:190:ARG:NH1	4:M1:202:SER:CB	2.16	1.07
4:MA:274:VAL:HG22	3:VA:77:ARG:CB	1.85	1.06
3:L2:77:ARG:HH12	6:M2:70:GLU:CG	1.65	1.06
12:B1:202:CYC:HBA1	11:aA:684:ASN:HB2	1.36	1.06
12:B1:202:CYC:CAA	11:aA:684:ASN:HB2	1.84	1.06
3:U4:120:LEU:HG	4:M4:254:LEU:HD21	1.34	1.06
3:F4:84:ARG:HD2	11:aA:139:ILE:HG22	1.18	1.06
3:F4:115:GLU:CG	4:M4:3:VAL:HG13	1.82	1.06
12:M4:301:CYC:HMC3	3:Y4:72:ASN:HB3	1.19	1.06
2:N4:111:ALA:HB3	5:Z4:34:LEU:CG	1.73	1.06
8:A5:71:ASN:OD1	12:A5:201:CYC:CMD	2.02	1.06
12:B5:201:CYC:HBA2	9:z5:26:THR:HG21	1.20	1.06
1:D5:75:THR:CG2	8:E5:112:VAL:HG23	1.85	1.06
1:H5:53:LYS:HD3	8:I5:118:SER:O	1.54	1.06
10:j5:741:GLN:O	1:J7:77:ARG:NH2	1.87	1.06
10:k5:1025:LEU:HD23	10:k5:1030:ILE:CG2	1.85	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:D6:202:CYC:HMD1	12:D6:202:CYC:HC	1.10	1.06
12:R7:201:CYC:O1A	9:z7:34:TYR:OH	1.72	1.06
8:u7:94:TYR:OH	1:v7:17:LYS:O	1.73	1.06
2:X8:13:ASP:OD1	4:M8:229:GLY:HA3	0.89	1.06
2:X8:67:THR:CA	3:T9:28:THR:HG21	1.86	1.06
3:H8:84:ARG:HG2	11:a9:131:TYR:CE2	1.90	1.06
12:H8:201:CYC:HBB2	11:a9:259:ALA:HB2	1.37	1.06
3:O8:119:ALA:HB1	5:Z8:72:GLU:HB2	1.35	1.06
4:M9:163:ASN:ND2	12:V9:201:CYC:CMA	2.18	1.06
11:aA:312:ASP:HA	11:aA:315:LEU:HB2	1.07	1.06
11:aA:707:PHE:HE2	3:L1:108:ARG:NH1	1.47	1.06
11:aA:710:THR:CG2	11:aA:807:GLN:HG3	1.82	1.06
11:aA:738:LEU:HD13	12:aA:902:CYC:HB	1.05	1.06
11:aA:746:TYR:HB3	2:K1:14:SER:HB2	1.07	1.06
4:MA:29:PRO:HD3	11:aA:378:GLU:OE2	1.54	1.06
4:MA:158:PHE:C	3:VA:108:ARG:CD	2.27	1.06
12:B4:202:CYC:O1A	4:M4:54:ALA:HB2	1.31	1.06
5:N3:33:GLY:O	3:T3:84:ARG:HD2	1.56	1.06
2:U3:141:GLN:O	2:Q9:76:ASP:N	1.88	1.06
2:I4:115:GLU:OE1	11:aA:133:LEU:HD23	1.55	1.06
12:L4:201:CYC:HMD1	12:L4:201:CYC:HC	1.10	1.06
4:M4:232:VAL:CB	12:M4:301:CYC:HBB2	1.86	1.06
3:Q4:7:LYS:NZ	3:Q4:101:ASP:OD1	1.89	1.06
8:Q5:17:TYR:CZ	1:R5:44:ILE:CG2	2.37	1.06
12:W5:201:CYC:HC	12:W5:201:CYC:HMD1	1.18	1.06
6:M6:53:LEU:CD2	8:c7:80:LEU:CD2	2.33	1.06
9:i5:22:GLU:C	9:i5:25:ASN:H	1.61	1.06
10:j5:53:ARG:O	10:j5:56:ILE:HG22	1.52	1.06
10:j5:820:HIS:CE1	10:j5:859:ILE:HD13	1.87	1.06
10:j5:965:GLN:CG	1:t7:69:GLY:O	2.03	1.06
10:j5:1051:GLU:OE2	11:aA:32:ARG:NH2	1.89	1.06
10:j5:1105:ILE:HD12	10:j5:1115:ARG:NH2	1.67	1.06
10:j5:1150:TYR:HE1	11:aA:38:VAL:HG22	1.08	1.06
10:k5:631:HIS:CD2	10:k5:664:MET:CE	2.38	1.06
10:k5:970:GLY:N	1:n7:77:ARG:HH21	1.52	1.06
10:k5:1051:GLU:OE2	11:a9:32:ARG:NH2	1.88	1.06
8:a7:25:ARG:HE	8:o7:25:ARG:CZ	1.67	1.06
1:l7:68:PRO:HB2	1:n7:14:VAL:O	1.56	1.06
8:o7:90:ARG:HB2	1:p7:18:TYR:CZ	1.89	1.06
3:H8:119:ALA:HB1	11:a9:266:ASN:HB2	1.30	1.06
11:aA:710:THR:CG2	11:aA:807:GLN:CD	2.28	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:H1:202:CYC:HMD1	12:H1:202:CYC:HC	1.10	1.06
2:IA:16:GLY:HA2	3:JA:91:ARG:NH1	1.69	1.06
3:LA:111:ASN:O	11:aA:532:ALA:CB	2.04	1.06
3:L2:75:PRO:HG2	3:L2:78:ARG:HB2	1.36	1.06
12:B4:202:CYC:CMA	4:M4:58:TYR:HB2	1.85	1.06
4:M3:160:THR:HG22	4:M3:257:GLN:CB	1.84	1.06
3:U4:111:ASN:OD1	4:M4:77:LEU:CD1	2.03	1.06
1:B5:143:PRO:HG3	8:W7:41:GLN:NE2	1.70	1.06
1:f5:114:GLU:HB3	10:j5:491:THR:HG23	1.13	1.06
6:M6:117:MET:HE2	3:H6:77:ARG:NH1	1.65	1.06
10:j5:386:ILE:HD13	10:j5:395:SER:OG	1.38	1.06
12:j5:1202:CYC:HMA1	12:j5:1202:CYC:HB	1.06	1.06
3:D1:68:ARG:NH1	3:X1:68:ARG:HH22	1.53	1.06
1:H7:140:LEU:HG	11:aA:561:ALA:HB2	1.36	1.06
8:i7:25:ARG:HH12	8:s7:6:LYS:C	1.62	1.06
9:x7:4:TYR:HB2	9:x7:58:THR:OG1	1.54	1.06
4:M8:225:LYS:HE3	3:Y8:81:ALA:HB2	1.36	1.06
2:N8:112:GLY:H	5:Z8:34:LEU:HB2	1.17	1.06
3:O8:104:VAL:CG2	5:Z8:61:LYS:HE3	1.83	1.06
3:O8:119:ALA:HB1	5:Z8:72:GLU:CB	1.86	1.06
4:M9:37:GLU:OE1	4:M9:40:GLN:NE2	1.86	1.06
4:M9:163:ASN:ND2	12:V9:201:CYC:HMA1	1.71	1.06
5:Z8:34:LEU:O	5:Z8:34:LEU:CD2	2.04	1.06
3:J9:70:GLY:CA	11:a9:357:THR:O	2.04	1.06
1:Z:76:ARG:NH1	10:j5:262:TYR:CE2	2.22	1.06
12:JA:202:CYC:CBA	11:aA:511:LYS:HD3	1.85	1.06
4:MA:274:VAL:HG22	3:VA:77:ARG:HB2	1.11	1.06
5:N3:34:LEU:O	3:T3:84:ARG:NH1	1.89	1.06
3:L4:68:ARG:HB3	11:aA:82:GLN:H	1.19	1.06
1:L5:75:THR:HG22	8:G5:115:MET:CE	1.85	1.06
1:F5:119:LEU:HD21	10:k5:546:PHE:HD2	1.19	1.06
8:c5:9:VAL:HG11	10:j5:344:ARG:NH2	1.70	1.06
8:Q5:12:ASP:HA	1:R5:94:TYR:HE2	1.20	1.06
1:R5:106:GLU:HG2	10:k5:504:ASP:O	1.56	1.06
10:j5:631:HIS:CD2	10:j5:664:MET:CE	2.38	1.06
10:j5:820:HIS:ND1	10:j5:859:ILE:HD12	1.68	1.06
10:j5:841:VAL:HG13	10:j5:846:GLU:OE1	1.54	1.06
10:k5:56:ILE:HD13	10:k5:219:ASP:CB	1.86	1.06
10:k5:1017:ARG:HB3	10:k5:1017:ARG:HH21	1.20	1.06
10:k5:1052:PRO:CB	1:l7:106:GLU:OE2	2.03	1.06
12:B8:202:CYC:CMA	4:M8:58:TYR:HB2	1.85	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F8:84:ARG:HD3	11:a9:139:ILE:HG22	1.13	1.06
3:H8:14:LEU:HD22	11:a9:85:ALA:HA	1.36	1.06
3:O8:111:ASN:HB3	5:Z8:67:ILE:HB	1.36	1.06
4:M9:273:ILE:HD11	3:V9:75:PRO:HD3	1.33	1.06
11:a9:93:LEU:CD2	11:a9:252:ARG:NH1	2.19	1.06
11:a9:287:ALA:C	11:a9:289:THR:H	1.53	1.06
11:aA:738:LEU:HD22	12:aA:902:CYC:C4B	1.86	1.06
4:MA:163:ASN:ND2	12:VA:201:CYC:HMA1	1.71	1.06
12:J3:202:CYC:HAA1	11:a9:798:SER:CB	1.84	1.06
12:D3:201:CYC:HC	12:D3:201:CYC:HMD1	1.11	1.06
3:F4:115:GLU:HG2	4:M4:3:VAL:HG11	1.13	1.06
4:M4:214:GLY:C	5:Z4:27:ALA:C	2.24	1.06
1:P5:114:GLU:CD	10:k5:496:GLU:HG3	1.80	1.06
8:U5:75:GLU:OE2	6:M6:32:MET:HE3	1.53	1.06
1:X5:50:THR:CG2	8:a5:49:ARG:CZ	2.32	1.06
10:k5:386:ILE:HD13	10:k5:395:SER:OG	1.38	1.06
10:k5:822:ARG:HB2	10:k5:822:ARG:HH11	1.20	1.06
10:k5:1015:TYR:O	10:k5:1017:ARG:HG2	0.90	1.06
1:B7:140:LEU:HD11	11:a9:561:ALA:HB1	1.06	1.06
8:c7:16:ARG:O	1:d7:90:ARG:HD2	1.55	1.06
3:U8:115:GLU:OE1	4:M8:74:LEU:HD13	1.54	1.06
4:M8:214:GLY:HA2	5:Z8:28:HIS:CG	1.91	1.06
2:P8:18:PHE:CA	3:Q8:91:ARG:HH21	1.64	1.06
12:L9:202:CYC:O2A	11:a9:404:TYR:HB2	1.55	1.06
4:M9:263:PRO:CB	3:V9:119:ALA:CB	2.33	1.06
3:D9:68:ARG:NH2	3:X9:68:ARG:HH12	1.52	1.06
11:a9:75:ALA:CA	11:a9:81:ASP:CG	2.29	1.06
11:aA:98:ILE:HD12	11:aA:101:ASP:HB2	1.37	1.06
11:aA:775:LYS:HA	12:H1:201:CYC:HBA2	1.36	1.06
3:FA:145:PRO:HD3	12:F9:302:CYC:HMC3	1.38	1.05
2:IA:31:PHE:CE2	3:JA:31:VAL:HA	1.62	1.05
12:XA:202:CYC:HMD1	12:XA:202:CYC:HC	1.10	1.05
3:B1:88:ILE:HG21	12:B1:202:CYC:HMB1	1.30	1.05
4:M4:217:VAL:HG21	5:Z4:30:PRO:CA	1.86	1.05
2:N4:112:GLY:HA2	5:Z4:34:LEU:N	1.71	1.05
8:M5:66:VAL:HG11	8:K7:68:PRO:CG	1.86	1.05
3:Y4:87:GLU:HG2	3:Y4:91:ARG:HH11	1.20	1.05
5:Z4:34:LEU:O	5:Z4:34:LEU:CD2	2.04	1.05
1:F5:119:LEU:HD21	10:k5:546:PHE:CD2	1.91	1.05
1:f5:161:SER:C	1:V5:101:PRO:HG3	1.81	1.05
1:R5:65:LEU:HD12	10:k5:706:PRO:HG3	1.13	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b5:18:TYR:CE2	10:k5:165:ARG:CA	2.39	1.05
10:j5:56:ILE:HD13	10:j5:219:ASP:HB3	1.09	1.05
10:j5:822:ARG:HH11	10:j5:822:ARG:HB2	1.20	1.05
10:k5:136:VAL:CG1	10:k5:137:PRO:HD2	1.84	1.05
10:k5:1074:GLN:CD	1:l7:119:LEU:HD21	1.80	1.05
10:k5:1152:TYR:HD2	8:G7:68:PRO:CG	1.46	1.05
3:D1:68:ARG:HH22	3:X1:68:ARG:CZ	1.70	1.05
8:u7:17:TYR:CD2	1:v7:93:THR:HG21	1.90	1.05
8:u7:37:LEU:HD23	1:v7:24:LEU:HD22	1.33	1.05
4:M8:197:ASP:HB3	5:Z8:52:ARG:HG3	1.14	1.05
3:O8:111:ASN:ND2	5:Z8:68:LEU:HD23	1.70	1.05
3:Q8:78:ARG:NH1	12:Z8:301:CYC:O1D	1.87	1.05
4:M9:274:VAL:CG1	2:W9:111:ALA:HB1	1.86	1.05
5:N9:70:ILE:HG21	3:T9:116:THR:HA	1.26	1.05
3:B9:107:ASP:HB3	11:a9:382:ASN:HD22	0.92	1.05
3:J9:78:ARG:HH12	11:a9:359:ASP:HA	1.16	1.05
11:a9:312:ASP:O	11:a9:315:LEU:N	1.82	1.05
11:a9:403:THR:HG22	11:a9:536:THR:HG23	1.07	1.05
3:LA:52:ILE:HD11	3:LA:87:GLU:CA	1.85	1.05
3:H2:77:ARG:NH1	6:M2:117:MET:HE2	1.65	1.05
3:L4:68:ARG:HB3	11:aA:82:GLN:N	1.69	1.05
4:M4:113:ILE:HD11	4:M4:143:VAL:HG22	1.36	1.05
8:O5:76:LYS:HD2	8:O5:77:MET:HE3	1.38	1.05
3:Y4:103:SER:HA	3:Y4:107:ASP:HB3	1.36	1.05
12:A5:201:CYC:HMD1	12:A5:201:CYC:HC	1.18	1.05
8:G5:6:LYS:HZ1	8:S5:19:SER:CB	1.68	1.05
8:G5:6:LYS:HZ3	8:S5:19:SER:HB3	1.21	1.05
8:U5:76:LYS:HD2	8:U5:77:MET:HE3	1.38	1.05
1:b5:5:ILE:HD12	10:k5:46:PHE:CE1	1.91	1.05
10:j5:156:SER:OG	12:j5:1201:CYC:C3C	2.03	1.05
10:j5:175:ASP:CB	10:j5:176:PRO:CD	1.97	1.05
10:k5:138:PRO:HB3	10:k5:201:VAL:HG11	1.31	1.05
10:k5:386:ILE:HG23	10:k5:387:VAL:N	1.64	1.05
8:M7:49:ARG:NH1	3:H9:119:ALA:HA	1.70	1.05
8:a7:52:LYS:HD2	11:a9:321:ALA:HB1	1.13	1.05
8:c7:11:ALA:HB3	1:d7:94:TYR:CE1	1.90	1.05
2:X8:69:PRO:CG	2:S9:38:MET:C	2.29	1.05
3:H8:111:ASN:CG	11:a9:291:TYR:HH	1.51	1.05
3:Q8:72:ASN:HD21	12:Z8:301:CYC:HBD2	1.15	1.05
3:L9:111:ASN:ND2	11:a9:531:ASP:OD1	1.89	1.05
5:Z8:22:LEU:HD11	12:Z8:301:CYC:C4B	1.85	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z8:29:HIS:HD2	5:Z8:36:THR:HG23	1.15	1.05
3:H9:120:LEU:HD11	12:H9:202:CYC:C2A	1.82	1.05
3:J9:119:ALA:O	11:a9:365:LYS:HE3	1.35	1.05
12:J9:202:CYC:CBA	11:a9:511:LYS:HD3	1.85	1.05
11:a9:98:ILE:HD12	11:a9:101:ASP:HB2	1.37	1.05
11:a9:275:THR:HA	11:a9:278:LEU:HD13	1.35	1.05
11:a9:280:ASP:CB	11:a9:281:PRO:CD	2.03	1.05
11:aA:623:ASP:CB	3:H1:78:ARG:HH22	1.65	1.05
5:N1:34:LEU:O	3:T1:84:ARG:NH1	1.89	1.05
4:MA:263:PRO:CB	3:VA:119:ALA:CB	2.33	1.05
3:J3:107:ASP:OD1	11:a9:632:ILE:HG12	1.54	1.05
2:K3:14:SER:HB2	11:a9:746:TYR:HB3	1.08	1.05
3:B4:120:LEU:HD12	4:M4:53:LEU:HB2	1.38	1.05
3:B1:88:ILE:CG2	12:B1:202:CYC:HMB1	1.78	1.05
3:L4:68:ARG:NH1	11:aA:75:ALA:HB3	1.71	1.05
3:L4:68:ARG:HB2	11:aA:82:GLN:HB2	1.36	1.05
3:L4:68:ARG:HB3	11:aA:81:ASP:CA	1.86	1.05
4:M4:273:ILE:HD12	2:X4:108:TYR:CZ	1.91	1.05
8:A5:115:MET:CE	1:F5:75:THR:HG22	1.85	1.05
1:d5:127:VAL:CG1	10:j5:698:GLY:HA3	1.85	1.05
1:f5:114:GLU:CB	10:j5:491:THR:HG23	1.85	1.05
8:Q5:17:TYR:HE2	1:R5:93:THR:OG1	1.21	1.05
8:W5:11:ALA:CB	1:X5:94:TYR:HE1	1.48	1.05
10:j5:230:VAL:O	10:j5:234:LEU:HG	1.57	1.05
10:j5:1017:ARG:HB3	10:j5:1017:ARG:HH21	1.20	1.05
10:j5:1023:SER:HB3	12:f7:201:CYC:HMA2	1.36	1.05
10:k5:362:LYS:HE2	10:k5:363:HIS:HE2	1.19	1.05
10:k5:386:ILE:CG2	10:k5:395:SER:O	2.05	1.05
10:k5:742:GLY:C	12:D7:201:CYC:O2D	1.99	1.05
8:S7:49:ARG:CD	11:aA:550:PHE:CE1	2.40	1.05
8:U7:49:ARG:HH12	1:l7:114:GLU:CD	1.64	1.05
8:U7:52:LYS:HE3	11:a9:29:ARG:NH1	1.71	1.05
8:q7:66:VAL:HG11	11:aA:61:TYR:HE1	1.12	1.05
8:u7:27:LYS:HD2	1:v7:35:ALA:HA	1.34	1.05
9:y7:4:TYR:HB2	9:y7:58:THR:OG1	1.54	1.05
2:X8:16:GLY:HA2	4:M8:228:SER:CB	1.85	1.05
4:M8:56:MET:CE	4:M8:66:VAL:HG21	1.84	1.05
3:Q8:78:ARG:HH11	12:Z8:301:CYC:CAD	1.69	1.05
3:L9:51:ILE:HG21	3:L9:90:LEU:CD1	1.85	1.05
3:L9:52:ILE:HD11	3:L9:87:GLU:HA	1.36	1.05
3:Y8:89:ILE:CG2	3:Y8:92:TYR:CZ	2.37	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J9:88:ILE:CD1	11:a9:512:TYR:CE1	2.39	1.05
11:aA:742:GLN:CB	3:L1:88:ILE:HD11	1.85	1.05
11:aA:798:SER:HB3	11:aA:800:THR:HG21	1.24	1.05
5:N1:33:GLY:O	3:T1:84:ARG:HD2	1.56	1.05
3:BA:107:ASP:HB3	11:aA:382:ASN:ND2	1.71	1.05
3:FA:150:ARG:HA	3:F9:150:ARG:CD	1.85	1.05
3:LA:51:ILE:HG21	3:LA:90:LEU:CD1	1.85	1.05
4:MA:274:VAL:CG1	2:WA:111:ALA:HB1	1.86	1.05
2:K3:13:ASP:OD2	11:a9:707:PHE:HZ	1.33	1.05
4:M3:134:ASN:HB2	12:P3:201:CYC:HAA1	1.05	1.05
5:N3:62:ARG:HH21	2:Q3:14:SER:HB3	0.89	1.05
3:S4:82:CYS:CB	12:S4:202:CYC:HAC2	1.85	1.05
3:H4:111:ASN:ND2	11:aA:291:TYR:CZ	2.25	1.05
4:M4:29:PRO:HB3	11:aA:225:VAL:O	0.87	1.05
4:M4:100:SER:N	3:Q4:1:MET:HE1	1.65	1.05
3:Y4:124:THR:HB	3:Y4:172:ALA:HA	1.36	1.05
8:I5:37:LEU:HD21	1:J5:27:LEU:HD13	1.37	1.05
1:Z5:127:VAL:CG1	10:k5:698:GLY:CA	2.30	1.05
1:T7:106:GLU:HG3	9:w7:58:THR:HG23	1.35	1.05
8:a7:25:ARG:HE	8:o7:25:ARG:NE	1.54	1.05
8:a7:48:GLU:CA	11:a9:318:TRP:HH2	1.69	1.05
3:B8:120:LEU:HD11	4:M8:53:LEU:HB2	1.37	1.05
3:U8:108:ARG:HA	4:M8:246:ALA:HB3	1.25	1.05
3:U8:114:LYS:HZ1	4:M8:13:LYS:CE	1.57	1.05
2:I8:14:SER:HA	11:a9:170:PHE:CZ	1.92	1.05
3:B9:107:ASP:CB	11:a9:382:ASN:ND2	2.17	1.05
3:F9:68:ARG:NH1	3:Z9:68:ARG:NH1	1.66	1.05
3:H9:120:LEU:HD11	12:H9:202:CYC:HAA1	1.09	1.05
11:a9:75:ALA:HA	11:a9:81:ASP:OD2	1.57	1.05
11:aA:75:ALA:CA	11:aA:81:ASP:CG	2.29	1.05
3:L2:65:ASP:OD2	1:h7:64:ASP:OD2	1.74	1.05
12:F3:201:CYC:O2A	4:M3:35:THR:HA	1.57	1.05
12:L3:202:CYC:HBA2	11:a9:735:VAL:N	1.70	1.05
12:L3:202:CYC:C4B	11:a9:738:LEU:HD22	1.85	1.05
4:M3:81:ASP:H	3:X3:111:ASN:ND2	1.54	1.05
2:E4:15:GLN:HG2	11:aA:163:ASP:HB2	1.39	1.05
3:F4:106:GLU:O	4:M4:6:THR:O	1.72	1.05
3:F4:107:ASP:HA	4:M4:8:SER:N	1.72	1.05
4:M4:142:PHE:O	4:M4:146:LEU:HG	1.57	1.05
4:M4:160:THR:HG22	4:M4:257:GLN:CB	1.84	1.05
1:L5:119:LEU:HD21	10:j5:546:PHE:CD2	1.91	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P5:114:GLU:CB	10:k5:496:GLU:HG3	1.86	1.05
1:b5:5:ILE:HD12	10:k5:46:PHE:CZ	1.89	1.05
10:j5:743:VAL:CG1	12:J7:201:CYC:O2D	2.05	1.05
10:j5:1025:LEU:HD23	10:j5:1030:ILE:CG2	1.85	1.05
10:j5:1153:VAL:HG23	1:v7:125:ALA:CB	1.77	1.05
10:k5:1055:SER:CB	12:k5:1203:CYC:HBB2	1.86	1.05
1:H7:140:LEU:HD12	11:aA:561:ALA:HA	1.39	1.05
8:g7:48:GLU:CA	11:aA:318:TRP:HH2	1.69	1.05
8:i7:20:PRO:CG	8:s7:155:TYR:CG	2.39	1.05
8:o7:17:TYR:CD2	1:p7:93:THR:HG21	1.90	1.05
3:L8:82:CYS:SG	12:a9:901:CYC:NC	2.29	1.05
4:M8:205:ASP:OD2	5:Z8:59:ARG:CG	2.03	1.05
12:F1:201:CYC:O2A	4:M1:35:THR:HA	1.57	1.05
2:I9:16:GLY:HA2	3:J9:91:ARG:NH1	1.69	1.05
11:aA:99:ALA:HB1	11:aA:100:PRO:HD3	1.34	1.05
11:aA:426:ARG:HH21	11:aA:496:ARG:HD3	1.15	1.05
4:M1:160:THR:HG22	4:M1:257:GLN:HB2	1.27	1.05
3:FA:150:ARG:CA	3:F9:150:ARG:HG3	1.87	1.04
3:TA:28:THR:HG21	2:X4:67:THR:CA	1.86	1.04
2:K3:13:ASP:OD1	11:a9:741:TYR:OH	1.74	1.04
3:D3:68:ARG:HH22	3:X3:68:ARG:CZ	1.70	1.04
12:B4:202:CYC:HBB3	4:M4:61:ASN:ND2	1.72	1.04
3:F4:91:ARG:NH2	11:aA:140:GLN:NE2	2.05	1.04
2:I4:14:SER:HA	11:aA:170:PHE:CZ	1.92	1.04
4:M4:104:ALA:HB3	2:P4:14:SER:CA	1.85	1.04
3:Q4:104:VAL:CG2	3:Q4:105:LEU:HD12	1.87	1.04
1:Z5:83:ARG:NH1	10:k5:379:PHE:CE2	2.24	1.04
10:j5:275:THR:CG2	10:j5:286:VAL:HG13	1.87	1.04
10:k5:66:MET:HA	10:k5:66:MET:HE3	1.39	1.04
10:k5:275:THR:CG2	10:k5:286:VAL:HG13	1.86	1.04
10:k5:974:LEU:CD2	1:p7:1:MET:H3	1.69	1.04
10:k5:1081:VAL:HG11	12:k5:1203:CYC:HMA2	1.33	1.04
8:o7:27:LYS:HD2	1:p7:35:ALA:CA	1.87	1.04
8:o7:37:LEU:HD23	1:p7:24:LEU:HD22	1.33	1.04
8:q7:49:ARG:NH2	3:H1:62:GLU:OE1	1.87	1.04
2:X8:16:GLY:HA3	4:M8:228:SER:HB2	1.35	1.04
3:L9:111:ASN:O	11:a9:532:ALA:CB	2.03	1.04
4:M9:274:VAL:CA	3:V9:77:ARG:CG	1.84	1.04
5:N9:1:MET:HG2	3:R9:119:ALA:HB3	1.33	1.04
5:N9:22:LEU:HD21	5:N9:26:LEU:HD21	1.38	1.04
11:a9:50:LEU:O	11:a9:53:VAL:CB	2.06	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:239:TYR:CZ	12:a9:901:CYC:NB	2.21	1.04
11:a9:312:ASP:HA	11:a9:315:LEU:HB2	1.07	1.04
11:aA:287:ALA:C	11:aA:289:THR:H	1.53	1.04
3:FA:151:GLY:H	3:F9:150:ARG:NE	1.53	1.04
3:LA:111:ASN:ND2	11:aA:531:ASP:OD1	1.91	1.04
5:NA:53:LEU:HB3	12:TA:301:CYC:HBA2	1.04	1.04
4:M4:227:GLN:O	3:Y4:88:ILE:CG2	2.04	1.04
2:N4:111:ALA:HB1	5:Z4:34:LEU:CG	1.73	1.04
8:U5:83:ARG:HG2	6:M6:31:ASP:CG	1.81	1.04
1:V5:83:ARG:NH1	10:j5:649:PHE:CZ	2.25	1.04
1:Z5:64:ASP:HB2	10:k5:705:THR:HG23	1.06	1.04
10:j5:136:VAL:HG12	10:j5:137:PRO:HD3	1.08	1.04
10:j5:362:LYS:HE2	10:j5:363:HIS:HE2	1.19	1.04
10:k5:742:GLY:HA2	12:D7:201:CYC:CGD	1.87	1.04
10:k5:931:VAL:CG2	1:D7:30:TYR:HA	1.87	1.04
8:c7:15:ALA:C	1:d7:90:ARG:CZ	2.29	1.04
12:J8:201:CYC:CMA	11:a9:176:ASN:HD21	1.71	1.04
3:L9:52:ILE:HD11	3:L9:87:GLU:CA	1.85	1.04
4:M9:158:PHE:HA	3:V9:108:ARG:HD3	1.34	1.04
11:a9:710:THR:CG2	11:a9:807:GLN:HG3	1.82	1.04
11:aA:93:LEU:CD2	11:aA:252:ARG:NH1	2.19	1.04
4:M1:81:ASP:H	3:X1:111:ASN:ND2	1.55	1.04
4:M1:258:LYS:NZ	3:Z1:111:ASN:ND2	2.05	1.04
3:HA:120:LEU:HD11	12:HA:202:CYC:C2A	1.86	1.04
5:NA:1:MET:SD	3:RA:119:ALA:CB	2.44	1.04
12:P1:201:CYC:HAA1	4:M1:134:ASN:HB2	1.05	1.04
2:U3:45:THR:O	2:Q9:69:PRO:CG	1.95	1.04
4:M4:29:PRO:CG	11:aA:226:PHE:HA	1.87	1.04
4:M4:100:SER:H	3:Q4:1:MET:HE1	1.15	1.04
8:O5:102:THR:HB	8:O5:103:PRO:CD	1.88	1.04
8:U5:75:GLU:CD	6:M6:32:MET:CE	2.31	1.04
10:j5:56:ILE:HD13	10:j5:219:ASP:CB	1.86	1.04
10:k5:136:VAL:HG12	10:k5:137:PRO:HD3	1.08	1.04
10:k5:1150:TYR:HE2	1:p7:69:GLY:C	1.64	1.04
8:O7:102:THR:HB	8:O7:103:PRO:CD	1.88	1.04
1:P7:14:VAL:O	1:N7:68:PRO:HB2	1.56	1.04
1:B7:140:LEU:CD1	11:a9:561:ALA:CB	2.35	1.04
12:d7:201:CYC:NB	9:x7:38:PHE:CE1	2.24	1.04
2:X8:60:TYR:CD2	3:T9:32:LYS:NZ	2.25	1.04
3:F8:107:ASP:HB2	4:M8:8:SER:O	1.30	1.04
3:L8:82:CYS:CB	12:a9:901:CYC:HMD3	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:160:THR:HG22	4:M9:257:GLN:CB	1.84	1.04
5:Z8:41:GLN:O	12:Z8:301:CYC:CMA	2.04	1.04
3:J9:111:ASN:N	11:a9:518:ALA:HB3	1.73	1.04
1:A:161:SER:OG	1:R5:14:VAL:CG2	1.91	1.04
3:FA:68:ARG:NH1	3:ZA:68:ARG:CZ	2.21	1.04
3:HA:126:SER:HB2	12:HA:202:CYC:HMC2	1.34	1.04
12:JA:202:CYC:HBA1	11:aA:511:LYS:HA	1.06	1.04
3:J3:84:ARG:C	11:a9:668:TYR:CZ	2.31	1.04
12:J3:202:CYC:CBA	11:a9:667:THR:CG2	1.99	1.04
3:J4:108:ARG:NH2	11:aA:171:ARG:HB3	1.71	1.04
4:M4:104:ALA:CB	2:P4:14:SER:HA	1.81	1.04
2:N4:14:SER:HB3	5:Z4:62:ARG:HD2	1.35	1.04
5:Z4:41:GLN:O	12:Z4:301:CYC:CMA	2.05	1.04
10:j5:951:MET:CE	10:j5:955:LEU:HG	1.88	1.04
10:k5:283:ARG:HB2	10:k5:284:PRO:HD2	1.39	1.04
10:k5:729:ILE:HD12	1:D7:64:ASP:OD1	1.56	1.04
10:k5:820:HIS:CE1	10:k5:859:ILE:HD13	1.87	1.04
8:I7:161:GLN:CD	1:X7:49:THR:HG22	1.81	1.04
8:i7:20:PRO:CD	8:s7:155:TYR:CE1	2.41	1.04
8:a7:102:THR:HB	8:a7:103:PRO:CD	1.88	1.04
3:B8:68:ARG:HH22	3:U8:68:ARG:CZ	1.70	1.04
3:B8:116:THR:HA	4:M8:56:MET:HG3	1.38	1.04
8:u7:27:LYS:HD2	1:v7:35:ALA:CA	1.87	1.04
3:H8:84:ARG:CB	11:a9:131:TYR:CZ	2.40	1.04
3:H8:111:ASN:ND2	11:a9:291:TYR:CZ	2.26	1.04
12:M8:301:CYC:C3C	3:Y8:127:VAL:HG22	1.88	1.04
3:Q8:110:LEU:HD22	3:Q8:170:SER:HB3	1.40	1.04
3:Q8:120:LEU:HD11	3:Q8:122:THR:HB	1.12	1.04
5:N9:1:MET:SD	3:R9:119:ALA:CB	2.44	1.04
3:J9:88:ILE:HD13	11:a9:512:TYR:CE2	1.91	1.04
3:F2:78:ARG:HG2	12:F2:201:CYC:CGD	1.86	1.04
3:DA:115:GLU:OE2	4:MA:78:GLY:N	1.90	1.04
12:LA:202:CYC:O2A	11:aA:404:TYR:HB2	1.55	1.04
2:SA:38:MET:C	2:X4:69:PRO:CG	2.29	1.04
3:B4:116:THR:HB	4:M4:56:MET:HG2	1.07	1.04
5:N3:31:TRP:CD1	2:S3:16:GLY:HA2	1.93	1.04
8:M5:19:SER:HB3	8:A5:6:LYS:HZ1	1.16	1.04
8:C5:102:THR:HB	8:C5:103:PRO:CD	1.88	1.04
1:Z5:28:LYS:CD	1:t7:143:PRO:CB	2.34	1.04
10:j5:386:ILE:HG21	10:j5:395:SER:H	0.91	1.04
8:I7:102:THR:HB	8:I7:103:PRO:CD	1.88	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h7:75:THR:HG22	8:i7:115:MET:HE2	1.37	1.04
8:i7:86:ASP:OD1	1:j7:18:TYR:OH	1.74	1.04
8:c7:16:ARG:C	1:d7:90:ARG:HD3	1.78	1.04
8:c7:92:VAL:HG23	8:c7:156:LEU:CD1	1.88	1.04
3:O8:107:ASP:HB3	5:Z8:66:ARG:CB	1.88	1.04
3:O8:119:ALA:O	5:Z8:72:GLU:OE2	1.74	1.04
4:M9:53:LEU:HD12	12:F9:301:CYC:OB	1.56	1.04
4:M9:274:VAL:OXT	3:V9:77:ARG:NE	1.90	1.04
5:N9:70:ILE:HG22	3:T9:119:ALA:CB	1.87	1.04
3:D9:68:ARG:NH2	3:X9:68:ARG:NH1	2.06	1.04
11:a9:448:ASN:OD1	11:a9:474:PHE:CE1	2.11	1.04
11:a9:602:PRO:O	11:a9:604:ALA:N	1.91	1.04
11:aA:50:LEU:O	11:aA:53:VAL:CB	2.06	1.04
11:aA:403:THR:HG22	11:aA:536:THR:HG23	1.07	1.04
11:aA:741:TYR:OH	2:K1:13:ASP:OD1	1.74	1.04
3:BA:107:ASP:CB	11:aA:382:ASN:ND2	2.19	1.03
5:NA:22:LEU:HD21	5:NA:26:LEU:HD21	1.38	1.03
3:D3:68:ARG:NH1	3:X3:68:ARG:HH22	1.53	1.03
3:B4:68:ARG:HH22	3:U4:68:ARG:CZ	1.70	1.03
3:F4:115:GLU:HB3	4:M4:3:VAL:HG13	1.35	1.03
4:M4:211:GLN:O	5:Z4:28:HIS:HE1	1.40	1.03
8:O5:76:LYS:HG3	8:O5:77:MET:N	1.67	1.03
8:C5:37:LEU:HD21	1:D5:27:LEU:HD13	1.37	1.03
8:W5:16:ARG:HA	1:X5:90:ARG:HD3	1.23	1.03
10:j5:386:ILE:CG2	10:j5:395:SER:O	2.05	1.03
10:j5:990:ARG:HE	10:j5:1026:LYS:NZ	1.55	1.03
10:j5:1023:SER:OG	12:f7:201:CYC:O2A	1.74	1.03
10:j5:1056:PRO:HD2	10:j5:1057:LYS:H	1.14	1.03
10:j5:1153:VAL:HG22	1:v7:65:LEU:HD11	1.40	1.03
10:k5:230:VAL:O	10:k5:234:LEU:HG	1.57	1.03
8:g7:102:THR:HB	8:g7:103:PRO:CD	1.88	1.03
8:c7:16:ARG:CA	1:d7:90:ARG:HD3	1.83	1.03
12:B8:202:CYC:HBB3	4:M8:61:ASN:ND2	1.72	1.03
3:H9:84:ARG:HA	11:a9:478:HIS:NE2	1.71	1.03
11:aA:75:ALA:HA	11:aA:81:ASP:OD2	1.56	1.03
11:aA:776:TYR:H	12:H1:201:CYC:HBA1	0.89	1.03
12:FA:301:CYC:OB	4:MA:53:LEU:HD12	1.56	1.03
3:HA:117:TYR:CE1	12:HA:202:CYC:HHB	1.92	1.03
3:JA:88:ILE:HD13	11:aA:512:TYR:CE2	1.93	1.03
5:NA:70:ILE:HG22	3:TA:119:ALA:CB	1.87	1.03
2:SA:42:ARG:CD	2:X4:69:PRO:O	2.07	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M2:26:PHE:HE2	8:O5:90:ARG:NH2	1.56	1.03
3:B4:119:ALA:HB2	4:M4:69:ILE:HG21	1.03	1.03
8:K5:112:VAL:CG2	1:J5:75:THR:HG21	1.87	1.03
8:G5:100:ASP:CG	8:S5:20:PRO:HB2	1.83	1.03
1:H5:87:TYR:HE1	9:i5:19:THR:O	1.39	1.03
12:Q5:201:CYC:HMD1	12:Q5:201:CYC:HC	1.18	1.03
10:k5:190:LEU:CB	10:k5:194:CYS:SG	2.46	1.03
10:k5:974:LEU:CG	1:p7:1:MET:N	2.21	1.03
10:k5:990:ARG:HE	10:k5:1026:LYS:NZ	1.55	1.03
8:o7:18:LEU:HD22	1:p7:97:LEU:HD13	1.34	1.03
8:s7:102:THR:HB	8:s7:103:PRO:CD	1.88	1.03
3:Q8:77:ARG:HA	5:Z8:34:LEU:HB3	1.04	1.03
4:M9:78:GLY:N	3:D9:115:GLU:OE2	1.90	1.03
4:M9:273:ILE:HD13	3:V9:75:PRO:CG	1.88	1.03
4:M9:274:VAL:CB	3:V9:77:ARG:HG2	1.89	1.03
3:BA:107:ASP:HB3	11:aA:382:ASN:HD22	0.93	1.03
4:MA:273:ILE:HD13	3:VA:75:PRO:CG	1.88	1.03
3:TA:32:LYS:NZ	2:X4:60:TYR:CD2	2.25	1.03
3:B4:82:CYS:C	12:B4:202:CYC:HAC2	1.83	1.03
4:M4:104:ALA:HB1	2:P4:14:SER:N	1.52	1.03
4:M4:134:ASN:OD1	5:Z4:1:MET:HE1	1.58	1.03
4:M4:235:PHE:HB2	12:M4:301:CYC:CAA	1.70	1.03
8:I5:102:THR:HB	8:I5:103:PRO:CD	1.88	1.03
8:Y5:9:VAL:CG1	10:k5:344:ARG:CZ	2.36	1.03
1:b5:5:ILE:CD1	10:k5:46:PHE:CE1	2.42	1.03
10:j5:1025:LEU:CD2	10:j5:1035:PHE:CB	2.14	1.03
10:j5:1153:VAL:HG21	1:v7:125:ALA:HB1	1.35	1.03
8:a7:25:ARG:NE	8:o7:25:ARG:CZ	2.17	1.03
8:c7:47:ARG:HD3	1:d7:18:TYR:CZ	1.93	1.03
3:B8:120:LEU:HD11	4:M8:53:LEU:CB	1.88	1.03
8:o7:29:PHE:CZ	1:p7:31:PHE:CE1	2.47	1.03
1:r7:68:PRO:HB2	1:t7:14:VAL:O	1.56	1.03
2:X8:57:GLN:NE2	3:T9:32:LYS:CD	2.21	1.03
3:Q8:117:TYR:HD1	3:Q8:120:LEU:HD21	1.23	1.03
3:H9:113:LEU:CD2	12:H9:202:CYC:HMB1	1.87	1.03
3:JA:88:ILE:CD1	11:aA:512:TYR:CE1	2.40	1.03
4:MA:127:SER:O	4:MA:130:SER:OG	1.76	1.03
3:J3:84:ARG:CD	11:a9:668:TYR:CG	2.31	1.03
3:B4:120:LEU:CD1	4:M4:53:LEU:CA	2.28	1.03
4:M3:127:SER:O	4:M3:130:SER:OG	1.76	1.03
5:N3:54:LEU:HD12	12:R3:201:CYC:C4B	1.87	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N4:111:ALA:HB3	5:Z4:34:LEU:HG	1.33	1.03
3:Q4:120:LEU:CD1	5:Z4:40:SER:H	1.71	1.03
8:W5:17:TYR:CE2	1:X5:44:ILE:HG22	1.88	1.03
10:j5:930:LEU:HB3	1:J7:33:THR:HG21	1.38	1.03
10:k5:934:ALA:HB3	1:D7:32:THR:CG2	1.84	1.03
10:k5:965:GLN:HG3	1:n7:69:GLY:O	1.57	1.03
3:F6:85:ASP:OD2	12:F6:201:CYC:NA	1.91	1.03
8:u7:29:PHE:CZ	1:v7:31:PHE:CE1	2.47	1.03
2:X8:69:PRO:O	2:S9:42:ARG:CD	2.07	1.03
3:F8:109:CYS:CA	4:M8:6:THR:CG2	2.35	1.03
4:M8:127:SER:CA	12:M8:302:CYC:HMA2	1.60	1.03
4:M8:141:GLU:OE1	4:M8:144:ARG:HB2	1.57	1.03
12:M8:302:CYC:HAC2	3:S8:78:ARG:HG2	1.40	1.03
3:H1:77:ARG:NH1	12:H1:201:CYC:CGD	2.21	1.03
3:HA:113:LEU:HD11	12:HA:202:CYC:CMB	1.89	1.03
6:M2:127:SER:HA	12:F2:201:CYC:O2A	1.59	1.03
3:F4:107:ASP:CA	4:M4:6:THR:O	2.07	1.03
4:M4:217:VAL:CG2	5:Z4:30:PRO:HB3	1.89	1.03
8:K5:80:LEU:HD12	12:K5:201:CYC:CAD	1.89	1.03
8:M5:19:SER:CB	8:A5:6:LYS:HZ2	1.69	1.03
12:F5:201:CYC:HMA2	10:k5:591:ILE:CG2	1.88	1.03
8:e5:102:THR:HB	8:e5:103:PRO:CD	1.88	1.03
1:f5:30:TYR:OH	10:j5:47:PHE:HZ	1.35	1.03
10:k5:778:LYS:HZ1	12:F7:201:CYC:HBB2	1.24	1.03
10:k5:803:LYS:NZ	9:z7:43:ARG:HH11	1.55	1.03
10:k5:820:HIS:ND1	10:k5:859:ILE:HD12	1.68	1.03
10:k5:1020:GLU:HG3	1:Z7:87:TYR:CZ	1.94	1.03
10:k5:1153:VAL:HG22	1:p7:65:LEU:HD11	1.34	1.03
8:a7:63:PRO:HD2	11:a9:336:ILE:HG23	1.39	1.03
3:F9:68:ARG:NH1	3:Z9:68:ARG:CZ	2.21	1.03
12:J9:202:CYC:HBA1	11:a9:511:LYS:HA	1.06	1.03
11:aA:735:VAL:N	12:aA:902:CYC:HBA2	1.72	1.03
3:TA:32:LYS:CD	2:X4:57:GLN:NE2	2.21	1.02
12:R1:201:CYC:C4B	5:N1:54:LEU:HD12	1.87	1.02
3:S4:113:LEU:O	3:S4:116:THR:CG2	2.06	1.02
3:H4:84:ARG:CB	11:aA:131:TYR:CZ	2.42	1.02
12:J4:201:CYC:CMA	11:aA:176:ASN:HD21	1.71	1.02
5:Z4:41:GLN:HG2	12:Z4:301:CYC:CMB	1.84	1.02
1:D5:75:THR:HG21	8:E5:112:VAL:CG2	1.87	1.02
8:E5:80:LEU:HD12	12:E5:201:CYC:CAD	1.89	1.02
1:H5:143:PRO:HG3	8:Q7:41:GLN:NE2	1.72	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c5:9:VAL:HG11	10:j5:344:ARG:CZ	1.89	1.02
1:f5:18:TYR:CD1	10:j5:165:ARG:CD	2.42	1.02
1:f5:19:LEU:HD12	10:j5:172:LEU:CD1	1.88	1.02
1:P5:107:ARG:NH2	10:k5:619:GLU:OE1	1.92	1.02
12:R5:201:CYC:HMD1	12:R5:201:CYC:HC	1.24	1.02
8:U5:76:LYS:CG	8:U5:77:MET:CE	2.36	1.02
8:W5:12:ASP:HA	1:X5:94:TYR:HE2	1.20	1.02
8:a5:102:THR:HB	8:a5:103:PRO:CD	1.88	1.02
10:k5:974:LEU:HG	1:p7:1:MET:H1	0.86	1.02
8:i7:20:PRO:HD2	8:s7:101:VAL:HG21	1.41	1.02
8:k7:68:PRO:HG2	11:a9:334:LYS:HD3	1.03	1.02
8:U7:102:THR:HB	8:U7:103:PRO:CD	1.88	1.02
3:B8:82:CYS:HA	12:B8:202:CYC:C2C	1.89	1.02
3:U8:114:LYS:NZ	4:M8:13:LYS:HE3	1.70	1.02
4:M8:127:SER:O	4:M8:130:SER:OG	1.77	1.02
12:F1:201:CYC:CMA	4:M1:36:TYR:O	2.07	1.02
4:M9:127:SER:O	4:M9:130:SER:OG	1.76	1.02
4:M9:158:PHE:O	3:V9:108:ARG:HG3	1.57	1.02
11:aA:448:ASN:OD1	11:aA:474:PHE:CE1	2.11	1.02
3:FA:151:GLY:N	3:F9:150:ARG:HE	1.57	1.02
2:SA:42:ARG:HE	2:X4:69:PRO:CD	1.73	1.02
3:B4:108:ARG:HA	4:M4:61:ASN:HA	1.42	1.02
2:U3:141:GLN:HA	2:Q9:76:ASP:H	1.21	1.02
3:B1:88:ILE:CG2	12:B1:202:CYC:HAB2	1.89	1.02
12:H4:201:CYC:HBB2	11:aA:259:ALA:HB2	1.36	1.02
4:M4:197:ASP:HB3	5:Z4:52:ARG:HG2	1.36	1.02
1:J5:73:TYR:O	1:J5:77:ARG:CD	2.07	1.02
1:f5:38:VAL:CG1	10:j5:40:VAL:CG1	2.36	1.02
8:W5:16:ARG:HB2	1:X5:90:ARG:NH1	1.68	1.02
10:j5:1049:PHE:CE1	10:j5:1065:HIS:CE1	2.47	1.02
10:k5:1049:PHE:CE1	10:k5:1065:HIS:CE1	2.47	1.02
12:E7:201:CYC:HMD1	12:E7:201:CYC:HC	1.18	1.02
1:H7:68:PRO:HB2	1:J7:14:VAL:O	1.56	1.02
8:i7:37:LEU:HD11	1:j7:31:PHE:CD2	1.95	1.02
3:B8:81:ALA:C	12:B8:202:CYC:HMD3	1.83	1.02
8:o7:4:LEU:HD11	1:p7:30:TYR:CE2	1.94	1.02
8:o7:27:LYS:HE3	1:p7:35:ALA:HB1	1.09	1.02
1:v7:62:TYR:HB3	11:aA:601:ALA:HB1	1.40	1.02
3:O8:107:ASP:HB2	5:Z8:61:LYS:NZ	1.74	1.02
2:P8:18:PHE:HA	3:Q8:91:ARG:HH21	1.16	1.02
3:S8:113:LEU:O	3:S8:116:THR:CG2	2.06	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N9:53:LEU:HB3	12:T9:301:CYC:HBA2	1.04	1.02
3:F9:150:ARG:HH11	12:F9:302:CYC:C1C	1.67	1.02
1:A:75:THR:HG21	10:k5:182:ASN:O	1.58	1.02
12:Z:201:CYC:HMD1	12:Z:201:CYC:HC	1.25	1.02
3:JA:70:GLY:CA	11:aA:357:THR:O	2.05	1.02
5:N3:1:MET:HE3	5:N3:1:MET:HA	1.41	1.02
5:N3:22:LEU:HD21	5:N3:26:LEU:HD21	1.38	1.02
8:G5:61:ILE:CG2	8:o7:68:PRO:HG2	1.89	1.02
12:H5:201:CYC:HMD1	12:H5:201:CYC:HC	1.25	1.02
12:J5:201:CYC:HMD1	12:J5:201:CYC:HC	1.25	1.02
1:d5:28:LYS:NZ	1:n7:143:PRO:HG2	1.67	1.02
1:X5:50:THR:CG2	8:a5:49:ARG:NH1	2.21	1.02
10:j5:989:THR:CG2	8:g7:106:GLU:OE2	2.07	1.02
10:j5:1118:THR:CG2	12:j5:1202:CYC:O2A	2.07	1.02
10:k5:1045:TYR:OH	10:k5:1062:LEU:CD2	2.08	1.02
3:F6:130:ALA:HB2	12:F6:201:CYC:HBC2	1.42	1.02
1:B7:68:PRO:HB2	1:D7:14:VAL:O	1.55	1.02
8:m7:102:THR:HB	8:m7:103:PRO:CD	1.88	1.02
8:u7:4:LEU:HD11	1:v7:30:TYR:CE2	1.94	1.02
2:I8:115:GLU:OE1	11:a9:133:LEU:HD23	1.57	1.02
3:Q8:85:ASP:CG	12:Z8:301:CYC:HBC1	1.76	1.02
3:L9:120:LEU:HD22	11:a9:538:ARG:HB2	1.42	1.02
4:M9:158:PHE:O	3:V9:108:ARG:CG	2.08	1.02
4:M9:274:VAL:HA	3:V9:77:ARG:HG3	1.39	1.02
5:N9:70:ILE:HG22	3:T9:119:ALA:HB2	1.42	1.02
5:Z8:1:MET:HA	5:Z8:1:MET:HE3	1.41	1.02
2:I9:37:SER:HA	2:I9:97:LEU:HD21	1.41	1.02
11:a9:308:LEU:HD21	11:a9:315:LEU:HD12	1.40	1.02
11:a9:426:ARG:HH21	11:a9:496:ARG:HD3	1.15	1.02
11:aA:602:PRO:O	11:aA:604:ALA:N	1.91	1.02
11:aA:745:GLY:CA	2:K1:15:GLN:HA	1.89	1.02
4:M1:127:SER:O	4:M1:130:SER:OG	1.76	1.02
1:A:110:ASN:OD1	10:k5:462:TYR:CE1	2.13	1.02
3:FA:150:ARG:CA	3:F9:150:ARG:HE	1.72	1.02
2:Q1:14:SER:HB3	5:N1:62:ARG:HH21	0.89	1.02
3:J3:119:ALA:O	11:a9:803:ASN:CA	2.08	1.02
12:J3:202:CYC:HMA2	11:a9:666:ASN:HB2	1.40	1.02
6:M2:26:PHE:CE2	8:O5:90:ARG:NH2	2.26	1.02
12:M4:301:CYC:CBC	3:Y4:82:CYS:SG	2.46	1.02
8:A5:106:GLU:OE1	10:k5:557:VAL:O	1.76	1.02
12:f5:201:CYC:HMD1	12:f5:201:CYC:HC	1.25	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M6:279:ASP:O	8:Y7:76:LYS:NZ	1.92	1.02
10:j5:136:VAL:CG1	10:j5:137:PRO:HD2	1.84	1.02
10:j5:386:ILE:HG23	10:j5:387:VAL:N	1.65	1.02
10:j5:1146:THR:CA	1:v7:77:ARG:NH2	2.20	1.02
10:k5:1054:SER:N	1:l7:106:GLU:O	1.92	1.02
1:T7:68:PRO:HB2	1:V7:14:VAL:O	1.56	1.02
12:W7:201:CYC:HMD1	12:W7:201:CYC:HC	1.18	1.02
12:D8:202:CYC:HBA2	4:M8:35:THR:CA	1.89	1.02
12:U8:201:CYC:HBA2	4:M8:252:LEU:O	1.56	1.02
2:X8:69:PRO:HD2	2:S9:42:ARG:HE	1.22	1.02
3:O8:115:GLU:OE2	5:Z8:69:GLU:OE2	1.77	1.02
3:L9:14:LEU:CD1	11:a9:358:PRO:CG	2.30	1.02
4:M9:258:LYS:HG2	3:V9:111:ASN:ND2	1.75	1.02
5:Z8:41:GLN:CG	12:Z8:301:CYC:HBB2	1.85	1.02
5:N1:1:MET:HA	5:N1:1:MET:HE3	1.41	1.02
5:N1:21:ALA:HB2	5:N1:68:LEU:HD11	1.42	1.02
12:HA:202:CYC:C4B	11:aA:474:PHE:CZ	2.43	1.02
3:JA:78:ARG:NH1	11:aA:359:ASP:HA	1.74	1.02
12:H3:202:CYC:O2A	11:a9:776:TYR:HD2	1.42	1.02
3:B4:85:ASP:N	12:B4:202:CYC:HAC1	1.75	1.02
3:B4:120:LEU:HD21	4:M4:52:LEU:HB3	1.41	1.02
3:U4:120:LEU:HD12	4:M4:254:LEU:HG	1.36	1.02
1:d5:28:LYS:HZ2	1:n7:143:PRO:HG2	0.88	1.02
8:S5:14:GLU:HG2	10:j5:538:PHE:CZ	1.94	1.02
1:b5:30:TYR:CZ	10:k5:47:PHE:CZ	2.47	1.02
1:b5:114:GLU:CG	10:k5:491:THR:OG1	2.07	1.02
6:M6:127:SER:HB2	3:F6:84:ARG:CZ	1.81	1.02
6:M6:127:SER:O	12:F6:201:CYC:CBA	2.06	1.02
10:j5:190:LEU:CB	10:j5:194:CYS:SG	2.46	1.02
12:j5:1202:CYC:HMD1	12:j5:1202:CYC:HC	1.25	1.02
10:k5:931:VAL:CG2	1:D7:29:ALA:C	2.33	1.02
8:S7:49:ARG:HD2	11:aA:550:PHE:CD1	1.94	1.02
12:H7:201:CYC:HMD1	12:H7:201:CYC:HC	1.25	1.02
8:i7:25:ARG:HE	8:s7:3:VAL:HA	1.25	1.02
8:i7:92:VAL:HG23	8:i7:156:LEU:CD1	1.88	1.02
8:u7:103:PRO:CG	1:v7:9:ILE:HD13	1.90	1.02
5:N9:1:MET:HA	5:N9:1:MET:HE3	1.41	1.02
5:Z8:37:HIS:NE2	12:Z8:301:CYC:C2A	2.21	1.02
3:J9:78:ARG:NH1	11:a9:359:ASP:HA	1.75	1.02
2:IA:25:GLN:HE21	2:IA:25:GLN:HA	1.25	1.01
3:JA:111:ASN:N	11:aA:518:ALA:HB3	1.73	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J3:84:ARG:HD2	11:a9:668:TYR:CD1	1.71	1.01
12:F3:201:CYC:CMA	4:M3:36:TYR:O	2.07	1.01
3:H4:80:ALA:HB1	3:H4:84:ARG:HH12	1.25	1.01
3:H4:111:ASN:ND2	11:aA:291:TYR:OH	1.93	1.01
12:B5:201:CYC:HMD1	12:B5:201:CYC:HC	1.25	1.01
1:D5:73:TYR:O	1:D5:77:ARG:CD	2.07	1.01
1:Z5:110:ASN:HD21	10:k5:451:LYS:HB2	1.18	1.01
12:Z5:201:CYC:HMD1	12:Z5:201:CYC:HC	1.25	1.01
10:j5:136:VAL:CG1	10:j5:137:PRO:HD3	1.86	1.01
10:j5:275:THR:HG21	10:j5:286:VAL:HG13	1.41	1.01
10:j5:804:GLU:OE1	9:w7:30:LYS:HE3	1.59	1.01
10:k5:951:MET:CE	10:k5:955:LEU:HG	1.88	1.01
10:k5:1023:SER:OG	12:k5:1202:CYC:O2A	1.75	1.01
12:R7:201:CYC:HMD1	12:R7:201:CYC:HC	1.25	1.01
12:J7:201:CYC:HMD1	12:J7:201:CYC:HC	1.25	1.01
8:i7:46:ALA:CB	8:i7:140:LEU:HD12	1.90	1.01
12:c7:201:CYC:HMD1	12:c7:201:CYC:HC	1.18	1.01
8:q7:66:VAL:CG1	11:aA:61:TYR:CE1	2.43	1.01
2:X8:69:PRO:CD	2:S9:42:ARG:HE	1.73	1.01
2:N8:111:ALA:C	5:Z8:34:LEU:HA	1.85	1.01
3:Q8:102:ALA:HB3	3:Q8:166:LYS:HE2	1.38	1.01
2:I9:25:GLN:HA	2:I9:25:GLN:HE21	1.25	1.01
4:MA:158:PHE:O	3:VA:108:ARG:HG3	1.57	1.01
3:D4:14:LEU:HD13	3:Y4:125:ARG:HD2	1.02	1.01
3:B1:88:ILE:CG2	12:B1:202:CYC:HMB2	1.89	1.01
3:S4:82:CYS:HA	12:S4:202:CYC:CAC	1.89	1.01
4:M4:82:ILE:HD11	12:M4:301:CYC:O2D	0.85	1.01
2:N4:14:SER:HB2	5:Z4:62:ARG:HD2	1.41	1.01
3:O4:111:ASN:O	5:Z4:67:ILE:CG2	2.07	1.01
8:A5:106:GLU:OE1	10:k5:557:VAL:HG13	1.61	1.01
12:B5:201:CYC:CBA	9:z5:26:THR:CG2	2.38	1.01
12:F5:201:CYC:HMD1	12:F5:201:CYC:HC	1.25	1.01
12:P5:201:CYC:HMD1	12:P5:201:CYC:HC	1.25	1.01
8:U5:102:THR:HB	8:U5:103:PRO:CD	1.88	1.01
1:X5:65:LEU:CD1	10:j5:706:PRO:HG3	1.89	1.01
1:Z5:67:ARG:NH2	10:k5:705:THR:OG1	1.93	1.01
10:j5:741:GLN:HG3	1:J7:77:ARG:HH22	0.85	1.01
10:k5:136:VAL:CG1	10:k5:137:PRO:HD3	1.86	1.01
10:k5:138:PRO:HB3	10:k5:201:VAL:CG1	1.90	1.01
8:Q7:25:ARG:HB2	8:C7:25:ARG:NH2	1.72	1.01
1:B7:140:LEU:HG	11:a9:561:ALA:HB2	1.39	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h7:54:GLU:O	1:h7:58:LYS:HG3	1.60	1.01
8:i7:96:ILE:N	8:i7:152:TYR:CE2	2.28	1.01
8:k7:64:ASP:HB3	11:a9:69:ARG:HH22	1.25	1.01
1:b7:54:GLU:O	1:b7:58:LYS:HG3	1.60	1.01
8:c7:8:ILE:HG23	1:d7:94:TYR:CD1	1.96	1.01
2:E8:15:GLN:HG2	11:a9:163:ASP:HB2	1.39	1.01
8:o7:103:PRO:CG	1:p7:9:ILE:HD13	1.90	1.01
3:F8:107:ASP:HA	4:M8:8:SER:H	1.19	1.01
3:F8:112:GLY:C	3:F8:114:LYS:H	1.60	1.01
4:M8:144:ARG:CG	4:M8:204:ILE:HG21	1.90	1.01
3:O8:107:ASP:CG	5:Z8:66:ARG:CB	2.33	1.01
11:aA:668:TYR:OH	2:K1:115:GLU:CG	2.07	1.01
4:M1:158:PHE:CD1	3:Z1:108:ARG:CZ	2.39	1.01
4:M1:252:LEU:CD1	12:X1:201:CYC:O1D	2.09	1.01
3:DA:68:ARG:NH2	3:XA:68:ARG:NH1	2.06	1.01
4:M3:245:ASP:HB3	3:X3:108:ARG:O	1.60	1.01
3:F4:77:ARG:HD2	11:aA:146:ARG:NH1	1.74	1.01
3:F4:113:LEU:CB	4:M4:5:THR:CG2	2.11	1.01
3:H4:80:ALA:HB1	3:H4:84:ARG:NH1	1.75	1.01
4:M4:210:ILE:HD11	5:Z4:26:LEU:HD22	1.37	1.01
2:N4:111:ALA:C	5:Z4:34:LEU:CD1	2.31	1.01
8:M5:110:ILE:HD12	10:k5:533:LEU:CD1	1.89	1.01
8:G5:12:ASP:OD1	1:H5:91:TYR:CE1	2.13	1.01
8:G5:61:ILE:CD1	8:o7:68:PRO:HD2	1.90	1.01
8:G5:61:ILE:HG13	8:o7:68:PRO:HD2	1.03	1.01
1:f5:19:LEU:CD1	10:j5:172:LEU:HD13	1.82	1.01
1:R5:106:GLU:CG	10:k5:504:ASP:O	2.08	1.01
10:j5:75:ILE:HG22	10:j5:139:ASP:OD2	1.60	1.01
10:j5:283:ARG:HB2	10:j5:284:PRO:HD2	1.39	1.01
8:C7:102:THR:HB	8:C7:103:PRO:CD	1.88	1.01
2:X8:57:GLN:OE1	3:T9:32:LYS:CE	2.08	1.01
3:L8:82:CYS:SG	12:a9:901:CYC:C1C	2.48	1.01
4:M8:233:GLU:HG3	3:Y8:112:GLY:HA3	1.37	1.01
3:Q8:87:GLU:CD	5:Z8:31:TRP:HH2	1.67	1.01
5:Z8:21:ALA:HB2	5:Z8:68:LEU:HD11	1.42	1.01
5:Z8:22:LEU:HD21	5:Z8:26:LEU:HD21	1.38	1.01
3:B9:26:GLN:O	3:B9:30:LEU:HD13	1.59	1.01
11:a9:476:ARG:HH12	11:a9:488:SER:HB2	1.23	1.01
11:aA:55:ASP:CB	11:aA:612:TYR:CB	2.22	1.01
3:JA:111:ASN:O	11:aA:518:ALA:CB	2.09	1.01
3:JA:111:ASN:C	11:aA:518:ALA:HB3	1.85	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:58:TYR:CD1	11:aA:496:ARG:NH2	2.28	1.01
2:QA:18:PHE:CZ	3:RA:48:ALA:HB1	1.94	1.01
2:SA:42:ARG:HE	2:X4:69:PRO:HD2	1.22	1.01
3:TA:32:LYS:CE	2:X4:57:GLN:OE1	2.08	1.01
3:B4:82:CYS:CA	12:B4:202:CYC:C1C	2.37	1.01
3:F4:115:GLU:HG2	4:M4:3:VAL:CG2	1.90	1.01
12:L4:202:CYC:HBB2	11:aA:245:ALA:HB2	1.40	1.01
4:M4:127:SER:O	4:M4:130:SER:OG	1.77	1.01
4:M4:211:GLN:O	5:Z4:28:HIS:CE1	2.14	1.01
3:Q4:124:THR:HB	3:Q4:171:ILE:O	1.60	1.01
5:Z4:1:MET:HA	5:Z4:1:MET:HE3	1.41	1.01
8:G5:100:ASP:OD1	8:S5:20:PRO:CB	2.07	1.01
1:T5:110:ASN:HD21	10:j5:692:LEU:HB2	1.21	1.01
12:X5:201:CYC:HMD1	12:X5:201:CYC:HC	1.24	1.01
10:k5:1152:TYR:HD2	8:G7:68:PRO:HG3	0.84	1.01
12:F7:201:CYC:HMD1	12:F7:201:CYC:HC	1.25	1.01
12:T7:201:CYC:HMD1	12:T7:201:CYC:HC	1.25	1.01
8:c7:46:ALA:CB	8:c7:140:LEU:HD12	1.90	1.01
4:M8:127:SER:HB3	12:M8:302:CYC:HMA3	1.02	1.01
4:M8:197:ASP:HB3	5:Z8:52:ARG:HG2	1.38	1.01
3:Q8:102:ALA:HB1	3:Q8:166:LYS:CE	1.75	1.01
12:J9:202:CYC:CGA	11:a9:511:LYS:CD	2.39	1.01
11:aA:666:ASN:HB2	12:aA:901:CYC:HMA2	1.40	1.01
11:aA:776:TYR:N	12:H1:201:CYC:CBA	2.19	1.01
5:N1:22:LEU:HD21	5:N1:26:LEU:HD21	1.38	1.01
1:Z:110:ASN:OD1	10:j5:462:TYR:CZ	2.12	1.01
2:EA:115:GLU:OE2	4:MA:33:LEU:CD2	2.09	1.01
5:NA:21:ALA:HB2	5:NA:68:LEU:HD11	1.42	1.01
3:J3:84:ARG:NH2	11:a9:670:LEU:HA	1.76	1.01
3:L2:75:PRO:HG2	3:L2:78:ARG:CB	1.90	1.01
2:A3:16:GLY:CA	11:a9:677:GLN:NE2	2.22	1.01
3:B4:85:ASP:CB	12:B4:202:CYC:C3C	2.10	1.01
3:L3:84:ARG:CG	11:a9:742:GLN:OE1	2.07	1.01
3:S4:120:LEU:HD22	12:S4:202:CYC:HBD1	1.03	1.01
10:j5:66:MET:HA	10:j5:66:MET:HE3	1.39	1.01
10:j5:275:THR:HG21	10:j5:286:VAL:CG1	1.91	1.01
10:k5:192:LYS:HA	10:k5:192:LYS:NZ	1.76	1.01
10:k5:546:PHE:HE1	10:k5:561:GLU:CD	1.68	1.01
12:k5:1203:CYC:HMD1	12:k5:1203:CYC:HC	1.24	1.01
12:B7:201:CYC:HMD1	12:B7:201:CYC:HC	1.25	1.01
2:X8:74:TYR:OH	2:S9:35:THR:O	1.79	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L8:68:ARG:HB2	11:a9:82:GLN:H	0.88	1.01
4:M8:127:SER:CB	12:M8:302:CYC:HMA3	1.78	1.01
4:M9:58:TYR:CE2	11:a9:496:ARG:CZ	2.44	1.01
2:K9:15:GLN:HB3	11:a9:393:ARG:HH12	1.16	1.01
11:a9:245:ALA:HB2	12:a9:901:CYC:C4B	1.90	1.01
11:a9:275:THR:O	11:a9:278:LEU:CD1	2.08	1.01
4:M1:245:ASP:HB3	3:X1:108:ARG:O	1.60	1.01
3:HA:119:ALA:CA	8:S7:49:ARG:HH12	1.73	1.00
4:MA:158:PHE:O	3:VA:108:ARG:CG	2.08	1.00
5:N3:21:ALA:HB2	5:N3:68:LEU:HD11	1.42	1.00
3:F4:108:ARG:CD	4:M4:9:GLN:HG3	1.91	1.00
2:N4:112:GLY:N	5:Z4:34:LEU:CB	2.12	1.00
1:B5:14:VAL:HG12	10:k5:554:ASN:O	1.58	1.00
1:B5:107:ARG:CZ	9:z5:21:ARG:HD3	1.91	1.00
12:P7:201:CYC:HMD1	12:P7:201:CYC:HC	1.25	1.00
1:R7:49:THR:CG2	8:C7:161:GLN:HG2	1.91	1.00
1:B7:136:VAL:CG1	11:a9:563:PHE:CE2	2.43	1.00
8:U7:52:LYS:HE3	11:a9:29:ARG:HH12	0.86	1.00
12:X7:201:CYC:HMD1	12:X7:201:CYC:HC	1.24	1.00
8:a7:48:GLU:CA	11:a9:318:TRP:CH2	2.41	1.00
8:c7:11:ALA:CB	1:d7:94:TYR:CE1	2.43	1.00
8:c7:96:ILE:N	8:c7:152:TYR:CE2	2.28	1.00
12:d7:201:CYC:HBB2	9:x7:42:GLN:OE1	1.61	1.00
8:o7:27:LYS:HD2	1:p7:35:ALA:CB	1.91	1.00
8:u7:27:LYS:CD	1:v7:35:ALA:CB	2.40	1.00
8:u7:29:PHE:CZ	1:v7:31:PHE:CZ	2.50	1.00
4:M9:58:TYR:CD1	11:a9:496:ARG:NH2	2.28	1.00
3:J9:88:ILE:HD11	11:a9:512:TYR:CD1	1.96	1.00
2:K9:15:GLN:CB	11:a9:393:ARG:HH11	1.66	1.00
11:aA:81:ASP:OD1	11:aA:81:ASP:O	1.78	1.00
1:Z:161:SER:OG	1:X5:14:VAL:HG21	1.59	1.00
3:LA:14:LEU:CD1	11:aA:358:PRO:CG	2.31	1.00
4:MA:58:TYR:CE2	11:aA:496:ARG:CZ	2.44	1.00
2:S1:16:GLY:HA2	5:N1:31:TRP:CD1	1.93	1.00
6:M2:39:ARG:NH1	8:O5:59:PHE:CD2	2.30	1.00
3:Z3:111:ASN:ND2	4:M3:258:LYS:NZ	2.05	1.00
3:B4:108:ARG:O	4:M4:61:ASN:HB3	1.60	1.00
3:L3:119:ALA:HB3	11:a9:813:PRO:HB3	1.38	1.00
3:B1:88:ILE:HG23	12:B1:202:CYC:HAB2	1.44	1.00
3:F4:115:GLU:C	4:M4:3:VAL:HG11	1.87	1.00
2:I4:112:GLY:HA2	11:aA:133:LEU:HD21	1.44	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z4:21:ALA:HB2	5:Z4:68:LEU:HD11	1.42	1.00
8:A5:122:PRO:O	12:A5:201:CYC:HMC3	1.61	1.00
8:Y5:9:VAL:HG11	10:k5:344:ARG:NH2	1.74	1.00
10:j5:138:PRO:HB3	10:j5:201:VAL:CG1	1.90	1.00
10:j5:192:LYS:HA	10:j5:192:LYS:NZ	1.76	1.00
10:k5:1025:LEU:HD23	10:k5:1030:ILE:HG23	1.43	1.00
12:j7:201:CYC:CBB	9:y7:42:GLN:OE1	2.10	1.00
8:o7:27:LYS:CD	1:p7:35:ALA:CB	2.40	1.00
8:u7:27:LYS:HD2	1:v7:35:ALA:CB	1.90	1.00
2:I8:112:GLY:HA2	11:a9:133:LEU:HD21	1.42	1.00
11:aA:312:ASP:O	11:aA:315:LEU:N	1.82	1.00
11:aA:667:THR:CG2	12:aA:901:CYC:CBA	1.98	1.00
1:A:161:SER:CB	1:R5:14:VAL:CB	2.25	1.00
3:HA:113:LEU:CD2	12:HA:202:CYC:HMB1	1.90	1.00
3:JA:65:ASP:CB	11:aA:354:VAL:CG2	2.39	1.00
3:LA:52:ILE:HD13	3:LA:87:GLU:CB	1.85	1.00
5:NA:1:MET:HE3	5:NA:1:MET:HA	1.41	1.00
3:J3:111:ASN:HD21	11:a9:631:GLY:CA	1.75	1.00
3:B1:86:MET:CG	12:B1:202:CYC:HBC1	1.92	1.00
4:M4:29:PRO:HG3	11:aA:226:PHE:HA	1.43	1.00
4:M4:144:ARG:CG	4:M4:204:ILE:HG21	1.90	1.00
8:K5:20:PRO:HG3	8:U5:151:PHE:O	1.61	1.00
1:Z5:28:LYS:CD	1:t7:143:PRO:HB3	1.90	1.00
3:L6:125:ARG:CD	1:b7:69:GLY:HA3	1.84	1.00
10:j5:1081:VAL:HG11	12:r7:201:CYC:HMA2	1.41	1.00
10:k5:75:ILE:HG22	10:k5:139:ASP:OD2	1.60	1.00
10:k5:275:THR:HG21	10:k5:286:VAL:CG1	1.91	1.00
8:Q7:12:ASP:C	9:z7:46:LYS:NZ	2.18	1.00
1:f7:67:ARG:CD	11:aA:311:LEU:CD2	2.29	1.00
8:o7:29:PHE:CZ	1:p7:31:PHE:CZ	2.49	1.00
3:F8:77:ARG:HD2	11:a9:146:ARG:NH1	1.76	1.00
3:F8:107:ASP:CA	4:M8:6:THR:O	2.09	1.00
3:F8:109:CYS:C	4:M8:6:THR:CG2	2.34	1.00
3:L8:82:CYS:HB2	12:a9:901:CYC:CMD	1.91	1.00
3:Q8:77:ARG:HA	5:Z8:34:LEU:CB	1.85	1.00
4:M9:158:PHE:O	3:V9:108:ARG:HD3	1.59	1.00
3:Y8:87:GLU:CD	3:Y8:91:ARG:NH2	2.17	1.00
3:F9:150:ARG:NH1	12:F9:302:CYC:OC	1.93	1.00
3:J9:111:ASN:C	11:a9:518:ALA:HB3	1.86	1.00
11:a9:81:ASP:OD1	11:a9:81:ASP:O	1.78	1.00
11:aA:813:PRO:HB2	3:L1:119:ALA:HB2	1.03	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:16:GLY:CA	11:aA:677:GLN:NE2	2.24	1.00
4:M4:104:ALA:HB2	2:P4:14:SER:N	1.76	1.00
3:Y4:89:ILE:CG2	3:Y4:92:TYR:CZ	2.37	1.00
8:A5:103:PRO:HA	10:k5:557:VAL:HG22	1.39	1.00
10:k5:929:PRO:HG2	1:D7:147:LYS:HG3	1.42	1.00
12:r7:201:CYC:HMD1	12:r7:201:CYC:HC	1.24	1.00
3:H8:111:ASN:ND2	11:a9:291:TYR:OH	1.93	1.00
3:H9:126:SER:HB3	12:H9:202:CYC:CMC	1.91	1.00
2:G1:107:ASP:CA	3:L1:77:ARG:NH2	2.25	1.00
11:a9:338:VAL:HG22	11:a9:340:PRO:HG3	1.42	1.00
3:HA:84:ARG:HA	11:aA:478:HIS:NE2	1.71	1.00
4:MA:77:LEU:HD11	3:ZA:115:GLU:OE2	0.83	1.00
3:B4:86:MET:CA	12:B4:202:CYC:HBC1	1.90	1.00
3:L4:71:GLY:N	11:aA:82:GLN:CG	2.24	1.00
3:Q4:102:ALA:CB	3:Q4:166:LYS:CE	2.32	1.00
1:R5:65:LEU:CD1	10:k5:706:PRO:HG3	1.92	1.00
8:W5:15:ALA:O	1:X5:90:ARG:HD2	1.60	1.00
8:A7:56:ASP:OD1	11:aA:586:LEU:HD12	1.58	1.00
10:j5:1143:LEU:CD1	8:q7:106:GLU:HB2	1.92	1.00
10:k5:386:ILE:HG23	10:k5:387:VAL:H	0.84	1.00
8:g7:48:GLU:CA	11:aA:318:TRP:CH2	2.43	1.00
12:d7:201:CYC:C4B	9:x7:38:PHE:CE1	2.44	1.00
8:q7:76:LYS:NZ	11:aA:605:PRO:CB	2.25	1.00
8:u7:23:LEU:HD22	1:v7:38:VAL:CB	1.91	1.00
4:M9:33:LEU:CD2	2:E9:115:GLU:OE2	2.09	1.00
5:Z8:37:HIS:CE1	12:Z8:301:CYC:HB	1.79	1.00
12:H9:202:CYC:C4B	11:a9:474:PHE:CZ	2.45	1.00
11:aA:803:ASN:CA	3:J1:119:ALA:O	2.07	1.00
11:aA:813:PRO:HB3	3:L1:119:ALA:HB3	1.40	1.00
3:S4:82:CYS:HA	12:S4:202:CYC:HAC2	1.42	1.00
1:b5:18:TYR:CD1	10:k5:165:ARG:CD	2.43	1.00
6:M6:271:VAL:HG11	1:d7:124:ALA:O	1.61	1.00
12:k5:1204:CYC:HMD1	12:k5:1204:CYC:HC	1.25	1.00
1:B7:140:LEU:CD1	11:a9:561:ALA:HB1	1.91	1.00
12:D7:201:CYC:HMD1	12:D7:201:CYC:HC	1.25	1.00
12:V7:201:CYC:HMD1	12:V7:201:CYC:HC	1.25	1.00
8:a7:52:LYS:HD2	11:a9:321:ALA:HB2	1.42	1.00
8:c7:15:ALA:CB	1:d7:90:ARG:NH2	2.25	1.00
4:M8:214:GLY:N	5:Z8:28:HIS:NE2	2.04	1.00
4:M9:38:PRO:O	3:B9:116:THR:OG1	1.80	1.00
11:a9:275:THR:O	11:a9:278:LEU:HD12	1.62	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:1:MET:CG	11:aA:422:SER:O	2.10	1.00
4:MA:258:LYS:HG2	3:VA:111:ASN:ND2	1.75	1.00
5:NA:16:PHE:CZ	3:TA:120:LEU:CD2	2.45	1.00
3:L3:119:ALA:HB2	11:a9:813:PRO:HB2	1.01	1.00
3:F4:109:CYS:N	4:M4:6:THR:HG21	1.70	1.00
12:b5:201:CYC:HMD1	12:b5:201:CYC:HC	1.25	1.00
10:k5:938:GLN:CD	1:D7:28:LYS:CD	2.33	1.00
8:i7:3:VAL:HG13	8:s7:25:ARG:HH22	1.25	1.00
8:a7:33:GLY:HA3	1:b7:31:PHE:CE2	1.97	1.00
8:u7:37:LEU:HD22	1:v7:24:LEU:HD22	1.00	1.00
11:aA:75:ALA:CB	11:aA:81:ASP:CB	2.19	1.00
4:M1:162:ASN:HB2	12:Z1:202:CYC:OB	1.61	1.00
2:SA:39:GLU:HA	2:X4:69:PRO:CB	1.93	0.99
3:J3:84:ARG:CD	11:a9:668:TYR:HB3	1.91	0.99
2:P4:19:LEU:CD2	3:Q4:95:TYR:CE1	2.43	0.99
8:M5:19:SER:HB3	8:A5:6:LYS:NZ	1.76	0.99
8:M5:68:PRO:HB3	8:e5:59:PHE:HB2	1.43	0.99
8:A5:12:ASP:OD1	1:B5:91:TYR:CE1	2.13	0.99
1:d5:110:ASN:HD21	10:j5:451:LYS:HB2	1.27	0.99
8:U5:80:LEU:HG	6:M6:28:ASN:HB2	1.37	0.99
12:V5:201:CYC:HMD1	12:V5:201:CYC:HC	1.25	0.99
10:j5:1045:TYR:OH	10:j5:1062:LEU:CD2	2.08	0.99
10:k5:136:VAL:CB	10:k5:137:PRO:CD	2.39	0.99
8:k7:76:LYS:HZ1	11:a9:605:PRO:CB	1.75	0.99
8:c7:47:ARG:HD3	1:d7:18:TYR:CE1	1.96	0.99
3:B8:119:ALA:HB2	4:M8:69:ILE:CG2	1.92	0.99
12:D8:202:CYC:CBA	4:M8:35:THR:CA	2.39	0.99
12:D8:202:CYC:CGA	4:M8:35:THR:HB	1.91	0.99
3:F8:115:GLU:OE2	4:M8:3:VAL:CG2	2.09	0.99
3:Q8:72:ASN:ND2	12:Z8:301:CYC:HBD2	1.74	0.99
4:M9:1:MET:CG	11:a9:422:SER:O	2.10	0.99
5:N9:16:PHE:CZ	3:T9:120:LEU:CD2	2.45	0.99
11:aA:631:GLY:CA	3:J1:111:ASN:HD21	1.74	0.99
11:aA:742:GLN:OE1	3:L1:84:ARG:CG	2.09	0.99
3:LA:120:LEU:HD22	11:aA:538:ARG:HB2	1.43	0.99
4:MA:158:PHE:O	3:VA:108:ARG:HD3	1.59	0.99
10:k5:966:SER:HA	1:p7:14:VAL:HG13	1.40	0.99
1:p7:140:LEU:HD12	11:a9:342:ARG:HD3	1.40	0.99
2:N8:115:GLU:HG3	5:Z8:32:PRO:HG2	1.00	0.99
12:L9:202:CYC:O1D	11:a9:538:ARG:HB3	1.62	0.99
3:JA:88:ILE:HD11	11:aA:512:TYR:CD1	1.97	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B4:119:ALA:HB2	4:M4:69:ILE:CG2	1.90	0.99
4:M4:217:VAL:CG2	5:Z4:30:PRO:CB	2.40	0.99
1:T5:53:LYS:HZ2	8:U5:120:GLN:CG	1.75	0.99
10:j5:1125:ARG:NH2	1:t7:114:GLU:CB	2.25	0.99
10:k5:1151:GLN:O	1:p7:122:PRO:HB2	1.62	0.99
3:B8:81:ALA:CA	12:B8:202:CYC:HMD3	1.92	0.99
4:M8:214:GLY:CA	5:Z8:28:HIS:CG	2.44	0.99
2:N8:14:SER:CB	5:Z8:62:ARG:CD	2.34	0.99
2:K9:15:GLN:HB3	11:a9:393:ARG:NH1	1.68	0.99
11:aA:746:TYR:HB3	2:K1:14:SER:CB	1.92	0.99
11:aA:798:SER:HB3	12:aA:901:CYC:HAA1	1.44	0.99
3:F4:109:CYS:N	4:M4:6:THR:HG22	1.68	0.99
12:L5:201:CYC:HMD1	12:L5:201:CYC:HC	1.25	0.99
8:Q5:15:ALA:O	1:R5:90:ARG:HD2	1.60	0.99
4:M9:77:LEU:HD11	3:Z9:115:GLU:OE2	0.83	0.99
11:aA:275:THR:O	11:aA:278:LEU:HD12	1.62	0.99
11:aA:476:ARG:HH12	11:aA:488:SER:HB2	1.23	0.99
2:IA:37:SER:HA	2:IA:97:LEU:HD21	1.41	0.99
4:M3:252:LEU:CD1	12:X3:201:CYC:O1D	2.09	0.99
3:B1:127:VAL:HA	12:B1:202:CYC:HMC1	1.43	0.99
8:A5:121:THR:HG23	12:A5:201:CYC:NC	1.78	0.99
1:f5:18:TYR:CD2	10:j5:165:ARG:HG3	1.97	0.99
8:i7:43:LEU:HD11	8:i7:141:LEU:HD11	1.45	0.99
8:k7:68:PRO:CG	11:a9:334:LYS:HD3	1.91	0.99
12:p7:201:CYC:HMD1	12:p7:201:CYC:HC	1.24	0.99
3:L8:68:ARG:HB3	11:a9:81:ASP:CA	1.92	0.99
4:M8:138:SER:OG	4:M8:215:GLU:OE2	1.79	0.99
3:Q8:82:CYS:HA	12:Z8:301:CYC:HAC2	1.39	0.99
11:aA:631:GLY:C	3:J1:111:ASN:HD21	1.69	0.99
11:aA:668:TYR:CE2	3:J1:80:ALA:HB1	1.97	0.99
2:G3:107:ASP:CA	3:L3:77:ARG:NH2	2.24	0.99
3:U4:115:GLU:HB2	4:M4:74:LEU:CD1	1.72	0.99
3:F4:115:GLU:CB	4:M4:3:VAL:CG1	2.40	0.99
1:L5:119:LEU:HD21	10:j5:546:PHE:HD2	1.24	0.99
8:O5:76:LYS:CG	8:O5:77:MET:CE	2.36	0.99
8:O5:151:PHE:HB3	8:E5:20:PRO:HB3	1.40	0.99
8:o7:23:LEU:HD22	1:p7:38:VAL:CB	1.91	0.99
8:o7:23:LEU:CD2	1:p7:38:VAL:HG13	1.92	0.99
2:K9:25:GLN:O	2:K9:26:ALA:C	1.98	0.99
11:aA:275:THR:O	11:aA:278:LEU:CD1	2.08	0.99
11:aA:476:ARG:HH12	11:aA:488:SER:CB	1.71	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F2:78:ARG:HD3	12:F2:201:CYC:CGD	1.92	0.99
3:J3:111:ASN:HD21	11:a9:631:GLY:C	1.70	0.99
3:H2:77:ARG:NH1	6:M2:117:MET:HE3	1.56	0.99
12:L4:202:CYC:C4B	11:aA:239:TYR:CD1	2.45	0.99
2:N4:111:ALA:HB3	5:Z4:34:LEU:HD11	1.40	0.99
8:K5:24:ASP:OD2	8:U5:148:GLU:OE2	1.80	0.99
8:G5:121:THR:HG23	12:G5:201:CYC:NC	1.78	0.99
12:R5:201:CYC:HBB2	10:k5:520:ARG:NE	1.76	0.99
10:k5:1077:ILE:O	12:k5:1203:CYC:HBA2	1.52	0.99
12:h7:201:CYC:HMD1	12:h7:201:CYC:HC	1.25	0.99
12:f7:201:CYC:HMD1	12:f7:201:CYC:HC	1.24	0.99
5:Z8:37:HIS:CE1	12:Z8:301:CYC:C3A	2.44	0.99
3:J9:88:ILE:HD13	11:a9:512:TYR:CZ	1.96	0.99
3:J9:111:ASN:O	11:a9:518:ALA:CB	2.10	0.99
5:NA:70:ILE:HG22	3:TA:119:ALA:HB2	1.42	0.99
2:SA:42:ARG:HD2	2:X4:69:PRO:O	1.60	0.99
12:P1:201:CYC:HAA1	4:M1:134:ASN:CB	1.93	0.99
12:Z3:201:CYC:OB	4:M3:162:ASN:HB2	1.61	0.99
4:M3:113:ILE:CD1	4:M3:143:VAL:HG13	1.93	0.99
8:M5:110:ILE:HD11	10:k5:533:LEU:HD11	1.40	0.99
1:d5:83:ARG:NH1	10:j5:379:PHE:CE2	2.30	0.99
8:Q5:11:ALA:CB	1:R5:94:TYR:CZ	2.45	0.99
10:k5:1150:TYR:HE1	11:a9:38:VAL:HG22	1.07	0.99
1:p7:136:VAL:CG1	11:a9:342:ARG:HH12	1.74	0.99
8:u7:30:VAL:HA	1:v7:31:PHE:CD1	1.97	0.99
2:N8:115:GLU:CD	5:Z8:32:PRO:CD	2.36	0.99
5:N9:1:MET:CG	3:R9:119:ALA:HB3	1.87	0.99
11:a9:99:ALA:HB3	11:a9:100:PRO:HD2	1.44	0.99
12:A:201:CYC:HMD1	12:A:201:CYC:HC	1.25	0.99
3:J3:14:LEU:HD21	11:a9:622:ALA:H	1.19	0.99
4:M3:51:ARG:NH2	11:a9:694:ARG:HH12	1.55	0.99
4:M3:232:VAL:CG1	3:V3:111:ASN:O	2.11	0.99
4:M4:138:SER:OG	4:M4:215:GLU:OE2	1.79	0.99
8:W5:16:ARG:HA	1:X5:90:ARG:HH11	0.91	0.99
1:X5:106:GLU:CG	10:j5:504:ASP:O	2.10	0.99
8:a5:29:PHE:CE1	8:a5:99:GLY:HA3	1.98	0.99
8:I7:161:GLN:HG2	1:X7:49:THR:HG21	1.43	0.99
12:N7:201:CYC:HMD1	12:N7:201:CYC:HC	1.25	0.99
4:M8:92:GLU:HG2	4:M8:217:VAL:HG22	1.41	0.99
11:aA:338:VAL:HG22	11:aA:340:PRO:HG3	1.42	0.99
3:BA:26:GLN:O	3:BA:30:LEU:HD13	1.59	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:JA:202:CYC:CGA	11:aA:511:LYS:CD	2.39	0.99
6:M2:39:ARG:NE	8:O5:66:VAL:CG1	2.24	0.99
4:M4:141:GLU:OE2	4:M4:145:LEU:HG	1.59	0.99
1:N5:53:LYS:HZ2	8:O5:120:GLN:CD	1.70	0.99
8:Q5:12:ASP:HA	1:R5:94:TYR:CE2	1.95	0.99
2:N8:115:GLU:CB	5:Z8:32:PRO:CB	2.35	0.99
3:Q8:102:ALA:HB1	3:Q8:166:LYS:CD	1.92	0.99
3:J9:65:ASP:CB	11:a9:354:VAL:CG2	2.39	0.99
3:J9:108:ARG:O	11:a9:517:ALA:HA	1.63	0.99
3:TA:21:GLU:HB3	2:R4:64:PRO:CG	1.93	0.98
3:L2:65:ASP:CG	1:h7:64:ASP:OD2	2.06	0.98
2:A4:63:PHE:O	2:A4:66:LEU:HG	1.63	0.98
2:N4:111:ALA:CB	5:Z4:34:LEU:CD1	2.30	0.98
12:D5:201:CYC:HMD1	12:D5:201:CYC:HC	1.25	0.98
8:U5:29:PHE:CE1	8:U5:99:GLY:HA3	1.98	0.98
6:M6:53:LEU:HD21	8:c7:80:LEU:HG	1.41	0.98
8:i7:47:ARG:HD2	1:j7:18:TYR:CE1	1.96	0.98
8:u7:23:LEU:CD2	1:v7:38:VAL:HG13	1.92	0.98
11:a9:454:LEU:CD2	11:a9:535:ASP:OD2	2.11	0.98
2:K3:15:GLN:HA	11:a9:745:GLY:CA	1.91	0.98
3:F4:108:ARG:HH21	4:M4:9:GLN:HG2	1.02	0.98
12:N5:201:CYC:HMD1	12:N5:201:CYC:HC	1.25	0.98
1:R5:65:LEU:HD12	10:k5:706:PRO:CG	1.92	0.98
9:i5:6:LYS:HB3	9:i5:55:LYS:CA	1.93	0.98
10:j5:362:LYS:CE	10:j5:363:HIS:CD2	2.46	0.98
10:j5:386:ILE:HG23	10:j5:387:VAL:H	0.84	0.98
10:j5:1155:ARG:HB3	10:j5:1155:ARG:HH21	1.26	0.98
10:k5:934:ALA:CB	1:D7:32:THR:HG23	1.87	0.98
12:L7:201:CYC:HMD1	12:L7:201:CYC:HC	1.24	0.98
8:g7:52:LYS:HD2	11:aA:321:ALA:HB2	1.43	0.98
2:A8:63:PHE:O	2:A8:66:LEU:HG	1.63	0.98
3:U8:112:GLY:HA2	4:M8:74:LEU:HD21	1.00	0.98
2:X8:108:TYR:CZ	4:M8:273:ILE:HD12	1.98	0.98
12:H8:201:CYC:OB	11:a9:129:ASN:ND2	1.95	0.98
2:N8:14:SER:HB3	5:Z8:62:ARG:HE	1.22	0.98
3:L9:52:ILE:HD13	3:L9:87:GLU:HB2	0.99	0.98
3:JA:88:ILE:HD13	11:aA:512:TYR:CZ	1.98	0.98
4:MA:274:VAL:C	3:VA:77:ARG:NE	2.22	0.98
5:N3:15:LEU:O	5:N3:73:GLY:N	1.96	0.98
5:N3:62:ARG:HH21	2:Q3:14:SER:CB	1.72	0.98
3:L4:68:ARG:HB3	11:aA:81:ASP:HA	1.41	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G5:25:ARG:HH21	8:S5:25:ARG:HB3	1.28	0.98
12:T5:201:CYC:HMD1	12:T5:201:CYC:HC	1.25	0.98
10:j5:1020:GLU:HG3	1:f7:87:TYR:CE1	1.98	0.98
10:j5:1025:LEU:HD22	10:j5:1035:PHE:HB2	1.45	0.98
10:k5:386:ILE:CD1	10:k5:395:SER:OG	1.82	0.98
10:k5:1009:ALA:HB2	1:p7:87:TYR:CZ	1.97	0.98
10:k5:1155:ARG:HB3	10:k5:1155:ARG:HH21	1.26	0.98
8:I7:29:PHE:CE1	8:I7:99:GLY:HA3	1.98	0.98
12:j7:201:CYC:HMD1	12:j7:201:CYC:HC	1.25	0.98
8:m7:29:PHE:CE1	8:m7:99:GLY:HA3	1.98	0.98
8:q7:79:ALA:CB	11:aA:53:VAL:HG21	1.93	0.98
2:N8:63:PHE:O	2:N8:66:LEU:HG	1.63	0.98
2:N8:111:ALA:HB3	5:Z8:34:LEU:HG	1.42	0.98
5:N9:21:ALA:HB2	5:N9:68:LEU:HD11	1.42	0.98
2:A9:63:PHE:O	2:A9:66:LEU:HG	1.63	0.98
2:QA:116:VAL:HG23	3:TA:80:ALA:HB2	1.45	0.98
6:M2:127:SER:CB	3:F2:84:ARG:NH1	2.18	0.98
3:F4:115:GLU:CG	4:M4:3:VAL:CG2	2.42	0.98
8:G5:122:PRO:O	12:G5:201:CYC:HMC3	1.61	0.98
8:I5:29:PHE:CE1	8:I5:99:GLY:HA3	1.98	0.98
10:k5:362:LYS:CE	10:k5:363:HIS:CD2	2.46	0.98
3:F6:78:ARG:HD3	12:F6:201:CYC:O2D	0.81	0.98
8:C7:29:PHE:CE1	8:C7:99:GLY:HA3	1.98	0.98
8:u7:23:LEU:CD1	1:v7:38:VAL:HG13	1.93	0.98
2:X8:68:GLN:HG2	3:T9:25:ASN:OD1	1.61	0.98
4:M8:235:PHE:CB	12:M8:301:CYC:HAA1	1.93	0.98
12:M8:301:CYC:H3C	3:Y8:127:VAL:HG22	0.98	0.98
12:Z8:301:CYC:HMD1	12:Z8:301:CYC:HC	1.29	0.98
5:NA:15:LEU:O	5:NA:73:GLY:N	1.96	0.98
2:OA:63:PHE:O	2:OA:66:LEU:HG	1.63	0.98
4:M4:144:ARG:NH2	5:Z4:59:ARG:HH12	1.55	0.98
4:M4:210:ILE:CD1	5:Z4:26:LEU:HD22	1.92	0.98
1:Z5:110:ASN:ND2	10:k5:451:LYS:CB	2.22	0.98
10:j5:586:LEU:CD1	10:j5:607:LEU:HD23	1.94	0.98
12:h7:201:CYC:HBB2	9:y7:21:ARG:CD	1.93	0.98
8:u7:17:TYR:CE2	1:v7:93:THR:CB	2.47	0.98
3:U8:114:LYS:CE	4:M8:13:LYS:CE	2.41	0.98
3:L8:71:GLY:HA3	11:a9:82:GLN:HE21	1.26	0.98
3:L8:86:MET:HG2	12:a9:901:CYC:HBC1	1.42	0.98
4:M8:215:GLU:CD	5:Z8:27:ALA:CB	2.29	0.98
4:M1:232:VAL:CG1	3:V1:111:ASN:O	2.11	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N1:15:LEU:O	5:N1:73:GLY:N	1.96	0.98
4:MA:273:ILE:HD13	3:VA:75:PRO:CD	1.94	0.98
3:B4:68:ARG:HH22	3:U4:68:ARG:NH2	1.57	0.98
8:Q5:16:ARG:HA	1:R5:90:ARG:HH11	0.91	0.98
10:k5:277:ILE:O	10:k5:284:PRO:HA	1.63	0.98
8:Q7:13:ALA:N	9:z7:46:LYS:HZ3	1.62	0.98
8:g7:33:GLY:HA3	1:h7:31:PHE:CE2	1.97	0.98
2:X8:69:PRO:O	2:S9:42:ARG:HD2	1.60	0.98
4:M8:139:VAL:HG23	4:M8:216:ASN:HA	1.41	0.98
3:Q8:84:ARG:HH11	5:Z8:29:HIS:CD2	1.80	0.98
4:M9:274:VAL:HG11	2:W9:111:ALA:CB	1.94	0.98
3:LA:14:LEU:HD11	11:aA:358:PRO:HG3	1.02	0.98
4:MA:113:ILE:CD1	4:MA:143:VAL:HG13	1.93	0.98
2:SA:35:THR:O	2:X4:74:TYR:OH	1.79	0.98
12:B3:202:CYC:HMD1	12:B3:202:CYC:HC	1.28	0.98
3:H4:119:ALA:CB	11:aA:266:ASN:HB2	1.93	0.98
4:M4:235:PHE:CB	12:M4:301:CYC:HAA1	1.93	0.98
5:Z4:15:LEU:O	5:Z4:73:GLY:N	1.96	0.98
8:C5:29:PHE:CE1	8:C5:99:GLY:HA3	1.98	0.98
8:e5:29:PHE:CE1	8:e5:99:GLY:HA3	1.98	0.98
10:j5:277:ILE:O	10:j5:284:PRO:HA	1.63	0.98
10:k5:965:GLN:H	1:n7:69:GLY:HA2	0.96	0.98
11:aA:308:LEU:HD21	11:aA:315:LEU:HD12	1.40	0.98
3:BA:116:THR:OG1	4:MA:38:PRO:O	1.80	0.98
3:HA:126:SER:HB3	12:HA:202:CYC:HMC3	0.99	0.98
12:JA:202:CYC:HBA2	11:aA:511:LYS:HD3	1.44	0.98
3:S4:82:CYS:CA	12:S4:202:CYC:HAC2	1.92	0.98
2:E4:1:MET:H3	4:M4:10:ARG:NH2	1.46	0.98
4:M4:104:ALA:CA	2:P4:14:SER:CB	2.27	0.98
4:M4:201:ASP:OD2	5:Z4:52:ARG:NH1	1.96	0.98
1:L5:82:ILE:CD1	8:G5:118:SER:HB2	1.93	0.98
1:b5:114:GLU:HB3	10:k5:491:THR:CG2	1.94	0.98
10:j5:965:GLN:CA	1:t7:69:GLY:HA2	1.92	0.98
10:k5:929:PRO:CG	1:D7:147:LYS:HE2	1.94	0.98
8:o7:30:VAL:HA	1:p7:31:PHE:CD1	1.97	0.98
1:v7:62:TYR:CB	11:aA:602:PRO:CD	2.27	0.98
2:N8:112:GLY:N	5:Z8:34:LEU:HA	1.76	0.98
3:Q8:85:ASP:HB2	12:Z8:301:CYC:HBC1	0.99	0.98
4:MA:267:LEU:HD12	3:VA:119:ALA:O	1.64	0.98
5:NA:62:ARG:NE	2:SA:14:SER:HA	1.78	0.98
3:H3:68:ARG:CD	11:a9:615:ARG:O	2.11	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q4:104:VAL:HG23	3:Q4:105:LEU:HD12	1.43	0.98
8:U5:29:PHE:HE1	8:U5:99:GLY:HA3	1.29	0.98
10:j5:542:GLN:HE21	10:j5:560:VAL:HG13	1.28	0.98
10:j5:974:LEU:CD2	1:v7:1:MET:N	2.23	0.98
10:k5:275:THR:HG21	10:k5:286:VAL:HG13	1.41	0.98
10:k5:1034:GLU:OE1	10:k5:1037:ARG:NH2	1.96	0.98
12:k5:1202:CYC:HMD1	12:k5:1202:CYC:HC	1.25	0.98
8:I7:161:GLN:CG	1:X7:49:THR:CG2	2.42	0.98
8:o7:23:LEU:CD1	1:p7:38:VAL:HG13	1.93	0.98
8:s7:29:PHE:CE1	8:s7:99:GLY:HA3	1.98	0.98
3:L9:14:LEU:HD11	11:a9:358:PRO:HG3	1.01	0.98
5:N9:15:LEU:O	5:N9:73:GLY:N	1.96	0.98
12:LA:202:CYC:O1D	11:aA:538:ARG:HB3	1.62	0.98
2:SA:42:ARG:NE	2:X4:69:PRO:HD2	1.77	0.98
3:TA:25:ASN:OD1	2:X4:68:GLN:HG2	1.61	0.98
2:G3:111:ALA:HB3	3:L3:77:ARG:CG	1.94	0.98
2:U3:47:ASN:HB2	2:Q9:74:TYR:OH	1.57	0.98
12:H4:201:CYC:HBB3	11:aA:259:ALA:HA	1.46	0.98
8:A5:118:SER:HB2	1:F5:82:ILE:CD1	1.93	0.98
1:R5:124:ALA:HB3	1:Z5:64:ASP:CG	1.87	0.98
9:i5:14:LEU:HD12	9:i5:15:LYS:N	1.78	0.98
10:j5:136:VAL:CB	10:j5:137:PRO:CD	2.39	0.98
10:j5:612:ILE:H	10:j5:612:ILE:HD12	1.28	0.98
10:k5:974:LEU:CG	1:p7:1:MET:H1	1.75	0.98
10:k5:978:LEU:HD22	1:p7:107:ARG:HH21	1.23	0.98
1:B7:54:GLU:OE2	11:a9:563:PHE:HB2	1.62	0.98
8:a7:29:PHE:CE1	8:a7:99:GLY:HA3	1.98	0.98
4:M9:263:PRO:C	3:V9:119:ALA:HB1	1.89	0.98
11:aA:798:SER:HG	12:aA:901:CYC:HMA1	1.16	0.98
4:M1:113:ILE:CD1	4:M1:143:VAL:HG13	1.93	0.98
5:NA:1:MET:CG	3:RA:119:ALA:HB3	1.87	0.97
2:K3:14:SER:CB	11:a9:746:TYR:HB3	1.92	0.97
6:M2:28:ASN:HB2	8:O5:80:LEU:CG	1.92	0.97
6:M2:127:SER:CB	3:F2:84:ARG:NH2	2.20	0.97
4:M3:51:ARG:NH2	11:a9:694:ARG:HH22	1.57	0.97
3:L4:68:ARG:HD2	11:aA:81:ASP:HA	1.43	0.97
8:G5:6:LYS:NZ	8:S5:21:GLY:H	1.61	0.97
8:O7:29:PHE:HE1	8:O7:99:GLY:HA3	1.29	0.97
8:g7:29:PHE:CE1	8:g7:99:GLY:HA3	1.98	0.97
8:U7:29:PHE:CE1	8:U7:99:GLY:HA3	1.98	0.97
8:c7:43:LEU:HD11	8:c7:141:LEU:HD11	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:o7:17:TYR:CE2	1:p7:93:THR:CB	2.47	0.97
3:H8:119:ALA:CB	11:a9:266:ASN:HB2	1.94	0.97
4:M8:232:VAL:CG2	4:M8:235:PHE:HE2	1.76	0.97
3:L9:52:ILE:HD13	3:L9:87:GLU:CB	1.85	0.97
4:M9:160:THR:N	3:V9:108:ARG:HG2	1.78	0.97
3:L2:77:ARG:NH2	6:M2:70:GLU:OE2	1.93	0.97
3:B4:108:ARG:CA	4:M4:61:ASN:HA	1.93	0.97
3:H4:84:ARG:CD	11:aA:131:TYR:CD1	2.27	0.97
8:G5:121:THR:HG23	12:G5:201:CYC:C4C	1.94	0.97
12:X5:201:CYC:HBB2	10:j5:520:ARG:NE	1.78	0.97
9:z5:14:LEU:HD12	9:z5:15:LYS:N	1.78	0.97
10:k5:970:GLY:HA3	1:n7:77:ARG:HH21	1.28	0.97
10:k5:1009:ALA:CB	1:p7:87:TYR:HE1	1.77	0.97
3:B8:107:ASP:O	4:M8:61:ASN:HA	1.63	0.97
3:B8:119:ALA:HB1	4:M8:52:LEU:HD11	1.40	0.97
8:o7:37:LEU:HD22	1:p7:24:LEU:HD22	1.00	0.97
3:F8:108:ARG:O	4:M8:6:THR:HG21	1.64	0.97
4:M8:225:LYS:CE	3:Y8:81:ALA:HB2	1.93	0.97
3:Q8:84:ARG:CD	5:Z8:31:TRP:CD1	2.47	0.97
4:M9:267:LEU:HD12	3:V9:119:ALA:O	1.64	0.97
11:aA:454:LEU:CD2	11:aA:535:ASP:OD2	2.11	0.97
11:aA:643:LEU:HD21	11:aA:689:VAL:CG2	1.94	0.97
1:A:131:GLN:CG	1:R5:17:LYS:HZ3	1.51	0.97
2:G2:113:LEU:HA	3:L2:76:ASN:HD21	1.09	0.97
2:A3:63:PHE:O	2:A3:66:LEU:HG	1.63	0.97
3:D4:14:LEU:HD13	3:Y4:125:ARG:CD	1.92	0.97
3:F4:115:GLU:CG	4:M4:3:VAL:HG11	1.88	0.97
8:O5:29:PHE:HE1	8:O5:99:GLY:HA3	1.29	0.97
10:k5:931:VAL:HG22	1:D7:30:TYR:N	1.77	0.97
8:i7:36:ARG:NH2	8:i7:152:TYR:OH	1.97	0.97
9:y7:3:ARG:NE	9:y7:67:VAL:HG13	1.79	0.97
3:O8:104:VAL:O	5:Z8:61:LYS:CE	2.11	0.97
4:M9:273:ILE:HD13	3:V9:75:PRO:CD	1.94	0.97
3:H9:59:LEU:HD21	12:H9:202:CYC:HBC2	1.46	0.97
12:J9:202:CYC:HBA2	11:a9:511:LYS:HD3	1.44	0.97
11:a9:283:GLN:CB	11:a9:284:PRO:HD3	1.91	0.97
3:JA:108:ARG:O	11:aA:517:ALA:HA	1.64	0.97
4:MA:263:PRO:C	3:VA:119:ALA:HB1	1.89	0.97
3:H4:84:ARG:CD	11:aA:131:TYR:CE2	2.47	0.97
3:Q4:120:LEU:CD1	5:Z4:40:SER:N	2.25	0.97
8:O5:29:PHE:CE1	8:O5:99:GLY:HA3	1.98	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z4:26:LEU:CD2	5:Z4:63:ASN:HB3	1.95	0.97
6:M6:271:VAL:HG21	1:d7:127:VAL:HB	1.44	0.97
10:k5:1153:VAL:HG21	1:p7:125:ALA:CB	1.88	0.97
9:x7:3:ARG:NE	9:x7:67:VAL:HG13	1.79	0.97
2:R8:64:PRO:CG	3:T9:21:GLU:HB3	1.93	0.97
5:Z8:15:LEU:O	5:Z8:73:GLY:N	1.96	0.97
3:J9:65:ASP:HB3	11:a9:354:VAL:HG22	1.46	0.97
11:aA:708:HIS:HA	3:L1:108:ARG:HE	1.28	0.97
2:QA:119:THR:CB	3:TA:83:LEU:CD1	2.31	0.97
2:A1:63:PHE:O	2:A1:66:LEU:HG	1.63	0.97
4:M4:128:ALA:C	4:M4:142:PHE:HZ	1.69	0.97
4:M4:232:VAL:CG2	4:M4:235:PHE:HE2	1.76	0.97
1:N5:53:LYS:NZ	8:O5:120:GLN:CG	2.28	0.97
8:G5:126:VAL:CG2	12:G5:201:CYC:H3C	1.93	0.97
10:j5:938:GLN:OE1	1:J7:28:LYS:HG2	1.63	0.97
10:k5:930:LEU:HD13	1:D7:33:THR:HB	1.44	0.97
2:A6:63:PHE:O	2:A6:66:LEU:HG	1.63	0.97
8:O7:29:PHE:CE1	8:O7:99:GLY:HA3	1.98	0.97
12:d7:201:CYC:HMD1	12:d7:201:CYC:HC	1.25	0.97
3:Q8:87:GLU:OE1	5:Z8:31:TRP:HH2	1.14	0.97
4:M9:65:ARG:HD2	3:F9:111:ASN:ND2	1.80	0.97
5:Z8:37:HIS:CD2	12:Z8:301:CYC:C1B	2.47	0.97
2:G1:111:ALA:HB3	3:L1:77:ARG:CG	1.94	0.97
11:a9:585:GLU:O	11:a9:588:VAL:O	1.81	0.97
4:MA:160:THR:N	3:VA:108:ARG:HG2	1.78	0.97
2:O1:63:PHE:O	2:O1:66:LEU:HG	1.63	0.97
3:B4:85:ASP:CB	12:B4:202:CYC:H3C	1.94	0.97
3:U4:115:GLU:OE2	4:M4:70:SER:HB2	1.63	0.97
3:F4:107:ASP:CA	4:M4:8:SER:N	2.26	0.97
4:M4:144:ARG:HH22	5:Z4:59:ARG:HH12	1.03	0.97
4:M4:214:GLY:HA2	5:Z4:28:HIS:CD2	1.98	0.97
3:Q4:72:ASN:O	12:Z4:301:CYC:CMD	2.13	0.97
8:A5:126:VAL:CG2	12:A5:201:CYC:H3C	1.93	0.97
10:j5:1074:GLN:OE1	1:r7:119:LEU:HD21	1.65	0.97
8:O7:25:ARG:HH21	8:E7:25:ARG:HB3	0.82	0.97
1:h7:75:THR:HG22	8:i7:115:MET:CE	1.94	0.97
12:b7:201:CYC:HC	12:b7:201:CYC:HMD1	1.25	0.97
12:v7:201:CYC:HMD1	12:v7:201:CYC:HC	1.25	0.97
4:M8:113:ILE:CD1	4:M8:143:VAL:HG13	1.93	0.97
4:M8:160:THR:CG2	4:M8:257:GLN:CB	2.42	0.97
4:M9:258:LYS:HG2	3:V9:111:ASN:HD21	1.27	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N9:54:LEU:HD13	3:T9:84:ARG:NH2	1.80	0.97
2:O9:63:PHE:O	2:O9:66:LEU:HG	1.63	0.97
3:J9:116:THR:HG23	11:a9:521:PHE:CD2	2.00	0.97
11:a9:643:LEU:HD21	11:a9:689:VAL:CG2	1.95	0.97
11:aA:31:SER:OG	11:aA:34:ILE:CB	2.13	0.97
11:aA:707:PHE:HZ	2:K1:13:ASP:OD2	1.33	0.97
4:M1:160:THR:CG2	4:M1:257:GLN:CB	2.42	0.97
3:H3:78:ARG:CZ	11:a9:623:ASP:HB2	1.95	0.97
3:J3:77:ARG:CG	2:K3:111:ALA:HB3	1.94	0.97
5:N3:31:TRP:HB3	5:N3:32:PRO:HD2	1.47	0.97
12:B1:202:CYC:HMD1	12:B1:202:CYC:HC	1.28	0.97
3:L4:68:ARG:HG3	11:aA:81:ASP:N	1.78	0.97
8:O5:76:LYS:HD2	8:O5:77:MET:HE1	1.44	0.97
10:j5:743:VAL:HG12	12:J7:201:CYC:O2D	1.64	0.97
10:j5:1025:LEU:HD23	10:j5:1030:ILE:HG23	1.43	0.97
10:j5:1034:GLU:OE1	10:j5:1037:ARG:NH2	1.96	0.97
8:g7:107:ILE:HG12	1:h7:13:ASP:OD2	1.63	0.97
8:i7:90:ARG:NH1	1:j7:13:ASP:OD1	1.97	0.97
8:c7:36:ARG:NH2	8:c7:152:TYR:OH	1.97	0.97
8:o7:17:TYR:HE2	1:p7:93:THR:CB	1.76	0.97
8:q7:75:GLU:C	11:aA:53:VAL:HG11	1.88	0.97
3:F8:108:ARG:C	4:M8:6:THR:CG2	2.34	0.97
3:L8:59:LEU:CD2	12:a9:901:CYC:HMC3	1.94	0.97
3:L8:113:LEU:CD2	12:a9:901:CYC:HMB3	1.95	0.97
3:O8:108:ARG:HB2	5:Z8:61:LYS:HD3	1.00	0.97
3:O8:111:ASN:OD1	5:Z8:68:LEU:CA	2.12	0.97
4:M9:113:ILE:CD1	4:M9:143:VAL:HG13	1.93	0.97
11:aA:280:ASP:CG	11:aA:281:PRO:HD3	1.88	0.97
11:aA:322:ALA:O	11:aA:326:ILE:HG13	1.64	0.97
11:aA:666:ASN:CB	12:aA:901:CYC:C4B	2.41	0.97
5:N1:22:LEU:CD2	5:N1:26:LEU:CG	2.38	0.97
3:FA:111:ASN:ND2	4:MA:65:ARG:HD2	1.80	0.97
3:HA:108:ARG:HH12	11:aA:448:ASN:HD21	1.13	0.97
4:MA:160:THR:CG2	4:MA:257:GLN:CB	2.42	0.97
2:O3:63:PHE:O	2:O3:66:LEU:HG	1.63	0.97
1:d5:28:LYS:CE	1:n7:143:PRO:CG	2.42	0.97
8:Q5:17:TYR:CZ	1:R5:44:ILE:HG22	1.98	0.97
1:b5:27:LEU:HD13	10:k5:172:LEU:HD22	1.47	0.97
1:b5:34:GLY:HA3	10:k5:47:PHE:HD2	1.28	0.97
10:j5:1016:LEU:CD1	10:j5:1017:ARG:N	2.27	0.97
10:j5:1076:GLU:C	10:j5:1078:SER:H	1.51	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H7:140:LEU:HD11	11:aA:561:ALA:HB1	1.01	0.97
8:i7:94:TYR:CE2	1:j7:9:ILE:CG2	2.47	0.97
2:X8:69:PRO:HD2	2:S9:42:ARG:NE	1.77	0.97
4:M9:274:VAL:CG1	3:V9:77:ARG:NE	2.27	0.97
5:N9:31:TRP:HB3	5:N9:32:PRO:HD2	1.47	0.97
1:A:110:ASN:CG	10:k5:462:TYR:CZ	2.42	0.97
12:LA:202:CYC:HBA2	11:aA:536:THR:HG21	1.46	0.97
4:MA:1:MET:CA	11:aA:422:SER:O	2.00	0.97
6:M2:34:ARG:HD2	8:O5:52:LYS:HB2	1.45	0.97
2:A4:60:TYR:HB3	2:A4:67:THR:HG23	1.47	0.97
3:B4:108:ARG:O	12:B4:202:CYC:HBB2	1.63	0.97
4:M3:134:ASN:CB	12:P3:201:CYC:HAA1	1.93	0.97
3:U4:108:ARG:HA	4:M4:246:ALA:HB2	1.25	0.97
3:F4:84:ARG:HD3	11:aA:139:ILE:HG22	1.12	0.97
4:M4:136:SER:HB3	5:Z4:2:SER:HB2	1.47	0.97
12:O4:201:CYC:HMA2	5:Z4:53:LEU:HD13	1.44	0.97
10:k5:586:LEU:CD1	10:k5:607:LEU:HD23	1.94	0.97
8:a7:107:ILE:HG12	1:b7:13:ASP:OD2	1.63	0.97
3:U8:115:GLU:CB	4:M8:74:LEU:HD11	1.69	0.97
2:X8:69:PRO:CB	2:S9:39:GLU:HA	1.93	0.97
3:F8:115:GLU:CG	4:M8:3:VAL:HG13	1.95	0.97
11:a9:338:VAL:HG22	11:a9:340:PRO:CD	1.95	0.97
11:aA:99:ALA:HB3	11:aA:100:PRO:HD2	1.44	0.97
3:LA:51:ILE:HG21	3:LA:90:LEU:HD12	1.47	0.97
4:M3:160:THR:CG2	4:M3:257:GLN:CB	2.42	0.97
8:A5:12:ASP:OD1	1:B5:91:TYR:CZ	2.18	0.97
1:T5:53:LYS:NZ	8:U5:120:GLN:CG	2.28	0.97
1:b5:5:ILE:CD1	10:k5:46:PHE:HZ	1.77	0.97
10:j5:989:THR:HG22	8:g7:106:GLU:OE2	1.64	0.97
10:k5:612:ILE:H	10:k5:612:ILE:HD12	1.28	0.97
10:k5:930:LEU:O	1:D7:33:THR:HG21	1.62	0.97
10:k5:989:THR:CG2	8:a7:106:GLU:OE2	2.13	0.97
3:L9:38:LEU:HD22	2:K9:24:LEU:HD22	1.47	0.97
11:aA:338:VAL:HG22	11:aA:340:PRO:CD	1.95	0.97
11:aA:615:ARG:O	3:H1:68:ARG:CD	2.13	0.97
2:A2:63:PHE:O	2:A2:66:LEU:HG	1.63	0.97
3:F4:107:ASP:CB	4:M4:8:SER:N	2.26	0.96
4:M4:104:ALA:HA	2:P4:14:SER:HB3	1.43	0.96
2:N4:63:PHE:O	2:N4:66:LEU:HG	1.63	0.96
1:N5:53:LYS:HZ2	8:O5:120:GLN:HG3	1.27	0.96
8:M7:49:ARG:HH12	3:H9:119:ALA:CA	1.77	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W7:13:ALA:CA	9:w7:46:LYS:NZ	2.21	0.96
3:Q8:72:ASN:OD1	12:Z8:301:CYC:HMD1	1.63	0.96
11:a9:55:ASP:CB	11:a9:612:TYR:CB	2.22	0.96
2:EA:2:LYS:HZ1	2:IA:17:ARG:HH12	1.11	0.96
3:HA:84:ARG:NH2	11:aA:474:PHE:CE2	2.33	0.96
12:J3:202:CYC:CMA	11:a9:798:SER:HG	1.72	0.96
3:B3:88:ILE:HG21	12:B3:202:CYC:C2B	1.93	0.96
5:N3:22:LEU:CD2	5:N3:26:LEU:CG	2.38	0.96
8:M5:66:VAL:HG11	8:K7:68:PRO:HG3	0.99	0.96
8:G5:71:ASN:OD1	12:G5:201:CYC:HMD3	1.63	0.96
12:d5:201:CYC:HMD1	12:d5:201:CYC:HC	1.25	0.96
1:T5:110:ASN:ND2	10:j5:692:LEU:CB	2.02	0.96
10:k5:586:LEU:HD11	10:k5:607:LEU:HD23	1.47	0.96
10:k5:930:LEU:HB3	1:D7:33:THR:CG2	1.95	0.96
10:k5:974:LEU:HD23	1:p7:1:MET:H3	1.26	0.96
8:k7:66:VAL:HG12	11:a9:65:LEU:CD2	1.95	0.96
8:q7:79:ALA:HB2	11:aA:53:VAL:CG2	1.95	0.96
12:M8:302:CYC:HMC3	3:S8:72:ASN:HD21	0.90	0.96
4:M9:160:THR:CG2	4:M9:257:GLN:CB	2.42	0.96
11:a9:92:LYS:HE3	11:a9:92:LYS:N	1.80	0.96
11:a9:245:ALA:CB	12:a9:901:CYC:CBB	2.41	0.96
11:aA:668:TYR:HE2	11:aA:670:LEU:HD23	1.26	0.96
5:N1:31:TRP:HB3	5:N1:32:PRO:HD2	1.47	0.96
1:Z:161:SER:HB2	1:X5:14:VAL:HG21	1.19	0.96
3:FA:150:ARG:HA	3:F9:150:ARG:HE	1.13	0.96
5:NA:22:LEU:HD21	5:NA:26:LEU:HD11	1.47	0.96
5:NA:31:TRP:HB3	5:NA:32:PRO:HD2	1.47	0.96
2:O1:60:TYR:HB3	2:O1:67:THR:HG23	1.47	0.96
4:M4:205:ASP:HB3	5:Z4:59:ARG:NE	1.79	0.96
8:G5:12:ASP:OD1	1:H5:91:TYR:CZ	2.18	0.96
10:j5:631:HIS:CD2	10:j5:664:MET:HE1	2.01	0.96
10:k5:631:HIS:CD2	10:k5:664:MET:HE1	2.01	0.96
10:k5:1008:PHE:CZ	1:p7:83:ARG:NH1	2.33	0.96
3:F6:82:CYS:HB2	12:F6:201:CYC:CMD	1.95	0.96
8:i7:47:ARG:CG	1:j7:18:TYR:CZ	2.47	0.96
3:B8:68:ARG:HH22	3:U8:68:ARG:NH2	1.57	0.96
3:B8:116:THR:CG2	4:M8:53:LEU:HA	1.94	0.96
8:o7:37:LEU:HD12	1:p7:28:LYS:HE3	1.45	0.96
8:u7:23:LEU:CD2	1:v7:38:VAL:HA	1.95	0.96
2:N8:60:TYR:HB3	2:N8:67:THR:HG23	1.47	0.96
5:Z8:22:LEU:HD21	5:Z8:26:LEU:HD11	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z8:29:HIS:CD2	5:Z8:36:THR:HG23	2.00	0.96
1:A:161:SER:HB2	1:R5:14:VAL:HG21	1.38	0.96
3:J3:84:ARG:C	11:a9:668:TYR:HH	1.69	0.96
5:N3:22:LEU:HD21	5:N3:26:LEU:HD11	1.47	0.96
4:M4:27:HIS:O	11:aA:227:GLY:HA3	1.65	0.96
4:M4:160:THR:CG2	4:M4:257:GLN:CB	2.42	0.96
3:O4:95:TYR:CD2	3:O4:108:ARG:NH2	2.33	0.96
1:B5:143:PRO:HG3	8:W7:41:GLN:HE22	1.26	0.96
8:U5:76:LYS:CD	8:U5:77:MET:HE2	1.91	0.96
8:W5:17:TYR:CZ	1:X5:44:ILE:HG22	1.98	0.96
8:a5:29:PHE:HE1	8:a5:99:GLY:HA3	1.29	0.96
10:k5:1016:LEU:CD1	10:k5:1017:ARG:N	2.27	0.96
3:B8:82:CYS:O	12:B8:202:CYC:HAC2	1.62	0.96
4:M8:87:ILE:HD12	3:Y8:77:ARG:CG	1.93	0.96
2:I9:31:PHE:CE2	3:J9:31:VAL:CA	2.45	0.96
11:a9:379:LEU:HD13	11:a9:391:VAL:HG21	1.45	0.96
4:MA:162:ASN:N	12:VA:201:CYC:HBB3	1.80	0.96
3:F4:108:ARG:CZ	4:M4:9:GLN:HE21	1.77	0.96
1:N5:110:ASN:ND2	10:k5:692:LEU:O	1.98	0.96
8:A5:71:ASN:OD1	12:A5:201:CYC:HMD3	1.63	0.96
8:W5:11:ALA:CB	1:X5:94:TYR:CZ	2.45	0.96
8:m7:102:THR:HB	8:m7:103:PRO:HD3	1.48	0.96
8:u7:17:TYR:HE2	1:v7:93:THR:CB	1.76	0.96
3:O8:95:TYR:CD2	3:O8:108:ARG:NH2	2.33	0.96
3:H9:123:PRO:HG2	12:H9:202:CYC:HMC3	1.46	0.96
11:aA:800:THR:HG22	12:aA:901:CYC:CAA	1.92	0.96
3:D3:68:ARG:NH2	3:X3:68:ARG:NH2	2.14	0.96
2:O3:60:TYR:HB3	2:O3:67:THR:HG23	1.47	0.96
2:U3:141:GLN:O	2:Q9:76:ASP:CA	2.09	0.96
12:B1:202:CYC:CAA	11:aA:684:ASN:CG	2.38	0.96
4:M4:215:GLU:CD	12:Z4:301:CYC:CAB	2.39	0.96
12:J6:202:CYC:O2A	6:M6:185:PHE:HD2	1.49	0.96
6:M6:118:GLU:OE1	2:C6:114:ARG:NH1	1.99	0.96
10:k5:1009:ALA:CB	1:p7:87:TYR:CE1	2.48	0.96
8:O7:52:LYS:HE3	11:aA:29:ARG:HH12	0.81	0.96
8:i7:37:LEU:CD1	1:j7:31:PHE:CE2	2.47	0.96
8:i7:95:GLY:C	8:i7:152:TYR:CE2	2.44	0.96
3:U8:120:LEU:HD21	12:U8:201:CYC:HBD1	0.99	0.96
12:O8:201:CYC:HBA2	5:Z8:50:LEU:HD13	1.45	0.96
4:M9:76:ALA:HB1	3:D9:112:GLY:H	1.26	0.96
5:N9:3:VAL:HG11	3:R9:115:GLU:HB2	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:280:ASP:CG	11:a9:281:PRO:HD3	1.88	0.96
11:a9:312:ASP:CB	11:a9:315:LEU:CD1	2.39	0.96
11:aA:107:ARG:HG3	11:aA:108:PRO:HD2	1.46	0.96
11:aA:800:THR:HG21	12:aA:901:CYC:HAA1	0.96	0.96
5:NA:53:LEU:CD1	12:TA:301:CYC:HAA1	1.96	0.96
3:J3:77:ARG:NH2	2:K3:107:ASP:CA	2.25	0.96
3:Z3:108:ARG:CZ	4:M3:158:PHE:CD1	2.39	0.96
3:L4:68:ARG:HB2	11:aA:82:GLN:H	0.79	0.96
8:A5:122:PRO:HD2	12:A5:201:CYC:OC	1.66	0.96
1:J5:39:ARG:O	1:J5:41:ALA:N	1.98	0.96
8:W5:12:ASP:HA	1:X5:94:TYR:CE2	1.95	0.96
10:j5:1016:LEU:CD1	10:j5:1017:ARG:H	1.79	0.96
8:I7:102:THR:HB	8:I7:103:PRO:HD3	1.48	0.96
8:i7:101:VAL:HG11	8:i7:155:TYR:CE1	2.00	0.96
12:j7:201:CYC:HBB2	9:y7:42:GLN:OE1	1.65	0.96
2:N8:14:SER:CB	5:Z8:62:ARG:CZ	2.33	0.96
12:J9:202:CYC:NB	11:a9:512:TYR:CB	2.14	0.96
11:a9:107:ARG:HG3	11:a9:108:PRO:HD2	1.46	0.96
4:MA:274:VAL:HG11	2:WA:111:ALA:CB	1.94	0.96
2:G2:16:GLY:HA3	6:M2:104:ARG:NH1	1.80	0.96
12:J2:202:CYC:O2A	6:M2:185:PHE:HD2	1.49	0.96
3:H4:84:ARG:HD3	11:aA:131:TYR:CE2	2.00	0.96
8:C5:29:PHE:HE1	8:C5:99:GLY:HA3	1.29	0.96
1:f5:18:TYR:CE1	10:j5:165:ARG:CD	2.48	0.96
9:z5:6:LYS:HB3	9:z5:55:LYS:CA	1.93	0.96
10:j5:929:PRO:HG3	1:J7:147:LYS:HE2	1.46	0.96
10:j5:964:GLY:CA	1:t7:69:GLY:HA3	1.96	0.96
2:A9:60:TYR:HB3	2:A9:67:THR:HG23	1.47	0.96
11:a9:322:ALA:O	11:a9:326:ILE:HG13	1.65	0.96
11:aA:821:ARG:NH2	3:L1:120:LEU:O	1.98	0.96
3:TA:32:LYS:HE3	2:X4:60:TYR:CE2	2.00	0.96
12:H4:201:CYC:OB	11:aA:129:ASN:ND2	1.97	0.96
4:M4:210:ILE:HD13	5:Z4:26:LEU:CD2	1.96	0.96
4:M4:226:SER:OG	3:Y4:88:ILE:CG2	2.14	0.96
1:D5:39:ARG:O	1:D5:41:ALA:N	1.98	0.96
8:U5:76:LYS:HD2	8:U5:77:MET:HE1	1.44	0.96
6:M6:127:SER:CB	3:F6:84:ARG:NH1	2.18	0.96
10:j5:825:ASN:HB3	12:H7:201:CYC:OB	1.65	0.96
10:j5:1118:THR:HA	12:j5:1202:CYC:HBA1	1.46	0.96
10:k5:990:ARG:HH21	10:k5:1026:LYS:NZ	1.62	0.96
8:Q7:25:ARG:HD3	8:C7:25:ARG:HH22	1.28	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:U7:102:THR:HB	8:U7:103:PRO:HD3	1.48	0.96
8:c7:101:VAL:HG11	8:c7:155:TYR:CE1	2.00	0.96
3:O8:108:ARG:CA	5:Z8:61:LYS:HD3	1.96	0.96
11:a9:681:LEU:HA	11:a9:684:ASN:HD21	1.31	0.96
11:a9:818:ARG:HH11	11:a9:818:ARG:HG3	1.30	0.96
11:aA:92:LYS:HE3	11:aA:92:LYS:N	1.80	0.96
5:N1:22:LEU:HD21	5:N1:26:LEU:HD11	1.47	0.96
3:JA:70:GLY:HA3	11:aA:356:ALA:HB1	1.46	0.96
3:JA:116:THR:HG23	11:aA:521:PHE:CD2	2.01	0.96
3:Q4:97:LEU:HA	3:Q4:163:TYR:HE2	1.27	0.96
1:L5:75:THR:HB	8:G5:112:VAL:HA	1.48	0.96
8:M5:20:PRO:CB	8:A5:100:ASP:OD1	2.14	0.96
8:C5:27:LYS:CA	8:C5:30:VAL:HG22	1.95	0.96
12:F5:201:CYC:O2A	10:k5:591:ILE:HG13	1.65	0.96
6:M6:104:ARG:NH1	2:G6:16:GLY:HA3	1.80	0.96
10:j5:889:LEU:HA	12:J7:201:CYC:OB	1.64	0.96
10:k5:386:ILE:HG21	10:k5:395:SER:H	0.91	0.96
10:k5:978:LEU:CD1	1:p7:107:ARG:NH2	2.29	0.96
4:M9:162:ASN:N	12:V9:201:CYC:HBB3	1.80	0.96
4:M9:273:ILE:HD11	3:V9:75:PRO:CD	1.93	0.96
4:M9:274:VAL:HG12	3:V9:77:ARG:NE	1.80	0.96
11:a9:67:GLN:O	11:a9:68:THR:CG2	2.14	0.96
11:aA:643:LEU:HD12	11:aA:643:LEU:H	1.31	0.96
11:aA:668:TYR:CE2	11:aA:670:LEU:HD23	2.00	0.96
11:aA:742:GLN:HG2	3:L1:88:ILE:HD12	0.99	0.96
2:I4:14:SER:HA	11:aA:170:PHE:HZ	1.29	0.95
1:d5:127:VAL:CG1	10:j5:698:GLY:CA	2.43	0.95
8:S5:68:PRO:CB	8:a5:59:PHE:CB	2.40	0.95
8:g7:29:PHE:HE1	8:g7:99:GLY:HA3	1.29	0.95
8:i7:20:PRO:CD	8:s7:155:TYR:CD1	2.49	0.95
8:c7:95:GLY:C	8:c7:152:TYR:CE2	2.44	0.95
3:F8:115:GLU:C	4:M8:3:VAL:HG11	1.91	0.95
2:K8:15:GLN:O	11:a9:241:VAL:HG11	1.59	0.95
2:N8:115:GLU:HB2	5:Z8:32:PRO:CA	1.96	0.95
2:N8:115:GLU:HB2	5:Z8:32:PRO:C	1.90	0.95
5:N9:1:MET:CB	5:N9:3:VAL:HG23	1.96	0.95
11:aA:312:ASP:CB	11:aA:315:LEU:CD1	2.39	0.95
2:KA:24:LEU:HD22	3:LA:38:LEU:HD22	1.47	0.95
2:KA:25:GLN:O	2:KA:26:ALA:C	1.98	0.95
3:LA:52:ILE:HD13	3:LA:87:GLU:HB2	0.99	0.95
5:NA:54:LEU:HD13	3:TA:84:ARG:NH2	1.80	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QA:33:ARG:HG2	2:UA:25:GLN:HG3	1.48	0.95
10:j5:990:ARG:HH21	10:j5:1026:LYS:NZ	1.62	0.95
4:M9:188:LEU:HD22	12:V9:201:CYC:HB	1.30	0.95
2:O9:60:TYR:HB3	2:O9:67:THR:HG23	1.47	0.95
11:aA:67:GLN:O	11:aA:68:THR:HG22	1.66	0.95
11:aA:586:LEU:O	11:aA:590:PRO:HG2	1.66	0.95
3:FA:151:GLY:H	3:F9:150:ARG:CZ	1.77	0.95
5:NA:3:VAL:HG11	3:RA:115:GLU:HB2	1.47	0.95
6:M2:57:GLU:OE1	8:i7:76:LYS:HE3	1.62	0.95
3:L3:120:LEU:O	11:a9:821:ARG:NH2	1.99	0.95
2:N4:60:TYR:HB3	2:N4:67:THR:HG23	1.47	0.95
8:E5:80:LEU:HD12	12:E5:201:CYC:HAD2	1.44	0.95
1:b5:18:TYR:CE1	10:k5:165:ARG:HB2	2.00	0.95
10:k5:1055:SER:OG	12:k5:1203:CYC:HBB2	0.78	0.95
8:i7:39:ILE:HD11	8:i7:148:GLU:CB	1.95	0.95
8:o7:23:LEU:CD2	1:p7:38:VAL:HA	1.95	0.95
11:a9:312:ASP:CA	11:a9:315:LEU:H	1.79	0.95
11:a9:636:ALA:O	11:a9:774:PHE:HD2	1.49	0.95
4:MA:274:VAL:CB	3:VA:77:ARG:HD3	1.97	0.95
1:N5:53:LYS:HZ2	8:O5:120:GLN:NE2	1.57	0.95
12:H5:201:CYC:HBB2	9:i5:21:ARG:HA	1.47	0.95
12:P5:201:CYC:O2A	10:k5:649:PHE:HD2	1.49	0.95
10:j5:1016:LEU:HD12	10:j5:1017:ARG:H	1.15	0.95
8:C7:102:THR:HB	8:C7:103:PRO:HD3	1.48	0.95
8:M7:45:GLU:OE2	3:H9:124:THR:OG1	1.84	0.95
1:X7:118:SER:O	9:w7:61:GLN:CD	2.10	0.95
8:q7:66:VAL:O	11:aA:65:LEU:CD2	2.14	0.95
8:u7:23:LEU:CB	1:v7:38:VAL:HG11	1.74	0.95
3:U8:115:GLU:OE1	4:M8:74:LEU:CD1	2.13	0.95
3:L8:59:LEU:HD21	12:a9:901:CYC:CMC	1.94	0.95
4:M8:214:GLY:HA2	5:Z8:28:HIS:CE1	1.86	0.95
4:M8:267:LEU:O	4:M8:269:SER:O	1.83	0.95
3:Q8:89:ILE:CG2	3:Q8:92:TYR:CZ	2.40	0.95
11:aA:67:GLN:O	11:aA:68:THR:CG2	2.14	0.95
3:L2:77:ARG:HH12	6:M2:70:GLU:CD	1.73	0.95
8:A5:121:THR:HG23	12:A5:201:CYC:C4C	1.94	0.95
6:M6:62:ARG:NH2	1:b7:57:ALA:O	1.69	0.95
10:j5:586:LEU:HD11	10:j5:607:LEU:HD23	1.48	0.95
10:j5:930:LEU:C	1:J7:33:THR:HG21	1.89	0.95
10:k5:825:ASN:OD1	10:k5:854:LEU:CD1	2.14	0.95
12:B8:202:CYC:HMA1	4:M8:58:TYR:N	1.81	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:o7:37:LEU:HD21	1:p7:24:LEU:HD22	1.48	0.95
3:U8:108:ARG:C	4:M8:246:ALA:CB	2.39	0.95
12:H8:201:CYC:HBB3	11:a9:259:ALA:HA	1.47	0.95
4:M9:258:LYS:CG	3:V9:111:ASN:HD21	1.80	0.95
5:N9:22:LEU:CD2	5:N9:26:LEU:CG	2.38	0.95
11:a9:586:LEU:O	11:a9:590:PRO:HG2	1.66	0.95
11:aA:585:GLU:O	11:aA:588:VAL:O	1.81	0.95
3:H1:81:ALA:HB3	12:H1:201:CYC:C2D	1.95	0.95
3:FA:151:GLY:CA	3:F9:150:ARG:NH2	2.30	0.95
4:M4:91:VAL:O	4:M4:218:VAL:HG23	1.64	0.95
4:M4:205:ASP:OD2	5:Z4:59:ARG:HB3	1.67	0.95
5:Z4:1:MET:CB	5:Z4:3:VAL:HG23	1.96	0.95
1:b5:6:THR:CG2	10:k5:19:THR:OG1	2.13	0.95
3:L6:125:ARG:HD3	1:b7:69:GLY:HA2	1.49	0.95
10:k5:136:VAL:HG12	10:k5:137:PRO:HD2	1.44	0.95
12:B8:202:CYC:HHA	4:M8:54:ALA:HB2	1.49	0.95
2:X8:60:TYR:CE2	3:T9:32:LYS:HE3	2.00	0.95
2:X8:65:TYR:N	3:T9:25:ASN:HB3	1.72	0.95
3:F8:107:ASP:O	4:M8:6:THR:O	1.83	0.95
2:I8:14:SER:HA	11:a9:170:PHE:HZ	1.30	0.95
4:M8:205:ASP:OD2	5:Z8:59:ARG:HG2	1.62	0.95
5:N9:66:ARG:NH1	3:T9:111:ASN:CG	2.24	0.95
11:aA:800:THR:HG22	12:aA:901:CYC:HBA2	1.49	0.95
3:FA:150:ARG:HG2	3:F9:150:ARG:CA	1.97	0.95
4:MA:258:LYS:HG2	3:VA:111:ASN:HD21	1.27	0.95
2:A3:60:TYR:HB3	2:A3:67:THR:HG23	1.47	0.95
3:F4:113:LEU:CA	4:M4:5:THR:CG2	2.40	0.95
2:N4:112:GLY:CA	5:Z4:34:LEU:N	2.29	0.95
3:Y4:89:ILE:HG23	3:Y4:92:TYR:HH	1.31	0.95
8:G5:6:LYS:NZ	8:S5:19:SER:HB3	1.77	0.95
10:j5:978:LEU:CD1	1:v7:107:ARG:HH22	1.79	0.95
8:c7:39:ILE:HD11	8:c7:148:GLU:CB	1.95	0.95
3:L8:82:CYS:SG	12:a9:901:CYC:C2C	2.53	0.95
5:N9:53:LEU:CD1	12:T9:301:CYC:HAA1	1.96	0.95
3:H9:84:ARG:NH2	11:a9:474:PHE:CE2	2.34	0.95
3:J9:116:THR:HG23	11:a9:521:PHE:CG	2.00	0.95
11:aA:379:LEU:HD13	11:aA:391:VAL:HG21	1.45	0.95
5:N1:1:MET:CB	5:N1:3:VAL:HG23	1.96	0.95
12:JA:202:CYC:HBA2	11:aA:510:PHE:O	1.67	0.95
6:M2:26:PHE:CB	8:O5:83:ARG:HD2	1.97	0.95
3:F4:113:LEU:N	4:M4:5:THR:HG23	1.82	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M4:301:CYC:C1C	3:Y4:72:ASN:CG	2.32	0.95
8:C5:102:THR:HB	8:C5:103:PRO:HD3	1.48	0.95
8:G5:122:PRO:HD2	12:G5:201:CYC:OC	1.66	0.95
10:j5:1153:VAL:CG2	1:v7:125:ALA:HB2	1.87	0.95
8:O7:22:GLU:HG2	8:O7:25:ARG:NH1	1.82	0.95
5:N9:54:LEU:CD1	12:T9:301:CYC:NB	2.30	0.95
5:Z8:1:MET:CB	5:Z8:3:VAL:HG23	1.96	0.95
11:a9:312:ASP:HA	11:a9:315:LEU:H	1.32	0.95
11:aA:312:ASP:CA	11:aA:315:LEU:HB2	1.77	0.95
11:aA:803:ASN:HA	3:J1:119:ALA:O	1.67	0.95
1:Z:75:THR:HG21	10:j5:182:ASN:O	1.67	0.95
5:NA:54:LEU:HD12	12:TA:301:CYC:HB	1.12	0.95
2:A1:60:TYR:HB3	2:A1:67:THR:HG23	1.47	0.95
1:H5:14:VAL:HG12	10:j5:554:ASN:O	1.63	0.95
1:Z5:67:ARG:CZ	10:k5:705:THR:OG1	2.15	0.95
10:j5:741:GLN:CG	1:J7:77:ARG:HH22	1.77	0.95
10:j5:1050:PHE:HZ	1:r7:107:ARG:CZ	1.79	0.95
10:j5:1119:LEU:CD2	1:t7:87:TYR:OH	2.14	0.95
10:k5:1025:LEU:HD22	10:k5:1035:PHE:HB2	1.45	0.95
10:k5:1054:SER:HA	1:l7:107:ARG:HA	1.47	0.95
3:H8:84:ARG:CG	11:a9:131:TYR:CZ	2.50	0.95
11:a9:31:SER:OG	11:a9:34:ILE:CB	2.13	0.95
11:aA:601:ALA:O	11:aA:604:ALA:CB	2.15	0.95
11:aA:632:ILE:HG12	3:J1:107:ASP:CG	1.91	0.95
2:AA:63:PHE:O	2:AA:66:LEU:HG	1.63	0.95
12:J3:202:CYC:HAA1	11:a9:798:SER:HB3	1.46	0.95
4:M4:205:ASP:OD2	5:Z4:59:ARG:CB	2.15	0.95
6:M6:53:LEU:CD2	8:c7:80:LEU:CG	2.40	0.95
10:k5:156:SER:OG	12:k5:1201:CYC:C3C	2.14	0.95
10:k5:357:LEU:HD22	10:k5:378:TYR:HB3	1.47	0.95
10:k5:825:ASN:HB3	12:B7:201:CYC:OB	1.66	0.95
3:F8:91:ARG:HH22	11:a9:140:GLN:NE2	1.63	0.95
12:L9:202:CYC:HBA2	11:a9:536:THR:HG21	1.46	0.95
5:Z8:29:HIS:CD2	5:Z8:36:THR:CG2	2.49	0.95
11:a9:67:GLN:O	11:a9:68:THR:HG22	1.66	0.95
11:aA:278:LEU:HD12	11:aA:278:LEU:H	1.30	0.95
3:DA:112:GLY:H	4:MA:76:ALA:HB1	1.26	0.94
5:NA:54:LEU:N	12:TA:301:CYC:CBA	2.30	0.94
12:B4:202:CYC:HMA1	4:M4:58:TYR:N	1.80	0.94
4:M4:210:ILE:HD13	5:Z4:26:LEU:HD23	1.45	0.94
8:A5:122:PRO:HG2	12:A5:201:CYC:HMC2	1.48	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d5:155:TYR:CE2	1:T5:113:LYS:NZ	2.35	0.94
8:e5:29:PHE:HE1	8:e5:99:GLY:HA3	1.29	0.94
1:f5:18:TYR:CE2	10:j5:165:ARG:HA	2.01	0.94
1:f5:19:LEU:HD11	10:j5:172:LEU:CD1	1.97	0.94
8:U5:83:ARG:HD2	6:M6:27:ALA:O	1.64	0.94
10:j5:742:GLY:CA	12:J7:201:CYC:CGD	2.44	0.94
10:j5:1151:GLN:CA	1:v7:122:PRO:HB3	1.97	0.94
8:O7:102:THR:HB	8:O7:103:PRO:HD3	1.48	0.94
2:E8:1:MET:N	4:M8:10:ARG:NH2	2.15	0.94
8:u7:17:TYR:HD2	1:v7:93:THR:HG21	1.25	0.94
3:L8:78:ARG:HD3	12:a9:901:CYC:O2D	1.67	0.94
4:M8:215:GLU:CD	5:Z8:27:ALA:HB2	1.51	0.94
12:M8:302:CYC:H2C	3:S8:78:ARG:HD2	1.48	0.94
3:L9:52:ILE:HD11	3:L9:87:GLU:CG	1.97	0.94
5:Z8:38:GLU:HB2	12:Z8:301:CYC:HMB2	0.96	0.94
5:Z8:41:GLN:HB2	12:Z8:301:CYC:CMB	1.97	0.94
1:A:75:THR:OG1	10:k5:182:ASN:HA	1.66	0.94
3:JA:116:THR:HG23	11:aA:521:PHE:CG	2.02	0.94
2:K3:15:GLN:HA	11:a9:745:GLY:HA3	0.95	0.94
1:N5:113:LYS:NZ	1:Z5:155:TYR:HE2	1.40	0.94
12:B5:201:CYC:HBA2	9:z5:26:THR:CG2	1.95	0.94
1:H5:14:VAL:HG11	10:j5:554:ASN:O	1.67	0.94
8:I5:27:LYS:CA	8:I5:30:VAL:HG22	1.95	0.94
8:S5:110:ILE:CD1	10:j5:533:LEU:HD11	1.97	0.94
8:U5:59:PHE:HD2	6:M6:37:GLU:OE2	1.31	0.94
1:Z5:28:LYS:HD2	1:t7:143:PRO:CG	1.86	0.94
10:k5:1016:LEU:CD1	10:k5:1017:ARG:H	1.79	0.94
3:D1:68:ARG:NH2	3:X1:68:ARG:NH2	2.14	0.94
8:i7:96:ILE:HG13	8:i7:152:TYR:CD2	2.02	0.94
3:F8:115:GLU:CD	4:M8:3:VAL:CG2	2.39	0.94
4:M8:190:ARG:NH1	4:M8:202:SER:HB2	1.82	0.94
4:M8:231:THR:CA	12:M8:301:CYC:CBB	2.46	0.94
11:aA:623:ASP:HB2	3:H1:78:ARG:CZ	1.96	0.94
3:HA:78:ARG:HD3	12:HA:202:CYC:CGD	1.97	0.94
3:JA:65:ASP:HB3	11:aA:354:VAL:HG22	1.46	0.94
3:F4:77:ARG:CD	11:aA:146:ARG:HH12	1.79	0.94
4:M4:232:VAL:HG12	3:Y4:109:CYS:O	1.66	0.94
8:O5:102:THR:HB	8:O5:103:PRO:HD3	1.48	0.94
5:Z4:24:PRO:HG3	5:Z4:37:HIS:CD2	2.02	0.94
8:G5:6:LYS:HZ2	8:S5:21:GLY:H	0.99	0.94
8:G5:100:ASP:CG	8:S5:20:PRO:CB	2.40	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G5:121:THR:CG2	12:G5:201:CYC:C4C	2.45	0.94
1:H5:107:ARG:CZ	9:i5:21:ARG:HD3	1.97	0.94
1:P5:161:SER:OXT	1:b5:110:ASN:OD1	1.85	0.94
1:T5:110:ASN:ND2	10:j5:692:LEU:C	2.26	0.94
8:U5:59:PHE:CB	6:M6:39:ARG:HD3	1.97	0.94
10:j5:642:ARG:HH11	10:j5:642:ARG:HG2	1.31	0.94
10:j5:929:PRO:HG2	1:J7:147:LYS:HE2	1.49	0.94
10:j5:1008:PHE:HE1	1:v7:87:TYR:CE2	1.41	0.94
10:k5:930:LEU:O	1:D7:33:THR:CG2	2.15	0.94
3:L8:85:ASP:OD2	12:a9:901:CYC:NA	2.01	0.94
3:L9:51:ILE:HG21	3:L9:90:LEU:HD12	1.47	0.94
5:N9:22:LEU:HD21	5:N9:26:LEU:HD11	1.47	0.94
11:a9:278:LEU:HD12	11:a9:278:LEU:H	1.30	0.94
3:JA:120:LEU:O	11:aA:361:ALA:HB2	1.67	0.94
4:MA:188:LEU:HD22	12:VA:201:CYC:HB	1.30	0.94
4:MA:274:VAL:CB	3:VA:77:ARG:CD	2.44	0.94
5:NA:22:LEU:CD2	5:NA:26:LEU:CG	2.38	0.94
12:F3:201:CYC:HMA1	4:M3:36:TYR:O	1.65	0.94
3:B4:116:THR:N	4:M4:56:MET:HG2	1.82	0.94
3:H4:84:ARG:HG2	11:aA:131:TYR:CE2	2.02	0.94
8:I5:102:THR:HB	8:I5:103:PRO:HD3	1.48	0.94
8:e5:102:THR:HB	8:e5:103:PRO:HD3	1.48	0.94
10:j5:1143:LEU:O	1:r7:10:ASN:CG	2.11	0.94
8:C7:29:PHE:HE1	8:C7:99:GLY:HA3	1.29	0.94
1:T7:106:GLU:HG3	9:w7:58:THR:CG2	1.96	0.94
8:o7:27:LYS:HE3	1:p7:35:ALA:CB	1.87	0.94
3:H8:84:ARG:CG	11:a9:131:TYR:CE2	2.49	0.94
3:H8:119:ALA:HB1	11:a9:266:ASN:CB	1.97	0.94
4:M8:91:VAL:HG13	2:P8:14:SER:C	1.91	0.94
3:J9:120:LEU:O	11:a9:361:ALA:HB2	1.67	0.94
11:a9:426:ARG:HH21	11:a9:496:ARG:CD	1.80	0.94
11:aA:786:GLU:OE1	3:H1:115:GLU:HB2	1.68	0.94
5:NA:61:LYS:HZ3	12:TA:301:CYC:HBB2	1.01	0.94
5:N3:54:LEU:HD12	12:R3:201:CYC:HB	1.12	0.94
4:M4:205:ASP:CB	5:Z4:59:ARG:HE	1.81	0.94
8:A5:121:THR:CG2	12:A5:201:CYC:C4C	2.45	0.94
1:T5:53:LYS:HZ1	8:U5:120:GLN:NE2	1.47	0.94
8:U5:78:THR:HG22	6:M6:35:GLY:HA2	1.48	0.94
10:k5:642:ARG:HH11	10:k5:642:ARG:HG2	1.31	0.94
10:k5:934:ALA:HB2	1:D7:32:THR:CG2	1.95	0.94
4:M9:51:ARG:HH21	11:a9:430:ARG:CD	1.80	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N9:54:LEU:HD12	12:T9:301:CYC:HB	1.12	0.94
11:a9:476:ARG:HH11	11:a9:488:SER:CB	1.69	0.94
1:A:73:TYR:CZ	10:k5:162:TRP:CZ2	2.55	0.94
1:A:127:VAL:HG11	1:R5:15:GLN:CG	1.96	0.94
3:FA:151:GLY:O	3:F9:150:ARG:NH2	2.01	0.94
2:Q1:14:SER:CB	5:N1:62:ARG:HH21	1.72	0.94
2:S1:16:GLY:HA3	5:N1:31:TRP:CD1	2.02	0.94
6:M2:118:GLU:OE1	2:C2:114:ARG:NH1	1.99	0.94
4:M4:235:PHE:CB	12:M4:301:CYC:CAA	2.46	0.94
8:S5:41:GLN:OE1	1:D7:143:PRO:CG	2.14	0.94
10:j5:930:LEU:HB3	1:J7:33:THR:CG2	1.97	0.94
12:B8:202:CYC:HBB1	4:M8:61:ASN:HB2	1.49	0.94
2:N8:115:GLU:HB2	5:Z8:32:PRO:HB2	1.44	0.94
11:a9:56:ILE:CD1	11:a9:612:TYR:CE2	2.51	0.94
11:aA:93:LEU:CD2	11:aA:252:ARG:HH12	1.80	0.94
11:aA:818:ARG:HG3	11:aA:818:ARG:HH11	1.30	0.94
1:Z:131:GLN:CB	1:X5:17:LYS:NZ	2.31	0.94
2:AA:60:TYR:HB3	2:AA:67:THR:HG23	1.47	0.94
5:NA:66:ARG:NH1	3:TA:111:ASN:CG	2.24	0.94
3:H3:78:ARG:HH12	11:a9:623:ASP:HA	1.32	0.94
3:F4:107:ASP:HB3	4:M4:8:SER:OG	0.77	0.94
8:G5:122:PRO:HG2	12:G5:201:CYC:HMC2	1.48	0.94
12:T5:201:CYC:CBB	10:j5:482:GLN:NE2	2.31	0.94
12:M8:302:CYC:OC	3:S8:78:ARG:NH1	2.00	0.94
2:N8:11:SER:HA	5:Z8:62:ARG:NH2	1.82	0.94
3:H9:113:LEU:CD1	12:H9:202:CYC:CMB	2.45	0.94
11:aA:275:THR:C	11:aA:278:LEU:HD11	1.85	0.94
11:aA:312:ASP:CA	11:aA:315:LEU:H	1.79	0.94
11:aA:426:ARG:HH21	11:aA:496:ARG:CD	1.80	0.94
11:aA:632:ILE:CG2	11:aA:634:ALA:N	2.25	0.94
4:M1:190:ARG:NH1	4:M1:202:SER:HB2	1.82	0.94
1:Z:131:GLN:CB	1:X5:17:LYS:HZ1	1.79	0.94
3:FA:36:LYS:CB	3:FA:156:LEU:HD13	1.98	0.94
3:JA:120:LEU:O	11:aA:361:ALA:CB	2.16	0.94
2:KA:18:PHE:CE2	3:LA:48:ALA:HB1	2.02	0.94
4:MA:251:ASN:HD22	4:MA:251:ASN:H	1.16	0.94
5:NA:1:MET:CB	5:NA:3:VAL:HG23	1.96	0.94
5:N3:1:MET:CB	5:N3:3:VAL:HG23	1.96	0.94
3:U4:120:LEU:HG	4:M4:254:LEU:CD2	1.96	0.94
2:E4:1:MET:H2	4:M4:10:ARG:HH21	0.96	0.94
3:F4:88:ILE:HG12	11:aA:140:GLN:HE21	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L4:71:GLY:CA	11:aA:82:GLN:CG	2.45	0.94
4:M4:217:VAL:HG22	5:Z4:30:PRO:HD3	1.44	0.94
12:O4:201:CYC:CMA	5:Z4:53:LEU:CD1	2.46	0.94
8:A5:112:VAL:HA	1:F5:75:THR:HB	1.47	0.94
8:a5:102:THR:HB	8:a5:103:PRO:HD3	1.48	0.94
1:b5:5:ILE:HD13	10:k5:46:PHE:CZ	2.01	0.94
3:L6:125:ARG:HD2	1:b7:69:GLY:HA3	0.96	0.94
6:M6:117:MET:HE3	3:H6:77:ARG:NH1	1.56	0.94
10:j5:766:ALA:HB2	8:K7:14:GLU:OE2	1.65	0.94
10:j5:1025:LEU:HA	10:j5:1030:ILE:HG22	1.49	0.94
10:j5:1025:LEU:HA	10:j5:1030:ILE:CG2	1.98	0.94
10:k5:965:GLN:N	1:n7:69:GLY:CA	2.24	0.94
8:c7:96:ILE:HG13	8:c7:152:TYR:CD2	2.02	0.94
8:u7:27:LYS:HE3	1:v7:35:ALA:CB	1.87	0.94
4:M8:140:ARG:NH2	5:Z8:26:LEU:HA	1.83	0.94
4:M8:140:ARG:HD2	4:M8:214:GLY:O	1.66	0.94
4:M8:144:ARG:CG	4:M8:204:ILE:HD13	1.98	0.94
4:M8:235:PHE:CB	12:M8:301:CYC:CAA	2.46	0.94
12:M8:302:CYC:HBC1	3:S8:78:ARG:O	1.68	0.94
2:N8:115:GLU:CD	5:Z8:32:PRO:HG2	1.92	0.94
3:O8:111:ASN:O	5:Z8:67:ILE:HG21	1.65	0.94
4:M9:163:ASN:HD21	12:V9:201:CYC:HMA1	1.25	0.94
5:Z8:37:HIS:CE1	12:Z8:301:CYC:CMA	2.50	0.94
5:Z8:39:PRO:HG3	12:Z8:301:CYC:HHD	1.48	0.94
3:J9:70:GLY:HA3	11:a9:356:ALA:HB1	1.47	0.94
3:J9:120:LEU:O	11:a9:361:ALA:CB	2.16	0.94
12:G1:201:CYC:HMD1	12:G1:201:CYC:HC	1.33	0.94
11:a9:31:SER:HG	11:a9:34:ILE:HB	0.91	0.94
11:aA:668:TYR:HH	2:K1:115:GLU:HG3	1.25	0.94
11:aA:694:ARG:HH22	4:M1:51:ARG:NH2	1.56	0.94
3:LA:52:ILE:HD11	3:LA:87:GLU:CG	1.97	0.94
4:MA:158:PHE:O	3:VA:108:ARG:CD	2.15	0.94
2:OA:60:TYR:HB3	2:OA:67:THR:HG23	1.47	0.94
3:J3:107:ASP:CG	11:a9:632:ILE:HG12	1.92	0.94
3:L2:65:ASP:OD2	1:h7:64:ASP:CG	2.10	0.94
12:G4:201:CYC:HMD1	12:G4:201:CYC:HC	1.33	0.94
3:O4:119:ALA:HB1	5:Z4:72:GLU:HB2	1.50	0.94
8:I5:37:LEU:HD21	1:J5:27:LEU:CD1	1.98	0.94
10:j5:825:ASN:OD1	10:j5:854:LEU:CD1	2.14	0.94
10:j5:1018:LEU:CD1	10:j5:1035:PHE:HZ	1.61	0.94
10:k5:930:LEU:HB3	1:D7:33:THR:HG21	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M8:301:CYC:C4B	3:Y8:88:ILE:HG21	1.98	0.94
3:Q8:102:ALA:HB2	3:Q8:166:LYS:HZ1	1.28	0.94
11:a9:601:ALA:O	11:a9:604:ALA:CB	2.15	0.94
11:aA:694:ARG:HH12	4:M1:51:ARG:NH2	1.57	0.94
1:A:76:ARG:NH1	10:k5:262:TYR:CE2	2.35	0.94
4:MA:51:ARG:HH21	11:aA:430:ARG:CD	1.79	0.94
3:B4:108:ARG:O	4:M4:61:ASN:CB	2.16	0.94
3:L3:88:ILE:HG13	11:a9:742:GLN:HE22	1.21	0.94
3:L3:111:ASN:O	11:a9:711:SER:CB	2.16	0.94
3:F4:107:ASP:C	4:M4:6:THR:O	2.10	0.94
3:H4:119:ALA:HB1	11:aA:266:ASN:CB	1.96	0.94
3:Q4:97:LEU:HA	3:Q4:163:TYR:CE2	2.03	0.94
8:G5:115:MET:HE1	12:G5:201:CYC:C1B	1.97	0.94
8:S5:110:ILE:HD11	10:j5:533:LEU:HD11	1.48	0.94
8:U5:102:THR:HB	8:U5:103:PRO:HD3	1.48	0.94
10:k5:929:PRO:HG2	1:D7:147:LYS:CG	1.97	0.94
2:A6:60:TYR:HB3	2:A6:67:THR:HG23	1.47	0.94
8:q7:45:GLU:OE1	3:H1:125:ARG:CZ	2.15	0.94
8:u7:90:ARG:CD	1:v7:18:TYR:CD1	2.51	0.94
4:M8:139:VAL:CG2	4:M8:216:ASN:CA	2.46	0.94
12:O8:201:CYC:HMA2	5:Z8:53:LEU:HD13	1.50	0.94
2:E9:2:LYS:HZ1	2:I9:17:ARG:HH12	1.08	0.94
3:HA:59:LEU:HD21	12:HA:202:CYC:HBC2	1.47	0.93
12:C4:201:CYC:HMD1	12:C4:201:CYC:HC	1.33	0.93
12:W3:201:CYC:HMD1	12:W3:201:CYC:HC	1.34	0.93
4:M4:197:ASP:HB3	5:Z4:52:ARG:CG	1.97	0.93
3:Y4:88:ILE:HG22	3:Y4:91:ARG:HH22	1.30	0.93
10:j5:1064:LYS:HD2	10:j5:1065:HIS:CD2	2.03	0.93
10:k5:1015:TYR:OH	8:k7:110:ILE:CG2	2.15	0.93
8:i7:104:ILE:HG21	8:i7:155:TYR:HE2	1.33	0.93
3:B8:119:ALA:HB2	4:M8:69:ILE:HG21	0.95	0.93
8:u7:37:LEU:HD21	1:v7:24:LEU:HD22	1.47	0.93
8:u7:37:LEU:HD12	1:v7:28:LYS:HE3	1.45	0.93
12:X8:201:CYC:HMD1	12:X8:201:CYC:HC	1.33	0.93
2:N8:112:GLY:HA3	5:Z8:33:GLY:C	1.93	0.93
5:N9:54:LEU:HD22	3:T9:84:ARG:NH1	1.83	0.93
2:A2:60:TYR:HB3	2:A2:67:THR:HG23	1.47	0.93
4:MA:258:LYS:CG	3:VA:111:ASN:HD21	1.80	0.93
3:P1:115:GLU:CB	5:N1:3:VAL:HG11	1.99	0.93
3:J3:84:ARG:HH22	11:a9:670:LEU:CA	1.79	0.93
12:B1:202:CYC:HBA2	11:aA:684:ASN:CA	1.97	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A5:115:MET:HE1	12:A5:201:CYC:C1B	1.97	0.93
8:U5:75:GLU:OE2	6:M6:32:MET:CE	2.16	0.93
8:g7:63:PRO:HD2	11:aA:336:ILE:HG23	1.45	0.93
8:a7:29:PHE:HE1	8:a7:99:GLY:HA3	1.29	0.93
12:N8:201:CYC:HMD1	12:N8:201:CYC:HC	1.34	0.93
3:L9:109:CYS:O	11:a9:532:ALA:HB2	1.68	0.93
4:M9:158:PHE:O	3:V9:108:ARG:CD	2.15	0.93
5:Z8:22:LEU:CD2	5:Z8:26:LEU:CG	2.38	0.93
11:a9:93:LEU:CD2	11:a9:252:ARG:HH12	1.80	0.93
11:aA:312:ASP:HA	11:aA:315:LEU:H	1.32	0.93
11:aA:348:GLN:HE21	11:aA:348:GLN:H	0.94	0.93
11:aA:632:ILE:HG22	11:aA:634:ALA:H	0.77	0.93
1:A:158:SER:HB3	1:R5:11:ASN:CG	1.93	0.93
4:MA:190:ARG:NH1	4:MA:202:SER:HB2	1.82	0.93
2:G3:107:ASP:OD1	3:L3:77:ARG:NH2	2.02	0.93
12:A3:201:CYC:HMD1	12:A3:201:CYC:HC	1.34	0.93
3:F3:119:ALA:CB	4:M3:41:ASN:HD21	1.81	0.93
3:U4:120:LEU:HD22	3:U4:122:THR:OG1	1.69	0.93
3:L4:71:GLY:H	11:aA:82:GLN:HG2	1.12	0.93
2:N4:14:SER:HB2	5:Z4:62:ARG:CD	1.95	0.93
2:N4:112:GLY:N	5:Z4:34:LEU:CA	2.31	0.93
8:I5:29:PHE:HE1	8:I5:99:GLY:HA3	1.29	0.93
10:j5:779:ASP:OD2	12:L7:201:CYC:HMA2	1.68	0.93
10:k5:631:HIS:HD2	10:k5:664:MET:CE	1.80	0.93
10:k5:1025:LEU:HA	10:k5:1030:ILE:CG2	1.98	0.93
8:a7:63:PRO:HD2	11:a9:336:ILE:HG22	1.12	0.93
8:c7:12:ASP:N	1:d7:94:TYR:OH	2.00	0.93
1:d7:77:ARG:CZ	9:x7:63:ALA:HB3	1.98	0.93
8:u7:27:LYS:CD	1:v7:35:ALA:HA	1.98	0.93
3:U8:114:LYS:CE	4:M8:13:LYS:HZ1	1.74	0.93
4:M8:235:PHE:CB	12:M8:301:CYC:C3A	2.46	0.93
4:M9:190:ARG:NH1	4:M9:202:SER:HB2	1.82	0.93
12:O9:201:CYC:HMD1	12:O9:201:CYC:HC	1.33	0.93
3:H9:108:ARG:HH12	11:a9:448:ASN:HD21	1.14	0.93
12:EA:201:CYC:HMD1	12:EA:201:CYC:HC	1.34	0.93
4:MA:188:LEU:HG	3:VA:84:ARG:CZ	1.99	0.93
12:YA:201:CYC:HMD1	12:YA:201:CYC:HC	1.34	0.93
4:M3:120:LEU:HD21	3:X3:84:ARG:CZ	1.97	0.93
8:Q5:17:TYR:CB	1:R5:45:SER:HB3	1.99	0.93
8:U5:75:GLU:HB2	6:M6:43:TRP:NE1	1.82	0.93
10:j5:729:ILE:CD1	1:J7:64:ASP:OD1	2.15	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v7:136:VAL:HG13	11:aA:342:ARG:HH12	1.32	0.93
3:F8:109:CYS:O	4:M8:5:THR:HG22	1.68	0.93
3:L8:68:ARG:HB3	11:a9:81:ASP:HA	1.48	0.93
4:M8:57:THR:HA	4:M8:60:LYS:HE3	1.50	0.93
12:U9:201:CYC:HMD1	12:U9:201:CYC:HC	1.33	0.93
11:aA:56:ILE:CD1	11:aA:612:TYR:CE2	2.51	0.93
4:M1:251:ASN:HD22	4:M1:251:ASN:H	1.16	0.93
4:M1:273:ILE:HG12	3:Z1:77:ARG:HH21	1.33	0.93
1:A:110:ASN:ND2	10:k5:462:TYR:OH	1.96	0.93
3:FA:68:ARG:NH1	3:ZA:68:ARG:NH2	2.17	0.93
2:IA:31:PHE:CE2	3:JA:31:VAL:CA	2.45	0.93
5:NA:54:LEU:CD1	12:TA:301:CYC:NB	2.30	0.93
3:L3:119:ALA:O	11:a9:817:LEU:HD11	1.67	0.93
4:M3:190:ARG:NH1	4:M3:202:SER:HB2	1.82	0.93
5:N3:31:TRP:CD1	2:S3:16:GLY:HA3	2.02	0.93
4:M4:100:SER:HB3	3:Q4:1:MET:HE3	0.95	0.93
4:M4:232:VAL:N	12:M4:301:CYC:HBB3	1.84	0.93
12:R4:201:CYC:HMD1	12:R4:201:CYC:HC	1.33	0.93
8:G5:103:PRO:HA	10:j5:557:VAL:HG11	1.48	0.93
9:z5:14:LEU:HD12	9:z5:15:LYS:H	1.33	0.93
10:k5:275:THR:CG2	10:k5:286:VAL:CG1	2.47	0.93
3:H8:81:ALA:HB2	3:H8:84:ARG:HH21	1.32	0.93
4:M8:268:ARG:C	4:M8:269:SER:O	1.90	0.93
3:J9:111:ASN:O	11:a9:518:ALA:HB3	1.68	0.93
11:aA:93:LEU:HD23	11:aA:252:ARG:HH11	1.34	0.93
11:aA:326:ILE:O	11:aA:329:ASN:O	1.87	0.93
12:I1:201:CYC:HMD1	12:I1:201:CYC:HC	1.33	0.93
4:M1:120:LEU:HD21	3:X1:84:ARG:CZ	1.97	0.93
3:HA:82:CYS:SG	12:HA:202:CYC:HAC2	2.08	0.93
3:LA:44:ILE:CG2	3:LA:90:LEU:HD21	1.98	0.93
4:MA:273:ILE:HD11	3:VA:75:PRO:CD	1.93	0.93
12:QA:201:CYC:CGA	3:TA:67:ILE:HG21	1.96	0.93
3:TA:25:ASN:HB3	2:X4:65:TYR:N	1.72	0.93
12:WA:201:CYC:HMD1	12:WA:201:CYC:HC	1.33	0.93
2:K4:15:GLN:O	11:aA:241:VAL:HG11	1.57	0.93
4:M4:82:ILE:CD1	12:M4:301:CYC:O1D	2.16	0.93
12:M4:301:CYC:HMC3	3:Y4:72:ASN:CB	1.98	0.93
12:M4:301:CYC:C4B	3:Y4:88:ILE:HD12	1.98	0.93
2:N4:111:ALA:CA	5:Z4:34:LEU:HD12	1.98	0.93
8:W5:11:ALA:HB3	1:X5:94:TYR:CZ	2.04	0.93
6:M6:104:ARG:NH1	2:G6:16:GLY:CA	2.31	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:i5:18:ARG:CB	9:i5:22:GLU:OE2	2.17	0.93
10:k5:36:ASN:HB2	10:k5:39:GLU:HB2	1.51	0.93
12:E1:201:CYC:HMD1	12:E1:201:CYC:HC	1.34	0.93
2:A8:60:TYR:HB3	2:A8:67:THR:HG23	1.47	0.93
3:F8:77:ARG:CD	11:a9:146:ARG:HH12	1.80	0.93
3:L9:44:ILE:CG2	3:L9:90:LEU:HD21	1.98	0.93
4:M9:188:LEU:HG	3:V9:84:ARG:CZ	1.99	0.93
5:Z8:37:HIS:CG	12:Z8:301:CYC:C1B	2.51	0.93
11:a9:710:THR:CG2	11:a9:807:GLN:HB3	1.99	0.93
11:aA:31:SER:HG	11:aA:34:ILE:HB	0.94	0.93
11:aA:800:THR:HG22	12:aA:901:CYC:CBA	1.99	0.93
12:S1:201:CYC:HMD1	12:S1:201:CYC:HC	1.34	0.93
12:I3:201:CYC:HMD1	12:I3:201:CYC:HC	1.33	0.93
3:J3:119:ALA:O	11:a9:803:ASN:HA	1.66	0.93
12:H2:201:CYC:HBB2	6:M2:243:ALA:HB2	1.49	0.93
12:B3:202:CYC:CAA	11:a9:684:ASN:CB	2.42	0.93
12:A4:201:CYC:HMD1	12:A4:201:CYC:HC	1.33	0.93
12:H4:201:CYC:HBB2	11:aA:259:ALA:CB	1.99	0.93
4:M4:217:VAL:HG22	5:Z4:30:PRO:CB	1.98	0.93
4:M4:217:VAL:CG2	5:Z4:30:PRO:CD	2.46	0.93
1:f5:19:LEU:CD1	10:j5:172:LEU:HD11	1.99	0.93
1:b5:114:GLU:CB	10:k5:491:THR:HG23	1.98	0.93
10:j5:289:SER:HB3	10:j5:292:GLU:OE2	1.69	0.93
10:j5:357:LEU:HD22	10:j5:378:TYR:HB3	1.47	0.93
10:k5:1055:SER:HG	12:k5:1203:CYC:HBB2	1.32	0.93
10:k5:1064:LYS:HD2	10:k5:1065:HIS:CD2	2.03	0.93
8:I7:25:ARG:NH2	8:W7:25:ARG:HB2	1.81	0.93
3:O8:119:ALA:HB1	5:Z8:72:GLU:CG	1.99	0.93
2:R8:64:PRO:HG2	3:T9:21:GLU:HB2	1.50	0.93
4:MA:274:VAL:HA	3:VA:77:ARG:HG3	1.45	0.93
3:J3:120:LEU:HD21	11:a9:800:THR:HG21	0.93	0.93
3:B4:116:THR:CA	4:M4:56:MET:HG2	1.98	0.93
8:G5:106:GLU:OE1	10:j5:557:VAL:HB	1.67	0.93
1:f5:3:ASP:OD2	10:j5:21:MET:CB	2.17	0.93
12:P5:201:CYC:HBB2	10:k5:623:VAL:HG21	1.48	0.93
6:M6:283:VAL:HG12	8:Y7:75:GLU:HB3	0.93	0.93
10:j5:322:LYS:HD2	10:j5:336:ARG:HH12	1.34	0.93
10:j5:1018:LEU:HD12	10:j5:1035:PHE:CZ	2.01	0.93
10:k5:1046:ARG:NH2	8:k7:9:VAL:HG11	1.83	0.93
2:X8:74:TYR:OH	2:S9:35:THR:C	2.12	0.93
3:L8:68:ARG:HB2	11:a9:82:GLN:HB2	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:F1:201:CYC:HMA1	4:M1:36:TYR:O	1.65	0.93
5:N9:54:LEU:N	12:T9:301:CYC:CBA	2.30	0.93
3:H9:113:LEU:HD21	12:H9:202:CYC:CMB	1.99	0.93
3:J9:119:ALA:CA	11:a9:365:LYS:HE2	1.99	0.93
12:A2:201:CYC:HMD1	12:A2:201:CYC:HC	1.34	0.93
3:JA:65:ASP:CB	11:aA:354:VAL:HG21	1.99	0.93
3:H3:115:GLU:HB2	11:a9:786:GLU:OE1	1.66	0.93
3:J3:77:ARG:NH2	2:K3:107:ASP:OD1	2.02	0.93
12:K3:201:CYC:HMD1	12:K3:201:CYC:HC	1.34	0.93
12:B4:202:CYC:HHA	4:M4:54:ALA:HB2	1.49	0.93
12:Q3:201:CYC:HMD1	12:Q3:201:CYC:HC	1.34	0.93
2:N4:111:ALA:O	5:Z4:34:LEU:CG	2.14	0.93
8:U7:49:ARG:NH1	1:l7:114:GLU:OE2	2.02	0.93
8:o7:27:LYS:CD	1:p7:35:ALA:HA	1.99	0.93
3:L8:69:PRO:O	11:a9:82:GLN:CB	2.16	0.93
4:M8:128:ALA:CB	4:M8:142:PHE:CE1	2.52	0.93
4:M8:205:ASP:HB2	5:Z8:59:ARG:HE	1.30	0.93
4:M8:217:VAL:HG21	5:Z8:30:PRO:CG	1.71	0.93
3:O8:107:ASP:CG	5:Z8:66:ARG:CD	2.37	0.93
3:L9:37:ARG:NH1	3:L9:97:LEU:O	2.02	0.93
12:W9:201:CYC:HMD1	12:W9:201:CYC:HC	1.33	0.93
11:a9:312:ASP:C	11:a9:315:LEU:H	1.74	0.93
11:aA:632:ILE:CG2	11:aA:634:ALA:HB2	1.98	0.93
12:KA:201:CYC:HMD1	12:KA:201:CYC:HC	1.34	0.93
3:LA:37:ARG:NH1	3:LA:97:LEU:O	2.02	0.93
3:LA:109:CYS:O	11:aA:532:ALA:HB2	1.69	0.93
4:MA:274:VAL:CB	3:VA:77:ARG:HG2	1.98	0.93
12:A1:201:CYC:HMD1	12:A1:201:CYC:HC	1.34	0.93
12:O3:201:CYC:HMD1	12:O3:201:CYC:HC	1.34	0.93
12:Y3:201:CYC:HMD1	12:Y3:201:CYC:HC	1.33	0.93
3:L4:69:PRO:O	11:aA:82:GLN:CB	2.16	0.93
4:M4:94:TRP:CE3	3:Q4:88:ILE:HA	2.04	0.93
4:M4:190:ARG:NH1	4:M4:202:SER:HB2	1.82	0.93
4:M4:226:SER:OG	3:Y4:88:ILE:HG23	1.68	0.93
1:R5:124:ALA:CB	1:Z5:64:ASP:OD1	2.16	0.93
8:U5:80:LEU:CG	6:M6:28:ASN:HB2	1.81	0.93
6:M6:69:ALA:HB1	3:H6:10:VAL:HG13	1.50	0.93
10:j5:1047:LYS:O	10:j5:1051:GLU:CB	2.17	0.93
10:j5:1052:PRO:HB3	11:aA:32:ARG:NH2	1.83	0.93
10:k5:1018:LEU:CD1	10:k5:1035:PHE:HZ	1.61	0.93
10:k5:1143:LEU:CG	8:k7:106:GLU:OE1	2.16	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:I6:201:CYC:HMD1	12:I6:201:CYC:HC	1.34	0.93
8:O7:22:GLU:O	8:O7:25:ARG:HG3	1.69	0.93
8:o7:2:SER:HB3	1:p7:5:ILE:CG2	1.99	0.93
5:N9:50:LEU:CD2	12:T9:301:CYC:O1D	2.17	0.93
3:H9:78:ARG:HD3	12:H9:202:CYC:CGD	1.99	0.93
11:a9:476:ARG:HH12	11:a9:488:SER:CB	1.71	0.93
11:a9:632:ILE:CG2	11:a9:634:ALA:HB2	1.98	0.93
4:M1:81:ASP:H	3:X1:111:ASN:HD22	1.16	0.93
5:N1:34:LEU:CB	3:T1:84:ARG:HD3	1.99	0.93
2:A3:16:GLY:HA2	11:a9:677:GLN:HE22	1.25	0.92
3:B3:82:CYS:HG	12:B3:202:CYC:HAC2	1.29	0.92
3:Z3:120:LEU:HD21	4:M3:181:GLN:NE2	1.84	0.92
12:B4:202:CYC:HBB1	4:M4:61:ASN:HB2	1.49	0.92
12:V4:201:CYC:HMD1	12:V4:201:CYC:HC	1.33	0.92
8:Q5:17:TYR:HB3	1:R5:45:SER:HB3	1.49	0.92
8:Q5:17:TYR:HD2	1:R5:93:THR:HG21	1.32	0.92
10:k5:362:LYS:HE2	10:k5:363:HIS:CD2	2.03	0.92
10:k5:929:PRO:HG3	1:D7:147:LYS:HE2	1.49	0.92
10:k5:974:LEU:CD1	1:p7:106:GLU:OE2	2.16	0.92
10:k5:1052:PRO:HB3	11:a9:32:ARG:NH2	1.82	0.92
8:g7:63:PRO:HD2	11:aA:336:ILE:HG22	1.12	0.92
8:a7:102:THR:HB	8:a7:103:PRO:HD3	1.48	0.92
8:c7:16:ARG:N	1:d7:90:ARG:HD2	1.82	0.92
8:q7:75:GLU:O	11:aA:53:VAL:CG1	2.16	0.92
4:M8:223:GLY:O	12:M8:301:CYC:CBA	2.15	0.92
3:O8:119:ALA:C	5:Z8:72:GLU:OE2	2.12	0.92
12:S9:201:CYC:HMD1	12:S9:201:CYC:HC	1.33	0.92
11:a9:426:ARG:NH2	11:a9:496:ARG:HD3	1.84	0.92
11:aA:636:ALA:O	11:aA:774:PHE:HD2	1.49	0.92
11:aA:709:CYS:O	11:aA:807:GLN:HB2	1.70	0.92
11:aA:710:THR:CG2	11:aA:807:GLN:HB3	1.99	0.92
11:aA:817:LEU:HD11	3:L1:119:ALA:O	1.68	0.92
12:GA:201:CYC:HMD1	12:GA:201:CYC:HC	1.33	0.92
12:G3:201:CYC:HMD1	12:G3:201:CYC:HC	1.33	0.92
5:N3:3:VAL:HG11	3:P3:115:GLU:CB	1.99	0.92
3:F4:109:CYS:O	4:M4:5:THR:HG22	1.68	0.92
12:I4:201:CYC:HMD1	12:I4:201:CYC:HC	1.34	0.92
4:M4:92:GLU:OE1	5:Z4:30:PRO:HD3	1.66	0.92
8:G5:119:LEU:HD13	12:G5:201:CYC:C1A	1.98	0.92
8:U5:48:GLU:HA	6:M6:34:ARG:HH12	1.31	0.92
9:z5:18:ARG:CB	9:z5:22:GLU:OE2	2.17	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1006:ASP:OD1	10:j5:1065:HIS:NE2	2.01	0.92
10:k5:1151:GLN:HA	1:p7:122:PRO:HB3	1.51	0.92
8:O7:52:LYS:CE	11:aA:29:ARG:NH1	2.26	0.92
8:g7:102:THR:HB	8:g7:103:PRO:HD3	1.48	0.92
8:i7:20:PRO:CD	8:s7:101:VAL:HG21	1.99	0.92
12:b7:201:CYC:CBB	9:x7:21:ARG:NE	2.32	0.92
8:c7:104:ILE:HG21	8:c7:155:TYR:HE2	1.33	0.92
2:E8:15:GLN:CG	11:a9:163:ASP:HB2	1.99	0.92
9:x7:3:ARG:CZ	9:x7:67:VAL:HG13	1.98	0.92
2:N8:112:GLY:H	5:Z8:34:LEU:CB	1.82	0.92
4:M9:6:THR:HG22	3:D9:108:ARG:C	1.95	0.92
3:H9:82:CYS:SG	12:H9:202:CYC:HAC2	2.10	0.92
3:J9:111:ASN:O	11:a9:518:ALA:CA	2.17	0.92
11:aA:476:ARG:HH11	11:aA:488:SER:CB	1.69	0.92
11:aA:776:TYR:CD1	12:H1:201:CYC:C4B	2.51	0.92
5:N1:22:LEU:CD1	5:N1:26:LEU:CD2	2.47	0.92
3:FA:151:GLY:N	3:F9:150:ARG:NH2	2.16	0.92
3:JA:111:ASN:O	11:aA:518:ALA:HB3	1.67	0.92
4:MA:181:GLN:CD	3:VA:120:LEU:HD21	1.94	0.92
1:R5:107:ARG:O	10:k5:520:ARG:NH1	2.02	0.92
8:W5:17:TYR:HB3	1:X5:45:SER:HB3	1.49	0.92
10:j5:289:SER:CB	10:j5:292:GLU:OE2	2.17	0.92
10:j5:825:ASN:HB2	12:H7:201:CYC:HBB2	1.51	0.92
10:k5:748:ARG:NE	8:E7:106:GLU:OE2	2.03	0.92
12:A6:201:CYC:HMD1	12:A6:201:CYC:HC	1.34	0.92
2:X8:65:TYR:N	3:T9:25:ASN:CB	2.32	0.92
3:Q8:77:ARG:CA	5:Z8:34:LEU:HB3	1.98	0.92
4:M9:185:ALA:CA	12:V9:201:CYC:CGA	2.48	0.92
5:N9:1:MET:HG3	3:R9:119:ALA:CB	1.90	0.92
5:N9:62:ARG:NE	2:S9:14:SER:HA	1.78	0.92
5:Z8:5:THR:O	5:Z8:5:THR:HG23	1.67	0.92
5:Z8:22:LEU:HD13	5:Z8:26:LEU:CD2	1.99	0.92
5:Z8:31:TRP:HB3	5:Z8:32:PRO:HD2	1.50	0.92
3:H9:116:THR:CG2	11:a9:449:ASN:HD21	1.83	0.92
11:aA:54:ARG:NH1	11:aA:609:LEU:O	2.03	0.92
3:DA:108:ARG:C	4:MA:6:THR:HG22	1.95	0.92
3:JA:111:ASN:O	11:aA:518:ALA:CA	2.17	0.92
3:JA:119:ALA:HB1	11:aA:365:LYS:HE2	1.50	0.92
5:NA:54:LEU:HD22	3:TA:84:ARG:NH1	1.83	0.92
3:TA:21:GLU:HB2	2:R4:64:PRO:HG2	1.50	0.92
2:G2:16:GLY:CA	6:M2:104:ARG:NH1	2.31	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N3:22:LEU:HD13	5:N3:26:LEU:CD2	1.99	0.92
12:T4:201:CYC:HMD1	12:T4:201:CYC:HC	1.33	0.92
3:F4:107:ASP:HA	4:M4:6:THR:O	1.66	0.92
4:M4:128:ALA:CB	4:M4:142:PHE:CZ	2.52	0.92
12:J5:201:CYC:HBB2	9:i5:42:GLN:NE2	1.84	0.92
1:Z5:83:ARG:HH12	10:k5:379:PHE:HE2	1.18	0.92
10:j5:1043:GLU:CG	8:e7:14:GLU:OE2	2.17	0.92
10:j5:1150:TYR:CE2	1:v7:69:GLY:C	2.42	0.92
10:k5:1006:ASP:OD1	10:k5:1065:HIS:NE2	2.01	0.92
12:B8:202:CYC:HBB2	4:M8:61:ASN:HB3	0.92	0.92
4:M8:104:ALA:HB3	2:P8:14:SER:CA	1.96	0.92
3:L9:48:ALA:HB1	2:K9:18:PHE:CE2	2.02	0.92
11:aA:798:SER:HG	12:aA:901:CYC:CMA	1.73	0.92
12:JA:202:CYC:NB	11:aA:512:TYR:CB	2.14	0.92
5:NA:22:LEU:CD1	5:NA:26:LEU:CD2	2.47	0.92
4:M3:118:TYR:CD2	3:X3:84:ARG:NH2	2.38	0.92
4:M3:196:TYR:HB2	2:Y3:14:SER:O	1.70	0.92
4:M3:251:ASN:HD22	4:M3:251:ASN:H	1.16	0.92
5:N3:66:ARG:HH12	3:R3:111:ASN:HD21	1.14	0.92
2:E4:15:GLN:CG	11:aA:163:ASP:HB2	1.99	0.92
12:L5:201:CYC:HMA1	12:L5:201:CYC:NB	1.84	0.92
8:M5:20:PRO:HB2	8:A5:100:ASP:CG	1.95	0.92
8:O5:76:LYS:O	8:O5:79:ALA:N	2.02	0.92
8:A5:119:LEU:HD13	12:A5:201:CYC:C1A	1.98	0.92
8:e5:38:ARG:CZ	1:R5:144:ASP:OD1	2.17	0.92
8:W5:17:TYR:CB	1:X5:45:SER:HB3	1.99	0.92
10:k5:289:SER:CB	10:k5:292:GLU:OE2	2.17	0.92
10:k5:1018:LEU:HD12	10:k5:1035:PHE:CZ	2.01	0.92
8:o7:90:ARG:CD	1:p7:18:TYR:CD1	2.51	0.92
3:L9:14:LEU:CD1	11:a9:358:PRO:HB3	1.93	0.92
4:M9:77:LEU:HD11	3:Z9:115:GLU:CD	1.93	0.92
4:M9:274:VAL:CB	3:V9:77:ARG:CG	2.47	0.92
5:N9:22:LEU:CD1	5:N9:26:LEU:CD2	2.47	0.92
12:J9:202:CYC:HBA2	11:a9:510:PHE:O	1.66	0.92
11:aA:798:SER:HB3	11:aA:800:THR:HG22	1.49	0.92
5:N1:22:LEU:HD13	5:N1:26:LEU:CD2	1.99	0.92
1:Z:161:SER:CB	1:X5:14:VAL:HB	1.99	0.92
12:AA:201:CYC:HMD1	12:AA:201:CYC:HC	1.33	0.92
12:CA:201:CYC:HMD1	12:CA:201:CYC:HC	1.34	0.92
3:HA:126:SER:HB3	12:HA:202:CYC:CMC	1.87	0.92
3:JA:109:CYS:C	11:aA:518:ALA:HB2	1.95	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:77:LEU:HD11	3:ZA:115:GLU:CD	1.93	0.92
6:M2:39:ARG:HE	8:O5:66:VAL:HG11	1.13	0.92
3:B3:108:ARG:O	4:M3:6:THR:CG2	2.18	0.92
8:Q5:11:ALA:HB3	1:R5:94:TYR:CZ	2.04	0.92
8:U5:83:ARG:HB3	6:M6:26:PHE:CD1	2.02	0.92
8:W5:17:TYR:HD2	1:X5:93:THR:HG21	1.32	0.92
3:F6:82:CYS:SG	12:F6:201:CYC:CAC	2.57	0.92
12:E8:201:CYC:HMD1	12:E8:201:CYC:HC	1.33	0.92
8:u7:5:THR:OG1	1:v7:6:THR:CG2	2.18	0.92
3:F8:115:GLU:HG2	4:M8:3:VAL:CG2	2.00	0.92
3:L8:71:GLY:H	11:a9:82:GLN:CG	1.77	0.92
3:O8:104:VAL:CA	5:Z8:61:LYS:CE	2.47	0.92
4:M9:157:PHE:C	3:V9:108:ARG:HD2	1.95	0.92
12:Q9:201:CYC:HMD1	12:Q9:201:CYC:HC	1.33	0.92
2:G1:107:ASP:OD1	3:L1:77:ARG:NH2	2.02	0.92
11:a9:275:THR:N	11:a9:278:LEU:HD11	1.84	0.92
11:a9:632:ILE:CG2	11:a9:634:ALA:N	2.25	0.92
12:E2:201:CYC:HMD1	12:E2:201:CYC:HC	1.34	0.92
3:B4:85:ASP:HB2	12:B4:202:CYC:H3C	1.50	0.92
3:F4:108:ARG:NH2	4:M4:9:GLN:CG	2.20	0.92
1:B5:14:VAL:HG11	10:k5:554:ASN:C	1.95	0.92
1:f5:18:TYR:OH	10:j5:161:ASP:O	1.87	0.92
1:V5:83:ARG:CZ	10:j5:649:PHE:HE2	1.82	0.92
10:j5:275:THR:CG2	10:j5:286:VAL:CG1	2.47	0.92
10:j5:1118:THR:O	12:j5:1202:CYC:CMA	2.17	0.92
10:k5:1047:LYS:O	10:k5:1051:GLU:CB	2.17	0.92
8:c7:17:TYR:HE2	1:d7:93:THR:HG1	1.15	0.92
8:u7:37:LEU:HD22	1:v7:24:LEU:CG	2.00	0.92
3:F9:68:ARG:NH1	3:Z9:68:ARG:NH2	2.17	0.92
11:a9:326:ILE:O	11:a9:329:ASN:O	1.87	0.92
11:a9:476:ARG:HH11	11:a9:488:SER:HB3	1.32	0.92
11:aA:742:GLN:HE22	3:L1:88:ILE:HG13	1.19	0.92
12:U1:201:CYC:HMD1	12:U1:201:CYC:HC	1.33	0.92
2:A1:16:GLY:HA2	11:aA:677:GLN:HE22	1.27	0.92
3:J3:85:ASP:CA	11:a9:668:TYR:OH	2.16	0.92
4:M3:120:LEU:HD22	2:Y3:115:GLU:OE2	1.69	0.92
3:B1:88:ILE:CB	12:B1:202:CYC:HMB2	2.00	0.92
8:C5:37:LEU:HD21	1:D5:27:LEU:CD1	1.98	0.92
6:M6:243:ALA:HB2	12:H6:201:CYC:HBB2	1.49	0.92
10:j5:20:VAL:O	10:j5:24:THR:HG22	1.69	0.92
10:j5:971:VAL:N	12:j5:1202:CYC:CGD	2.27	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:966:SER:N	1:p7:14:VAL:CG1	2.32	0.92
10:k5:1015:TYR:OH	8:k7:110:ILE:HG22	1.67	0.92
10:k5:1076:GLU:C	10:k5:1078:SER:N	2.27	0.92
8:i7:43:LEU:HD21	8:i7:149:ALA:HB1	1.52	0.92
3:U8:114:LYS:HZ3	4:M8:13:LYS:CE	1.77	0.92
3:F8:88:ILE:HG12	11:a9:140:GLN:HE21	1.33	0.92
4:M8:128:ALA:C	4:M8:142:PHE:CZ	2.48	0.92
3:J9:88:ILE:CD1	11:a9:512:TYR:CZ	2.51	0.92
12:Y9:201:CYC:HMD1	12:Y9:201:CYC:HC	1.34	0.92
3:HA:116:THR:CG2	11:aA:449:ASN:HD21	1.83	0.92
3:JA:119:ALA:CA	11:aA:365:LYS:HE2	1.99	0.92
4:MA:185:ALA:CA	12:VA:201:CYC:CGA	2.48	0.92
3:B3:127:VAL:HG22	12:B3:202:CYC:H3C	1.52	0.92
3:F4:115:GLU:HG2	4:M4:3:VAL:CB	1.99	0.92
4:M4:57:THR:HA	4:M4:60:LYS:HE3	1.50	0.92
4:M4:144:ARG:CZ	5:Z4:59:ARG:NH1	2.31	0.92
4:M4:217:VAL:CG2	5:Z4:30:PRO:N	2.33	0.92
4:M4:223:GLY:O	12:M4:301:CYC:CBA	2.17	0.92
6:M6:45:ILE:CD1	8:c7:78:THR:HG22	2.00	0.92
10:j5:1118:THR:O	12:j5:1202:CYC:HMA1	1.69	0.92
10:k5:190:LEU:HD21	12:k5:1201:CYC:ND	1.85	0.92
8:c7:43:LEU:HD21	8:c7:149:ALA:HB1	1.52	0.92
12:d7:201:CYC:NB	9:x7:38:PHE:HE1	1.67	0.92
1:f7:10:ASN:OD1	9:y7:64:ASN:ND2	2.03	0.92
8:s7:102:THR:HB	8:s7:103:PRO:HD3	1.48	0.92
3:U8:115:GLU:CG	4:M8:74:LEU:HD12	1.99	0.92
4:M8:91:VAL:HG22	2:P8:14:SER:C	1.94	0.92
4:M8:128:ALA:C	4:M8:142:PHE:HE1	1.72	0.92
12:M8:302:CYC:OC	3:S8:78:ARG:CD	1.91	0.92
5:N9:61:LYS:HZ3	12:T9:301:CYC:HBB2	1.05	0.92
11:aA:795:ASP:O	12:aA:901:CYC:CBB	2.17	0.92
4:MA:274:VAL:CA	3:VA:77:ARG:CD	2.29	0.92
5:NA:50:LEU:CD2	12:TA:301:CYC:O1D	2.17	0.92
12:O1:201:CYC:HMD1	12:O1:201:CYC:HC	1.34	0.92
3:H2:10:VAL:HG13	6:M2:69:ALA:HB1	1.50	0.92
6:M2:279:ASP:O	8:e7:76:LYS:NZ	2.03	0.92
3:Z3:77:ARG:HH21	4:M3:273:ILE:HG12	1.33	0.92
4:M4:93:LEU:C	4:M4:216:ASN:HD21	1.78	0.92
12:N4:201:CYC:HMD1	12:N4:201:CYC:HC	1.34	0.92
12:P4:201:CYC:HMD1	12:P4:201:CYC:HC	1.33	0.92
1:f5:3:ASP:OD2	10:j5:21:MET:HB3	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:931:VAL:CG2	1:J7:29:ALA:O	2.18	0.92
10:k5:20:VAL:O	10:k5:24:THR:HG22	1.69	0.92
1:R7:77:ARG:NH2	9:z7:62:GLY:O	2.01	0.92
12:B7:201:CYC:HMA1	12:B7:201:CYC:NB	1.85	0.92
8:G7:86:ASP:HB2	11:a9:579:PHE:HZ	1.34	0.92
12:L9:201:CYC:HAB2	2:K9:24:LEU:HB3	1.52	0.92
3:H9:126:SER:CB	12:H9:202:CYC:HMC2	1.97	0.92
11:a9:54:ARG:NH1	11:a9:609:LEU:O	2.03	0.92
11:a9:632:ILE:HG22	11:a9:634:ALA:H	0.77	0.92
11:aA:283:GLN:CB	11:aA:284:PRO:HD3	1.91	0.92
4:M1:196:TYR:HB2	2:Y1:14:SER:O	1.70	0.92
12:Y1:201:CYC:HMD1	12:Y1:201:CYC:HC	1.33	0.92
3:JA:88:ILE:CD1	11:aA:512:TYR:CZ	2.53	0.91
3:H3:78:ARG:NH2	11:a9:623:ASP:HB2	1.84	0.91
6:M2:53:LEU:HD21	8:i7:80:LEU:HG	1.51	0.91
3:B1:68:ARG:HH12	3:V1:68:ARG:HH12	1.13	0.91
4:M4:27:HIS:HD1	4:M4:35:THR:N	1.59	0.91
3:Q4:4:ALA:HB2	3:Q4:99:ALA:O	1.70	0.91
8:C5:110:ILE:HD12	9:z5:15:LYS:HB3	1.51	0.91
1:d5:67:ARG:CZ	10:j5:705:THR:OG1	2.19	0.91
10:k5:970:GLY:H	1:n7:77:ARG:NH2	1.66	0.91
8:k7:66:VAL:HG12	11:a9:65:LEU:HD21	1.49	0.91
8:U7:29:PHE:HE1	8:U7:99:GLY:HA3	1.29	0.91
8:q7:66:VAL:HG12	11:aA:65:LEU:CD2	2.00	0.91
12:I8:201:CYC:HMD1	12:I8:201:CYC:HC	1.34	0.91
3:Y8:89:ILE:CA	3:Y8:92:TYR:HE2	1.53	0.91
12:DA:201:CYC:HBA2	11:aA:420:ASN:HB2	1.52	0.91
4:MA:163:ASN:HD21	12:VA:201:CYC:HMA1	1.24	0.91
3:L4:68:ARG:CD	11:aA:81:ASP:CA	2.48	0.91
4:M4:208:GLU:OE1	4:M4:222:ARG:NH2	2.03	0.91
4:M4:232:VAL:HG23	4:M4:235:PHE:HE2	1.35	0.91
3:O4:107:ASP:CG	5:Z4:66:ARG:HB3	1.94	0.91
12:O4:201:CYC:HBA2	5:Z4:50:LEU:HD13	1.52	0.91
1:R5:106:GLU:CD	10:k5:504:ASP:O	2.13	0.91
12:K6:201:CYC:HC	12:K6:201:CYC:HMD1	1.34	0.91
6:M6:127:SER:CB	3:F6:84:ARG:NH2	2.20	0.91
10:j5:386:ILE:CG2	10:j5:395:SER:H	1.83	0.91
10:j5:1050:PHE:HE2	1:r7:107:ARG:HH22	0.96	0.91
10:j5:1151:GLN:HA	1:v7:122:PRO:CB	2.01	0.91
10:k5:1143:LEU:CD1	8:k7:103:PRO:HA	1.99	0.91
12:E6:201:CYC:HMD1	12:E6:201:CYC:HC	1.34	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:H7:201:CYC:HMA1	12:H7:201:CYC:NB	1.85	0.91
8:i7:39:ILE:HD11	8:i7:148:GLU:CG	2.00	0.91
8:u7:2:SER:HB3	1:v7:5:ILE:CG2	1.99	0.91
3:F8:115:GLU:CB	4:M8:3:VAL:HG13	2.00	0.91
3:L8:82:CYS:HB2	12:a9:901:CYC:HMD3	0.96	0.91
12:R8:201:CYC:HMD1	12:R8:201:CYC:HC	1.33	0.91
4:M9:81:ASP:H	3:Z9:111:ASN:ND2	1.68	0.91
5:N9:54:LEU:CD2	3:T9:84:ARG:CD	2.48	0.91
12:D9:201:CYC:HBA2	11:a9:420:ASN:HB2	1.52	0.91
11:a9:348:GLN:H	11:a9:348:GLN:HE21	0.94	0.91
11:a9:709:CYS:O	11:a9:807:GLN:HB2	1.70	0.91
11:aA:589:THR:N	11:aA:590:PRO:HD3	1.80	0.91
11:aA:623:ASP:HA	3:H1:78:ARG:HH12	1.34	0.91
4:M1:120:LEU:HD22	2:Y1:115:GLU:OE2	1.69	0.91
3:LA:14:LEU:CD2	11:aA:358:PRO:CB	1.87	0.91
2:QA:33:ARG:CZ	12:VA:202:CYC:HBB3	1.99	0.91
2:SA:35:THR:C	2:X4:74:TYR:OH	2.12	0.91
12:R1:201:CYC:HB	5:N1:54:LEU:HD12	1.12	0.91
2:K2:14:SER:HA	6:M2:226:ASN:HB2	1.52	0.91
5:N3:22:LEU:CD1	5:N3:26:LEU:CD2	2.47	0.91
5:N3:34:LEU:CB	3:T3:84:ARG:HD3	1.99	0.91
3:H4:84:ARG:CG	11:aA:131:TYR:CE2	2.53	0.91
8:M5:41:GLN:OE1	1:J7:143:PRO:CG	2.17	0.91
8:U5:76:LYS:O	8:U5:79:ALA:N	2.02	0.91
10:j5:631:HIS:HD2	10:j5:664:MET:CE	1.80	0.91
10:j5:1143:LEU:HD12	8:q7:106:GLU:CB	1.89	0.91
10:k5:964:GLY:CA	1:n7:69:GLY:HA3	1.99	0.91
8:c7:42:THR:CG2	8:c7:141:LEU:HD21	1.99	0.91
1:d7:77:ARG:HH22	9:x7:63:ALA:CB	1.70	0.91
4:M9:208:GLU:OE1	4:M9:222:ARG:NH2	2.03	0.91
3:J9:65:ASP:CB	11:a9:354:VAL:HG21	1.99	0.91
3:J9:65:ASP:HB3	11:a9:354:VAL:CG2	2.00	0.91
11:a9:275:THR:C	11:a9:278:LEU:HD11	1.85	0.91
4:MA:185:ALA:HA	12:VA:201:CYC:O2A	1.71	0.91
3:R1:111:ASN:HD21	5:N1:66:ARG:HH12	1.14	0.91
12:J3:202:CYC:HMA1	11:a9:798:SER:HG	1.12	0.91
3:H4:84:ARG:CG	11:aA:131:TYR:CZ	2.53	0.91
8:Y5:9:VAL:HG11	10:k5:344:ARG:CZ	1.98	0.91
1:b5:18:TYR:CE1	10:k5:165:ARG:CD	2.53	0.91
10:k5:289:SER:HB3	10:k5:292:GLU:OE2	1.69	0.91
8:i7:54:ALA:HB2	8:i7:133:MET:HG3	1.51	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T7:106:GLU:CG	9:w7:58:THR:CG2	2.47	0.91
8:o7:5:THR:OG1	1:p7:6:THR:CG2	2.18	0.91
3:F8:112:GLY:HA3	4:M8:4:LEU:HD12	1.51	0.91
3:O8:115:GLU:HB2	5:Z8:70:ILE:O	1.70	0.91
5:Z8:22:LEU:CD1	5:Z8:26:LEU:CD2	2.47	0.91
5:Z8:37:HIS:ND1	12:Z8:301:CYC:NB	2.16	0.91
12:G9:201:CYC:HMD1	12:G9:201:CYC:HC	1.33	0.91
12:I9:201:CYC:HMD1	12:I9:201:CYC:HC	1.33	0.91
3:J9:65:ASP:CB	11:a9:354:VAL:HG22	2.01	0.91
11:a9:99:ALA:HB1	11:a9:100:PRO:CD	1.99	0.91
1:A:161:SER:CB	1:R5:14:VAL:HB	1.91	0.91
5:NA:54:LEU:CD2	3:TA:84:ARG:CD	2.48	0.91
12:B3:202:CYC:HAA1	11:a9:684:ASN:CB	2.00	0.91
5:N3:39:PRO:HG3	3:T3:113:LEU:HD13	1.53	0.91
8:M5:110:ILE:CD1	10:k5:533:LEU:CD1	2.45	0.91
1:N5:110:ASN:ND2	10:k5:692:LEU:C	2.28	0.91
1:D5:62:TYR:OH	12:E5:201:CYC:O1D	1.89	0.91
6:M6:271:VAL:HG21	1:d7:127:VAL:CB	2.00	0.91
10:j5:362:LYS:HD3	10:j5:363:HIS:HD2	1.17	0.91
10:j5:362:LYS:HE2	10:j5:363:HIS:CD2	2.03	0.91
10:k5:934:ALA:HB2	1:D7:32:THR:HG23	1.52	0.91
8:I7:29:PHE:HE1	8:I7:99:GLY:HA3	1.29	0.91
8:o7:37:LEU:HD22	1:p7:24:LEU:CG	2.00	0.91
1:p7:136:VAL:CG1	11:a9:342:ARG:NH1	2.30	0.91
8:q7:76:LYS:HZ2	11:aA:605:PRO:HB3	1.15	0.91
4:M8:140:ARG:HH22	4:M8:210:ILE:HG12	1.33	0.91
3:Q8:84:ARG:HG3	5:Z8:31:TRP:CD1	2.05	0.91
3:F1:119:ALA:CB	4:M1:41:ASN:HD21	1.81	0.91
3:H9:113:LEU:HD21	12:H9:202:CYC:HMB1	1.51	0.91
5:N1:39:PRO:HG3	3:T1:113:LEU:HD13	1.53	0.91
3:HA:113:LEU:CD1	12:HA:202:CYC:CMB	2.48	0.91
2:KA:24:LEU:HB3	12:LA:201:CYC:HAB2	1.52	0.91
12:UA:201:CYC:HMD1	12:UA:201:CYC:HC	1.33	0.91
12:I2:201:CYC:HMD1	12:I2:201:CYC:HC	1.34	0.91
4:M4:128:ALA:O	4:M4:142:PHE:CE1	2.23	0.91
4:M4:210:ILE:CD1	5:Z4:26:LEU:CD2	2.49	0.91
3:Q4:102:ALA:HB2	3:Q4:166:LYS:HE2	0.93	0.91
2:K6:14:SER:HA	6:M6:226:ASN:HB2	1.52	0.91
6:M6:277:GLY:C	1:d7:62:TYR:O	2.12	0.91
10:j5:1076:GLU:C	10:j5:1078:SER:N	2.27	0.91
12:j5:1202:CYC:HMA1	12:j5:1202:CYC:NB	1.84	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q7:25:ARG:CD	8:C7:25:ARG:NH2	2.34	0.91
8:c7:39:ILE:HD11	8:c7:148:GLU:CG	2.01	0.91
12:B8:202:CYC:CMA	4:M8:58:TYR:CB	2.48	0.91
2:N8:115:GLU:CA	5:Z8:32:PRO:HB2	2.00	0.91
3:Q8:120:LEU:HB3	5:Z8:39:PRO:O	1.69	0.91
5:N9:22:LEU:HD13	5:N9:26:LEU:CD2	1.99	0.91
3:F9:68:ARG:NH1	3:Z9:68:ARG:HH22	1.69	0.91
11:aA:710:THR:CG2	11:aA:807:GLN:CB	2.47	0.91
11:aA:711:SER:CB	3:L1:111:ASN:O	2.18	0.91
4:MA:81:ASP:H	3:ZA:111:ASN:ND2	1.68	0.91
3:L2:77:ARG:HH12	6:M2:70:GLU:HG2	1.35	0.91
6:M2:39:ARG:HE	8:O5:66:VAL:CG1	1.83	0.91
3:B4:116:THR:H	4:M4:56:MET:HG2	1.35	0.91
4:M3:144:ARG:NH2	5:N3:52:ARG:NH2	2.19	0.91
4:M4:95:ALA:HB2	5:Z4:38:GLU:HB2	1.52	0.91
10:k5:989:THR:HG22	8:a7:106:GLU:OE2	1.70	0.91
8:K7:25:ARG:HE	8:U7:25:ARG:NH2	1.68	0.91
8:u7:29:PHE:HE2	1:v7:31:PHE:CE1	1.85	0.91
9:y7:3:ARG:CZ	9:y7:67:VAL:HG11	1.98	0.91
12:T8:201:CYC:HMD1	12:T8:201:CYC:HC	1.33	0.91
12:M8:301:CYC:HMB2	3:Y8:89:ILE:HG13	1.53	0.91
4:M9:158:PHE:C	3:V9:108:ARG:HG3	1.96	0.91
11:a9:643:LEU:H	11:a9:643:LEU:HD12	1.31	0.91
3:H1:78:ARG:HA	12:H1:201:CYC:HMD1	1.52	0.91
4:M1:118:TYR:OH	3:X1:85:ASP:OD1	1.89	0.91
5:NA:22:LEU:HD13	5:NA:26:LEU:CD2	1.99	0.91
12:QA:201:CYC:HMD1	12:QA:201:CYC:HC	1.33	0.91
12:C3:201:CYC:HMD1	12:C3:201:CYC:HC	1.33	0.91
3:Z3:111:ASN:OD1	4:M3:258:LYS:NZ	2.04	0.91
12:B4:202:CYC:CMA	4:M4:58:TYR:CB	2.48	0.91
4:M3:81:ASP:H	3:X3:111:ASN:HD22	1.16	0.91
5:N3:74:GLU:HA	3:P3:111:ASN:HD21	1.35	0.91
3:B1:108:ARG:O	4:M1:6:THR:CG2	2.18	0.91
2:P4:19:LEU:HD21	3:Q4:95:TYR:CE1	2.04	0.91
12:P5:201:CYC:HBB2	10:k5:623:VAL:CG2	2.01	0.91
9:z5:11:ILE:HD12	9:z5:28:PHE:HE2	1.36	0.91
9:i5:11:ILE:HD12	9:i5:28:PHE:HE2	1.36	0.91
10:j5:190:LEU:HD21	12:j5:1201:CYC:ND	1.86	0.91
10:j5:277:ILE:HG23	10:j5:284:PRO:HA	1.53	0.91
10:j5:307:ARG:NH1	10:j5:346:GLU:OE1	2.04	0.91
10:j5:938:GLN:OE1	1:J7:28:LYS:HD2	1.65	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1008:PHE:CZ	1:v7:87:TYR:CZ	2.40	0.91
10:k5:388:ARG:HB3	10:k5:388:ARG:NH2	1.84	0.91
10:k5:1059:VAL:O	10:k5:1063:THR:HG23	1.71	0.91
10:k5:1150:TYR:HE1	11:a9:38:VAL:CG2	1.84	0.91
1:T7:14:VAL:HG12	9:w7:64:ASN:ND2	1.84	0.91
3:O8:107:ASP:HA	5:Z8:66:ARG:HB2	1.53	0.91
4:M9:53:LEU:CD1	12:F9:301:CYC:HB	1.67	0.91
11:aA:99:ALA:HB1	11:aA:100:PRO:CD	1.99	0.91
11:aA:426:ARG:NH2	11:aA:496:ARG:HD3	1.84	0.91
12:IA:201:CYC:HMD1	12:IA:201:CYC:HC	1.33	0.91
12:J3:202:CYC:CBB	11:a9:795:ASP:O	2.19	0.91
5:Z4:31:TRP:HB3	5:Z4:32:PRO:HD2	1.50	0.91
1:B5:10:ASN:OD1	10:k5:557:VAL:CG2	2.19	0.91
1:J5:71:MEN:C	1:J5:77:ARG:NH1	2.22	0.91
1:b5:3:ASP:OD2	10:k5:21:MET:HB2	1.68	0.91
10:j5:36:ASN:HB2	10:j5:39:GLU:HB2	1.51	0.91
10:j5:931:VAL:CG2	1:J7:29:ALA:C	2.42	0.91
10:j5:1059:VAL:O	10:j5:1063:THR:HG23	1.71	0.91
10:k5:362:LYS:HD3	10:k5:363:HIS:HD2	1.17	0.91
10:k5:1025:LEU:HA	10:k5:1030:ILE:HG22	1.49	0.91
10:k5:1147:TYR:CE2	11:a9:39:PRO:HB3	2.05	0.91
12:G6:201:CYC:HMD1	12:G6:201:CYC:HC	1.33	0.91
8:i7:94:TYR:CE2	1:j7:9:ILE:HG23	2.05	0.91
8:a7:10:ASN:HD22	8:o7:10:ASN:ND2	1.69	0.91
1:f7:10:ASN:CG	9:y7:65:THR:OG1	2.13	0.91
3:B8:113:LEU:HB2	4:M8:60:LYS:HE2	1.53	0.91
12:K8:201:CYC:HMD1	12:K8:201:CYC:HC	1.34	0.91
3:Q8:110:LEU:CD2	3:Q8:167:ALA:HA	2.00	0.91
12:K9:201:CYC:HMD1	12:K9:201:CYC:HC	1.34	0.91
3:JA:116:THR:OG1	11:aA:521:PHE:HB3	1.71	0.91
4:MA:159:CYS:CA	3:VA:108:ARG:HG3	2.01	0.91
12:G2:201:CYC:HMD1	12:G2:201:CYC:HC	1.33	0.91
12:K2:201:CYC:HMD1	12:K2:201:CYC:HC	1.34	0.91
12:E3:201:CYC:HMD1	12:E3:201:CYC:HC	1.33	0.91
3:B4:82:CYS:HA	12:B4:202:CYC:NC	1.86	0.91
12:S3:201:CYC:HMD1	12:S3:201:CYC:HC	1.34	0.91
4:M4:144:ARG:CG	4:M4:204:ILE:HD13	1.99	0.91
3:Y4:87:GLU:HG2	3:Y4:91:ARG:NH1	1.86	0.91
1:D5:71:MEN:C	1:D5:77:ARG:NH1	2.22	0.91
12:P5:201:CYC:OB	10:k5:623:VAL:HB	1.70	0.91
10:j5:1118:THR:HG23	12:j5:1202:CYC:O2A	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:1016:LEU:HD12	10:k5:1017:ARG:H	1.15	0.91
1:Z7:67:ARG:CD	11:a9:311:LEU:CD2	2.34	0.91
9:x7:3:ARG:CZ	9:x7:67:VAL:HG11	1.98	0.91
3:F8:107:ASP:CB	4:M8:8:SER:H	1.83	0.91
3:H8:81:ALA:HA	3:H8:84:ARG:HE	1.33	0.91
4:M8:215:GLU:OE1	5:Z8:27:ALA:CB	2.19	0.91
4:M9:181:GLN:NE2	3:V9:120:LEU:CD2	2.34	0.91
4:M9:190:ARG:HH11	4:M9:202:SER:CB	1.84	0.91
4:M9:263:PRO:CB	3:V9:119:ALA:HB3	1.99	0.91
12:E9:201:CYC:HMD1	12:E9:201:CYC:HC	1.34	0.91
11:a9:681:LEU:O	11:a9:684:ASN:OD1	1.87	0.91
12:C2:201:CYC:HMD1	12:C2:201:CYC:HC	1.34	0.91
3:FA:37:ARG:NH2	3:FA:159:GLU:OE1	2.04	0.90
3:JA:65:ASP:HB3	11:aA:354:VAL:CG2	2.00	0.90
4:M3:80:PRO:HA	3:X3:111:ASN:HD21	1.36	0.90
2:U3:141:GLN:CA	2:Q9:76:ASP:H	1.82	0.90
10:j5:388:ARG:NH2	10:j5:388:ARG:HB3	1.84	0.90
8:a7:63:PRO:HD2	11:a9:336:ILE:HG21	0.93	0.90
8:o7:23:LEU:CB	1:p7:38:VAL:HG11	1.74	0.90
12:H8:201:CYC:HBB2	11:a9:259:ALA:CB	2.00	0.90
4:M8:128:ALA:O	4:M8:142:PHE:HE1	1.43	0.90
4:M9:159:CYS:CA	3:V9:108:ARG:HG3	2.01	0.90
12:J9:202:CYC:HB	11:a9:512:TYR:HB2	1.09	0.90
11:a9:287:ALA:O	11:a9:288:ARG:NE	2.03	0.90
11:aA:275:THR:N	11:aA:278:LEU:HD11	1.84	0.90
12:K1:201:CYC:HMD1	12:K1:201:CYC:HC	1.34	0.90
12:JA:202:CYC:HB	11:aA:512:TYR:HB2	1.08	0.90
4:MA:133:ARG:HB3	12:RA:201:CYC:HBA2	1.51	0.90
4:MA:208:GLU:OE1	4:MA:222:ARG:NH2	2.03	0.90
12:OA:201:CYC:HMD1	12:OA:201:CYC:HC	1.33	0.90
12:QA:201:CYC:CBA	3:TA:67:ILE:HG21	2.02	0.90
6:M2:37:GLU:OE2	6:M2:39:ARG:NH1	2.04	0.90
12:B4:202:CYC:HBB2	4:M4:61:ASN:HB3	0.92	0.90
12:U3:201:CYC:HMD1	12:U3:201:CYC:HC	1.33	0.90
3:L4:88:ILE:CD1	11:aA:239:TYR:CE2	2.54	0.90
4:M4:141:GLU:O	4:M4:145:LEU:N	2.03	0.90
8:K5:23:LEU:HD13	8:U5:151:PHE:CE1	2.05	0.90
12:B5:201:CYC:HMA1	12:B5:201:CYC:NB	1.85	0.90
1:d5:28:LYS:HD2	1:n7:143:PRO:HG3	0.94	0.90
10:j5:232:ARG:HB2	10:j5:232:ARG:CZ	2.00	0.90
10:k5:1119:LEU:HD22	1:n7:87:TYR:OH	1.70	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B7:54:GLU:OE2	11:a9:563:PHE:CD2	2.23	0.90
1:j7:77:ARG:NH2	9:y7:63:ALA:CB	2.34	0.90
8:c7:36:ARG:NH1	8:m7:24:ASP:OD2	2.03	0.90
8:o7:17:TYR:HD2	1:p7:93:THR:HG21	1.25	0.90
8:o7:29:PHE:CE2	1:p7:31:PHE:CZ	2.60	0.90
12:V8:201:CYC:HC	12:V8:201:CYC:HMD1	1.33	0.90
3:H8:81:ALA:CB	3:H8:84:ARG:HH21	1.84	0.90
3:H8:84:ARG:CD	11:a9:131:TYR:CD1	2.32	0.90
3:Q8:78:ARG:NH1	12:Z8:301:CYC:CGD	2.34	0.90
12:A9:201:CYC:HMD1	12:A9:201:CYC:HC	1.33	0.90
11:a9:249:GLU:C	11:a9:285:VAL:HG21	1.95	0.90
11:a9:312:ASP:CA	11:a9:315:LEU:HB2	1.77	0.90
11:a9:681:LEU:HA	11:a9:684:ASN:ND2	1.85	0.90
11:aA:476:ARG:HH11	11:aA:488:SER:HB3	1.32	0.90
1:Z:73:TYR:CE1	10:j5:162:TRP:CH2	2.45	0.90
4:MA:157:PHE:C	3:VA:108:ARG:HD2	1.95	0.90
4:MA:274:VAL:CG1	3:VA:77:ARG:NE	2.33	0.90
3:J3:84:ARG:NH2	11:a9:670:LEU:CA	2.34	0.90
6:M2:53:LEU:HD23	8:i7:80:LEU:HD23	1.53	0.90
3:B1:91:ARG:CZ	11:aA:677:GLN:HE22	1.80	0.90
12:B1:202:CYC:HAA1	11:aA:684:ASN:CB	2.01	0.90
4:M4:217:VAL:HG22	5:Z4:30:PRO:CG	2.00	0.90
3:O4:107:ASP:HB3	5:Z4:66:ARG:HB3	0.91	0.90
12:X4:201:CYC:HMD1	12:X4:201:CYC:HC	1.33	0.90
1:f5:1:MET:O	10:j5:15:ARG:NH1	2.05	0.90
1:Z5:28:LYS:HD2	1:t7:143:PRO:HG3	0.92	0.90
12:C6:201:CYC:HMD1	12:C6:201:CYC:HC	1.34	0.90
8:a7:107:ILE:HD13	1:b7:13:ASP:CG	1.97	0.90
3:H8:111:ASN:OD1	11:a9:291:TYR:OH	1.73	0.90
4:M8:251:ASN:H	4:M8:251:ASN:HD22	1.16	0.90
12:P8:201:CYC:HMD1	12:P8:201:CYC:HC	1.34	0.90
4:M9:133:ARG:HB3	12:R9:201:CYC:HBA2	1.51	0.90
3:H9:82:CYS:SG	12:H9:202:CYC:CAC	2.59	0.90
11:a9:377:VAL:O	11:a9:391:VAL:HG22	1.71	0.90
4:M1:118:TYR:CD2	3:X1:84:ARG:NH2	2.38	0.90
4:M1:181:GLN:NE2	3:Z1:120:LEU:HD21	1.84	0.90
3:HA:119:ALA:HA	8:S7:49:ARG:HH12	0.78	0.90
3:JA:114:LYS:HG2	8:S7:60:GLN:NE2	1.85	0.90
3:JA:119:ALA:CB	11:aA:365:LYS:HE2	2.01	0.90
12:SA:201:CYC:HMD1	12:SA:201:CYC:HC	1.33	0.90
3:J2:119:ALA:HB1	6:M2:260:THR:C	1.95	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D4:116:THR:OG1	4:M4:38:PRO:HB2	1.71	0.90
3:H4:111:ASN:OD1	11:aA:291:TYR:OH	1.74	0.90
12:M4:301:CYC:NC	3:Y4:72:ASN:OD1	2.04	0.90
3:O4:119:ALA:CB	5:Z4:72:GLU:CG	2.16	0.90
8:K5:80:LEU:HD12	12:K5:201:CYC:HAD2	1.44	0.90
10:j5:971:VAL:HG12	1:t7:76:ARG:HH12	1.33	0.90
10:k5:1050:PHE:HZ	1:l7:107:ARG:NH1	1.30	0.90
8:K7:25:ARG:HB3	8:U7:25:ARG:HH21	1.33	0.90
12:g7:201:CYC:HMA1	12:g7:201:CYC:HB	1.37	0.90
8:i7:112:VAL:HG13	8:i7:113:LYS:N	1.85	0.90
12:C9:201:CYC:HMD1	12:C9:201:CYC:HC	1.34	0.90
11:a9:280:ASP:CG	11:a9:281:PRO:CD	2.44	0.90
5:N1:34:LEU:HB2	3:T1:84:ARG:HD3	1.53	0.90
3:DA:115:GLU:CD	4:MA:76:ALA:O	2.15	0.90
3:P1:111:ASN:HD21	5:N1:74:GLU:HA	1.35	0.90
4:M3:208:GLU:OE1	4:M3:222:ARG:NH2	2.03	0.90
1:B5:2:GLN:OE1	10:k5:551:MET:HE3	1.72	0.90
1:b5:34:GLY:HA3	10:k5:47:PHE:CD2	2.06	0.90
3:J6:119:ALA:HB1	6:M6:260:THR:C	1.95	0.90
10:j5:964:GLY:HA2	1:t7:69:GLY:HA3	1.54	0.90
10:j5:1125:ARG:NH2	1:t7:114:GLU:HB3	1.85	0.90
10:j5:1147:TYR:CE2	11:aA:39:PRO:HB3	2.06	0.90
10:k5:277:ILE:HG23	10:k5:284:PRO:HA	1.53	0.90
10:k5:307:ARG:NH1	10:k5:346:GLU:OE1	2.04	0.90
10:k5:322:LYS:HD2	10:k5:336:ARG:HH12	1.34	0.90
10:k5:1008:PHE:CE1	12:p7:201:CYC:C4B	2.55	0.90
12:I7:201:CYC:HMA1	12:I7:201:CYC:HB	1.37	0.90
8:i7:42:THR:CG2	8:i7:141:LEU:HD21	1.99	0.90
1:f7:67:ARG:CG	11:aA:311:LEU:HD22	2.02	0.90
4:M8:98:ASP:C	3:Q8:1:MET:HE1	1.97	0.90
4:M8:214:GLY:H	5:Z8:28:HIS:CE1	1.85	0.90
2:N8:112:GLY:N	5:Z8:34:LEU:N	2.19	0.90
4:M9:181:GLN:CD	3:V9:120:LEU:HD21	1.94	0.90
6:M2:57:GLU:OE2	8:i7:76:LYS:NZ	2.04	0.90
12:B4:202:CYC:CBB	4:M4:61:ASN:HB3	1.85	0.90
3:L3:77:ARG:HD3	11:a9:824:VAL:C	1.97	0.90
4:M4:190:ARG:HH11	4:M4:202:SER:CB	1.84	0.90
4:M4:228:SER:HB2	2:X4:16:GLY:HA2	0.92	0.90
10:j5:1043:GLU:HG2	8:e7:14:GLU:OE2	1.70	0.90
10:j5:1124:TYR:CZ	1:t7:119:LEU:HD21	2.06	0.90
1:B7:140:LEU:CD1	11:a9:561:ALA:HA	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i7:92:VAL:HG23	8:i7:156:LEU:HD11	1.53	0.90
4:M8:208:GLU:OE1	4:M8:222:ARG:NH2	2.03	0.90
5:Z8:41:GLN:HB3	12:Z8:301:CYC:NB	1.85	0.90
11:aA:249:GLU:C	11:aA:285:VAL:HG21	1.95	0.90
11:aA:312:ASP:C	11:aA:315:LEU:H	1.74	0.90
11:aA:798:SER:OG	12:aA:901:CYC:HAA1	1.72	0.90
2:QA:119:THR:HB	3:TA:83:LEU:HD13	0.92	0.90
8:M5:41:GLN:CD	1:J7:143:PRO:CG	2.42	0.90
10:j5:931:VAL:HG22	1:J7:30:TYR:N	1.86	0.90
10:k5:725:LEU:C	10:k5:725:LEU:HD23	1.96	0.90
8:a7:52:LYS:CD	11:a9:321:ALA:HB1	2.01	0.90
8:a7:161:GLN:CD	1:p7:49:THR:HG22	1.96	0.90
4:M8:232:VAL:HG23	4:M8:235:PHE:HE2	1.35	0.90
3:O8:104:VAL:C	5:Z8:61:LYS:HE2	1.96	0.90
4:M9:76:ALA:O	3:D9:115:GLU:CD	2.15	0.90
11:aA:106:LEU:HB2	11:aA:118:VAL:HG21	1.54	0.90
11:aA:287:ALA:O	11:aA:288:ARG:NE	2.03	0.90
11:aA:745:GLY:CA	2:K1:15:GLN:CA	2.49	0.90
3:F2:84:ARG:NH1	12:F2:201:CYC:O2A	2.04	0.90
3:HA:82:CYS:SG	12:HA:202:CYC:CAC	2.60	0.90
2:QA:71:GLN:N	2:QA:74:TYR:CD2	2.39	0.90
2:K3:112:GLY:HA3	11:a9:670:LEU:CD2	2.01	0.90
12:A5:201:CYC:HMA1	12:A5:201:CYC:HB	1.37	0.90
12:c5:201:CYC:HB	12:c5:201:CYC:HMA1	1.37	0.90
12:S5:201:CYC:HB	12:S5:201:CYC:HMA1	1.37	0.90
10:k5:1153:VAL:CG2	1:p7:125:ALA:HB1	1.94	0.90
12:O7:201:CYC:HB	12:O7:201:CYC:HMA1	1.37	0.90
12:C8:201:CYC:HMD1	12:C8:201:CYC:HC	1.33	0.90
3:J9:109:CYS:C	11:a9:518:ALA:HB2	1.95	0.90
11:aA:61:TYR:HD1	11:aA:65:LEU:HD22	1.35	0.90
11:aA:621:THR:HG23	3:J1:14:LEU:HD22	1.53	0.90
4:M1:208:GLU:OE1	4:M1:222:ARG:NH2	2.03	0.90
12:W1:201:CYC:HMD1	12:W1:201:CYC:HC	1.34	0.90
3:HA:113:LEU:HD21	12:HA:202:CYC:CMB	2.00	0.90
4:MA:181:GLN:NE2	3:VA:120:LEU:CD2	2.34	0.90
3:L2:65:ASP:OD1	1:h7:64:ASP:OD2	1.90	0.90
3:L3:119:ALA:HB1	11:a9:813:PRO:C	1.96	0.90
3:B1:86:MET:HG3	12:B1:202:CYC:HBC1	1.53	0.90
2:E4:1:MET:CA	4:M4:10:ARG:HH21	1.85	0.90
4:M4:56:MET:SD	4:M4:66:VAL:HG21	2.11	0.90
4:M4:215:GLU:CD	4:M4:215:GLU:O	2.15	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C5:27:LYS:HA	8:C5:30:VAL:CG2	2.01	0.90
8:I5:27:LYS:HA	8:I5:30:VAL:CG2	2.01	0.90
1:d5:110:ASN:ND2	10:j5:451:LYS:CB	2.31	0.90
1:d5:110:ASN:O	10:j5:352:ILE:CD1	2.20	0.90
1:f5:18:TYR:CE2	10:j5:165:ARG:CB	2.55	0.90
12:P5:201:CYC:O2A	10:k5:649:PHE:CD2	2.25	0.90
8:Q5:159:ALA:O	8:Q5:160:MET:O	1.90	0.90
10:k5:480:GLU:OE1	10:k5:689:GLY:HA3	1.72	0.90
10:k5:741:GLN:C	1:D7:77:ARG:NH2	2.29	0.90
10:k5:971:VAL:H	12:k5:1204:CYC:CGD	1.81	0.90
8:Q7:19:SER:HB3	8:C7:6:LYS:HZ1	1.37	0.90
1:R7:118:SER:O	9:z7:61:GLN:HG2	1.72	0.90
8:i7:3:VAL:HG11	8:s7:25:ARG:HH21	1.36	0.90
1:j7:77:ARG:HH22	9:y7:63:ALA:HB3	1.21	0.90
8:q7:76:LYS:HZ1	11:aA:605:PRO:CB	1.82	0.90
3:J9:116:THR:OG1	11:a9:521:PHE:HB3	1.70	0.90
3:J9:119:ALA:CB	11:a9:365:LYS:HE2	2.02	0.90
11:a9:312:ASP:HA	11:a9:315:LEU:CA	2.02	0.90
11:a9:589:THR:N	11:a9:590:PRO:CD	2.32	0.90
11:a9:635:VAL:HG11	11:a9:795:ASP:OD2	1.72	0.90
5:N1:22:LEU:CG	5:N1:26:LEU:HD21	2.02	0.90
3:LA:52:ILE:CD1	3:LA:87:GLU:CA	2.49	0.90
4:MA:192:GLN:HG2	3:VA:84:ARG:HG3	1.54	0.90
12:J3:202:CYC:C4B	11:a9:666:ASN:CB	2.42	0.90
3:L3:84:ARG:HH11	11:a9:739:ASP:HB2	1.37	0.90
4:M3:5:THR:O	4:M3:6:THR:OG1	1.90	0.90
4:M3:118:TYR:OH	3:X3:85:ASP:OD1	1.89	0.90
12:E4:201:CYC:HMD1	12:E4:201:CYC:HC	1.33	0.90
12:K4:201:CYC:HMD1	12:K4:201:CYC:HC	1.34	0.90
3:O4:111:ASN:O	5:Z4:67:ILE:HG21	1.71	0.90
12:O4:201:CYC:HMA3	5:Z4:53:LEU:CD1	2.02	0.90
1:f5:19:LEU:HD12	10:j5:172:LEU:HD11	1.52	0.90
12:W5:201:CYC:HB	12:W5:201:CYC:HMA1	1.37	0.90
10:k5:152:ARG:NH2	10:k5:193:SER:HB2	1.86	0.90
8:c7:112:VAL:HG13	8:c7:113:LYS:N	1.85	0.90
12:d7:201:CYC:HBB1	9:x7:42:GLN:OE1	1.68	0.90
8:s7:29:PHE:HE1	8:s7:99:GLY:HA3	1.29	0.90
4:M8:99:VAL:HB	3:Q8:1:MET:HE2	1.52	0.90
2:N8:115:GLU:CB	5:Z8:32:PRO:HB2	2.00	0.90
5:Z8:41:GLN:HG3	12:Z8:301:CYC:C4B	1.98	0.90
3:H9:78:ARG:HH11	12:H9:202:CYC:CGD	1.84	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:61:TYR:HD1	11:a9:65:LEU:HD22	1.35	0.90
11:aA:476:ARG:NH1	11:aA:488:SER:HB2	1.78	0.90
11:aA:738:LEU:HD13	12:aA:902:CYC:NB	1.86	0.90
11:aA:745:GLY:HA3	2:K1:15:GLN:HA	0.94	0.90
11:aA:813:PRO:C	3:L1:119:ALA:HB1	1.97	0.90
3:FA:36:LYS:HB3	3:FA:156:LEU:CD1	2.02	0.89
3:FA:150:ARG:N	3:F9:150:ARG:HG3	1.86	0.89
4:MA:190:ARG:HH11	4:MA:202:SER:CB	1.84	0.89
5:NA:22:LEU:HD23	5:NA:26:LEU:HD11	0.89	0.89
12:QA:201:CYC:CBA	3:TA:79:MET:HE3	2.02	0.89
2:K3:14:SER:HA	11:a9:746:TYR:HB2	1.52	0.89
5:N3:54:LEU:HD11	12:R3:201:CYC:C4B	2.00	0.89
3:H4:84:ARG:HD3	11:aA:131:TYR:CE1	2.06	0.89
4:M4:101:ASP:HA	2:P4:13:ASP:HB3	0.90	0.89
8:W5:12:ASP:CB	1:X5:94:TYR:HE2	1.80	0.89
1:b5:18:TYR:OH	10:k5:161:ASP:O	1.90	0.89
12:U7:201:CYC:HB	12:U7:201:CYC:HMA1	1.37	0.89
12:u7:201:CYC:HB	12:u7:201:CYC:HMA1	1.37	0.89
4:M8:5:THR:O	4:M8:6:THR:OG1	1.90	0.89
11:aA:280:ASP:CG	11:aA:281:PRO:CD	2.44	0.89
11:aA:629:LYS:HA	11:aA:629:LYS:NZ	1.86	0.89
4:M1:144:ARG:NH2	5:N1:52:ARG:NH2	2.19	0.89
5:N1:22:LEU:HD23	5:N1:26:LEU:HD11	0.90	0.89
2:SA:35:THR:HG22	2:X4:74:TYR:CZ	1.89	0.89
2:A4:33:ARG:NH2	2:K4:28:ASN:CG	2.31	0.89
8:O5:76:LYS:CG	8:O5:77:MET:N	2.35	0.89
12:G5:201:CYC:HB	12:G5:201:CYC:HMA1	1.37	0.89
2:X8:28:ASN:CG	2:N8:33:ARG:NH2	2.30	0.89
2:N8:111:ALA:CB	5:Z8:34:LEU:HG	2.03	0.89
5:N9:53:LEU:HB3	12:T9:301:CYC:CAA	2.02	0.89
2:O9:33:ARG:NH2	2:Y9:28:ASN:CG	2.30	0.89
11:a9:312:ASP:HA	11:a9:315:LEU:N	1.87	0.89
11:aA:632:ILE:HG21	11:aA:634:ALA:HB2	1.55	0.89
12:QA:201:CYC:O2D	3:TA:57:HIS:HD2	1.40	0.89
2:Q1:14:SER:HB2	5:N1:62:ARG:NH2	1.86	0.89
3:B3:68:ARG:HH12	3:V3:68:ARG:HH12	1.13	0.89
5:N3:62:ARG:NH2	2:Q3:14:SER:HB2	1.86	0.89
12:J4:202:CYC:HMD1	12:J4:202:CYC:NC	1.88	0.89
8:G5:115:MET:CE	12:G5:201:CYC:CHB	2.50	0.89
1:J5:39:ARG:O	1:J5:40:ALA:C	2.14	0.89
8:U5:79:ALA:O	6:M6:31:ASP:HB2	1.73	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M6:65:VAL:HG12	1:b7:59:ALA:O	1.71	0.89
10:j5:990:ARG:HE	10:j5:1026:LYS:HZ3	1.19	0.89
10:k5:77:VAL:HG22	10:k5:141:GLU:HB3	1.54	0.89
8:c7:25:ARG:HH22	8:m7:6:LYS:HZ3	1.13	0.89
12:e7:201:CYC:HB	12:e7:201:CYC:HMA1	1.37	0.89
12:A8:201:CYC:HMD1	12:A8:201:CYC:HC	1.33	0.89
12:o7:201:CYC:HMA1	12:o7:201:CYC:HB	1.37	0.89
12:F8:201:CYC:HMD1	12:F8:201:CYC:NC	1.88	0.89
5:Z8:22:LEU:CG	5:Z8:26:LEU:HD21	2.02	0.89
3:J9:119:ALA:HB1	11:a9:365:LYS:HE2	1.51	0.89
11:a9:710:THR:HG22	11:a9:807:GLN:HG3	1.40	0.89
1:Z:131:GLN:HG3	1:X5:17:LYS:HZ2	1.13	0.89
3:FA:68:ARG:NH1	3:ZA:68:ARG:HH22	1.69	0.89
4:MA:274:VAL:HG12	3:VA:77:ARG:NE	1.87	0.89
4:M3:190:ARG:HH11	4:M3:202:SER:CB	1.84	0.89
4:M4:5:THR:O	4:M4:6:THR:OG1	1.90	0.89
8:e5:49:ARG:NH2	1:R5:50:THR:HG21	1.87	0.89
1:f5:18:TYR:OH	10:j5:165:ARG:HB2	1.72	0.89
1:R5:106:GLU:HG3	10:k5:505:VAL:HA	1.55	0.89
8:W5:159:ALA:O	8:W5:160:MET:O	1.90	0.89
10:j5:987:ASP:O	1:h7:106:GLU:OE2	1.90	0.89
10:k5:742:GLY:CA	12:D7:201:CYC:CGD	2.50	0.89
10:k5:987:ASP:O	1:b7:106:GLU:OE2	1.90	0.89
2:A6:63:PHE:CB	2:A6:66:LEU:HD11	2.03	0.89
1:H7:136:VAL:CG1	11:aA:563:PHE:CZ	2.55	0.89
8:g7:107:ILE:HD13	1:h7:13:ASP:CG	1.97	0.89
12:a7:201:CYC:HB	12:a7:201:CYC:HMA1	1.37	0.89
12:b7:201:CYC:HBB2	9:x7:21:ARG:HD3	1.54	0.89
8:m7:29:PHE:HE1	8:m7:99:GLY:HA3	1.29	0.89
12:s7:201:CYC:HMA1	12:s7:201:CYC:HB	1.37	0.89
9:y7:3:ARG:CZ	9:y7:67:VAL:HG13	1.98	0.89
12:G8:201:CYC:HMD1	12:G8:201:CYC:HC	1.33	0.89
4:M8:141:GLU:HA	4:M8:144:ARG:HE	1.36	0.89
3:L9:112:GLY:C	11:a9:532:ALA:HB3	1.98	0.89
11:a9:99:ALA:HB3	11:a9:100:PRO:CD	1.99	0.89
2:IA:113:LEU:HD21	2:IA:161:LEU:CD2	2.02	0.89
12:QA:201:CYC:HBB2	3:TA:75:PRO:HA	1.53	0.89
2:O1:33:ARG:NH2	2:Y1:28:ASN:CG	2.31	0.89
2:O1:63:PHE:CB	2:O1:66:LEU:HD11	2.03	0.89
4:M4:144:ARG:NE	4:M4:204:ILE:HG21	1.74	0.89
3:Y4:88:ILE:CG2	3:Y4:91:ARG:NH2	2.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z5:67:ARG:HH12	10:k5:705:THR:HB	1.35	0.89
10:k5:386:ILE:CG2	10:k5:395:SER:H	1.83	0.89
10:k5:988:ALA:CA	1:b7:106:GLU:OE2	2.19	0.89
12:B6:201:CYC:HMD1	12:B6:201:CYC:NC	1.88	0.89
8:c7:12:ASP:HA	1:d7:90:ARG:NH1	1.87	0.89
3:U8:115:GLU:HB3	4:M8:74:LEU:HD11	0.91	0.89
3:L8:113:LEU:HD21	12:a9:901:CYC:HMB3	1.51	0.89
4:M8:92:GLU:CG	4:M8:217:VAL:HG22	2.02	0.89
4:M9:188:LEU:CD2	12:V9:201:CYC:HB	1.85	0.89
4:M9:251:ASN:H	4:M9:251:ASN:HD22	1.16	0.89
3:H1:109:CYS:HA	12:H1:201:CYC:HBB1	1.53	0.89
4:M1:190:ARG:HH11	4:M1:202:SER:CB	1.84	0.89
3:TA:25:ASN:CB	2:X4:65:TYR:N	2.32	0.89
12:XA:202:CYC:HMD1	12:XA:202:CYC:NC	1.88	0.89
12:H2:201:CYC:HBB2	6:M2:243:ALA:CB	2.03	0.89
3:F4:91:ARG:HH22	11:aA:140:GLN:NE2	1.65	0.89
2:P4:19:LEU:CD1	3:Q4:95:TYR:CE1	2.55	0.89
12:O5:201:CYC:HB	12:O5:201:CYC:HMA1	1.37	0.89
8:A5:115:MET:CE	12:A5:201:CYC:CHB	2.50	0.89
1:d5:161:SER:CB	10:j5:695:GLY:C	2.44	0.89
2:K6:28:ASN:CG	2:A6:33:ARG:NH2	2.31	0.89
6:M6:278:ARG:H	1:d7:62:TYR:HB3	1.37	0.89
10:j5:152:ARG:NH2	10:j5:193:SER:HB2	1.87	0.89
10:j5:1020:GLU:N	1:f7:87:TYR:OH	2.06	0.89
12:B8:202:CYC:HMA2	4:M8:58:TYR:H	0.72	0.89
3:F8:107:ASP:O	4:M8:6:THR:HB	1.73	0.89
3:H8:84:ARG:CD	11:a9:131:TYR:CE2	2.55	0.89
2:E9:2:LYS:HZ3	2:I9:17:ARG:NH1	1.61	0.89
2:AA:63:PHE:CB	2:AA:66:LEU:HD11	2.03	0.89
12:O1:201:CYC:HBB3	3:R1:74:TYR:CE1	2.07	0.89
12:Q1:201:CYC:HMD1	12:Q1:201:CYC:HC	1.34	0.89
2:K3:28:ASN:CG	2:A3:33:ARG:NH2	2.31	0.89
3:L2:77:ARG:NH1	6:M2:70:GLU:CD	2.29	0.89
2:A4:63:PHE:CB	2:A4:66:LEU:HD11	2.03	0.89
3:B4:82:CYS:SG	12:B4:202:CYC:H2C	2.11	0.89
3:S4:113:LEU:HD12	3:S4:116:THR:HG21	1.55	0.89
3:L4:68:ARG:CG	11:aA:81:ASP:CA	2.51	0.89
3:L4:68:ARG:CG	11:aA:81:ASP:N	2.36	0.89
4:M4:94:TRP:HB3	3:Q4:88:ILE:HD13	1.54	0.89
4:M4:144:ARG:HG2	4:M4:204:ILE:CD1	2.00	0.89
12:K5:201:CYC:O1D	1:J5:62:TYR:OH	1.89	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C1:201:CYC:HMD1	12:C1:201:CYC:HC	1.33	0.89
12:M7:201:CYC:HB	12:M7:201:CYC:HMA1	1.37	0.89
8:c7:54:ALA:HB2	8:c7:133:MET:HG3	1.51	0.89
3:L8:116:THR:HG21	12:a9:901:CYC:CMA	2.02	0.89
4:M8:95:ALA:HB2	5:Z8:38:GLU:HG3	1.53	0.89
12:M8:301:CYC:HMC1	3:Y8:127:VAL:HG23	1.54	0.89
12:L9:201:CYC:HMD1	12:L9:201:CYC:NC	1.87	0.89
4:M9:274:VAL:C	3:V9:77:ARG:NE	2.29	0.89
12:B9:202:CYC:HMD1	12:B9:202:CYC:NC	1.88	0.89
3:LA:112:GLY:C	11:aA:532:ALA:HB3	1.98	0.89
5:NA:22:LEU:CG	5:NA:26:LEU:HD21	2.02	0.89
2:QA:120:PHE:CE2	3:TA:79:MET:SD	2.66	0.89
2:G2:113:LEU:CA	3:L2:76:ASN:ND2	2.36	0.89
3:B4:85:ASP:C	12:B4:202:CYC:CBC	2.46	0.89
12:T3:302:CYC:HMD1	12:T3:302:CYC:NC	1.88	0.89
2:N4:63:PHE:CB	2:N4:66:LEU:HD11	2.03	0.89
3:Y4:89:ILE:CA	3:Y4:92:TYR:HE2	1.53	0.89
8:G5:61:ILE:HD11	8:o7:67:SER:HB3	0.91	0.89
1:d5:110:ASN:HD21	10:j5:451:LYS:HB3	1.31	0.89
12:Q5:201:CYC:HMA1	12:Q5:201:CYC:HB	1.37	0.89
8:U5:76:LYS:CG	8:U5:77:MET:N	2.35	0.89
10:j5:1150:TYR:HE2	1:v7:69:GLY:O	1.30	0.89
10:k5:175:ASP:CB	10:k5:176:PRO:CD	1.97	0.89
10:k5:741:GLN:C	1:D7:77:ARG:HH21	1.81	0.89
3:F6:82:CYS:SG	12:F6:201:CYC:C4C	2.61	0.89
8:i7:20:PRO:HD3	8:s7:155:TYR:CZ	2.07	0.89
12:D8:202:CYC:CBA	4:M8:35:THR:HA	2.01	0.89
8:u7:29:PHE:CE2	1:v7:31:PHE:CZ	2.60	0.89
8:u7:29:PHE:HE2	1:v7:5:ILE:HD11	1.38	0.89
12:M8:301:CYC:HMB2	3:Y8:89:ILE:CG1	2.03	0.89
4:M9:185:ALA:CB	12:V9:201:CYC:CGA	2.50	0.89
5:Z8:22:LEU:HD23	5:Z8:26:LEU:HD11	0.89	0.89
3:F9:153:CYS:HB3	12:F9:303:CYC:NC	1.84	0.89
11:a9:339:GLU:N	11:a9:340:PRO:HD3	1.87	0.89
11:aA:49:TRP:O	11:aA:53:VAL:HG23	1.73	0.89
11:aA:312:ASP:HA	11:aA:315:LEU:N	1.87	0.89
11:aA:739:ASP:HB2	3:L1:84:ARG:HH11	1.38	0.89
12:JA:201:CYC:HMD1	12:JA:201:CYC:NC	1.88	0.89
6:M2:28:ASN:CB	8:O5:80:LEU:CG	2.49	0.89
3:F4:115:GLU:C	4:M4:3:VAL:CG1	2.46	0.89
10:j5:77:VAL:HG22	10:j5:141:GLU:HB3	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:480:GLU:OE1	10:j5:689:GLY:HA3	1.72	0.89
10:j5:974:LEU:CD1	1:v7:106:GLU:OE2	2.20	0.89
10:j5:1146:THR:HB	1:v7:77:ARG:HH21	1.24	0.89
10:k5:1055:SER:HB2	12:k5:1203:CYC:CAB	2.03	0.89
12:F6:202:CYC:HMD1	12:F6:202:CYC:NC	1.88	0.89
8:i7:96:ILE:CA	8:i7:152:TYR:CZ	2.50	0.89
8:c7:39:ILE:CD1	8:c7:148:GLU:HG3	1.87	0.89
8:c7:92:VAL:HG23	8:c7:156:LEU:HD11	1.53	0.89
3:B8:68:ARG:CZ	3:U8:68:ARG:NH2	2.34	0.89
8:u7:98:ALA:HB2	1:v7:9:ILE:HD11	1.53	0.89
4:M8:139:VAL:HG21	4:M8:216:ASN:C	1.98	0.89
12:M8:301:CYC:HAB1	3:Y8:88:ILE:HG22	1.54	0.89
4:M9:162:ASN:H	12:V9:201:CYC:CBB	1.86	0.89
11:aA:621:THR:HG22	3:J1:14:LEU:HD21	1.54	0.89
2:GA:119:THR:HG21	3:LA:83:LEU:HD13	1.55	0.89
3:HA:108:ARG:NH1	11:aA:448:ASN:HD21	1.71	0.89
4:MA:211:GLN:O	5:NA:28:HIS:NE2	2.06	0.89
12:R1:201:CYC:C4B	5:N1:54:LEU:HD11	2.00	0.89
12:L3:202:CYC:NB	11:a9:738:LEU:HD13	1.86	0.89
4:M4:228:SER:HB2	2:X4:16:GLY:HA3	1.54	0.89
1:T5:53:LYS:NZ	8:U5:120:GLN:HG3	1.89	0.89
10:j5:725:LEU:HD23	10:j5:725:LEU:C	1.96	0.89
10:j5:1008:PHE:HE1	1:v7:87:TYR:CD2	1.90	0.89
12:H6:202:CYC:HMD1	12:H6:202:CYC:NC	1.88	0.89
12:k7:201:CYC:HMA1	12:k7:201:CYC:HB	1.37	0.89
12:B8:201:CYC:HMD1	12:B8:201:CYC:NC	1.88	0.89
3:Q8:127:VAL:HG21	12:Z8:301:CYC:CMC	2.01	0.89
2:K9:15:GLN:C	11:a9:393:ARG:HH11	1.70	0.89
4:M1:258:LYS:NZ	3:Z1:111:ASN:CG	2.32	0.89
12:V1:202:CYC:HMD1	12:V1:202:CYC:NC	1.88	0.89
2:AA:114:ARG:HH12	11:aA:407:GLU:CD	1.81	0.88
3:JA:65:ASP:CB	11:aA:354:VAL:HG22	2.00	0.88
3:LA:111:ASN:O	11:aA:532:ALA:HB3	1.73	0.88
2:OA:63:PHE:CB	2:OA:66:LEU:HD11	2.03	0.88
12:ZA:201:CYC:HMD1	12:ZA:201:CYC:NC	1.88	0.88
12:B4:201:CYC:HMD1	12:B4:201:CYC:NC	1.88	0.88
2:N4:33:ARG:NH2	2:X4:28:ASN:CG	2.30	0.88
5:Z4:24:PRO:CD	12:Z4:301:CYC:O2A	2.21	0.88
5:Z4:41:GLN:CB	12:Z4:301:CYC:C3B	2.50	0.88
1:X5:50:THR:HG21	8:a5:49:ARG:NH2	1.87	0.88
6:M6:53:LEU:HD23	8:c7:80:LEU:HD21	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A7:201:CYC:HMA1	12:A7:201:CYC:HB	1.37	0.88
10:k5:1020:GLU:HG3	1:Z7:87:TYR:CE1	2.07	0.88
12:Q7:201:CYC:HB	12:Q7:201:CYC:HMA1	1.37	0.88
8:W7:13:ALA:HA	9:w7:46:LYS:HZ2	0.74	0.88
12:B8:202:CYC:CBB	4:M8:61:ASN:HB3	1.85	0.88
2:C8:13:ASP:OD2	11:a9:107:ARG:NH1	2.05	0.88
8:o7:103:PRO:HB3	1:p7:9:ILE:CG2	2.03	0.88
2:X8:57:GLN:NE2	3:T9:33:GLU:OE2	2.06	0.88
3:F8:112:GLY:C	3:F8:114:LYS:N	2.25	0.88
4:M8:215:GLU:CD	4:M8:215:GLU:O	2.15	0.88
5:N9:22:LEU:HD23	5:N9:26:LEU:HD11	0.89	0.88
11:a9:629:LYS:HA	11:a9:629:LYS:NZ	1.86	0.88
11:aA:75:ALA:CA	11:aA:81:ASP:OD2	2.21	0.88
11:aA:377:VAL:O	11:aA:391:VAL:HG22	1.71	0.88
11:aA:640:ALA:CB	11:aA:767:THR:CG2	2.51	0.88
3:FA:111:ASN:HD21	4:MA:65:ARG:HD2	1.38	0.88
3:TA:33:GLU:OE2	2:X4:57:GLN:NE2	2.06	0.88
3:B4:82:CYS:HB2	12:B4:202:CYC:OC	1.74	0.88
8:A5:115:MET:HE2	1:F5:75:THR:HG22	1.55	0.88
1:b5:30:TYR:CE2	10:k5:47:PHE:CZ	2.61	0.88
10:k5:743:VAL:HG13	12:D7:201:CYC:O2D	1.74	0.88
10:k5:1105:ILE:CD1	10:k5:1115:ARG:HH22	1.86	0.88
12:K7:201:CYC:HB	12:K7:201:CYC:HMA1	1.37	0.88
8:i7:21:GLY:HA2	8:s7:100:ASP:HA	1.53	0.88
8:k7:76:LYS:HZ3	11:a9:604:ALA:HB1	1.36	0.88
8:c7:121:THR:HG23	12:c7:201:CYC:HMC3	1.55	0.88
2:A8:33:ARG:NH2	2:K8:28:ASN:CG	2.31	0.88
12:D8:202:CYC:CBA	4:M8:35:THR:HB	2.03	0.88
8:o7:18:LEU:CD2	1:p7:97:LEU:HD13	2.03	0.88
2:X8:57:GLN:CD	3:T9:32:LYS:CE	2.46	0.88
12:H8:202:CYC:HMD1	12:H8:202:CYC:NC	1.88	0.88
12:L8:201:CYC:HMD1	12:L8:201:CYC:NC	1.88	0.88
4:M9:51:ARG:HH21	11:a9:430:ARG:HD3	1.38	0.88
3:H9:66:LEU:CD2	12:H9:202:CYC:OC	2.14	0.88
11:a9:640:ALA:CB	11:a9:767:THR:CG2	2.51	0.88
11:a9:801:ASN:ND2	11:a9:801:ASN:O	2.06	0.88
1:A:75:THR:CG2	10:k5:182:ASN:O	2.22	0.88
4:MA:158:PHE:C	3:VA:108:ARG:HG3	1.96	0.88
12:B3:201:CYC:HMD1	12:B3:201:CYC:NC	1.88	0.88
12:B3:202:CYC:HBA2	11:a9:684:ASN:CA	2.03	0.88
12:D3:201:CYC:HMD1	12:D3:201:CYC:NC	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O3:63:PHE:CB	2:O3:66:LEU:HD11	2.03	0.88
2:P4:19:LEU:CD1	3:Q4:95:TYR:HE1	1.87	0.88
1:B5:76:ARG:HD2	9:z5:14:LEU:HB2	1.53	0.88
1:d5:28:LYS:HD3	1:n7:143:PRO:HB3	0.88	0.88
1:T5:87:TYR:CE2	10:j5:483:PHE:HE2	1.92	0.88
6:M6:65:VAL:CG1	1:b7:59:ALA:C	2.46	0.88
12:C7:201:CYC:HB	12:C7:201:CYC:HMA1	1.37	0.88
2:A8:63:PHE:CB	2:A8:66:LEU:HD11	2.03	0.88
3:B8:116:THR:HG21	4:M8:53:LEU:HD12	1.55	0.88
8:o7:98:ALA:HB2	1:p7:9:ILE:HD11	1.53	0.88
4:M8:190:ARG:HH11	4:M8:202:SER:CB	1.83	0.88
4:M8:231:THR:CA	12:M8:301:CYC:HBB3	2.01	0.88
4:M8:235:PHE:HB3	12:M8:301:CYC:CMA	2.01	0.88
2:N8:63:PHE:CB	2:N8:66:LEU:HD11	2.03	0.88
3:Q8:117:TYR:HA	3:Q8:120:LEU:CD2	2.03	0.88
3:L9:14:LEU:HD21	11:a9:358:PRO:N	1.89	0.88
4:M9:184:ILE:HG22	12:V9:201:CYC:HBA2	1.56	0.88
4:M9:211:GLN:O	5:N9:28:HIS:NE2	2.06	0.88
5:N9:3:VAL:HG11	3:R9:115:GLU:CB	2.04	0.88
2:O9:63:PHE:CB	2:O9:66:LEU:HD11	2.03	0.88
5:Z8:39:PRO:HG3	12:Z8:301:CYC:CHD	2.04	0.88
11:aA:635:VAL:HG11	11:aA:795:ASP:OD2	1.72	0.88
11:aA:801:ASN:O	11:aA:801:ASN:ND2	2.06	0.88
4:M1:118:TYR:HD2	3:X1:84:ARG:NH2	1.71	0.88
4:M1:258:LYS:NZ	3:Z1:111:ASN:OD1	2.04	0.88
2:QA:119:THR:OG1	3:TA:83:LEU:HD13	1.73	0.88
3:L3:88:ILE:HG13	11:a9:742:GLN:HE21	1.34	0.88
3:F4:107:ASP:CB	4:M4:8:SER:H	1.86	0.88
12:M4:301:CYC:HAC2	3:Y4:82:CYS:HB2	1.54	0.88
2:P4:9:ILE:HD11	3:Q4:98:LEU:HD23	1.55	0.88
8:e5:49:ARG:CZ	1:R5:50:THR:CG2	2.50	0.88
1:f5:5:ILE:CD1	10:j5:46:PHE:CZ	2.56	0.88
1:f5:19:LEU:HD13	10:j5:172:LEU:HD13	1.56	0.88
10:j5:136:VAL:HG12	10:j5:137:PRO:HD2	1.44	0.88
10:j5:1150:TYR:HE1	11:aA:38:VAL:CG2	1.87	0.88
3:O8:95:TYR:HD2	3:O8:108:ARG:HH22	1.16	0.88
3:Q8:117:TYR:O	3:Q8:120:LEU:HG	1.71	0.88
3:S8:113:LEU:HD12	3:S8:116:THR:HG21	1.55	0.88
4:M9:36:TYR:O	12:B9:201:CYC:CMA	2.22	0.88
3:H9:117:TYR:CZ	12:H9:202:CYC:HHB	2.07	0.88
11:aA:795:ASP:O	12:aA:901:CYC:HBB3	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M1:80:PRO:HA	3:X1:111:ASN:HD21	1.36	0.88
2:A3:63:PHE:CB	2:A3:66:LEU:HD11	2.03	0.88
3:D3:68:ARG:CZ	3:X3:68:ARG:NH2	2.36	0.88
3:D4:116:THR:OG1	4:M4:38:PRO:CB	2.22	0.88
4:M3:118:TYR:HD2	3:X3:84:ARG:NH2	1.71	0.88
2:N4:111:ALA:O	5:Z4:34:LEU:CB	2.05	0.88
10:j5:1125:ARG:HG2	1:t7:115:THR:OG1	1.73	0.88
3:D1:68:ARG:CZ	3:X1:68:ARG:NH2	2.36	0.88
1:B7:140:LEU:CG	11:a9:561:ALA:HB2	2.04	0.88
8:C7:17:TYR:CE2	1:D7:90:ARG:HA	2.09	0.88
8:G7:86:ASP:HB2	11:a9:579:PHE:CZ	2.07	0.88
1:N7:106:GLU:HG3	9:z7:58:THR:HG23	1.54	0.88
8:c7:50:ILE:HG22	8:c7:133:MET:HG2	1.56	0.88
8:u7:18:LEU:CD2	1:v7:97:LEU:HD13	2.03	0.88
11:aA:798:SER:OG	12:aA:901:CYC:C3A	2.20	0.88
12:HA:201:CYC:HMD1	12:HA:201:CYC:NC	1.88	0.88
4:MA:51:ARG:HH21	11:aA:430:ARG:HD3	1.38	0.88
4:MA:185:ALA:CB	12:VA:201:CYC:CGA	2.50	0.88
5:NA:53:LEU:HB3	12:TA:301:CYC:CAA	2.02	0.88
5:NA:72:GLU:HG3	3:TA:119:ALA:O	1.73	0.88
12:H3:201:CYC:HMD1	12:H3:201:CYC:NC	1.88	0.88
3:H2:77:ARG:HH11	6:M2:117:MET:HE3	0.71	0.88
2:K2:28:ASN:CG	2:A2:33:ARG:NH2	2.31	0.88
12:L2:202:CYC:HMD1	12:L2:202:CYC:NC	1.88	0.88
5:N3:22:LEU:CG	5:N3:26:LEU:HD21	2.02	0.88
12:S4:201:CYC:HMD1	12:S4:201:CYC:NC	1.88	0.88
2:N4:111:ALA:O	5:Z4:34:LEU:HD13	1.72	0.88
12:B5:201:CYC:HBA1	9:z5:26:THR:HG21	1.56	0.88
1:D5:39:ARG:O	1:D5:40:ALA:C	2.14	0.88
8:Q5:12:ASP:CB	1:R5:94:TYR:HE2	1.80	0.88
10:j5:449:ARG:HH21	10:j5:449:ARG:HG3	1.37	0.88
10:j5:1119:LEU:CD1	12:j5:1202:CYC:C4B	2.51	0.88
10:j5:1124:TYR:CE2	1:t7:119:LEU:HD21	2.08	0.88
10:k5:476:ASN:ND2	10:k5:476:ASN:O	2.07	0.88
12:G7:201:CYC:HB	12:G7:201:CYC:HMA1	1.37	0.88
1:v7:62:TYR:CD1	11:aA:602:PRO:HD3	2.09	0.88
4:M8:136:SER:HB3	5:Z8:2:SER:HB2	1.53	0.88
2:A9:33:ARG:NH2	2:K9:28:ASN:CG	2.31	0.88
11:a9:640:ALA:HB1	11:a9:767:THR:HG23	1.56	0.88
12:Z1:201:CYC:HMD1	12:Z1:201:CYC:NC	1.88	0.88
1:Z:161:SER:OG	1:X5:14:VAL:HG23	1.68	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:5:THR:O	4:MA:6:THR:OG1	1.90	0.88
2:OA:33:ARG:NH2	2:YA:28:ASN:CG	2.30	0.88
3:TA:32:LYS:CE	2:X4:57:GLN:CD	2.46	0.88
3:B3:88:ILE:HD13	12:B3:202:CYC:C4B	2.03	0.88
12:B4:202:CYC:HMA2	4:M4:58:TYR:H	0.72	0.88
3:L3:104:VAL:CB	3:L3:108:ARG:NH2	2.37	0.88
3:F4:91:ARG:HH22	11:aA:140:GLN:HE22	1.22	0.88
1:d5:161:SER:OG	10:j5:696:ARG:HA	1.71	0.88
10:k5:388:ARG:HB3	10:k5:388:ARG:CZ	2.02	0.88
1:R7:49:THR:HG22	8:C7:161:GLN:CD	1.98	0.88
8:i7:121:THR:HG23	12:i7:201:CYC:HMC3	1.55	0.88
8:m7:17:TYR:CE2	1:n7:90:ARG:HA	2.09	0.88
4:M8:29:PRO:CB	11:a9:225:VAL:O	2.16	0.88
4:M9:5:THR:O	4:M9:6:THR:OG1	1.90	0.88
2:A9:63:PHE:CB	2:A9:66:LEU:HD11	2.03	0.88
2:I9:113:LEU:HD21	2:I9:161:LEU:CD2	2.02	0.88
11:aA:776:TYR:HE1	12:H1:201:CYC:OB	1.44	0.88
12:X1:202:CYC:HMD1	12:X1:202:CYC:NC	1.88	0.88
12:F2:202:CYC:HMD1	12:F2:202:CYC:NC	1.88	0.88
3:DA:111:ASN:OD1	4:MA:76:ALA:HB3	1.73	0.88
3:HA:66:LEU:CD2	12:HA:202:CYC:OC	2.15	0.88
12:PA:202:CYC:HMD1	12:PA:202:CYC:NC	1.88	0.88
6:M2:26:PHE:HB2	8:O5:87:TYR:OH	1.07	0.88
3:D4:14:LEU:HD11	3:Y4:125:ARG:NE	1.88	0.88
12:T5:201:CYC:HBB1	10:j5:482:GLN:HE22	1.38	0.88
10:k5:232:ARG:CZ	10:k5:232:ARG:HB2	2.00	0.88
10:k5:1153:VAL:HG23	1:p7:125:ALA:CB	1.96	0.88
12:D6:202:CYC:HMD1	12:D6:202:CYC:NC	1.88	0.88
8:g7:94:TYR:OH	1:h7:17:LYS:O	1.92	0.88
8:i7:96:ILE:N	8:i7:152:TYR:CD2	2.42	0.88
8:U7:17:TYR:CE2	1:V7:90:ARG:HA	2.09	0.88
3:B8:108:ARG:CA	4:M8:61:ASN:HA	2.04	0.88
3:B8:120:LEU:HD11	4:M8:53:LEU:CA	2.04	0.88
3:U8:114:LYS:HZ1	4:M8:13:LYS:NZ	1.69	0.88
4:M9:274:VAL:CB	3:V9:77:ARG:CD	2.51	0.88
12:H9:201:CYC:HMD1	12:H9:201:CYC:NC	1.88	0.88
12:J9:202:CYC:HBA2	11:a9:511:LYS:CA	2.00	0.88
12:T9:302:CYC:HMD1	12:T9:302:CYC:NC	1.88	0.88
11:a9:75:ALA:CA	11:a9:81:ASP:OD2	2.21	0.88
11:aA:670:LEU:CD2	2:K1:112:GLY:HA3	2.01	0.88
3:F2:78:ARG:CG	12:F2:201:CYC:CGD	2.52	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:37:GLU:OE1	4:MA:40:GLN:CD	2.17	0.88
2:G3:111:ALA:CB	3:L3:77:ARG:HG2	2.04	0.88
3:B4:68:ARG:NH2	3:U4:68:ARG:HH22	1.65	0.88
2:O3:33:ARG:NH2	2:Y3:28:ASN:CG	2.31	0.88
12:U4:202:CYC:HMD1	12:U4:202:CYC:NC	1.88	0.88
12:L4:201:CYC:HMD1	12:L4:201:CYC:NC	1.88	0.88
8:M5:90:ARG:HA	1:N5:18:TYR:CE2	2.09	0.88
12:V5:201:CYC:HBB2	10:j5:623:VAL:HG21	1.56	0.88
10:k5:138:PRO:HB2	10:k5:201:VAL:HG11	1.55	0.88
10:k5:449:ARG:HH21	10:k5:449:ARG:HG3	1.37	0.88
10:k5:978:LEU:CD1	1:p7:107:ARG:HH22	1.86	0.88
10:k5:1146:THR:HB	1:p7:77:ARG:HH22	1.33	0.88
1:H7:140:LEU:CG	11:aA:561:ALA:HB2	2.03	0.88
8:c7:96:ILE:N	8:c7:152:TYR:CD2	2.42	0.88
12:c7:201:CYC:HMA1	12:c7:201:CYC:HB	1.37	0.88
12:q7:201:CYC:HB	12:q7:201:CYC:HMA1	1.37	0.88
3:F8:91:ARG:HH22	11:a9:140:GLN:HE22	1.20	0.88
3:Q8:102:ALA:HB1	3:Q8:166:LYS:HD3	1.55	0.88
12:F1:202:CYC:HMD1	12:F1:202:CYC:NC	1.88	0.88
3:L9:83:LEU:HD13	2:G9:119:THR:HG21	1.55	0.88
5:N9:16:PHE:CE1	3:T9:120:LEU:CD2	2.57	0.88
11:a9:95:ILE:CD1	11:a9:237:PHE:CD1	2.56	0.88
11:a9:632:ILE:HG21	11:a9:634:ALA:HB2	1.55	0.88
11:aA:95:ILE:CD1	11:aA:237:PHE:CD1	2.56	0.88
11:aA:312:ASP:HA	11:aA:315:LEU:CA	2.02	0.88
11:aA:623:ASP:CA	3:H1:78:ARG:HH22	1.87	0.88
2:AA:33:ARG:NH2	2:KA:28:ASN:CG	2.31	0.88
4:MA:188:LEU:CD2	12:VA:201:CYC:NB	2.37	0.88
5:NA:3:VAL:HG11	3:RA:115:GLU:CB	2.04	0.88
5:NA:16:PHE:CE1	3:TA:120:LEU:CD2	2.57	0.88
2:A1:33:ARG:NH2	2:K1:28:ASN:CG	2.31	0.88
12:J3:202:CYC:HAA1	11:a9:798:SER:OG	1.72	0.88
12:Z3:201:CYC:OB	4:M3:162:ASN:CB	2.22	0.88
4:M3:222:ARG:HG3	4:M3:222:ARG:HH11	1.38	0.88
12:B1:201:CYC:HMD1	12:B1:201:CYC:NC	1.88	0.88
4:M4:104:ALA:HB3	2:P4:14:SER:N	1.82	0.88
8:M5:94:TYR:OH	1:N5:17:LYS:O	1.91	0.88
5:Z4:25:THR:HG22	5:Z4:63:ASN:O	1.73	0.88
1:P5:114:GLU:OE1	10:k5:496:GLU:CB	2.22	0.88
8:S5:90:ARG:HA	1:T5:18:TYR:CE2	2.09	0.88
12:Y5:201:CYC:HMA1	12:Y5:201:CYC:HB	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L6:202:CYC:HMD1	12:L6:202:CYC:NC	1.88	0.88
1:Z7:53:LYS:HD3	8:a7:118:SER:O	1.74	0.88
8:a7:94:TYR:OH	1:b7:17:LYS:O	1.92	0.88
2:N8:112:GLY:N	5:Z8:34:LEU:H	1.69	0.88
12:S8:201:CYC:HMD1	12:S8:201:CYC:NC	1.88	0.88
3:L9:111:ASN:O	11:a9:532:ALA:N	2.07	0.88
4:M9:1:MET:CA	11:a9:422:SER:O	2.01	0.88
4:M9:1:MET:HG2	11:a9:422:SER:O	1.72	0.88
2:G1:111:ALA:CB	3:L1:77:ARG:HG2	2.04	0.88
11:a9:245:ALA:HB2	12:a9:901:CYC:C3B	2.02	0.88
12:B2:201:CYC:HMD1	12:B2:201:CYC:NC	1.88	0.88
4:MA:162:ASN:H	12:VA:201:CYC:CBB	1.86	0.87
4:MA:188:LEU:HD22	12:VA:201:CYC:NB	1.88	0.87
2:QA:18:PHE:CZ	3:RA:48:ALA:CB	2.57	0.87
6:M2:28:ASN:CB	8:O5:80:LEU:HD23	2.02	0.87
6:M2:53:LEU:HD23	8:i7:80:LEU:HG	1.42	0.87
12:L3:201:CYC:HMD1	12:L3:201:CYC:NC	1.88	0.87
5:N3:22:LEU:HD23	5:N3:26:LEU:HD11	0.90	0.87
5:N3:66:ARG:NH1	3:R3:111:ASN:ND2	2.22	0.87
1:F5:69:GLY:O	10:k5:554:ASN:ND2	2.07	0.87
8:U5:87:TYR:CE2	6:M6:26:PHE:CD2	2.62	0.87
10:j5:939:GLN:O	10:j5:943:THR:HG23	1.75	0.87
10:k5:931:VAL:HA	1:D7:29:ALA:O	1.73	0.87
10:k5:935:LEU:HD11	1:D7:25:ASP:O	1.74	0.87
8:g7:25:ARG:HH21	8:u7:25:ARG:HH11	1.21	0.87
1:Z7:67:ARG:CG	11:a9:311:LEU:HD22	2.04	0.87
3:L9:111:ASN:O	11:a9:532:ALA:HB3	1.72	0.87
5:N9:22:LEU:CG	5:N9:26:LEU:HD21	2.02	0.87
11:aA:746:TYR:HB2	2:K1:14:SER:HA	1.53	0.87
3:JA:111:ASN:CA	11:aA:518:ALA:HB3	2.05	0.87
4:MA:188:LEU:CD2	12:VA:201:CYC:HB	1.86	0.87
5:NA:4:LEU:O	3:RA:112:GLY:HA3	1.75	0.87
12:J3:201:CYC:HMD1	12:J3:201:CYC:NC	1.88	0.87
2:C4:13:ASP:OD2	11:aA:107:ARG:NH1	2.06	0.87
12:D4:201:CYC:HMD1	12:D4:201:CYC:NC	1.88	0.87
5:N3:34:LEU:HB2	3:T3:84:ARG:HD3	1.53	0.87
2:N4:14:SER:HB3	5:Z4:62:ARG:CD	1.96	0.87
12:Q4:201:CYC:HMD1	12:Q4:201:CYC:NC	1.88	0.87
6:M6:243:ALA:CB	12:H6:201:CYC:HBB2	2.03	0.87
10:j5:820:HIS:HD1	10:j5:859:ILE:CD1	1.83	0.87
10:j5:1105:ILE:CD1	10:j5:1115:ARG:HH22	1.86	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:1064:LYS:CD	10:k5:1065:HIS:N	2.38	0.87
10:k5:1118:THR:O	12:k5:1204:CYC:CMA	2.23	0.87
10:k5:1147:TYR:CE1	11:a9:35:ARG:CB	2.58	0.87
8:g7:118:SER:O	1:f7:53:LYS:HD3	1.74	0.87
12:W7:201:CYC:HB	12:W7:201:CYC:HMA1	1.37	0.87
12:m7:201:CYC:HB	12:m7:201:CYC:HMA1	1.37	0.87
2:X8:107:ASP:OD2	4:M8:273:ILE:HG22	1.74	0.87
2:A9:114:ARG:HH12	11:a9:407:GLU:CD	1.81	0.87
3:H9:116:THR:HG21	12:H9:202:CYC:CMA	2.04	0.87
11:a9:89:ALA:HA	11:a9:92:LYS:HZ1	1.39	0.87
11:a9:338:VAL:HG22	11:a9:340:PRO:HD3	1.54	0.87
11:aA:371:VAL:HG11	11:aA:507:PHE:CD2	2.10	0.87
11:aA:640:ALA:HB1	11:aA:767:THR:HG23	1.55	0.87
4:M1:162:ASN:CB	12:Z1:202:CYC:OB	2.22	0.87
4:M1:258:LYS:HZ1	3:Z1:111:ASN:CG	1.82	0.87
12:T1:302:CYC:HMD1	12:T1:302:CYC:NC	1.88	0.87
1:Z:16:GLY:HA2	8:e5:90:ARG:NH1	1.89	0.87
3:F4:113:LEU:HB2	4:M4:5:THR:HG22	1.56	0.87
4:M4:104:ALA:HB3	2:P4:14:SER:HA	1.48	0.87
2:N4:111:ALA:CA	5:Z4:34:LEU:HG	2.04	0.87
1:f5:6:THR:HG22	10:j5:19:THR:OG1	1.75	0.87
1:b5:18:TYR:CD2	10:k5:165:ARG:HG3	2.09	0.87
1:b5:38:VAL:HG13	10:k5:40:VAL:HG11	1.56	0.87
9:i5:14:LEU:HD12	9:i5:15:LYS:H	1.33	0.87
10:j5:476:ASN:O	10:j5:476:ASN:ND2	2.07	0.87
10:j5:1147:TYR:CE1	11:aA:35:ARG:CB	2.56	0.87
10:k5:631:HIS:HD2	10:k5:664:MET:HE3	1.38	0.87
8:c7:39:ILE:HD13	8:c7:148:GLU:HB3	1.48	0.87
3:U8:114:LYS:CE	4:M8:13:LYS:HE3	2.02	0.87
3:L8:82:CYS:HG	12:a9:901:CYC:HAC2	1.02	0.87
12:R9:202:CYC:HMD1	12:R9:202:CYC:NC	1.88	0.87
12:V9:202:CYC:HMD1	12:V9:202:CYC:NC	1.88	0.87
12:Z9:201:CYC:HMD1	12:Z9:201:CYC:NC	1.88	0.87
11:a9:99:ALA:CB	11:a9:100:PRO:HD3	2.01	0.87
2:A2:63:PHE:CB	2:A2:66:LEU:HD11	2.02	0.87
3:FA:36:LYS:CB	3:FA:156:LEU:CD1	2.53	0.87
3:HA:107:ASP:HB3	11:aA:445:THR:HG22	1.54	0.87
2:QA:32:GLN:HG2	2:UA:28:ASN:HD21	1.39	0.87
3:J3:85:ASP:N	11:a9:668:TYR:CZ	2.38	0.87
3:L3:1:MET:HG3	3:L3:104:VAL:HG12	1.56	0.87
12:P3:202:CYC:HMD1	12:P3:202:CYC:NC	1.88	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U3:43:ALA:O	2:U3:46:SER:O	1.91	0.87
12:H4:202:CYC:HMD1	12:H4:202:CYC:NC	1.88	0.87
4:M4:27:HIS:CD2	4:M4:34:ASP:OD1	2.27	0.87
3:Y4:109:CYS:SG	3:Y4:110:LEU:HG	2.15	0.87
12:Y4:201:CYC:HMD1	12:Y4:201:CYC:NC	1.88	0.87
8:W5:16:ARG:HA	1:X5:90:ARG:CZ	2.04	0.87
10:k5:199:THR:HG22	12:k5:1201:CYC:CBC	2.05	0.87
12:S7:201:CYC:HB	12:S7:201:CYC:HMA1	1.37	0.87
3:L9:114:LYS:NZ	3:L9:172:ALA:O	2.07	0.87
4:M9:185:ALA:HA	12:V9:201:CYC:O2A	1.71	0.87
5:Z8:41:GLN:CG	12:Z8:301:CYC:HBB3	2.02	0.87
3:H9:126:SER:HB3	12:H9:202:CYC:HMC2	1.54	0.87
11:aA:89:ALA:HA	11:aA:92:LYS:HZ1	1.35	0.87
11:aA:338:VAL:CG2	11:aA:340:PRO:CG	2.53	0.87
11:aA:339:GLU:N	11:aA:340:PRO:HD3	1.87	0.87
1:Z:75:THR:OG1	10:j5:182:ASN:HA	1.75	0.87
12:BA:201:CYC:CMA	4:MA:36:TYR:O	2.22	0.87
4:MA:263:PRO:CB	3:VA:119:ALA:HB3	1.99	0.87
4:MA:274:VAL:CB	3:VA:77:ARG:CG	2.50	0.87
12:P1:202:CYC:HMD1	12:P1:202:CYC:NC	1.88	0.87
12:J3:202:CYC:HB	11:a9:666:ASN:HB3	1.40	0.87
3:B4:85:ASP:HB2	12:B4:202:CYC:CBC	2.04	0.87
12:M4:301:CYC:HMC2	3:Y4:72:ASN:HB3	1.57	0.87
1:L5:75:THR:HG22	8:G5:115:MET:HE2	1.55	0.87
8:Q5:16:ARG:HA	1:R5:90:ARG:CZ	2.04	0.87
10:j5:990:ARG:NH2	10:j5:1026:LYS:HZ1	1.72	0.87
10:j5:1153:VAL:HG11	1:v7:59:ALA:O	1.74	0.87
10:k5:924:ASP:CG	1:D7:26:LYS:NZ	2.32	0.87
10:k5:1074:GLN:OE1	1:l7:119:LEU:CD2	2.18	0.87
12:D1:201:CYC:HMD1	12:D1:201:CYC:NC	1.88	0.87
1:H7:68:PRO:HB3	1:J7:14:VAL:O	1.74	0.87
8:I7:17:TYR:CE2	1:J7:90:ARG:HA	2.09	0.87
12:Y7:201:CYC:HB	12:Y7:201:CYC:HMA1	1.37	0.87
3:B8:116:THR:CA	4:M8:56:MET:HG3	1.94	0.87
12:M8:301:CYC:CAB	3:Y8:88:ILE:HG22	2.04	0.87
4:M9:274:VAL:CA	3:V9:77:ARG:CD	2.37	0.87
3:Y8:89:ILE:CB	3:Y8:92:TYR:CE2	2.58	0.87
11:a9:49:TRP:O	11:a9:53:VAL:HG23	1.73	0.87
11:aA:338:VAL:HG22	11:aA:340:PRO:HD3	1.54	0.87
12:LA:201:CYC:HMD1	12:LA:201:CYC:NC	1.87	0.87
4:MA:222:ARG:HG3	4:MA:222:ARG:HH11	1.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R1:111:ASN:ND2	5:N1:66:ARG:NH1	2.22	0.87
3:B3:91:ARG:CZ	11:a9:677:GLN:HE22	1.82	0.87
3:B3:115:GLU:OE2	4:M3:78:GLY:N	2.07	0.87
12:V3:202:CYC:HMD1	12:V3:202:CYC:NC	1.88	0.87
4:M4:104:ALA:C	2:P4:14:SER:HB2	2.00	0.87
4:M4:217:VAL:CG2	5:Z4:30:PRO:CA	2.52	0.87
12:M4:301:CYC:HAC1	3:Y4:82:CYS:SG	2.12	0.87
12:d5:201:CYC:OB	10:j5:353:ASN:HB2	1.74	0.87
12:U5:201:CYC:HMA1	12:U5:201:CYC:HB	1.37	0.87
10:k5:971:VAL:N	12:k5:1204:CYC:CGD	2.34	0.87
10:k5:1054:SER:HA	1:l7:107:ARG:C	1.98	0.87
8:O7:17:TYR:CE2	1:P7:90:ARG:HA	2.09	0.87
12:E7:201:CYC:HMA1	12:E7:201:CYC:HB	1.37	0.87
8:o7:30:VAL:HB	1:p7:31:PHE:O	1.74	0.87
8:q7:49:ARG:CZ	3:H1:62:GLU:OE1	2.22	0.87
8:u7:30:VAL:HB	1:v7:31:PHE:O	1.74	0.87
3:F8:115:GLU:HB3	4:M8:3:VAL:HG13	1.55	0.87
4:M9:76:ALA:HB3	3:D9:111:ASN:OD1	1.73	0.87
12:J9:202:CYC:HBB3	11:a9:516:GLN:CG	2.05	0.87
11:a9:476:ARG:NH1	11:a9:488:SER:OG	2.07	0.87
4:M1:5:THR:O	4:M1:6:THR:OG1	1.90	0.87
1:A:73:TYR:CE1	10:k5:162:TRP:HZ2	1.58	0.87
2:A1:63:PHE:CB	2:A1:66:LEU:HD11	2.03	0.87
3:Z3:111:ASN:CG	4:M3:258:LYS:NZ	2.32	0.87
12:B4:202:CYC:HBB2	4:M4:61:ASN:HB2	1.35	0.87
12:B1:202:CYC:CAA	11:aA:684:ASN:CB	2.46	0.87
4:M4:251:ASN:HD22	4:M4:251:ASN:H	1.16	0.87
8:e5:45:GLU:OE1	1:R5:139:GLY:HA3	1.69	0.87
8:S5:94:TYR:OH	1:T5:17:LYS:O	1.91	0.87
8:Y5:114:GLU:OE1	10:k5:312:TYR:O	1.93	0.87
1:b5:38:VAL:CG1	10:k5:40:VAL:HG11	2.04	0.87
10:j5:388:ARG:HB3	10:j5:388:ARG:CZ	2.02	0.87
10:k5:547:ARG:O	10:k5:547:ARG:NH2	2.07	0.87
8:g7:25:ARG:HE	8:u7:25:ARG:NE	1.71	0.87
8:i7:47:ARG:HD3	1:j7:18:TYR:CD2	2.08	0.87
8:s7:17:TYR:CE2	1:t7:90:ARG:HA	2.09	0.87
3:F8:107:ASP:HA	4:M8:6:THR:O	1.74	0.87
4:M9:188:LEU:HD22	12:V9:201:CYC:NB	1.88	0.87
4:M9:188:LEU:CD2	12:V9:201:CYC:NB	2.37	0.87
5:N9:50:LEU:HD21	12:T9:301:CYC:O1D	1.74	0.87
5:N9:72:GLU:HG3	3:T9:119:ALA:O	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:623:ASP:HB2	3:H1:78:ARG:NH2	1.85	0.87
12:DA:202:CYC:HMD1	12:DA:202:CYC:NC	1.88	0.87
6:M2:278:ARG:HH21	1:j7:67:ARG:CZ	1.58	0.87
1:f5:34:GLY:HA3	10:j5:47:PHE:CD2	2.09	0.87
6:M6:117:MET:HE3	3:H6:77:ARG:HH11	0.71	0.87
10:k5:939:GLN:O	10:k5:943:THR:HG23	1.74	0.87
8:g7:52:LYS:CD	11:aA:321:ALA:HB1	2.01	0.87
2:E8:1:MET:H2	4:M8:10:ARG:NH2	1.69	0.87
4:M9:222:ARG:HH11	4:M9:222:ARG:HG3	1.38	0.87
12:J9:202:CYC:HBB3	11:a9:516:GLN:HG3	1.56	0.87
11:aA:275:THR:C	11:aA:278:LEU:HD12	1.99	0.87
11:aA:666:ASN:HB3	12:aA:901:CYC:HB	1.39	0.87
12:H1:202:CYC:HMD1	12:H1:202:CYC:NC	1.88	0.87
4:M1:188:LEU:CD2	12:Z1:202:CYC:HB	1.88	0.87
4:M1:189:ASP:OD1	3:Z1:84:ARG:NH1	2.08	0.87
4:MA:274:VAL:HG12	3:VA:77:ARG:CD	2.05	0.87
3:H3:78:ARG:HH22	11:a9:623:ASP:CA	1.86	0.87
3:U4:115:GLU:HB2	4:M4:74:LEU:HD12	0.88	0.87
2:N4:112:GLY:CA	5:Z4:34:LEU:CB	2.51	0.87
8:K5:161:GLN:NE2	1:V5:49:THR:HG22	1.90	0.87
1:Z5:127:VAL:CG1	10:k5:698:GLY:N	2.33	0.87
8:a5:35:ARG:HH22	8:a5:144:ASP:HB3	1.40	0.87
10:j5:357:LEU:HD11	10:j5:379:PHE:CA	2.04	0.87
10:j5:1020:GLU:CG	1:f7:87:TYR:CZ	2.58	0.87
10:j5:1064:LYS:CD	10:j5:1065:HIS:N	2.38	0.87
10:k5:966:SER:N	1:p7:14:VAL:HG11	1.87	0.87
12:D8:201:CYC:HMD1	12:D8:201:CYC:NC	1.88	0.87
8:q7:45:GLU:CD	3:H1:125:ARG:HH21	1.82	0.87
3:U8:108:ARG:O	4:M8:246:ALA:CB	2.22	0.87
3:F8:107:ASP:CB	4:M8:8:SER:N	2.37	0.87
3:O8:119:ALA:CB	5:Z8:72:GLU:HG3	2.05	0.87
12:Q8:201:CYC:HMD1	12:Q8:201:CYC:NC	1.88	0.87
5:N9:61:LYS:HZ2	12:T9:301:CYC:HBB2	1.38	0.87
3:HA:78:ARG:HH11	12:HA:202:CYC:CGD	1.88	0.86
3:LA:114:LYS:NZ	3:LA:172:ALA:O	2.07	0.86
2:QA:71:GLN:N	2:QA:74:TYR:HE2	1.67	0.86
3:J3:77:ARG:HE	2:K3:111:ALA:CB	1.88	0.86
3:L3:75:PRO:HD2	11:a9:823:ILE:HG13	1.57	0.86
3:L4:68:ARG:CB	11:aA:81:ASP:CA	2.53	0.86
3:L4:68:ARG:CD	11:aA:81:ASP:N	2.38	0.86
1:L5:75:THR:HG21	8:G5:112:VAL:HG23	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:e5:35:ARG:HH22	8:e5:144:ASP:HB3	1.40	0.86
10:j5:978:LEU:HD11	1:v7:107:ARG:HH22	1.37	0.86
1:H7:136:VAL:HA	11:aA:563:PHE:CZ	2.10	0.86
3:U8:114:LYS:HZ3	4:M8:13:LYS:HE3	1.31	0.86
3:J8:108:ARG:NH2	11:a9:171:ARG:CB	2.37	0.86
4:M9:134:ASN:OD1	5:N9:1:MET:N	2.08	0.86
3:H9:108:ARG:NH1	11:a9:448:ASN:HD21	1.72	0.86
11:aA:99:ALA:HB3	11:aA:100:PRO:CD	1.99	0.86
11:aA:476:ARG:NH1	11:aA:488:SER:OG	2.07	0.86
1:Z:122:PRO:CB	1:V5:64:ASP:OD2	2.22	0.86
4:MA:1:MET:HG2	11:aA:422:SER:O	1.73	0.86
4:MA:134:ASN:OD1	5:NA:1:MET:N	2.08	0.86
2:K3:15:GLN:CA	11:a9:745:GLY:CA	2.50	0.86
3:H4:84:ARG:HE	11:aA:131:TYR:HD2	1.22	0.86
4:M4:129:GLU:N	4:M4:142:PHE:HZ	1.71	0.86
10:j5:1005:LEU:HD13	10:j5:1016:LEU:HD21	1.57	0.86
10:k5:56:ILE:HG23	10:k5:57:VAL:N	1.90	0.86
8:o7:29:PHE:HE2	1:p7:5:ILE:HD11	1.38	0.86
8:u7:5:THR:OG1	1:v7:3:ASP:OD2	1.93	0.86
5:Z8:41:GLN:CD	12:Z8:301:CYC:HBB3	1.95	0.86
11:a9:338:VAL:CG2	11:a9:340:PRO:CG	2.53	0.86
11:a9:589:THR:N	11:a9:590:PRO:HD3	1.80	0.86
11:aA:589:THR:N	11:aA:590:PRO:CD	2.32	0.86
12:L1:201:CYC:HMD1	12:L1:201:CYC:NC	1.88	0.86
4:M1:196:TYR:CB	2:Y1:14:SER:O	2.24	0.86
3:J3:14:LEU:HD21	11:a9:621:THR:HG22	1.54	0.86
12:B3:202:CYC:HBA1	11:a9:684:ASN:HB3	1.53	0.86
4:M3:196:TYR:CB	2:Y3:14:SER:O	2.24	0.86
3:B1:88:ILE:HB	12:B1:202:CYC:HMB2	1.55	0.86
3:B1:115:GLU:OE2	4:M1:78:GLY:N	2.07	0.86
8:O5:76:LYS:CD	8:O5:77:MET:HE2	1.91	0.86
1:f5:18:TYR:CE2	10:j5:165:ARG:CA	2.57	0.86
10:j5:1013:PRO:CB	8:q7:114:GLU:OE2	2.23	0.86
10:k5:546:PHE:CE1	10:k5:561:GLU:CD	2.53	0.86
10:k5:1009:ALA:HB2	1:p7:87:TYR:OH	1.74	0.86
10:k5:1142:SER:O	1:l7:10:ASN:ND2	2.08	0.86
12:J8:201:CYC:HMA1	11:a9:176:ASN:HD21	1.40	0.86
4:M8:217:VAL:HG23	5:Z8:30:PRO:HG3	1.53	0.86
4:M9:37:GLU:OE1	4:M9:40:GLN:CD	2.17	0.86
4:M9:192:GLN:HG2	3:V9:84:ARG:HG3	1.54	0.86
5:N9:4:LEU:O	3:R9:112:GLY:HA3	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z8:29:HIS:HD2	5:Z8:36:THR:CG2	1.87	0.86
11:a9:106:LEU:HB2	11:a9:118:VAL:HG21	1.54	0.86
3:H1:81:ALA:CB	12:H1:201:CYC:C2D	2.52	0.86
12:HA:202:CYC:OB	11:aA:474:PHE:CE1	2.28	0.86
12:B4:202:CYC:HBD1	4:M4:53:LEU:HB3	1.58	0.86
3:J4:125:ARG:NH1	2:C2:69:PRO:HG2	1.89	0.86
10:k5:221:LYS:HZ3	10:k5:221:LYS:HB3	1.38	0.86
10:k5:1005:LEU:HD13	10:k5:1016:LEU:HD21	1.57	0.86
10:k5:1017:ARG:HB3	10:k5:1017:ARG:NH2	1.91	0.86
8:C7:35:ARG:HH22	8:C7:144:ASP:HB3	1.41	0.86
8:g7:25:ARG:NH2	8:u7:25:ARG:HH11	1.71	0.86
2:G1:111:ALA:CB	3:L1:77:ARG:HE	1.88	0.86
11:a9:639:GLN:NE2	11:a9:639:GLN:O	2.08	0.86
11:aA:742:GLN:HE21	3:L1:88:ILE:HG13	1.36	0.86
3:J3:77:ARG:HG2	2:K3:111:ALA:CB	2.04	0.86
12:J3:202:CYC:HBB3	11:a9:795:ASP:O	1.75	0.86
3:Z3:84:ARG:NH1	4:M3:189:ASP:OD1	2.08	0.86
4:M3:113:ILE:HD11	4:M3:143:VAL:CG1	2.04	0.86
4:M4:92:GLU:OE1	4:M4:217:VAL:HA	1.60	0.86
2:N4:14:SER:CB	5:Z4:62:ARG:HD3	2.03	0.86
3:Q4:84:ARG:HD3	5:Z4:31:TRP:CD1	2.10	0.86
1:d5:110:ASN:O	10:j5:352:ILE:HD12	1.74	0.86
10:k5:1153:VAL:CG2	1:p7:65:LEU:HD11	2.04	0.86
8:k7:79:ALA:CB	11:a9:53:VAL:HG21	2.04	0.86
8:o7:23:LEU:CG	1:p7:38:VAL:CG1	2.40	0.86
12:M8:301:CYC:HAC2	3:Y8:82:CYS:SG	2.16	0.86
3:J3:14:LEU:HD22	11:a9:621:THR:HG23	1.54	0.86
3:J3:85:ASP:HA	11:a9:668:TYR:OH	1.72	0.86
6:M2:26:PHE:HB3	8:O5:83:ARG:CD	2.04	0.86
3:F4:113:LEU:HB2	4:M4:5:THR:HG21	1.57	0.86
3:J4:108:ARG:NH2	11:aA:171:ARG:CB	2.39	0.86
5:Z4:29:HIS:CE1	5:Z4:38:GLU:HB3	2.11	0.86
1:Z5:110:ASN:O	10:k5:352:ILE:HD12	1.75	0.86
1:b5:1:MET:O	10:k5:15:ARG:NH1	2.08	0.86
10:j5:547:ARG:O	10:j5:547:ARG:NH2	2.07	0.86
10:j5:1019:SER:HG	1:f7:87:TYR:HE1	1.21	0.86
8:i7:46:ALA:CB	8:i7:140:LEU:CD1	2.52	0.86
8:c7:25:ARG:NH2	8:m7:6:LYS:NZ	2.22	0.86
8:c7:46:ALA:CB	8:c7:140:LEU:CD1	2.53	0.86
8:u7:90:ARG:CB	1:v7:18:TYR:CZ	2.59	0.86
2:N8:10:ALA:O	5:Z8:62:ARG:NE	2.07	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:N8:201:CYC:HB	12:N8:201:CYC:HMA1	1.40	0.86
3:Q8:72:ASN:OD1	12:Z8:301:CYC:CMD	2.24	0.86
3:J9:111:ASN:CA	11:a9:518:ALA:HB3	2.05	0.86
11:a9:414:ALA:HB1	11:a9:428:PHE:HE1	1.40	0.86
2:GA:119:THR:HG21	3:LA:83:LEU:CD1	2.05	0.86
3:JA:114:LYS:CD	8:S7:60:GLN:HE22	1.88	0.86
3:Q4:124:THR:CB	3:Q4:171:ILE:O	2.22	0.86
8:M5:38:ARG:HD3	1:J7:144:ASP:OD1	1.76	0.86
1:N5:113:LYS:NZ	1:Z5:155:TYR:OH	2.05	0.86
12:Z5:201:CYC:O2A	10:k5:379:PHE:CD2	2.28	0.86
10:j5:778:LYS:NZ	12:L7:201:CYC:HBB2	1.90	0.86
10:k5:357:LEU:HD11	10:k5:379:PHE:CA	2.04	0.86
10:k5:1023:SER:HB3	12:k5:1202:CYC:CMA	2.05	0.86
8:g7:10:ASN:ND2	8:u7:10:ASN:ND2	2.22	0.86
8:u7:23:LEU:CG	1:v7:38:VAL:CG1	2.40	0.86
2:X8:108:TYR:CZ	4:M8:273:ILE:CD1	2.57	0.86
4:M8:222:ARG:HH11	4:M8:222:ARG:HG3	1.38	0.86
3:J9:111:ASN:ND2	11:a9:519:ARG:HG2	1.90	0.86
11:aA:639:GLN:O	11:aA:639:GLN:NE2	2.08	0.86
3:H1:109:CYS:HA	12:H1:201:CYC:CBB	2.06	0.86
3:LA:111:ASN:O	11:aA:532:ALA:N	2.08	0.86
3:J2:108:ARG:NH2	6:M2:155:ASN:HB3	1.91	0.86
6:M2:278:ARG:NH2	1:j7:67:ARG:CZ	2.27	0.86
3:Q4:106:GLU:HA	3:Q4:110:LEU:HB2	1.58	0.86
1:X5:110:ASN:OD1	10:j5:466:LEU:HB3	1.76	0.86
12:Z5:201:CYC:OB	10:k5:353:ASN:HB2	1.73	0.86
10:k5:1008:PHE:CE1	1:p7:87:TYR:OH	2.28	0.86
1:T7:68:PRO:HB3	1:V7:14:VAL:O	1.74	0.86
8:c7:96:ILE:HG12	8:c7:152:TYR:CE1	2.11	0.86
1:d7:77:ARG:HH22	9:x7:63:ALA:HB3	0.84	0.86
3:L8:71:GLY:CA	11:a9:82:GLN:CG	2.54	0.86
4:M8:225:LYS:CA	12:M8:301:CYC:CGA	2.42	0.86
11:aA:351:THR:HB	11:aA:352:PRO:HD2	0.86	0.86
1:A:16:GLY:HA2	8:a5:90:ARG:NH1	1.91	0.86
12:BA:202:CYC:HMD1	12:BA:202:CYC:NC	1.88	0.86
3:HA:113:LEU:CD1	12:HA:202:CYC:HMB3	2.05	0.86
3:J2:120:LEU:HD21	6:M2:178:HIS:CE1	2.11	0.86
6:M2:127:SER:HB2	3:F2:84:ARG:HH22	1.39	0.86
3:U4:120:LEU:HD12	4:M4:254:LEU:CG	1.94	0.86
3:Y4:89:ILE:CB	3:Y4:92:TYR:CE2	2.58	0.86
3:Y4:106:GLU:HB2	3:Y4:166:LYS:HD3	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:10:ASN:ND2	10:k5:557:VAL:HB	1.90	0.86
10:j5:978:LEU:CD1	1:v7:107:ARG:NH2	2.38	0.86
10:k5:1151:GLN:O	1:p7:122:PRO:CB	2.24	0.86
8:Q7:12:ASP:C	9:z7:46:LYS:HZ1	1.81	0.86
8:i7:94:TYR:CD2	1:j7:9:ILE:CG2	2.59	0.86
8:a7:35:ARG:HH22	8:a7:144:ASP:HB3	1.40	0.86
2:X8:67:THR:HB	3:T9:28:THR:HG22	1.31	0.86
4:M8:214:GLY:HA3	5:Z8:28:HIS:CE1	2.10	0.86
3:L9:83:LEU:CD1	2:G9:119:THR:HG21	2.05	0.86
3:J9:65:ASP:HB2	11:a9:354:VAL:CG2	2.06	0.86
3:F2:82:CYS:HB2	12:F2:201:CYC:HMD3	1.55	0.86
1:Z:73:TYR:CE1	10:j5:162:TRP:HZ2	1.65	0.86
3:HA:117:TYR:CZ	12:HA:202:CYC:HHB	2.10	0.86
3:LA:14:LEU:HD21	11:aA:358:PRO:N	1.90	0.86
3:LA:52:ILE:CD1	3:LA:87:GLU:HA	2.06	0.86
4:MA:184:ILE:HG22	12:VA:201:CYC:HBA2	1.56	0.86
2:QA:67:THR:O	2:U1:46:SER:CB	2.24	0.86
2:QA:119:THR:HG21	3:TA:83:LEU:HD22	0.88	0.86
3:TA:28:THR:HG22	2:X4:67:THR:HB	1.31	0.86
2:G3:111:ALA:CB	3:L3:77:ARG:HE	1.89	0.86
12:L3:202:CYC:HBA1	11:a9:738:LEU:HD12	1.58	0.86
3:F4:108:ARG:CZ	4:M4:9:GLN:HG2	1.87	0.86
12:F5:201:CYC:HBA1	10:k5:591:ILE:HG23	1.56	0.86
1:Z5:110:ASN:O	10:k5:352:ILE:CD1	2.24	0.86
10:j5:988:ALA:CA	1:h7:106:GLU:OE2	2.24	0.86
10:j5:1043:GLU:CB	8:e7:14:GLU:OE2	2.23	0.86
10:k5:199:THR:HG22	12:k5:1201:CYC:HBC2	1.58	0.86
3:D1:68:ARG:HH22	3:X1:68:ARG:NH1	1.74	0.86
12:d7:201:CYC:HMA2	9:x7:38:PHE:HD1	1.41	0.86
8:o7:5:THR:OG1	1:p7:3:ASP:OD2	1.93	0.86
1:r7:68:PRO:HB3	1:t7:14:VAL:O	1.74	0.86
4:M9:65:ARG:HD2	3:F9:111:ASN:HD21	1.38	0.86
11:a9:371:VAL:HG11	11:a9:507:PHE:CD2	2.10	0.86
11:aA:578:MET:HE3	11:aA:582:MET:HE1	1.58	0.86
11:aA:710:THR:HG23	11:aA:807:GLN:HG3	1.58	0.86
12:JA:202:CYC:HBB3	11:aA:516:GLN:HG3	1.57	0.85
4:MA:58:TYR:CE2	11:aA:496:ARG:NH2	2.44	0.85
12:Z3:201:CYC:HB	4:M3:188:LEU:CD2	1.88	0.85
3:B4:108:ARG:C	4:M4:61:ASN:HA	2.00	0.85
2:U3:46:SER:C	2:Q9:74:TYR:CZ	2.53	0.85
4:M4:128:ALA:CB	4:M4:142:PHE:CE1	2.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:148:LYS:HZ2	5:Z4:52:ARG:CD	1.88	0.85
8:W5:16:ARG:CB	1:X5:90:ARG:HH11	1.81	0.85
1:b5:27:LEU:CD1	10:k5:172:LEU:HD22	2.06	0.85
8:i7:94:TYR:CD2	1:j7:9:ILE:HG21	2.11	0.85
1:l7:68:PRO:HB3	1:n7:14:VAL:O	1.74	0.85
4:M8:104:ALA:HB3	2:P8:14:SER:N	1.90	0.85
3:O8:95:TYR:CE2	3:O8:108:ARG:NH2	2.44	0.85
3:L9:52:ILE:CD1	3:L9:87:GLU:CA	2.49	0.85
4:M9:274:VAL:HG21	2:W9:111:ALA:HB3	1.57	0.85
11:aA:414:ALA:HB1	11:aA:428:PHE:HE1	1.40	0.85
11:aA:776:TYR:HD1	12:H1:201:CYC:OB	1.55	0.85
1:A:127:VAL:HG11	1:R5:15:GLN:HG2	1.55	0.85
3:DA:68:ARG:HH22	3:XA:68:ARG:HH12	0.88	0.85
5:NA:50:LEU:HD21	12:TA:301:CYC:O1D	1.74	0.85
3:TA:32:LYS:HE2	2:X4:57:GLN:CD	2.01	0.85
3:D3:68:ARG:HH22	3:X3:68:ARG:NH1	1.74	0.85
5:Z4:28:HIS:CB	5:Z4:35:ASP:HA	2.05	0.85
1:B5:107:ARG:NH2	10:k5:541:THR:OG1	2.09	0.85
12:B5:201:CYC:OB	9:z5:23:LEU:N	2.09	0.85
10:j5:138:PRO:HB2	10:j5:201:VAL:HG11	1.55	0.85
10:j5:298:ARG:HH21	10:j5:310:LYS:HD3	1.40	0.85
10:j5:631:HIS:HD2	10:j5:664:MET:HE3	1.38	0.85
10:k5:325:ASN:O	10:k5:325:ASN:ND2	2.08	0.85
10:k5:1118:THR:OG1	12:k5:1204:CYC:O2A	1.94	0.85
1:P7:14:VAL:O	1:N7:68:PRO:HB3	1.74	0.85
3:L8:109:CYS:HA	12:a9:901:CYC:CAB	2.05	0.85
4:M8:144:ARG:HG2	4:M8:204:ILE:CD1	2.06	0.85
4:M8:223:GLY:C	12:M8:301:CYC:HBA2	2.00	0.85
3:D9:68:ARG:HH22	3:X9:68:ARG:HH12	0.88	0.85
3:JA:65:ASP:HB2	11:aA:354:VAL:CG2	2.05	0.85
12:J3:202:CYC:C3A	11:a9:798:SER:OG	2.22	0.85
4:M3:118:TYR:HD2	3:X3:84:ARG:HH21	0.88	0.85
2:E4:1:MET:H3	4:M4:10:ARG:HH21	0.87	0.85
4:M4:222:ARG:HG3	4:M4:222:ARG:HH11	1.38	0.85
10:k5:298:ARG:HH21	10:k5:310:LYS:HD3	1.40	0.85
8:g7:63:PRO:HD2	11:aA:336:ILE:HG21	0.86	0.85
8:i7:50:ILE:HG22	8:i7:133:MET:HG2	1.56	0.85
12:B8:202:CYC:HBD1	4:M8:53:LEU:HB3	1.58	0.85
4:M9:163:ASN:HD21	12:V9:201:CYC:HMA3	1.42	0.85
4:MA:181:GLN:HE22	3:VA:120:LEU:HD21	1.39	0.85
3:H2:84:ARG:O	3:H2:85:ASP:C	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M3:120:LEU:HD21	3:X3:84:ARG:HH11	1.40	0.85
5:N3:39:PRO:O	3:T3:116:THR:OG1	1.95	0.85
12:B1:202:CYC:HBA2	11:aA:684:ASN:HB2	0.88	0.85
3:U4:115:GLU:CD	4:M4:70:SER:HB2	2.00	0.85
8:O5:35:ARG:HH22	8:O5:144:ASP:HB3	1.40	0.85
8:c5:73:TYR:HE2	6:M6:9:ARG:NH1	1.72	0.85
1:d5:83:ARG:HH12	10:j5:379:PHE:HE2	1.21	0.85
8:U5:35:ARG:HH22	8:U5:144:ASP:HB3	1.40	0.85
10:j5:1123:ASN:O	10:j5:1123:ASN:ND2	2.08	0.85
10:j5:1125:ARG:NH2	1:t7:114:GLU:HB2	1.90	0.85
1:v7:68:PRO:O	11:aA:42:ARG:NE	2.09	0.85
9:y7:3:ARG:NH2	9:y7:67:VAL:CG1	2.38	0.85
3:U8:114:LYS:HE2	4:M8:13:LYS:CE	2.05	0.85
2:X8:67:THR:C	3:T9:28:THR:CG2	2.46	0.85
4:M9:35:THR:HA	12:B9:201:CYC:O2A	1.77	0.85
2:E9:33:ARG:HG2	2:I9:25:GLN:NE2	1.92	0.85
3:H9:107:ASP:HB3	11:a9:445:THR:HG22	1.55	0.85
11:a9:523:GLN:NE2	11:a9:548:LEU:HD13	1.91	0.85
11:a9:578:MET:HE3	11:a9:582:MET:HE1	1.58	0.85
4:MA:274:VAL:HG21	2:WA:111:ALA:HB3	1.57	0.85
2:A1:34:ALA:HB3	3:B1:31:VAL:HG11	1.59	0.85
2:G3:111:ALA:HB3	3:L3:77:ARG:HE	1.42	0.85
3:J3:77:ARG:HE	2:K3:111:ALA:HB3	1.41	0.85
6:M2:39:ARG:NH2	8:O5:66:VAL:HG11	1.90	0.85
2:N4:112:GLY:HA3	5:Z4:34:LEU:HB2	1.56	0.85
3:O4:95:TYR:CE2	3:O4:108:ARG:NH2	2.44	0.85
8:K5:20:PRO:HB3	8:U5:151:PHE:HB3	1.58	0.85
8:c5:82:LEU:HD11	6:M6:15:ILE:HG13	1.57	0.85
12:T5:201:CYC:HBB2	10:j5:482:GLN:NE2	1.92	0.85
10:k5:1008:PHE:HZ	1:p7:83:ARG:HH12	1.23	0.85
2:A8:65:TYR:O	2:A8:71:GLN:HG3	1.77	0.85
2:X8:74:TYR:CZ	2:S9:35:THR:HG22	1.89	0.85
3:Q8:72:ASN:CG	12:Z8:301:CYC:HMD3	2.02	0.85
3:L9:48:ALA:CB	2:K9:18:PHE:CZ	2.60	0.85
4:M9:58:TYR:CE2	11:a9:496:ARG:NH2	2.43	0.85
4:M1:222:ARG:HG3	4:M1:222:ARG:HH11	1.38	0.85
1:R5:106:GLU:CG	10:k5:505:VAL:HA	2.05	0.85
10:j5:56:ILE:HG23	10:j5:57:VAL:N	1.90	0.85
10:k5:1106:PHE:O	10:k5:1110:ILE:HD12	1.76	0.85
8:U7:49:ARG:NH1	1:l7:114:GLU:CD	2.34	0.85
2:X8:57:GLN:HA	3:T9:32:LYS:HZ1	0.72	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L8:113:LEU:HD22	12:a9:901:CYC:CMB	2.07	0.85
2:N8:112:GLY:N	5:Z8:34:LEU:CB	2.39	0.85
4:M9:181:GLN:HE22	3:V9:120:LEU:HD21	1.39	0.85
3:F9:153:CYS:HB3	12:F9:303:CYC:C4C	2.06	0.85
11:a9:476:ARG:NH1	11:a9:488:SER:HB2	1.78	0.85
11:aA:312:ASP:HB2	11:aA:315:LEU:HD13	1.57	0.85
5:NA:54:LEU:HD22	3:TA:84:ARG:CD	2.07	0.85
2:QA:149:GLU:OE2	2:UA:21:ASN:ND2	2.10	0.85
2:A1:65:TYR:O	2:A1:71:GLN:HG3	1.77	0.85
2:O3:34:ALA:HB3	3:P3:31:VAL:HG11	1.59	0.85
3:F4:113:LEU:H	4:M4:5:THR:HA	0.69	0.85
12:J4:201:CYC:HMA1	11:aA:176:ASN:HD21	1.40	0.85
2:N4:65:TYR:O	2:N4:71:GLN:HG3	1.77	0.85
3:Q4:82:CYS:HA	12:Z4:301:CYC:HAC2	1.58	0.85
8:A5:112:VAL:HG23	1:F5:75:THR:HG21	1.57	0.85
8:G5:119:LEU:HB3	12:G5:201:CYC:HBD1	1.58	0.85
12:J5:201:CYC:CBB	9:i5:42:GLN:NE2	2.40	0.85
8:U5:79:ALA:HA	6:M6:31:ASP:O	1.76	0.85
1:Z5:67:ARG:NH1	10:k5:705:THR:HB	1.92	0.85
10:j5:951:MET:HE1	10:j5:955:LEU:HG	1.57	0.85
8:q7:64:ASP:HB3	11:aA:69:ARG:HH22	1.39	0.85
9:x7:3:ARG:NH2	9:x7:67:VAL:CG1	2.39	0.85
2:X8:107:ASP:HB3	4:M8:273:ILE:HG23	1.58	0.85
4:M8:235:PHE:HB3	12:M8:301:CYC:CAA	2.05	0.85
3:Q8:120:LEU:HD12	3:Q8:122:THR:H	1.07	0.85
4:M9:113:ILE:HD11	4:M9:143:VAL:CG1	2.04	0.85
5:N9:16:PHE:CZ	3:T9:120:LEU:HD23	2.10	0.85
2:AA:65:TYR:O	2:AA:71:GLN:HG3	1.77	0.85
4:MA:273:ILE:CD1	3:VA:75:PRO:HD3	2.01	0.85
12:QA:201:CYC:CAA	3:TA:79:MET:HE3	2.07	0.85
8:C5:35:ARG:HH22	8:C5:144:ASP:HB3	1.41	0.85
8:G5:119:LEU:HD11	12:G5:201:CYC:C2A	2.06	0.85
1:f5:19:LEU:HD13	10:j5:172:LEU:CD1	2.04	0.85
1:P5:114:GLU:HG2	10:k5:496:GLU:OE2	1.77	0.85
3:J6:119:ALA:HB1	6:M6:261:LYS:N	1.92	0.85
10:j5:471:PRO:O	10:j5:501:ILE:HG12	1.77	0.85
10:k5:66:MET:SD	10:k5:66:MET:N	2.50	0.85
10:k5:136:VAL:CB	10:k5:137:PRO:HD2	2.04	0.85
10:k5:471:PRO:O	10:k5:501:ILE:HG12	1.77	0.85
8:O7:35:ARG:HH22	8:O7:144:ASP:HB3	1.41	0.85
8:U7:35:ARG:HH22	8:U7:144:ASP:HB3	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L8:120:LEU:O	11:a9:90:GLN:NE2	2.09	0.85
4:M8:141:GLU:HB2	4:M8:144:ARG:NH2	1.91	0.85
4:M8:197:ASP:CG	5:Z8:52:ARG:HG3	2.01	0.85
5:N9:61:LYS:CD	3:T9:108:ARG:O	2.20	0.85
11:aA:523:GLN:NE2	11:aA:548:LEU:HD13	1.91	0.85
11:aA:666:ASN:CB	12:aA:901:CYC:NB	2.38	0.85
11:aA:668:TYR:HE2	11:aA:670:LEU:CD2	1.89	0.85
6:M2:53:LEU:HD11	8:i7:76:LYS:HB2	1.59	0.85
3:L3:104:VAL:CG1	3:L3:108:ARG:HH22	1.89	0.85
2:U3:46:SER:O	2:Q9:74:TYR:OH	1.94	0.85
3:S4:108:ARG:O	12:S4:202:CYC:HBB1	1.75	0.85
4:M4:144:ARG:CZ	5:Z4:59:ARG:HH12	1.88	0.85
1:N5:83:ARG:HH12	10:k5:483:PHE:HZ	0.87	0.85
9:i5:12:PRO:HD3	9:i5:49:GLY:HA2	1.59	0.85
10:j5:748:ARG:NE	8:K7:106:GLU:OE2	2.08	0.85
10:k5:1056:PRO:HD2	10:k5:1057:LYS:N	1.89	0.85
8:i7:96:ILE:HG12	8:i7:152:TYR:CE1	2.11	0.85
4:M8:230:GLN:CA	12:M8:301:CYC:OB	2.23	0.85
2:A9:65:TYR:O	2:A9:71:GLN:HG3	1.77	0.85
4:M1:162:ASN:O	4:M1:166:THR:HG23	1.77	0.85
3:HA:116:THR:HG21	12:HA:202:CYC:CMA	2.06	0.85
5:NA:16:PHE:CZ	3:TA:120:LEU:HD21	2.12	0.85
3:J3:84:ARG:NH2	11:a9:670:LEU:N	2.23	0.85
2:A3:34:ALA:HB3	3:B3:31:VAL:HG11	1.59	0.85
4:M3:210:ILE:HD13	5:N3:59:ARG:HH11	1.42	0.85
1:N5:53:LYS:NZ	8:O5:120:GLN:CD	2.30	0.85
8:C5:27:LYS:O	8:C5:30:VAL:N	2.10	0.85
8:c5:9:VAL:HG13	10:j5:344:ARG:CZ	2.03	0.85
10:j5:631:HIS:CD2	10:j5:664:MET:HE3	2.12	0.85
10:j5:822:ARG:HH11	10:j5:822:ARG:CB	1.90	0.85
10:k5:822:ARG:HH11	10:k5:822:ARG:CB	1.90	0.85
10:k5:1023:SER:CB	12:k5:1202:CYC:HMA2	2.06	0.85
2:A6:65:TYR:O	2:A6:71:GLN:HG3	1.77	0.85
8:I7:35:ARG:HH22	8:I7:144:ASP:HB3	1.41	0.85
8:I7:161:GLN:CG	1:X7:49:THR:HG21	2.03	0.85
8:i7:39:ILE:HD13	8:i7:148:GLU:HB3	1.49	0.85
3:B8:68:ARG:NH1	3:U8:68:ARG:NH2	2.25	0.85
8:s7:35:ARG:HH22	8:s7:144:ASP:HB3	1.41	0.85
12:M8:302:CYC:HAC2	3:S8:78:ARG:HA	1.59	0.85
2:N8:112:GLY:CA	5:Z8:33:GLY:HA2	2.07	0.85
11:a9:351:THR:HB	11:a9:352:PRO:HD2	0.86	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:595:ARG:HG3	11:a9:596:THR:O	1.77	0.85
11:aA:667:THR:HG22	12:aA:901:CYC:CGA	2.05	0.85
5:N1:39:PRO:O	3:T1:116:THR:OG1	1.95	0.85
5:NA:22:LEU:HD22	5:NA:26:LEU:HD13	1.59	0.84
2:SA:35:THR:HG23	2:X4:74:TYR:HE1	1.41	0.84
3:L2:77:ARG:NH1	6:M2:70:GLU:CG	2.39	0.84
3:F4:108:ARG:CZ	4:M4:9:GLN:NE2	2.39	0.84
4:M4:148:LYS:HD2	5:Z4:52:ARG:HE	1.41	0.84
12:H5:201:CYC:HBA2	9:i5:26:THR:CG2	2.07	0.84
8:c5:114:GLU:OE1	10:j5:312:TYR:O	1.94	0.84
1:f5:114:GLU:CB	10:j5:491:THR:CG2	2.49	0.84
8:W5:17:TYR:HE2	1:X5:44:ILE:HG21	1.35	0.84
3:J6:120:LEU:HD21	6:M6:178:HIS:CE1	2.11	0.84
10:k5:951:MET:HE1	10:k5:955:LEU:HG	1.57	0.84
3:U8:114:LYS:NZ	4:M8:13:LYS:NZ	2.16	0.84
3:L8:109:CYS:CA	12:a9:901:CYC:HBB1	2.07	0.84
11:aA:312:ASP:CA	11:aA:315:LEU:N	2.40	0.84
11:aA:595:ARG:HG3	11:aA:596:THR:O	1.77	0.84
11:aA:800:THR:OG1	3:J1:120:LEU:HD21	1.77	0.84
4:M1:120:LEU:HD21	3:X1:84:ARG:HH11	1.40	0.84
3:LA:14:LEU:CD1	11:aA:358:PRO:HB3	1.93	0.84
4:MA:133:ARG:HB3	12:RA:201:CYC:CBA	2.07	0.84
4:MA:162:ASN:O	4:MA:166:THR:HG23	1.77	0.84
2:O1:65:TYR:O	2:O1:71:GLN:HG3	1.77	0.84
3:H2:77:ARG:HH12	6:M2:117:MET:CE	1.89	0.84
2:A4:34:ALA:HB3	3:B4:31:VAL:HG11	1.59	0.84
3:B4:116:THR:OG1	4:M4:56:MET:CB	2.12	0.84
5:N3:22:LEU:HD22	5:N3:26:LEU:HD13	1.59	0.84
2:O3:65:TYR:O	2:O3:71:GLN:HG3	1.77	0.84
4:M4:217:VAL:CG1	5:Z4:30:PRO:HB3	2.07	0.84
2:N4:111:ALA:CA	5:Z4:34:LEU:CG	2.55	0.84
3:Y4:88:ILE:CG2	3:Y4:91:ARG:HH22	1.90	0.84
5:Z4:42:SER:CA	12:Z4:301:CYC:CMA	2.54	0.84
12:B5:201:CYC:CBB	9:z5:21:ARG:HA	2.06	0.84
1:H5:143:PRO:CG	8:Q7:41:GLN:NE2	2.40	0.84
8:I5:27:LYS:O	8:I5:30:VAL:N	2.10	0.84
8:c5:9:VAL:HG13	10:j5:344:ARG:NH1	1.92	0.84
10:k5:194:CYS:HB2	12:k5:1201:CYC:CAC	2.06	0.84
10:k5:988:ALA:CB	1:b7:106:GLU:OE2	2.25	0.84
10:k5:1123:ASN:O	10:k5:1123:ASN:ND2	2.08	0.84
3:F6:130:ALA:HB3	12:F6:201:CYC:CBC	2.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i7:39:ILE:CD1	8:i7:148:GLU:HG3	1.87	0.84
12:B8:202:CYC:HBB2	4:M8:61:ASN:HB2	1.36	0.84
8:o7:29:PHE:HE2	1:p7:31:PHE:CE1	1.85	0.84
3:F9:153:CYS:HB2	12:F9:303:CYC:HAC1	0.88	0.84
11:a9:710:THR:HG23	11:a9:807:GLN:HG3	1.58	0.84
11:aA:365:LYS:HZ2	11:aA:365:LYS:HB2	1.42	0.84
11:aA:631:GLY:C	3:J1:111:ASN:ND2	2.35	0.84
11:aA:738:LEU:HD12	12:aA:902:CYC:HBA1	1.59	0.84
3:JA:111:ASN:ND2	11:aA:519:ARG:HG2	1.90	0.84
12:JA:202:CYC:HBB3	11:aA:516:GLN:CG	2.06	0.84
2:KA:18:PHE:CZ	3:LA:48:ALA:CB	2.60	0.84
4:MA:274:VAL:C	3:VA:77:ARG:HE	1.80	0.84
3:L3:120:LEU:HD21	11:a9:731:GLN:CG	2.06	0.84
3:F4:1:MET:C	4:M4:10:ARG:O	2.20	0.84
3:F4:88:ILE:HD11	11:aA:140:GLN:HG2	1.58	0.84
3:L4:68:ARG:HB2	11:aA:82:GLN:CB	2.07	0.84
4:M4:27:HIS:CD2	4:M4:34:ASP:HA	2.12	0.84
4:M4:82:ILE:HD13	12:M4:301:CYC:CGD	2.05	0.84
3:Q4:85:ASP:HA	3:Q4:88:ILE:HG13	1.59	0.84
8:A5:119:LEU:HB3	12:A5:201:CYC:HBD1	1.58	0.84
1:f5:110:ASN:OD1	1:V5:161:SER:OXT	1.95	0.84
1:P5:118:SER:OG	10:k5:498:ALA:HB1	1.75	0.84
8:U5:83:ARG:HG3	6:M6:31:ASP:HB2	1.58	0.84
10:j5:325:ASN:O	10:j5:325:ASN:ND2	2.08	0.84
10:k5:1008:PHE:CD1	1:p7:87:TYR:CZ	2.64	0.84
1:B7:68:PRO:HB3	1:D7:14:VAL:O	1.74	0.84
8:u7:103:PRO:HB3	1:v7:9:ILE:CG2	2.03	0.84
2:A9:34:ALA:HB3	3:B9:31:VAL:HG11	1.59	0.84
11:a9:312:ASP:HB2	11:a9:315:LEU:HD13	1.57	0.84
11:aA:668:TYR:CD1	3:J1:84:ARG:HD3	2.12	0.84
3:FA:151:GLY:N	3:F9:150:ARG:NE	2.22	0.84
3:B1:88:ILE:CD1	12:B1:202:CYC:C2B	2.54	0.84
2:E4:1:MET:H2	4:M4:10:ARG:NH2	1.56	0.84
2:P4:19:LEU:HG	3:Q4:95:TYR:CZ	2.12	0.84
8:M5:66:VAL:CG1	8:K7:68:PRO:CG	2.51	0.84
8:I5:35:ARG:HH22	8:I5:144:ASP:HB3	1.41	0.84
3:J6:108:ARG:NH2	6:M6:155:ASN:HB3	1.91	0.84
9:z5:12:PRO:HD3	9:z5:49:GLY:HA2	1.59	0.84
10:k5:733:SER:HB3	1:J7:154:ASP:OD2	1.77	0.84
10:k5:974:LEU:CD2	1:p7:1:MET:N	2.41	0.84
8:C7:15:ALA:HB1	1:D7:90:ARG:NH2	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I7:15:ALA:HB1	1:J7:90:ARG:NH2	1.92	0.84
8:g7:63:PRO:CD	11:aA:336:ILE:HG23	2.02	0.84
8:m7:15:ALA:HB1	1:n7:90:ARG:NH2	1.92	0.84
3:L8:65:ASP:C	11:a9:82:GLN:NE2	2.33	0.84
3:L8:71:GLY:CA	11:a9:82:GLN:NE2	2.40	0.84
4:M8:58:TYR:O	4:M8:61:ASN:CG	2.20	0.84
3:Q8:87:GLU:OE1	5:Z8:31:TRP:CZ3	2.30	0.84
5:N9:54:LEU:HD22	3:T9:84:ARG:CD	2.07	0.84
11:aA:558:VAL:CG1	11:aA:560:SER:OG	2.26	0.84
4:MA:163:ASN:ND2	12:VA:201:CYC:HMA3	1.92	0.84
5:NA:54:LEU:CD2	3:TA:84:ARG:HD2	2.06	0.84
12:J3:202:CYC:NB	11:a9:666:ASN:CB	2.39	0.84
2:A3:65:TYR:O	2:A3:71:GLN:HG3	1.77	0.84
1:N5:53:LYS:NZ	8:O5:120:GLN:HG3	1.88	0.84
8:A5:111:GLY:HA3	1:F5:76:ARG:HA	1.60	0.84
1:R5:110:ASN:OD1	10:k5:466:LEU:HB3	1.76	0.84
8:S5:14:GLU:HG2	10:j5:538:PHE:HE2	1.38	0.84
10:j5:804:GLU:OE1	9:w7:30:LYS:CE	2.26	0.84
10:j5:1017:ARG:HB3	10:j5:1017:ARG:NH2	1.91	0.84
10:j5:1024:LYS:CD	10:j5:1038:ARG:HH12	1.91	0.84
10:k5:966:SER:CB	1:p7:14:VAL:CG1	2.45	0.84
8:o7:90:ARG:CB	1:p7:18:TYR:CZ	2.59	0.84
1:p7:140:LEU:HD12	11:a9:342:ARG:CD	1.99	0.84
3:F8:88:ILE:HD11	11:a9:140:GLN:HG2	1.59	0.84
3:Q8:89:ILE:CA	3:Q8:92:TYR:HE2	1.57	0.84
4:M9:158:PHE:C	3:V9:108:ARG:CG	2.50	0.84
3:H9:120:LEU:CD1	12:H9:202:CYC:HAA1	1.96	0.84
11:aA:666:ASN:OD1	12:aA:901:CYC:OB	1.93	0.84
5:NA:61:LYS:CD	3:TA:108:ARG:O	2.20	0.84
2:OA:25:GLN:CG	2:YA:33:ARG:HG2	2.08	0.84
3:U4:120:LEU:HD11	12:U4:201:CYC:HBD1	0.87	0.84
4:M4:27:HIS:HE1	4:M4:35:THR:N	1.43	0.84
8:K5:80:LEU:CD1	12:K5:201:CYC:CAD	2.53	0.84
1:N5:110:ASN:OD1	10:k5:692:LEU:O	1.95	0.84
8:A5:119:LEU:HD11	12:A5:201:CYC:C2A	2.06	0.84
1:d5:67:ARG:NH2	10:j5:705:THR:OG1	2.10	0.84
1:b5:38:VAL:HG11	10:k5:40:VAL:HG12	1.60	0.84
10:j5:136:VAL:CB	10:j5:137:PRO:HD2	2.04	0.84
10:j5:793:SER:CB	12:T7:201:CYC:O2A	2.25	0.84
10:j5:978:LEU:CG	1:v7:107:ARG:NH2	2.40	0.84
10:j5:1054:SER:OG	1:r7:110:ASN:HB3	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:1118:THR:HG22	12:k5:1204:CYC:HMA2	1.59	0.84
10:k5:1146:THR:HB	1:p7:77:ARG:HH21	1.40	0.84
2:A6:34:ALA:HB3	3:B6:31:VAL:HG11	1.59	0.84
8:u7:23:LEU:CD2	1:v7:38:VAL:HG22	2.08	0.84
4:M8:162:ASN:O	4:M8:166:THR:HG23	1.77	0.84
3:Q8:89:ILE:CB	3:Q8:92:TYR:CE2	2.60	0.84
2:O9:65:TYR:O	2:O9:71:GLN:HG3	1.77	0.84
12:J9:202:CYC:HB	11:a9:512:TYR:CB	1.82	0.84
11:a9:95:ILE:HG22	11:a9:99:ALA:N	1.93	0.84
11:a9:632:ILE:CG2	11:a9:634:ALA:CB	2.55	0.84
11:aA:476:ARG:NH1	11:aA:488:SER:HB3	1.86	0.84
3:FA:150:ARG:C	3:F9:150:ARG:HE	1.86	0.84
4:MA:163:ASN:HD21	12:VA:201:CYC:HMA3	1.42	0.84
2:QA:33:ARG:NH1	12:VA:202:CYC:C4B	2.41	0.84
3:TA:28:THR:CG2	2:X4:67:THR:C	2.46	0.84
12:B3:202:CYC:HAA1	11:a9:684:ASN:HB2	1.59	0.84
3:Z3:111:ASN:CG	4:M3:258:LYS:HZ1	1.84	0.84
4:M3:162:ASN:O	4:M3:166:THR:HG23	1.77	0.84
2:N4:34:ALA:HB3	3:O4:31:VAL:HG11	1.59	0.84
5:Z4:41:GLN:HG3	12:Z4:301:CYC:C3B	2.07	0.84
8:U5:84:ASP:OD1	6:M6:26:PHE:CZ	2.31	0.84
8:W5:15:ALA:C	1:X5:90:ARG:HD2	1.96	0.84
10:j5:1008:PHE:CD1	12:v7:201:CYC:CBB	2.60	0.84
10:j5:1151:GLN:O	1:v7:122:PRO:CB	2.26	0.84
8:o7:90:ARG:CA	1:p7:18:TYR:CE2	2.61	0.84
3:H9:120:LEU:HD13	12:H9:202:CYC:C2A	2.08	0.84
2:I9:98:VAL:HG21	3:J9:19:LEU:HD11	1.60	0.84
11:aA:588:VAL:O	11:aA:590:PRO:HD3	1.77	0.84
2:EA:33:ARG:HG2	2:IA:25:GLN:NE2	1.92	0.84
3:HA:125:ARG:HE	8:S7:41:GLN:HE21	1.25	0.84
3:LA:77:ARG:CZ	11:aA:538:ARG:HH21	1.91	0.84
2:OA:65:TYR:O	2:OA:71:GLN:HG3	1.77	0.84
2:G3:111:ALA:HB3	3:L3:77:ARG:HG2	1.59	0.84
3:L4:68:ARG:HB3	11:aA:81:ASP:C	2.02	0.84
4:M4:205:ASP:HB2	5:Z4:63:ASN:ND2	1.93	0.84
12:M4:301:CYC:CAC	3:Y4:82:CYS:HB2	2.07	0.84
10:j5:971:VAL:HG13	1:t7:76:ARG:NH1	1.91	0.84
10:j5:1053:TYR:HB2	10:j5:1058:VAL:CG2	2.07	0.84
8:i7:25:ARG:NH2	8:s7:6:LYS:N	2.26	0.84
8:i7:39:ILE:HD12	8:i7:148:GLU:HG2	1.59	0.84
8:k7:75:GLU:O	11:a9:53:VAL:HG11	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a7:161:GLN:HG2	1:p7:49:THR:HG21	1.57	0.84
2:E8:1:MET:H2	4:M8:10:ARG:HH21	0.87	0.84
8:m7:35:ARG:HH22	8:m7:144:ASP:HB3	1.41	0.84
8:q7:45:GLU:CD	3:H1:125:ARG:NH2	2.35	0.84
9:y7:23:LEU:O	9:y7:23:LEU:HD12	1.78	0.84
4:M8:104:ALA:C	2:P8:14:SER:HB2	2.02	0.84
4:M8:190:ARG:NH1	4:M8:202:SER:OG	2.11	0.84
4:M9:134:ASN:ND2	5:N9:1:MET:H1	1.76	0.84
2:E9:2:LYS:HZ3	2:I9:17:ARG:HH12	0.84	0.84
11:aA:508:ARG:O	11:aA:513:GLN:NE2	2.10	0.84
2:EA:152:ALA:HB1	2:IA:21:ASN:HD21	1.42	0.84
3:Z3:84:ARG:HG3	4:M3:192:GLN:HG2	1.60	0.84
3:S4:82:CYS:SG	12:S4:202:CYC:CBC	2.66	0.84
4:M4:197:ASP:O	5:Z4:52:ARG:NH1	2.10	0.84
3:O4:95:TYR:HD2	3:O4:108:ARG:HH22	1.17	0.84
8:e5:45:GLU:CD	1:R5:139:GLY:HA2	2.03	0.84
1:T5:110:ASN:HD21	10:j5:692:LEU:HB3	0.83	0.84
1:Z5:28:LYS:CE	1:t7:143:PRO:HG2	1.97	0.84
10:j5:193:SER:OG	12:j5:1201:CYC:O2D	1.96	0.84
10:j5:1125:ARG:CZ	1:t7:114:GLU:HB3	2.05	0.84
8:i7:20:PRO:HG2	8:s7:155:TYR:CD2	2.11	0.84
3:B8:68:ARG:NH2	3:U8:68:ARG:HH22	1.65	0.84
8:o7:23:LEU:CD2	1:p7:38:VAL:HG22	2.08	0.84
1:p7:62:TYR:HB3	11:a9:601:ALA:HB1	1.59	0.84
2:N8:60:TYR:CG	2:N8:67:THR:HG23	2.13	0.84
2:N8:65:TYR:O	2:N8:71:GLN:HG3	1.77	0.84
2:N8:112:GLY:N	5:Z8:34:LEU:HB2	1.91	0.84
5:Z8:38:GLU:CA	12:Z8:301:CYC:HMB2	2.06	0.84
3:H9:107:ASP:HB3	11:a9:445:THR:CG2	2.07	0.84
11:a9:588:VAL:O	11:a9:590:PRO:HD3	1.77	0.84
11:aA:632:ILE:CG2	11:aA:634:ALA:CB	2.55	0.84
2:AA:34:ALA:HB3	3:BA:31:VAL:HG11	1.59	0.84
4:MA:274:VAL:CA	3:VA:77:ARG:NE	2.41	0.84
2:QA:162:SER:C	2:WA:118:ARG:CD	2.51	0.84
2:O1:25:GLN:CG	2:Y1:33:ARG:HG2	2.08	0.84
3:J2:119:ALA:HB1	6:M2:261:LYS:N	1.92	0.84
4:M4:104:ALA:CB	2:P4:14:SER:H	1.86	0.84
10:j5:74:ARG:HD3	10:j5:205:GLU:HG3	1.59	0.84
10:j5:1023:SER:HB3	12:f7:201:CYC:CMA	2.08	0.84
10:j5:1119:LEU:CD2	1:t7:87:TYR:CZ	2.60	0.84
10:j5:1124:TYR:OH	1:t7:119:LEU:HD21	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i7:46:ALA:HB1	8:i7:140:LEU:CD1	2.08	0.84
8:a7:37:LEU:HD13	1:b7:24:LEU:HD21	1.59	0.84
8:u7:23:LEU:O	1:v7:38:VAL:HG21	1.78	0.84
3:H8:84:ARG:HD2	11:a9:131:TYR:CE1	2.12	0.84
3:L9:52:ILE:CD1	3:L9:87:GLU:HA	2.06	0.84
4:M9:133:ARG:HB3	12:R9:201:CYC:CBA	2.07	0.84
11:aA:448:ASN:OD1	11:aA:474:PHE:HE1	1.60	0.84
4:M1:118:TYR:HD2	3:X1:84:ARG:HH21	0.88	0.84
3:LA:44:ILE:HG23	3:LA:90:LEU:HD21	1.60	0.83
12:J3:202:CYC:CGA	11:a9:667:THR:HG22	2.07	0.83
4:M4:91:VAL:HG22	2:P4:15:GLN:HA	1.60	0.83
4:M4:100:SER:OG	2:P4:9:ILE:HG22	1.77	0.83
12:B5:201:CYC:HBB2	9:z5:21:ARG:HG3	1.57	0.83
1:P5:114:GLU:HG2	10:k5:496:GLU:CB	2.06	0.83
1:V5:83:ARG:CZ	10:j5:649:PHE:CE2	2.60	0.83
10:j5:663:ALA:O	10:j5:664:MET:C	2.05	0.83
10:j5:822:ARG:HG3	1:H7:106:GLU:OE2	1.77	0.83
10:j5:868:ASP:O	9:w7:43:ARG:NE	2.11	0.83
10:k5:246:VAL:CG2	10:k5:257:THR:HG22	2.08	0.83
10:k5:1020:GLU:N	1:Z7:87:TYR:OH	2.10	0.83
10:k5:1053:TYR:HB2	10:k5:1058:VAL:CG2	2.07	0.83
1:B7:54:GLU:CD	11:a9:563:PHE:CD2	2.56	0.83
8:g7:35:ARG:HH22	8:g7:144:ASP:HB3	1.40	0.83
8:a7:52:LYS:CD	11:a9:321:ALA:CB	2.48	0.83
2:X8:57:GLN:HE22	3:T9:32:LYS:CG	1.91	0.83
4:M8:207:ASP:O	4:M8:210:ILE:O	1.96	0.83
2:A9:60:TYR:CG	2:A9:67:THR:HG23	2.13	0.83
11:aA:731:GLN:CG	3:L1:120:LEU:HD21	2.07	0.83
12:BA:201:CYC:O2A	4:MA:35:THR:HA	1.77	0.83
3:FA:145:PRO:HG3	12:F9:302:CYC:CMC	2.06	0.83
3:HA:107:ASP:HB3	11:aA:445:THR:CG2	2.07	0.83
2:A1:25:GLN:CG	2:K1:33:ARG:HG2	2.08	0.83
3:S4:120:LEU:HD11	12:S4:202:CYC:CHA	2.07	0.83
3:L4:68:ARG:CD	11:aA:81:ASP:HA	2.08	0.83
1:D5:3:ASP:N	1:D5:3:ASP:OD1	2.09	0.83
6:M6:127:SER:HB2	3:F6:84:ARG:HH22	1.39	0.83
10:j5:66:MET:SD	10:j5:66:MET:N	2.50	0.83
10:j5:1016:LEU:HB2	10:j5:1044:ASN:ND2	1.93	0.83
2:A8:25:GLN:CG	2:K8:33:ARG:HG2	2.08	0.83
8:s7:15:ALA:HB1	1:t7:90:ARG:NH2	1.92	0.83
3:L8:113:LEU:HD11	12:a9:901:CYC:HHB	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N8:115:GLU:HG3	5:Z8:32:PRO:HG3	1.57	0.83
2:O9:60:TYR:CG	2:O9:67:THR:HG23	2.13	0.83
11:aA:798:SER:CA	11:aA:800:THR:HG23	2.08	0.83
5:N1:1:MET:C	5:N1:3:VAL:H	1.86	0.83
2:A2:65:TYR:O	2:A2:71:GLN:HG3	1.77	0.83
5:NA:61:LYS:HZ2	12:TA:301:CYC:HBB2	1.42	0.83
2:OA:60:TYR:CG	2:OA:67:THR:HG23	2.13	0.83
12:H3:202:CYC:O2A	11:a9:776:TYR:CE2	2.31	0.83
3:Z3:116:THR:OG1	4:M3:259:ARG:NH1	2.12	0.83
4:M4:58:TYR:O	4:M4:61:ASN:CG	2.21	0.83
4:M4:138:SER:OG	12:Z4:301:CYC:HBB1	1.77	0.83
10:j5:209:ASN:ND2	10:j5:209:ASN:O	2.10	0.83
10:j5:286:VAL:HG21	10:j5:324:LYS:O	1.78	0.83
8:Q7:19:SER:HB3	8:C7:6:LYS:NZ	1.93	0.83
8:c7:15:ALA:C	1:d7:90:ARG:HE	1.79	0.83
8:c7:46:ALA:HB1	8:c7:140:LEU:CD1	2.08	0.83
8:o7:37:LEU:HD12	1:p7:28:LYS:CE	2.08	0.83
9:x7:23:LEU:HD12	9:x7:23:LEU:O	1.78	0.83
2:X8:33:ARG:HG2	2:N8:25:GLN:CG	2.08	0.83
3:Q8:92:TYR:CZ	3:Q8:109:CYS:SG	2.71	0.83
3:Y8:89:ILE:HG23	3:Y8:92:TYR:HH	1.06	0.83
2:A9:25:GLN:CG	2:K9:33:ARG:HG2	2.08	0.83
2:G1:111:ALA:HB3	3:L1:77:ARG:HG2	1.59	0.83
11:a9:508:ARG:O	11:a9:513:GLN:NE2	2.10	0.83
11:aA:249:GLU:O	11:aA:285:VAL:CG2	2.25	0.83
2:A4:65:TYR:O	2:A4:71:GLN:HG3	1.77	0.83
8:G5:107:ILE:HD13	1:H5:13:ASP:CG	2.03	0.83
12:V5:201:CYC:O2A	10:j5:649:PHE:HD2	1.60	0.83
3:J6:108:ARG:NH2	6:M6:155:ASN:CB	2.42	0.83
10:k5:209:ASN:O	10:k5:209:ASN:ND2	2.10	0.83
10:k5:761:ARG:O	10:k5:761:ARG:HD2	1.79	0.83
10:k5:1053:TYR:C	1:l7:106:GLU:O	2.21	0.83
2:A6:60:TYR:CG	2:A6:67:THR:HG23	2.13	0.83
8:O7:15:ALA:HB1	1:P7:90:ARG:NH2	1.92	0.83
12:b7:201:CYC:HBB2	9:x7:21:ARG:NE	1.93	0.83
9:y7:3:ARG:NH2	9:y7:67:VAL:HG12	1.92	0.83
3:O8:115:GLU:CB	5:Z8:70:ILE:O	2.25	0.83
3:Q8:120:LEU:HD11	3:Q8:122:THR:N	1.78	0.83
4:M9:160:THR:O	3:V9:108:ARG:HG2	1.78	0.83
5:N9:16:PHE:CZ	3:T9:120:LEU:HD21	2.12	0.83
11:a9:287:ALA:C	11:a9:289:THR:N	2.32	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:710:THR:CG2	11:a9:807:GLN:CB	2.47	0.83
11:aA:823:ILE:HG13	3:L1:75:PRO:HD2	1.59	0.83
2:AA:60:TYR:CG	2:AA:67:THR:HG23	2.13	0.83
3:FA:68:ARG:CZ	3:ZA:68:ARG:NH1	2.41	0.83
12:FA:301:CYC:HB	4:MA:53:LEU:CD1	1.67	0.83
12:FA:301:CYC:HB	4:MA:53:LEU:HD13	0.76	0.83
3:TA:32:LYS:CG	2:X4:57:GLN:HE22	1.91	0.83
12:R1:201:CYC:HBB2	5:N1:61:LYS:NZ	1.94	0.83
6:M2:28:ASN:CA	8:O5:80:LEU:HD23	2.09	0.83
4:M3:190:ARG:NH1	4:M3:202:SER:OG	2.11	0.83
3:H4:80:ALA:CB	3:H4:84:ARG:NH1	2.34	0.83
8:S5:41:GLN:CD	1:D7:143:PRO:CG	2.50	0.83
6:M6:118:GLU:OE2	2:I6:118:ARG:NH2	2.11	0.83
10:j5:238:ARG:HH11	10:j5:238:ARG:HG3	1.42	0.83
10:j5:934:ALA:HB2	1:J7:32:THR:CG2	2.06	0.83
10:k5:1052:PRO:CA	1:l7:106:GLU:OE2	2.26	0.83
10:k5:1125:ARG:CZ	1:n7:114:GLU:HB3	2.08	0.83
8:i7:92:VAL:HG13	8:i7:152:TYR:HB3	1.60	0.83
8:U7:15:ALA:HB1	1:V7:90:ARG:NH2	1.92	0.83
1:X7:118:SER:O	9:w7:61:GLN:NE2	2.11	0.83
8:c7:92:VAL:HG13	8:c7:152:TYR:HB3	1.60	0.83
8:c7:96:ILE:CA	8:c7:152:TYR:CZ	2.50	0.83
3:F8:111:ASN:HB3	4:M8:6:THR:HA	1.60	0.83
11:a9:107:ARG:CG	11:a9:108:PRO:CD	2.52	0.83
11:a9:476:ARG:NH1	11:a9:488:SER:HB3	1.86	0.83
11:aA:91:THR:CG2	11:aA:96:THR:HA	2.08	0.83
2:A2:34:ALA:HB3	3:B2:31:VAL:HG11	1.59	0.83
3:FA:151:GLY:H	3:F9:150:ARG:HE	1.14	0.83
5:NA:16:PHE:CZ	3:TA:120:LEU:HD23	2.10	0.83
6:M2:26:PHE:HB2	8:O5:87:TYR:HH	1.42	0.83
2:A4:60:TYR:CG	2:A4:67:THR:HG23	2.13	0.83
5:N3:3:VAL:HG11	3:P3:115:GLU:HB3	1.61	0.83
5:N3:54:LEU:CD1	12:R3:201:CYC:HB	1.81	0.83
1:L5:76:ARG:HA	8:G5:111:GLY:HA3	1.60	0.83
1:f5:19:LEU:CD1	10:j5:172:LEU:HD12	2.08	0.83
8:Q5:17:TYR:HE2	1:R5:44:ILE:HG21	1.35	0.83
10:j5:246:VAL:CG2	10:j5:257:THR:HG22	2.08	0.83
10:k5:978:LEU:HD21	1:p7:107:ARG:NE	1.93	0.83
8:c7:18:LEU:HD22	1:d7:97:LEU:CD1	2.07	0.83
2:X8:67:THR:O	3:T9:28:THR:HG21	1.78	0.83
3:B9:27:LEU:HA	3:B9:30:LEU:HD13	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:93:LEU:HD23	11:a9:252:ARG:HH11	1.34	0.83
11:aA:596:THR:HB	11:aA:597:THR:HG23	1.58	0.83
3:JA:114:LYS:CD	8:S7:60:GLN:NE2	2.42	0.83
2:QA:162:SER:O	2:WA:118:ARG:HD3	1.78	0.83
12:QA:201:CYC:HBB2	3:TA:75:PRO:HB3	1.32	0.83
2:A1:60:TYR:CG	2:A1:67:THR:HG23	2.13	0.83
3:J3:120:LEU:CD2	11:a9:800:THR:CG2	2.45	0.83
2:K3:33:ARG:HG2	2:A3:25:GLN:CG	2.08	0.83
2:K2:33:ARG:HG2	2:A2:25:GLN:CG	2.08	0.83
5:N3:61:LYS:NZ	12:R3:201:CYC:HBB2	1.94	0.83
2:O3:25:GLN:CG	2:Y3:33:ARG:HG2	2.08	0.83
3:B1:88:ILE:HG21	12:B1:202:CYC:C3B	2.07	0.83
3:L4:71:GLY:H	11:aA:82:GLN:CG	1.86	0.83
12:L4:202:CYC:OB	11:aA:239:TYR:CE1	2.32	0.83
4:M4:101:ASP:HA	2:P4:13:ASP:CG	2.03	0.83
4:M4:190:ARG:NH1	4:M4:202:SER:OG	2.11	0.83
1:b5:18:TYR:CG	10:k5:165:ARG:HG3	2.13	0.83
8:c7:12:ASP:HB2	1:d7:94:TYR:CE2	2.13	0.83
8:o7:23:LEU:HD23	1:p7:38:VAL:HG22	1.59	0.83
8:u7:37:LEU:HD12	1:v7:28:LYS:CE	2.08	0.83
9:x7:3:ARG:NH2	9:x7:67:VAL:HG12	1.92	0.83
3:F8:115:GLU:CG	4:M8:3:VAL:CG2	2.57	0.83
3:L8:68:ARG:HB3	11:a9:81:ASP:C	2.03	0.83
4:M9:162:ASN:O	4:M9:166:THR:HG23	1.77	0.83
3:D9:68:ARG:HH22	3:X9:68:ARG:CZ	1.90	0.83
11:a9:249:GLU:O	11:a9:285:VAL:CG2	2.25	0.83
3:DA:68:ARG:HH22	3:XA:68:ARG:CZ	1.90	0.83
12:QA:201:CYC:HBB1	3:TA:75:PRO:HB3	1.59	0.83
2:O1:60:TYR:CG	2:O1:67:THR:HG23	2.13	0.83
5:N3:1:MET:C	5:N3:3:VAL:H	1.86	0.83
4:M4:148:LYS:HE3	4:M4:197:ASP:OD2	1.79	0.83
4:M4:232:VAL:O	4:M4:235:PHE:HE2	1.62	0.83
8:A5:107:ILE:HD13	1:B5:13:ASP:CG	2.04	0.83
1:f5:17:LYS:O	10:j5:169:TYR:OH	1.95	0.83
8:W5:12:ASP:HB2	1:X5:94:TYR:CD2	2.14	0.83
1:X5:143:PRO:HB2	8:a5:38:ARG:NH1	1.94	0.83
10:j5:971:VAL:H	12:j5:1202:CYC:CGD	1.89	0.83
10:k5:362:LYS:CE	10:k5:363:HIS:NE2	2.42	0.83
10:k5:951:MET:HE3	10:k5:951:MET:O	1.79	0.83
10:k5:964:GLY:HA2	1:n7:69:GLY:HA3	1.58	0.83
10:k5:988:ALA:HA	1:b7:106:GLU:OE2	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:990:ARG:NH2	10:k5:1026:LYS:HZ1	1.74	0.83
10:k5:1008:PHE:HE1	1:p7:87:TYR:CD2	1.96	0.83
8:g7:37:LEU:HD13	1:h7:24:LEU:HD21	1.59	0.83
8:i7:20:PRO:CD	8:s7:155:TYR:CZ	2.61	0.83
1:T7:68:PRO:HB3	1:V7:14:VAL:C	2.04	0.83
12:B8:202:CYC:CHA	4:M8:54:ALA:N	2.41	0.83
8:o7:23:LEU:O	1:p7:38:VAL:HG21	1.78	0.83
1:r7:68:PRO:HB3	1:t7:14:VAL:C	2.04	0.83
3:L8:68:ARG:O	3:L8:69:PRO:O	1.97	0.83
4:M9:160:THR:CG2	4:M9:257:GLN:HB3	2.09	0.83
3:F9:68:ARG:CZ	3:Z9:68:ARG:NH1	2.41	0.83
11:a9:644:ARG:O	11:a9:645:PRO:C	2.22	0.83
11:aA:308:LEU:HD21	11:aA:315:LEU:CD1	2.09	0.83
2:A2:60:TYR:CG	2:A2:67:THR:HG23	2.13	0.83
3:HA:113:LEU:HD21	12:HA:202:CYC:HMB1	1.56	0.83
3:J3:77:ARG:NE	2:K3:107:ASP:HA	1.94	0.83
3:L4:120:LEU:O	11:aA:90:GLN:NE2	2.11	0.83
4:M4:128:ALA:C	4:M4:142:PHE:CE1	2.57	0.83
5:Z4:22:LEU:HD13	12:Z4:301:CYC:OB	1.78	0.83
5:Z4:41:GLN:HB2	12:Z4:301:CYC:CHB	2.08	0.83
8:A5:119:LEU:CD1	12:A5:201:CYC:C1A	2.57	0.83
8:G5:107:ILE:CG1	1:H5:13:ASP:OD2	2.27	0.83
8:Q5:8:ILE:HG23	1:R5:94:TYR:CD1	2.14	0.83
8:Q5:12:ASP:HB2	1:R5:94:TYR:CD2	2.14	0.83
2:K6:33:ARG:HG2	2:A6:25:GLN:CG	2.08	0.83
10:j5:1054:SER:HA	1:r7:107:ARG:HA	1.61	0.83
10:k5:74:ARG:HD3	10:k5:205:GLU:HG3	1.59	0.83
10:k5:930:LEU:HB3	1:D7:33:THR:CB	2.09	0.83
10:k5:1146:THR:CB	1:p7:77:ARG:HH22	1.85	0.83
8:I7:29:PHE:HZ	8:I7:98:ALA:O	1.62	0.83
8:c7:20:PRO:HG2	8:m7:155:TYR:HB3	1.60	0.83
12:B8:202:CYC:HMA3	4:M8:58:TYR:HB2	1.60	0.83
3:L8:109:CYS:CA	12:a9:901:CYC:CBB	2.54	0.83
3:Q8:78:ARG:HH11	12:Z8:301:CYC:HAD1	1.42	0.83
4:M9:190:ARG:NH1	4:M9:202:SER:OG	2.11	0.83
11:a9:365:LYS:HB2	11:a9:365:LYS:HZ2	1.41	0.83
11:a9:371:VAL:HG13	11:a9:507:PHE:HB2	1.60	0.83
11:a9:581:ARG:HG3	11:a9:581:ARG:HH11	1.43	0.83
2:OA:34:ALA:HB3	3:PA:31:VAL:HG11	1.59	0.83
3:TA:24:LEU:HD22	2:X4:68:GLN:HE21	1.44	0.83
3:B4:68:ARG:CZ	3:U4:68:ARG:NH2	2.34	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:162:ASN:O	4:M4:166:THR:HG23	1.77	0.83
4:M4:217:VAL:HG21	5:Z4:30:PRO:CB	2.06	0.83
4:M4:273:ILE:CD1	2:X4:108:TYR:CZ	2.61	0.83
2:N4:25:GLN:CG	2:X4:33:ARG:HG2	2.08	0.83
8:M5:140:LEU:HD22	1:J7:140:LEU:HG	1.59	0.83
8:C5:29:PHE:HZ	8:C5:98:ALA:O	1.62	0.83
10:j5:733:SER:HB3	1:D7:154:ASP:OD2	1.79	0.83
10:k5:934:ALA:HB3	1:D7:32:THR:HG21	1.42	0.83
1:B7:68:PRO:HB3	1:D7:14:VAL:C	2.04	0.83
1:b7:75:THR:HG22	8:c7:115:MET:HE2	1.60	0.83
11:a9:596:THR:HB	11:a9:597:THR:HG23	1.58	0.83
11:aA:803:ASN:HB3	3:J1:119:ALA:O	1.78	0.83
4:M1:81:ASP:N	3:X1:111:ASN:ND2	2.26	0.83
4:M1:210:ILE:HD13	5:N1:59:ARG:HH11	1.42	0.83
3:FA:37:ARG:HH22	3:FA:159:GLU:CD	1.87	0.82
2:QA:84:ARG:HH12	3:TA:67:ILE:HD12	1.44	0.82
2:O1:34:ALA:HB3	3:P1:31:VAL:HG11	1.59	0.82
3:L2:77:ARG:CZ	6:M2:70:GLU:CD	2.50	0.82
6:M2:278:ARG:NH2	1:j7:64:ASP:OD1	2.12	0.82
3:B4:86:MET:H	12:B4:202:CYC:HBC1	1.01	0.82
1:H5:143:PRO:CG	8:Q7:41:GLN:HE22	1.91	0.82
1:f5:114:GLU:CB	10:j5:491:THR:OG1	2.27	0.82
1:f5:161:SER:O	1:V5:101:PRO:HG2	1.77	0.82
1:P5:114:GLU:CG	10:k5:496:GLU:OE2	2.26	0.82
1:V5:114:GLU:OE1	10:j5:496:GLU:HG3	1.79	0.82
10:j5:362:LYS:CE	10:j5:363:HIS:NE2	2.42	0.82
10:j5:800:THR:HA	9:w7:30:LYS:HB2	1.61	0.82
10:j5:1009:ALA:HB2	1:v7:87:TYR:CZ	2.14	0.82
10:k5:663:ALA:O	10:k5:664:MET:C	2.05	0.82
10:k5:990:ARG:NE	10:k5:1026:LYS:HZ1	1.77	0.82
1:d7:87:TYR:OH	9:x7:38:PHE:HE2	1.56	0.82
4:M8:214:GLY:CA	5:Z8:28:HIS:ND1	2.41	0.82
3:F1:111:ASN:O	4:M1:39:SER:HB3	1.79	0.82
12:L9:201:CYC:CAB	2:K9:24:LEU:HB3	2.09	0.82
3:H9:117:TYR:CE1	12:H9:202:CYC:CHB	2.62	0.82
11:a9:312:ASP:CA	11:a9:315:LEU:N	2.40	0.82
11:aA:594:ARG:HH11	11:aA:594:ARG:HG3	1.44	0.82
4:M1:259:ARG:NH1	3:Z1:116:THR:OG1	2.12	0.82
5:N1:22:LEU:HD22	5:N1:26:LEU:HD13	1.59	0.82
2:A2:60:TYR:CB	2:A2:67:THR:HG23	2.09	0.82
5:NA:1:MET:C	5:NA:3:VAL:H	1.86	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J3:202:CYC:OB	11:a9:666:ASN:OD1	1.95	0.82
2:I2:118:ARG:NH2	6:M2:118:GLU:OE2	2.11	0.82
6:M2:57:GLU:OE1	8:i7:76:LYS:CD	2.26	0.82
2:A3:60:TYR:CG	2:A3:67:THR:HG23	2.13	0.82
2:A4:25:GLN:CG	2:K4:33:ARG:HG2	2.08	0.82
3:B4:108:ARG:CA	4:M4:61:ASN:CA	2.55	0.82
3:L3:1:MET:HG3	3:L3:104:VAL:CG1	2.09	0.82
4:M4:27:HIS:ND1	4:M4:34:ASP:HA	1.87	0.82
4:M4:98:ASP:HB3	3:Q4:92:TYR:HB2	1.59	0.82
8:K5:20:PRO:HD3	8:U5:155:TYR:HB2	1.59	0.82
3:Y4:87:GLU:CG	3:Y4:91:ARG:NH1	2.42	0.82
8:G5:6:LYS:NZ	8:S5:21:GLY:N	2.27	0.82
8:U5:83:ARG:HB2	6:M6:26:PHE:CE1	2.12	0.82
10:j5:761:ARG:O	10:j5:761:ARG:HD2	1.79	0.82
10:j5:931:VAL:CG2	1:J7:30:TYR:HA	2.09	0.82
10:k5:1024:LYS:CD	10:k5:1038:ARG:HH12	1.91	0.82
8:u7:90:ARG:CA	1:v7:18:TYR:CE2	2.61	0.82
4:M9:160:THR:CG2	4:M9:257:GLN:HB2	2.07	0.82
4:M9:163:ASN:ND2	12:V9:201:CYC:HMA3	1.92	0.82
5:N9:54:LEU:CD2	3:T9:84:ARG:HD2	2.06	0.82
2:O9:25:GLN:CG	2:Y9:33:ARG:HG2	2.08	0.82
2:A9:63:PHE:CB	2:A9:66:LEU:CD1	2.56	0.82
11:aA:95:ILE:HG22	11:aA:99:ALA:N	1.93	0.82
3:BA:111:ASN:O	4:MA:39:SER:HB3	1.79	0.82
4:MA:158:PHE:CA	3:VA:108:ARG:CD	2.56	0.82
2:OA:63:PHE:CB	2:OA:66:LEU:CD1	2.56	0.82
3:TA:28:THR:HG21	2:X4:67:THR:O	1.78	0.82
3:VA:108:ARG:CZ	3:VA:108:ARG:HB3	2.09	0.82
3:H3:62:GLU:OE1	8:k7:49:ARG:NH1	2.11	0.82
3:L2:75:PRO:HG2	3:L2:78:ARG:H	1.44	0.82
3:L3:119:ALA:CB	11:a9:813:PRO:C	2.52	0.82
4:M3:160:THR:CG2	4:M3:257:GLN:HB3	2.09	0.82
2:N4:60:TYR:CG	2:N4:67:THR:HG23	2.13	0.82
1:b5:34:GLY:CA	10:k5:47:PHE:HD2	1.91	0.82
10:k5:978:LEU:HD11	1:p7:107:ARG:NH2	1.94	0.82
10:k5:1050:PHE:CZ	1:l7:107:ARG:NH1	2.17	0.82
1:P7:14:VAL:C	1:N7:68:PRO:HB3	2.04	0.82
8:I7:161:GLN:CG	1:X7:49:THR:HG22	2.05	0.82
8:U7:22:GLU:C	8:U7:24:ASP:H	1.87	0.82
8:a7:22:GLU:HG2	8:a7:25:ARG:NH1	1.94	0.82
2:X8:57:GLN:CD	3:T9:32:LYS:HE2	2.01	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q8:117:TYR:CE1	5:Z8:39:PRO:HG2	2.14	0.82
11:a9:823:ILE:C	11:a9:824:VAL:OXT	2.14	0.82
11:aA:813:PRO:C	3:L1:119:ALA:CB	2.52	0.82
3:H1:81:ALA:HB1	12:H1:201:CYC:C3D	2.10	0.82
2:IA:1:MET:CE	2:IA:108:TYR:HE1	1.92	0.82
4:MA:113:ILE:HD11	4:MA:143:VAL:CG1	2.05	0.82
4:MA:190:ARG:NH1	4:MA:202:SER:OG	2.11	0.82
4:M4:201:ASP:CB	5:Z4:59:ARG:HD2	2.09	0.82
8:M5:19:SER:HG	8:A5:6:LYS:HZ2	1.25	0.82
8:W5:8:ILE:HG23	1:X5:94:TYR:CD1	2.14	0.82
10:j5:1024:LYS:HD3	10:j5:1038:ARG:HH12	1.44	0.82
10:k5:971:VAL:HG12	12:k5:1204:CYC:O1D	1.61	0.82
8:c7:101:VAL:HG11	8:c7:155:TYR:CZ	2.13	0.82
9:y7:9:ALA:CB	9:y7:44:ILE:CD1	2.58	0.82
2:N8:60:TYR:CB	2:N8:67:THR:HG23	2.10	0.82
4:M9:36:TYR:O	12:B9:201:CYC:HMA1	1.79	0.82
4:M9:58:TYR:CE2	11:a9:496:ARG:NH1	2.47	0.82
2:O9:34:ALA:HB3	3:P9:31:VAL:HG11	1.59	0.82
2:K9:17:ARG:NH1	2:K9:17:ARG:HB3	1.95	0.82
11:aA:107:ARG:CG	11:aA:108:PRO:CD	2.52	0.82
4:M1:190:ARG:NH1	4:M1:202:SER:OG	2.11	0.82
2:AA:25:GLN:CG	2:KA:33:ARG:HG2	2.08	0.82
2:AA:60:TYR:CB	2:AA:67:THR:HG23	2.09	0.82
3:BA:26:GLN:O	3:BA:30:LEU:HD12	1.80	0.82
2:IA:98:VAL:HG21	3:JA:19:LEU:HD11	1.60	0.82
2:KA:17:ARG:HB3	2:KA:17:ARG:NH1	1.95	0.82
2:G3:107:ASP:HA	3:L3:77:ARG:NE	1.94	0.82
3:J2:108:ARG:NH2	6:M2:155:ASN:CB	2.42	0.82
12:B4:202:CYC:HMA3	4:M4:58:TYR:HB2	1.60	0.82
2:O3:60:TYR:CB	2:O3:67:THR:HG23	2.10	0.82
3:O4:119:ALA:CB	5:Z4:72:GLU:CB	2.52	0.82
8:I5:25:ARG:HD3	8:I5:25:ARG:C	2.05	0.82
8:Y5:9:VAL:HG13	10:k5:344:ARG:CZ	2.07	0.82
1:b5:18:TYR:CZ	10:k5:165:ARG:CA	2.62	0.82
10:j5:1008:PHE:CD1	12:v7:201:CYC:HBB3	2.13	0.82
10:j5:1064:LYS:HD2	10:j5:1065:HIS:N	1.95	0.82
10:k5:286:VAL:HG21	10:k5:324:LYS:O	1.78	0.82
8:i7:101:VAL:HG11	8:i7:155:TYR:CZ	2.13	0.82
8:c7:112:VAL:CG1	8:c7:113:LYS:N	2.41	0.82
2:A8:60:TYR:CG	2:A8:67:THR:HG23	2.13	0.82
8:u7:17:TYR:CZ	1:v7:90:ARG:HA	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M8:214:GLY:HA3	5:Z8:28:HIS:CG	2.13	0.82
2:E9:152:ALA:HB1	2:I9:21:ASN:HD21	1.42	0.82
3:H9:78:ARG:HG2	12:H9:202:CYC:HAD1	1.62	0.82
11:a9:360:ALA:HA	11:a9:363:GLN:CD	2.04	0.82
11:a9:377:VAL:HG11	11:a9:390:ALA:HB1	1.60	0.82
11:aA:643:LEU:CD1	11:aA:766:ASN:HB3	2.09	0.82
4:MA:29:PRO:CD	11:aA:378:GLU:OE1	2.26	0.82
4:MA:159:CYS:HA	3:VA:108:ARG:HG3	1.61	0.82
4:MA:160:THR:O	3:VA:108:ARG:HG2	1.78	0.82
4:MA:263:PRO:C	3:VA:119:ALA:CB	2.53	0.82
2:QA:116:VAL:CG2	3:TA:80:ALA:N	2.43	0.82
3:J3:77:ARG:HG2	2:K3:111:ALA:HB3	1.59	0.82
2:O3:60:TYR:CG	2:O3:67:THR:HG23	2.13	0.82
4:M4:160:THR:CG2	4:M4:257:GLN:HB3	2.09	0.82
3:O4:115:GLU:OE2	5:Z4:69:GLU:OE2	1.98	0.82
8:A5:107:ILE:CG1	1:B5:13:ASP:OD2	2.27	0.82
8:e5:29:PHE:HZ	8:e5:98:ALA:O	1.62	0.82
10:j5:1008:PHE:HZ	1:v7:87:TYR:HE2	0.87	0.82
10:j5:1049:PHE:CZ	10:j5:1065:HIS:CE1	2.68	0.82
10:k5:238:ARG:HG3	10:k5:238:ARG:HH11	1.42	0.82
12:B8:202:CYC:HBB3	4:M8:61:ASN:HD22	1.43	0.82
8:o7:17:TYR:CZ	1:p7:90:ARG:HA	2.14	0.82
3:F8:91:ARG:NH2	11:a9:140:GLN:HE22	1.73	0.82
4:M8:230:GLN:HB3	12:M8:301:CYC:C4B	2.06	0.82
2:N8:115:GLU:CD	5:Z8:32:PRO:CG	2.50	0.82
3:O8:104:VAL:CA	5:Z8:61:LYS:NZ	2.40	0.82
3:Q8:110:LEU:HB3	3:Q8:170:SER:OG	1.80	0.82
3:L9:77:ARG:CZ	11:a9:538:ARG:HH21	1.91	0.82
4:M9:29:PRO:CD	11:a9:378:GLU:OE1	2.26	0.82
12:H9:202:CYC:OB	11:a9:474:PHE:CE1	2.32	0.82
1:A:110:ASN:OD1	10:k5:462:TYR:CZ	2.32	0.82
3:FA:150:ARG:HA	3:F9:150:ARG:HG3	1.52	0.82
6:M2:65:VAL:HG12	1:h7:59:ALA:O	1.78	0.82
3:F4:106:GLU:O	4:M4:6:THR:C	2.23	0.82
3:L4:63:GLN:O	3:L4:65:ASP:O	1.96	0.82
3:L4:68:ARG:CB	11:aA:81:ASP:HA	2.10	0.82
8:Q5:15:ALA:C	1:R5:90:ARG:HD2	1.97	0.82
1:T5:83:ARG:NH1	10:j5:483:PHE:CE1	2.47	0.82
10:k5:1016:LEU:HD12	10:k5:1017:ARG:CA	2.10	0.82
10:k5:1053:TYR:HB2	10:k5:1058:VAL:HG23	1.60	0.82
8:Q7:13:ALA:N	9:z7:46:LYS:NZ	2.24	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H7:68:PRO:HB3	1:J7:14:VAL:C	2.04	0.82
1:H7:136:VAL:CG1	11:aA:563:PHE:CE2	2.56	0.82
2:A8:34:ALA:HB3	3:B8:31:VAL:HG11	1.59	0.82
12:M8:302:CYC:HMD3	3:S8:77:ARG:CZ	2.09	0.82
2:N8:34:ALA:HB3	3:O8:31:VAL:HG11	1.59	0.82
5:N9:1:MET:C	5:N9:3:VAL:H	1.86	0.82
2:I9:1:MET:CE	2:I9:108:TYR:HE1	1.92	0.82
4:MA:58:TYR:CE2	11:aA:496:ARG:NH1	2.47	0.82
4:MA:205:ASP:OD2	5:NA:52:ARG:NH1	2.13	0.82
12:B4:202:CYC:CBB	4:M4:61:ASN:CG	2.53	0.82
8:M5:110:ILE:HD12	10:k5:533:LEU:HD12	1.61	0.82
8:G5:119:LEU:CD1	12:G5:201:CYC:C1A	2.57	0.82
1:Z5:67:ARG:NH1	10:k5:705:THR:CB	2.42	0.82
10:j5:951:MET:HE3	10:j5:951:MET:O	1.79	0.82
10:j5:1008:PHE:CE1	12:v7:201:CYC:C4B	2.63	0.82
10:k5:542:GLN:HE21	10:k5:560:VAL:HG12	1.42	0.82
10:k5:1077:ILE:C	12:k5:1203:CYC:CBA	2.39	0.82
1:R7:49:THR:HG21	8:C7:161:GLN:CG	2.10	0.82
8:a7:10:ASN:ND2	8:o7:10:ASN:ND2	2.28	0.82
1:v7:62:TYR:HB3	11:aA:602:PRO:CD	2.00	0.82
4:M8:148:LYS:HE3	4:M8:197:ASP:OD2	1.79	0.82
12:O8:201:CYC:CBA	5:Z8:50:LEU:HD13	2.10	0.82
2:G1:111:ALA:HB3	3:L1:77:ARG:HE	1.41	0.82
2:O1:60:TYR:CB	2:O1:67:THR:HG23	2.10	0.82
3:J3:119:ALA:O	11:a9:803:ASN:HB3	1.79	0.82
6:M2:57:GLU:CD	8:i7:76:LYS:NZ	2.37	0.82
3:B4:68:ARG:NH1	3:U4:68:ARG:NH2	2.25	0.82
1:N5:110:ASN:CG	10:k5:692:LEU:HB3	2.04	0.82
1:d5:67:ARG:NH1	10:j5:705:THR:OG1	2.12	0.82
1:f5:5:ILE:HD12	10:j5:46:PHE:CZ	2.15	0.82
10:j5:1153:VAL:HG21	1:v7:125:ALA:CB	1.94	0.82
3:D1:68:ARG:NH1	3:X1:68:ARG:NH2	2.27	0.82
8:C7:9:VAL:HG22	1:D7:107:ARG:HH22	1.45	0.82
8:i7:25:ARG:NH2	8:s7:3:VAL:O	2.13	0.82
8:o7:90:ARG:CD	1:p7:18:TYR:CE1	2.60	0.82
4:M9:39:SER:HB3	3:B9:111:ASN:O	1.79	0.82
4:M1:113:ILE:HD11	4:M1:143:VAL:CG1	2.04	0.82
3:L2:75:PRO:CG	3:L2:78:ARG:CB	2.52	0.82
3:B1:111:ASN:O	4:M1:6:THR:N	2.13	0.82
4:M4:273:ILE:HD12	2:X4:108:TYR:OH	1.78	0.82
2:P4:12:ALA:CB	3:Q4:95:TYR:OH	2.28	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A5:103:PRO:HA	10:k5:557:VAL:CG2	2.09	0.82
1:T5:53:LYS:HZ2	8:U5:120:GLN:HG3	1.44	0.82
8:U5:29:PHE:HE1	8:U5:99:GLY:CA	1.93	0.82
10:j5:741:GLN:C	1:J7:77:ARG:HH21	1.88	0.82
10:j5:930:LEU:O	1:J7:33:THR:HG21	1.79	0.82
10:k5:931:VAL:CG1	1:D7:29:ALA:HB1	2.07	0.82
10:k5:1015:TYR:C	10:k5:1017:ARG:HG2	2.02	0.82
3:F6:78:ARG:CD	12:F6:201:CYC:CGD	2.46	0.82
8:Q7:13:ALA:HA	9:z7:46:LYS:CE	2.09	0.82
8:a7:63:PRO:CD	11:a9:336:ILE:HG23	2.00	0.82
3:B8:120:LEU:CD1	4:M8:53:LEU:CB	2.48	0.82
12:B8:202:CYC:CBB	4:M8:61:ASN:CG	2.53	0.82
8:o7:27:LYS:HE2	1:p7:35:ALA:CB	1.95	0.82
8:o7:80:LEU:HD12	12:o7:201:CYC:CAD	2.10	0.82
4:M8:91:VAL:HA	2:P8:15:GLN:HA	1.60	0.82
4:M9:273:ILE:CD1	3:V9:75:PRO:CG	2.57	0.82
5:N9:54:LEU:HB2	12:T9:301:CYC:O2A	1.80	0.82
11:a9:308:LEU:HD21	11:a9:315:LEU:CD1	2.09	0.82
11:aA:360:ALA:HA	11:aA:363:GLN:CD	2.04	0.82
4:MA:134:ASN:ND2	5:NA:1:MET:H1	1.77	0.81
3:B1:84:ARG:CD	11:aA:680:SER:OG	2.27	0.81
10:j5:931:VAL:HG13	1:J7:29:ALA:HB3	1.62	0.81
10:j5:1008:PHE:CE1	1:v7:87:TYR:OH	2.33	0.81
10:k5:1054:SER:HA	1:l7:107:ARG:CA	2.10	0.81
10:k5:1064:LYS:HD2	10:k5:1065:HIS:N	1.95	0.81
8:U7:29:PHE:HE1	8:U7:99:GLY:CA	1.93	0.81
8:a7:29:PHE:HE1	8:a7:99:GLY:CA	1.93	0.81
8:c7:39:ILE:HD12	8:c7:148:GLU:HG2	1.59	0.81
2:A8:60:TYR:CB	2:A8:67:THR:HG23	2.10	0.81
12:B8:202:CYC:HMA1	4:M8:58:TYR:HB2	1.62	0.81
2:X8:68:GLN:HG3	3:T9:25:ASN:OD1	1.79	0.81
5:Z8:27:ALA:CB	12:Z8:301:CYC:HAB1	2.09	0.81
11:aA:371:VAL:HG13	11:aA:507:PHE:HB2	1.60	0.81
11:aA:746:TYR:CB	2:K1:14:SER:CB	2.55	0.81
4:M1:192:GLN:HG2	3:Z1:84:ARG:HG3	1.60	0.81
12:BA:201:CYC:HMA1	4:MA:36:TYR:O	1.79	0.81
2:IA:16:GLY:HA2	3:JA:91:ARG:HH11	1.43	0.81
3:H3:62:GLU:HB3	8:k7:49:ARG:NH1	1.94	0.81
6:M2:45:ILE:CD1	8:i7:78:THR:HG22	2.10	0.81
3:B3:111:ASN:O	4:M3:6:THR:N	2.13	0.81
4:M3:81:ASP:N	3:X3:111:ASN:ND2	2.26	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N3:31:TRP:HD1	2:S3:16:GLY:CA	1.89	0.81
3:H4:119:ALA:CA	11:aA:266:ASN:HB2	2.09	0.81
3:L4:68:ARG:O	3:L4:69:PRO:O	1.98	0.81
4:M4:100:SER:CB	3:Q4:1:MET:CE	2.50	0.81
4:M4:144:ARG:NH1	5:Z4:59:ARG:HH22	1.78	0.81
1:Z5:64:ASP:CB	10:k5:705:THR:HG23	2.01	0.81
8:a5:29:PHE:HE1	8:a5:99:GLY:CA	1.93	0.81
10:k5:931:VAL:CG2	1:D7:30:TYR:CA	2.57	0.81
1:d7:87:TYR:CE2	9:x7:38:PHE:CE1	2.67	0.81
8:s7:29:PHE:HE1	8:s7:99:GLY:CA	1.93	0.81
8:u7:23:LEU:HD23	1:v7:38:VAL:HG22	1.59	0.81
9:x7:9:ALA:CB	9:x7:44:ILE:CD1	2.58	0.81
2:X8:69:PRO:HB3	2:S9:39:GLU:HA	1.62	0.81
3:H8:84:ARG:HD2	11:a9:131:TYR:CE2	2.14	0.81
4:M9:205:ASP:OD2	5:N9:52:ARG:NH1	2.13	0.81
2:O9:60:TYR:CB	2:O9:67:THR:HG23	2.09	0.81
5:Z8:1:MET:C	5:Z8:3:VAL:H	1.86	0.81
2:G1:107:ASP:HA	3:L1:77:ARG:NE	1.94	0.81
3:FA:151:GLY:C	3:F9:150:ARG:HH21	1.77	0.81
12:QA:201:CYC:HMA1	3:TA:79:MET:HG2	1.61	0.81
2:A1:60:TYR:CB	2:A1:67:THR:HG23	2.10	0.81
3:B3:84:ARG:CD	11:a9:680:SER:OG	2.29	0.81
3:D3:68:ARG:NH1	3:X3:68:ARG:NH2	2.27	0.81
3:F3:111:ASN:O	4:M3:39:SER:HB3	1.79	0.81
3:B4:85:ASP:CA	12:B4:202:CYC:CAC	2.42	0.81
3:L3:84:ARG:HD2	11:a9:739:ASP:HA	1.62	0.81
4:M4:217:VAL:HG21	5:Z4:30:PRO:HA	1.62	0.81
2:N4:112:GLY:HA3	5:Z4:34:LEU:CB	2.10	0.81
3:Q4:85:ASP:HB2	12:Z4:301:CYC:CBC	2.10	0.81
5:Z4:44:TYR:HE2	5:Z4:46:THR:OG1	1.58	0.81
8:G5:61:ILE:HG21	8:o7:68:PRO:CG	2.10	0.81
8:I5:29:PHE:HE1	8:I5:99:GLY:CA	1.93	0.81
1:J5:87:TYR:CE2	9:i5:38:PHE:CE2	2.62	0.81
12:d5:201:CYC:O2A	10:j5:379:PHE:CD2	2.33	0.81
12:P5:201:CYC:CBB	10:k5:623:VAL:HG21	2.10	0.81
8:Y5:9:VAL:HG13	10:k5:344:ARG:NH1	1.95	0.81
1:b5:38:VAL:CG1	10:k5:40:VAL:HG12	2.10	0.81
1:b5:38:VAL:HG11	10:k5:40:VAL:CG1	2.08	0.81
6:M6:65:VAL:CG1	1:b7:59:ALA:O	2.28	0.81
10:k5:1024:LYS:HD3	10:k5:1038:ARG:HH12	1.44	0.81
10:k5:1025:LEU:HD23	10:k5:1030:ILE:HG21	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F6:126:SER:C	12:F6:201:CYC:CMC	2.54	0.81
8:I7:9:VAL:HG22	1:J7:107:ARG:HH22	1.44	0.81
8:i7:112:VAL:CG1	8:i7:113:LYS:N	2.41	0.81
8:c7:15:ALA:CB	1:d7:90:ARG:HH21	1.89	0.81
2:A8:63:PHE:CB	2:A8:66:LEU:CD1	2.55	0.81
3:F8:115:GLU:C	4:M8:3:VAL:CG1	2.53	0.81
3:L8:69:PRO:O	3:L8:71:GLY:N	2.13	0.81
4:M8:130:SER:HB3	12:M8:302:CYC:HAA1	1.63	0.81
3:Q8:117:TYR:CD1	3:Q8:120:LEU:HD21	2.14	0.81
4:M9:274:VAL:HG21	2:W9:111:ALA:CB	2.10	0.81
5:N9:6:GLY:C	3:R9:107:ASP:O	2.24	0.81
3:Y8:113:LEU:HD22	3:Y8:171:ILE:HG12	1.61	0.81
3:F9:153:CYS:CB	12:F9:303:CYC:CAC	2.31	0.81
3:H9:113:LEU:CD1	12:H9:202:CYC:HMB3	2.05	0.81
11:a9:91:THR:CG2	11:a9:96:THR:HA	2.08	0.81
11:a9:312:ASP:CA	11:a9:315:LEU:CA	2.58	0.81
11:a9:714:ARG:HD3	11:a9:809:ARG:HA	1.62	0.81
11:aA:48:LEU:O	11:aA:48:LEU:HD12	1.80	0.81
11:aA:708:HIS:HA	3:L1:108:ARG:NE	1.94	0.81
11:aA:714:ARG:HD3	11:aA:809:ARG:HA	1.62	0.81
4:MA:188:LEU:O	4:MA:188:LEU:HD12	1.80	0.81
2:OA:60:TYR:CB	2:OA:67:THR:HG23	2.09	0.81
3:J3:111:ASN:ND2	11:a9:631:GLY:C	2.36	0.81
3:J3:121:GLY:HA2	11:a9:804:ARG:NH2	1.96	0.81
6:M2:53:LEU:HD23	8:i7:80:LEU:HD21	1.58	0.81
1:N5:113:LYS:HZ2	1:Z5:155:TYR:HE2	1.29	0.81
3:Y4:80:ALA:O	3:Y4:84:ARG:HG3	1.80	0.81
8:A5:122:PRO:CD	12:A5:201:CYC:OC	2.27	0.81
1:b5:18:TYR:OH	10:k5:165:ARG:HB2	1.80	0.81
3:L6:77:ARG:HH21	6:M6:70:GLU:HG2	1.44	0.81
6:M6:283:VAL:HG11	8:Y7:75:GLU:HB3	1.62	0.81
10:j5:1015:TYR:C	10:j5:1017:ARG:HG2	2.02	0.81
10:j5:1147:TYR:CE1	11:aA:35:ARG:HB3	2.16	0.81
10:k5:385:PRO:O	10:k5:387:VAL:N	2.14	0.81
10:k5:386:ILE:CG2	10:k5:395:SER:C	2.52	0.81
10:k5:1043:GLU:HG2	8:Y7:14:GLU:OE2	1.81	0.81
10:k5:1153:VAL:HG22	1:p7:65:LEU:CD1	2.10	0.81
8:i7:47:ARG:NE	1:j7:18:TYR:CD2	2.49	0.81
2:E1:114:ARG:NH1	11:aA:671:GLU:OE2	2.13	0.81
12:B8:202:CYC:HMA1	4:M8:58:TYR:CA	2.10	0.81
1:l7:68:PRO:HB3	1:n7:14:VAL:C	2.04	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:q7:76:LYS:HZ1	11:aA:605:PRO:HB3	0.99	0.81
2:X8:68:GLN:HG3	3:T9:24:LEU:HB3	1.62	0.81
3:L8:86:MET:HG3	12:a9:901:CYC:HBC1	1.60	0.81
4:M8:127:SER:N	12:M8:302:CYC:CMA	2.22	0.81
3:Q8:80:ALA:HB1	5:Z8:33:GLY:HA3	1.63	0.81
3:L9:44:ILE:HG23	3:L9:90:LEU:HD21	1.60	0.81
5:Z8:22:LEU:HD13	5:Z8:26:LEU:HD22	1.63	0.81
2:A9:60:TYR:CB	2:A9:67:THR:HG23	2.09	0.81
11:a9:48:LEU:HD12	11:a9:48:LEU:O	1.80	0.81
11:a9:448:ASN:OD1	11:a9:474:PHE:HE1	1.60	0.81
4:M1:188:LEU:O	4:M1:188:LEU:HD12	1.80	0.81
2:A2:63:PHE:CB	2:A2:66:LEU:CD1	2.55	0.81
2:KA:24:LEU:HB3	12:LA:201:CYC:CAB	2.09	0.81
4:MA:160:THR:CG2	4:MA:257:GLN:HB3	2.09	0.81
2:QA:116:VAL:HA	3:TA:83:LEU:HD12	1.62	0.81
2:QA:116:VAL:HG13	3:TA:79:MET:HG3	1.62	0.81
3:P1:115:GLU:HB3	5:N1:3:VAL:HG11	1.61	0.81
12:B4:202:CYC:CBB	4:M4:61:ASN:ND2	2.44	0.81
3:B1:82:CYS:HA	12:B1:202:CYC:CHD	2.10	0.81
3:U4:120:LEU:CG	4:M4:254:LEU:HD21	2.10	0.81
4:M4:95:ALA:HA	5:Z4:38:GLU:HG3	1.63	0.81
12:H5:201:CYC:CBA	9:i5:26:THR:CG2	2.57	0.81
10:j5:283:ARG:CB	10:j5:284:PRO:HD2	2.10	0.81
10:j5:1018:LEU:HD12	10:j5:1035:PHE:HZ	1.36	0.81
10:k5:1049:PHE:CZ	10:k5:1065:HIS:CE1	2.68	0.81
10:k5:1147:TYR:CE1	11:a9:35:ARG:HB3	2.16	0.81
8:O7:44:THR:HG1	1:P7:18:TYR:HD2	1.25	0.81
8:g7:63:PRO:CD	11:aA:336:ILE:HG21	1.81	0.81
1:Z7:67:ARG:HD3	11:a9:311:LEU:HD22	0.81	0.81
8:a7:90:ARG:NH1	1:b7:16:GLY:HA2	1.96	0.81
8:c7:8:ILE:HG21	1:d7:94:TYR:HB3	1.63	0.81
8:c7:39:ILE:HD11	8:c7:148:GLU:HG2	1.60	0.81
8:c7:49:ARG:CZ	8:c7:140:LEU:HD21	2.11	0.81
8:u7:23:LEU:HB3	1:v7:38:VAL:HG11	0.82	0.81
8:u7:80:LEU:HD12	12:u7:201:CYC:CAD	2.10	0.81
3:U8:120:LEU:HD21	12:U8:201:CYC:HBD2	1.63	0.81
5:Z8:38:GLU:N	12:Z8:301:CYC:HMB2	1.95	0.81
11:a9:643:LEU:HD11	11:a9:689:VAL:CG2	2.10	0.81
11:aA:348:GLN:H	11:aA:348:GLN:NE2	1.76	0.81
11:aA:377:VAL:HG11	11:aA:390:ALA:HB1	1.60	0.81
3:FA:145:PRO:HG3	12:F9:302:CYC:HMC2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FA:151:GLY:H	3:F9:150:ARG:NH2	1.76	0.81
5:NA:61:LYS:HZ3	12:TA:301:CYC:CBB	1.88	0.81
2:A3:60:TYR:CB	2:A3:67:THR:HG23	2.09	0.81
3:B1:88:ILE:HG22	12:B1:202:CYC:HMB1	1.61	0.81
8:M5:68:PRO:HB3	8:e5:59:PHE:CB	2.11	0.81
8:G5:6:LYS:HZ2	8:S5:21:GLY:N	1.76	0.81
8:S5:68:PRO:CG	8:a5:59:PHE:HB3	2.11	0.81
10:j5:277:ILE:HG23	10:j5:284:PRO:CA	2.11	0.81
10:j5:931:VAL:O	1:J7:29:ALA:HB1	1.80	0.81
10:k5:148:TYR:O	10:k5:152:ARG:CG	2.28	0.81
10:k5:1016:LEU:HB2	10:k5:1044:ASN:ND2	1.94	0.81
8:O7:25:ARG:NH2	8:E7:25:ARG:HB2	1.93	0.81
1:D7:76:ARG:HD3	8:E7:110:ILE:HD11	1.62	0.81
8:g7:25:ARG:HH21	8:u7:25:ARG:NE	1.78	0.81
8:U7:9:VAL:HG22	1:V7:107:ARG:HH22	1.44	0.81
8:c7:11:ALA:HB3	1:d7:94:TYR:CZ	2.15	0.81
4:M8:235:PHE:HB2	12:M8:301:CYC:CAA	2.11	0.81
5:N9:7:ASP:H	3:R9:108:ARG:HA	1.46	0.81
3:J9:88:ILE:CD1	11:a9:512:TYR:CD1	2.62	0.81
11:a9:643:LEU:CD1	11:a9:766:ASN:HB3	2.11	0.81
11:aA:275:THR:HA	11:aA:278:LEU:HD11	0.86	0.81
5:N1:1:MET:HA	5:N1:1:MET:CE	2.10	0.81
12:B4:202:CYC:HMA1	4:M4:58:TYR:CA	2.10	0.81
3:L4:69:PRO:O	3:L4:71:GLY:N	2.13	0.81
8:G5:122:PRO:CD	12:G5:201:CYC:OC	2.27	0.81
8:U5:75:GLU:HG3	6:M6:36:ILE:CG1	2.10	0.81
8:U5:83:ARG:C	6:M6:26:PHE:HE1	1.88	0.81
6:M6:117:MET:CE	3:H6:77:ARG:HH12	1.89	0.81
10:k5:388:ARG:CD	10:k5:393:MET:H	1.93	0.81
10:k5:990:ARG:HE	10:k5:1026:LYS:HZ3	1.23	0.81
8:I7:25:ARG:NH2	8:W7:25:ARG:NE	2.28	0.81
8:c7:16:ARG:HA	1:d7:90:ARG:HD3	1.60	0.81
3:B8:81:ALA:CA	12:B8:202:CYC:CMD	2.56	0.81
9:y7:4:TYR:HB2	9:y7:58:THR:HG1	1.46	0.81
4:M8:87:ILE:HD12	3:Y8:77:ARG:HG3	1.49	0.81
4:M8:113:ILE:HD11	4:M8:143:VAL:CG1	2.04	0.81
5:N9:22:LEU:HD13	5:N9:26:LEU:HD22	1.63	0.81
3:H9:72:ASN:OD1	12:H9:202:CYC:C2D	2.29	0.81
3:J9:108:ARG:O	11:a9:517:ALA:CA	2.29	0.81
11:a9:31:SER:HG	11:a9:34:ILE:CB	1.86	0.81
11:a9:330:ASP:OD1	11:a9:330:ASP:N	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:636:ALA:O	11:a9:774:PHE:CD2	2.33	0.81
11:aA:803:ASN:CB	3:J1:119:ALA:O	2.29	0.81
2:KA:18:PHE:CE2	3:LA:48:ALA:HB2	2.16	0.81
5:NA:7:ASP:H	3:RA:108:ARG:HA	1.46	0.81
2:QA:120:PHE:HE2	3:TA:79:MET:SD	2.03	0.81
3:R1:116:THR:HA	5:N1:70:ILE:HG21	1.62	0.81
2:A4:60:TYR:CB	2:A4:67:THR:HG23	2.10	0.81
3:S4:82:CYS:SG	12:S4:202:CYC:HAC2	2.19	0.81
3:U4:108:ARG:O	4:M4:246:ALA:HB1	1.80	0.81
3:F4:84:ARG:HD3	11:aA:139:ILE:HG21	1.63	0.81
2:N4:60:TYR:CB	2:N4:67:THR:HG23	2.10	0.81
8:K5:17:TYR:HB3	1:L5:45:SER:HB3	1.62	0.81
8:C5:25:ARG:HD3	8:C5:25:ARG:C	2.05	0.81
10:j5:990:ARG:NE	10:j5:1026:LYS:NZ	2.28	0.81
10:j5:1008:PHE:CZ	1:v7:87:TYR:OH	2.32	0.81
10:k5:388:ARG:HG2	10:k5:394:PRO:HG3	1.63	0.81
8:C7:29:PHE:HE1	8:C7:99:GLY:CA	1.93	0.81
4:M8:188:LEU:HD12	4:M8:188:LEU:O	1.80	0.81
3:Q8:120:LEU:CD1	3:Q8:122:THR:CA	2.46	0.81
3:V9:108:ARG:HB3	3:V9:108:ARG:CZ	2.09	0.81
11:a9:594:ARG:HG3	11:a9:594:ARG:HH11	1.44	0.81
11:aA:644:ARG:O	11:aA:645:PRO:C	2.22	0.81
11:aA:668:TYR:HD1	3:J1:84:ARG:HD3	1.45	0.81
11:aA:804:ARG:NH2	3:J1:121:GLY:HA2	1.95	0.81
3:JA:114:LYS:HD3	8:S7:60:GLN:HE22	1.44	0.81
3:J3:14:LEU:HD13	11:a9:621:THR:HG21	0.83	0.81
3:J3:80:ALA:O	3:J3:84:ARG:HG3	1.80	0.81
3:D3:68:ARG:NH2	3:X3:68:ARG:CZ	2.44	0.81
3:H4:111:ASN:CG	11:aA:291:TYR:CZ	2.58	0.81
4:M4:104:ALA:C	2:P4:14:SER:CB	2.53	0.81
3:Q4:124:THR:CG2	3:Q4:171:ILE:O	2.29	0.81
8:O5:29:PHE:HE1	8:O5:99:GLY:CA	1.93	0.81
5:Z4:1:MET:C	5:Z4:3:VAL:H	1.86	0.81
1:H5:76:ARG:HD2	9:i5:14:LEU:O	1.81	0.81
1:V5:87:TYR:HE2	10:j5:649:PHE:HZ	1.25	0.81
10:j5:1053:TYR:HB2	10:j5:1058:VAL:HG23	1.60	0.81
10:k5:1049:PHE:CZ	10:k5:1065:HIS:HE1	1.99	0.81
8:a7:33:GLY:HA3	1:b7:31:PHE:CZ	2.16	0.81
8:o7:58:LEU:HD12	8:o7:58:LEU:O	1.79	0.81
2:X8:108:TYR:OH	4:M8:273:ILE:HD12	1.81	0.81
4:M9:81:ASP:H	3:Z9:111:ASN:HD22	1.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:188:LEU:HD12	4:M9:188:LEU:O	1.80	0.81
5:N9:22:LEU:HD22	5:N9:26:LEU:HD13	1.59	0.81
11:aA:75:ALA:CB	11:aA:81:ASP:OD2	2.29	0.81
11:aA:581:ARG:HH11	11:aA:581:ARG:HG3	1.43	0.81
11:aA:666:ASN:HB2	12:aA:901:CYC:CMA	2.11	0.81
12:HA:202:CYC:NB	11:aA:474:PHE:CE2	2.49	0.81
3:JA:108:ARG:HA	11:aA:517:ALA:HA	1.63	0.81
4:MA:274:VAL:HG21	2:WA:111:ALA:CB	2.10	0.81
2:QA:33:ARG:HG2	2:UA:25:GLN:CG	2.11	0.81
6:M2:28:ASN:CB	8:O5:80:LEU:HG	2.07	0.81
3:O4:95:TYR:HD2	3:O4:108:ARG:NH2	1.75	0.81
8:O5:29:PHE:HZ	8:O5:98:ALA:O	1.62	0.81
8:U5:35:ARG:NH2	8:U5:144:ASP:HB3	1.96	0.81
8:a5:29:PHE:HZ	8:a5:98:ALA:O	1.62	0.81
10:j5:190:LEU:C	10:j5:194:CYS:HG	1.87	0.81
10:j5:221:LYS:HZ3	10:j5:221:LYS:HB3	1.44	0.81
10:j5:385:PRO:O	10:j5:387:VAL:N	2.13	0.81
10:j5:388:ARG:HG2	10:j5:394:PRO:HG3	1.63	0.81
8:O7:9:VAL:HG22	1:P7:107:ARG:HH22	1.44	0.81
8:i7:94:TYR:CZ	1:j7:9:ILE:CG2	2.58	0.81
8:W7:12:ASP:O	9:w7:46:LYS:NZ	2.12	0.81
8:c7:15:ALA:HB1	1:d7:90:ARG:HH21	1.44	0.81
8:o7:29:PHE:CZ	1:p7:31:PHE:HZ	1.99	0.81
8:u7:58:LEU:O	8:u7:58:LEU:HD12	1.79	0.81
4:M9:185:ALA:HA	12:V9:201:CYC:CBA	2.11	0.81
4:M9:263:PRO:C	3:V9:119:ALA:CB	2.53	0.81
2:EA:2:LYS:HZ3	2:IA:17:ARG:NH1	1.59	0.80
3:FA:150:ARG:CG	3:F9:150:ARG:HA	2.11	0.80
4:MA:81:ASP:H	3:ZA:111:ASN:HD22	1.28	0.80
5:NA:22:LEU:HD13	5:NA:26:LEU:HD22	1.63	0.80
3:TA:32:LYS:HZ1	2:X4:57:GLN:HA	0.66	0.80
3:O4:107:ASP:OD2	5:Z4:66:ARG:HD2	1.80	0.80
8:E5:161:GLN:NE2	1:P5:49:THR:HG22	1.96	0.80
1:R5:107:ARG:HB3	10:k5:520:ARG:HH22	1.47	0.80
1:T5:14:VAL:O	1:X5:68:PRO:HB3	1.81	0.80
6:M6:273:PHE:CE1	1:d7:128:GLY:HA2	2.16	0.80
10:k5:277:ILE:HG23	10:k5:284:PRO:CA	2.11	0.80
10:k5:990:ARG:NE	10:k5:1026:LYS:NZ	2.28	0.80
8:O7:29:PHE:HE1	8:O7:99:GLY:CA	1.93	0.80
1:B7:136:VAL:HA	11:a9:563:PHE:CZ	2.15	0.80
8:I7:29:PHE:HE1	8:I7:99:GLY:CA	1.93	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:g7:22:GLU:HG2	8:g7:25:ARG:NH1	1.94	0.80
8:c7:50:ILE:CD1	8:c7:137:ALA:HB2	2.11	0.80
8:o7:18:LEU:CD1	1:p7:97:LEU:CD1	2.58	0.80
3:H8:119:ALA:CA	11:a9:266:ASN:HB2	2.09	0.80
2:I8:112:GLY:CA	11:a9:133:LEU:HD21	2.10	0.80
4:M8:160:THR:CG2	4:M8:257:GLN:HB3	2.09	0.80
3:Q8:84:ARG:NH1	5:Z8:29:HIS:CD2	2.48	0.80
12:L9:202:CYC:O2A	11:a9:404:TYR:CB	2.29	0.80
5:Z8:41:GLN:CB	12:Z8:301:CYC:C4B	2.55	0.80
3:X1:80:ALA:O	3:X1:84:ARG:HG3	1.81	0.80
3:BA:27:LEU:HA	3:BA:30:LEU:HD13	1.61	0.80
5:NA:6:GLY:C	3:RA:107:ASP:O	2.24	0.80
3:B3:88:ILE:HG21	12:B3:202:CYC:HAB2	1.28	0.80
3:B3:88:ILE:HG23	12:B3:202:CYC:CAB	1.97	0.80
2:E3:114:ARG:NH1	11:a9:671:GLU:OE2	2.14	0.80
4:M4:82:ILE:HD13	12:M4:301:CYC:O1D	1.80	0.80
3:Q4:120:LEU:HD21	5:Z4:42:SER:HB2	0.82	0.80
12:B5:201:CYC:HBB2	9:z5:21:ARG:CA	2.10	0.80
1:P5:87:TYR:HE2	10:k5:649:PHE:HZ	1.26	0.80
1:T5:110:ASN:ND2	10:j5:692:LEU:O	2.13	0.80
8:W5:4:LEU:CD2	8:W5:26:ILE:HD13	2.12	0.80
1:X5:63:SER:OG	10:j5:706:PRO:CA	2.24	0.80
9:z5:23:LEU:C	9:z5:25:ASN:N	2.30	0.80
10:j5:1119:LEU:HD21	1:t7:87:TYR:CE1	2.15	0.80
8:C7:29:PHE:HZ	8:C7:98:ALA:O	1.62	0.80
8:i7:50:ILE:CD1	8:i7:137:ALA:HB2	2.11	0.80
8:o7:4:LEU:CD2	8:o7:26:ILE:HD13	2.12	0.80
8:o7:23:LEU:HB3	1:p7:38:VAL:HG11	0.82	0.80
8:s7:35:ARG:NH2	8:s7:144:ASP:HB3	1.97	0.80
8:u7:17:TYR:CD2	1:v7:93:THR:CG2	2.64	0.80
2:X8:69:PRO:C	2:S9:42:ARG:HD2	2.06	0.80
3:O8:108:ARG:N	5:Z8:61:LYS:HD3	1.95	0.80
11:a9:348:GLN:H	11:a9:348:GLN:NE2	1.76	0.80
12:JA:202:CYC:HB	11:aA:512:TYR:CB	1.82	0.80
4:MA:58:TYR:CZ	11:aA:496:ARG:CZ	2.64	0.80
3:B3:88:ILE:HG21	12:B3:202:CYC:CMB	2.10	0.80
3:B4:107:ASP:O	4:M4:61:ASN:O	1.97	0.80
2:O3:63:PHE:CB	2:O3:66:LEU:CD1	2.56	0.80
3:Q4:96:ALA:C	3:Q4:98:LEU:H	1.89	0.80
3:Y4:87:GLU:CG	3:Y4:91:ARG:HH11	1.93	0.80
10:j5:1023:SER:CB	12:f7:201:CYC:HMA2	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1025:LEU:HD23	10:j5:1030:ILE:HG21	1.62	0.80
10:k5:283:ARG:CB	10:k5:284:PRO:HD2	2.10	0.80
2:A6:60:TYR:CB	2:A6:67:THR:HG23	2.09	0.80
8:I7:35:ARG:NH2	8:I7:144:ASP:HB3	1.96	0.80
8:g7:35:ARG:NH2	8:g7:144:ASP:HB3	1.96	0.80
1:j7:77:ARG:CZ	9:y7:63:ALA:HB3	2.12	0.80
1:Z7:10:ASN:ND2	9:x7:65:THR:O	2.14	0.80
2:X8:57:GLN:HE22	3:T9:32:LYS:CD	1.95	0.80
3:F9:36:LYS:HB3	3:F9:156:LEU:HD13	1.62	0.80
2:K9:15:GLN:CG	11:a9:393:ARG:NH1	2.42	0.80
11:aA:312:ASP:CA	11:aA:315:LEU:CA	2.58	0.80
11:aA:348:GLN:HE21	11:aA:348:GLN:N	1.78	0.80
4:M1:160:THR:CG2	4:M1:257:GLN:HB3	2.09	0.80
1:Z:158:SER:HB2	1:X5:11:ASN:ND2	1.92	0.80
3:LA:14:LEU:CG	11:aA:358:PRO:HB2	2.12	0.80
5:NA:54:LEU:HB2	12:TA:301:CYC:O2A	1.80	0.80
12:J3:202:CYC:CGA	11:a9:667:THR:CG2	2.59	0.80
2:E4:15:GLN:CG	11:aA:163:ASP:CB	2.59	0.80
2:I4:112:GLY:CA	11:aA:133:LEU:HD21	2.12	0.80
4:M4:104:ALA:O	2:P4:14:SER:HB2	1.80	0.80
4:M4:148:LYS:NZ	5:Z4:52:ARG:HD2	1.95	0.80
5:Z4:29:HIS:HE2	5:Z4:37:HIS:C	1.89	0.80
8:E5:17:TYR:HB3	1:F5:45:SER:HB3	1.62	0.80
8:a5:35:ARG:NH2	8:a5:144:ASP:HB3	1.96	0.80
6:M6:53:LEU:CD2	8:c7:80:LEU:HD23	2.06	0.80
6:M6:66:GLY:HA2	1:b7:125:ALA:HA	1.64	0.80
10:j5:988:ALA:CB	1:h7:106:GLU:OE2	2.27	0.80
10:k5:547:ARG:O	10:k5:547:ARG:HD2	1.82	0.80
1:B7:54:GLU:OE2	11:a9:563:PHE:HD2	1.62	0.80
8:K7:25:ARG:NE	8:U7:25:ARG:NH2	2.29	0.80
8:c7:104:ILE:HG21	8:c7:155:TYR:CE2	2.17	0.80
12:D8:202:CYC:O2A	4:M8:35:THR:CB	2.28	0.80
4:M9:58:TYR:CZ	11:a9:496:ARG:CZ	2.64	0.80
3:J9:108:ARG:HA	11:a9:517:ALA:HA	1.63	0.80
11:a9:312:ASP:HB3	11:a9:315:LEU:HD12	1.64	0.80
11:a9:585:GLU:CA	11:a9:588:VAL:O	2.30	0.80
12:LA:202:CYC:O2A	11:aA:404:TYR:CB	2.29	0.80
4:MA:185:ALA:HA	12:VA:201:CYC:CBA	2.11	0.80
5:NA:66:ARG:HH12	3:TA:111:ASN:ND2	1.79	0.80
2:QA:108:TYR:O	3:TA:75:PRO:HB2	1.82	0.80
2:QA:162:SER:O	2:WA:118:ARG:CD	2.29	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:619:GLU:CB	10:j5:620:PRO:CD	2.60	0.80
10:k5:549:LYS:N	10:k5:549:LYS:HD2	1.97	0.80
10:k5:1074:GLN:CD	1:l7:119:LEU:CD2	2.55	0.80
10:k5:1081:VAL:CG1	12:k5:1203:CYC:HMA2	2.11	0.80
8:W7:4:LEU:CD2	8:W7:26:ILE:HD13	2.12	0.80
8:m7:35:ARG:NH2	8:m7:144:ASP:HB3	1.97	0.80
3:Y8:80:ALA:O	3:Y8:84:ARG:HG3	1.80	0.80
11:a9:75:ALA:CB	11:a9:81:ASP:OD2	2.29	0.80
11:a9:245:ALA:CB	12:a9:901:CYC:C4B	2.60	0.80
11:a9:377:VAL:HG11	11:a9:390:ALA:CB	2.11	0.80
11:a9:403:THR:HG22	11:a9:536:THR:HG21	1.59	0.80
11:aA:636:ALA:O	11:aA:774:PHE:CD2	2.33	0.80
4:M4:197:ASP:CB	5:Z4:52:ARG:CG	2.58	0.80
2:N4:14:SER:HA	5:Z4:62:ARG:HD3	1.64	0.80
8:C5:29:PHE:HE1	8:C5:99:GLY:CA	1.93	0.80
8:G5:25:ARG:NH2	8:S5:25:ARG:HB3	1.95	0.80
8:e5:38:ARG:HG2	1:R5:143:PRO:HG2	1.64	0.80
3:F6:59:LEU:CD2	12:F6:201:CYC:H2C	2.11	0.80
8:E7:4:LEU:CD2	8:E7:26:ILE:HD13	2.12	0.80
8:i7:49:ARG:CZ	8:i7:140:LEU:HD21	2.11	0.80
8:c7:4:LEU:CD2	8:c7:26:ILE:HD13	2.12	0.80
8:c7:15:ALA:CA	1:d7:90:ARG:HH21	1.93	0.80
8:m7:9:VAL:HG22	1:n7:107:ARG:HH22	1.44	0.80
8:u7:90:ARG:CD	1:v7:18:TYR:CE1	2.60	0.80
3:U8:115:GLU:HB2	4:M8:74:LEU:HD12	0.81	0.80
3:L8:113:LEU:HD11	12:a9:901:CYC:CHB	2.10	0.80
4:M8:141:GLU:O	4:M8:145:LEU:N	2.13	0.80
3:O8:107:ASP:HB2	5:Z8:61:LYS:HZ2	1.43	0.80
3:H9:84:ARG:CA	11:a9:478:HIS:NE2	2.28	0.80
3:TA:24:LEU:HB3	2:X4:68:GLN:HG3	1.62	0.80
3:R1:111:ASN:HD21	5:N1:66:ARG:HH11	1.30	0.80
12:B4:202:CYC:HMA1	4:M4:58:TYR:HB2	1.62	0.80
4:M4:27:HIS:NE2	4:M4:34:ASP:CA	2.16	0.80
2:N4:115:GLU:OE1	5:Z4:33:GLY:HA3	1.82	0.80
1:P5:114:GLU:CD	10:k5:496:GLU:HB2	2.06	0.80
10:j5:148:TYR:O	10:j5:152:ARG:CG	2.28	0.80
10:j5:968:GLU:OE1	1:v7:10:ASN:ND2	2.15	0.80
10:j5:990:ARG:HH21	10:j5:1026:LYS:HZ1	1.27	0.80
10:j5:1049:PHE:CZ	10:j5:1065:HIS:HE1	1.99	0.80
10:k5:221:LYS:HE2	10:k5:221:LYS:HA	1.64	0.80
8:C7:44:THR:HG1	1:D7:18:TYR:HD2	1.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K7:25:ARG:NE	8:U7:25:ARG:HH22	1.80	0.80
8:g7:90:ARG:NH1	1:h7:16:GLY:HA2	1.96	0.80
8:q7:66:VAL:HG12	11:aA:65:LEU:HD22	1.64	0.80
8:s7:9:VAL:HG22	1:t7:107:ARG:HH22	1.44	0.80
8:u7:4:LEU:HD11	1:v7:30:TYR:CZ	2.17	0.80
8:u7:18:LEU:CD1	1:v7:97:LEU:CD1	2.58	0.80
3:L8:71:GLY:H	11:a9:82:GLN:HG2	0.98	0.80
4:M9:158:PHE:CA	3:V9:108:ARG:CD	2.56	0.80
4:MA:158:PHE:C	3:VA:108:ARG:CG	2.50	0.80
3:B3:84:ARG:HD2	11:a9:680:SER:OG	1.82	0.80
12:B4:202:CYC:CHA	4:M4:54:ALA:N	2.41	0.80
3:L3:119:ALA:CB	11:a9:813:PRO:HB2	1.92	0.80
4:M4:26:SER:CB	11:aA:228:GLU:CD	2.55	0.80
4:M4:94:TRP:CD2	3:Q4:88:ILE:HG12	2.16	0.80
4:M4:144:ARG:HH22	5:Z4:59:ARG:HH11	1.28	0.80
4:M4:228:SER:CB	2:X4:16:GLY:C	2.54	0.80
2:N4:63:PHE:CB	2:N4:66:LEU:CD1	2.55	0.80
5:Z4:41:GLN:HG2	12:Z4:301:CYC:HMB3	1.63	0.80
8:e5:29:PHE:HE1	8:e5:99:GLY:CA	1.93	0.80
8:Q5:4:LEU:CD2	8:Q5:26:ILE:HD13	2.12	0.80
10:j5:194:CYS:HB2	12:j5:1201:CYC:CAC	2.12	0.80
10:j5:1143:LEU:HD13	8:q7:103:PRO:HA	1.63	0.80
10:j5:1146:THR:HB	1:v7:77:ARG:CZ	2.12	0.80
10:k5:1043:GLU:CB	8:Y7:14:GLU:OE2	2.30	0.80
8:g7:37:LEU:HD13	1:h7:24:LEU:CD2	2.12	0.80
8:m7:29:PHE:HE1	8:m7:99:GLY:CA	1.93	0.80
8:m7:29:PHE:HZ	8:m7:98:ALA:O	1.62	0.80
1:v7:136:VAL:HG13	11:aA:342:ARG:NH1	1.96	0.80
2:X8:68:GLN:HE21	3:T9:24:LEU:HD22	1.44	0.80
3:J8:108:ARG:HH22	11:a9:171:ARG:HB3	1.46	0.80
4:M8:140:ARG:CD	4:M8:215:GLU:HA	2.12	0.80
12:M8:301:CYC:OC	3:Y8:72:ASN:HB3	1.81	0.80
12:M8:302:CYC:C1C	3:S8:78:ARG:HH11	1.94	0.80
12:M8:302:CYC:CAC	3:S8:78:ARG:HG2	2.12	0.80
2:I9:16:GLY:HA2	3:J9:91:ARG:HH11	1.43	0.80
11:aA:776:TYR:HB2	12:H1:201:CYC:HMA2	1.63	0.80
3:H1:108:ARG:O	12:H1:201:CYC:HBB1	1.80	0.80
4:MA:273:ILE:CD1	3:VA:75:PRO:CG	2.57	0.80
3:TA:25:ASN:OD1	2:X4:68:GLN:HG3	1.79	0.80
3:B4:86:MET:HG3	12:B4:202:CYC:HBC2	1.64	0.80
3:B4:108:ARG:HA	4:M4:61:ASN:C	2.06	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B4:113:LEU:HD13	4:M4:60:LYS:HE2	1.62	0.80
12:B4:202:CYC:HBB3	4:M4:61:ASN:HD22	1.43	0.80
5:N3:66:ARG:HB2	5:N3:66:ARG:HH11	1.46	0.80
3:U4:115:GLU:HG3	4:M4:71:PRO:HD2	1.64	0.80
12:M4:301:CYC:HMB2	3:Y4:89:ILE:CD1	2.11	0.80
12:O4:201:CYC:HMA2	5:Z4:53:LEU:CD1	2.10	0.80
1:B5:143:PRO:CG	8:W7:41:GLN:NE2	2.44	0.80
8:I5:35:ARG:NH2	8:I5:144:ASP:HB3	1.96	0.80
8:U5:84:ASP:OD1	6:M6:26:PHE:HZ	1.64	0.80
10:j5:549:LYS:HD2	10:j5:549:LYS:N	1.97	0.80
10:j5:1016:LEU:HD12	10:j5:1017:ARG:CA	2.10	0.80
10:k5:1043:GLU:CG	8:Y7:14:GLU:OE2	2.30	0.80
8:g7:33:GLY:HA3	1:h7:31:PHE:CZ	2.16	0.80
8:i7:104:ILE:HG21	8:i7:155:TYR:CE2	2.17	0.80
9:x7:4:TYR:HB2	9:x7:58:THR:HG1	1.46	0.80
3:F8:84:ARG:HD2	11:a9:139:ILE:CG2	2.00	0.80
4:M8:50:ASP:OD1	4:M8:50:ASP:N	2.15	0.80
4:M9:28:HIS:HA	11:a9:378:GLU:OE2	1.81	0.80
11:a9:776:TYR:O	11:a9:776:TYR:CD1	2.34	0.80
11:aA:585:GLU:CA	11:aA:588:VAL:O	2.30	0.80
3:HA:78:ARG:HG2	12:HA:202:CYC:HAD1	1.64	0.80
6:M2:62:ARG:HH22	1:h7:58:LYS:HA	1.44	0.80
4:M3:160:THR:CG2	4:M3:257:GLN:HB2	2.07	0.80
4:M3:188:LEU:O	4:M3:188:LEU:HD12	1.80	0.80
4:M4:188:LEU:O	4:M4:188:LEU:HD12	1.80	0.80
3:Q4:120:LEU:HD23	5:Z4:42:SER:CB	2.11	0.80
8:M5:90:ARG:HB2	1:N5:18:TYR:CE1	2.17	0.80
8:A5:49:ARG:HH21	8:A5:140:LEU:HD22	1.46	0.80
6:M6:267:THR:HG21	1:d7:161:SER:OXT	1.82	0.80
10:j5:186:LEU:O	10:j5:186:LEU:HD12	1.82	0.80
1:P7:76:ARG:N	8:Q7:110:ILE:O	2.15	0.80
1:J7:76:ARG:HD3	8:K7:110:ILE:HD11	1.62	0.80
8:g7:29:PHE:HE1	8:g7:99:GLY:CA	1.93	0.80
8:g7:56:ASP:OD1	11:aA:325:LEU:HD13	1.81	0.80
8:a7:35:ARG:NH2	8:a7:144:ASP:HB3	1.96	0.80
8:c7:95:GLY:C	8:c7:152:TYR:HE2	1.87	0.80
11:a9:714:ARG:HB2	11:a9:808:LEU:O	1.82	0.80
3:FA:125:ARG:HD2	3:VA:14:LEU:CD1	2.12	0.79
4:MA:50:ASP:N	4:MA:50:ASP:OD1	2.15	0.79
2:S1:16:GLY:CA	5:N1:31:TRP:HD1	1.89	0.79
12:D4:202:CYC:O2A	4:M4:35:THR:HB	1.78	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N3:70:ILE:HG21	3:R3:116:THR:HA	1.62	0.79
2:N4:111:ALA:CA	5:Z4:34:LEU:CD1	2.59	0.79
8:K5:23:LEU:HD13	8:U5:151:PHE:HE1	1.42	0.79
3:Y4:105:LEU:HD13	3:Y4:163:TYR:HB3	1.63	0.79
8:E5:4:LEU:CD2	8:E5:26:ILE:HD13	2.12	0.79
10:j5:1008:PHE:CD1	1:v7:87:TYR:CZ	2.67	0.79
10:j5:1147:TYR:CE1	11:aA:35:ARG:HB2	2.17	0.79
10:k5:186:LEU:O	10:k5:186:LEU:HD12	1.82	0.79
3:H6:84:ARG:O	3:H6:85:ASP:C	2.11	0.79
8:i7:25:ARG:HH12	8:s7:6:LYS:CB	1.93	0.79
8:a7:29:PHE:HZ	8:a7:98:ALA:O	1.62	0.79
8:a7:37:LEU:HD13	1:b7:24:LEU:CD2	2.12	0.79
12:b7:201:CYC:OB	9:x7:21:ARG:O	2.00	0.79
8:u7:4:LEU:CD2	8:u7:26:ILE:HD13	2.12	0.79
3:L8:71:GLY:HA3	11:a9:82:GLN:NE2	1.97	0.79
4:M8:214:GLY:HA3	5:Z8:28:HIS:ND1	1.97	0.79
3:F9:125:ARG:HD2	3:V9:14:LEU:CD1	2.12	0.79
11:aA:312:ASP:HB3	11:aA:315:LEU:HD12	1.64	0.79
11:aA:739:ASP:HA	3:L1:84:ARG:HD2	1.64	0.79
2:EA:2:LYS:HZ3	2:IA:17:ARG:HH12	0.81	0.79
3:JA:88:ILE:HD13	11:aA:512:TYR:CD2	2.17	0.79
2:G2:107:ASP:O	3:L2:77:ARG:NH2	2.15	0.79
3:F3:84:ARG:NH1	4:M3:35:THR:HB	1.97	0.79
3:Q4:104:VAL:CG2	3:Q4:105:LEU:CD1	2.59	0.79
8:K5:47:ARG:HD3	1:L5:18:TYR:CZ	2.17	0.79
8:U5:23:LEU:HD22	1:V5:38:VAL:HG13	1.64	0.79
10:j5:1119:LEU:CD1	1:t7:87:TYR:CZ	2.64	0.79
8:Q7:4:LEU:CD2	8:Q7:26:ILE:HD13	2.12	0.79
8:q7:120:GLN:HG3	1:v7:53:LYS:HZ1	1.46	0.79
8:u7:29:PHE:CZ	1:v7:31:PHE:HZ	1.99	0.79
2:N8:63:PHE:CB	2:N8:66:LEU:CD1	2.55	0.79
3:L9:48:ALA:HB2	2:K9:18:PHE:CE2	2.16	0.79
3:L9:51:ILE:CG2	3:L9:90:LEU:CD1	2.61	0.79
4:M9:274:VAL:CB	3:V9:77:ARG:HD3	2.12	0.79
5:N9:61:LYS:HZ3	12:T9:301:CYC:CBB	1.92	0.79
11:aA:308:LEU:CD2	11:aA:315:LEU:HD12	2.12	0.79
11:aA:312:ASP:OD1	11:aA:316:GLY:N	2.14	0.79
11:aA:403:THR:HG22	11:aA:536:THR:HG21	1.59	0.79
3:J3:116:THR:OG1	11:a9:797:ASP:HA	1.82	0.79
8:O5:35:ARG:NH2	8:O5:144:ASP:HB3	1.96	0.79
8:A5:118:SER:HB2	1:F5:82:ILE:HD11	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f5:27:LEU:HD13	10:j5:172:LEU:HD22	1.63	0.79
1:f5:34:GLY:HA3	10:j5:47:PHE:HD2	1.44	0.79
10:j5:386:ILE:CG2	10:j5:395:SER:C	2.52	0.79
10:k5:586:LEU:CD1	10:k5:607:LEU:CD2	2.60	0.79
10:k5:1118:THR:CG2	12:k5:1204:CYC:HMA2	2.12	0.79
8:U7:35:ARG:NH2	8:U7:144:ASP:HB3	1.97	0.79
3:L8:86:MET:CG	12:a9:901:CYC:CBC	2.57	0.79
4:M8:104:ALA:C	2:P8:14:SER:CB	2.54	0.79
12:N8:201:CYC:HMA1	12:N8:201:CYC:NB	1.96	0.79
3:Y8:102:ALA:HB1	3:Y8:106:GLU:H	1.44	0.79
3:H9:72:ASN:HD21	12:H9:202:CYC:HBD2	1.48	0.79
11:aA:377:VAL:HG11	11:aA:390:ALA:CB	2.11	0.79
11:aA:714:ARG:HB2	11:aA:808:LEU:O	1.82	0.79
3:H1:81:ALA:HB3	12:H1:201:CYC:CMD	2.10	0.79
3:FA:125:ARG:HD2	3:VA:14:LEU:HD13	1.64	0.79
5:NA:66:ARG:HB2	3:TA:111:ASN:HD22	1.45	0.79
2:SA:42:ARG:HD2	2:X4:69:PRO:C	2.06	0.79
12:F3:201:CYC:HMA3	4:M3:36:TYR:O	1.81	0.79
3:B4:85:ASP:CB	12:B4:202:CYC:CBC	2.61	0.79
4:M4:144:ARG:NH1	5:Z4:59:ARG:HH12	1.80	0.79
4:M4:227:GLN:O	3:Y4:91:ARG:NH2	2.15	0.79
8:K5:4:LEU:CD2	8:K5:26:ILE:HD13	2.12	0.79
1:N5:110:ASN:HD21	10:k5:692:LEU:C	1.89	0.79
8:C5:98:ALA:HA	1:D5:5:ILE:HG21	1.65	0.79
10:j5:275:THR:HG23	10:j5:286:VAL:HG13	1.64	0.79
10:j5:978:LEU:HD11	1:v7:107:ARG:NH2	1.98	0.79
10:k5:1023:SER:CB	12:k5:1202:CYC:HBA1	2.12	0.79
8:O7:35:ARG:NH2	8:O7:144:ASP:HB3	1.97	0.79
8:Q7:13:ALA:HA	9:z7:46:LYS:CD	2.13	0.79
8:C7:29:PHE:CE1	8:C7:98:ALA:C	2.61	0.79
1:J7:75:THR:O	8:K7:111:GLY:HA3	1.82	0.79
8:g7:10:ASN:HD22	8:u7:10:ASN:HD21	1.30	0.79
8:g7:52:LYS:CD	11:aA:321:ALA:CB	2.50	0.79
1:V7:76:ARG:N	8:W7:110:ILE:O	2.15	0.79
8:c7:16:ARG:CA	1:d7:90:ARG:HD2	2.05	0.79
2:E8:15:GLN:CG	11:a9:163:ASP:CB	2.60	0.79
4:M8:226:SER:OG	3:Y8:88:ILE:HG12	1.82	0.79
12:M8:301:CYC:HBC3	3:Y8:127:VAL:HA	1.65	0.79
3:Q8:77:ARG:H	5:Z8:34:LEU:HD13	1.47	0.79
3:Q8:87:GLU:O	3:Q8:91:ARG:HG2	1.81	0.79
5:N1:36:THR:HG1	12:T1:301:CYC:C4B	1.94	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:127:VAL:CG1	1:X5:15:GLN:HG2	2.08	0.79
1:Z:158:SER:CB	1:X5:11:ASN:HD22	1.96	0.79
4:MA:28:HIS:HA	11:aA:378:GLU:OE2	1.81	0.79
4:MA:274:VAL:HG12	3:VA:77:ARG:HE	1.47	0.79
4:M4:232:VAL:HA	12:M4:301:CYC:C4B	2.12	0.79
2:P4:19:LEU:HD11	3:Q4:95:TYR:CE1	2.18	0.79
1:d5:124:ALA:HB1	10:j5:699:SER:HB3	1.63	0.79
8:U5:75:GLU:CG	6:M6:36:ILE:HG13	2.06	0.79
8:A7:86:ASP:HB2	11:aA:579:PHE:HZ	1.48	0.79
10:k5:1008:PHE:HZ	1:p7:83:ARG:NH1	1.75	0.79
10:k5:1146:THR:CA	1:p7:77:ARG:HH22	1.94	0.79
8:c7:25:ARG:HH22	8:m7:6:LYS:CE	1.96	0.79
8:o7:4:LEU:HD11	1:p7:30:TYR:CZ	2.17	0.79
11:a9:290:ASP:O	11:a9:291:TYR:CG	2.36	0.79
11:a9:531:ASP:OD1	11:a9:531:ASP:N	2.13	0.79
4:M1:98:ASP:OD1	3:T1:1:MET:N	2.16	0.79
5:N1:37:HIS:O	12:T1:301:CYC:HMA1	1.82	0.79
3:HA:84:ARG:CA	11:aA:478:HIS:NE2	2.28	0.79
4:MA:158:PHE:CZ	2:UA:10:ALA:HB1	2.18	0.79
2:QA:116:VAL:HG13	3:TA:79:MET:CG	2.11	0.79
3:TA:32:LYS:HD3	2:X4:57:GLN:CD	2.08	0.79
3:TA:32:LYS:CD	2:X4:57:GLN:HE22	1.95	0.79
3:B3:108:ARG:C	4:M3:6:THR:HG22	2.08	0.79
3:D4:150:ARG:CZ	2:C1:140:SER:O	2.31	0.79
5:N3:22:LEU:HD13	5:N3:26:LEU:HD22	1.63	0.79
3:X3:80:ALA:O	3:X3:84:ARG:HG3	1.81	0.79
3:U4:115:GLU:OE1	4:M4:74:LEU:HD13	1.82	0.79
1:B5:107:ARG:NE	9:z5:21:ARG:HD3	1.96	0.79
8:E5:47:ARG:HD3	1:F5:18:TYR:CZ	2.17	0.79
1:J5:87:TYR:HE2	9:i5:38:PHE:CE2	2.00	0.79
8:e5:35:ARG:NH2	8:e5:144:ASP:HB3	1.96	0.79
10:j5:388:ARG:CD	10:j5:393:MET:H	1.93	0.79
10:j5:586:LEU:CD1	10:j5:607:LEU:CD2	2.60	0.79
10:j5:1064:LYS:HA	10:j5:1069:ARG:H	1.47	0.79
10:k5:1064:LYS:O	10:k5:1068:GLY:N	2.15	0.79
10:k5:1067:LEU:CD1	10:k5:1101:GLU:CG	2.61	0.79
2:A6:63:PHE:CB	2:A6:66:LEU:CD1	2.55	0.79
8:i7:39:ILE:HD11	8:i7:148:GLU:HG2	1.60	0.79
8:c7:15:ALA:HA	1:d7:90:ARG:HH22	1.40	0.79
8:s7:29:PHE:CE1	8:s7:98:ALA:C	2.61	0.79
3:U8:114:LYS:HZ3	4:M8:13:LYS:CD	1.88	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F8:107:ASP:CA	4:M8:8:SER:N	2.43	0.79
4:M9:158:PHE:CZ	2:U9:10:ALA:HB1	2.18	0.79
3:B9:26:GLN:O	3:B9:30:LEU:HD12	1.80	0.79
3:H9:116:THR:CG2	12:H9:202:CYC:HMA3	2.10	0.79
12:H9:202:CYC:NB	11:a9:474:PHE:CE2	2.51	0.79
11:aA:621:THR:HG21	3:J1:14:LEU:HD13	0.81	0.79
3:HA:59:LEU:CD2	12:HA:202:CYC:HBC2	2.12	0.79
2:IA:16:GLY:HA3	11:aA:514:VAL:HG11	1.65	0.79
3:JA:88:ILE:CD1	11:aA:512:TYR:CD1	2.62	0.79
12:JA:202:CYC:HBA2	11:aA:511:LYS:CA	2.01	0.79
5:NA:66:ARG:CB	3:TA:111:ASN:ND2	2.45	0.79
2:O1:63:PHE:CB	2:O1:66:LEU:CD1	2.56	0.79
3:B1:84:ARG:HD2	11:aA:680:SER:OG	1.81	0.79
4:M4:50:ASP:OD1	4:M4:50:ASP:N	2.15	0.79
8:I5:98:ALA:HA	1:J5:5:ILE:HG21	1.65	0.79
8:S5:110:ILE:CD1	10:j5:533:LEU:CD1	2.60	0.79
6:M6:104:ARG:CZ	2:G6:16:GLY:HA3	2.13	0.79
8:k7:66:VAL:HG11	11:a9:61:TYR:CE1	2.17	0.79
4:M8:97:ALA:HB1	4:M8:101:ASP:HB3	1.64	0.79
3:F9:125:ARG:HD2	3:V9:14:LEU:HD13	1.64	0.79
3:J9:88:ILE:HD13	11:a9:512:TYR:CD2	2.17	0.79
11:aA:643:LEU:HD11	11:aA:689:VAL:CG2	2.11	0.79
1:Z:73:TYR:CZ	10:j5:162:TRP:CZ2	2.70	0.79
3:O4:115:GLU:HB3	5:Z4:70:ILE:O	1.81	0.79
1:N5:14:VAL:O	1:R5:68:PRO:HB3	1.81	0.79
3:Y4:85:ASP:HA	3:Y4:88:ILE:HG12	1.64	0.79
8:C5:35:ARG:NH2	8:C5:144:ASP:HB3	1.96	0.79
1:f5:5:ILE:CD1	10:j5:46:PHE:HZ	1.95	0.79
10:k5:246:VAL:HG22	10:k5:257:THR:HG22	1.65	0.79
10:k5:971:VAL:CG1	1:n7:76:ARG:NH1	2.46	0.79
10:k5:1019:SER:OG	1:Z7:87:TYR:HE1	1.65	0.79
1:V7:75:THR:O	8:W7:111:GLY:HA3	1.82	0.79
3:B8:119:ALA:HB3	4:M8:52:LEU:HD11	1.64	0.79
3:F8:113:LEU:HA	4:M8:5:THR:HG23	1.63	0.79
3:Q8:117:TYR:HA	3:Q8:120:LEU:HD21	1.64	0.79
3:Q8:120:LEU:HD11	3:Q8:122:THR:OG1	1.69	0.79
11:a9:312:ASP:OD1	11:a9:316:GLY:N	2.14	0.79
11:aA:106:LEU:O	11:aA:106:LEU:HD23	1.83	0.79
11:aA:804:ARG:HH21	3:J1:121:GLY:HA2	1.47	0.79
3:JA:111:ASN:C	11:aA:518:ALA:CB	2.55	0.79
12:F3:201:CYC:HAA1	4:M3:36:TYR:CZ	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Z3:202:CYC:OB	2:O3:33:ARG:CZ	2.31	0.79
5:N3:66:ARG:HH11	3:R3:111:ASN:HD21	1.30	0.79
3:L4:88:ILE:HD11	11:aA:239:TYR:CD2	2.17	0.79
4:M4:100:SER:CA	3:Q4:1:MET:CE	2.60	0.79
4:M4:225:LYS:HE3	3:Y4:81:ALA:CB	2.09	0.79
4:M4:273:ILE:CG2	2:X4:107:ASP:HB3	2.12	0.79
2:N4:112:GLY:HA2	5:Z4:34:LEU:H	1.43	0.79
1:d5:161:SER:HB2	10:j5:695:GLY:C	2.08	0.79
8:U5:29:PHE:CE1	8:U5:98:ALA:C	2.61	0.79
1:Z5:127:VAL:HG12	10:k5:698:GLY:HA3	1.64	0.79
9:i5:23:LEU:C	9:i5:25:ASN:N	2.30	0.79
10:k5:990:ARG:HE	10:k5:1026:LYS:HZ1	1.30	0.79
10:k5:1018:LEU:HD12	10:k5:1035:PHE:HZ	1.36	0.79
12:h7:201:CYC:CBB	9:y7:21:ARG:NE	2.46	0.79
8:U7:29:PHE:HZ	8:U7:98:ALA:O	1.62	0.79
3:B8:120:LEU:HD11	4:M8:53:LEU:N	1.98	0.79
3:L8:120:LEU:HD11	12:a9:901:CYC:CAA	2.12	0.79
3:O8:119:ALA:HB1	5:Z8:72:GLU:HG3	1.63	0.79
12:F1:201:CYC:HMA3	4:M1:36:TYR:O	1.81	0.79
2:O9:25:GLN:HG2	2:Y9:33:ARG:HG2	1.65	0.79
3:H9:59:LEU:CD2	12:H9:202:CYC:HBC2	2.12	0.79
11:a9:350:LEU:HD12	11:a9:350:LEU:N	1.97	0.79
11:aA:55:ASP:HB3	11:aA:612:TYR:HB2	0.79	0.79
11:aA:632:ILE:HG21	11:aA:634:ALA:CB	2.13	0.79
5:N1:66:ARG:HH11	5:N1:66:ARG:HB2	1.46	0.79
3:JA:108:ARG:O	11:aA:517:ALA:CA	2.30	0.79
12:J3:202:CYC:CMA	11:a9:666:ASN:HB2	2.11	0.79
2:K3:14:SER:CB	11:a9:746:TYR:CB	2.56	0.79
5:N3:37:HIS:O	12:T3:301:CYC:HMA1	1.82	0.79
12:B5:201:CYC:HBA1	9:z5:26:THR:CG2	2.11	0.79
12:B5:201:CYC:CAA	9:z5:26:THR:HG21	2.12	0.79
8:G5:122:PRO:HD2	12:G5:201:CYC:C1C	2.13	0.79
8:I5:25:ARG:HD3	8:I5:25:ARG:O	1.81	0.79
8:Q5:12:ASP:N	1:R5:94:TYR:CE2	2.38	0.79
8:S5:90:ARG:HB2	1:T5:18:TYR:CE1	2.17	0.79
8:a5:29:PHE:CE1	8:a5:98:ALA:C	2.61	0.79
10:j5:1005:LEU:HD13	10:j5:1016:LEU:CD2	2.13	0.79
10:j5:1064:LYS:O	10:j5:1068:GLY:N	2.15	0.79
10:k5:825:ASN:HB2	12:B7:201:CYC:HBB2	1.64	0.79
10:k5:1013:PRO:HB2	8:k7:114:GLU:OE2	1.80	0.79
10:k5:1064:LYS:HA	10:k5:1069:ARG:H	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O7:29:PHE:CE1	8:O7:98:ALA:C	2.61	0.79
8:C7:35:ARG:NH2	8:C7:144:ASP:HB3	1.97	0.79
8:K7:4:LEU:CD2	8:K7:26:ILE:HD13	2.12	0.79
8:i7:47:ARG:NE	1:j7:18:TYR:CE2	2.51	0.79
8:c7:11:ALA:CB	1:d7:94:TYR:HE1	1.93	0.79
8:o7:17:TYR:CD2	1:p7:93:THR:CG2	2.64	0.79
2:X8:33:ARG:HG2	2:N8:25:GLN:HG2	1.65	0.79
4:M9:184:ILE:HG22	12:V9:201:CYC:CBA	2.13	0.79
5:Z8:41:GLN:HG2	12:Z8:301:CYC:HBB3	1.60	0.79
11:a9:55:ASP:HB3	11:a9:612:TYR:HB2	0.79	0.79
11:a9:106:LEU:O	11:a9:106:LEU:HD23	1.83	0.79
3:HA:120:LEU:HD13	12:HA:202:CYC:C2A	2.13	0.78
3:H3:78:ARG:HH22	11:a9:623:ASP:HB3	1.33	0.78
3:B3:111:ASN:ND2	4:M3:7:SER:OG	2.16	0.78
3:H4:80:ALA:O	3:H4:84:ARG:HG3	1.83	0.78
3:J4:108:ARG:HH22	11:aA:171:ARG:HB3	1.47	0.78
4:M4:134:ASN:OD1	5:Z4:1:MET:CE	2.30	0.78
12:M4:301:CYC:CAC	3:Y4:82:CYS:CB	2.60	0.78
2:N4:14:SER:CA	5:Z4:62:ARG:HD3	2.13	0.78
8:e5:29:PHE:CE1	8:e5:98:ALA:C	2.61	0.78
10:k5:929:PRO:HG3	1:D7:147:LYS:CE	2.13	0.78
8:i7:47:ARG:CG	1:j7:18:TYR:OH	2.31	0.78
3:H8:84:ARG:HG2	11:a9:131:TYR:CZ	2.16	0.78
3:Q8:72:ASN:CG	12:Z8:301:CYC:CMD	2.55	0.78
3:Q8:72:ASN:O	12:Z8:301:CYC:CMD	2.30	0.78
2:O9:33:ARG:CZ	12:Z9:201:CYC:OB	2.31	0.78
5:Z8:66:ARG:HB2	5:Z8:66:ARG:HH11	1.46	0.78
2:I9:9:ILE:CD1	3:J9:99:ALA:HB2	2.13	0.78
2:I9:37:SER:HB3	2:I9:97:LEU:HD13	1.64	0.78
11:a9:585:GLU:N	11:a9:585:GLU:OE1	2.17	0.78
5:N1:24:PRO:HG2	5:N1:35:ASP:O	1.83	0.78
5:NA:54:LEU:CB	12:TA:301:CYC:O2A	2.31	0.78
3:P1:115:GLU:HB2	5:N1:3:VAL:HG11	1.63	0.78
2:A3:63:PHE:CB	2:A3:66:LEU:CD1	2.56	0.78
5:N3:3:VAL:HG11	3:P3:115:GLU:HB2	1.63	0.78
3:B1:85:ASP:OD2	12:B1:202:CYC:ND	2.11	0.78
12:L4:202:CYC:HAB1	11:aA:239:TYR:CE1	2.18	0.78
4:M4:197:ASP:CG	5:Z4:52:ARG:HG3	2.08	0.78
8:M5:25:ARG:HE	8:A5:25:ARG:NH2	1.81	0.78
8:C5:27:LYS:C	8:C5:29:PHE:N	2.40	0.78
8:I5:27:LYS:C	8:I5:29:PHE:N	2.40	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d5:155:TYR:CZ	1:T5:113:LYS:NZ	2.52	0.78
8:U5:59:PHE:HB3	6:M6:39:ARG:CD	2.12	0.78
10:j5:221:LYS:HE2	10:j5:221:LYS:HA	1.64	0.78
10:j5:990:ARG:NE	10:j5:1026:LYS:HZ1	1.81	0.78
10:k5:931:VAL:HG23	1:D7:30:TYR:HA	1.65	0.78
8:i7:4:LEU:CD2	8:i7:26:ILE:HD13	2.12	0.78
8:i7:95:GLY:C	8:i7:152:TYR:HE2	1.87	0.78
2:A8:25:GLN:HG2	2:K8:33:ARG:HG2	1.66	0.78
3:B8:107:ASP:O	4:M8:61:ASN:CA	2.32	0.78
12:B8:202:CYC:CBB	4:M8:61:ASN:ND2	2.44	0.78
2:X8:57:GLN:HE22	3:T9:32:LYS:HD3	1.48	0.78
3:L8:82:CYS:HA	12:a9:901:CYC:CHD	2.13	0.78
3:O8:104:VAL:CA	5:Z8:61:LYS:HZ1	1.93	0.78
4:M9:159:CYS:HA	3:V9:108:ARG:HG3	1.61	0.78
5:N9:66:ARG:HB2	3:T9:111:ASN:HD22	1.45	0.78
5:N9:66:ARG:HH12	3:T9:111:ASN:ND2	1.79	0.78
3:B9:107:ASP:CA	11:a9:382:ASN:ND2	2.45	0.78
2:I9:16:GLY:HA3	11:a9:514:VAL:HG11	1.64	0.78
11:aA:742:GLN:OE1	3:L1:88:ILE:CG1	2.30	0.78
2:AA:63:PHE:CB	2:AA:66:LEU:CD1	2.56	0.78
3:HA:125:ARG:HE	8:S7:41:GLN:NE2	1.80	0.78
3:J3:119:ALA:O	11:a9:803:ASN:CB	2.30	0.78
5:N3:36:THR:HG1	12:T3:301:CYC:C4B	1.96	0.78
5:Z4:38:GLU:O	12:Z4:301:CYC:HMB3	1.84	0.78
8:C5:29:PHE:CE1	8:C5:98:ALA:C	2.61	0.78
8:U5:76:LYS:O	8:U5:78:THR:N	2.17	0.78
10:j5:246:VAL:HG22	10:j5:257:THR:HG22	1.65	0.78
10:j5:1118:THR:HG21	1:t7:83:ARG:NH1	1.97	0.78
10:k5:56:ILE:CG2	10:k5:57:VAL:N	2.46	0.78
10:k5:778:LYS:CE	12:F7:201:CYC:HBB2	2.13	0.78
3:D1:68:ARG:NH2	3:X1:68:ARG:CZ	2.44	0.78
1:P7:75:THR:O	8:Q7:111:GLY:HA3	1.82	0.78
8:S7:64:ASP:HA	8:S7:67:SER:OG	1.84	0.78
8:g7:29:PHE:CE1	8:g7:98:ALA:C	2.61	0.78
3:O8:107:ASP:HB2	5:Z8:61:LYS:HZ3	1.45	0.78
3:L9:120:LEU:CD2	11:a9:538:ARG:HB2	2.13	0.78
3:F9:36:LYS:HB3	3:F9:156:LEU:CD1	2.13	0.78
11:a9:338:VAL:C	11:a9:340:PRO:HD3	2.08	0.78
1:Z:18:TYR:CE2	8:e5:90:ARG:HA	2.18	0.78
1:Z:127:VAL:CG1	1:X5:15:GLN:OE1	2.32	0.78
4:MA:192:GLN:NE2	3:VA:87:GLU:OE1	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QA:33:ARG:CB	2:UA:25:GLN:HG2	2.12	0.78
2:SA:42:ARG:HD3	2:X4:69:PRO:O	1.83	0.78
5:N3:24:PRO:HG2	5:N3:35:ASP:O	1.83	0.78
2:O3:25:GLN:HG2	2:Y3:33:ARG:HG2	1.65	0.78
12:H4:201:CYC:CBB	11:aA:259:ALA:HA	2.13	0.78
2:N4:25:GLN:HG2	2:X4:33:ARG:HG2	1.65	0.78
3:Q4:85:ASP:HB2	12:Z4:301:CYC:HBC3	1.65	0.78
8:U5:83:ARG:CA	6:M6:26:PHE:HE1	1.96	0.78
10:k5:748:ARG:HE	8:E7:106:GLU:CD	1.91	0.78
8:i7:42:THR:HG22	8:i7:141:LEU:CD2	2.13	0.78
8:c7:101:VAL:CG1	8:c7:155:TYR:CZ	2.67	0.78
1:f7:67:ARG:HH12	11:aA:307:ARG:HG2	1.48	0.78
3:F1:84:ARG:NH1	4:M1:35:THR:HB	1.97	0.78
12:L9:201:CYC:OB	2:A9:33:ARG:CZ	2.32	0.78
3:F9:143:ASN:HA	12:F9:303:CYC:HMC3	1.65	0.78
3:J9:111:ASN:C	11:a9:518:ALA:CB	2.55	0.78
11:aA:797:ASP:HA	3:J1:116:THR:OG1	1.82	0.78
4:M1:274:VAL:HG13	3:Z1:77:ARG:HG3	1.65	0.78
5:N1:22:LEU:HD13	5:N1:26:LEU:HD22	1.63	0.78
1:A:73:TYR:OH	10:k5:162:TRP:NE1	2.17	0.78
3:HA:117:TYR:CE1	12:HA:202:CYC:CHB	2.67	0.78
2:IA:9:ILE:CD1	3:JA:99:ALA:HB2	2.13	0.78
3:JA:114:LYS:CG	8:S7:60:GLN:HE22	1.97	0.78
2:KA:18:PHE:CZ	3:LA:48:ALA:HB2	2.18	0.78
5:NA:24:PRO:HG2	5:NA:35:ASP:O	1.83	0.78
2:N4:112:GLY:HA2	5:Z4:33:GLY:HA2	1.66	0.78
8:O5:29:PHE:CE1	8:O5:98:ALA:C	2.61	0.78
1:H5:14:VAL:HG11	10:j5:554:ASN:C	2.09	0.78
8:S5:107:ILE:HG12	1:T5:13:ASP:OD2	1.83	0.78
1:Z5:161:SER:CB	10:k5:695:GLY:C	2.55	0.78
10:j5:547:ARG:O	10:j5:547:ARG:HD2	1.82	0.78
10:k5:631:HIS:CD2	10:k5:664:MET:HE3	2.12	0.78
10:k5:931:VAL:HG13	1:D7:29:ALA:HB3	1.65	0.78
1:d7:87:TYR:HE2	9:x7:38:PHE:CE1	2.01	0.78
1:d7:87:TYR:HE2	9:x7:38:PHE:CZ	2.02	0.78
3:L8:71:GLY:CA	11:a9:82:GLN:HE21	1.96	0.78
4:M8:87:ILE:CD1	3:Y8:77:ARG:HG2	2.13	0.78
3:D9:14:LEU:HD11	3:Z9:125:ARG:HD2	1.65	0.78
12:Y9:201:CYC:HC	12:Y9:201:CYC:CMD	1.97	0.78
11:aA:287:ALA:C	11:aA:289:THR:N	2.32	0.78
11:aA:585:GLU:N	11:aA:585:GLU:OE1	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FA:36:LYS:HB2	3:FA:156:LEU:HD11	1.64	0.78
4:MA:184:ILE:HG22	12:VA:201:CYC:CBA	2.13	0.78
12:C3:201:CYC:HC	12:C3:201:CYC:CMD	1.97	0.78
12:Q3:201:CYC:HC	12:Q3:201:CYC:CMD	1.97	0.78
12:M4:301:CYC:HAC2	3:Y4:82:CYS:CB	2.13	0.78
8:C5:25:ARG:HD3	8:C5:25:ARG:O	1.82	0.78
12:C1:201:CYC:HC	12:C1:201:CYC:CMD	1.97	0.78
10:j5:741:GLN:C	1:J7:77:ARG:NH2	2.40	0.78
10:j5:951:MET:HE1	10:j5:955:LEU:CG	2.14	0.78
10:k5:1005:LEU:HD13	10:k5:1016:LEU:CD2	2.13	0.78
10:k5:1020:GLU:CG	1:Z7:87:TYR:CZ	2.66	0.78
8:O7:12:ASP:OD1	1:P7:91:TYR:OH	2.02	0.78
1:D7:75:THR:O	8:E7:111:GLY:HA3	1.82	0.78
8:G7:64:ASP:HA	8:G7:67:SER:OG	1.84	0.78
8:e7:64:ASP:HA	8:e7:67:SER:OG	1.83	0.78
8:q7:64:ASP:HA	8:q7:67:SER:OG	1.84	0.78
3:U8:114:LYS:CE	4:M8:13:LYS:HZ2	1.94	0.78
12:F1:201:CYC:HAA1	4:M1:36:TYR:CZ	2.18	0.78
5:N9:24:PRO:HG2	5:N9:35:ASP:O	1.83	0.78
5:N9:54:LEU:CB	12:T9:301:CYC:O2A	2.31	0.78
5:Z8:37:HIS:CD2	12:Z8:301:CYC:NB	2.51	0.78
2:E9:2:LYS:HZ1	2:I9:17:ARG:NH1	1.68	0.78
11:a9:348:GLN:HE21	11:a9:348:GLN:N	1.78	0.78
11:aA:350:LEU:HD12	11:aA:350:LEU:N	1.97	0.78
11:aA:621:THR:CG2	3:J1:14:LEU:CG	2.38	0.78
4:M1:1:MET:HB3	4:M1:44:SER:O	1.84	0.78
1:Z:75:THR:CG2	10:j5:182:ASN:O	2.32	0.78
3:HA:111:ASN:O	11:aA:447:SER:HB3	1.83	0.78
2:E3:13:ASP:OD1	11:a9:644:ARG:NH1	2.17	0.78
3:L3:1:MET:HE2	3:L3:108:ARG:NH1	1.98	0.78
4:M3:50:ASP:OD1	4:M3:50:ASP:N	2.15	0.78
2:U3:46:SER:OG	2:Q9:74:TYR:CE1	2.37	0.78
3:B1:108:ARG:C	4:M1:6:THR:HG22	2.08	0.78
3:U4:112:GLY:CA	4:M4:74:LEU:CD2	2.33	0.78
3:F4:108:ARG:NH1	4:M4:9:GLN:HE21	1.80	0.78
4:M4:27:HIS:O	11:aA:227:GLY:CA	2.30	0.78
4:M4:215:GLU:N	5:Z4:28:HIS:N	2.32	0.78
8:M5:107:ILE:HG12	1:N5:13:ASP:OD2	1.83	0.78
8:A5:122:PRO:HD2	12:A5:201:CYC:C1C	2.13	0.78
6:M6:50:LEU:HD22	8:c7:83:ARG:HB2	1.66	0.78
6:M6:104:ARG:CZ	2:G6:16:GLY:CA	2.61	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:136:VAL:HB	10:j5:137:PRO:CD	2.14	0.78
10:j5:978:LEU:HD22	1:v7:107:ARG:NH2	1.96	0.78
10:k5:1125:ARG:NH2	1:n7:114:GLU:CB	2.46	0.78
8:i7:20:PRO:CG	8:s7:155:TYR:CE2	2.67	0.78
8:i7:124:PRO:O	8:i7:125:ALA:C	2.13	0.78
8:c7:11:ALA:CB	1:d7:94:TYR:CZ	2.67	0.78
3:B8:120:LEU:HD21	4:M8:52:LEU:HB3	1.64	0.78
8:u7:17:TYR:HD2	1:v7:93:THR:CG2	1.96	0.78
2:X8:57:GLN:CD	3:T9:32:LYS:HD3	2.08	0.78
3:F8:107:ASP:CB	4:M8:8:SER:C	2.25	0.78
3:H8:111:ASN:CG	11:a9:291:TYR:CZ	2.58	0.78
3:Q8:84:ARG:CG	5:Z8:31:TRP:CD1	2.64	0.78
3:L9:14:LEU:CG	11:a9:358:PRO:HB2	2.10	0.78
5:N9:66:ARG:CB	3:T9:111:ASN:ND2	2.45	0.78
11:a9:56:ILE:HD11	11:a9:612:TYR:HE2	1.40	0.78
3:BA:107:ASP:CA	11:aA:382:ASN:ND2	2.46	0.78
2:K2:33:ARG:HG2	2:A2:25:GLN:HG2	1.66	0.78
3:L2:75:PRO:HG2	3:L2:78:ARG:N	1.99	0.78
6:M2:50:LEU:HD23	8:i7:79:ALA:HB1	1.66	0.78
6:M2:62:ARG:NH2	1:h7:57:ALA:O	2.16	0.78
12:C4:201:CYC:HC	12:C4:201:CYC:CMD	1.97	0.78
12:Y3:201:CYC:HC	12:Y3:201:CYC:CMD	1.97	0.78
12:V4:201:CYC:HC	12:V4:201:CYC:CMD	1.97	0.78
3:O4:104:VAL:HG23	5:Z4:61:LYS:HE2	1.66	0.78
3:Q4:7:LYS:HE3	3:Q4:101:ASP:OD1	1.83	0.78
8:S5:64:ASP:HA	8:S5:67:SER:OG	1.83	0.78
12:T5:201:CYC:OB	10:j5:482:GLN:HB2	1.83	0.78
10:k5:1023:SER:HB3	12:k5:1202:CYC:HBA1	1.66	0.78
10:k5:1052:PRO:HA	1:l7:106:GLU:HG2	1.66	0.78
10:k5:1147:TYR:CD2	11:a9:39:PRO:HB3	2.19	0.78
10:k5:1150:TYR:HE2	1:p7:69:GLY:O	1.44	0.78
3:F6:126:SER:HB3	12:F6:201:CYC:HMC1	1.64	0.78
1:R7:49:THR:CG2	8:C7:161:GLN:CG	2.62	0.78
8:i7:101:VAL:CG1	8:i7:155:TYR:CZ	2.67	0.78
1:T7:106:GLU:HG2	9:w7:58:THR:HG23	1.65	0.78
8:Y7:64:ASP:HA	8:Y7:67:SER:OG	1.83	0.78
12:E8:201:CYC:HC	12:E8:201:CYC:CMD	1.97	0.78
4:M8:1:MET:HB3	4:M8:44:SER:O	1.84	0.78
4:M8:215:GLU:OE1	5:Z8:27:ALA:HB1	1.83	0.78
12:E9:201:CYC:HC	12:E9:201:CYC:CMD	1.97	0.78
11:a9:89:ALA:HA	11:a9:92:LYS:NZ	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:615:ARG:HB3	11:aA:615:ARG:HH11	1.48	0.78
3:HA:84:ARG:NH2	11:aA:474:PHE:CD2	2.52	0.78
3:HA:113:LEU:CD2	12:HA:202:CYC:CMB	2.59	0.78
2:QA:33:ARG:CZ	12:VA:202:CYC:CBB	2.61	0.78
2:QA:116:VAL:HG22	3:TA:80:ALA:N	1.98	0.78
12:UA:201:CYC:HC	12:UA:201:CYC:CMD	1.97	0.78
2:A1:33:ARG:CZ	12:L1:201:CYC:OB	2.32	0.78
2:G2:16:GLY:HA3	6:M2:104:ARG:CZ	2.13	0.78
6:M2:28:ASN:HA	8:O5:80:LEU:HD23	1.64	0.78
3:U4:112:GLY:HA2	4:M4:74:LEU:HD21	0.78	0.78
3:F4:109:CYS:O	4:M4:5:THR:CG2	2.31	0.78
3:O4:107:ASP:CG	5:Z4:66:ARG:CB	2.57	0.78
3:O4:107:ASP:HA	3:O4:111:ASN:ND2	1.99	0.78
12:P4:201:CYC:HC	12:P4:201:CYC:CMD	1.97	0.78
3:Q4:59:LEU:HD22	3:Q4:130:ALA:HB2	1.66	0.78
8:M5:90:ARG:HD2	1:N5:17:LYS:C	2.09	0.78
8:I5:29:PHE:CE1	8:I5:98:ALA:C	2.61	0.78
9:z5:22:GLU:O	9:z5:25:ASN:N	2.16	0.78
10:k5:619:GLU:CB	10:k5:620:PRO:CD	2.59	0.78
10:k5:743:VAL:CA	12:D7:201:CYC:O2D	2.32	0.78
3:F8:84:ARG:HD3	11:a9:139:ILE:HG21	1.65	0.78
3:F8:115:GLU:CG	4:M8:3:VAL:HG11	2.04	0.78
3:O8:95:TYR:HD2	3:O8:108:ARG:NH2	1.75	0.78
3:L9:48:ALA:HB1	2:K9:18:PHE:CZ	2.19	0.78
4:M9:192:GLN:NE2	3:V9:87:GLU:OE1	2.17	0.78
12:C9:201:CYC:HC	12:C9:201:CYC:CMD	1.97	0.78
3:H9:111:ASN:O	11:a9:447:SER:HB3	1.83	0.78
11:aA:56:ILE:HD11	11:aA:612:TYR:HE2	1.40	0.78
11:aA:742:GLN:CD	3:L1:88:ILE:HG12	2.04	0.78
3:F2:78:ARG:CD	12:F2:201:CYC:CGD	2.56	0.78
12:GA:201:CYC:HC	12:GA:201:CYC:CMD	1.97	0.78
2:IA:37:SER:HB3	2:IA:97:LEU:HD13	1.64	0.78
3:LA:51:ILE:CG2	3:LA:90:LEU:CD1	2.61	0.78
4:MA:1:MET:HB3	4:MA:44:SER:O	1.84	0.78
2:SA:39:GLU:HA	2:X4:69:PRO:HB3	1.62	0.78
12:K3:201:CYC:HC	12:K3:201:CYC:CMD	1.97	0.78
12:K2:201:CYC:HC	12:K2:201:CYC:CMD	1.97	0.78
12:S3:201:CYC:HC	12:S3:201:CYC:CMD	1.97	0.78
3:F4:84:ARG:CD	11:aA:139:ILE:HG21	2.14	0.78
3:L4:68:ARG:CB	11:aA:81:ASP:C	2.57	0.78
4:M4:29:PRO:CG	11:aA:226:PHE:CA	2.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:95:ALA:H	3:Q4:88:ILE:HD13	1.49	0.78
3:O4:107:ASP:OD1	5:Z4:66:ARG:NH1	2.16	0.78
3:O4:119:ALA:HB2	5:Z4:72:GLU:H	1.48	0.78
8:A5:106:GLU:CD	10:k5:557:VAL:O	2.27	0.78
1:B5:14:VAL:HG11	10:k5:555:ALA:HA	1.66	0.78
8:e5:49:ARG:NH1	1:R5:50:THR:CG2	2.46	0.78
6:M6:283:VAL:CG1	8:Y7:75:GLU:CB	2.42	0.78
8:A7:64:ASP:HA	8:A7:67:SER:OG	1.84	0.78
10:j5:230:VAL:O	10:j5:234:LEU:CG	2.31	0.78
10:j5:929:PRO:CG	1:J7:147:LYS:CE	2.60	0.78
10:j5:974:LEU:HG	1:v7:1:MET:H3	1.02	0.78
10:j5:1118:THR:CB	12:j5:1202:CYC:O2A	2.32	0.78
1:N7:106:GLU:CG	9:z7:58:THR:HG23	2.14	0.78
8:a7:56:ASP:OD1	11:a9:325:LEU:HD13	1.84	0.78
8:c7:17:TYR:HB3	1:d7:45:SER:HB3	1.64	0.78
2:A8:33:ARG:CZ	12:L8:201:CYC:OB	2.31	0.78
8:o7:97:VAL:CG2	1:p7:19:LEU:HD13	2.04	0.78
1:v7:68:PRO:O	11:aA:42:ARG:CZ	2.32	0.78
9:y7:3:ARG:NE	9:y7:67:VAL:CG1	2.42	0.78
12:X8:201:CYC:HC	12:X8:201:CYC:CMD	1.97	0.78
12:H8:201:CYC:CBB	11:a9:259:ALA:HA	2.14	0.78
5:Z8:24:PRO:HG2	5:Z8:35:ASP:O	1.83	0.78
12:S9:201:CYC:HC	12:S9:201:CYC:CMD	1.97	0.78
11:a9:308:LEU:CD2	11:a9:315:LEU:HD12	2.12	0.78
11:aA:89:ALA:HA	11:aA:92:LYS:NZ	1.98	0.78
12:AA:201:CYC:HC	12:AA:201:CYC:CMD	1.97	0.77
4:MA:29:PRO:HD3	11:aA:378:GLU:OE1	1.82	0.77
3:J3:84:ARG:HD3	11:a9:668:TYR:HD1	0.61	0.77
12:I2:201:CYC:HC	12:I2:201:CYC:CMD	1.97	0.77
4:M4:141:GLU:CD	4:M4:145:LEU:HG	2.09	0.77
2:N4:13:ASP:CG	3:O4:108:ARG:CZ	2.57	0.77
3:Q4:85:ASP:HA	3:Q4:88:ILE:CG1	2.14	0.77
1:L5:82:ILE:HD11	8:G5:118:SER:HB2	1.65	0.77
12:F5:201:CYC:HMA2	10:k5:591:ILE:HG21	1.65	0.77
8:Y5:64:ASP:HA	8:Y5:67:SER:OG	1.83	0.77
8:A7:120:GLN:HG3	1:F7:53:LYS:HZ1	1.48	0.77
10:j5:929:PRO:HG2	1:J7:147:LYS:HG3	1.63	0.77
10:j5:1119:LEU:HD11	1:t7:87:TYR:CE2	2.19	0.77
8:I7:25:ARG:HH21	8:W7:25:ARG:CG	1.96	0.77
8:M7:64:ASP:HA	8:M7:67:SER:OG	1.83	0.77
8:a7:29:PHE:CE1	8:a7:98:ALA:C	2.61	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c7:2:SER:OG	1:d7:3:ASP:OD2	2.01	0.77
8:m7:29:PHE:CE1	8:m7:98:ALA:C	2.61	0.77
8:o7:17:TYR:CE2	1:p7:93:THR:HB	2.18	0.77
8:q7:45:GLU:OE1	3:H1:125:ARG:NE	2.16	0.77
3:F8:115:GLU:CB	4:M8:3:VAL:CG1	2.61	0.77
11:a9:632:ILE:HG21	11:a9:634:ALA:CB	2.13	0.77
11:aA:290:ASP:O	11:aA:291:TYR:CG	2.36	0.77
12:K1:201:CYC:HC	12:K1:201:CYC:CMD	1.97	0.77
3:DA:14:LEU:HD11	3:ZA:125:ARG:HD2	1.65	0.77
4:MA:158:PHE:HA	3:VA:108:ARG:CD	2.14	0.77
2:O1:25:GLN:HG2	2:Y1:33:ARG:HG2	1.65	0.77
2:O1:33:ARG:CZ	12:Z1:201:CYC:OB	2.31	0.77
2:K3:33:ARG:HG2	2:A3:25:GLN:HG2	1.65	0.77
2:G2:16:GLY:CA	6:M2:104:ARG:CZ	2.61	0.77
12:A3:201:CYC:HC	12:A3:201:CYC:CMD	1.97	0.77
3:F4:113:LEU:HA	4:M4:5:THR:HG23	1.61	0.77
2:N4:33:ARG:CZ	12:Y4:201:CYC:OB	2.32	0.77
3:Y4:88:ILE:HG22	3:Y4:91:ARG:HH21	1.48	0.77
8:A5:110:ILE:HG13	1:F5:76:ARG:HD3	1.66	0.77
8:c5:64:ASP:HA	8:c5:67:SER:OG	1.83	0.77
12:T5:201:CYC:O2A	10:j5:483:PHE:HE1	1.68	0.77
8:U5:83:ARG:C	6:M6:26:PHE:CE1	2.63	0.77
10:j5:192:LYS:HA	10:j5:192:LYS:HZ2	1.48	0.77
10:j5:1019:SER:OG	1:f7:87:TYR:HE1	1.66	0.77
10:j5:1056:PRO:HD2	10:j5:1057:LYS:N	1.89	0.77
10:k5:136:VAL:HB	10:k5:137:PRO:CD	2.14	0.77
10:k5:230:VAL:O	10:k5:234:LEU:CG	2.31	0.77
10:k5:951:MET:HE1	10:k5:955:LEU:CG	2.14	0.77
10:k5:990:ARG:CZ	10:k5:1026:LYS:HZ1	1.97	0.77
10:k5:1015:TYR:O	10:k5:1016:LEU:C	2.27	0.77
12:E6:201:CYC:HC	12:E6:201:CYC:CMD	1.97	0.77
12:G6:201:CYC:HC	12:G6:201:CYC:CMD	1.97	0.77
8:I7:12:ASP:OD1	1:J7:91:TYR:OH	2.02	0.77
8:i7:47:ARG:CD	1:j7:18:TYR:CD2	2.67	0.77
8:U7:29:PHE:CE1	8:U7:98:ALA:C	2.61	0.77
12:E1:201:CYC:HC	12:E1:201:CYC:CMD	1.97	0.77
12:B8:202:CYC:CMA	4:M8:58:TYR:CA	2.63	0.77
2:X8:69:PRO:O	2:S9:42:ARG:HD3	1.83	0.77
3:H8:119:ALA:HB1	11:a9:266:ASN:ND2	1.98	0.77
2:N8:115:GLU:CB	5:Z8:33:GLY:N	2.47	0.77
3:Q8:78:ARG:HD3	12:Z8:301:CYC:HAD1	0.88	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S8:113:LEU:C	3:S8:116:THR:HG22	2.08	0.77
4:M9:274:VAL:CA	3:V9:77:ARG:NE	2.47	0.77
2:AA:25:GLN:HG2	2:KA:33:ARG:HG2	1.66	0.77
3:JA:111:ASN:N	11:aA:518:ALA:CB	2.48	0.77
12:QA:201:CYC:HAA1	3:TA:79:MET:HE3	1.64	0.77
2:K3:13:ASP:OD2	11:a9:707:PHE:CE2	2.37	0.77
2:A3:33:ARG:CZ	12:L3:201:CYC:OB	2.32	0.77
2:C3:140:SER:O	3:D8:150:ARG:CZ	2.31	0.77
12:B4:202:CYC:CMA	4:M4:58:TYR:CA	2.63	0.77
4:M3:1:MET:HB3	4:M3:44:SER:O	1.84	0.77
4:M3:80:PRO:HA	3:X3:111:ASN:ND2	2.00	0.77
12:O3:201:CYC:HC	12:O3:201:CYC:CMD	1.97	0.77
1:P5:114:GLU:CD	10:k5:496:GLU:CG	2.49	0.77
10:k5:388:ARG:HD3	10:k5:393:MET:H	1.49	0.77
12:K8:201:CYC:HC	12:K8:201:CYC:CMD	1.97	0.77
4:M8:270:GLY:H	3:Y8:108:ARG:HA	1.49	0.77
3:O8:111:ASN:ND2	5:Z8:68:LEU:CD2	2.47	0.77
4:M9:1:MET:HB3	4:M9:44:SER:O	1.84	0.77
4:M9:58:TYR:CE1	11:a9:496:ARG:NH2	2.52	0.77
11:aA:338:VAL:C	11:aA:340:PRO:HD3	2.08	0.77
11:aA:643:LEU:CD2	11:aA:689:VAL:HG23	2.14	0.77
11:aA:667:THR:CG2	12:aA:901:CYC:CGA	2.57	0.77
11:aA:735:VAL:N	12:aA:902:CYC:CBA	2.39	0.77
12:Y1:201:CYC:HC	12:Y1:201:CYC:CMD	1.97	0.77
12:C2:201:CYC:HC	12:C2:201:CYC:CMD	1.97	0.77
6:M2:57:GLU:CD	8:i7:76:LYS:HZ1	1.92	0.77
7:N2:49:LEU:HD12	3:B2:84:ARG:CZ	2.14	0.77
2:A4:33:ARG:CZ	12:L4:201:CYC:OB	2.31	0.77
3:B4:86:MET:HG3	12:B4:202:CYC:CBC	2.14	0.77
5:N3:34:LEU:HB3	3:T3:84:ARG:HH11	1.49	0.77
3:F4:115:GLU:HG2	4:M4:3:VAL:HG21	1.64	0.77
4:M4:129:GLU:N	4:M4:142:PHE:CZ	2.50	0.77
4:M4:232:VAL:HG23	4:M4:235:PHE:CE2	2.19	0.77
1:L5:76:ARG:HD3	8:G5:110:ILE:HG13	1.66	0.77
8:O5:76:LYS:O	8:O5:78:THR:N	2.17	0.77
8:G5:134:LYS:HE2	8:o7:75:GLU:OE2	1.84	0.77
1:R5:106:GLU:HG3	10:k5:505:VAL:CA	2.15	0.77
1:X5:144:ASP:HB3	8:a5:38:ARG:HH21	1.44	0.77
8:A7:56:ASP:CG	11:aA:586:LEU:HD11	2.08	0.77
9:z5:8:THR:CG2	9:z5:52:LEU:HB2	2.14	0.77
10:j5:388:ARG:HD3	10:j5:393:MET:H	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1024:LYS:O	10:j5:1030:ILE:HG22	1.84	0.77
10:k5:931:VAL:O	1:D7:29:ALA:HB1	1.83	0.77
10:k5:1024:LYS:O	10:k5:1030:ILE:HG22	1.84	0.77
8:k7:64:ASP:HA	8:k7:67:SER:OG	1.83	0.77
2:E1:13:ASP:OD1	11:aA:644:ARG:NH1	2.16	0.77
3:H8:119:ALA:CB	11:a9:266:ASN:CG	2.58	0.77
3:T1:59:LEU:HD22	3:T1:130:ALA:HB2	1.67	0.77
12:HA:202:CYC:OB	11:aA:474:PHE:CZ	2.37	0.77
5:NA:66:ARG:HH12	3:TA:111:ASN:CG	1.92	0.77
3:S4:113:LEU:C	3:S4:116:THR:HG22	2.08	0.77
12:E4:201:CYC:HC	12:E4:201:CYC:CMD	1.97	0.77
4:M4:1:MET:HB3	4:M4:44:SER:O	1.84	0.77
8:U5:79:ALA:CB	6:M6:32:MET:CA	2.63	0.77
9:z5:6:LYS:CB	9:z5:55:LYS:HB3	2.15	0.77
9:i5:22:GLU:O	9:i5:25:ASN:N	2.16	0.77
10:j5:586:LEU:HD11	10:j5:607:LEU:CD2	2.14	0.77
10:k5:190:LEU:HB3	10:k5:194:CYS:HG	1.47	0.77
8:I7:29:PHE:CE1	8:I7:98:ALA:C	2.61	0.77
8:W7:13:ALA:HA	9:w7:46:LYS:CE	2.15	0.77
8:c7:44:THR:HG23	1:d7:18:TYR:CD2	2.20	0.77
12:A8:201:CYC:HC	12:A8:201:CYC:CMD	1.97	0.77
3:B8:120:LEU:HG	4:M8:52:LEU:HD13	1.64	0.77
8:s7:12:ASP:OD1	1:t7:91:TYR:OH	2.02	0.77
8:s7:29:PHE:HZ	8:s7:98:ALA:O	1.62	0.77
3:U8:59:LEU:HD22	3:U8:130:ALA:HB2	1.67	0.77
2:X8:107:ASP:HB3	4:M8:273:ILE:CG2	2.13	0.77
12:M8:302:CYC:HAC2	3:S8:78:ARG:CG	2.14	0.77
12:N8:201:CYC:HC	12:N8:201:CYC:CMD	1.97	0.77
5:Z8:29:HIS:HE1	5:Z8:31:TRP:HB2	1.43	0.77
3:H9:84:ARG:NH2	11:a9:474:PHE:CD2	2.53	0.77
12:I9:201:CYC:HC	12:I9:201:CYC:CMD	1.97	0.77
11:aA:531:ASP:OD1	11:aA:531:ASP:N	2.13	0.77
3:H1:81:ALA:CB	12:H1:201:CYC:C3D	2.63	0.77
12:E2:201:CYC:HC	12:E2:201:CYC:CMD	1.97	0.77
3:HA:72:ASN:OD1	12:HA:202:CYC:C2D	2.32	0.77
12:OA:201:CYC:HC	12:OA:201:CYC:CMD	1.97	0.77
3:VA:59:LEU:HD22	3:VA:130:ALA:HB2	1.67	0.77
12:Q1:201:CYC:HC	12:Q1:201:CYC:CMD	1.97	0.77
12:I3:201:CYC:HC	12:I3:201:CYC:CMD	1.97	0.77
3:H2:77:ARG:HD2	6:M2:117:MET:HE3	1.67	0.77
2:A4:63:PHE:CB	2:A4:66:LEU:CD1	2.55	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B4:82:CYS:CB	12:B4:202:CYC:C1C	2.62	0.77
12:U3:201:CYC:HC	12:U3:201:CYC:CMD	1.97	0.77
3:H4:59:LEU:HD22	3:H4:130:ALA:HB2	1.67	0.77
4:M4:128:ALA:HB1	4:M4:142:PHE:CZ	2.19	0.77
12:N4:201:CYC:HC	12:N4:201:CYC:CMD	1.97	0.77
10:k5:275:THR:HG23	10:k5:286:VAL:HG13	1.64	0.77
10:k5:1017:ARG:HH21	10:k5:1017:ARG:CB	1.98	0.77
1:H7:54:GLU:OE2	11:aA:563:PHE:HB2	1.84	0.77
8:g7:25:ARG:CZ	8:u7:25:ARG:CZ	2.62	0.77
8:i7:25:ARG:HH22	8:s7:6:LYS:H	1.31	0.77
8:U7:60:GLN:NE2	1:p7:117:ASN:OD1	2.17	0.77
1:Z7:67:ARG:HH12	11:a9:307:ARG:HG2	1.48	0.77
8:a7:25:ARG:NE	8:o7:25:ARG:NE	2.28	0.77
3:H8:59:LEU:HD22	3:H8:130:ALA:HB2	1.67	0.77
12:P8:201:CYC:HC	12:P8:201:CYC:CMD	1.97	0.77
3:L9:48:ALA:HB2	2:K9:18:PHE:CZ	2.18	0.77
3:L9:97:LEU:O	3:L9:97:LEU:HD12	1.84	0.77
3:H9:113:LEU:CD2	12:H9:202:CYC:CMB	2.58	0.77
3:J9:111:ASN:N	11:a9:518:ALA:CB	2.48	0.77
11:aA:338:VAL:CG2	11:aA:340:PRO:HG3	2.15	0.77
12:I1:201:CYC:HC	12:I1:201:CYC:CMD	1.97	0.77
2:AA:33:ARG:CZ	12:LA:201:CYC:OB	2.31	0.77
3:FA:150:ARG:CA	3:F9:150:ARG:HG2	2.07	0.77
2:OA:25:GLN:HG2	2:YA:33:ARG:HG2	1.65	0.77
2:OA:33:ARG:CZ	12:ZA:201:CYC:OB	2.31	0.77
3:TA:32:LYS:CD	2:X4:57:GLN:CD	2.58	0.77
12:O1:201:CYC:HC	12:O1:201:CYC:CMD	1.97	0.77
3:F4:108:ARG:C	4:M4:6:THR:CG2	2.47	0.77
4:M4:205:ASP:CG	5:Z4:62:ARG:HH21	1.92	0.77
5:Z4:1:MET:HA	5:Z4:1:MET:CE	2.10	0.77
12:K6:201:CYC:HC	12:K6:201:CYC:CMD	1.97	0.77
6:M6:50:LEU:HD21	8:c7:79:ALA:O	1.82	0.77
9:i5:8:THR:CG2	9:i5:52:LEU:HB2	2.14	0.77
10:k5:729:ILE:CD1	1:D7:64:ASP:OD1	2.32	0.77
8:g7:10:ASN:HD22	8:u7:10:ASN:ND2	1.80	0.77
8:g7:29:PHE:HZ	8:g7:98:ALA:O	1.62	0.77
8:c7:112:VAL:CG1	8:c7:113:LYS:H	1.98	0.77
8:u7:37:LEU:HD13	1:v7:24:LEU:HB3	1.67	0.77
3:L8:113:LEU:CD2	12:a9:901:CYC:CMB	2.63	0.77
4:M8:224:PHE:O	12:M8:301:CYC:O1A	2.02	0.77
3:J9:70:GLY:HA2	11:a9:357:THR:C	2.09	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:818:ARG:HG3	11:a9:818:ARG:NH1	1.94	0.77
12:U1:201:CYC:HC	12:U1:201:CYC:CMD	1.97	0.77
3:HA:78:ARG:HD3	12:HA:202:CYC:O2D	1.84	0.77
2:SA:38:MET:O	2:X4:69:PRO:CG	2.23	0.77
2:A1:63:PHE:CB	2:A1:66:LEU:CD1	2.56	0.77
3:J3:121:GLY:HA2	11:a9:804:ARG:HH21	1.49	0.77
2:G2:116:VAL:HG21	3:L2:76:ASN:OD1	1.85	0.77
12:G2:201:CYC:HC	12:G2:201:CYC:CMD	1.97	0.77
3:Z3:77:ARG:HG3	4:M3:274:VAL:HG13	1.65	0.77
4:M4:232:VAL:CG2	4:M4:235:PHE:CE2	2.66	0.77
12:M4:301:CYC:HMC2	3:Y4:66:LEU:HD22	1.67	0.77
12:X4:201:CYC:HC	12:X4:201:CYC:CMD	1.97	0.77
8:E5:80:LEU:CD1	12:E5:201:CYC:CAD	2.53	0.77
8:G5:107:ILE:CD1	1:H5:13:ASP:CG	2.57	0.77
8:W5:16:ARG:HB2	1:X5:90:ARG:HH12	1.47	0.77
1:b5:18:TYR:HE2	10:k5:165:ARG:HA	1.50	0.77
10:j5:1050:PHE:HZ	1:r7:107:ARG:NH1	1.82	0.77
8:U7:12:ASP:OD1	1:V7:91:TYR:OH	2.02	0.77
3:U8:115:GLU:OE2	4:M8:70:SER:HB2	1.83	0.77
12:G8:201:CYC:HC	12:G8:201:CYC:CMD	1.97	0.77
4:M8:56:MET:HE1	4:M8:66:VAL:HG22	1.66	0.77
2:N8:13:ASP:CG	3:O8:108:ARG:CZ	2.57	0.77
2:N8:33:ARG:CZ	12:Y8:201:CYC:OB	2.32	0.77
3:S8:59:LEU:HD22	3:S8:130:ALA:HB2	1.67	0.77
1:A:158:SER:HB2	1:R5:11:ASN:HD22	1.46	0.77
3:JA:114:LYS:CG	8:S7:60:GLN:NE2	2.48	0.77
3:TA:59:LEU:HD22	3:TA:130:ALA:HB2	1.67	0.77
3:B3:84:ARG:NH1	12:B3:202:CYC:O2A	2.17	0.77
3:F4:91:ARG:NH2	11:aA:140:GLN:HE22	1.74	0.77
12:K4:201:CYC:HC	12:K4:201:CYC:CMD	1.97	0.77
2:N4:111:ALA:HB1	5:Z4:34:LEU:HG	0.77	0.77
1:L5:68:PRO:C	1:H5:14:VAL:O	2.28	0.77
8:M5:64:ASP:HA	8:M5:67:SER:OG	1.83	0.77
8:G5:49:ARG:HH21	8:G5:140:LEU:HD22	1.46	0.77
8:S5:90:ARG:HD2	1:T5:17:LYS:C	2.09	0.77
8:W5:12:ASP:N	1:X5:94:TYR:CE2	2.38	0.77
3:J6:59:LEU:HD22	3:J6:130:ALA:HB2	1.67	0.77
12:L6:202:CYC:OB	2:A6:33:ARG:CZ	2.32	0.77
10:j5:56:ILE:CG2	10:j5:57:VAL:N	2.46	0.77
10:j5:990:ARG:CZ	10:j5:1026:LYS:HZ1	1.98	0.77
10:k5:586:LEU:HD11	10:k5:607:LEU:CD2	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:1119:LEU:HD11	12:k5:1204:CYC:CBB	2.14	0.77
8:O7:49:ARG:HH11	1:r7:114:GLU:CD	1.89	0.77
1:h7:66:THR:OG1	12:i7:201:CYC:O2A	2.02	0.77
8:i7:47:ARG:HG3	1:j7:18:TYR:OH	1.83	0.77
8:m7:12:ASP:OD1	1:n7:91:TYR:OH	2.02	0.77
3:J8:59:LEU:HD22	3:J8:130:ALA:HB2	1.67	0.77
3:L8:59:LEU:HD22	3:L8:130:ALA:HB2	1.67	0.77
3:L9:14:LEU:HG	11:a9:358:PRO:CB	2.14	0.77
3:L9:113:LEU:N	11:a9:532:ALA:HB3	1.99	0.77
3:J9:59:LEU:HD22	3:J9:130:ALA:HB2	1.67	0.77
4:MA:58:TYR:CE1	11:aA:496:ARG:NH2	2.53	0.77
3:TA:28:THR:CG2	2:X4:67:THR:O	2.33	0.77
3:L2:70:GLY:CA	6:M2:67:GLY:HA2	2.15	0.77
3:B3:59:LEU:HD22	3:B3:130:ALA:HB2	1.67	0.77
3:F4:88:ILE:CD1	11:aA:140:GLN:HG2	2.15	0.77
4:M4:56:MET:SD	4:M4:66:VAL:CG2	2.73	0.77
3:O4:59:LEU:HD22	3:O4:130:ALA:HB2	1.67	0.77
3:O4:111:ASN:HB2	5:Z4:67:ILE:HB	1.66	0.77
2:P4:12:ALA:HB1	3:Q4:95:TYR:OH	1.85	0.77
12:R4:201:CYC:HC	12:R4:201:CYC:CMD	1.97	0.77
1:f5:114:GLU:HB3	10:j5:491:THR:CB	2.15	0.77
10:j5:1017:ARG:HH21	10:j5:1017:ARG:CB	1.98	0.77
10:k5:136:VAL:HB	10:k5:137:PRO:HD2	1.67	0.77
12:I6:201:CYC:HC	12:I6:201:CYC:CMD	1.97	0.77
1:H7:136:VAL:HA	11:aA:563:PHE:HZ	1.49	0.77
8:c7:124:PRO:O	8:c7:125:ALA:C	2.13	0.77
12:V8:201:CYC:HC	12:V8:201:CYC:CMD	1.97	0.77
3:L8:68:ARG:CB	11:a9:81:ASP:HA	2.09	0.77
4:M8:217:VAL:HG21	5:Z8:30:PRO:HG3	0.77	0.77
4:M9:160:THR:N	3:V9:108:ARG:CG	2.48	0.77
3:B9:59:LEU:HD22	3:B9:130:ALA:HB2	1.67	0.77
12:W9:201:CYC:HC	12:W9:201:CYC:CMD	1.97	0.77
11:aA:710:THR:HG22	11:aA:807:GLN:HG3	1.40	0.77
3:HA:59:LEU:HD22	3:HA:130:ALA:HB2	1.67	0.76
3:HA:108:ARG:NH1	11:aA:448:ASN:ND2	2.32	0.76
3:LA:113:LEU:N	11:aA:532:ALA:HB3	2.00	0.76
12:SA:201:CYC:HC	12:SA:201:CYC:CMD	1.97	0.76
3:J3:84:ARG:CZ	11:a9:669:ILE:O	2.32	0.76
12:J3:202:CYC:HMA2	11:a9:666:ASN:CB	2.15	0.76
3:H2:59:LEU:HD22	3:H2:130:ALA:HB2	1.67	0.76
3:B3:88:ILE:CG2	12:B3:202:CYC:CMB	2.62	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:25:GLN:HG2	2:K4:33:ARG:HG2	1.66	0.76
3:D4:59:LEU:HD22	3:D4:130:ALA:HB2	1.67	0.76
4:M3:98:ASP:OD1	3:T3:1:MET:N	2.16	0.76
12:N5:201:CYC:O2A	10:k5:483:PHE:HE1	1.68	0.76
8:S5:66:VAL:CG1	8:E7:68:PRO:HG3	2.13	0.76
10:j5:990:ARG:HH11	10:j5:990:ARG:HG2	1.50	0.76
10:j5:1009:ALA:CB	1:v7:87:TYR:CE1	2.44	0.76
10:j5:1023:SER:CB	12:f7:201:CYC:HBA1	2.15	0.76
10:j5:1077:ILE:C	12:r7:201:CYC:HBA2	2.11	0.76
10:k5:385:PRO:O	10:k5:386:ILE:C	2.23	0.76
3:F6:59:LEU:HD22	3:F6:130:ALA:HB2	1.67	0.76
3:F6:130:ALA:HB1	12:F6:201:CYC:CBC	2.15	0.76
3:H6:59:LEU:HD22	3:H6:130:ALA:HB2	1.67	0.76
8:g7:90:ARG:HD2	1:h7:17:LYS:C	2.10	0.76
12:C8:201:CYC:HC	12:C8:201:CYC:CMD	1.97	0.76
8:o7:17:TYR:HD2	1:p7:93:THR:CG2	1.97	0.76
1:v7:136:VAL:CG1	11:aA:342:ARG:HH12	1.97	0.76
2:T8:111:ALA:HB1	4:M8:87:ILE:HG21	1.67	0.76
11:a9:643:LEU:CD2	11:a9:689:VAL:HG23	2.15	0.76
11:aA:795:ASP:HB3	3:J1:108:ARG:O	1.85	0.76
3:H1:78:ARG:O	12:H1:201:CYC:HMD3	1.85	0.76
5:N1:34:LEU:HB3	3:T1:84:ARG:HH11	1.49	0.76
1:Z:13:ASP:CG	8:e5:107:ILE:HD13	2.09	0.76
1:Z:118:SER:OG	10:j5:9:SER:HB2	1.85	0.76
2:QA:70:GLY:C	2:QA:74:TYR:CE2	2.62	0.76
3:P1:59:LEU:HD22	3:P1:130:ALA:HB2	1.67	0.76
3:L2:59:LEU:HD22	3:L2:130:ALA:HB2	1.67	0.76
12:Z3:202:CYC:HC	12:Z3:202:CYC:CMD	1.99	0.76
3:V3:59:LEU:HD22	3:V3:130:ALA:HB2	1.67	0.76
12:G4:201:CYC:HC	12:G4:201:CYC:CMD	1.97	0.76
4:M4:93:LEU:O	4:M4:216:ASN:ND2	2.18	0.76
3:Y4:124:THR:CB	3:Y4:172:ALA:HA	2.14	0.76
5:Z4:28:HIS:HB3	5:Z4:35:ASP:HA	1.66	0.76
8:A5:107:ILE:CD1	1:B5:13:ASP:CG	2.58	0.76
8:S5:110:ILE:HD12	10:j5:533:LEU:CD1	2.15	0.76
1:T5:110:ASN:CG	10:j5:692:LEU:C	2.53	0.76
7:N6:49:LEU:HD12	3:B6:84:ARG:CZ	2.14	0.76
10:k5:192:LYS:HA	10:k5:192:LYS:HZ2	1.48	0.76
12:k5:1204:CYC:CMA	12:k5:1204:CYC:HB	1.99	0.76
8:c7:17:TYR:CE2	1:d7:44:ILE:HG22	2.19	0.76
8:o7:30:VAL:HA	1:p7:31:PHE:HD1	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U8:202:CYC:CMD	12:U8:202:CYC:HC	1.99	0.76
3:F8:59:LEU:HD22	3:F8:130:ALA:HB2	1.67	0.76
4:M8:197:ASP:O	5:Z8:52:ARG:NH1	2.16	0.76
3:Q8:72:ASN:ND2	12:Z8:301:CYC:HMD3	1.99	0.76
3:Q8:77:ARG:N	5:Z8:34:LEU:HD13	1.98	0.76
3:Q8:117:TYR:HE1	5:Z8:39:PRO:HG2	1.47	0.76
12:Q9:201:CYC:HC	12:Q9:201:CYC:CMD	1.97	0.76
12:G1:201:CYC:HC	12:G1:201:CYC:CMD	1.97	0.76
11:a9:615:ARG:HH11	11:a9:615:ARG:HB3	1.48	0.76
11:aA:711:SER:HB3	3:L1:111:ASN:HB3	1.65	0.76
12:W1:201:CYC:HC	12:W1:201:CYC:CMD	1.97	0.76
3:X1:59:LEU:HD22	3:X1:130:ALA:HB2	1.67	0.76
3:LA:97:LEU:O	3:LA:97:LEU:HD12	1.84	0.76
12:YA:201:CYC:HC	12:YA:201:CYC:CMD	1.97	0.76
4:M4:232:VAL:N	12:M4:301:CYC:CBB	2.48	0.76
4:M4:273:ILE:HG23	2:X4:107:ASP:HB3	1.68	0.76
8:K5:24:ASP:OD1	8:U5:148:GLU:OE1	2.02	0.76
12:N5:201:CYC:CMA	12:N5:201:CYC:HB	1.99	0.76
5:Z4:22:LEU:HD12	5:Z4:22:LEU:O	1.86	0.76
1:d5:67:ARG:NH1	10:j5:705:THR:CB	2.47	0.76
8:Q5:16:ARG:CB	1:R5:90:ARG:HH11	1.81	0.76
3:L6:59:LEU:HD22	3:L6:130:ALA:HB2	1.67	0.76
10:j5:320:GLU:HA	10:j5:333:PHE:HE1	1.50	0.76
10:j5:875:LEU:HD21	10:j5:885:GLN:HE22	1.50	0.76
12:j7:201:CYC:CMA	12:j7:201:CYC:HB	1.99	0.76
8:c7:20:PRO:HG3	8:m7:155:TYR:CB	1.97	0.76
8:o7:23:LEU:HD22	1:p7:38:VAL:CG1	2.15	0.76
8:u7:17:TYR:CE2	1:v7:93:THR:HB	2.18	0.76
1:v7:68:PRO:HB2	11:aA:42:ARG:HD3	1.67	0.76
3:U8:111:ASN:OD1	4:M8:77:LEU:CD1	2.32	0.76
3:U8:114:LYS:HZ1	4:M8:13:LYS:HZ2	1.32	0.76
2:X8:60:TYR:CB	3:T9:32:LYS:HZ2	1.99	0.76
3:L8:68:ARG:HB2	11:a9:82:GLN:CB	2.15	0.76
4:M8:197:ASP:O	5:Z8:52:ARG:NH2	2.17	0.76
12:M8:301:CYC:OC	3:Y8:72:ASN:OD1	2.03	0.76
3:Q8:127:VAL:HG21	12:Z8:301:CYC:HMC2	1.65	0.76
12:O9:201:CYC:HC	12:O9:201:CYC:CMD	1.97	0.76
3:Y8:59:LEU:HD22	3:Y8:130:ALA:HB2	1.67	0.76
3:V9:59:LEU:HD22	3:V9:130:ALA:HB2	1.67	0.76
4:M1:118:TYR:CD2	3:X1:84:ARG:NE	2.54	0.76
12:T1:301:CYC:HMA1	12:T1:301:CYC:HB	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:D2:202:CYC:CMD	12:D2:202:CYC:HC	1.99	0.76
12:EA:201:CYC:HC	12:EA:201:CYC:CMD	1.97	0.76
5:NA:7:ASP:N	3:RA:107:ASP:O	2.19	0.76
12:QA:201:CYC:CBB	3:TA:75:PRO:HB2	2.12	0.76
12:WA:201:CYC:HC	12:WA:201:CYC:CMD	1.97	0.76
12:L2:202:CYC:OB	2:A2:33:ARG:CZ	2.32	0.76
3:Z3:59:LEU:HD22	3:Z3:130:ALA:HB2	1.67	0.76
12:B4:202:CYC:HMA1	12:B4:202:CYC:HB	1.51	0.76
3:S4:59:LEU:HD22	3:S4:130:ALA:HB2	1.67	0.76
3:U4:108:ARG:HB3	4:M4:246:ALA:HB2	1.63	0.76
1:N5:110:ASN:HD21	10:k5:692:LEU:HB3	0.61	0.76
5:Z4:14:LYS:HE2	5:Z4:50:LEU:HD23	1.67	0.76
8:G5:61:ILE:CD1	8:o7:68:PRO:CD	2.64	0.76
8:U5:75:GLU:OE1	6:M6:43:TRP:HZ2	1.64	0.76
12:X5:201:CYC:HBB2	10:j5:520:ARG:CD	2.14	0.76
1:Z5:67:ARG:NH1	10:k5:705:THR:OG1	2.18	0.76
1:b5:5:ILE:HD13	10:k5:46:PHE:HZ	1.41	0.76
10:j5:66:MET:HA	10:j5:66:MET:CE	2.16	0.76
10:j5:929:PRO:HG3	1:J7:147:LYS:CE	2.14	0.76
10:k5:990:ARG:HH11	10:k5:990:ARG:HG2	1.50	0.76
12:A6:201:CYC:HC	12:A6:201:CYC:CMD	1.97	0.76
3:D1:59:LEU:HD22	3:D1:130:ALA:HB2	1.67	0.76
8:S7:25:ARG:CZ	8:G7:25:ARG:CZ	2.63	0.76
12:X7:201:CYC:CMA	12:X7:201:CYC:HB	1.99	0.76
8:a7:90:ARG:HD2	1:b7:17:LYS:C	2.10	0.76
8:a7:107:ILE:CD1	1:b7:13:ASP:CG	2.57	0.76
8:c7:11:ALA:HB1	1:d7:94:TYR:CE1	2.19	0.76
12:p7:201:CYC:CMA	12:p7:201:CYC:HB	1.99	0.76
8:q7:64:ASP:HB3	11:aA:69:ARG:NH2	1.99	0.76
12:I8:201:CYC:HC	12:I8:201:CYC:CMD	1.97	0.76
3:L8:85:ASP:OD2	12:a9:901:CYC:ND	2.18	0.76
4:M9:50:ASP:OD1	4:M9:50:ASP:N	2.15	0.76
4:M9:190:ARG:HH12	4:M9:202:SER:CB	1.98	0.76
5:N9:22:LEU:HD12	5:N9:22:LEU:O	1.86	0.76
12:A9:201:CYC:HC	12:A9:201:CYC:CMD	1.97	0.76
3:F9:148:VAL:O	3:F9:149:THR:C	2.27	0.76
12:F9:303:CYC:CMD	12:F9:303:CYC:HC	1.98	0.76
3:H9:59:LEU:HD22	3:H9:130:ALA:HB2	1.67	0.76
11:a9:239:TYR:OH	12:a9:901:CYC:NB	2.16	0.76
11:a9:350:LEU:HD12	11:a9:350:LEU:H	1.50	0.76
11:aA:803:ASN:HB3	3:J1:119:ALA:C	2.11	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A:201:CYC:CMA	12:A:201:CYC:HB	1.99	0.76
3:BA:59:LEU:HD22	3:BA:130:ALA:HB2	1.67	0.76
12:CA:201:CYC:HC	12:CA:201:CYC:CMD	1.97	0.76
12:IA:201:CYC:HC	12:IA:201:CYC:CMD	1.97	0.76
3:LA:120:LEU:CD2	11:aA:538:ARG:HB2	2.15	0.76
5:NA:54:LEU:HD21	3:TA:84:ARG:HD2	1.67	0.76
2:A1:25:GLN:HG2	2:K1:33:ARG:HG2	1.65	0.76
2:K3:15:GLN:C	11:a9:745:GLY:CA	2.58	0.76
6:M2:62:ARG:HH22	1:h7:57:ALA:C	1.93	0.76
3:X3:59:LEU:HD22	3:X3:130:ALA:HB2	1.67	0.76
3:B1:111:ASN:ND2	4:M1:7:SER:OG	2.16	0.76
3:F4:107:ASP:CB	4:M4:8:SER:CB	2.24	0.76
3:Q4:104:VAL:HG22	3:Q4:105:LEU:HD12	1.64	0.76
12:L5:201:CYC:O2A	10:j5:591:ILE:HG13	1.86	0.76
1:B5:14:VAL:O	1:F5:68:PRO:C	2.28	0.76
1:d5:67:ARG:HH12	10:j5:705:THR:HB	1.50	0.76
10:j5:275:THR:CG2	10:j5:286:VAL:O	2.33	0.76
10:j5:631:HIS:CG	10:j5:664:MET:HE1	2.21	0.76
10:j5:1015:TYR:O	10:j5:1016:LEU:C	2.27	0.76
10:k5:1070:ALA:HB1	10:k5:1071:PRO:HD3	1.67	0.76
1:N7:14:VAL:HG12	9:z7:64:ASN:ND2	2.00	0.76
8:g7:107:ILE:CD1	1:h7:13:ASP:CG	2.57	0.76
12:h7:201:CYC:CMA	12:h7:201:CYC:HB	1.99	0.76
1:T7:106:GLU:HG2	9:w7:58:THR:CG2	2.15	0.76
12:T8:201:CYC:HC	12:T8:201:CYC:CMD	1.97	0.76
2:X8:16:GLY:C	4:M8:228:SER:CB	2.58	0.76
2:X8:67:THR:O	3:T9:28:THR:CG2	2.33	0.76
12:R8:201:CYC:HC	12:R8:201:CYC:CMD	1.97	0.76
12:F9:302:CYC:HC	12:F9:302:CYC:CMD	1.98	0.76
11:a9:338:VAL:CG2	11:a9:340:PRO:HG3	2.15	0.76
11:aA:632:ILE:N	3:J1:111:ASN:ND2	2.34	0.76
3:L1:59:LEU:HD22	3:L1:130:ALA:HB2	1.67	0.76
5:N1:36:THR:OG1	12:T1:301:CYC:C4B	2.33	0.76
12:A2:201:CYC:HC	12:A2:201:CYC:CMD	1.97	0.76
3:JA:59:LEU:HD22	3:JA:130:ALA:HB2	1.67	0.76
3:ZA:59:LEU:HD22	3:ZA:130:ALA:HB2	1.67	0.76
12:R1:202:CYC:HC	12:R1:202:CYC:CMD	1.99	0.76
3:B3:112:GLY:N	4:M3:76:ALA:HB1	2.01	0.76
12:E3:201:CYC:HC	12:E3:201:CYC:CMD	1.97	0.76
12:A4:201:CYC:HC	12:A4:201:CYC:CMD	1.97	0.76
3:L3:104:VAL:HB	3:L3:108:ARG:HH22	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:W3:201:CYC:HC	12:W3:201:CYC:CMD	1.97	0.76
3:B1:112:GLY:N	4:M1:76:ALA:HB1	2.01	0.76
3:L4:59:LEU:HD22	3:L4:130:ALA:HB2	1.67	0.76
4:M4:87:ILE:HD12	3:Y4:77:ARG:CG	2.13	0.76
5:Z4:41:GLN:OE1	12:Z4:301:CYC:HBB2	1.85	0.76
1:J5:3:ASP:OD1	1:J5:3:ASP:N	2.10	0.76
1:d5:127:VAL:HG11	10:j5:697:PHE:C	2.10	0.76
12:P5:201:CYC:HB	12:P5:201:CYC:CMA	1.99	0.76
2:K6:33:ARG:HG2	2:A6:25:GLN:HG2	1.66	0.76
6:M6:66:GLY:CA	1:b7:125:ALA:HA	2.16	0.76
10:k5:875:LEU:HD21	10:k5:885:GLN:HE22	1.50	0.76
10:k5:888:THR:HG21	1:D7:83:ARG:NH1	1.99	0.76
12:C6:201:CYC:HC	12:C6:201:CYC:CMD	1.97	0.76
3:F6:78:ARG:HG2	12:F6:201:CYC:CGD	2.16	0.76
8:C7:102:THR:CB	8:C7:103:PRO:CD	2.64	0.76
8:a7:90:ARG:CZ	1:b7:16:GLY:HA2	2.16	0.76
8:s7:102:THR:CB	8:s7:103:PRO:CD	2.64	0.76
4:M8:205:ASP:OD2	5:Z8:59:ARG:CB	2.34	0.76
3:O8:59:LEU:HD22	3:O8:130:ALA:HB2	1.67	0.76
3:L9:52:ILE:CD1	3:L9:87:GLU:CG	2.61	0.76
4:M9:29:PRO:HD3	11:a9:378:GLU:OE1	1.83	0.76
5:N9:54:LEU:HA	12:T9:301:CYC:HMA2	1.68	0.76
3:X9:59:LEU:HD22	3:X9:130:ALA:HB2	1.67	0.76
3:H1:59:LEU:HD22	3:H1:130:ALA:HB2	1.67	0.76
12:J1:201:CYC:CMD	12:J1:201:CYC:HC	1.99	0.76
3:TA:25:ASN:HB3	2:X4:64:PRO:O	1.85	0.76
3:T3:59:LEU:HD22	3:T3:130:ALA:HB2	1.67	0.76
3:S4:82:CYS:HA	12:S4:202:CYC:HAC1	1.65	0.76
4:M4:269:SER:O	3:Y4:108:ARG:HA	1.85	0.76
12:d5:201:CYC:HB	12:d5:201:CYC:CMA	1.99	0.76
1:R5:86:ASP:CG	1:R5:90:ARG:HE	1.94	0.76
12:Z5:201:CYC:CMA	12:Z5:201:CYC:HB	1.99	0.76
3:L6:70:GLY:CA	6:M6:67:GLY:HA2	2.15	0.76
10:j5:743:VAL:HG13	12:J7:201:CYC:O2D	1.86	0.76
8:k7:76:LYS:NZ	11:a9:604:ALA:HB1	2.01	0.76
12:f7:201:CYC:CMA	12:f7:201:CYC:HB	1.99	0.76
12:B8:202:CYC:HMA1	12:B8:202:CYC:HB	1.50	0.76
8:o7:97:VAL:HG22	1:p7:19:LEU:CD1	2.15	0.76
3:L8:68:ARG:CB	11:a9:81:ASP:C	2.58	0.76
4:M8:140:ARG:NE	4:M8:209:TYR:CE1	2.53	0.76
12:M8:301:CYC:C3B	3:Y8:88:ILE:CG2	2.64	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M8:302:CYC:C2C	3:S8:78:ARG:HD2	2.06	0.76
3:L9:59:LEU:HD22	3:L9:130:ALA:HB2	1.67	0.76
3:F9:59:LEU:HD22	3:F9:130:ALA:HB2	1.67	0.76
12:G9:201:CYC:HC	12:G9:201:CYC:CMD	1.97	0.76
3:H9:120:LEU:HD13	12:H9:202:CYC:CAA	2.14	0.76
12:J9:201:CYC:HC	12:J9:201:CYC:CMD	1.98	0.76
11:a9:418:LEU:HD13	11:a9:428:PHE:HB2	1.68	0.76
11:aA:775:LYS:CA	12:H1:201:CYC:HBA2	2.13	0.76
3:Z1:59:LEU:HD22	3:Z1:130:ALA:HB2	1.67	0.76
12:Z:201:CYC:HB	12:Z:201:CYC:CMA	1.99	0.76
3:DA:111:ASN:O	4:MA:6:THR:N	2.18	0.76
3:LA:59:LEU:HD22	3:LA:130:ALA:HB2	1.67	0.76
4:MA:160:THR:N	3:VA:108:ARG:CG	2.48	0.76
12:QA:201:CYC:HC	12:QA:201:CYC:CMD	1.97	0.76
12:H2:202:CYC:CMD	12:H2:202:CYC:HC	1.99	0.76
12:J2:201:CYC:CMD	12:J2:201:CYC:HC	1.98	0.76
6:M2:62:ARG:HH22	1:h7:58:LYS:CA	1.92	0.76
12:F3:202:CYC:HC	12:F3:202:CYC:CMD	1.99	0.76
3:L3:59:LEU:HD22	3:L3:130:ALA:HB2	1.67	0.76
3:R3:59:LEU:HD22	3:R3:130:ALA:HB2	1.67	0.76
12:W4:202:CYC:CMD	12:W4:202:CYC:HC	1.99	0.76
3:F4:59:LEU:HD22	3:F4:130:ALA:HB2	1.67	0.76
4:M4:205:ASP:CG	5:Z4:62:ARG:NH2	2.44	0.76
3:Q4:77:ARG:HA	5:Z4:34:LEU:CB	2.01	0.76
8:K5:20:PRO:CD	8:U5:155:TYR:HB2	2.14	0.76
8:Q5:16:ARG:HB2	1:R5:90:ARG:HH12	1.47	0.76
1:b5:18:TYR:CE2	10:k5:165:ARG:CB	2.66	0.76
6:M6:45:ILE:CD1	8:c7:78:THR:CG2	2.64	0.76
10:j5:199:THR:HG22	12:j5:1201:CYC:CBC	2.16	0.76
10:j5:931:VAL:HA	1:J7:29:ALA:O	1.85	0.76
10:k5:988:ALA:HB2	1:b7:106:GLU:OE2	1.86	0.76
10:k5:1147:TYR:CE1	11:a9:35:ARG:HB2	2.21	0.76
3:B6:59:LEU:HD22	3:B6:130:ALA:HB2	1.67	0.76
8:O7:22:GLU:O	8:O7:25:ARG:CG	2.33	0.76
12:F7:201:CYC:CMA	12:F7:201:CYC:HB	1.98	0.76
8:M7:41:GLN:HE21	3:H9:125:ARG:HE	1.34	0.76
12:V7:201:CYC:CMA	12:V7:201:CYC:HB	1.99	0.76
8:u7:97:VAL:HG22	1:v7:19:LEU:CD1	2.16	0.76
3:W8:59:LEU:HD22	3:W8:130:ALA:HB2	1.67	0.76
4:M8:100:SER:H	3:Q8:1:MET:HE2	1.49	0.76
12:O8:202:CYC:HC	12:O8:202:CYC:CMD	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q8:78:ARG:HH11	12:Z8:301:CYC:HAD2	1.49	0.76
12:F1:201:CYC:HMA1	12:F1:201:CYC:HB	1.51	0.76
4:M9:6:THR:N	3:D9:111:ASN:O	2.18	0.76
5:Z8:37:HIS:CD2	12:Z8:301:CYC:NA	2.54	0.76
12:Z8:301:CYC:HMA1	12:Z8:301:CYC:HB	1.50	0.76
2:A9:25:GLN:HG2	2:K9:33:ARG:HG2	1.66	0.76
12:H9:202:CYC:OB	11:a9:474:PHE:CZ	2.37	0.76
12:J9:202:CYC:CGA	11:a9:511:LYS:HA	2.16	0.76
12:K9:201:CYC:HC	12:K9:201:CYC:CMD	1.97	0.76
11:aA:594:ARG:HG3	11:aA:594:ARG:NH1	2.01	0.76
4:M1:160:THR:CG2	4:M1:257:GLN:HB2	2.07	0.76
3:D2:59:LEU:HD22	3:D2:130:ALA:HB2	1.67	0.76
1:Z:17:LYS:O	8:e5:94:TYR:OH	2.03	0.76
12:BA:201:CYC:HMA1	12:BA:201:CYC:HB	1.51	0.76
3:HA:72:ASN:HD21	12:HA:202:CYC:HBD2	1.49	0.76
3:JA:108:ARG:O	11:aA:518:ALA:N	2.18	0.76
12:KA:201:CYC:HC	12:KA:201:CYC:CMD	1.97	0.76
4:MA:158:PHE:CE1	2:UA:10:ALA:HA	2.21	0.76
6:M2:127:SER:HB2	3:F2:84:ARG:CZ	1.81	0.76
12:T3:301:CYC:HMA1	12:T3:301:CYC:HB	1.51	0.76
12:I4:201:CYC:HC	12:I4:201:CYC:CMD	1.97	0.76
3:O4:107:ASP:HA	5:Z4:66:ARG:HB2	1.66	0.76
12:O4:202:CYC:CMD	12:O4:202:CYC:HC	1.99	0.76
12:H5:201:CYC:HB	12:H5:201:CYC:CMA	1.99	0.76
12:X5:201:CYC:HB	12:X5:201:CYC:CMA	1.99	0.76
8:Y5:120:GLN:HG3	1:b5:53:LYS:HZ1	1.51	0.76
10:k5:1152:TYR:HE2	8:G7:68:PRO:HG2	0.93	0.76
12:R7:201:CYC:CMA	12:R7:201:CYC:HB	1.99	0.76
12:N7:201:CYC:CMA	12:N7:201:CYC:HB	1.99	0.76
8:a7:25:ARG:NE	8:o7:25:ARG:NH2	2.32	0.76
8:c7:92:VAL:HG13	8:c7:152:TYR:CB	2.16	0.76
12:J8:202:CYC:CMD	12:J8:202:CYC:HC	1.99	0.76
4:M8:232:VAL:CG2	4:M8:235:PHE:CE2	2.67	0.76
5:N9:7:ASP:N	3:R9:107:ASP:O	2.19	0.76
5:N9:54:LEU:HD21	3:T9:84:ARG:HD2	1.67	0.76
3:J9:108:ARG:O	11:a9:518:ALA:N	2.18	0.76
11:a9:640:ALA:HB1	11:a9:767:THR:HG22	1.68	0.76
11:aA:745:GLY:CA	2:K1:15:GLN:C	2.58	0.76
11:aA:787:ARG:HH22	11:aA:819:SER:HB3	1.51	0.76
12:QA:201:CYC:CBA	3:TA:79:MET:CE	2.63	0.76
12:A1:201:CYC:HC	12:A1:201:CYC:CMD	1.97	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:G3:201:CYC:HC	12:G3:201:CYC:CMD	1.97	0.76
5:N3:36:THR:OG1	12:T3:301:CYC:C4B	2.33	0.76
3:B1:107:ASP:O	4:M1:7:SER:N	2.19	0.76
12:B1:202:CYC:HB	12:B1:202:CYC:HMA1	1.51	0.76
3:S4:120:LEU:HD22	12:S4:202:CYC:CGD	2.16	0.76
12:T4:201:CYC:HC	12:T4:201:CYC:CMD	1.97	0.76
3:H4:80:ALA:HB3	3:H4:84:ARG:HH12	1.50	0.76
3:H4:119:ALA:CB	11:aA:266:ASN:CG	2.58	0.76
3:L4:115:GLU:HG2	11:aA:295:ARG:HH21	1.48	0.76
12:O4:201:CYC:HB	12:O4:201:CYC:HMA1	1.51	0.76
8:K5:131:ARG:HG2	8:K5:157:VAL:HG21	1.68	0.76
8:C5:110:ILE:HD12	9:z5:15:LYS:CB	2.15	0.76
12:F5:201:CYC:CMA	12:F5:201:CYC:HB	1.99	0.76
10:j5:136:VAL:HB	10:j5:137:PRO:HD2	1.67	0.76
10:j5:793:SER:HB3	12:T7:201:CYC:CGA	2.15	0.76
12:k5:1202:CYC:CMA	12:k5:1202:CYC:HB	1.98	0.76
12:D7:201:CYC:HB	12:D7:201:CYC:CMA	1.99	0.76
12:T7:201:CYC:HB	12:T7:201:CYC:CMA	1.99	0.76
8:c7:42:THR:HG22	8:c7:141:LEU:HD21	1.68	0.76
3:D8:59:LEU:HD22	3:D8:130:ALA:HB2	1.67	0.76
2:X8:67:THR:HB	3:T9:28:THR:HG23	1.66	0.76
4:M8:190:ARG:HH12	4:M8:202:SER:CB	1.98	0.76
3:F1:84:ARG:CZ	4:M1:35:THR:HB	2.16	0.76
11:a9:61:TYR:CD1	11:a9:65:LEU:HD22	2.20	0.76
11:aA:98:ILE:HD12	11:aA:101:ASP:CB	2.15	0.76
11:aA:817:LEU:HD11	3:L1:119:ALA:C	2.11	0.76
3:V1:59:LEU:HD22	3:V1:130:ALA:HB2	1.67	0.76
5:NA:14:LYS:HE2	5:NA:50:LEU:HD23	1.67	0.75
3:RA:59:LEU:HD22	3:RA:130:ALA:HB2	1.67	0.75
3:XA:59:LEU:HD22	3:XA:130:ALA:HB2	1.67	0.75
3:R1:59:LEU:HD22	3:R1:130:ALA:HB2	1.67	0.75
12:S1:201:CYC:HC	12:S1:201:CYC:CMD	1.97	0.75
3:L2:70:GLY:HA2	6:M2:67:GLY:HA2	1.68	0.75
12:Z3:201:CYC:HMA2	4:M3:188:LEU:CD2	2.16	0.75
3:B4:82:CYS:CA	12:B4:202:CYC:C2C	2.63	0.75
3:B4:116:THR:N	4:M4:56:MET:HE3	2.01	0.75
12:R3:202:CYC:HC	12:R3:202:CYC:CMD	1.99	0.75
3:U4:115:GLU:CG	4:M4:74:LEU:HD12	2.15	0.75
4:M4:51:ARG:HH11	4:M4:51:ARG:HB3	1.51	0.75
8:I5:110:ILE:HD12	9:i5:15:LYS:HB3	1.68	0.75
8:U5:83:ARG:CG	6:M6:31:ASP:CG	2.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1013:PRO:HB2	8:q7:114:GLU:OE2	1.86	0.75
10:j5:1056:PRO:CD	10:j5:1057:LYS:H	1.97	0.75
10:k5:841:VAL:CG1	10:k5:846:GLU:OE1	2.33	0.75
10:k5:1046:ARG:HH21	8:k7:9:VAL:HG11	1.50	0.75
10:k5:1078:SER:HA	12:k5:1203:CYC:CGA	2.16	0.75
10:k5:1143:LEU:HA	1:l7:10:ASN:ND2	2.00	0.75
12:k5:1203:CYC:HB	12:k5:1203:CYC:CMA	1.99	0.75
8:Q7:13:ALA:HA	9:z7:46:LYS:HZ3	0.60	0.75
8:g7:90:ARG:CZ	1:h7:16:GLY:HA2	2.16	0.75
8:U7:29:PHE:HE1	8:U7:98:ALA:O	1.68	0.75
8:a7:61:ILE:O	11:a9:336:ILE:HB	1.85	0.75
12:b7:201:CYC:CMA	12:b7:201:CYC:HB	1.99	0.75
8:o7:37:LEU:HD13	1:p7:24:LEU:HB3	1.67	0.75
8:q7:68:PRO:HG2	11:aA:334:LYS:CD	2.06	0.75
8:u7:36:ARG:HH21	8:u7:36:ARG:HG2	1.50	0.75
2:X8:57:GLN:CA	3:T9:32:LYS:NZ	2.28	0.75
3:Q8:59:LEU:HD22	3:Q8:130:ALA:HB2	1.67	0.75
12:P9:202:CYC:HC	12:P9:202:CYC:CMD	1.98	0.75
12:U9:201:CYC:HC	12:U9:201:CYC:CMD	1.97	0.75
11:aA:670:LEU:HD21	2:K1:112:GLY:CA	2.15	0.75
5:N1:22:LEU:O	5:N1:22:LEU:HD12	1.86	0.75
2:U1:47:ASN:O	2:U1:51:LEU:HG	1.86	0.75
3:FA:59:LEU:HD22	3:FA:130:ALA:HB2	1.67	0.75
4:MA:51:ARG:HH11	4:MA:51:ARG:HB3	1.51	0.75
12:R1:201:CYC:HBB2	5:N1:61:LYS:HZ2	1.49	0.75
3:L3:111:ASN:HB3	11:a9:711:SER:HB3	1.66	0.75
3:F4:107:ASP:C	4:M4:6:THR:HB	2.12	0.75
8:I5:35:ARG:HH22	8:I5:144:ASP:CB	1.99	0.75
8:e5:102:THR:CB	8:e5:103:PRO:CD	2.64	0.75
1:R5:106:GLU:CG	10:k5:504:ASP:C	2.59	0.75
12:J6:201:CYC:HC	12:J6:201:CYC:CMD	1.98	0.75
10:j5:1013:PRO:HB3	8:q7:114:GLU:OE2	1.84	0.75
10:j5:1041:ARG:NH2	10:j5:1094:ASP:OD2	2.19	0.75
10:j5:1146:THR:N	1:v7:77:ARG:NH2	2.29	0.75
10:k5:386:ILE:HD13	10:k5:395:SER:HG	1.50	0.75
10:k5:966:SER:HA	1:p7:14:VAL:HG12	0.76	0.75
8:C7:12:ASP:OD1	1:D7:91:TYR:OH	2.02	0.75
12:J7:201:CYC:CMA	12:J7:201:CYC:HB	1.99	0.75
8:i7:42:THR:HG22	8:i7:141:LEU:HD21	1.68	0.75
8:o7:36:ARG:HG2	8:o7:36:ARG:HH21	1.51	0.75
8:u7:23:LEU:HD22	1:v7:38:VAL:CG1	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u7:23:LEU:HD13	1:v7:38:VAL:CG1	2.16	0.75
8:u7:27:LYS:CD	1:v7:35:ALA:CA	2.58	0.75
3:F8:113:LEU:CA	4:M8:5:THR:HG23	2.17	0.75
3:H9:82:CYS:SG	12:H9:202:CYC:HAC1	2.26	0.75
3:H9:108:ARG:NH1	11:a9:448:ASN:ND2	2.33	0.75
3:R9:59:LEU:HD22	3:R9:130:ALA:HB2	1.67	0.75
3:T9:59:LEU:HD22	3:T9:130:ALA:HB2	1.67	0.75
11:aA:707:PHE:CE2	2:K1:13:ASP:OD2	2.39	0.75
4:M1:273:ILE:HG23	3:Z1:77:ARG:HE	1.51	0.75
5:N1:22:LEU:HD23	5:N1:26:LEU:CD1	1.83	0.75
1:Z:131:GLN:CG	1:X5:17:LYS:HZ3	1.95	0.75
3:H3:59:LEU:HD22	3:H3:130:ALA:HB2	1.67	0.75
3:F3:59:LEU:HD22	3:F3:130:ALA:HB2	1.67	0.75
3:F3:84:ARG:CZ	4:M3:35:THR:HB	2.16	0.75
4:M3:190:ARG:HH12	4:M3:202:SER:CB	1.98	0.75
3:H4:119:ALA:CB	11:aA:266:ASN:CB	2.59	0.75
8:C5:29:PHE:HE1	8:C5:98:ALA:O	1.69	0.75
1:H5:14:VAL:HG11	10:j5:555:ALA:HA	1.68	0.75
1:f5:114:GLU:HB3	10:j5:491:THR:OG1	1.86	0.75
12:f5:201:CYC:CMA	12:f5:201:CYC:HB	1.99	0.75
12:T5:201:CYC:HB	12:T5:201:CYC:CMA	1.99	0.75
1:X5:65:LEU:CD1	10:j5:706:PRO:CG	2.59	0.75
1:X5:144:ASP:OD1	1:X5:145:ALA:N	2.19	0.75
6:M6:267:THR:CG2	1:d7:161:SER:OXT	2.34	0.75
10:j5:741:GLN:CG	1:J7:77:ARG:NH2	2.39	0.75
10:j5:1055:SER:CB	12:r7:201:CYC:HBB2	2.17	0.75
10:j5:1067:LEU:CD1	10:j5:1101:GLU:CG	2.61	0.75
10:j5:1118:THR:CA	12:j5:1202:CYC:HBA1	2.15	0.75
10:k5:631:HIS:CG	10:k5:664:MET:HE1	2.21	0.75
12:L7:201:CYC:HB	12:L7:201:CYC:CMA	1.98	0.75
8:U7:35:ARG:HH22	8:U7:144:ASP:CB	2.00	0.75
12:r7:201:CYC:HB	12:r7:201:CYC:CMA	1.99	0.75
8:u7:27:LYS:HE2	1:v7:35:ALA:CB	1.95	0.75
3:F8:115:GLU:HG2	4:M8:3:VAL:CB	2.16	0.75
3:B9:107:ASP:CG	11:a9:382:ASN:HD22	1.94	0.75
12:D9:202:CYC:HC	12:D9:202:CYC:CMD	1.99	0.75
12:X9:202:CYC:HC	12:X9:202:CYC:CMD	1.98	0.75
3:F2:59:LEU:HD22	3:F2:130:ALA:HB2	1.67	0.75
3:HA:120:LEU:HD13	12:HA:202:CYC:CAA	2.17	0.75
5:NA:54:LEU:HA	12:TA:301:CYC:HMA2	1.68	0.75
3:B4:110:LEU:HA	3:B4:113:LEU:HB2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N3:22:LEU:O	5:N3:22:LEU:HD12	1.86	0.75
12:X3:202:CYC:HC	12:X3:202:CYC:CMD	1.98	0.75
8:A5:115:MET:CE	12:A5:201:CYC:C1B	2.65	0.75
12:D5:201:CYC:CMA	12:D5:201:CYC:HB	1.99	0.75
1:T5:87:TYR:CE2	10:j5:483:PHE:CE2	2.74	0.75
8:U5:35:ARG:HH22	8:U5:144:ASP:CB	1.99	0.75
10:j5:935:LEU:HD11	1:J7:25:ASP:O	1.85	0.75
10:k5:275:THR:CG2	10:k5:286:VAL:O	2.33	0.75
10:k5:306:GLU:OE2	10:k5:362:LYS:NZ	2.19	0.75
12:h7:201:CYC:HBB2	9:y7:21:ARG:HD3	1.66	0.75
3:L8:71:GLY:HA2	11:a9:82:GLN:NE2	2.02	0.75
3:L8:78:ARG:HH22	11:a9:88:ALA:H	1.33	0.75
4:M8:140:ARG:HD2	4:M8:215:GLU:HA	1.67	0.75
4:M8:201:ASP:N	5:Z8:52:ARG:HH22	1.83	0.75
5:N9:66:ARG:HH12	3:T9:111:ASN:CG	1.92	0.75
12:Y8:201:CYC:HC	12:Y8:201:CYC:CMD	1.99	0.75
11:a9:787:ARG:HH22	11:a9:819:SER:HB3	1.51	0.75
4:M1:190:ARG:HH12	4:M1:202:SER:CB	1.98	0.75
2:IA:25:GLN:HA	2:IA:25:GLN:NE2	2.01	0.75
5:NA:22:LEU:O	5:NA:22:LEU:HD12	1.86	0.75
5:NA:54:LEU:H	12:TA:301:CYC:CBA	1.99	0.75
12:RA:202:CYC:HC	12:RA:202:CYC:CMD	1.99	0.75
12:TA:302:CYC:HC	12:TA:302:CYC:CMD	1.98	0.75
3:J3:84:ARG:NH1	11:a9:668:TYR:HB3	2.02	0.75
5:N3:14:LYS:HE2	5:N3:50:LEU:HD23	1.67	0.75
3:B1:111:ASN:OD1	4:M1:76:ALA:HB3	1.87	0.75
12:F4:201:CYC:HC	12:F4:201:CYC:CMD	1.98	0.75
4:M4:190:ARG:HH12	4:M4:202:SER:CB	1.98	0.75
3:Y4:113:LEU:CD1	3:Y4:171:ILE:HG23	2.17	0.75
1:B5:76:ARG:CD	9:z5:14:LEU:HB2	2.16	0.75
8:E5:4:LEU:HD23	8:E5:26:ILE:HD13	1.69	0.75
8:G5:115:MET:CE	12:G5:201:CYC:C1B	2.65	0.75
12:V5:201:CYC:CBB	10:j5:623:VAL:HG21	2.15	0.75
8:W5:4:LEU:HD23	8:W5:26:ILE:HD13	1.69	0.75
8:a5:35:ARG:HH22	8:a5:144:ASP:CB	1.99	0.75
12:b5:201:CYC:CMA	12:b5:201:CYC:HB	1.99	0.75
10:k5:1118:THR:HG23	12:k5:1204:CYC:HBA1	1.68	0.75
8:c7:89:LEU:CD1	8:c7:153:PHE:CZ	2.70	0.75
12:d7:201:CYC:CMA	12:d7:201:CYC:HB	1.99	0.75
12:v7:201:CYC:HB	12:v7:201:CYC:CMA	1.99	0.75
9:y7:3:ARG:CZ	9:y7:67:VAL:HG12	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:W8:202:CYC:HC	12:W8:202:CYC:CMD	1.99	0.75
4:M8:232:VAL:HG23	4:M8:235:PHE:CE2	2.19	0.75
12:Z9:202:CYC:HMA1	12:Z9:202:CYC:HB	1.51	0.75
12:JA:202:CYC:HB	12:JA:202:CYC:HMA1	1.51	0.75
4:MA:274:VAL:HA	3:VA:77:ARG:NE	2.02	0.75
12:RA:201:CYC:HMA1	12:RA:201:CYC:HB	1.51	0.75
3:J3:119:ALA:C	11:a9:803:ASN:HB3	2.12	0.75
3:B1:59:LEU:HD22	3:B1:130:ALA:HB2	1.67	0.75
3:U4:59:LEU:HD22	3:U4:130:ALA:HB2	1.67	0.75
8:K5:4:LEU:HD23	8:K5:26:ILE:HD13	1.69	0.75
8:G5:126:VAL:HA	12:G5:201:CYC:HBC3	1.69	0.75
12:V5:201:CYC:CMA	12:V5:201:CYC:HB	1.99	0.75
1:Z5:161:SER:OG	10:k5:696:ARG:HA	1.85	0.75
3:L6:65:ASP:OD2	1:b7:64:ASP:CG	2.29	0.75
6:M6:117:MET:HE3	3:H6:77:ARG:HD2	1.67	0.75
10:j5:929:PRO:HG2	1:J7:147:LYS:CG	2.17	0.75
10:j5:965:GLN:HB3	10:j5:969:VAL:HG11	1.69	0.75
8:M7:49:ARG:HD2	11:a9:550:PHE:HE1	1.45	0.75
8:M7:60:GLN:HE22	3:J9:114:LYS:HD3	1.52	0.75
8:g7:61:ILE:O	11:aA:336:ILE:HB	1.87	0.75
8:i7:92:VAL:HG13	8:i7:152:TYR:CB	2.16	0.75
2:E8:15:GLN:HG2	11:a9:163:ASP:CB	2.16	0.75
8:o7:47:ARG:HG2	8:o7:47:ARG:HH21	1.51	0.75
3:F8:88:ILE:CD1	11:a9:140:GLN:HG2	2.15	0.75
2:N8:11:SER:CA	5:Z8:62:ARG:HH21	1.97	0.75
4:M9:158:PHE:CE1	2:U9:10:ALA:HA	2.21	0.75
12:J9:202:CYC:HB	12:J9:202:CYC:HMA1	1.51	0.75
12:R9:201:CYC:HB	12:R9:201:CYC:HMA1	1.51	0.75
11:a9:389:GLN:HA	11:a9:389:GLN:NE2	2.01	0.75
11:aA:95:ILE:CD1	11:aA:237:PHE:CZ	2.70	0.75
11:aA:312:ASP:CB	11:aA:315:LEU:HD12	2.16	0.75
11:aA:330:ASP:OD1	11:aA:330:ASP:N	2.13	0.75
11:aA:350:LEU:HD12	11:aA:350:LEU:H	1.50	0.75
11:aA:418:LEU:HD13	11:aA:428:PHE:HB2	1.68	0.75
4:M1:188:LEU:CD2	12:Z1:202:CYC:HMA2	2.16	0.75
12:ZA:202:CYC:HB	12:ZA:202:CYC:HMA1	1.51	0.75
12:R1:201:CYC:HB	5:N1:54:LEU:CD1	1.81	0.75
3:J3:108:ARG:O	11:a9:795:ASP:HB3	1.87	0.75
3:B4:120:LEU:CD1	4:M4:53:LEU:N	2.44	0.75
3:J4:59:LEU:HD22	3:J4:130:ALA:HB2	1.67	0.75
4:M4:197:ASP:O	5:Z4:52:ARG:CZ	2.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O4:116:THR:N	5:Z4:70:ILE:HG22	2.00	0.75
8:K5:112:VAL:HA	1:J5:75:THR:HB	1.69	0.75
12:J5:201:CYC:CMA	12:J5:201:CYC:HB	1.99	0.75
10:j5:1023:SER:HB3	12:f7:201:CYC:HBA1	1.67	0.75
10:k5:965:GLN:HB3	10:k5:969:VAL:HG11	1.68	0.75
8:Q7:12:ASP:C	9:z7:46:LYS:CE	2.59	0.75
5:N9:14:LYS:HE2	5:N9:50:LEU:HD23	1.67	0.75
12:P9:201:CYC:HMA1	12:P9:201:CYC:HB	1.51	0.75
2:G1:111:ALA:HB3	3:L1:77:ARG:NE	2.01	0.75
11:aA:631:GLY:CA	3:J1:111:ASN:ND2	2.49	0.75
1:A:127:VAL:CG1	1:R5:15:GLN:OE1	2.35	0.75
3:DA:59:LEU:HD22	3:DA:130:ALA:HB2	1.67	0.75
3:HA:116:THR:CG2	12:HA:202:CYC:HMA3	2.15	0.75
12:PA:201:CYC:HB	12:PA:201:CYC:HMA1	1.51	0.75
3:J2:59:LEU:HD22	3:J2:130:ALA:HB2	1.67	0.75
3:B3:107:ASP:O	4:M3:7:SER:N	2.19	0.75
3:D3:59:LEU:HD22	3:D3:130:ALA:HB2	1.67	0.75
3:B4:86:MET:H	12:B4:202:CYC:CBC	1.80	0.75
3:B1:82:CYS:SG	12:B1:202:CYC:C3C	2.75	0.75
4:M4:58:TYR:O	4:M4:61:ASN:ND2	2.20	0.75
12:M4:301:CYC:HB	12:M4:301:CYC:HMA1	1.51	0.75
1:L5:69:GLY:O	10:j5:554:ASN:ND2	2.19	0.75
8:M5:68:PRO:CB	8:e5:59:PHE:HB2	2.17	0.75
8:A5:126:VAL:HA	12:A5:201:CYC:HBC3	1.68	0.75
1:X5:86:ASP:CG	1:X5:90:ARG:HE	1.94	0.75
10:j5:388:ARG:HH21	10:j5:392:SER:HA	1.51	0.75
10:k5:388:ARG:HH21	10:k5:392:SER:HA	1.51	0.75
10:k5:449:ARG:HG3	10:k5:449:ARG:NH2	1.98	0.75
10:k5:970:GLY:N	1:n7:77:ARG:HH22	1.84	0.75
8:S7:106:GLU:OE2	9:w7:68:GLY:HA3	1.86	0.75
3:O8:111:ASN:O	5:Z8:67:ILE:HG22	1.84	0.75
3:P9:59:LEU:HD22	3:P9:130:ALA:HB2	1.67	0.75
5:Z8:14:LYS:HE2	5:Z8:50:LEU:HD23	1.67	0.75
5:Z8:22:LEU:HD22	5:Z8:26:LEU:HD13	1.59	0.75
5:Z8:22:LEU:HD12	5:Z8:22:LEU:O	1.85	0.75
3:D9:59:LEU:HD22	3:D9:130:ALA:HB2	1.67	0.75
2:I9:31:PHE:HE2	3:J9:31:VAL:HA	1.48	0.75
11:aA:508:ARG:HB2	11:aA:513:GLN:NE2	2.02	0.75
11:aA:666:ASN:CB	12:aA:901:CYC:HMA2	2.15	0.75
3:J1:59:LEU:HD22	3:J1:130:ALA:HB2	1.67	0.75
3:HA:113:LEU:HD22	12:HA:202:CYC:HMB1	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:KA:18:PHE:CZ	3:LA:48:ALA:HB1	2.19	0.75
2:G2:16:GLY:HA3	6:M2:104:ARG:HH11	1.51	0.75
3:Z3:120:LEU:HD21	4:M3:181:GLN:HE22	1.52	0.75
3:B4:59:LEU:HD22	3:B4:130:ALA:HB2	1.67	0.75
3:L4:68:ARG:HD2	11:aA:81:ASP:N	2.00	0.75
3:L4:78:ARG:HH22	11:aA:88:ALA:H	1.34	0.75
1:d5:67:ARG:NH1	10:j5:705:THR:HB	2.00	0.75
8:A7:51:VAL:HG11	11:aA:579:PHE:HE1	1.52	0.75
9:i5:22:GLU:C	9:i5:25:ASN:N	2.43	0.75
10:j5:934:ALA:CB	1:J7:32:THR:HG23	2.15	0.75
8:i7:47:ARG:NH1	1:j7:18:TYR:CD1	2.54	0.75
1:T7:110:ASN:HD21	9:w7:57:PHE:HA	1.51	0.75
8:a7:35:ARG:HH22	8:a7:144:ASP:CB	1.99	0.75
8:c7:39:ILE:HD12	8:c7:148:GLU:CG	2.09	0.75
8:o7:16:ARG:O	1:p7:94:TYR:HE1	1.70	0.75
8:u7:4:LEU:HD23	8:u7:26:ILE:HD13	1.69	0.75
4:M8:58:TYR:O	4:M8:61:ASN:ND2	2.19	0.75
3:F1:59:LEU:HD22	3:F1:130:ALA:HB2	1.67	0.75
3:F9:150:ARG:CZ	12:F9:302:CYC:C1C	2.62	0.75
11:aA:274:LEU:C	11:aA:278:LEU:HD11	2.12	0.75
3:LA:14:LEU:HG	11:aA:358:PRO:CB	2.15	0.74
3:J3:59:LEU:HD22	3:J3:130:ALA:HB2	1.67	0.74
3:J3:77:ARG:NE	2:K3:111:ALA:HB3	2.01	0.74
4:M3:118:TYR:CD2	3:X3:84:ARG:NE	2.54	0.74
4:M4:197:ASP:CG	5:Z4:52:ARG:NE	2.45	0.74
8:O5:35:ARG:HH22	8:O5:144:ASP:CB	1.99	0.74
8:e5:35:ARG:HH22	8:e5:144:ASP:CB	1.99	0.74
8:a5:29:PHE:HE1	8:a5:98:ALA:O	1.68	0.74
10:j5:930:LEU:CB	1:J7:33:THR:HG21	2.16	0.74
10:j5:934:ALA:HB3	1:J7:32:THR:CG2	2.14	0.74
10:j5:988:ALA:HA	1:h7:106:GLU:OE2	1.85	0.74
10:k5:503:LYS:HG2	10:k5:503:LYS:O	1.87	0.74
10:k5:803:LYS:HZ2	9:z7:43:ARG:HH11	1.33	0.74
10:k5:929:PRO:HG2	1:D7:147:LYS:HE2	1.66	0.74
10:k5:951:MET:CE	10:k5:955:LEU:CG	2.65	0.74
10:k5:1041:ARG:NH2	10:k5:1094:ASP:OD2	2.19	0.74
8:Q7:25:ARG:CG	8:C7:25:ARG:NH2	2.49	0.74
8:S7:25:ARG:NE	8:G7:25:ARG:NE	2.35	0.74
1:B7:140:LEU:CD1	11:a9:561:ALA:CA	2.65	0.74
1:B7:140:LEU:CG	11:a9:561:ALA:CB	2.65	0.74
8:I7:35:ARG:HH22	8:I7:144:ASP:CB	1.99	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i7:25:ARG:NH1	8:s7:6:LYS:C	2.44	0.74
8:o7:23:LEU:HD13	1:p7:38:VAL:CG1	2.16	0.74
8:q7:66:VAL:HG12	11:aA:65:LEU:HD21	1.66	0.74
2:X8:57:GLN:CD	3:T9:32:LYS:CD	2.58	0.74
3:F8:84:ARG:CD	11:a9:139:ILE:HG21	2.15	0.74
4:M8:77:LEU:HD12	4:M8:77:LEU:O	1.87	0.74
4:M8:160:THR:CG2	4:M8:257:GLN:HB2	2.08	0.74
4:M8:232:VAL:O	4:M8:235:PHE:HE2	1.62	0.74
4:M9:146:LEU:N	4:M9:146:LEU:HD23	2.02	0.74
3:Y8:113:LEU:CD2	3:Y8:171:ILE:HG12	2.17	0.74
3:BA:107:ASP:CG	11:aA:382:ASN:HD22	1.95	0.74
4:MA:134:ASN:HB2	12:RA:201:CYC:CAA	2.15	0.74
4:MA:146:LEU:HD23	4:MA:146:LEU:N	2.02	0.74
2:OA:33:ARG:NE	2:YA:28:ASN:ND2	2.35	0.74
12:VA:202:CYC:HC	12:VA:202:CYC:CMD	1.99	0.74
3:H2:77:ARG:NH1	6:M2:117:MET:HE1	1.97	0.74
6:M2:45:ILE:CD1	8:i7:78:THR:CG2	2.65	0.74
3:L3:119:ALA:CB	11:a9:813:PRO:CA	2.65	0.74
4:M3:51:ARG:HH11	4:M3:51:ARG:CB	2.00	0.74
5:Z4:38:GLU:H	12:Z4:301:CYC:HMB2	1.52	0.74
1:b5:30:TYR:HE2	10:k5:47:PHE:CE1	2.05	0.74
10:j5:902:ASN:O	10:j5:902:ASN:ND2	2.16	0.74
10:k5:742:GLY:C	12:D7:201:CYC:CGD	2.59	0.74
3:D1:68:ARG:HH22	3:X1:68:ARG:NH2	1.82	0.74
12:P7:201:CYC:HB	12:P7:201:CYC:CMA	1.99	0.74
8:i7:112:VAL:CG1	8:i7:113:LYS:H	1.98	0.74
8:i7:131:ARG:O	8:i7:131:ARG:HG3	1.87	0.74
3:B8:59:LEU:HD22	3:B8:130:ALA:HB2	1.67	0.74
8:s7:35:ARG:HH22	8:s7:144:ASP:CB	2.00	0.74
2:X8:64:PRO:O	3:T9:25:ASN:HB3	1.85	0.74
4:M8:140:ARG:HH21	5:Z8:26:LEU:HA	1.51	0.74
3:O8:107:ASP:CA	5:Z8:66:ARG:CB	2.65	0.74
12:L9:202:CYC:HMA1	11:a9:534:SER:CB	2.17	0.74
4:M9:51:ARG:HH11	4:M9:51:ARG:HB3	1.51	0.74
4:M9:273:ILE:CD1	3:V9:75:PRO:HD3	2.01	0.74
2:I9:25:GLN:HA	2:I9:25:GLN:NE2	2.01	0.74
11:a9:275:THR:C	11:a9:278:LEU:HD12	1.99	0.74
12:HA:202:CYC:NB	11:aA:474:PHE:CZ	2.53	0.74
5:NA:1:MET:HA	5:NA:1:MET:CE	2.10	0.74
2:QA:162:SER:C	2:WA:118:ARG:HD2	2.11	0.74
12:B3:202:CYC:HBA2	11:a9:684:ASN:HB3	0.74	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P3:59:LEU:HD22	3:P3:130:ALA:HB2	1.67	0.74
3:U4:108:ARG:CG	4:M4:246:ALA:HB2	2.17	0.74
3:W4:59:LEU:HD22	3:W4:130:ALA:HB2	1.67	0.74
4:M4:205:ASP:HB2	5:Z4:63:ASN:HD21	1.49	0.74
8:O5:29:PHE:HE1	8:O5:98:ALA:O	1.68	0.74
8:e5:38:ARG:NH2	1:R5:144:ASP:CG	2.43	0.74
3:L6:70:GLY:HA2	6:M6:67:GLY:HA2	1.68	0.74
10:j5:995:VAL:HG21	8:u7:14:GLU:OE2	1.87	0.74
10:k5:501:ILE:H	10:k5:501:ILE:HD12	1.52	0.74
10:k5:1077:ILE:HG22	12:k5:1203:CYC:HAA1	1.69	0.74
1:P7:76:ARG:HB2	8:Q7:110:ILE:HG13	1.70	0.74
8:C7:35:ARG:HH22	8:C7:144:ASP:CB	1.99	0.74
8:i7:39:ILE:HD12	8:i7:148:GLU:CG	2.09	0.74
8:i7:47:ARG:CZ	1:j7:18:TYR:CG	2.70	0.74
8:W7:4:LEU:HD23	8:W7:26:ILE:HD13	1.69	0.74
4:M8:51:ARG:HH11	4:M8:51:ARG:CB	2.00	0.74
3:L9:112:GLY:CA	11:a9:532:ALA:HB3	2.16	0.74
5:N9:4:LEU:HD11	3:R9:111:ASN:ND2	2.02	0.74
5:N9:20:ILE:HG21	5:N9:60:ILE:HD13	1.69	0.74
5:N9:70:ILE:HG21	3:T9:116:THR:CA	2.15	0.74
5:Z8:41:GLN:HB3	12:Z8:301:CYC:CHB	2.11	0.74
3:Z9:59:LEU:HD22	3:Z9:130:ALA:HB2	1.67	0.74
11:a9:316:GLY:HA2	11:a9:319:LEU:HB2	1.68	0.74
2:AA:33:ARG:NE	2:KA:28:ASN:ND2	2.36	0.74
5:NA:4:LEU:HD11	3:RA:111:ASN:ND2	2.02	0.74
5:NA:70:ILE:CG2	3:TA:119:ALA:CB	2.65	0.74
2:A1:33:ARG:NE	2:K1:28:ASN:ND2	2.36	0.74
12:Z3:201:CYC:HB	4:M3:188:LEU:HD21	1.52	0.74
12:H4:201:CYC:HMA1	11:aA:261:SER:HB3	1.69	0.74
1:B5:14:VAL:O	1:F5:69:GLY:N	2.21	0.74
12:D5:201:CYC:HBB2	9:z5:42:GLN:NE2	2.02	0.74
8:I5:29:PHE:HZ	8:I5:98:ALA:O	1.62	0.74
8:Q5:4:LEU:HD23	8:Q5:26:ILE:HD13	1.69	0.74
12:R5:201:CYC:CMA	12:R5:201:CYC:HB	1.99	0.74
1:Z5:67:ARG:HH12	10:k5:705:THR:CB	1.98	0.74
10:j5:283:ARG:HB2	10:j5:284:PRO:CD	2.18	0.74
10:k5:283:ARG:HD3	10:k5:283:ARG:N	2.02	0.74
10:k5:1054:SER:CA	1:l7:107:ARG:HA	2.17	0.74
8:G7:120:GLN:HG3	1:L7:53:LYS:HZ1	1.52	0.74
2:A8:33:ARG:NE	2:K8:28:ASN:ND2	2.35	0.74
8:u7:5:THR:CB	1:v7:6:THR:HG21	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u7:47:ARG:HG2	8:u7:47:ARG:HH21	1.51	0.74
2:X8:60:TYR:HB2	3:T9:32:LYS:HZ2	1.52	0.74
4:M9:77:LEU:O	4:M9:77:LEU:HD12	1.87	0.74
4:M9:263:PRO:CB	3:V9:119:ALA:HB2	2.10	0.74
3:H9:116:THR:CG2	12:H9:202:CYC:CMA	2.66	0.74
11:a9:95:ILE:CD1	11:a9:237:PHE:CZ	2.70	0.74
11:aA:632:ILE:CG1	3:J1:107:ASP:OD1	2.34	0.74
4:M1:80:PRO:HA	3:X1:111:ASN:ND2	2.00	0.74
5:N1:14:LYS:HE2	5:N1:50:LEU:HD23	1.67	0.74
4:MA:190:ARG:HH12	4:MA:202:SER:CB	1.98	0.74
2:QA:91:ARG:NH2	3:TA:74:TYR:OH	2.19	0.74
3:J3:111:ASN:ND2	11:a9:632:ILE:N	2.34	0.74
4:M3:51:ARG:HH11	4:M3:51:ARG:HB3	1.51	0.74
4:M3:246:ALA:HA	12:X3:201:CYC:HBB2	1.69	0.74
2:E4:1:MET:C	4:M4:10:ARG:NH2	2.45	0.74
4:M4:51:ARG:HH11	4:M4:51:ARG:CB	2.01	0.74
4:M4:92:GLU:OE1	4:M4:217:VAL:CG2	2.16	0.74
5:Z4:23:SER:OG	5:Z4:25:THR:HB	1.88	0.74
8:A5:122:PRO:CG	12:A5:201:CYC:OC	2.36	0.74
1:B5:83:ARG:HD2	9:z5:18:ARG:O	1.87	0.74
1:f5:34:GLY:CA	10:j5:47:PHE:CD2	2.71	0.74
1:R5:86:ASP:OD2	1:R5:90:ARG:NE	2.19	0.74
1:Z5:64:ASP:CB	10:k5:705:THR:CG2	2.63	0.74
9:i5:6:LYS:CB	9:i5:55:LYS:HB3	2.15	0.74
10:j5:1054:SER:C	10:j5:1056:PRO:HD3	2.13	0.74
10:k5:1019:SER:HG	1:Z7:87:TYR:HE1	1.34	0.74
10:k5:1143:LEU:HD12	8:k7:106:GLU:HB2	1.70	0.74
8:i7:89:LEU:CD1	8:i7:153:PHE:CZ	2.70	0.74
4:M8:101:ASP:HA	2:P8:13:ASP:CB	2.14	0.74
12:M8:302:CYC:C2C	3:S8:78:ARG:CG	2.65	0.74
11:a9:602:PRO:C	11:a9:604:ALA:N	2.41	0.74
11:aA:798:SER:OG	12:aA:901:CYC:CAA	2.35	0.74
3:J3:84:ARG:HH21	11:a9:670:LEU:HA	1.51	0.74
6:M2:32:MET:HA	8:O5:79:ALA:HB2	1.68	0.74
12:B3:202:CYC:HBA1	11:a9:684:ASN:HD22	1.53	0.74
3:B4:120:LEU:HD21	4:M4:52:LEU:CB	2.16	0.74
12:B4:202:CYC:HBB3	4:M4:61:ASN:CG	2.13	0.74
4:M3:77:LEU:HD12	4:M3:77:LEU:O	1.87	0.74
2:O3:33:ARG:NE	2:Y3:28:ASN:ND2	2.36	0.74
3:U4:115:GLU:OE1	4:M4:74:LEU:CD1	2.35	0.74
4:M4:29:PRO:CG	11:aA:226:PHE:C	2.49	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:E5:131:ARG:HG2	8:E5:157:VAL:HG21	1.68	0.74
8:G5:121:THR:HG21	12:G5:201:CYC:CHD	2.18	0.74
1:f5:18:TYR:CE2	10:j5:165:ARG:HG3	2.23	0.74
10:k5:194:CYS:HB2	12:k5:1201:CYC:HAC1	1.70	0.74
3:D6:59:LEU:HD22	3:D6:130:ALA:HB2	1.67	0.74
3:F6:127:VAL:N	12:F6:201:CYC:HMC2	2.03	0.74
8:g7:37:LEU:HD22	1:h7:24:LEU:HD21	1.70	0.74
12:j7:201:CYC:NB	9:y7:38:PHE:CE1	2.55	0.74
3:B8:120:LEU:CD2	4:M8:49:LEU:O	2.36	0.74
2:X8:69:PRO:CG	2:S9:38:MET:O	2.23	0.74
4:M8:27:HIS:O	11:a9:227:GLY:HA3	1.87	0.74
4:M8:51:ARG:HH11	4:M8:51:ARG:HB3	1.51	0.74
4:M9:53:LEU:HD13	12:F9:301:CYC:HB	0.76	0.74
5:N9:22:LEU:HD23	5:N9:26:LEU:CD1	1.83	0.74
11:aA:389:GLN:HA	11:aA:389:GLN:NE2	2.01	0.74
4:M1:50:ASP:OD1	4:M1:50:ASP:N	2.15	0.74
3:F2:78:ARG:CG	12:F2:201:CYC:O2D	2.36	0.74
5:Z4:37:HIS:HB2	12:Z4:301:CYC:C1B	2.18	0.74
1:P5:114:GLU:CD	10:k5:496:GLU:CB	2.61	0.74
1:V5:114:GLU:HG2	10:j5:496:GLU:OE2	1.86	0.74
8:W5:130:VAL:HG21	8:W5:160:MET:HE3	1.69	0.74
10:j5:1070:ALA:HB1	10:j5:1071:PRO:HD3	1.67	0.74
10:k5:193:SER:OG	12:k5:1201:CYC:O2D	2.05	0.74
3:F6:59:LEU:HD21	12:F6:201:CYC:H2C	1.70	0.74
8:g7:102:THR:CB	8:g7:103:PRO:CD	2.64	0.74
8:k7:76:LYS:HZ1	11:a9:605:PRO:HB3	0.78	0.74
8:u7:49:ARG:O	8:u7:49:ARG:HG2	1.87	0.74
3:U8:108:ARG:HA	4:M8:246:ALA:HB2	0.95	0.74
4:M9:51:ARG:HH11	4:M9:51:ARG:CB	2.01	0.74
5:N9:70:ILE:CG2	3:T9:119:ALA:CB	2.65	0.74
12:B9:201:CYC:HMA1	12:B9:201:CYC:HB	1.51	0.74
3:H9:116:THR:CB	11:a9:449:ASN:HD21	2.01	0.74
5:N1:20:ILE:HG21	5:N1:60:ILE:HD13	1.69	0.74
3:DA:111:ASN:OD1	4:MA:76:ALA:CB	2.36	0.74
3:HA:116:THR:CB	11:aA:449:ASN:HD21	2.01	0.74
12:LA:202:CYC:HMA1	11:aA:534:SER:CB	2.17	0.74
4:MA:77:LEU:HD12	4:MA:77:LEU:O	1.87	0.74
2:QA:67:THR:O	2:U1:46:SER:OG	2.06	0.74
3:J3:111:ASN:ND2	11:a9:631:GLY:CA	2.51	0.74
6:M2:39:ARG:CZ	8:O5:66:VAL:CG1	2.62	0.74
3:L3:119:ALA:C	11:a9:817:LEU:HD11	2.11	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N3:61:LYS:HZ2	12:R3:201:CYC:HBB2	1.51	0.74
4:M4:160:THR:CG2	4:M4:257:GLN:HB2	2.07	0.74
12:M4:301:CYC:HAC2	3:Y4:82:CYS:SG	2.27	0.74
8:A5:49:ARG:HH21	8:A5:140:LEU:CD2	2.00	0.74
1:f5:34:GLY:CA	10:j5:47:PHE:HD2	2.01	0.74
10:j5:362:LYS:CE	10:j5:363:HIS:HE2	1.99	0.74
10:j5:841:VAL:CG1	10:j5:846:GLU:OE1	2.33	0.74
10:j5:988:ALA:HB2	1:h7:106:GLU:OE2	1.85	0.74
10:k5:1054:SER:C	10:k5:1056:PRO:HD3	2.13	0.74
8:O7:161:GLN:HG2	1:F7:49:THR:HG21	1.70	0.74
1:H7:140:LEU:CD1	11:aA:561:ALA:HA	2.16	0.74
8:g7:35:ARG:HH22	8:g7:144:ASP:CB	2.00	0.74
8:i7:4:LEU:HD23	8:i7:26:ILE:HD13	1.68	0.74
8:c7:131:ARG:O	8:c7:131:ARG:HG3	1.87	0.74
9:w7:35:GLU:N	9:w7:35:GLU:OE1	2.20	0.74
4:M8:140:ARG:NE	4:M8:209:TYR:HE1	1.85	0.74
4:M8:230:GLN:NE2	12:M8:301:CYC:HMA2	2.02	0.74
11:a9:454:LEU:HD23	11:a9:535:ASP:OD2	1.88	0.74
11:aA:32:ARG:HH11	11:aA:32:ARG:HG3	1.53	0.74
11:aA:377:VAL:CG1	11:aA:390:ALA:HB1	2.17	0.74
11:aA:746:TYR:HB2	2:K1:14:SER:CA	2.18	0.74
4:M1:51:ARG:HH11	4:M1:51:ARG:CB	2.00	0.74
2:EA:33:ARG:CG	2:IA:25:GLN:OE1	2.33	0.74
2:G3:111:ALA:HB3	3:L3:77:ARG:NE	2.01	0.74
4:M4:222:ARG:HG3	4:M4:222:ARG:NH1	2.01	0.74
2:P4:19:LEU:HD11	3:Q4:95:TYR:CD1	2.22	0.74
1:L5:79:ALA:CB	8:G5:114:GLU:HB2	2.18	0.74
1:D5:87:TYR:CE2	9:z5:38:PHE:CE2	2.73	0.74
9:z5:11:ILE:CD1	9:z5:28:PHE:HE2	2.01	0.74
9:i5:2:SER:N	9:i5:67:VAL:O	2.21	0.74
10:k5:970:GLY:CA	1:n7:77:ARG:NH2	2.42	0.74
8:o7:49:ARG:HG2	8:o7:49:ARG:O	1.87	0.74
3:H8:119:ALA:C	11:a9:266:ASN:CG	2.55	0.74
3:H8:119:ALA:HB1	11:a9:266:ASN:CG	2.12	0.74
5:N9:1:MET:HA	5:N9:1:MET:CE	2.10	0.74
5:N9:61:LYS:NZ	12:T9:301:CYC:CBB	2.41	0.74
3:H9:120:LEU:CD1	12:H9:202:CYC:HAA2	2.18	0.74
11:aA:31:SER:HG	11:aA:34:ILE:CB	1.89	0.74
11:aA:640:ALA:HB1	11:aA:767:THR:HG22	1.68	0.74
3:H1:82:CYS:HB2	12:H1:201:CYC:C4C	2.18	0.74
4:MA:51:ARG:HH11	4:MA:51:ARG:CB	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QA:81:LYS:NZ	3:TA:67:ILE:CD1	2.51	0.74
2:QA:116:VAL:HG23	3:TA:80:ALA:CB	2.18	0.74
3:L3:104:VAL:CB	3:L3:108:ARG:HH22	2.00	0.74
3:L3:104:VAL:HG12	3:L3:108:ARG:HH12	1.52	0.74
3:H4:84:ARG:NE	11:aA:131:TYR:CG	2.40	0.74
4:M4:226:SER:HG	3:Y4:88:ILE:HG23	1.52	0.74
5:Z4:4:LEU:O	5:Z4:4:LEU:HG	1.88	0.74
1:D5:75:THR:HB	8:E5:112:VAL:HA	1.68	0.74
8:G5:49:ARG:HH21	8:G5:140:LEU:CD2	2.00	0.74
1:J5:87:TYR:HE2	9:i5:38:PHE:HE2	1.34	0.74
10:k5:963:ASP:OD1	10:k5:963:ASP:N	2.20	0.74
8:O7:35:ARG:HH22	8:O7:144:ASP:CB	2.00	0.74
8:Q7:19:SER:CB	8:C7:6:LYS:HZ1	2.00	0.74
1:h7:75:THR:CG2	8:i7:115:MET:HE2	2.17	0.74
8:i7:95:GLY:O	8:i7:152:TYR:HE2	1.71	0.74
8:m7:35:ARG:HH22	8:m7:144:ASP:CB	1.99	0.74
8:o7:5:THR:CB	1:p7:6:THR:HG21	2.18	0.74
9:z7:32:VAL:HG13	9:z7:37:TRP:HB2	1.69	0.74
4:M8:129:GLU:N	4:M8:142:PHE:CZ	2.56	0.74
12:O8:201:CYC:CMA	5:Z8:53:LEU:CD1	2.36	0.74
12:O8:201:CYC:HMA1	5:Z8:53:LEU:HD12	1.70	0.74
4:M9:134:ASN:HB2	12:R9:201:CYC:CAA	2.15	0.74
11:a9:98:ILE:HD12	11:a9:101:ASP:CB	2.15	0.74
11:a9:508:ARG:HB2	11:a9:513:GLN:NE2	2.02	0.74
11:aA:668:TYR:HB2	3:J1:84:ARG:HD3	1.68	0.74
4:M1:188:LEU:HD21	12:Z1:202:CYC:HB	1.52	0.74
4:M1:246:ALA:HA	12:X1:201:CYC:HBB2	1.69	0.74
2:IA:31:PHE:HE2	3:JA:31:VAL:HA	1.48	0.73
3:PA:59:LEU:HD22	3:PA:130:ALA:HB2	1.67	0.73
3:F4:108:ARG:O	4:M4:6:THR:HG21	1.87	0.73
4:M4:77:LEU:HD12	4:M4:77:LEU:O	1.87	0.73
4:M4:144:ARG:NH1	5:Z4:59:ARG:NH2	2.36	0.73
2:N4:33:ARG:NE	2:X4:28:ASN:ND2	2.35	0.73
3:Q4:77:ARG:N	5:Z4:34:LEU:HD13	2.03	0.73
8:C5:35:ARG:HH22	8:C5:144:ASP:CB	2.00	0.73
1:f5:19:LEU:HD11	10:j5:172:LEU:HD13	1.62	0.73
8:U5:29:PHE:HZ	8:U5:98:ALA:O	1.62	0.73
1:Z5:28:LYS:HZ1	1:t7:143:PRO:HG2	0.91	0.73
3:J6:108:ARG:HH21	6:M6:155:ASN:HB3	1.51	0.73
9:z5:2:SER:N	9:z5:67:VAL:O	2.21	0.73
9:i5:11:ILE:CD1	9:i5:28:PHE:HE2	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W7:13:ALA:HA	9:w7:46:LYS:CD	2.17	0.73
8:c7:8:ILE:HG23	1:d7:94:TYR:CG	2.23	0.73
8:c7:95:GLY:O	8:c7:152:TYR:HE2	1.71	0.73
2:E8:15:GLN:HG3	11:a9:163:ASP:OD2	1.88	0.73
8:o7:23:LEU:CD2	1:p7:38:VAL:CG1	2.66	0.73
9:z7:35:GLU:N	9:z7:35:GLU:OE1	2.20	0.73
4:M8:99:VAL:HG22	3:Q8:108:ARG:NH1	2.03	0.73
2:O9:63:PHE:CB	2:O9:66:LEU:CD1	2.56	0.73
12:D9:201:CYC:HMA1	12:D9:201:CYC:HB	1.51	0.73
11:a9:331:TYR:CA	11:a9:333:GLN:NE2	2.50	0.73
3:B2:59:LEU:HD22	3:B2:130:ALA:HB2	1.67	0.73
12:DA:201:CYC:HB	12:DA:201:CYC:HMA1	1.51	0.73
3:LA:112:GLY:CA	11:aA:532:ALA:HB3	2.17	0.73
12:LA:202:CYC:O1D	11:aA:538:ARG:CB	2.35	0.73
6:M2:39:ARG:HD3	8:O5:59:PHE:HB3	1.69	0.73
6:M2:50:LEU:CD2	8:i7:79:ALA:C	2.61	0.73
12:F3:201:CYC:HMA1	12:F3:201:CYC:HB	1.51	0.73
3:Z3:77:ARG:HE	4:M3:273:ILE:HG23	1.51	0.73
4:M3:130:SER:HA	12:P3:201:CYC:O2A	1.87	0.73
3:F4:107:ASP:O	4:M4:6:THR:HB	1.88	0.73
4:M4:232:VAL:CG1	3:Y4:109:CYS:O	2.35	0.73
8:Q5:130:VAL:HG21	8:Q5:160:MET:HE3	1.69	0.73
10:j5:199:THR:HG22	12:j5:1201:CYC:HBC2	1.70	0.73
10:j5:778:LYS:HZ1	12:L7:201:CYC:HBB2	1.51	0.73
10:j5:1118:THR:HG23	12:j5:1202:CYC:CGA	2.18	0.73
8:Q7:4:LEU:HD23	8:Q7:26:ILE:HD13	1.69	0.73
8:S7:4:LEU:HD23	8:S7:26:ILE:HD13	1.71	0.73
8:a7:37:LEU:HD22	1:b7:24:LEU:HD21	1.70	0.73
12:B8:202:CYC:HMB3	4:M8:57:THR:CG2	2.18	0.73
8:o7:103:PRO:HB2	1:p7:9:ILE:HG21	1.70	0.73
8:q7:75:GLU:HB3	11:aA:53:VAL:HG12	1.70	0.73
3:H8:111:ASN:OD1	11:a9:291:TYR:CZ	2.41	0.73
3:H8:119:ALA:C	11:a9:266:ASN:HB2	2.13	0.73
4:M8:139:VAL:HG21	4:M8:216:ASN:CA	2.15	0.73
11:a9:377:VAL:CG1	11:a9:390:ALA:HB1	2.17	0.73
11:aA:670:LEU:HD21	3:J1:80:ALA:CB	2.17	0.73
4:M1:51:ARG:HH11	4:M1:51:ARG:HB3	1.51	0.73
4:M1:146:LEU:HD23	4:M1:146:LEU:N	2.02	0.73
1:A:131:GLN:CD	1:R5:17:LYS:NZ	2.46	0.73
12:P1:201:CYC:O2A	4:M1:130:SER:HA	1.87	0.73
3:J3:80:ALA:CB	11:a9:670:LEU:HD21	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K3:28:ASN:ND2	2:A3:33:ARG:NE	2.36	0.73
3:B3:111:ASN:OD1	4:M3:76:ALA:HB3	1.87	0.73
12:B4:202:CYC:HHA	4:M4:54:ALA:N	2.04	0.73
3:B1:88:ILE:HG21	12:B1:202:CYC:CAB	2.18	0.73
3:B1:88:ILE:HG21	12:B1:202:CYC:HAB2	1.66	0.73
3:F4:109:CYS:CA	4:M4:6:THR:HG21	2.12	0.73
3:H4:119:ALA:C	11:aA:266:ASN:CG	2.56	0.73
5:Z4:24:PRO:HG3	12:Z4:301:CYC:O2A	1.87	0.73
1:F5:119:LEU:CD2	10:k5:546:PHE:CD2	2.71	0.73
8:A7:86:ASP:HB2	11:aA:579:PHE:CZ	2.23	0.73
8:G7:4:LEU:HD23	8:G7:26:ILE:HD13	1.71	0.73
8:g7:56:ASP:OD1	11:aA:325:LEU:CD1	2.35	0.73
8:o7:30:VAL:HG12	1:p7:31:PHE:HD1	1.53	0.73
4:M8:126:THR:CA	12:M8:302:CYC:O2A	2.36	0.73
4:M8:205:ASP:OD2	5:Z8:59:ARG:CD	2.35	0.73
4:M9:274:VAL:CG2	2:W9:111:ALA:HB3	2.18	0.73
2:O9:33:ARG:NE	2:Y9:28:ASN:ND2	2.35	0.73
11:a9:32:ARG:HG3	11:a9:32:ARG:HH11	1.53	0.73
11:aA:602:PRO:C	11:aA:604:ALA:N	2.41	0.73
11:aA:667:THR:HG22	11:aA:800:THR:HG22	1.69	0.73
2:AA:59:VAL:O	2:AA:66:LEU:HD12	1.88	0.73
3:LA:52:ILE:CD1	3:LA:87:GLU:CG	2.61	0.73
3:LA:97:LEU:HD12	3:LA:97:LEU:C	2.13	0.73
2:A3:59:VAL:O	2:A3:66:LEU:HD12	1.88	0.73
3:Z3:111:ASN:HD21	4:M3:258:LYS:HZ2	0.75	0.73
3:L3:120:LEU:HD21	11:a9:731:GLN:HG2	1.70	0.73
2:N4:112:GLY:N	5:Z4:34:LEU:N	2.37	0.73
10:j5:320:GLU:HA	10:j5:333:PHE:CE1	2.24	0.73
8:c7:4:LEU:HD23	8:c7:26:ILE:HD13	1.69	0.73
8:o7:27:LYS:CD	1:p7:35:ALA:CA	2.58	0.73
8:u7:30:VAL:HG12	1:v7:31:PHE:HD1	1.53	0.73
9:w7:32:VAL:HG13	9:w7:37:TRP:HB2	1.69	0.73
2:X8:108:TYR:CE1	4:M8:273:ILE:HD12	2.22	0.73
3:F8:107:ASP:HA	4:M8:8:SER:N	1.99	0.73
12:M8:302:CYC:C1C	3:S8:78:ARG:CG	2.66	0.73
3:S8:116:THR:HG23	3:S8:117:TYR:N	2.04	0.73
12:L9:202:CYC:O1D	11:a9:538:ARG:CB	2.36	0.73
3:Y8:89:ILE:CG2	3:Y8:92:TYR:HH	1.76	0.73
2:A9:59:VAL:O	2:A9:66:LEU:HD12	1.88	0.73
11:a9:95:ILE:HD11	11:a9:237:PHE:CZ	2.24	0.73
11:a9:274:LEU:C	11:a9:278:LEU:HD11	2.12	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:710:THR:CB	11:a9:807:GLN:HB3	2.18	0.73
3:HA:82:CYS:SG	12:HA:202:CYC:HAC1	2.27	0.73
2:A4:33:ARG:NE	2:K4:28:ASN:ND2	2.35	0.73
3:H4:111:ASN:OD1	11:aA:291:TYR:CZ	2.41	0.73
4:M4:95:ALA:O	3:Q4:88:ILE:HG21	1.89	0.73
12:R5:201:CYC:HBB2	10:k5:520:ARG:CG	2.19	0.73
10:j5:501:ILE:H	10:j5:501:ILE:HD12	1.52	0.73
10:j5:1077:ILE:O	12:r7:201:CYC:CBA	2.36	0.73
10:k5:370:GLU:N	10:k5:374:GLU:OE1	2.21	0.73
8:k7:4:LEU:HD23	8:k7:26:ILE:HD13	1.71	0.73
8:k7:90:ARG:HD3	1:l7:18:TYR:CD1	2.24	0.73
8:c7:8:ILE:CG2	1:d7:94:TYR:CG	2.72	0.73
12:D8:202:CYC:CGA	4:M8:35:THR:CB	2.55	0.73
9:w7:23:LEU:HD12	9:w7:23:LEU:O	1.89	0.73
3:H8:119:ALA:CA	11:a9:266:ASN:CB	2.66	0.73
2:O9:59:VAL:O	2:O9:66:LEU:HD12	1.89	0.73
5:Z8:5:THR:O	5:Z8:5:THR:CG2	2.37	0.73
5:Z8:20:ILE:HG21	5:Z8:60:ILE:HD13	1.69	0.73
11:aA:731:GLN:HG2	3:L1:120:LEU:HD21	1.70	0.73
4:M1:77:LEU:HD12	4:M1:77:LEU:O	1.87	0.73
1:A:18:TYR:CE2	8:a5:90:ARG:HA	2.23	0.73
4:MA:274:VAL:CG2	2:WA:111:ALA:HB3	2.18	0.73
12:J3:202:CYC:CAA	11:a9:798:SER:OG	2.36	0.73
2:K3:14:SER:CA	11:a9:746:TYR:HB2	2.17	0.73
2:C3:140:SER:HB2	3:D8:150:ARG:NH1	2.03	0.73
12:Z3:201:CYC:NB	4:M3:188:LEU:HD21	2.04	0.73
3:B4:120:LEU:HD11	4:M4:53:LEU:HA	1.62	0.73
3:L3:119:ALA:C	11:a9:817:LEU:CD1	2.60	0.73
2:O3:59:VAL:O	2:O3:66:LEU:HD12	1.89	0.73
2:U3:47:ASN:CB	2:Q9:74:TYR:OH	2.34	0.73
3:H4:119:ALA:HB1	11:aA:266:ASN:CG	2.13	0.73
3:H4:119:ALA:CA	11:aA:266:ASN:CB	2.65	0.73
4:M4:94:TRP:CZ3	3:Q4:88:ILE:HA	2.23	0.73
1:L5:69:GLY:N	1:H5:14:VAL:O	2.21	0.73
1:B5:87:TYR:CE1	9:z5:20:GLY:HA2	2.23	0.73
9:z5:22:GLU:C	9:z5:25:ASN:N	2.43	0.73
10:j5:283:ARG:N	10:j5:283:ARG:HD3	2.01	0.73
10:j5:1147:TYR:CD2	11:aA:39:PRO:HB3	2.23	0.73
10:k5:194:CYS:HB2	12:k5:1201:CYC:HAC2	1.71	0.73
10:k5:283:ARG:HB2	10:k5:284:PRO:CD	2.18	0.73
10:k5:320:GLU:HA	10:k5:333:PHE:HE1	1.50	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i7:114:GLU:N	8:i7:114:GLU:OE1	2.22	0.73
8:k7:52:LYS:HE3	11:a9:56:ILE:HG21	1.69	0.73
1:Z7:67:ARG:HH12	11:a9:307:ARG:CG	2.01	0.73
8:a7:63:PRO:HG2	11:a9:334:LYS:HA	1.68	0.73
1:f7:67:ARG:HH11	11:aA:311:LEU:HD13	1.53	0.73
8:o7:4:LEU:HD23	8:o7:26:ILE:HD13	1.69	0.73
2:X8:57:GLN:O	3:T9:32:LYS:NZ	2.22	0.73
4:M8:29:PRO:HG3	11:a9:226:PHE:C	2.13	0.73
4:M8:140:ARG:NH2	4:M8:210:ILE:HG12	2.02	0.73
4:M8:146:LEU:HD23	4:M8:146:LEU:N	2.02	0.73
4:M8:205:ASP:CG	5:Z8:59:ARG:HE	1.96	0.73
2:P8:18:PHE:H	3:Q8:91:ARG:NH2	1.85	0.73
4:M9:76:ALA:CB	3:D9:111:ASN:OD1	2.36	0.73
11:aA:61:TYR:CD1	11:aA:65:LEU:HD22	2.20	0.73
11:aA:316:GLY:HA2	11:aA:319:LEU:HB2	1.68	0.73
11:aA:371:VAL:CG1	11:aA:507:PHE:HB2	2.18	0.73
11:aA:414:ALA:HB1	11:aA:428:PHE:CE1	2.23	0.73
2:EA:152:ALA:HB1	2:IA:21:ASN:ND2	2.02	0.73
12:QA:201:CYC:O2D	3:TA:57:HIS:NE2	2.21	0.73
3:B1:88:ILE:HD13	12:B1:202:CYC:C4B	2.17	0.73
3:H4:84:ARG:HD2	11:aA:131:TYR:CG	2.14	0.73
8:A5:121:THR:HG21	12:A5:201:CYC:CHD	2.18	0.73
8:G5:64:ASP:OD2	8:U5:69:GLY:C	2.31	0.73
8:G5:161:GLN:CD	1:T5:49:THR:HG22	2.14	0.73
1:d5:53:LYS:CD	8:e5:118:SER:O	2.34	0.73
8:U5:87:TYR:CE2	6:M6:26:PHE:CG	2.68	0.73
2:K6:28:ASN:ND2	2:A6:33:ARG:NE	2.36	0.73
6:M6:271:VAL:CG2	1:d7:127:VAL:HG11	2.18	0.73
10:j5:1043:GLU:OE1	8:e7:14:GLU:HG2	1.88	0.73
10:j5:1119:LEU:HD13	1:t7:87:TYR:OH	1.89	0.73
10:j5:1144:SER:HB3	1:r7:13:ASP:OD2	1.88	0.73
8:S7:90:ARG:HD3	1:T7:18:TYR:CD1	2.24	0.73
8:I7:25:ARG:NH2	8:W7:25:ARG:HB3	1.90	0.73
8:i7:94:TYR:CG	1:j7:9:ILE:HG21	2.22	0.73
8:u7:16:ARG:O	1:v7:94:TYR:HE1	1.70	0.73
8:u7:30:VAL:HA	1:v7:31:PHE:HD1	1.50	0.73
2:X8:28:ASN:ND2	2:N8:33:ARG:NE	2.35	0.73
3:F8:1:MET:N	4:M8:10:ARG:HB3	2.03	0.73
3:L9:77:ARG:CZ	11:a9:538:ARG:NH2	2.52	0.73
2:E9:152:ALA:HB1	2:I9:21:ASN:ND2	2.02	0.73
11:a9:439:ARG:HG3	11:a9:439:ARG:HH11	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:454:LEU:HD23	11:aA:535:ASP:OD2	1.88	0.73
11:aA:813:PRO:CA	3:L1:119:ALA:CB	2.67	0.73
3:LA:115:GLU:N	3:LA:115:GLU:OE1	2.22	0.73
2:QA:76:ASP:H	2:U1:141:GLN:HA	1.53	0.73
2:O1:33:ARG:NE	2:Y1:28:ASN:ND2	2.36	0.73
2:O1:59:VAL:O	2:O1:66:LEU:HD12	1.89	0.73
2:O1:63:PHE:HB2	2:O1:66:LEU:HD12	1.70	0.73
3:J2:108:ARG:HH21	6:M2:155:ASN:HB3	1.51	0.73
6:M2:37:GLU:OE2	8:O5:59:PHE:CE2	2.41	0.73
6:M2:57:GLU:OE1	8:i7:76:LYS:HD2	1.87	0.73
6:M2:128:LEU:HG	12:F2:201:CYC:OB	1.89	0.73
3:B4:68:ARG:HH12	3:U4:68:ARG:HH22	1.37	0.73
3:B4:108:ARG:C	4:M4:61:ASN:CA	2.62	0.73
4:M3:146:LEU:HD23	4:M3:146:LEU:N	2.02	0.73
4:M3:269:SER:HA	3:V3:111:ASN:HD22	1.54	0.73
5:N3:39:PRO:CB	3:T3:113:LEU:HA	2.15	0.73
3:H4:119:ALA:HB3	11:aA:266:ASN:HD22	0.56	0.73
5:Z4:1:MET:HE3	5:Z4:1:MET:CA	2.17	0.73
8:A5:118:SER:CB	1:F5:82:ILE:CD1	2.67	0.73
1:b5:5:ILE:HD12	10:k5:46:PHE:HE1	1.52	0.73
10:j5:722:ILE:HD11	8:K7:82:LEU:HD12	1.71	0.73
10:j5:868:ASP:C	9:w7:43:ARG:CD	2.61	0.73
10:k5:74:ARG:O	10:k5:74:ARG:HG3	1.89	0.73
10:k5:902:ASN:O	10:k5:902:ASN:ND2	2.16	0.73
10:k5:1119:LEU:HD11	12:k5:1204:CYC:HBB3	1.69	0.73
8:E7:4:LEU:HD23	8:E7:26:ILE:HD13	1.69	0.73
8:G7:90:ARG:HD3	1:H7:18:TYR:CD1	2.24	0.73
8:s7:29:PHE:HE1	8:s7:98:ALA:O	1.69	0.73
9:z7:23:LEU:O	9:z7:23:LEU:HD12	1.89	0.73
12:H8:201:CYC:HMA1	11:a9:261:SER:HB3	1.70	0.73
3:O8:107:ASP:CA	5:Z8:66:ARG:HB2	2.19	0.73
4:M9:133:ARG:HD2	12:R9:201:CYC:CGA	2.19	0.73
5:N9:70:ILE:CG2	3:T9:119:ALA:HB3	2.19	0.73
5:Z8:1:MET:HE3	5:Z8:1:MET:CA	2.17	0.73
5:Z8:50:LEU:C	5:Z8:50:LEU:HD12	2.14	0.73
2:K9:12:ALA:O	2:K9:16:GLY:N	2.22	0.73
11:aA:107:ARG:HG3	11:aA:108:PRO:CD	2.18	0.73
5:N1:50:LEU:C	5:N1:50:LEU:HD12	2.14	0.73
2:A2:59:VAL:O	2:A2:66:LEU:HD12	1.89	0.73
1:A:31:PHE:HE2	8:a5:37:LEU:HD11	1.54	0.73
3:J3:107:ASP:OD1	11:a9:632:ILE:CG1	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F4:115:GLU:CG	4:M4:3:VAL:HG21	2.16	0.73
4:M4:146:LEU:HD23	4:M4:146:LEU:N	2.02	0.73
8:E5:77:MET:O	12:E5:201:CYC:HMD1	1.89	0.73
8:G5:126:VAL:HG22	12:G5:201:CYC:C3C	2.12	0.73
8:c5:90:ARG:HD3	1:d5:18:TYR:CD1	2.24	0.73
1:f5:6:THR:CG2	10:j5:19:THR:OG1	2.36	0.73
8:Q5:18:LEU:HD22	1:R5:97:LEU:CD1	2.19	0.73
8:S5:4:LEU:HD23	8:S5:26:ILE:HD13	1.71	0.73
10:j5:306:GLU:OE2	10:j5:362:LYS:NZ	2.19	0.73
10:j5:385:PRO:O	10:j5:386:ILE:C	2.23	0.73
10:j5:1015:TYR:CE2	10:j5:1048:ARG:NH2	2.57	0.73
8:M7:4:LEU:HD23	8:M7:26:ILE:HD13	1.71	0.73
8:q7:4:LEU:HD23	8:q7:26:ILE:HD13	1.71	0.73
3:U8:120:LEU:HD11	12:U8:201:CYC:CGD	2.19	0.73
4:M8:231:THR:CA	12:M8:301:CYC:HBB2	2.18	0.73
2:N8:60:TYR:HB3	2:N8:67:THR:CG2	2.19	0.73
2:A9:33:ARG:NE	2:K9:28:ASN:ND2	2.36	0.73
11:aA:331:TYR:CA	11:aA:333:GLN:NE2	2.50	0.73
11:aA:629:LYS:HA	11:aA:629:LYS:CE	2.19	0.73
1:Z:16:GLY:HA2	8:e5:90:ARG:CZ	2.19	0.73
3:HA:120:LEU:CD1	12:HA:202:CYC:HAA1	1.99	0.73
3:JA:70:GLY:HA2	11:aA:357:THR:C	2.10	0.73
3:D4:150:ARG:NH1	2:C1:140:SER:HB2	2.03	0.73
4:M4:29:PRO:HG3	11:aA:226:PHE:O	1.88	0.73
4:M4:144:ARG:CZ	4:M4:204:ILE:HG22	2.19	0.73
8:S5:107:ILE:HD13	1:T5:13:ASP:CG	2.14	0.73
10:j5:449:ARG:HG3	10:j5:449:ARG:NH2	1.98	0.73
10:k5:195:SER:O	10:k5:199:THR:HG23	1.89	0.73
10:k5:930:LEU:CB	1:D7:33:THR:HG21	2.18	0.73
10:k5:990:ARG:NH2	10:k5:1026:LYS:NZ	2.31	0.73
2:A6:59:VAL:O	2:A6:66:LEU:HD12	1.89	0.73
8:k7:66:VAL:O	11:a9:65:LEU:HD21	1.89	0.73
1:V7:76:ARG:HB2	8:W7:110:ILE:HG13	1.70	0.73
2:A8:60:TYR:HB3	2:A8:67:THR:CG2	2.19	0.73
3:B8:82:CYS:HA	12:B8:202:CYC:OC	1.86	0.73
4:M8:226:SER:OG	3:Y8:88:ILE:CG1	2.36	0.73
2:A9:60:TYR:HB3	2:A9:67:THR:CG2	2.19	0.73
3:J9:109:CYS:O	11:a9:518:ALA:CB	2.33	0.73
11:a9:414:ALA:HB1	11:a9:428:PHE:CE1	2.23	0.73
2:A2:60:TYR:HB3	2:A2:67:THR:CG2	2.19	0.73
3:FA:36:LYS:C	3:FA:156:LEU:HD21	2.14	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FA:148:VAL:HG11	12:F9:302:CYC:CHD	2.19	0.72
3:LA:120:LEU:HD23	11:aA:539:GLY:N	2.04	0.72
4:MA:274:VAL:H	3:VA:77:ARG:HG2	1.49	0.72
3:L2:75:PRO:HD2	3:L2:78:ARG:CB	2.15	0.72
2:A4:63:PHE:HB2	2:A4:66:LEU:HD12	1.70	0.72
3:F4:109:CYS:C	4:M4:6:THR:HG23	2.11	0.72
4:M4:27:HIS:HE1	4:M4:34:ASP:CA	1.80	0.72
4:M4:29:PRO:HB2	11:aA:225:VAL:O	1.84	0.72
4:M4:104:ALA:HB2	2:P4:14:SER:H	1.50	0.72
5:Z4:50:LEU:C	5:Z4:50:LEU:HD12	2.14	0.72
6:M6:273:PHE:HE1	1:d7:128:GLY:HA2	1.53	0.72
10:j5:1077:ILE:O	12:r7:201:CYC:HBA2	1.88	0.72
10:k5:320:GLU:HA	10:k5:333:PHE:CE1	2.24	0.72
10:k5:387:VAL:O	10:k5:394:PRO:CB	2.37	0.72
10:k5:990:ARG:HH21	10:k5:1026:LYS:HZ2	1.37	0.72
1:B7:136:VAL:HA	11:a9:563:PHE:HZ	1.53	0.72
12:B8:202:CYC:HMA1	12:B8:202:CYC:NB	2.05	0.72
8:m7:29:PHE:HE1	8:m7:98:ALA:O	1.69	0.72
4:M8:104:ALA:CB	2:P8:14:SER:H	1.98	0.72
3:L9:115:GLU:N	3:L9:115:GLU:OE1	2.22	0.72
11:a9:48:LEU:HD12	11:a9:48:LEU:C	2.14	0.72
11:a9:371:VAL:CG1	11:a9:507:PHE:HB2	2.18	0.72
11:a9:594:ARG:HG3	11:a9:594:ARG:NH1	2.01	0.72
11:aA:95:ILE:HD11	11:aA:237:PHE:CZ	2.24	0.72
11:aA:817:LEU:CD1	3:L1:119:ALA:C	2.60	0.72
2:GA:14:SER:O	11:aA:482:TYR:HB3	1.89	0.72
5:NA:50:LEU:C	5:NA:50:LEU:HD12	2.14	0.72
5:NA:61:LYS:NZ	12:TA:301:CYC:CBB	2.41	0.72
5:NA:70:ILE:CG2	3:TA:119:ALA:HB3	2.19	0.72
2:T4:111:ALA:HB1	4:M4:87:ILE:HG21	1.70	0.72
3:Q4:120:LEU:HD23	5:Z4:42:SER:HB2	1.60	0.72
1:L5:82:ILE:CD1	8:G5:118:SER:CB	2.67	0.72
1:N5:87:TYR:OH	10:k5:483:PHE:CE2	2.41	0.72
8:A5:106:GLU:OE2	10:k5:559:THR:HA	1.88	0.72
8:G5:4:LEU:HD23	8:G5:26:ILE:HD13	1.71	0.72
8:U5:75:GLU:HB2	6:M6:43:TRP:HE1	1.50	0.72
8:Y5:4:LEU:HD23	8:Y5:26:ILE:HD13	1.71	0.72
8:Y5:90:ARG:HD3	1:Z5:18:TYR:CD1	2.24	0.72
1:b5:34:GLY:CA	10:k5:47:PHE:CD2	2.69	0.72
6:M6:104:ARG:HD3	2:G6:15:GLN:HA	1.72	0.72
6:M6:271:VAL:HG23	1:d7:127:VAL:HG11	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:289:SER:HB3	10:j5:292:GLU:CD	2.14	0.72
10:k5:1015:TYR:CE2	10:k5:1048:ARG:NH2	2.57	0.72
8:O7:12:ASP:OD1	1:P7:91:TYR:CZ	2.43	0.72
4:M8:200:ILE:HB	5:Z8:52:ARG:NH2	2.03	0.72
12:M8:302:CYC:OC	3:S8:78:ARG:CZ	2.37	0.72
2:N8:115:GLU:OE1	5:Z8:32:PRO:HD2	1.87	0.72
3:Q8:84:ARG:CD	5:Z8:31:TRP:NE1	2.51	0.72
2:O9:60:TYR:HB3	2:O9:67:THR:CG2	2.19	0.72
12:H9:202:CYC:NB	11:a9:474:PHE:CZ	2.57	0.72
11:a9:312:ASP:CB	11:a9:315:LEU:HD12	2.16	0.72
11:aA:668:TYR:CB	3:J1:84:ARG:HD3	2.19	0.72
11:aA:800:THR:HG22	12:aA:901:CYC:HAA1	1.52	0.72
4:M1:269:SER:HA	3:V1:111:ASN:HD22	1.54	0.72
3:FA:68:ARG:CZ	3:ZA:68:ARG:HH12	1.95	0.72
4:MA:172:HIS:HE1	4:MA:249:ASP:OD2	1.73	0.72
3:TA:32:LYS:NZ	2:X4:57:GLN:O	2.22	0.72
2:A1:59:VAL:O	2:A1:66:LEU:HD12	1.88	0.72
2:A1:60:TYR:HB3	2:A1:67:THR:CG2	2.19	0.72
6:M2:164:GLU:OE1	6:M2:258:VAL:HG22	1.89	0.72
3:B1:84:ARG:NH1	12:B1:202:CYC:O2A	2.22	0.72
12:H4:201:CYC:OB	11:aA:129:ASN:HB3	1.89	0.72
3:L4:68:ARG:HH11	11:aA:75:ALA:HB3	1.51	0.72
1:L5:106:GLU:HG3	9:i5:58:THR:CG2	2.19	0.72
8:G5:122:PRO:CG	12:G5:201:CYC:OC	2.36	0.72
1:d5:28:LYS:CE	1:n7:143:PRO:HB2	2.07	0.72
8:W5:18:LEU:HD22	1:X5:97:LEU:CD1	2.19	0.72
8:A7:90:ARG:HD3	1:B7:18:TYR:CD1	2.24	0.72
10:j5:503:LYS:O	10:j5:503:LYS:HG2	1.87	0.72
10:k5:1034:GLU:CD	10:k5:1037:ARG:NH2	2.48	0.72
8:S7:120:GLN:HG3	1:X7:53:LYS:HZ1	1.54	0.72
8:K7:4:LEU:HD23	8:K7:26:ILE:HD13	1.69	0.72
8:M7:90:ARG:HD3	1:N7:18:TYR:CD1	2.24	0.72
8:i7:131:ARG:HH11	8:i7:131:ARG:CG	2.03	0.72
8:a7:33:GLY:CA	1:b7:31:PHE:CE2	2.71	0.72
8:s7:12:ASP:OD1	1:t7:91:TYR:CZ	2.43	0.72
3:L9:120:LEU:HD23	11:a9:539:GLY:N	2.04	0.72
3:H9:113:LEU:HD22	12:H9:202:CYC:HMB1	1.69	0.72
5:N1:1:MET:HE3	5:N1:1:MET:CA	2.17	0.72
2:AA:60:TYR:HB3	2:AA:67:THR:CG2	2.19	0.72
3:HA:120:LEU:CD1	12:HA:202:CYC:HAA2	2.19	0.72
4:MA:81:ASP:N	3:ZA:111:ASN:ND2	2.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:NA:4:LEU:O	5:NA:4:LEU:HG	1.88	0.72
2:OA:60:TYR:OH	2:OA:79:GLN:HG2	1.90	0.72
2:O1:60:TYR:HB3	2:O1:67:THR:CG2	2.19	0.72
2:K2:28:ASN:ND2	2:A2:33:ARG:NE	2.36	0.72
6:M2:34:ARG:HG2	8:O5:52:LYS:HD2	1.70	0.72
7:N2:1:MET:H1	7:N2:1:MET:HE2	1.54	0.72
3:B1:91:ARG:NH2	11:aA:677:GLN:CD	2.47	0.72
3:F4:88:ILE:HG12	11:aA:140:GLN:NE2	2.03	0.72
4:M4:27:HIS:ND1	4:M4:34:ASP:CA	2.47	0.72
12:O4:201:CYC:HMA1	12:O4:201:CYC:NB	2.05	0.72
8:M5:107:ILE:HD13	1:N5:13:ASP:CG	2.14	0.72
5:Z4:39:PRO:CD	12:Z4:301:CYC:HHD	2.19	0.72
5:Z4:39:PRO:HD3	12:Z4:301:CYC:HHD	1.71	0.72
8:A5:115:MET:HE1	12:A5:201:CYC:C2B	2.19	0.72
8:A5:121:THR:HG21	12:A5:201:CYC:C4C	2.20	0.72
1:T5:110:ASN:HD21	10:j5:692:LEU:C	1.94	0.72
10:j5:275:THR:HG21	10:j5:286:VAL:O	1.89	0.72
10:j5:990:ARG:NH2	10:j5:1026:LYS:NZ	2.31	0.72
10:k5:275:THR:HG21	10:k5:286:VAL:O	1.89	0.72
10:k5:929:PRO:CG	1:D7:147:LYS:CE	2.65	0.72
10:k5:1052:PRO:HA	1:l7:106:GLU:CG	2.20	0.72
8:c7:114:GLU:N	8:c7:114:GLU:OE1	2.22	0.72
8:e7:4:LEU:HD23	8:e7:26:ILE:HD13	1.71	0.72
2:A8:59:VAL:O	2:A8:66:LEU:HD12	1.89	0.72
2:A8:60:TYR:OH	2:A8:79:GLN:HG2	1.90	0.72
8:m7:12:ASP:OD1	1:n7:91:TYR:CZ	2.43	0.72
1:v7:62:TYR:CB	11:aA:601:ALA:HB1	2.19	0.72
3:H8:81:ALA:HB2	3:H8:84:ARG:NH2	2.03	0.72
12:N8:201:CYC:HBB2	3:Q8:75:PRO:HB2	1.69	0.72
11:aA:710:THR:CB	11:aA:807:GLN:HB3	2.18	0.72
4:M1:163:ASN:HD21	12:Z1:202:CYC:HMA1	1.54	0.72
2:AA:60:TYR:OH	2:AA:79:GLN:HG2	1.90	0.72
3:FA:68:ARG:CZ	3:ZA:68:ARG:NH2	2.53	0.72
4:MA:58:TYR:CZ	11:aA:496:ARG:NH2	2.58	0.72
4:MA:133:ARG:HD2	12:RA:201:CYC:CGA	2.19	0.72
4:MA:160:THR:HG21	4:MA:257:GLN:HB3	1.72	0.72
6:M2:26:PHE:HZ	8:O5:90:ARG:HE	1.36	0.72
2:A3:60:TYR:HB3	2:A3:67:THR:CG2	2.19	0.72
3:O4:88:ILE:HD11	5:Z4:54:LEU:HD11	1.71	0.72
8:M5:90:ARG:NH1	1:N5:16:GLY:HA2	2.05	0.72
8:U5:102:THR:CB	8:U5:103:PRO:CD	2.64	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X5:144:ASP:CB	8:a5:38:ARG:NH2	2.51	0.72
6:M6:67:GLY:HA3	3:H6:14:LEU:HD22	1.71	0.72
6:M6:117:MET:HE1	3:H6:77:ARG:NH1	1.97	0.72
10:j5:192:LYS:HA	10:j5:192:LYS:CE	2.19	0.72
10:k5:66:MET:HA	10:k5:66:MET:CE	2.16	0.72
8:U7:52:LYS:CE	11:a9:29:ARG:NH1	2.37	0.72
3:U8:115:GLU:HB2	4:M8:74:LEU:CG	2.17	0.72
2:N8:59:VAL:O	2:N8:66:LEU:HD12	1.88	0.72
3:Q8:84:ARG:HD2	5:Z8:31:TRP:CD1	2.24	0.72
5:N9:54:LEU:HD13	3:T9:84:ARG:HH21	1.53	0.72
5:Z8:22:LEU:HD11	5:Z8:26:LEU:HD21	1.71	0.72
12:D9:201:CYC:CBA	11:a9:420:ASN:HB2	2.19	0.72
11:a9:426:ARG:HD2	11:a9:490:ILE:CG2	2.20	0.72
4:M1:172:HIS:HE1	4:M1:249:ASP:OD2	1.73	0.72
4:M1:181:GLN:HE22	3:Z1:120:LEU:HD21	1.52	0.72
2:A2:60:TYR:OH	2:A2:79:GLN:HG2	1.90	0.72
2:OA:60:TYR:HB3	2:OA:67:THR:CG2	2.19	0.72
3:J3:87:GLU:O	3:J3:91:ARG:HG3	1.90	0.72
12:Z3:201:CYC:HMA1	4:M3:163:ASN:HD21	1.54	0.72
3:B1:115:GLU:CD	4:M1:76:ALA:O	2.33	0.72
12:S4:201:CYC:HC	12:S4:201:CYC:CMD	1.98	0.72
3:F4:84:ARG:HD2	11:aA:139:ILE:CG2	2.00	0.72
5:Z4:20:ILE:HG21	5:Z4:60:ILE:HD13	1.69	0.72
8:A5:115:MET:HE1	12:A5:201:CYC:CHB	2.18	0.72
1:P5:105:ASP:OD2	1:b5:113:LYS:HE2	1.89	0.72
8:A7:4:LEU:HD23	8:A7:26:ILE:HD13	1.71	0.72
10:j5:203:LEU:HA	10:j5:206:MET:HE3	1.72	0.72
10:j5:1119:LEU:HD22	1:t7:87:TYR:CZ	2.24	0.72
10:k5:192:LYS:HA	10:k5:192:LYS:CE	2.19	0.72
1:B7:54:GLU:OE2	11:a9:563:PHE:CB	2.37	0.72
8:C7:12:ASP:OD1	1:D7:91:TYR:CZ	2.42	0.72
3:L8:86:MET:SD	12:a9:901:CYC:HBC1	2.28	0.72
4:M9:172:HIS:HE1	4:M9:249:ASP:OD2	1.73	0.72
3:J9:87:GLU:O	3:J9:91:ARG:HG3	1.90	0.72
11:a9:275:THR:HA	11:a9:278:LEU:HD11	0.86	0.72
11:a9:629:LYS:HA	11:a9:629:LYS:CE	2.19	0.72
3:FA:37:ARG:CZ	3:FA:159:GLU:OE1	2.37	0.72
4:MA:4:LEU:O	4:MA:4:LEU:HD12	1.90	0.72
5:NA:1:MET:HB3	5:NA:3:VAL:CG2	2.15	0.72
12:R1:201:CYC:OB	5:N1:54:LEU:CD1	2.37	0.72
2:A1:60:TYR:OH	2:A1:79:GLN:HG2	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I3:15:GLN:HG2	11:a9:654:ALA:HB2	1.70	0.72
2:A4:59:VAL:O	2:A4:66:LEU:HD12	1.89	0.72
3:H4:119:ALA:C	11:aA:266:ASN:HB2	2.12	0.72
3:H4:119:ALA:HB1	11:aA:266:ASN:ND2	1.99	0.72
12:H4:201:CYC:HBB3	11:aA:259:ALA:CA	2.20	0.72
2:N4:59:VAL:O	2:N4:66:LEU:HD12	1.89	0.72
1:B5:10:ASN:CG	10:k5:557:VAL:CB	2.41	0.72
8:G5:121:THR:HG21	12:G5:201:CYC:C4C	2.20	0.72
1:J5:71:MEN:HA	1:J5:77:ARG:HH12	0.89	0.72
1:V5:68:PRO:HB3	1:X5:13:ASP:O	1.89	0.72
1:X5:86:ASP:OD2	1:X5:90:ARG:NE	2.19	0.72
6:M6:283:VAL:HG12	8:Y7:75:GLU:CG	2.18	0.72
10:j5:370:GLU:N	10:j5:374:GLU:OE1	2.21	0.72
10:j5:387:VAL:O	10:j5:394:PRO:CB	2.37	0.72
8:g7:29:PHE:HE1	8:g7:98:ALA:O	1.69	0.72
8:i7:124:PRO:O	8:i7:125:ALA:O	2.07	0.72
8:k7:76:LYS:HZ3	11:a9:604:ALA:CB	2.02	0.72
8:a7:48:GLU:HA	11:a9:318:TRP:CZ3	2.19	0.72
8:a7:56:ASP:OD1	11:a9:325:LEU:CD1	2.37	0.72
3:H8:119:ALA:HB3	11:a9:266:ASN:HD22	0.56	0.72
4:M8:15:PHE:HD1	4:M8:71:PRO:HA	1.55	0.72
12:O8:201:CYC:CGA	5:Z8:50:LEU:HD13	2.19	0.72
4:M9:58:TYR:CZ	11:a9:496:ARG:NH2	2.57	0.72
5:N9:22:LEU:HD11	5:N9:26:LEU:HD21	1.71	0.72
5:N9:54:LEU:H	12:T9:301:CYC:CBA	1.99	0.72
3:J9:68:ARG:HD2	11:a9:353:ALA:HB1	1.71	0.72
4:M1:268:ARG:C	3:V1:111:ASN:ND2	2.48	0.72
4:MA:15:PHE:HD1	4:MA:71:PRO:HA	1.54	0.72
12:RA:201:CYC:HMA1	12:RA:201:CYC:NB	2.05	0.72
3:XA:87:GLU:O	3:XA:91:ARG:HG3	1.90	0.72
2:A3:60:TYR:OH	2:A3:79:GLN:HG2	1.90	0.72
3:L3:111:ASN:O	11:a9:711:SER:HB3	1.89	0.72
5:N3:1:MET:HA	5:N3:1:MET:CE	2.10	0.72
8:K5:77:MET:O	12:K5:201:CYC:CMD	2.37	0.72
1:N5:53:LYS:CE	8:O5:120:GLN:HE21	2.01	0.72
1:D5:74:THR:HG1	1:D5:77:ARG:HD3	1.55	0.72
1:X5:143:PRO:HG2	8:a5:38:ARG:HE	1.54	0.72
1:b5:114:GLU:CB	10:k5:491:THR:CG2	2.64	0.72
10:j5:1153:VAL:HG22	1:v7:65:LEU:CD1	2.19	0.72
8:Q7:25:ARG:HB3	8:C7:25:ARG:HH21	0.57	0.72
8:I7:12:ASP:OD1	1:J7:91:TYR:CZ	2.42	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i7:37:LEU:HD11	1:j7:31:PHE:CZ	2.25	0.72
8:a7:19:SER:HB2	8:a7:20:PRO:CD	2.20	0.72
8:a7:19:SER:HB2	8:a7:20:PRO:HD3	1.71	0.72
8:c7:16:ARG:H	1:d7:90:ARG:HD2	1.55	0.72
3:B8:82:CYS:HA	12:B8:202:CYC:NC	2.04	0.72
12:F1:202:CYC:HC	12:F1:202:CYC:CMD	1.99	0.72
3:L9:45:THR:HG23	2:K9:18:PHE:HB3	1.72	0.72
4:M9:77:LEU:CG	3:Z9:115:GLU:OE2	2.37	0.72
2:O9:63:PHE:HB2	2:O9:66:LEU:HD12	1.70	0.72
12:P9:201:CYC:HMA1	12:P9:201:CYC:NB	2.05	0.72
2:G9:14:SER:O	11:a9:482:TYR:HB3	1.90	0.72
12:J9:202:CYC:NB	12:J9:202:CYC:HMA1	2.05	0.72
12:R9:201:CYC:HMA1	12:R9:201:CYC:NB	2.05	0.72
11:aA:668:TYR:CE2	3:J1:80:ALA:CB	2.71	0.72
11:aA:818:ARG:HG3	11:aA:818:ARG:NH1	1.94	0.72
3:FA:150:ARG:CB	3:F9:150:ARG:CG	2.48	0.72
4:MA:77:LEU:CG	3:ZA:115:GLU:OE2	2.37	0.72
2:K3:13:ASP:CG	11:a9:707:PHE:HZ	1.98	0.72
2:A4:60:TYR:OH	2:A4:79:GLN:HG2	1.90	0.72
4:M3:268:ARG:C	3:V3:111:ASN:ND2	2.48	0.72
5:N3:1:MET:HB3	5:N3:3:VAL:CG2	2.15	0.72
4:M4:176:ARG:HH11	4:M4:176:ARG:CG	2.03	0.72
1:D5:71:MEN:HA	1:D5:77:ARG:HH12	0.89	0.72
1:P5:118:SER:OG	10:k5:498:ALA:CB	2.38	0.72
10:j5:1119:LEU:CD1	1:t7:87:TYR:CE2	2.72	0.72
10:k5:971:VAL:HG12	1:n7:76:ARG:HH12	1.52	0.72
10:k5:1054:SER:HB2	10:k5:1056:PRO:HD3	1.72	0.72
8:i7:25:ARG:NE	8:s7:3:VAL:HA	2.04	0.72
1:T7:110:ASN:ND2	9:w7:57:PHE:CG	2.57	0.72
1:Z7:67:ARG:CZ	11:a9:307:ARG:HB3	2.17	0.72
1:f7:64:ASP:OD2	11:aA:307:ARG:CZ	2.37	0.72
3:B8:108:ARG:HA	4:M8:61:ASN:CB	2.19	0.72
3:D8:116:THR:OG1	4:M8:38:PRO:CB	2.37	0.72
8:o7:2:SER:HB3	1:p7:5:ILE:HB	1.72	0.72
4:M8:92:GLU:CD	4:M8:217:VAL:HG22	2.07	0.72
4:M9:15:PHE:HD1	4:M9:71:PRO:HA	1.54	0.72
12:Z8:301:CYC:NB	12:Z8:301:CYC:HMA1	2.05	0.72
2:I9:37:SER:CA	2:I9:97:LEU:HD11	2.18	0.72
12:Z9:202:CYC:HMA1	12:Z9:202:CYC:NB	2.05	0.72
11:a9:54:ARG:HD2	11:a9:610:ALA:HB2	1.72	0.72
11:aA:48:LEU:HD12	11:aA:48:LEU:C	2.14	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:NA:20:ILE:HG21	5:NA:60:ILE:HD13	1.69	0.72
4:M3:160:THR:HG21	4:M3:257:GLN:HB3	1.72	0.72
5:N3:50:LEU:C	5:N3:50:LEU:HD12	2.14	0.72
2:U3:43:ALA:HA	2:Q9:74:TYR:CD1	2.17	0.72
3:X3:87:GLU:O	3:X3:91:ARG:HG3	1.90	0.72
12:B5:201:CYC:C4B	9:z5:23:LEU:HB2	2.20	0.72
1:D5:118:SER:HB3	9:z5:56:LEU:HD11	1.70	0.72
8:G5:115:MET:HE1	12:G5:201:CYC:C2B	2.20	0.72
1:P5:114:GLU:OE1	10:k5:496:GLU:CA	2.38	0.72
10:j5:963:ASP:OD1	10:j5:963:ASP:N	2.20	0.72
10:j5:1018:LEU:HD13	10:j5:1035:PHE:HE2	1.53	0.72
10:k5:203:LEU:HA	10:k5:206:MET:HE3	1.72	0.72
10:k5:289:SER:HB3	10:k5:292:GLU:CD	2.14	0.72
10:k5:793:SER:HB3	12:N7:201:CYC:O2A	1.88	0.72
2:A6:60:TYR:HB3	2:A6:67:THR:CG2	2.19	0.72
1:B7:136:VAL:HG13	11:a9:563:PHE:HZ	1.45	0.72
8:g7:33:GLY:CA	1:h7:31:PHE:CE2	2.71	0.72
8:i7:37:LEU:HD21	1:j7:31:PHE:CZ	2.24	0.72
1:T7:14:VAL:CG1	9:w7:64:ASN:ND2	2.53	0.72
8:c7:39:ILE:HD11	8:c7:148:GLU:HB3	1.59	0.72
8:q7:90:ARG:HD3	1:r7:18:TYR:CD1	2.24	0.72
8:u7:27:LYS:HD2	1:v7:35:ALA:HB2	1.70	0.72
4:M8:4:LEU:HD12	4:M8:4:LEU:O	1.90	0.72
4:M8:172:HIS:HE1	4:M8:249:ASP:OD2	1.72	0.72
12:M8:302:CYC:H2C	3:S8:78:ARG:CG	2.19	0.72
5:N9:50:LEU:C	5:N9:50:LEU:HD12	2.14	0.72
5:N9:70:ILE:HG22	3:T9:119:ALA:HB3	1.71	0.72
3:J9:68:ARG:HD2	11:a9:353:ALA:CB	2.20	0.72
11:a9:598:SER:HB3	11:a9:599:PRO:CG	2.20	0.72
11:a9:601:ALA:HB1	11:a9:602:PRO:HD2	1.72	0.72
4:M1:15:PHE:HD1	4:M1:71:PRO:HA	1.54	0.72
3:HA:117:TYR:HE1	12:HA:202:CYC:NA	1.88	0.71
3:JA:87:GLU:O	3:JA:91:ARG:HG3	1.90	0.71
3:LA:77:ARG:CZ	11:aA:538:ARG:NH2	2.52	0.71
5:NA:22:LEU:HD23	5:NA:26:LEU:CD1	1.83	0.71
4:M3:4:LEU:O	4:M3:4:LEU:HD12	1.90	0.71
4:M3:210:ILE:HD13	5:N3:59:ARG:NH1	2.05	0.71
5:N3:4:LEU:O	5:N3:4:LEU:HG	1.88	0.71
8:K5:111:GLY:O	1:J5:75:THR:HB	1.90	0.71
12:L5:201:CYC:HBB2	10:j5:588:VAL:HG21	1.70	0.71
8:E5:77:MET:O	12:E5:201:CYC:CMD	2.37	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c5:4:LEU:HD23	8:c5:26:ILE:HD13	1.71	0.71
10:j5:188:GLU:N	10:j5:188:GLU:OE1	2.23	0.71
10:j5:195:SER:O	10:j5:199:THR:HG23	1.89	0.71
10:k5:743:VAL:CG1	12:D7:201:CYC:CGD	2.66	0.71
10:k5:1050:PHE:HD2	10:k5:1058:VAL:HG11	1.55	0.71
8:i7:25:ARG:HH12	8:s7:7:ALA:N	1.88	0.71
8:U7:12:ASP:OD1	1:V7:91:TYR:CZ	2.43	0.71
8:a7:161:GLN:CD	1:p7:49:THR:CG2	2.63	0.71
1:f7:67:ARG:HD3	11:aA:311:LEU:HD22	0.73	0.71
3:B8:109:CYS:HA	4:M8:60:LYS:NZ	2.05	0.71
8:o7:27:LYS:HD2	1:p7:35:ALA:HB2	1.70	0.71
8:u7:2:SER:HB3	1:v7:5:ILE:HB	1.72	0.71
3:F8:88:ILE:HG12	11:a9:140:GLN:NE2	2.04	0.71
3:Q8:110:LEU:HD22	3:Q8:170:SER:CB	2.18	0.71
3:F9:68:ARG:CZ	3:Z9:68:ARG:NH2	2.53	0.71
3:H9:78:ARG:HD3	12:H9:202:CYC:O2D	1.88	0.71
3:H9:113:LEU:CD1	12:H9:202:CYC:C2B	2.67	0.71
11:aA:439:ARG:HH11	11:aA:439:ARG:HG3	1.54	0.71
3:FA:149:THR:O	12:F9:302:CYC:HMD2	1.89	0.71
2:KA:12:ALA:O	2:KA:16:GLY:N	2.22	0.71
4:MA:176:ARG:HH11	4:MA:176:ARG:CG	2.03	0.71
5:NA:61:LYS:HD2	12:TA:301:CYC:CBB	2.20	0.71
12:PA:201:CYC:HMA1	12:PA:201:CYC:NB	2.05	0.71
2:O1:60:TYR:OH	2:O1:79:GLN:HG2	1.90	0.71
3:B3:115:GLU:CD	4:M3:76:ALA:O	2.33	0.71
3:B4:82:CYS:O	12:B4:202:CYC:CBC	2.37	0.71
3:L3:120:LEU:CD2	11:a9:731:GLN:HG2	2.19	0.71
2:O3:60:TYR:OH	2:O3:79:GLN:HG2	1.90	0.71
2:U3:141:GLN:C	2:Q9:76:ASP:H	1.98	0.71
8:K5:77:MET:O	12:K5:201:CYC:HMD1	1.89	0.71
8:A5:4:LEU:HD23	8:A5:26:ILE:HD13	1.71	0.71
1:H5:2:GLN:OE1	10:j5:551:MET:HE3	1.89	0.71
8:I5:91:LEU:O	8:I5:104:ILE:CD1	2.38	0.71
1:V5:114:GLU:CB	10:j5:496:GLU:HG3	2.19	0.71
6:M6:164:GLU:OE1	6:M6:258:VAL:HG22	1.89	0.71
10:j5:1034:GLU:CD	10:j5:1037:ARG:NH2	2.48	0.71
10:k5:362:LYS:CE	10:k5:363:HIS:HE2	1.99	0.71
8:c7:131:ARG:HH11	8:c7:131:ARG:CG	2.03	0.71
3:B8:68:ARG:HH12	3:U8:68:ARG:NH2	1.88	0.71
3:F8:107:ASP:C	4:M8:6:THR:HB	2.14	0.71
3:F8:115:GLU:HG2	4:M8:3:VAL:HG21	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M8:21:LEU:O	4:M8:21:LEU:HD12	1.90	0.71
3:O8:119:ALA:HB2	5:Z8:72:GLU:H	1.55	0.71
12:F1:201:CYC:HMA1	12:F1:201:CYC:NB	2.05	0.71
5:N9:61:LYS:HD2	12:T9:301:CYC:CBB	2.20	0.71
2:E9:33:ARG:HD3	2:I9:25:GLN:HE22	1.55	0.71
11:aA:598:SER:HB3	11:aA:599:PRO:CG	2.20	0.71
11:aA:601:ALA:HB1	11:aA:602:PRO:HD2	1.72	0.71
4:M1:263:PRO:CB	3:Z1:119:ALA:CB	2.61	0.71
5:N1:22:LEU:HD11	5:N1:26:LEU:HD21	1.71	0.71
12:F3:201:CYC:HMA1	12:F3:201:CYC:NB	2.05	0.71
4:M3:172:HIS:HE1	4:M3:249:ASP:OD2	1.73	0.71
2:O3:60:TYR:HB3	2:O3:67:THR:CG2	2.19	0.71
12:B1:202:CYC:HMA1	12:B1:202:CYC:NB	2.05	0.71
4:M4:4:LEU:O	4:M4:4:LEU:HD12	1.90	0.71
4:M4:144:ARG:NH1	5:Z4:59:ARG:NH1	2.38	0.71
3:O4:107:ASP:HA	5:Z4:66:ARG:NH1	2.06	0.71
8:M5:4:LEU:HD23	8:M5:26:ILE:HD13	1.71	0.71
8:G5:119:LEU:CD1	12:G5:201:CYC:C2A	2.67	0.71
3:J6:87:GLU:O	3:J6:91:ARG:HG3	1.90	0.71
9:i5:6:LYS:HB2	9:i5:55:LYS:CB	2.17	0.71
10:j5:951:MET:CE	10:j5:955:LEU:CG	2.65	0.71
10:j5:1050:PHE:HD2	10:j5:1058:VAL:HG11	1.55	0.71
10:k5:147:ARG:O	10:k5:147:ARG:HD3	1.90	0.71
10:k5:642:ARG:HG2	10:k5:642:ARG:NH1	2.02	0.71
10:k5:1053:TYR:O	1:l7:107:ARG:HD2	1.90	0.71
10:k5:1056:PRO:CD	10:k5:1057:LYS:H	1.97	0.71
10:k5:1118:THR:CG2	12:k5:1204:CYC:O2A	2.38	0.71
12:D6:202:CYC:HC	12:D6:202:CYC:CMD	1.99	0.71
1:H7:140:LEU:HD12	11:aA:561:ALA:CA	2.18	0.71
8:I7:44:THR:HG1	1:J7:18:TYR:HD2	1.39	0.71
8:i7:89:LEU:HD13	8:i7:153:PHE:CZ	2.25	0.71
8:Y7:4:LEU:HD23	8:Y7:26:ILE:HD13	1.71	0.71
1:f7:10:ASN:CG	9:y7:65:THR:HG1	1.96	0.71
2:A8:63:PHE:HB2	2:A8:66:LEU:HD12	1.70	0.71
12:B8:202:CYC:HBB3	4:M8:61:ASN:CG	2.13	0.71
4:M9:7:SER:OG	3:D9:111:ASN:ND2	2.23	0.71
2:O9:60:TYR:OH	2:O9:79:GLN:HG2	1.90	0.71
2:O9:63:PHE:O	2:O9:66:LEU:CG	2.39	0.71
3:X9:87:GLU:O	3:X9:91:ARG:HG3	1.90	0.71
11:a9:61:TYR:HA	11:a9:65:LEU:HB2	1.72	0.71
11:a9:290:ASP:C	11:a9:291:TYR:CD1	2.68	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:731:GLN:HG2	3:L1:120:LEU:CD2	2.20	0.71
4:M1:188:LEU:HD21	12:Z1:202:CYC:NB	2.04	0.71
2:AA:63:PHE:HB2	2:AA:66:LEU:HD12	1.70	0.71
3:FA:150:ARG:HG2	3:F9:150:ARG:HA	1.71	0.71
2:G3:111:ALA:CB	3:L3:77:ARG:NE	2.53	0.71
2:A4:60:TYR:HB3	2:A4:67:THR:CG2	2.19	0.71
12:L3:202:CYC:HB	11:a9:738:LEU:CD1	1.95	0.71
4:M3:21:LEU:HD12	4:M3:21:LEU:O	1.90	0.71
3:B1:88:ILE:CG2	12:B1:202:CYC:CAB	2.67	0.71
3:U4:112:GLY:C	4:M4:74:LEU:HD21	2.15	0.71
12:L4:202:CYC:HBB2	11:aA:245:ALA:CB	2.20	0.71
8:K5:131:ARG:CG	8:K5:157:VAL:HG21	2.21	0.71
8:K5:152:TYR:CE2	8:U5:20:PRO:HB3	2.26	0.71
8:I5:102:THR:CB	8:I5:103:PRO:CD	2.64	0.71
1:P5:68:PRO:HB3	1:R5:13:ASP:O	1.89	0.71
8:a5:91:LEU:O	8:a5:104:ILE:CD1	2.38	0.71
10:j5:930:LEU:O	1:J7:33:THR:CG2	2.38	0.71
10:j5:1024:LYS:C	10:j5:1030:ILE:HG22	2.16	0.71
10:j5:1053:TYR:CB	10:j5:1058:VAL:HG23	2.20	0.71
8:O7:6:LYS:NZ	8:E7:21:GLY:HA3	2.05	0.71
8:i7:25:ARG:NH2	8:s7:6:LYS:H	1.85	0.71
8:a7:91:LEU:O	8:a7:104:ILE:CD1	2.39	0.71
8:c7:124:PRO:O	8:c7:125:ALA:O	2.07	0.71
8:m7:91:LEU:O	8:m7:104:ILE:CD1	2.39	0.71
8:u7:23:LEU:CD1	1:v7:38:VAL:CG1	2.67	0.71
1:v7:62:TYR:HB3	11:aA:601:ALA:CB	2.19	0.71
12:H8:201:CYC:OB	11:a9:129:ASN:HB3	1.90	0.71
3:J8:87:GLU:O	3:J8:91:ARG:HG3	1.90	0.71
2:N8:60:TYR:OH	2:N8:79:GLN:HG2	1.90	0.71
4:M9:160:THR:HG21	4:M9:257:GLN:HB3	1.72	0.71
2:I9:41:ALA:HB2	2:I9:97:LEU:HD12	1.73	0.71
11:aA:351:THR:CB	11:aA:352:PRO:CD	2.33	0.71
11:aA:426:ARG:HD2	11:aA:490:ILE:CG2	2.20	0.71
12:Z1:201:CYC:HC	12:Z1:201:CYC:CMD	1.99	0.71
3:DA:111:ASN:ND2	4:MA:7:SER:OG	2.23	0.71
3:LA:52:ILE:HD11	3:LA:87:GLU:HG2	1.71	0.71
2:QA:68:GLN:NE2	2:U1:45:THR:O	2.18	0.71
3:TA:32:LYS:NZ	2:X4:60:TYR:HB2	2.05	0.71
3:B4:108:ARG:O	12:B4:202:CYC:CBB	2.39	0.71
4:M4:15:PHE:HD1	4:M4:71:PRO:HA	1.54	0.71
5:Z4:38:GLU:HG2	12:Z4:301:CYC:CMB	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D5:75:THR:HB	8:E5:111:GLY:O	1.90	0.71
1:J5:74:THR:OG1	1:J5:77:ARG:HD3	1.91	0.71
1:d5:127:VAL:CB	10:j5:698:GLY:HA3	2.20	0.71
8:U5:91:LEU:O	8:U5:104:ILE:CD1	2.39	0.71
1:X5:107:ARG:O	10:j5:520:ARG:NH1	2.23	0.71
6:M6:281:ASP:OD1	8:Y7:76:LYS:HB3	1.89	0.71
10:j5:74:ARG:O	10:j5:74:ARG:HG3	1.89	0.71
10:j5:547:ARG:HD2	10:j5:547:ARG:C	2.16	0.71
10:j5:742:GLY:HA2	12:J7:201:CYC:O1D	1.91	0.71
10:k5:755:GLN:O	10:k5:755:GLN:HG3	1.90	0.71
10:k5:938:GLN:NE2	1:D7:28:LYS:HD2	2.04	0.71
10:k5:978:LEU:CG	1:p7:107:ARG:NH2	2.54	0.71
8:O7:91:LEU:O	8:O7:104:ILE:CD1	2.39	0.71
4:M8:232:VAL:HG22	4:M8:235:PHE:HE2	1.54	0.71
2:N8:112:GLY:HA3	5:Z8:33:GLY:CA	2.21	0.71
2:N8:112:GLY:HA3	5:Z8:33:GLY:HA2	1.70	0.71
4:M9:81:ASP:N	3:Z9:111:ASN:ND2	2.37	0.71
4:M9:158:PHE:HA	3:V9:108:ARG:CD	2.14	0.71
4:M9:273:ILE:HD13	3:V9:75:PRO:HG3	1.73	0.71
11:aA:61:TYR:HA	11:aA:65:LEU:HB2	1.72	0.71
3:X1:87:GLU:O	3:X1:91:ARG:HG3	1.90	0.71
12:DA:201:CYC:HMA1	12:DA:201:CYC:NB	2.05	0.71
12:JA:202:CYC:CGA	11:aA:511:LYS:HA	2.17	0.71
2:OA:63:PHE:HB2	2:OA:66:LEU:HD12	1.70	0.71
3:TA:29:ASN:ND2	2:X4:61:ASN:OD1	2.20	0.71
12:ZA:202:CYC:HMA1	12:ZA:202:CYC:NB	2.05	0.71
4:M3:222:ARG:HG3	4:M3:222:ARG:NH1	2.01	0.71
5:N3:20:ILE:HG21	5:N3:60:ILE:HD13	1.69	0.71
2:E4:15:GLN:HG3	11:aA:163:ASP:OD2	1.89	0.71
4:M4:21:LEU:O	4:M4:36:TYR:CE2	2.44	0.71
4:M4:230:GLN:CG	12:M4:301:CYC:OB	2.33	0.71
4:M4:232:VAL:HB	12:M4:301:CYC:CBB	2.09	0.71
8:A5:114:GLU:HB2	1:F5:79:ALA:CB	2.18	0.71
8:Q5:156:LEU:O	8:Q5:160:MET:HG2	1.90	0.71
1:R5:124:ALA:HB3	1:Z5:64:ASP:OD2	1.89	0.71
10:j5:1008:PHE:HD1	12:v7:201:CYC:CBB	2.02	0.71
10:j5:1064:LYS:HG3	10:j5:1065:HIS:H	1.55	0.71
10:k5:1143:LEU:HD23	1:l7:10:ASN:OD1	1.90	0.71
8:O7:29:PHE:HZ	8:O7:98:ALA:O	1.62	0.71
12:P7:201:CYC:HBB2	9:z7:21:ARG:HG2	1.73	0.71
1:B7:140:LEU:HG	11:a9:561:ALA:CB	2.17	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I7:91:LEU:O	8:I7:104:ILE:CD1	2.39	0.71
8:k7:120:GLN:HG3	1:p7:53:LYS:HZ1	1.56	0.71
12:d7:201:CYC:NB	9:x7:38:PHE:CD1	2.59	0.71
3:B8:105:LEU:HD12	3:B8:109:CYS:HB3	1.71	0.71
8:u7:103:PRO:CB	1:v7:9:ILE:HD13	2.21	0.71
9:y7:35:GLU:N	9:y7:35:GLU:OE1	2.23	0.71
9:y7:60:VAL:HG23	9:y7:62:GLY:H	1.56	0.71
2:X8:60:TYR:HB2	3:T9:32:LYS:NZ	2.05	0.71
3:Q8:84:ARG:HD3	5:Z8:31:TRP:CD1	2.25	0.71
4:M9:134:ASN:HD21	5:N9:1:MET:H1	1.39	0.71
12:B9:201:CYC:HMA1	12:B9:201:CYC:NB	2.05	0.71
2:E9:33:ARG:CG	2:I9:25:GLN:OE1	2.33	0.71
3:H9:113:LEU:HD11	12:H9:202:CYC:C2B	2.19	0.71
3:H1:77:ARG:NH1	12:H1:201:CYC:O2D	2.21	0.71
4:M1:21:LEU:O	4:M1:36:TYR:CE2	2.44	0.71
1:A:76:ARG:HH21	10:k5:16:LEU:CD1	2.04	0.71
1:A:131:GLN:CB	1:R5:17:LYS:NZ	2.52	0.71
2:EA:33:ARG:HD3	2:IA:25:GLN:HE22	1.55	0.71
3:JA:68:ARG:HD2	11:aA:353:ALA:CB	2.21	0.71
4:M3:233:GLU:OE1	4:M3:237:ARG:NH2	2.24	0.71
3:J4:87:GLU:O	3:J4:91:ARG:HG3	1.90	0.71
4:M4:21:LEU:O	4:M4:21:LEU:HD12	1.90	0.71
2:N4:60:TYR:OH	2:N4:79:GLN:HG2	1.90	0.71
12:O4:201:CYC:CBA	5:Z4:50:LEU:HD13	2.19	0.71
8:A5:119:LEU:CD1	12:A5:201:CYC:C2A	2.67	0.71
8:C5:102:THR:CB	8:C5:103:PRO:CD	2.64	0.71
1:J5:83:ARG:NH1	9:i5:38:PHE:CE2	2.58	0.71
8:i7:20:PRO:HG2	8:s7:155:TYR:CE2	2.25	0.71
8:i7:49:ARG:CZ	8:i7:140:LEU:CD2	2.69	0.71
2:X8:61:ASN:OD1	3:T9:29:ASN:ND2	2.20	0.71
3:F8:109:CYS:O	4:M8:5:THR:CG2	2.38	0.71
2:A9:60:TYR:OH	2:A9:79:GLN:HG2	1.90	0.71
2:G1:111:ALA:CB	3:L1:77:ARG:NE	2.53	0.71
11:a9:776:TYR:O	11:a9:776:TYR:CG	2.42	0.71
4:M1:4:LEU:O	4:M1:4:LEU:HD12	1.90	0.71
4:M1:21:LEU:O	4:M1:21:LEU:HD12	1.90	0.71
4:M1:160:THR:HG21	4:M1:257:GLN:HB3	1.72	0.71
12:T1:301:CYC:NB	12:T1:301:CYC:HMA1	2.05	0.71
4:MA:1:MET:HA	11:aA:422:SER:O	1.91	0.71
4:MA:21:LEU:O	4:MA:36:TYR:CE2	2.44	0.71
3:J3:84:ARG:HH11	11:a9:668:TYR:HB3	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G2:15:GLN:HA	6:M2:104:ARG:HD3	1.71	0.71
3:H2:14:LEU:HD22	6:M2:67:GLY:HA3	1.71	0.71
2:A4:63:PHE:O	2:A4:66:LEU:CG	2.39	0.71
3:B4:119:ALA:C	4:M4:52:LEU:CD1	2.64	0.71
12:B4:202:CYC:HMA1	12:B4:202:CYC:NB	2.05	0.71
4:M3:15:PHE:HD1	4:M3:71:PRO:HA	1.54	0.71
4:M3:176:ARG:HH11	4:M3:176:ARG:CG	2.03	0.71
2:O3:63:PHE:HB2	2:O3:66:LEU:HD12	1.70	0.71
3:S4:116:THR:HG23	3:S4:117:TYR:N	2.04	0.71
12:M4:301:CYC:HMA1	12:M4:301:CYC:NB	2.05	0.71
8:E5:131:ARG:CG	8:E5:157:VAL:HG21	2.21	0.71
8:S5:14:GLU:CG	10:j5:538:PHE:CE2	2.70	0.71
6:M6:104:ARG:HH11	2:G6:16:GLY:HA3	1.51	0.71
3:F6:126:SER:O	12:F6:201:CYC:HMC3	1.91	0.71
8:O7:25:ARG:HH22	8:E7:25:ARG:CD	2.02	0.71
8:S7:100:ASP:OD1	8:G7:19:SER:OG	2.07	0.71
8:I7:25:ARG:NH2	8:W7:25:ARG:CG	2.53	0.71
8:i7:121:THR:CG2	12:i7:201:CYC:HMC3	2.21	0.71
8:W7:13:ALA:HA	9:w7:46:LYS:HD3	1.71	0.71
8:c7:104:ILE:CG2	8:c7:155:TYR:HE2	2.04	0.71
8:s7:91:LEU:HB3	8:s7:104:ILE:HG23	1.73	0.71
9:y7:9:ALA:CB	9:y7:44:ILE:HD13	2.20	0.71
3:Q8:89:ILE:HG12	3:Q8:92:TYR:OH	1.90	0.71
3:L9:113:LEU:N	11:a9:532:ALA:CB	2.54	0.71
4:M9:21:LEU:O	4:M9:21:LEU:HD12	1.90	0.71
4:M9:21:LEU:O	4:M9:36:TYR:CE2	2.44	0.71
4:M9:273:ILE:CD1	3:V9:75:PRO:HG3	2.21	0.71
5:Z8:1:MET:HA	5:Z8:1:MET:CE	2.10	0.71
5:Z8:26:LEU:CD2	12:Z8:301:CYC:OB	2.38	0.71
11:a9:107:ARG:HG3	11:a9:108:PRO:CD	2.18	0.71
1:Z:158:SER:HB3	1:X5:11:ASN:HD21	0.75	0.71
2:IA:41:ALA:HB2	2:IA:97:LEU:HD12	1.72	0.71
12:ZA:201:CYC:HC	12:ZA:201:CYC:CMD	1.98	0.71
3:J3:14:LEU:CG	11:a9:621:THR:CG2	2.40	0.71
3:L2:75:PRO:HG3	3:L2:78:ARG:HG3	1.73	0.71
6:M2:39:ARG:NH1	8:O5:59:PHE:CE2	2.58	0.71
3:B3:91:ARG:NH2	11:a9:677:GLN:CD	2.49	0.71
3:W4:87:GLU:O	3:W4:91:ARG:HG3	1.90	0.71
2:N4:13:ASP:CB	3:O4:108:ARG:NH1	2.53	0.71
8:A5:126:VAL:HG22	12:A5:201:CYC:C3C	2.12	0.71
1:D5:74:THR:OG1	1:D5:77:ARG:HD3	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P5:114:GLU:OE1	10:k5:496:GLU:HB2	1.89	0.71
8:W5:156:LEU:O	8:W5:160:MET:HG2	1.90	0.71
10:j5:755:GLN:O	10:j5:755:GLN:HG3	1.90	0.71
10:j5:974:LEU:CG	1:v7:1:MET:H1	1.77	0.71
10:j5:1019:SER:O	10:j5:1020:GLU:HB2	1.90	0.71
10:j5:1143:LEU:O	1:r7:10:ASN:OD1	2.09	0.71
1:d7:48:ALA:HB3	8:m7:161:GLN:OE1	1.91	0.71
8:o7:47:ARG:HH21	8:o7:47:ARG:CG	2.04	0.71
8:u7:47:ARG:HH21	8:u7:47:ARG:CG	2.04	0.71
8:u7:121:THR:HG23	12:u7:201:CYC:CMC	2.14	0.71
4:M8:21:LEU:O	4:M8:36:TYR:CE2	2.44	0.71
3:Q8:110:LEU:HD21	3:Q8:167:ALA:CA	2.13	0.71
3:L9:97:LEU:HD12	3:L9:97:LEU:C	2.13	0.71
3:L9:111:ASN:O	11:a9:532:ALA:HB2	1.91	0.71
4:M9:274:VAL:CA	3:V9:77:ARG:HE	2.04	0.71
12:V1:202:CYC:HC	12:V1:202:CYC:CMD	1.99	0.71
2:EA:33:ARG:CD	2:IA:25:GLN:HE22	2.04	0.71
3:FA:36:LYS:HB2	3:FA:156:LEU:CD1	2.20	0.71
2:O1:63:PHE:O	2:O1:66:LEU:CG	2.39	0.71
2:A1:63:PHE:HB2	2:A1:66:LEU:HD12	1.70	0.71
2:C3:140:SER:CB	3:D8:150:ARG:NH1	2.54	0.71
4:M3:246:ALA:HA	12:X3:201:CYC:CBB	2.21	0.71
3:S4:120:LEU:CD1	12:S4:202:CYC:CHA	2.68	0.71
3:F4:108:ARG:CZ	4:M4:9:GLN:CD	2.62	0.71
4:M4:197:ASP:OD1	5:Z4:52:ARG:CZ	2.38	0.71
4:M4:233:GLU:OE1	4:M4:237:ARG:NH2	2.24	0.71
8:C5:91:LEU:O	8:C5:104:ILE:CD1	2.38	0.71
8:I5:29:PHE:HE1	8:I5:98:ALA:O	1.69	0.71
8:e5:91:LEU:O	8:e5:104:ILE:CD1	2.39	0.71
1:f5:114:GLU:CA	10:j5:491:THR:HG23	2.20	0.71
1:V5:114:GLU:OE1	10:j5:496:GLU:CB	2.39	0.71
1:X5:106:GLU:CG	10:j5:504:ASP:C	2.63	0.71
7:N6:49:LEU:HG	12:N6:101:CYC:NB	2.05	0.71
10:k5:246:VAL:HG22	10:k5:257:THR:CG2	2.21	0.71
3:F6:84:ARG:NH1	12:F6:201:CYC:O2A	2.23	0.71
8:Q7:13:ALA:C	9:z7:46:LYS:HZ3	1.96	0.71
8:g7:19:SER:HB2	8:g7:20:PRO:HD3	1.72	0.71
8:i7:47:ARG:CB	1:j7:18:TYR:CE2	2.74	0.71
8:a7:107:ILE:CG1	1:b7:13:ASP:OD2	2.38	0.71
8:c7:121:THR:CG2	12:c7:201:CYC:HMC3	2.21	0.71
3:B8:68:ARG:HH12	3:U8:68:ARG:HH22	1.37	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W8:87:GLU:O	3:W8:91:ARG:HG3	1.90	0.71
4:M8:235:PHE:HB2	12:M8:301:CYC:HAA1	1.71	0.71
3:L9:82:CYS:O	3:L9:85:ASP:HB2	1.91	0.71
4:M9:4:LEU:HD12	4:M9:4:LEU:O	1.90	0.71
11:a9:629:LYS:O	11:a9:629:LYS:HD3	1.91	0.71
11:aA:290:ASP:C	11:aA:291:TYR:CD1	2.68	0.71
4:M1:210:ILE:HD13	5:N1:59:ARG:NH1	2.05	0.71
4:M1:233:GLU:OE1	4:M1:237:ARG:NH2	2.24	0.71
4:M1:246:ALA:HA	12:X1:201:CYC:CBB	2.21	0.71
4:M1:258:LYS:HZ2	3:Z1:111:ASN:HD21	0.74	0.71
3:F2:82:CYS:SG	12:F2:201:CYC:C4C	2.79	0.71
2:IA:37:SER:CA	2:IA:97:LEU:HD11	2.18	0.70
4:MA:233:GLU:OE1	4:MA:237:ARG:NH2	2.24	0.70
5:NA:54:LEU:HD13	3:TA:84:ARG:HH21	1.53	0.70
2:OA:59:VAL:O	2:OA:66:LEU:HD12	1.89	0.70
5:N3:34:LEU:C	3:T3:84:ARG:HH11	1.98	0.70
5:N3:54:LEU:CD1	12:R3:201:CYC:OB	2.37	0.70
3:B1:84:ARG:CZ	11:aA:680:SER:HB3	2.20	0.70
3:S4:113:LEU:HD12	3:S4:116:THR:CG2	2.20	0.70
3:F4:113:LEU:N	4:M4:5:THR:CA	2.33	0.70
4:M4:144:ARG:HH12	5:Z4:59:ARG:HH12	1.38	0.70
4:M4:217:VAL:HG21	5:Z4:30:PRO:HB3	1.67	0.70
1:B5:87:TYR:HE1	9:z5:20:GLY:HA2	1.55	0.70
1:P5:114:GLU:OE1	10:k5:496:GLU:HA	1.91	0.70
12:W5:201:CYC:HMD1	12:W5:201:CYC:NC	2.02	0.70
9:z5:6:LYS:HB2	9:z5:55:LYS:CB	2.17	0.70
10:j5:825:ASN:CB	12:H7:201:CYC:HBB2	2.21	0.70
10:j5:974:LEU:HG	1:v7:1:MET:H1	0.88	0.70
10:k5:951:MET:HE3	10:k5:955:LEU:HG	1.73	0.70
2:A6:60:TYR:OH	2:A6:79:GLN:HG2	1.90	0.70
8:U7:102:THR:CB	8:U7:103:PRO:CD	2.64	0.70
8:u7:23:LEU:CD2	1:v7:38:VAL:CG1	2.66	0.70
3:L8:120:LEU:HD11	12:a9:901:CYC:HAA1	1.72	0.70
4:M8:144:ARG:HG3	4:M8:204:ILE:HG21	1.72	0.70
4:M9:176:ARG:CG	4:M9:176:ARG:HH11	2.03	0.70
4:M9:233:GLU:OE1	4:M9:237:ARG:NH2	2.24	0.70
11:aA:654:ALA:HB2	2:I1:15:GLN:HG2	1.70	0.70
11:aA:802:ARG:HG3	12:aA:901:CYC:O1D	1.91	0.70
5:N1:34:LEU:C	3:T1:84:ARG:HH11	1.98	0.70
3:B4:120:LEU:HG	4:M4:52:LEU:HD13	1.72	0.70
4:M3:21:LEU:O	4:M3:36:TYR:CE2	2.44	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:160:THR:HG21	4:M4:257:GLN:HB3	1.72	0.70
5:Z4:29:HIS:HE1	5:Z4:38:GLU:HB3	1.52	0.70
8:G5:64:ASP:OD2	8:U5:69:GLY:O	2.09	0.70
8:I5:91:LEU:HB3	8:I5:104:ILE:HG23	1.73	0.70
12:R5:201:CYC:HBB2	10:k5:520:ARG:CD	2.20	0.70
8:U5:75:GLU:HG2	6:M6:32:MET:SD	2.30	0.70
12:V5:201:CYC:HBB2	10:j5:623:VAL:CG2	2.21	0.70
6:M6:50:LEU:CD2	8:c7:79:ALA:C	2.64	0.70
10:j5:725:LEU:HD23	10:j5:725:LEU:O	1.91	0.70
10:j5:1054:SER:HB2	10:j5:1056:PRO:HD3	1.71	0.70
10:k5:188:GLU:N	10:k5:188:GLU:OE1	2.23	0.70
10:k5:235:ASP:OD1	10:k5:235:ASP:N	2.22	0.70
10:k5:930:LEU:HB3	1:D7:33:THR:HB	1.72	0.70
1:H7:54:GLU:OE2	11:aA:563:PHE:CD2	2.44	0.70
8:g7:91:LEU:O	8:g7:104:ILE:CD1	2.39	0.70
8:g7:107:ILE:CG1	1:h7:13:ASP:OD2	2.38	0.70
12:i7:201:CYC:HMD1	12:i7:201:CYC:NC	2.02	0.70
9:x7:3:ARG:NE	9:x7:67:VAL:CG1	2.42	0.70
2:A9:101:GLY:HA2	2:K9:22:THR:OG1	1.91	0.70
11:a9:102:GLN:OE1	11:a9:103:GLY:N	2.24	0.70
3:J1:87:GLU:O	3:J1:91:ARG:HG3	1.90	0.70
5:N1:39:PRO:CB	3:T1:113:LEU:HA	2.15	0.70
3:F2:72:ASN:O	12:F2:201:CYC:HMD2	1.91	0.70
2:AA:101:GLY:HA2	2:KA:22:THR:OG1	1.91	0.70
3:JA:68:ARG:HD2	11:aA:353:ALA:HB1	1.72	0.70
4:MA:21:LEU:O	4:MA:21:LEU:HD12	1.90	0.70
2:QA:101:GLY:HA2	2:UA:22:THR:OG1	1.90	0.70
12:QA:201:CYC:CBA	3:TA:67:ILE:CG2	2.69	0.70
12:P1:201:CYC:CBA	4:M1:134:ASN:HB2	2.20	0.70
3:H3:115:GLU:CB	11:a9:786:GLU:OE1	2.40	0.70
2:N4:63:PHE:O	2:N4:66:LEU:CG	2.39	0.70
1:B5:76:ARG:HD2	9:z5:14:LEU:O	1.91	0.70
8:e5:45:GLU:OE1	1:R5:139:GLY:C	2.34	0.70
1:f5:18:TYR:CE2	10:j5:165:ARG:CG	2.74	0.70
8:S5:14:GLU:CG	10:j5:538:PHE:HE2	2.04	0.70
8:S5:106:GLU:HG2	10:j5:533:LEU:HD21	1.71	0.70
12:T5:201:CYC:HBB1	10:j5:482:GLN:NE2	2.02	0.70
10:j5:388:ARG:HA	10:j5:394:PRO:HG3	1.72	0.70
10:k5:974:LEU:HD12	1:p7:106:GLU:CD	2.15	0.70
10:k5:1053:TYR:CB	10:k5:1058:VAL:HG23	2.20	0.70
10:k5:1150:TYR:CE2	1:p7:69:GLY:C	2.53	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O7:29:PHE:HE1	8:O7:98:ALA:O	1.69	0.70
8:I7:6:LYS:NZ	8:W7:19:SER:HB3	2.06	0.70
8:g7:91:LEU:HB3	8:g7:104:ILE:HG23	1.73	0.70
1:h7:46:SER:HB2	8:u7:157:VAL:HG12	1.72	0.70
8:c7:89:LEU:HD13	8:c7:153:PHE:CZ	2.25	0.70
8:m7:44:THR:HG1	1:n7:18:TYR:HD2	1.38	0.70
9:x7:35:GLU:N	9:x7:35:GLU:OE1	2.23	0.70
2:N8:63:PHE:O	2:N8:66:LEU:CG	2.39	0.70
12:D9:201:CYC:HMA1	12:D9:201:CYC:NB	2.05	0.70
3:H9:84:ARG:HH11	11:a9:475:ASN:HA	1.56	0.70
11:aA:629:LYS:HD3	11:aA:629:LYS:O	1.91	0.70
4:M1:245:ASP:HB3	3:X1:108:ARG:C	2.15	0.70
5:N1:14:LYS:HD3	5:N1:14:LYS:H	1.57	0.70
12:F2:202:CYC:HC	12:F2:202:CYC:CMD	1.98	0.70
3:J3:109:CYS:O	11:a9:796:ALA:HB2	1.92	0.70
3:B4:82:CYS:HA	12:B4:202:CYC:C3C	2.21	0.70
3:B4:116:THR:HG23	3:B4:117:TYR:N	2.04	0.70
3:B4:119:ALA:CB	4:M4:52:LEU:CD1	2.64	0.70
4:M3:248:SER:OG	12:X3:201:CYC:HMA1	1.91	0.70
12:T3:301:CYC:NB	12:T3:301:CYC:HMA1	2.05	0.70
4:M4:172:HIS:HE1	4:M4:249:ASP:OD2	1.73	0.70
4:M4:214:GLY:CA	5:Z4:28:HIS:CG	2.74	0.70
4:M4:232:VAL:HG22	4:M4:235:PHE:HE2	1.54	0.70
8:C5:37:LEU:CD2	1:D5:27:LEU:CD1	2.69	0.70
1:D5:39:ARG:O	1:D5:42:ALA:N	2.24	0.70
8:G5:115:MET:HE1	12:G5:201:CYC:CHB	2.18	0.70
1:V5:87:TYR:HE2	10:j5:649:PHE:CZ	2.07	0.70
9:i5:9:ALA:HA	9:i5:50:LYS:O	1.92	0.70
10:j5:18:ARG:NH1	10:j5:268:SER:HB3	2.06	0.70
10:j5:820:HIS:HE1	10:j5:859:ILE:CD1	1.95	0.70
10:j5:869:GLY:O	9:w7:43:ARG:NH1	2.24	0.70
10:j5:1008:PHE:CZ	12:v7:201:CYC:C4B	2.74	0.70
10:j5:1119:LEU:HD11	1:t7:87:TYR:CZ	2.26	0.70
10:k5:1024:LYS:C	10:k5:1030:ILE:HG22	2.16	0.70
10:k5:1064:LYS:CG	10:k5:1065:HIS:N	2.55	0.70
8:i7:20:PRO:HG3	8:s7:155:TYR:CB	2.22	0.70
3:O8:104:VAL:HA	5:Z8:61:LYS:HE3	1.71	0.70
4:M9:51:ARG:NH2	11:a9:430:ARG:CD	2.55	0.70
4:M9:189:ASP:CG	3:V9:84:ARG:HH11	1.98	0.70
5:Z8:1:MET:HB3	5:Z8:3:VAL:CG2	2.15	0.70
11:aA:54:ARG:HD2	11:aA:610:ALA:HB2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:X1:202:CYC:HC	12:X1:202:CYC:CMD	1.98	0.70
3:HA:116:THR:CG2	12:HA:202:CYC:CMA	2.69	0.70
3:JA:109:CYS:O	11:aA:518:ALA:CB	2.34	0.70
2:KA:18:PHE:HB3	3:LA:45:THR:HG23	1.72	0.70
5:NA:1:MET:HE3	5:NA:1:MET:CA	2.17	0.70
7:N2:2:TYR:H	7:N2:2:TYR:HD1	1.39	0.70
4:M3:245:ASP:HB3	3:X3:108:ARG:C	2.15	0.70
4:M4:94:TRP:HB3	3:Q4:88:ILE:CD1	2.20	0.70
4:M4:100:SER:C	2:P4:13:ASP:OD2	2.33	0.70
4:M4:101:ASP:CA	2:P4:13:ASP:CB	2.53	0.70
3:Q4:77:ARG:HH12	5:Z4:37:HIS:CE1	2.09	0.70
3:Q4:104:VAL:HG22	3:Q4:105:LEU:CD1	2.20	0.70
8:O5:91:LEU:O	8:O5:104:ILE:CD1	2.39	0.70
8:I5:37:LEU:CD2	1:J5:27:LEU:CD1	2.69	0.70
8:e5:29:PHE:HE1	8:e5:98:ALA:O	1.69	0.70
1:V5:118:SER:OG	10:j5:498:ALA:HB1	1.90	0.70
6:M6:278:ARG:HH22	1:d7:64:ASP:CG	1.99	0.70
9:z5:15:LYS:HD2	9:z5:15:LYS:C	2.17	0.70
10:j5:1025:LEU:CA	10:j5:1030:ILE:HG22	2.22	0.70
10:k5:274:MET:CE	10:k5:323:VAL:O	2.39	0.70
2:A6:63:PHE:O	2:A6:66:LEU:CG	2.39	0.70
8:i7:104:ILE:CG2	8:i7:155:TYR:HE2	2.04	0.70
8:k7:66:VAL:CG1	11:a9:65:LEU:HD21	2.21	0.70
8:U7:44:THR:HG1	1:V7:18:TYR:HD2	1.40	0.70
1:b7:76:ARG:N	8:c7:110:ILE:O	2.25	0.70
8:c7:20:PRO:CD	8:m7:155:TYR:CB	2.56	0.70
8:o7:103:PRO:CB	1:p7:9:ILE:HD13	2.21	0.70
8:s7:91:LEU:O	8:s7:104:ILE:CD1	2.39	0.70
1:v7:62:TYR:HB2	11:aA:602:PRO:HD2	1.63	0.70
9:x7:9:ALA:CB	9:x7:44:ILE:HD13	2.20	0.70
4:M8:104:ALA:CB	2:P8:10:ALA:O	2.32	0.70
4:M8:127:SER:CB	12:M8:302:CYC:HMA2	1.97	0.70
4:M9:1:MET:SD	11:a9:422:SER:O	2.49	0.70
4:M9:162:ASN:HB2	12:V9:201:CYC:HBB3	1.74	0.70
5:Z8:14:LYS:HD3	5:Z8:14:LYS:H	1.57	0.70
11:a9:426:ARG:O	11:a9:426:ARG:HG3	1.91	0.70
11:aA:339:GLU:N	11:aA:340:PRO:CD	2.55	0.70
3:F2:82:CYS:HG	12:F2:201:CYC:HAC2	1.53	0.70
1:Z:13:ASP:OD2	8:e5:107:ILE:HG12	1.90	0.70
4:MA:162:ASN:HB2	12:VA:201:CYC:HBB3	1.74	0.70
3:D3:68:ARG:HH12	3:X3:68:ARG:NH1	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B1:68:ARG:HH12	3:V1:68:ARG:NH1	1.88	0.70
2:I4:115:GLU:OE1	11:aA:133:LEU:CD2	2.38	0.70
4:M4:61:ASN:OD1	4:M4:62:LYS:CG	2.40	0.70
4:M4:144:ARG:HG2	4:M4:204:ILE:HG21	1.72	0.70
5:Z4:41:GLN:HB3	12:Z4:301:CYC:C3B	2.20	0.70
8:a5:91:LEU:HB3	8:a5:104:ILE:HG23	1.73	0.70
8:c7:42:THR:HG22	8:c7:141:LEU:CD2	2.13	0.70
3:L8:71:GLY:HA2	11:a9:82:GLN:CD	2.17	0.70
2:N8:115:GLU:CB	5:Z8:32:PRO:C	2.63	0.70
3:L9:14:LEU:HG	11:a9:358:PRO:HB2	1.74	0.70
4:M9:271:ARG:NH2	12:V9:201:CYC:O2D	2.24	0.70
5:N9:4:LEU:O	5:N9:4:LEU:HG	1.88	0.70
5:Z8:41:GLN:HB3	12:Z8:301:CYC:C4B	2.17	0.70
11:aA:30:MET:HE3	11:aA:35:ARG:HD3	1.72	0.70
11:aA:803:ASN:HA	3:J1:120:LEU:HA	1.73	0.70
12:H1:202:CYC:HC	12:H1:202:CYC:CMD	1.99	0.70
1:Z:17:LYS:C	8:e5:90:ARG:HD2	2.17	0.70
2:EA:2:LYS:HZ1	2:IA:17:ARG:NH1	1.70	0.70
5:NA:66:ARG:CB	3:TA:111:ASN:HD22	2.04	0.70
2:QA:76:ASP:HB2	2:U1:140:SER:O	1.89	0.70
2:QA:119:THR:CG2	3:TA:83:LEU:HD13	2.21	0.70
2:K3:112:GLY:CA	11:a9:670:LEU:HD21	2.16	0.70
4:M3:148:LYS:CD	4:M3:197:ASP:OD1	2.37	0.70
5:N3:22:LEU:HD21	5:N3:26:LEU:CD2	2.08	0.70
2:O3:63:PHE:O	2:O3:66:LEU:CG	2.39	0.70
3:Q4:104:VAL:HG23	3:Q4:105:LEU:CD1	2.20	0.70
3:Q4:124:THR:HB	3:Q4:171:ILE:C	2.16	0.70
12:V5:201:CYC:OB	10:j5:623:VAL:HB	1.91	0.70
10:j5:194:CYS:HB2	12:j5:1201:CYC:HAC2	1.71	0.70
10:j5:1153:VAL:CG2	1:v7:125:ALA:CA	2.68	0.70
10:j5:1153:VAL:HG23	1:v7:125:ALA:CA	2.21	0.70
8:C7:91:LEU:O	8:C7:104:ILE:CD1	2.39	0.70
8:c7:50:ILE:HG12	8:c7:137:ALA:HB2	1.74	0.70
9:x7:60:VAL:HG23	9:x7:62:GLY:H	1.56	0.70
4:M8:176:ARG:CG	4:M8:176:ARG:HH11	2.03	0.70
4:M8:232:VAL:O	4:M8:235:PHE:HD2	1.69	0.70
3:S8:113:LEU:HD12	3:S8:116:THR:CG2	2.20	0.70
4:M9:273:ILE:CD1	3:V9:75:PRO:HD2	2.20	0.70
2:E9:33:ARG:CD	2:I9:25:GLN:HE22	2.04	0.70
1:A:73:TYR:CE1	10:k5:162:TRP:CE2	2.73	0.70
3:JA:108:ARG:C	11:aA:517:ALA:HA	2.17	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SA:39:GLU:HA	2:X4:69:PRO:HB2	1.73	0.70
3:J3:77:ARG:NE	2:K3:111:ALA:CB	2.53	0.70
3:H2:88:ILE:HD11	6:M2:115:TYR:OH	1.92	0.70
6:M2:130:ARG:HB3	12:F2:201:CYC:HBA2	1.74	0.70
3:L3:120:LEU:HA	11:a9:817:LEU:HD11	1.74	0.70
12:T3:302:CYC:HC	12:T3:302:CYC:CMD	1.99	0.70
2:N4:60:TYR:HB3	2:N4:67:THR:CG2	2.19	0.70
6:M6:251:LYS:HZ1	3:H6:121:GLY:HA3	1.56	0.70
10:j5:742:GLY:C	12:J7:201:CYC:CGD	2.65	0.70
10:j5:974:LEU:HD23	1:v7:1:MET:N	2.07	0.70
10:k5:778:LYS:NZ	12:F7:201:CYC:OB	2.24	0.70
10:k5:964:GLY:CA	1:n7:69:GLY:CA	2.70	0.70
10:k5:1008:PHE:CD1	12:p7:201:CYC:OB	2.45	0.70
3:D1:68:ARG:HH12	3:X1:68:ARG:NH1	1.90	0.70
8:U7:91:LEU:O	8:U7:104:ILE:CD1	2.39	0.70
8:c7:49:ARG:CZ	8:c7:140:LEU:CD2	2.69	0.70
8:c7:50:ILE:HD13	8:c7:137:ALA:HB2	1.73	0.70
12:D8:201:CYC:HC	12:D8:201:CYC:CMD	1.99	0.70
8:m7:91:LEU:HB3	8:m7:104:ILE:HG23	1.73	0.70
8:m7:102:THR:CB	8:m7:103:PRO:CD	2.64	0.70
8:u7:37:LEU:HD11	1:v7:24:LEU:O	1.92	0.70
3:U8:114:LYS:HZ3	4:M8:13:LYS:HD3	1.50	0.70
12:F8:201:CYC:HC	12:F8:201:CYC:CMD	1.98	0.70
3:O8:119:ALA:CB	5:Z8:72:GLU:H	2.04	0.70
2:A9:63:PHE:HB2	2:A9:66:LEU:HD12	1.70	0.70
12:J9:202:CYC:HBA1	11:a9:511:LYS:C	2.17	0.70
11:aA:813:PRO:HB2	3:L1:119:ALA:CB	1.93	0.70
4:M1:176:ARG:HH11	4:M1:176:ARG:CG	2.03	0.70
2:AA:63:PHE:O	2:AA:66:LEU:CG	2.39	0.70
12:BA:201:CYC:HMA1	12:BA:201:CYC:NB	2.05	0.70
12:JA:202:CYC:NB	12:JA:202:CYC:HMA1	2.05	0.70
3:LA:113:LEU:N	11:aA:532:ALA:CB	2.54	0.70
4:MA:189:ASP:CG	3:VA:84:ARG:HH11	1.98	0.70
8:S5:90:ARG:NH1	1:T5:16:GLY:HA2	2.05	0.70
8:W5:17:TYR:CD2	1:X5:93:THR:HG21	2.22	0.70
9:z5:9:ALA:HA	9:z5:50:LYS:O	1.92	0.70
10:j5:19:THR:OG1	10:j5:19:THR:O	2.04	0.70
10:j5:1008:PHE:CD1	12:v7:201:CYC:HBB2	2.27	0.70
10:k5:63:ASN:OD1	10:k5:63:ASN:N	2.22	0.70
10:k5:743:VAL:N	12:D7:201:CYC:CGD	2.53	0.70
8:C7:91:LEU:HB3	8:C7:104:ILE:HG23	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i7:50:ILE:HG12	8:i7:137:ALA:HB2	1.74	0.70
3:B8:107:ASP:O	4:M8:60:LYS:O	2.10	0.70
8:u7:17:TYR:HE2	1:v7:93:THR:HG1	0.70	0.70
3:H8:80:ALA:O	3:H8:84:ARG:HG3	1.91	0.70
3:H8:81:ALA:CA	3:H8:84:ARG:HH21	2.04	0.70
4:M8:144:ARG:CD	4:M8:204:ILE:HG21	2.22	0.70
12:M8:301:CYC:C3B	3:Y8:88:ILE:HG22	2.21	0.70
4:M9:78:GLY:CA	3:D9:115:GLU:OE2	2.40	0.70
3:D9:68:ARG:CZ	3:X9:68:ARG:HH12	2.04	0.70
3:J9:20:SER:C	3:J9:22:GLN:N	2.46	0.70
3:J9:78:ARG:CZ	11:a9:359:ASP:HA	2.15	0.70
11:aA:102:GLN:OE1	11:aA:103:GLY:N	2.24	0.70
11:aA:376:ALA:HB1	11:aA:504:VAL:HB	1.73	0.70
4:M1:248:SER:OG	12:X1:201:CYC:HMA1	1.91	0.70
5:N1:33:GLY:C	3:T1:84:ARG:CD	2.65	0.70
3:HA:84:ARG:HH11	11:aA:475:ASN:HA	1.56	0.70
4:MA:271:ARG:NH2	12:VA:201:CYC:O2D	2.24	0.70
3:L3:75:PRO:HG2	11:a9:823:ILE:HD11	1.73	0.70
8:K5:17:TYR:OH	1:L5:89:LEU:HG	1.92	0.70
1:N5:14:VAL:O	1:R5:68:PRO:CB	2.38	0.70
1:N5:110:ASN:HD21	10:k5:692:LEU:CA	2.04	0.70
1:H5:107:ARG:NH2	10:j5:541:THR:OG1	2.24	0.70
1:T5:14:VAL:O	1:X5:68:PRO:CB	2.38	0.70
8:U5:91:LEU:HB3	8:U5:104:ILE:HG23	1.73	0.70
12:V5:201:CYC:O2A	10:j5:649:PHE:CD2	2.43	0.70
1:Z5:53:LYS:CD	8:a5:118:SER:O	2.34	0.70
1:Z5:127:VAL:CB	10:k5:698:GLY:HA3	2.21	0.70
1:b5:18:TYR:CE1	10:k5:165:ARG:CG	2.75	0.70
10:j5:235:ASP:OD1	10:j5:235:ASP:N	2.22	0.70
8:Q7:25:ARG:NE	8:C7:25:ARG:NH2	2.40	0.70
8:i7:25:ARG:NH2	8:s7:6:LYS:CA	2.36	0.70
8:k7:76:LYS:NZ	11:a9:605:PRO:CB	2.43	0.70
8:U7:91:LEU:HB3	8:U7:104:ILE:HG23	1.73	0.70
8:c7:94:TYR:CG	1:d7:9:ILE:HG23	2.27	0.70
8:o7:29:PHE:CE2	1:p7:5:ILE:HD11	2.25	0.70
8:u7:23:LEU:HD22	1:v7:38:VAL:HG13	1.72	0.70
2:A9:63:PHE:O	2:A9:66:LEU:CG	2.39	0.70
3:H9:117:TYR:HE1	12:H9:202:CYC:NA	1.90	0.70
2:I9:37:SER:CA	2:I9:97:LEU:HD21	2.20	0.70
11:aA:278:LEU:HD12	11:aA:278:LEU:N	2.07	0.70
11:aA:796:ALA:HB2	3:J1:109:CYS:O	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N1:31:TRP:HZ2	3:T1:92:TYR:HH	1.35	0.70
3:DA:68:ARG:CZ	3:XA:68:ARG:HH12	2.04	0.69
5:NA:54:LEU:CA	12:TA:301:CYC:HBA1	2.22	0.69
3:J2:87:GLU:O	3:J2:91:ARG:HG3	1.90	0.69
12:B4:201:CYC:HC	12:B4:201:CYC:CMD	1.99	0.69
3:U4:112:GLY:N	4:M4:74:LEU:HD21	2.07	0.69
3:U4:120:LEU:HD21	12:U4:201:CYC:HBD2	1.72	0.69
5:Z4:1:MET:HB3	5:Z4:3:VAL:CG2	2.15	0.69
8:S5:90:ARG:HD3	1:T5:18:TYR:CD1	2.27	0.69
9:i5:16:ARG:HE	9:i5:16:ARG:C	1.99	0.69
10:j5:147:ARG:HD3	10:j5:147:ARG:O	1.91	0.69
10:j5:1064:LYS:CG	10:j5:1065:HIS:N	2.55	0.69
10:k5:18:ARG:NH1	10:k5:268:SER:HB3	2.06	0.69
10:k5:1069:ARG:NH1	10:k5:1069:ARG:HG3	2.07	0.69
1:H7:140:LEU:CG	11:aA:561:ALA:CB	2.67	0.69
1:h7:37:ARG:NH1	1:h7:96:MET:O	2.26	0.69
8:i7:131:ARG:HH11	8:i7:131:ARG:HG2	1.57	0.69
12:j7:201:CYC:HBB1	9:y7:42:GLN:OE1	1.90	0.69
2:A8:63:PHE:O	2:A8:66:LEU:CG	2.39	0.69
1:v7:139:GLY:C	11:aA:342:ARG:HD2	2.16	0.69
4:M8:233:GLU:OE1	4:M8:237:ARG:NH2	2.24	0.69
5:Z8:4:LEU:O	5:Z8:4:LEU:HG	1.88	0.69
3:J9:108:ARG:O	11:a9:517:ALA:C	2.36	0.69
11:a9:403:THR:CG2	11:a9:536:THR:HG23	1.95	0.69
11:aA:283:GLN:HB3	11:aA:284:PRO:HD2	0.70	0.69
11:aA:798:SER:OG	12:aA:901:CYC:C2A	2.40	0.69
5:N1:1:MET:HB3	5:N1:3:VAL:CG2	2.15	0.69
12:DA:201:CYC:CBA	11:aA:420:ASN:HB2	2.19	0.69
3:LA:82:CYS:O	3:LA:85:ASP:HB2	1.91	0.69
4:MA:1:MET:CB	11:aA:422:SER:O	2.40	0.69
4:MA:273:ILE:CD1	3:VA:75:PRO:HG3	2.21	0.69
2:I2:14:SER:O	6:M2:193:TYR:HB3	1.92	0.69
7:N2:49:LEU:HG	12:N2:101:CYC:NB	2.05	0.69
2:A3:63:PHE:HB2	2:A3:66:LEU:HD12	1.70	0.69
3:D4:150:ARG:NH1	2:C1:140:SER:CB	2.54	0.69
4:M4:233:GLU:HG3	3:Y4:112:GLY:HA3	1.74	0.69
8:E5:17:TYR:OH	1:F5:89:LEU:HG	1.92	0.69
10:j5:1119:LEU:HD21	1:t7:87:TYR:CZ	2.26	0.69
10:k5:546:PHE:CE1	10:k5:561:GLU:OE1	2.44	0.69
10:k5:631:HIS:CB	10:k5:664:MET:HE1	2.22	0.69
10:k5:1008:PHE:CD1	12:p7:201:CYC:C4B	2.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:1019:SER:O	10:k5:1020:GLU:HB2	1.90	0.69
10:k5:1055:SER:CB	12:k5:1203:CYC:CAB	2.70	0.69
10:k5:1064:LYS:HG3	10:k5:1065:HIS:H	1.54	0.69
8:c7:12:ASP:OD2	1:d7:91:TYR:CE1	2.35	0.69
2:N8:13:ASP:CB	3:O8:108:ARG:NH1	2.53	0.69
3:Q8:82:CYS:HA	12:Z8:301:CYC:CAC	2.20	0.69
4:M9:274:VAL:HA	3:V9:77:ARG:NE	2.07	0.69
5:N9:1:MET:HE3	5:N9:1:MET:CA	2.17	0.69
11:a9:586:LEU:N	11:a9:586:LEU:HD22	2.05	0.69
11:a9:598:SER:HB3	11:a9:599:PRO:CB	2.22	0.69
3:FA:150:ARG:HG3	3:F9:150:ARG:HA	1.73	0.69
12:HA:201:CYC:HC	12:HA:201:CYC:CMD	1.98	0.69
12:LA:201:CYC:HC	12:LA:201:CYC:CMD	1.98	0.69
7:N2:20:VAL:HG21	7:N2:39:TYR:CZ	2.27	0.69
3:L3:88:ILE:HG12	11:a9:742:GLN:OE1	1.90	0.69
4:M3:134:ASN:HB2	12:P3:201:CYC:CBA	2.20	0.69
4:M3:205:ASP:OD2	5:N3:52:ARG:CZ	2.40	0.69
5:N3:1:MET:C	5:N3:3:VAL:N	2.50	0.69
5:N3:14:LYS:HD3	5:N3:14:LYS:H	1.57	0.69
3:H4:84:ARG:HD3	11:aA:131:TYR:CZ	2.27	0.69
4:M4:144:ARG:CD	4:M4:204:ILE:HG21	2.22	0.69
3:O4:107:ASP:CA	5:Z4:66:ARG:HB2	2.22	0.69
8:O5:91:LEU:HB3	8:O5:104:ILE:HG23	1.73	0.69
1:f5:30:TYR:CZ	10:j5:47:PHE:CZ	2.80	0.69
8:U5:79:ALA:HB1	6:M6:32:MET:HA	1.71	0.69
1:V5:114:GLU:CD	10:j5:496:GLU:CG	2.55	0.69
1:X5:106:GLU:CD	10:j5:504:ASP:O	2.34	0.69
9:z5:14:LEU:CD1	9:z5:15:LYS:N	2.54	0.69
9:z5:16:ARG:C	9:z5:16:ARG:HE	1.99	0.69
10:j5:501:ILE:HD12	10:j5:501:ILE:N	2.07	0.69
10:j5:951:MET:HE3	10:j5:955:LEU:HG	1.73	0.69
10:k5:974:LEU:HD23	1:p7:1:MET:N	2.02	0.69
10:k5:1025:LEU:CA	10:k5:1030:ILE:HG22	2.21	0.69
8:O7:22:GLU:HG2	8:O7:25:ARG:HH11	1.57	0.69
8:i7:21:GLY:CA	8:s7:101:VAL:HG22	2.22	0.69
8:U7:60:GLN:OE1	1:p7:117:ASN:CG	2.34	0.69
12:d7:201:CYC:HBB2	9:x7:42:GLN:CD	2.16	0.69
8:o7:17:TYR:HE2	1:p7:93:THR:HG1	0.70	0.69
8:u7:2:SER:HB3	1:v7:5:ILE:CB	2.22	0.69
8:u7:29:PHE:CE2	1:v7:5:ILE:HD11	2.25	0.69
3:L8:113:LEU:HD22	12:a9:901:CYC:HMB1	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N9:61:LYS:HD3	3:T9:108:ARG:C	2.14	0.69
3:Y8:102:ALA:HB1	3:Y8:105:LEU:HB3	1.73	0.69
3:J9:108:ARG:C	11:a9:517:ALA:HA	2.16	0.69
11:aA:598:SER:HB3	11:aA:599:PRO:CB	2.22	0.69
11:aA:623:ASP:HA	3:H1:78:ARG:NH1	2.08	0.69
11:aA:643:LEU:HD12	11:aA:766:ASN:HB3	1.74	0.69
11:aA:738:LEU:CD1	12:aA:902:CYC:HB	1.95	0.69
5:N1:33:GLY:C	3:T1:84:ARG:HD2	2.17	0.69
1:Z:18:TYR:CE1	8:e5:90:ARG:HB2	2.27	0.69
3:JA:108:ARG:O	11:aA:517:ALA:C	2.36	0.69
3:JA:108:ARG:CA	11:aA:517:ALA:HA	2.23	0.69
4:MA:1:MET:SD	11:aA:422:SER:O	2.49	0.69
3:J3:84:ARG:CD	11:a9:668:TYR:CB	2.46	0.69
12:L2:202:CYC:HC	12:L2:202:CYC:CMD	1.98	0.69
3:H4:111:ASN:OD1	11:aA:291:TYR:CE1	2.44	0.69
12:H4:201:CYC:HMA1	11:aA:261:SER:CB	2.22	0.69
4:M4:27:HIS:HE1	4:M4:34:ASP:C	1.71	0.69
3:Q4:84:ARG:CZ	5:Z4:31:TRP:HB2	2.21	0.69
8:W5:16:ARG:HA	1:X5:90:ARG:NE	2.07	0.69
7:N6:20:VAL:HG21	7:N6:39:TYR:CZ	2.27	0.69
10:j5:1118:THR:O	12:j5:1202:CYC:HMA3	1.90	0.69
10:k5:1143:LEU:HD12	8:k7:106:GLU:CD	2.16	0.69
3:F6:84:ARG:HH22	12:F6:201:CYC:CGA	2.04	0.69
8:c7:92:VAL:CG2	8:c7:156:LEU:CD1	2.69	0.69
1:f7:67:ARG:HH12	11:aA:307:ARG:CG	2.05	0.69
8:u7:37:LEU:CD1	1:v7:28:LYS:HE3	2.22	0.69
3:H8:111:ASN:OD1	11:a9:291:TYR:CE1	2.45	0.69
4:M8:99:VAL:HA	3:Q8:108:ARG:NH1	2.07	0.69
4:M8:217:VAL:HG23	5:Z8:30:PRO:CG	2.14	0.69
3:O8:112:GLY:HA3	5:Z8:69:GLU:C	2.18	0.69
3:Q8:89:ILE:HA	3:Q8:92:TYR:HE2	0.88	0.69
3:L9:77:ARG:NH1	11:a9:538:ARG:NH2	2.40	0.69
4:M9:134:ASN:CG	5:N9:1:MET:N	2.50	0.69
5:N9:14:LYS:CE	5:N9:50:LEU:HD23	2.23	0.69
5:Z8:42:SER:N	12:Z8:301:CYC:HMA2	2.08	0.69
11:a9:239:TYR:CD1	12:a9:901:CYC:O2A	2.45	0.69
11:a9:776:TYR:CD1	11:a9:776:TYR:C	2.70	0.69
11:aA:308:LEU:O	11:aA:308:LEU:HD23	1.92	0.69
11:aA:711:SER:HB3	3:L1:111:ASN:O	1.91	0.69
11:aA:776:TYR:CE1	12:H1:201:CYC:C4B	2.72	0.69
2:A2:60:TYR:CE2	2:A2:79:GLN:NE2	2.61	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H3:62:GLU:OE1	8:k7:49:ARG:NH2	2.25	0.69
6:M2:57:GLU:CD	8:i7:76:LYS:CE	2.65	0.69
2:A3:60:TYR:CE2	2:A3:79:GLN:NE2	2.61	0.69
3:D3:68:ARG:HH22	3:X3:68:ARG:NH2	1.82	0.69
12:L3:202:CYC:CBA	11:a9:735:VAL:N	2.37	0.69
12:J4:202:CYC:HC	12:J4:202:CYC:CMD	1.99	0.69
1:V5:87:TYR:CE2	10:j5:649:PHE:HZ	2.09	0.69
10:j5:274:MET:CE	10:j5:323:VAL:O	2.39	0.69
10:j5:1119:LEU:CD1	12:j5:1202:CYC:OB	2.33	0.69
10:k5:175:ASP:HB2	10:k5:176:PRO:CG	2.18	0.69
8:i7:24:ASP:CB	8:s7:99:GLY:O	2.40	0.69
8:U7:22:GLU:C	8:U7:24:ASP:N	2.47	0.69
8:a7:22:GLU:HG2	8:a7:25:ARG:HH12	1.57	0.69
2:A8:60:TYR:CE2	2:A8:79:GLN:NE2	2.61	0.69
3:L8:108:ARG:C	12:a9:901:CYC:HBB1	2.16	0.69
5:N9:66:ARG:CB	3:T9:111:ASN:HD22	2.04	0.69
11:a9:339:GLU:N	11:a9:340:PRO:CD	2.55	0.69
5:N1:14:LYS:CE	5:N1:50:LEU:HD23	2.23	0.69
5:N1:34:LEU:HB3	3:T1:84:ARG:NH1	2.08	0.69
1:Z:18:TYR:OH	8:e5:89:LEU:HB3	1.92	0.69
4:MA:51:ARG:NH2	11:aA:430:ARG:CD	2.54	0.69
2:A4:60:TYR:CE2	2:A4:79:GLN:NE2	2.61	0.69
12:B4:202:CYC:HMA1	4:M4:58:TYR:CB	2.19	0.69
5:N3:33:GLY:C	3:T3:84:ARG:CD	2.65	0.69
4:M4:138:SER:HB3	12:Z4:301:CYC:CAB	2.22	0.69
4:M4:226:SER:OG	3:Y4:88:ILE:HG21	1.90	0.69
3:Q4:72:ASN:OD1	12:Z4:301:CYC:CMD	2.33	0.69
1:L5:76:ARG:HB2	8:G5:110:ILE:O	1.93	0.69
12:R5:201:CYC:CBB	10:k5:520:ARG:NE	2.53	0.69
8:W5:47:ARG:HD3	1:X5:18:TYR:OH	1.93	0.69
6:M6:278:ARG:N	1:d7:62:TYR:O	2.26	0.69
9:z5:56:LEU:HD12	9:z5:56:LEU:N	2.08	0.69
9:i5:15:LYS:C	9:i5:15:LYS:HD2	2.17	0.69
10:k5:388:ARG:HA	10:k5:394:PRO:HG3	1.72	0.69
8:I7:91:LEU:HB3	8:I7:104:ILE:HG23	1.73	0.69
8:g7:19:SER:HB2	8:g7:20:PRO:CD	2.20	0.69
12:h7:201:CYC:OB	9:y7:21:ARG:O	2.10	0.69
8:o7:2:SER:HB3	1:p7:5:ILE:CB	2.22	0.69
8:u7:30:VAL:HB	1:v7:31:PHE:C	2.18	0.69
12:J8:201:CYC:HMA3	11:a9:176:ASN:HD21	1.58	0.69
4:M8:61:ASN:OD1	4:M8:62:LYS:CG	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z8:38:GLU:H	12:Z8:301:CYC:HMB2	1.58	0.69
11:a9:32:ARG:HG3	11:a9:32:ARG:NH1	2.06	0.69
11:a9:732:SER:CB	11:a9:824:VAL:HG21	2.23	0.69
11:aA:817:LEU:HD11	3:L1:120:LEU:HA	1.75	0.69
4:M1:94:TRP:CH2	5:N1:29:HIS:CE1	2.81	0.69
1:Z:13:ASP:OD1	8:e5:107:ILE:HD13	1.93	0.69
3:LA:107:ASP:O	3:LA:111:ASN:ND2	2.23	0.69
5:NA:14:LYS:CE	5:NA:50:LEU:HD23	2.23	0.69
2:OA:63:PHE:O	2:OA:66:LEU:CG	2.39	0.69
2:QA:68:GLN:CB	2:QA:69:PRO:CD	2.71	0.69
2:QA:68:GLN:CG	2:QA:69:PRO:HD3	2.22	0.69
2:O1:60:TYR:CE2	2:O1:79:GLN:NE2	2.61	0.69
3:H3:78:ARG:NH1	11:a9:623:ASP:HA	2.06	0.69
3:H3:84:ARG:HD2	11:a9:776:TYR:CE1	2.27	0.69
3:L3:119:ALA:HB1	11:a9:813:PRO:O	1.92	0.69
4:M3:94:TRP:CH2	5:N3:29:HIS:CE1	2.81	0.69
2:O3:60:TYR:CE2	2:O3:79:GLN:NE2	2.61	0.69
8:M5:21:GLY:H	8:A5:6:LYS:HZ3	1.40	0.69
8:C5:91:LEU:HB3	8:C5:104:ILE:HG23	1.73	0.69
1:T5:53:LYS:CE	8:U5:120:GLN:HE21	2.01	0.69
6:M6:115:TYR:OH	3:H6:88:ILE:HD11	1.91	0.69
6:M6:127:SER:HA	12:F6:201:CYC:O2A	1.92	0.69
10:k5:725:LEU:HD23	10:k5:725:LEU:O	1.91	0.69
10:k5:1143:LEU:CD2	1:l7:10:ASN:OD1	2.41	0.69
8:O7:91:LEU:HB3	8:O7:104:ILE:HG23	1.73	0.69
12:h7:201:CYC:HBB2	9:y7:21:ARG:NE	2.05	0.69
8:c7:131:ARG:HH11	8:c7:131:ARG:HG2	1.57	0.69
12:B8:202:CYC:CBB	4:M8:61:ASN:HD22	2.04	0.69
8:o7:37:LEU:HD11	1:p7:24:LEU:O	1.92	0.69
8:s7:44:THR:HG1	1:t7:18:TYR:HD2	1.40	0.69
2:X8:68:GLN:CD	3:T9:24:LEU:O	2.36	0.69
2:N8:115:GLU:OE1	5:Z8:31:TRP:HB3	1.93	0.69
5:N9:1:MET:HB3	5:N9:3:VAL:CG2	2.15	0.69
5:N9:50:LEU:HD22	12:T9:301:CYC:O1D	1.93	0.69
11:a9:30:MET:HE3	11:a9:35:ARG:HD3	1.72	0.69
11:aA:670:LEU:HD21	2:K1:112:GLY:HA3	1.74	0.69
4:M1:71:PRO:HG2	4:M1:74:LEU:HB2	1.75	0.69
3:JA:108:ARG:NH2	11:aA:515:GLY:O	2.25	0.69
3:LA:77:ARG:NH1	11:aA:538:ARG:NH2	2.41	0.69
4:MA:185:ALA:CB	12:VA:201:CYC:O1A	2.40	0.69
5:NA:23:SER:O	5:NA:25:THR:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OA:38:MET:HE1	3:PA:28:THR:OG1	1.93	0.69
2:A1:60:TYR:CE2	2:A1:79:GLN:NE2	2.61	0.69
2:A1:63:PHE:O	2:A1:66:LEU:CG	2.39	0.69
3:B4:68:ARG:HH12	3:U4:68:ARG:NH2	1.88	0.69
2:E4:1:MET:H2	4:M4:10:ARG:CZ	2.06	0.69
4:M4:27:HIS:CE1	4:M4:34:ASP:N	2.59	0.69
4:M4:27:HIS:CD2	4:M4:34:ASP:CG	2.71	0.69
4:M4:228:SER:HA	3:Y4:91:ARG:HH21	1.58	0.69
3:Q4:85:ASP:CB	3:Q4:88:ILE:HD12	2.21	0.69
8:K5:17:TYR:CB	1:L5:45:SER:HB3	2.23	0.69
8:M5:90:ARG:HD3	1:N5:18:TYR:CD1	2.27	0.69
3:Y4:89:ILE:HG12	3:Y4:92:TYR:OH	1.92	0.69
8:e5:91:LEU:HB3	8:e5:104:ILE:HG23	1.73	0.69
8:Q5:17:TYR:CD2	1:R5:93:THR:HG21	2.22	0.69
8:Q5:47:ARG:HD3	1:R5:18:TYR:OH	1.93	0.69
12:Q5:201:CYC:HMD1	12:Q5:201:CYC:NC	2.02	0.69
8:S5:89:LEU:HB3	1:T5:18:TYR:OH	1.93	0.69
8:W5:159:ALA:O	8:W5:160:MET:C	2.34	0.69
8:a5:29:PHE:HE1	8:a5:98:ALA:C	2.01	0.69
10:j5:246:VAL:HG22	10:j5:257:THR:CG2	2.21	0.69
10:j5:826:THR:HG21	12:H7:201:CYC:HMA2	1.75	0.69
10:j5:1016:LEU:HB2	10:j5:1044:ASN:HD22	1.58	0.69
2:A6:38:MET:HE1	3:B6:28:THR:OG1	1.93	0.69
8:O7:21:GLY:O	8:O7:24:ASP:N	2.25	0.69
8:Q7:12:ASP:C	9:z7:46:LYS:HE2	2.17	0.69
8:Q7:13:ALA:HA	9:z7:46:LYS:HZ2	1.52	0.69
8:Q7:13:ALA:C	9:z7:46:LYS:NZ	2.50	0.69
8:S7:49:ARG:HD2	11:aA:550:PHE:HE1	1.48	0.69
8:i7:50:ILE:HD13	8:i7:137:ALA:HB2	1.73	0.69
8:a7:91:LEU:HB3	8:a7:104:ILE:HG23	1.73	0.69
8:c7:11:ALA:CB	1:d7:94:TYR:OH	2.41	0.69
8:o7:30:VAL:HB	1:p7:31:PHE:C	2.18	0.69
3:U8:108:ARG:HB3	4:M8:246:ALA:HB2	1.69	0.69
4:M8:92:GLU:OE2	4:M8:217:VAL:CG2	2.38	0.69
4:M8:127:SER:CB	12:M8:302:CYC:HMA1	1.97	0.69
4:M8:160:THR:HG21	4:M8:257:GLN:HB3	1.72	0.69
3:L9:52:ILE:HD11	3:L9:87:GLU:HG2	1.71	0.69
3:L9:107:ASP:O	3:L9:111:ASN:ND2	2.23	0.69
5:Z8:14:LYS:CE	5:Z8:50:LEU:HD23	2.23	0.69
3:J9:120:LEU:O	11:a9:361:ALA:HB1	1.91	0.69
11:aA:32:ARG:HG3	11:aA:32:ARG:NH1	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:642:GLU:HB2	11:aA:766:ASN:O	1.93	0.69
11:aA:707:PHE:HZ	2:K1:13:ASP:CG	1.99	0.69
4:M1:19:MET:HE2	4:M1:59:ILE:HD11	1.75	0.69
4:M1:205:ASP:OD2	5:N1:52:ARG:CZ	2.40	0.69
2:AA:38:MET:HE1	3:BA:28:THR:OG1	1.93	0.69
3:DA:115:GLU:OE2	4:MA:78:GLY:CA	2.40	0.69
4:MA:71:PRO:HG2	4:MA:74:LEU:HB2	1.75	0.69
5:NA:22:LEU:HD11	5:NA:26:LEU:HD21	1.71	0.69
12:QA:201:CYC:HBB2	3:TA:75:PRO:HB2	1.60	0.69
3:TA:24:LEU:O	2:X4:68:GLN:OE1	2.10	0.69
3:TA:24:LEU:O	2:X4:68:GLN:CD	2.36	0.69
2:E4:15:GLN:HG2	11:aA:163:ASP:CB	2.15	0.69
2:N4:60:TYR:CE2	2:N4:79:GLN:NE2	2.61	0.69
1:D5:62:TYR:CE1	12:E5:201:CYC:O1D	2.46	0.69
12:Z5:201:CYC:O2A	10:k5:379:PHE:HD2	1.73	0.69
10:j5:175:ASP:HB2	10:j5:176:PRO:CG	2.18	0.69
12:H6:202:CYC:HC	12:H6:202:CYC:CMD	1.99	0.69
8:Q7:12:ASP:O	9:z7:46:LYS:CE	2.41	0.69
8:C7:29:PHE:HE1	8:C7:98:ALA:O	1.68	0.69
3:B8:120:LEU:HD12	4:M8:53:LEU:HB2	1.69	0.69
12:H8:201:CYC:HMA1	11:a9:261:SER:CB	2.23	0.69
5:N9:54:LEU:CA	12:T9:301:CYC:HBA1	2.22	0.69
5:Z8:23:SER:O	5:Z8:25:THR:N	2.26	0.69
2:A9:60:TYR:CE2	2:A9:79:GLN:NE2	2.61	0.69
3:D9:14:LEU:CD1	3:Z9:125:ARG:HD2	2.22	0.69
11:aA:795:ASP:O	12:aA:901:CYC:HBB2	1.92	0.69
2:AA:33:ARG:NE	2:KA:28:ASN:HD21	1.91	0.69
3:HA:113:LEU:CD1	12:HA:202:CYC:C2B	2.71	0.69
5:NA:31:TRP:HB3	5:NA:32:PRO:CD	2.23	0.69
2:QA:68:GLN:HB3	2:QA:69:PRO:CD	2.23	0.69
12:P1:201:CYC:HBA1	4:M1:130:SER:O	1.93	0.69
3:J3:84:ARG:O	11:a9:668:TYR:OH	1.97	0.69
3:L3:1:MET:CE	11:a9:708:HIS:CE1	2.76	0.69
4:M3:130:SER:O	12:P3:201:CYC:HBA1	1.93	0.69
3:F4:112:GLY:O	3:F4:114:LYS:N	2.21	0.69
8:S5:41:GLN:NE2	1:D7:143:PRO:HD3	2.08	0.69
1:Z5:110:ASN:HD22	10:k5:451:LYS:HB3	1.56	0.69
3:J6:108:ARG:NH2	6:M6:155:ASN:CG	2.51	0.69
6:M6:193:TYR:HB3	2:I6:14:SER:O	1.92	0.69
10:j5:974:LEU:HD12	1:v7:106:GLU:CD	2.17	0.69
10:k5:938:GLN:OE1	1:D7:28:LYS:HD3	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:o7:37:LEU:CD1	1:p7:28:LYS:HE3	2.22	0.69
3:Y8:89:ILE:HG12	3:Y8:92:TYR:OH	1.92	0.69
2:A2:63:PHE:O	2:A2:66:LEU:CG	2.38	0.69
1:A:73:TYR:CZ	10:k5:162:TRP:HZ2	2.05	0.68
2:AA:60:TYR:CE2	2:AA:79:GLN:NE2	2.61	0.68
2:IA:97:LEU:HD13	2:IA:97:LEU:C	2.18	0.68
4:MA:134:ASN:CG	5:NA:1:MET:N	2.50	0.68
2:O1:38:MET:HE1	3:P1:28:THR:OG1	1.93	0.68
2:A1:38:MET:HE1	3:B1:28:THR:OG1	1.93	0.68
2:A3:38:MET:HE1	3:B3:28:THR:OG1	1.93	0.68
3:B3:120:LEU:HD13	12:B3:202:CYC:HBD1	1.75	0.68
4:M3:160:THR:HG22	4:M3:257:GLN:HB3	1.73	0.68
3:U4:120:LEU:O	3:U4:120:LEU:HD23	1.93	0.68
4:M4:92:GLU:OE2	5:Z4:30:PRO:HB3	1.82	0.68
4:M4:104:ALA:HB2	2:P4:10:ALA:O	1.94	0.68
3:Q4:93:VAL:HG13	3:Q4:163:TYR:HB2	1.75	0.68
5:Z4:14:LYS:HD3	5:Z4:14:LYS:H	1.57	0.68
1:F5:69:GLY:C	10:k5:554:ASN:HD22	2.01	0.68
8:e5:91:LEU:O	8:e5:104:ILE:HD11	1.93	0.68
8:S5:68:PRO:CB	8:a5:59:PHE:HB3	2.21	0.68
8:a5:102:THR:CB	8:a5:103:PRO:CD	2.64	0.68
10:j5:990:ARG:HH21	10:j5:1026:LYS:HZ2	1.40	0.68
10:k5:774:GLN:HA	10:k5:774:GLN:NE2	2.07	0.68
1:j7:87:TYR:HE2	9:y7:38:PHE:CE1	2.11	0.68
12:H8:201:CYC:HBB3	11:a9:259:ALA:CA	2.21	0.68
12:L8:201:CYC:HC	12:L8:201:CYC:CMD	1.99	0.68
4:M9:222:ARG:HG3	4:M9:222:ARG:NH1	2.01	0.68
2:O9:60:TYR:CE2	2:O9:79:GLN:NE2	2.61	0.68
5:Z8:38:GLU:CB	12:Z8:301:CYC:HMB3	2.01	0.68
2:A9:33:ARG:NE	2:K9:28:ASN:HD21	1.91	0.68
11:a9:376:ALA:CB	11:a9:504:VAL:O	2.42	0.68
11:aA:376:ALA:CB	11:aA:504:VAL:O	2.42	0.68
5:N1:23:SER:O	5:N1:25:THR:N	2.26	0.68
1:A:13:ASP:CG	8:a5:107:ILE:HD13	2.18	0.68
1:Z:127:VAL:HG11	1:X5:15:GLN:CD	2.19	0.68
3:DA:14:LEU:CD1	3:ZA:125:ARG:HD2	2.22	0.68
3:JA:120:LEU:O	11:aA:361:ALA:HB1	1.92	0.68
2:O1:33:ARG:NE	2:Y1:28:ASN:HD21	1.91	0.68
2:A1:33:ARG:NE	2:K1:28:ASN:HD21	1.91	0.68
2:K2:28:ASN:HD21	2:A2:33:ARG:NE	1.91	0.68
2:A4:38:MET:HE1	3:B4:28:THR:OG1	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B4:120:LEU:CD2	4:M4:49:LEU:O	2.40	0.68
4:M3:19:MET:HE2	4:M3:59:ILE:HD11	1.75	0.68
5:N3:31:TRP:NE1	2:S3:13:ASP:O	2.23	0.68
12:H4:201:CYC:CBB	11:aA:259:ALA:CA	2.70	0.68
8:O5:91:LEU:O	8:O5:104:ILE:HD11	1.94	0.68
3:Y4:2:GLN:HB2	3:Y4:103:SER:CB	2.23	0.68
5:Z4:14:LYS:CE	5:Z4:50:LEU:HD23	2.23	0.68
5:Z4:29:HIS:HB3	5:Z4:31:TRP:HD1	1.57	0.68
8:G5:126:VAL:HA	12:G5:201:CYC:CBC	2.23	0.68
8:Q5:63:PRO:O	8:Q5:65:VAL:N	2.26	0.68
2:A6:60:TYR:CE2	2:A6:79:GLN:NE2	2.61	0.68
12:B6:201:CYC:HC	12:B6:201:CYC:CMD	1.99	0.68
12:i7:201:CYC:HB	12:i7:201:CYC:HMA3	1.59	0.68
1:b7:37:ARG:NH1	1:b7:96:MET:O	2.26	0.68
8:c7:50:ILE:CG1	8:c7:137:ALA:HB2	2.24	0.68
2:A8:33:ARG:NE	2:K8:28:ASN:HD21	1.91	0.68
8:m7:91:LEU:O	8:m7:104:ILE:HD11	1.94	0.68
8:q7:75:GLU:HB3	11:aA:53:VAL:CG1	2.23	0.68
8:u7:63:PRO:O	8:u7:65:VAL:N	2.27	0.68
2:N8:60:TYR:CE2	2:N8:79:GLN:NE2	2.61	0.68
3:O8:104:VAL:CG2	5:Z8:61:LYS:CE	2.67	0.68
4:M9:1:MET:CB	11:a9:422:SER:O	2.40	0.68
11:a9:30:MET:HE3	11:a9:35:ARG:HA	1.76	0.68
11:a9:308:LEU:O	11:a9:308:LEU:HD23	1.92	0.68
11:a9:376:ALA:HB1	11:a9:504:VAL:HB	1.73	0.68
11:aA:249:GLU:C	11:aA:285:VAL:CG2	2.66	0.68
11:aA:643:LEU:CD1	11:aA:766:ASN:CB	2.71	0.68
11:aA:671:GLU:HG3	2:K1:115:GLU:OE2	1.93	0.68
4:M1:260:ARG:NH1	4:M1:260:ARG:HG3	2.09	0.68
12:JA:202:CYC:HBA1	11:aA:511:LYS:C	2.18	0.68
4:MA:19:MET:HE2	4:MA:59:ILE:HD11	1.75	0.68
5:NA:14:LYS:HD3	5:NA:14:LYS:H	1.57	0.68
3:B3:84:ARG:CZ	11:a9:680:SER:HB3	2.22	0.68
4:M3:71:PRO:HG2	4:M3:74:LEU:HB2	1.75	0.68
2:U3:142:LEU:O	2:Q9:76:ASP:OD2	2.00	0.68
4:M4:128:ALA:HB3	4:M4:142:PHE:CZ	2.28	0.68
3:Q4:72:ASN:O	12:Z4:301:CYC:HMD3	1.91	0.68
8:O5:75:GLU:OE2	8:i7:56:ASP:OD2	2.12	0.68
8:G5:100:ASP:OD2	8:S5:20:PRO:CB	2.35	0.68
8:I5:91:LEU:O	8:I5:104:ILE:HD11	1.93	0.68
1:J5:39:ARG:O	1:J5:42:ALA:N	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1008:PHE:CE1	12:v7:201:CYC:HBB3	2.28	0.68
10:j5:1069:ARG:NH1	10:j5:1069:ARG:HG3	2.07	0.68
10:j5:1089:LEU:HD22	10:j5:1089:LEU:O	1.94	0.68
1:P7:53:LYS:NZ	8:Q7:120:GLN:OE1	2.26	0.68
1:D7:53:LYS:NZ	8:E7:120:GLN:OE1	2.26	0.68
8:E7:63:PRO:O	8:E7:65:VAL:N	2.27	0.68
12:E7:201:CYC:HMD1	12:E7:201:CYC:NC	2.02	0.68
8:g7:91:LEU:O	8:g7:104:ILE:HD11	1.93	0.68
8:i7:96:ILE:HG13	8:i7:152:TYR:CB	2.23	0.68
8:W7:63:PRO:O	8:W7:65:VAL:N	2.27	0.68
8:a7:90:ARG:HA	1:b7:18:TYR:CE2	2.29	0.68
8:a7:91:LEU:O	8:a7:104:ILE:HD11	1.94	0.68
8:c7:23:LEU:HD13	1:d7:42:ALA:HB2	1.75	0.68
3:B8:120:LEU:HD23	4:M8:49:LEU:HD12	1.73	0.68
8:o7:34:GLU:HA	1:p7:28:LYS:HE2	1.75	0.68
4:M8:127:SER:H	12:M8:302:CYC:HMA2	1.56	0.68
3:Q8:120:LEU:HD12	3:Q8:120:LEU:C	2.19	0.68
3:L9:108:ARG:HA	11:a9:531:ASP:HB2	1.75	0.68
12:L9:201:CYC:HC	12:L9:201:CYC:CMD	1.98	0.68
4:M9:185:ALA:CB	12:V9:201:CYC:O1A	2.40	0.68
2:S9:42:ARG:NH2	3:T9:24:LEU:HB3	2.07	0.68
11:a9:714:ARG:CG	11:a9:808:LEU:O	2.42	0.68
11:aA:360:ALA:O	11:aA:364:THR:HG23	1.93	0.68
11:aA:714:ARG:CG	11:aA:808:LEU:O	2.42	0.68
11:aA:742:GLN:OE1	3:L1:88:ILE:HG12	1.90	0.68
2:IA:1:MET:HE2	2:IA:108:TYR:HE1	1.57	0.68
3:LA:90:LEU:HD23	3:LA:90:LEU:C	2.18	0.68
5:NA:1:MET:HG3	3:RA:119:ALA:CB	1.90	0.68
5:NA:7:ASP:N	3:RA:108:ARG:HA	2.09	0.68
5:NA:61:LYS:HD3	3:TA:108:ARG:C	2.14	0.68
3:L3:84:ARG:NH1	11:a9:739:ASP:HB2	2.08	0.68
5:N3:14:LYS:CE	5:N3:50:LEU:HD23	2.23	0.68
2:U3:141:GLN:C	2:Q9:76:ASP:N	2.51	0.68
12:M4:301:CYC:HMB1	3:Y4:89:ILE:HD11	1.76	0.68
8:I5:110:ILE:HD12	9:i5:15:LYS:CB	2.24	0.68
8:c5:120:GLN:HG3	1:f5:53:LYS:NZ	2.09	0.68
8:U5:91:LEU:O	8:U5:104:ILE:HD11	1.94	0.68
10:j5:844:GLN:NE2	10:j5:916:PHE:H	1.91	0.68
10:k5:1089:LEU:HD22	10:k5:1089:LEU:O	1.93	0.68
3:F6:126:SER:CB	12:F6:201:CYC:HMC1	2.23	0.68
8:K7:63:PRO:O	8:K7:65:VAL:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B8:120:LEU:CD2	4:M8:52:LEU:HB3	2.22	0.68
9:x7:3:ARG:CZ	9:x7:67:VAL:HG12	2.15	0.68
12:Q8:201:CYC:HC	12:Q8:201:CYC:CMD	1.99	0.68
3:Y8:87:GLU:O	3:Y8:91:ARG:HG3	1.94	0.68
5:Z8:39:PRO:HA	12:Z8:301:CYC:NA	2.09	0.68
2:A9:38:MET:HE1	3:B9:28:THR:OG1	1.93	0.68
12:T9:302:CYC:HC	12:T9:302:CYC:CMD	1.98	0.68
11:a9:360:ALA:O	11:a9:364:THR:HG23	1.93	0.68
11:aA:415:GLU:CD	11:aA:415:GLU:H	2.00	0.68
3:LA:111:ASN:O	11:aA:532:ALA:HB2	1.91	0.68
4:MA:273:ILE:CD1	3:VA:75:PRO:HD2	2.20	0.68
3:H2:120:LEU:O	6:M2:251:LYS:NZ	2.27	0.68
6:M2:34:ARG:CG	8:O5:52:LYS:HD2	2.23	0.68
3:B4:112:GLY:C	3:B4:114:LYS:H	2.02	0.68
3:F4:109:CYS:O	4:M4:6:THR:HG23	1.93	0.68
1:N5:107:ARG:NH1	10:k5:482:GLN:OE1	2.27	0.68
12:I5:201:CYC:HB	12:I5:201:CYC:HMA3	1.59	0.68
12:d5:201:CYC:NB	10:j5:379:PHE:CZ	2.60	0.68
1:T5:53:LYS:NZ	8:U5:120:GLN:CD	2.30	0.68
8:U5:29:PHE:HE1	8:U5:98:ALA:C	2.01	0.68
6:M6:251:LYS:NZ	3:H6:120:LEU:O	2.27	0.68
8:A7:120:GLN:HG3	1:F7:53:LYS:NZ	2.09	0.68
9:i5:56:LEU:HD12	9:i5:56:LEU:N	2.08	0.68
10:j5:631:HIS:CB	10:j5:664:MET:HE1	2.22	0.68
10:k5:743:VAL:HG13	12:D7:201:CYC:CGD	2.24	0.68
10:k5:964:GLY:C	1:n7:69:GLY:HA2	2.16	0.68
12:D1:201:CYC:HC	12:D1:201:CYC:CMD	1.99	0.68
8:Q7:63:PRO:O	8:Q7:65:VAL:N	2.26	0.68
3:B8:82:CYS:HB2	12:B8:202:CYC:OC	1.94	0.68
12:B8:202:CYC:CHA	4:M8:54:ALA:HB2	2.24	0.68
9:y7:9:ALA:HB1	9:y7:44:ILE:HD13	1.75	0.68
4:M8:198:ALA:HB2	5:Z8:55:PRO:HG2	1.74	0.68
4:M8:230:GLN:CG	12:M8:301:CYC:OB	2.40	0.68
4:M8:260:ARG:NH1	4:M8:260:ARG:HG3	2.09	0.68
12:M8:301:CYC:HAB2	3:Y8:92:TYR:CD2	2.28	0.68
2:N8:63:PHE:HB2	2:N8:66:LEU:HD12	1.70	0.68
12:S8:201:CYC:HC	12:S8:201:CYC:CMD	1.98	0.68
3:L9:84:ARG:NH2	11:a9:406:LEU:HA	2.08	0.68
3:L9:90:LEU:HD23	3:L9:90:LEU:C	2.19	0.68
2:I9:97:LEU:HD13	2:I9:97:LEU:C	2.18	0.68
11:a9:598:SER:HB3	11:a9:599:PRO:CD	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:642:GLU:HB2	11:a9:766:ASN:O	1.93	0.68
3:FA:150:ARG:CD	3:F9:150:ARG:CG	2.56	0.68
2:QA:68:GLN:HG3	2:QA:69:PRO:HD3	1.74	0.68
12:QA:201:CYC:HBA1	3:TA:67:ILE:CG2	2.23	0.68
12:F3:201:CYC:HBA2	4:M3:36:TYR:CE2	2.29	0.68
5:N3:34:LEU:HB3	3:T3:84:ARG:NH1	2.08	0.68
3:L4:71:GLY:HA2	11:aA:82:GLN:HG2	1.72	0.68
4:M4:214:GLY:HA3	5:Z4:28:HIS:CG	2.28	0.68
12:K5:201:CYC:O1D	1:J5:62:TYR:CE1	2.46	0.68
8:A5:126:VAL:HA	12:A5:201:CYC:CBC	2.23	0.68
9:i5:14:LEU:CD1	9:i5:15:LYS:N	2.54	0.68
10:j5:820:HIS:HD1	10:j5:859:ILE:HD12	1.45	0.68
10:j5:931:VAL:CG1	1:J7:29:ALA:HB1	2.17	0.68
10:j5:931:VAL:HG23	1:J7:30:TYR:HA	1.75	0.68
10:k5:501:ILE:HD12	10:k5:501:ILE:N	2.06	0.68
10:k5:1052:PRO:HA	1:l7:106:GLU:OE2	1.92	0.68
8:i7:25:ARG:NH1	8:s7:7:ALA:N	2.40	0.68
8:i7:47:ARG:CD	1:j7:18:TYR:CD1	2.77	0.68
8:i7:90:ARG:HH12	1:j7:13:ASP:CG	2.00	0.68
1:V7:53:LYS:NZ	8:W7:120:GLN:OE1	2.26	0.68
8:a7:29:PHE:HE1	8:a7:98:ALA:C	2.02	0.68
8:c7:63:PRO:O	8:c7:65:VAL:N	2.27	0.68
3:B8:92:TYR:OH	12:B8:202:CYC:HAB2	1.94	0.68
3:D8:116:THR:OG1	4:M8:38:PRO:CA	2.42	0.68
4:M8:91:VAL:HG22	2:P8:15:GLN:HA	1.75	0.68
4:M8:104:ALA:CA	2:P8:14:SER:CB	2.43	0.68
4:M9:71:PRO:HG2	4:M9:74:LEU:HB2	1.75	0.68
5:N9:14:LYS:HD3	5:N9:14:LYS:H	1.57	0.68
5:Z8:37:HIS:CE1	12:Z8:301:CYC:NB	2.56	0.68
5:Z8:41:GLN:C	12:Z8:301:CYC:CMA	2.66	0.68
11:aA:439:ARG:HG3	11:aA:439:ARG:NH1	2.08	0.68
11:aA:586:LEU:HD22	11:aA:586:LEU:N	2.05	0.68
11:aA:823:ILE:HD11	3:L1:75:PRO:HG2	1.74	0.68
1:Z:158:SER:HB3	1:X5:11:ASN:CG	2.12	0.68
2:OA:60:TYR:CE2	2:OA:79:GLN:NE2	2.61	0.68
3:J2:108:ARG:NH2	6:M2:155:ASN:CG	2.51	0.68
12:K5:201:CYC:HB	12:K5:201:CYC:HMA3	1.58	0.68
8:O5:24:ASP:O	8:O5:27:LYS:N	2.26	0.68
8:G5:25:ARG:HH21	8:S5:25:ARG:CB	2.04	0.68
1:d5:67:ARG:HH12	10:j5:705:THR:CB	2.07	0.68
12:a5:201:CYC:HB	12:a5:201:CYC:HMA3	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:586:LEU:HD12	10:j5:607:LEU:CD2	2.23	0.68
10:j5:878:GLU:HG3	9:w7:28:PHE:CE2	2.27	0.68
8:O7:29:PHE:HE1	8:O7:98:ALA:C	2.01	0.68
8:i7:94:TYR:CD1	1:j7:9:ILE:HG23	2.29	0.68
3:B8:119:ALA:O	4:M8:15:PHE:CE2	2.47	0.68
8:s7:91:LEU:O	8:s7:104:ILE:HD11	1.94	0.68
9:x7:3:ARG:HG2	9:x7:59:GLY:HA3	1.76	0.68
2:X8:28:ASN:HD21	2:N8:33:ARG:NE	1.91	0.68
3:H9:72:ASN:ND2	12:H9:202:CYC:HBD2	2.09	0.68
2:I9:9:ILE:HD11	3:J9:99:ALA:HB2	1.74	0.68
2:A2:63:PHE:HB2	2:A2:66:LEU:HD12	1.70	0.68
3:F2:127:VAL:HG22	12:F2:201:CYC:H3C	1.74	0.68
3:LA:93:VAL:HG11	3:LA:164:PHE:CE2	2.29	0.68
4:MA:267:LEU:CD1	3:VA:119:ALA:O	2.40	0.68
2:O1:65:TYR:CE1	2:U1:65:TYR:CE1	2.82	0.68
3:L2:65:ASP:OD2	1:h7:64:ASP:CB	2.42	0.68
6:M2:39:ARG:HH11	8:O5:59:PHE:HD2	1.40	0.68
3:H4:84:ARG:CD	11:aA:131:TYR:CB	2.71	0.68
4:M4:86:ALA:HB3	3:Y4:77:ARG:HD2	1.75	0.68
4:M4:160:THR:HG22	4:M4:257:GLN:HB3	1.73	0.68
2:N4:38:MET:HE1	3:O4:28:THR:OG1	1.93	0.68
1:L5:75:THR:HB	8:G5:112:VAL:CA	2.23	0.68
12:L5:201:CYC:HBA1	10:j5:591:ILE:HG23	1.75	0.68
12:B5:201:CYC:HBB2	9:z5:21:ARG:CG	2.23	0.68
8:G5:71:ASN:OD1	12:G5:201:CYC:C2D	2.41	0.68
8:Q5:23:LEU:CD1	1:R5:42:ALA:HB2	2.24	0.68
1:T5:87:TYR:OH	10:j5:483:PHE:CE2	2.45	0.68
8:U5:75:GLU:CG	6:M6:36:ILE:CG1	2.71	0.68
10:j5:63:ASN:OD1	10:j5:63:ASN:N	2.22	0.68
10:k5:385:PRO:O	10:k5:386:ILE:HG22	1.94	0.68
10:k5:586:LEU:HD12	10:k5:607:LEU:CD2	2.23	0.68
10:k5:1052:PRO:HA	1:l7:106:GLU:CD	2.19	0.68
8:O7:60:GLN:NE2	1:v7:117:ASN:OD1	2.11	0.68
8:Q7:12:ASP:CG	9:z7:46:LYS:HE2	2.19	0.68
8:I7:102:THR:HB	8:I7:103:PRO:HD2	1.76	0.68
8:W7:126:VAL:CG2	12:W7:201:CYC:CMC	2.72	0.68
3:B8:106:GLU:HA	3:B8:110:LEU:HB2	1.76	0.68
8:u7:5:THR:HG1	1:v7:3:ASP:CG	1.99	0.68
8:u7:23:LEU:HD13	1:v7:38:VAL:HG13	1.73	0.68
3:H8:119:ALA:CB	11:a9:266:ASN:CB	2.60	0.68
4:M8:129:GLU:N	4:M8:142:PHE:HZ	1.89	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O8:104:VAL:C	5:Z8:61:LYS:CE	2.60	0.68
3:Q8:84:ARG:HH11	5:Z8:29:HIS:CG	2.11	0.68
3:L9:120:LEU:HA	11:a9:539:GLY:CA	2.23	0.68
4:M9:148:LYS:CD	4:M9:197:ASP:OD1	2.37	0.68
5:Z8:26:LEU:HD21	12:Z8:301:CYC:OB	1.93	0.68
3:H9:120:LEU:HD13	12:H9:202:CYC:C1A	2.24	0.68
2:I9:1:MET:HE1	2:I9:108:TYR:HE1	1.59	0.68
2:K9:15:GLN:HA	11:a9:393:ARG:CD	2.23	0.68
11:a9:622:ALA:HB3	11:a9:625:ASP:HB2	1.76	0.68
11:aA:666:ASN:CB	12:aA:901:CYC:HB	2.01	0.68
3:LA:108:ARG:HA	11:aA:531:ASP:HB2	1.76	0.68
4:MA:132:LEU:CD1	4:MA:142:PHE:HB2	2.24	0.68
12:R1:201:CYC:OB	5:N1:54:LEU:HD12	1.94	0.68
3:L3:1:MET:CG	3:L3:104:VAL:CG1	2.72	0.68
3:H4:14:LEU:CD2	11:aA:85:ALA:HA	2.21	0.68
4:M4:141:GLU:HG3	4:M4:145:LEU:HD12	1.75	0.68
8:K5:63:PRO:O	8:K5:65:VAL:N	2.27	0.68
8:O5:102:THR:CB	8:O5:103:PRO:CD	2.64	0.68
1:B5:14:VAL:HG11	10:k5:555:ALA:CA	2.24	0.68
8:E5:17:TYR:CB	1:F5:45:SER:HB3	2.23	0.68
12:e5:201:CYC:HB	12:e5:201:CYC:HMA3	1.59	0.68
1:f5:5:ILE:HD12	10:j5:46:PHE:CE1	2.29	0.68
8:U5:102:THR:HB	8:U5:103:PRO:HD2	1.76	0.68
8:W5:23:LEU:CD1	1:X5:42:ALA:HB2	2.24	0.68
6:M6:65:VAL:CB	1:b7:59:ALA:O	2.42	0.68
9:z5:18:ARG:HD3	9:z5:18:ARG:N	2.09	0.68
10:k5:1008:PHE:CZ	12:p7:201:CYC:NB	2.62	0.68
8:Q7:25:ARG:NE	8:C7:25:ARG:HH22	1.92	0.68
8:i7:24:ASP:HB3	8:s7:99:GLY:O	1.94	0.68
8:U7:91:LEU:O	8:U7:104:ILE:HD11	1.94	0.68
8:m7:27:LYS:O	8:m7:30:VAL:CG2	2.42	0.68
8:q7:68:PRO:HB2	11:aA:334:LYS:HZ2	1.59	0.68
2:X8:68:GLN:OE1	3:T9:24:LEU:O	2.10	0.68
12:M8:301:CYC:HAB1	3:Y8:88:ILE:CG2	2.24	0.68
12:M8:301:CYC:C3B	3:Y8:88:ILE:HG21	2.24	0.68
4:M9:1:MET:HA	11:a9:422:SER:O	1.92	0.68
2:O9:65:TYR:CE1	2:U9:65:TYR:CE1	2.82	0.68
3:J9:108:ARG:CA	11:a9:517:ALA:HA	2.23	0.68
11:a9:339:GLU:N	11:a9:339:GLU:OE2	2.27	0.68
11:a9:415:GLU:CD	11:a9:415:GLU:H	2.00	0.68
11:a9:574:ASP:OD1	11:a9:574:ASP:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:643:LEU:HD11	11:a9:689:VAL:HG23	1.75	0.68
11:aA:377:VAL:CG1	11:aA:390:ALA:CB	2.71	0.68
11:aA:643:LEU:HD11	11:aA:689:VAL:HG21	1.76	0.68
3:FA:37:ARG:N	3:FA:156:LEU:HD21	2.09	0.68
12:J3:202:CYC:C2A	11:a9:798:SER:OG	2.42	0.68
2:K3:28:ASN:HD21	2:A3:33:ARG:NE	1.91	0.68
3:B4:115:GLU:C	4:M4:56:MET:HE3	2.19	0.68
4:M3:132:LEU:CD1	4:M3:142:PHE:HB2	2.24	0.68
2:O3:33:ARG:NE	2:Y3:28:ASN:HD21	1.91	0.68
3:S4:82:CYS:SG	12:S4:202:CYC:HBC2	2.34	0.68
4:M4:86:ALA:CB	3:Y4:77:ARG:NH1	2.57	0.68
8:O5:29:PHE:HE1	8:O5:98:ALA:C	2.01	0.68
5:Z4:20:ILE:HD11	5:Z4:22:LEU:HB3	1.76	0.68
8:A5:71:ASN:OD1	12:A5:201:CYC:C2D	2.41	0.68
1:f5:3:ASP:OD2	10:j5:21:MET:HB2	1.93	0.68
10:j5:965:GLN:H	1:t7:69:GLY:C	2.01	0.68
10:k5:238:ARG:HH11	10:k5:238:ARG:CG	2.07	0.68
10:k5:386:ILE:CG2	10:k5:395:SER:N	2.37	0.68
1:D7:75:THR:HB	8:E7:112:VAL:N	2.09	0.68
8:i7:50:ILE:HA	8:i7:136:VAL:HG11	1.76	0.68
8:i7:54:ALA:HB2	8:i7:133:MET:HA	1.76	0.68
8:i7:63:PRO:O	8:i7:65:VAL:N	2.27	0.68
2:A8:65:TYR:CE1	2:G8:65:TYR:CE1	2.82	0.68
8:s7:29:PHE:HE1	8:s7:98:ALA:C	2.01	0.68
2:X8:69:PRO:CG	2:S9:39:GLU:N	2.57	0.68
4:M8:140:ARG:O	4:M8:143:VAL:HB	1.93	0.68
4:M8:179:TYR:CE1	4:M8:230:GLN:HG3	2.29	0.68
3:O8:119:ALA:HB3	5:Z8:72:GLU:HG3	1.76	0.68
3:F9:68:ARG:CZ	3:Z9:68:ARG:CZ	2.72	0.68
12:V9:202:CYC:HC	12:V9:202:CYC:CMD	1.99	0.68
11:aA:703:LYS:O	11:aA:708:HIS:CD2	2.46	0.68
11:aA:813:PRO:O	3:L1:119:ALA:HB1	1.93	0.68
3:JA:114:LYS:HD3	8:S7:60:GLN:NE2	2.09	0.67
3:TA:32:LYS:HD3	2:X4:57:GLN:HE22	1.48	0.67
2:A1:16:GLY:HA2	11:aA:677:GLN:CD	2.18	0.67
2:G2:65:TYR:CE1	2:A2:65:TYR:CE1	2.82	0.67
3:B4:82:CYS:HA	12:B4:202:CYC:C4C	2.25	0.67
2:O3:65:TYR:CE1	2:U3:65:TYR:CE1	2.82	0.67
3:L4:88:ILE:CD1	11:aA:239:TYR:CZ	2.76	0.67
8:K5:80:LEU:HD13	12:K5:201:CYC:HAD2	1.76	0.67
12:d5:201:CYC:O2A	10:j5:379:PHE:HD2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W5:63:PRO:O	8:W5:65:VAL:N	2.26	0.67
10:k5:931:VAL:CG2	1:D7:30:TYR:N	2.52	0.67
10:k5:1150:TYR:OH	11:a9:39:PRO:HD3	1.93	0.67
2:A6:65:TYR:CE1	2:G6:65:TYR:CE1	2.82	0.67
8:S7:120:GLN:HG3	1:X7:53:LYS:NZ	2.09	0.67
8:C7:27:LYS:O	8:C7:30:VAL:CG2	2.42	0.67
8:g7:90:ARG:HA	1:h7:18:TYR:CE2	2.29	0.67
1:b7:76:ARG:HB2	8:c7:110:ILE:HG13	1.75	0.67
8:c7:16:ARG:O	1:d7:90:ARG:CD	2.31	0.67
2:T8:65:TYR:CE1	2:N8:65:TYR:CE1	2.82	0.67
3:Q8:84:ARG:NH1	5:Z8:29:HIS:HD2	1.89	0.67
4:M9:267:LEU:CD1	3:V9:119:ALA:O	2.40	0.67
5:Z8:20:ILE:HD11	5:Z8:22:LEU:HB3	1.76	0.67
11:a9:283:GLN:HB3	11:a9:284:PRO:HD2	0.70	0.67
11:aA:574:ASP:OD1	11:aA:574:ASP:N	2.27	0.67
11:aA:786:GLU:OE1	3:H1:115:GLU:CB	2.40	0.67
5:N1:20:ILE:HD11	5:N1:22:LEU:HB3	1.77	0.67
1:Z:13:ASP:CG	8:e5:107:ILE:CD1	2.67	0.67
2:SA:42:ARG:NE	2:X4:69:PRO:CD	2.46	0.67
2:A1:65:TYR:CE1	2:G1:65:TYR:CE1	2.82	0.67
12:J3:201:CYC:HC	12:J3:201:CYC:CMD	1.99	0.67
6:M2:131:ASN:HB2	12:F2:201:CYC:HMA1	1.77	0.67
2:A3:16:GLY:HA2	11:a9:677:GLN:CD	2.18	0.67
3:B3:127:VAL:CA	12:B3:202:CYC:HMC1	2.24	0.67
3:B4:85:ASP:H	12:B4:202:CYC:HAC1	1.57	0.67
3:B4:116:THR:CB	4:M4:56:MET:HB2	2.15	0.67
3:D4:107:ASP:HB3	11:aA:109:ASN:HB3	1.76	0.67
5:N3:33:GLY:C	3:T3:84:ARG:HD2	2.17	0.67
3:S4:82:CYS:SG	12:S4:202:CYC:CAC	2.82	0.67
1:L5:10:ASN:HB2	9:i5:65:THR:OG1	1.94	0.67
12:Y4:201:CYC:HC	12:Y4:201:CYC:CMD	1.99	0.67
5:Z4:22:LEU:O	12:Z4:301:CYC:HMA2	1.94	0.67
8:A5:110:ILE:O	1:F5:76:ARG:HB2	1.93	0.67
8:A5:115:MET:HE1	1:F5:75:THR:HG22	1.76	0.67
8:U5:27:LYS:O	8:U5:30:VAL:CG2	2.42	0.67
8:U5:79:ALA:HB1	6:M6:32:MET:CA	2.24	0.67
8:W5:126:VAL:CG2	12:W5:201:CYC:CMC	2.72	0.67
10:j5:238:ARG:HH11	10:j5:238:ARG:CG	2.07	0.67
10:j5:1102:TYR:O	10:j5:1106:PHE:O	2.12	0.67
10:k5:959:PHE:CD2	1:n7:67:ARG:NH1	2.63	0.67
10:k5:987:ASP:O	1:b7:106:GLU:CD	2.38	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:1125:ARG:HG2	1:n7:115:THR:OG1	1.93	0.67
8:G7:120:GLN:HG3	1:L7:53:LYS:NZ	2.09	0.67
8:k7:120:GLN:HG3	1:p7:53:LYS:NZ	2.09	0.67
1:Z7:67:ARG:HH11	11:a9:311:LEU:HD13	1.59	0.67
3:B8:92:TYR:OH	12:B8:202:CYC:CAB	2.42	0.67
8:o7:63:PRO:O	8:o7:65:VAL:N	2.27	0.67
1:v7:139:GLY:C	11:aA:342:ARG:CD	2.67	0.67
12:H8:201:CYC:CBB	11:a9:259:ALA:CA	2.72	0.67
12:K8:201:CYC:HMD1	12:K8:201:CYC:NC	2.09	0.67
3:L9:56:ALA:HA	3:L9:86:MET:HE1	1.76	0.67
3:Y8:104:VAL:HA	3:Y8:108:ARG:HB2	1.75	0.67
3:J9:108:ARG:NH2	11:a9:515:GLY:O	2.27	0.67
5:NA:20:ILE:HD11	5:NA:22:LEU:HB3	1.77	0.67
2:QA:25:GLN:HB3	2:UA:4:VAL:HG21	1.76	0.67
2:QA:162:SER:C	2:WA:118:ARG:HD3	2.18	0.67
2:A3:63:PHE:O	2:A3:66:LEU:CG	2.39	0.67
3:D3:111:ASN:ND2	4:M3:65:ARG:HD2	2.10	0.67
2:A4:65:TYR:CE1	2:G4:65:TYR:CE1	2.82	0.67
5:N3:22:LEU:HD23	5:N3:26:LEU:CD1	1.83	0.67
5:N3:22:LEU:HD11	5:N3:26:LEU:HD21	1.71	0.67
5:N3:23:SER:O	5:N3:25:THR:N	2.26	0.67
4:M4:215:GLU:H	5:Z4:28:HIS:N	1.92	0.67
12:M4:301:CYC:HAC1	3:Y4:82:CYS:CB	2.23	0.67
3:O4:120:LEU:CD2	5:Z4:14:LYS:NZ	2.57	0.67
8:E5:63:PRO:O	8:E5:65:VAL:N	2.27	0.67
1:J5:74:THR:HG1	1:J5:77:ARG:HD3	1.59	0.67
1:P5:114:GLU:OE1	10:k5:496:GLU:HG3	1.94	0.67
8:S5:14:GLU:OE2	10:j5:538:PHE:HE2	1.77	0.67
1:b5:114:GLU:CB	10:k5:491:THR:OG1	2.41	0.67
6:M6:104:ARG:CZ	2:G6:16:GLY:N	2.57	0.67
9:i5:18:ARG:HD3	9:i5:18:ARG:N	2.09	0.67
10:k5:17:PHE:HD1	10:k5:19:THR:HG22	1.60	0.67
10:k5:642:ARG:HH11	10:k5:642:ARG:CG	2.07	0.67
10:k5:1125:ARG:NH2	1:n7:114:GLU:HB3	2.07	0.67
8:O7:27:LYS:O	8:O7:30:VAL:CG2	2.42	0.67
8:Q7:126:VAL:CG2	12:Q7:201:CYC:CMC	2.72	0.67
8:C7:29:PHE:HE1	8:C7:98:ALA:C	2.01	0.67
8:s7:27:LYS:O	8:s7:30:VAL:CG2	2.42	0.67
8:u7:34:GLU:HA	1:v7:28:LYS:HE2	1.75	0.67
8:u7:72:ALA:HB2	12:u7:201:CYC:C1C	2.25	0.67
4:M8:144:ARG:HG2	4:M8:204:ILE:HG21	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L9:51:ILE:CG2	3:L9:90:LEU:HD12	2.24	0.67
11:a9:30:MET:CG	11:a9:34:ILE:O	2.43	0.67
11:a9:439:ARG:HG3	11:a9:439:ARG:NH1	2.08	0.67
11:a9:584:ARG:O	11:a9:588:VAL:O	2.12	0.67
11:aA:714:ARG:CB	11:aA:808:LEU:O	2.41	0.67
11:aA:739:ASP:HB2	3:L1:84:ARG:NH1	2.09	0.67
1:A:16:GLY:HA2	8:a5:90:ARG:CZ	2.24	0.67
5:NA:70:ILE:HG21	3:TA:116:THR:CA	2.15	0.67
12:R1:201:CYC:CBB	5:N1:61:LYS:HZ2	2.06	0.67
3:B3:84:ARG:HH22	12:B3:202:CYC:CGA	2.07	0.67
2:A4:33:ARG:NE	2:K4:28:ASN:HD21	1.91	0.67
12:B4:202:CYC:CBB	4:M4:61:ASN:HD22	2.04	0.67
4:M3:268:ARG:C	3:V3:111:ASN:HD21	2.03	0.67
12:P3:202:CYC:HC	12:P3:202:CYC:CMD	1.99	0.67
3:H4:14:LEU:HD13	11:aA:85:ALA:HB1	1.76	0.67
12:L4:201:CYC:HC	12:L4:201:CYC:CMD	1.99	0.67
12:M5:201:CYC:HB	12:M5:201:CYC:HMA3	1.59	0.67
8:O5:27:LYS:O	8:O5:30:VAL:CG2	2.42	0.67
8:C5:91:LEU:O	8:C5:104:ILE:HD11	1.93	0.67
8:G5:100:ASP:CG	8:S5:20:PRO:HG2	2.20	0.67
1:V5:87:TYR:OH	10:j5:653:SER:HB3	1.94	0.67
6:M6:62:ARG:CZ	1:b7:57:ALA:O	2.40	0.67
10:j5:17:PHE:CD1	10:j5:19:THR:HG22	2.29	0.67
10:j5:732:ARG:NE	1:J7:69:GLY:HA3	2.10	0.67
10:j5:930:LEU:HB3	1:J7:33:THR:CB	2.24	0.67
10:j5:1060:GLU:O	10:j5:1063:THR:OG1	2.11	0.67
10:k5:542:GLN:NE2	10:k5:560:VAL:O	2.26	0.67
10:k5:965:GLN:CG	1:n7:69:GLY:O	2.38	0.67
10:k5:966:SER:N	1:p7:14:VAL:HG12	2.03	0.67
10:k5:1143:LEU:HG	8:k7:106:GLU:OE1	1.93	0.67
10:k5:1147:TYR:CD1	11:a9:35:ARG:HB2	2.30	0.67
8:I7:91:LEU:O	8:I7:104:ILE:HD11	1.94	0.67
8:g7:27:LYS:O	8:g7:30:VAL:CG2	2.42	0.67
8:g7:63:PRO:HG2	11:aA:334:LYS:HA	1.75	0.67
8:i7:47:ARG:NH1	1:j7:18:TYR:CG	2.62	0.67
8:i7:50:ILE:CG1	8:i7:137:ALA:HB2	2.24	0.67
8:k7:68:PRO:HB2	11:a9:334:LYS:HZ3	1.60	0.67
8:a7:27:LYS:O	8:a7:30:VAL:CG2	2.42	0.67
8:a7:161:GLN:CG	1:p7:49:THR:HG21	2.23	0.67
8:c7:17:TYR:CE2	1:d7:44:ILE:CG2	2.77	0.67
8:c7:89:LEU:CD1	8:c7:153:PHE:HZ	2.07	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:B8:202:CYC:HHA	4:M8:54:ALA:N	2.04	0.67
8:o7:23:LEU:CD1	1:p7:38:VAL:CG1	2.67	0.67
2:X8:69:PRO:CD	2:S9:42:ARG:NE	2.46	0.67
3:L8:109:CYS:O	12:a9:901:CYC:HBB2	1.94	0.67
3:L8:120:LEU:HD11	12:a9:901:CYC:HAA2	1.77	0.67
4:M8:235:PHE:HB3	12:M8:301:CYC:HMA1	1.76	0.67
2:N8:38:MET:HE1	3:O8:28:THR:OG1	1.93	0.67
4:M9:132:LEU:CD1	4:M9:142:PHE:HB2	2.24	0.67
4:M9:260:ARG:NH1	4:M9:260:ARG:HG3	2.09	0.67
2:I9:1:MET:HE2	2:I9:108:TYR:HE1	1.57	0.67
11:a9:714:ARG:CB	11:a9:808:LEU:O	2.41	0.67
3:F2:82:CYS:HA	12:F2:201:CYC:CHD	2.25	0.67
12:QA:201:CYC:HMA1	3:TA:79:MET:CG	2.24	0.67
2:SA:42:ARG:NH2	3:TA:24:LEU:HB3	2.07	0.67
3:TA:32:LYS:HZ2	2:X4:60:TYR:CB	2.06	0.67
12:UA:201:CYC:HMD1	12:UA:201:CYC:NC	2.09	0.67
12:B4:202:CYC:CHA	4:M4:54:ALA:CB	2.69	0.67
3:D4:77:ARG:HD2	4:M4:33:LEU:HD11	1.76	0.67
4:M3:245:ASP:CB	3:X3:108:ARG:O	2.41	0.67
4:M4:217:VAL:CG2	5:Z4:30:PRO:HD3	2.09	0.67
8:M5:110:ILE:HD12	10:k5:533:LEU:HD11	1.52	0.67
8:e5:27:LYS:O	8:e5:30:VAL:CG2	2.43	0.67
1:f5:18:TYR:HE2	10:j5:165:ARG:HA	1.59	0.67
8:a5:91:LEU:O	8:a5:104:ILE:HD11	1.94	0.67
10:j5:17:PHE:HD1	10:j5:19:THR:HG22	1.60	0.67
10:j5:385:PRO:O	10:j5:386:ILE:HG22	1.94	0.67
10:j5:542:GLN:O	10:j5:544:VAL:N	2.28	0.67
10:j5:774:GLN:HA	10:j5:774:GLN:NE2	2.07	0.67
8:O7:25:ARG:HH22	8:E7:25:ARG:HD3	1.57	0.67
8:E7:126:VAL:CG2	12:E7:201:CYC:CMC	2.72	0.67
3:D8:107:ASP:HB3	11:a9:109:ASN:HB3	1.77	0.67
3:F8:115:GLU:O	4:M8:3:VAL:HG11	1.94	0.67
12:G8:201:CYC:HMD1	12:G8:201:CYC:NC	2.09	0.67
4:M8:19:MET:HE2	4:M8:59:ILE:HD11	1.75	0.67
4:M8:71:PRO:HG2	4:M8:74:LEU:HB2	1.75	0.67
4:M8:210:ILE:CD1	5:Z8:25:THR:O	2.43	0.67
4:M9:8:SER:O	3:D9:108:ARG:HG2	1.94	0.67
4:M9:134:ASN:ND2	5:N9:1:MET:N	2.43	0.67
5:N9:20:ILE:HD11	5:N9:22:LEU:HB3	1.76	0.67
3:H9:92:TYR:OH	3:H9:108:ARG:NE	2.28	0.67
11:a9:377:VAL:CG1	11:a9:390:ALA:CB	2.71	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:708:HIS:CA	3:L1:108:ARG:HH21	2.08	0.67
12:B2:201:CYC:HC	12:B2:201:CYC:CMD	1.99	0.67
3:FA:37:ARG:HA	3:FA:156:LEU:HD21	1.77	0.67
2:SA:38:MET:HE2	2:X4:69:PRO:HD3	1.76	0.67
3:L2:65:ASP:OD2	1:h7:64:ASP:HB2	1.95	0.67
3:L3:1:MET:SD	3:L3:104:VAL:HG11	2.34	0.67
4:M3:164:ARG:HD3	4:M3:259:ARG:N	2.10	0.67
5:N3:54:LEU:HD12	12:R3:201:CYC:OB	1.94	0.67
4:M4:197:ASP:CG	5:Z4:52:ARG:CG	2.68	0.67
5:Z4:27:ALA:O	5:Z4:28:HIS:CD2	2.48	0.67
8:C5:27:LYS:O	8:C5:29:PHE:CA	2.42	0.67
1:P5:87:TYR:CE2	10:k5:649:PHE:HZ	2.11	0.67
8:Q5:16:ARG:HA	1:R5:90:ARG:NE	2.07	0.67
1:T5:53:LYS:HZ1	8:U5:120:GLN:HE21	0.67	0.67
1:V5:87:TYR:CE2	10:j5:649:PHE:CZ	2.83	0.67
8:Y5:120:GLN:HG3	1:b5:53:LYS:NZ	2.09	0.67
3:J6:88:ILE:HD11	6:M6:185:PHE:CE1	2.30	0.67
2:K6:28:ASN:HD21	2:A6:33:ARG:NE	1.91	0.67
10:j5:971:VAL:N	12:j5:1202:CYC:O1D	2.15	0.67
10:k5:1060:GLU:O	10:k5:1063:THR:OG1	2.11	0.67
1:J7:53:LYS:NZ	8:K7:120:GLN:OE1	2.26	0.67
8:c7:16:ARG:N	1:d7:90:ARG:CZ	2.52	0.67
8:u7:29:PHE:CD2	1:v7:31:PHE:CE1	2.58	0.67
3:F8:112:GLY:O	3:F8:114:LYS:N	2.26	0.67
3:F8:120:LEU:HD11	11:a9:147:ASN:ND2	2.10	0.67
2:I8:115:GLU:OE1	11:a9:133:LEU:CD2	2.39	0.67
4:M8:86:ALA:HB1	3:Y8:77:ARG:NH1	2.09	0.67
4:M8:164:ARG:HD3	4:M8:259:ARG:N	2.10	0.67
2:P8:18:PHE:N	3:Q8:91:ARG:HH21	1.69	0.67
12:F1:201:CYC:O2A	4:M1:35:THR:CA	2.40	0.67
4:M9:19:MET:HE2	4:M9:59:ILE:HD11	1.75	0.67
4:M9:164:ARG:HD3	4:M9:259:ARG:N	2.10	0.67
2:O9:38:MET:HE1	3:P9:28:THR:OG1	1.93	0.67
3:Y8:89:ILE:HA	3:Y8:92:TYR:HE2	0.84	0.67
3:Y8:89:ILE:CB	3:Y8:92:TYR:CZ	2.78	0.67
2:K9:15:GLN:O	11:a9:393:ARG:CZ	2.42	0.67
11:aA:598:SER:HB3	11:aA:599:PRO:CD	2.24	0.67
4:M1:222:ARG:HG3	4:M1:222:ARG:NH1	2.01	0.67
2:U1:43:ALA:O	2:U1:47:ASN:ND2	2.27	0.67
2:A2:38:MET:HE1	3:B2:28:THR:OG1	1.93	0.67
12:AA:201:CYC:HMD1	12:AA:201:CYC:NC	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FA:37:ARG:NH1	3:FA:159:GLU:OE1	2.27	0.67
2:KA:15:GLN:HA	11:aA:393:ARG:CD	2.25	0.67
3:LA:84:ARG:NH2	11:aA:406:LEU:HA	2.09	0.67
4:MA:134:ASN:HD21	5:NA:1:MET:H1	1.42	0.67
12:QA:201:CYC:HMD1	12:QA:201:CYC:NC	2.09	0.67
3:J3:120:LEU:HA	11:a9:803:ASN:HA	1.75	0.67
12:G2:201:CYC:HMD1	12:G2:201:CYC:NC	2.09	0.67
3:B3:68:ARG:HH12	3:V3:68:ARG:NH1	1.88	0.67
12:B1:202:CYC:HAA1	11:aA:684:ASN:ND2	2.07	0.67
3:O4:107:ASP:OD1	5:Z4:66:ARG:CZ	2.43	0.67
3:O4:119:ALA:CB	5:Z4:72:GLU:HB2	2.23	0.67
3:Q4:96:ALA:C	3:Q4:98:LEU:N	2.53	0.67
8:K5:20:PRO:HG2	8:U5:152:TYR:HA	1.75	0.67
8:M5:89:LEU:HB3	1:N5:18:TYR:OH	1.93	0.67
8:E5:80:LEU:HD13	12:E5:201:CYC:HAD2	1.76	0.67
8:Q5:126:VAL:CG2	12:Q5:201:CYC:CMC	2.72	0.67
8:U5:75:GLU:CG	6:M6:32:MET:HE1	2.24	0.67
8:a5:27:LYS:O	8:a5:30:VAL:CG2	2.42	0.67
10:j5:1125:ARG:CZ	1:t7:114:GLU:CB	2.70	0.67
10:k5:844:GLN:NE2	10:k5:916:PHE:H	1.92	0.67
10:k5:978:LEU:HD11	1:p7:107:ARG:HH22	1.57	0.67
10:k5:1147:TYR:HE1	11:a9:35:ARG:HB3	1.60	0.67
3:D1:68:ARG:HH12	3:X1:68:ARG:HH12	1.43	0.67
8:g7:22:GLU:HG2	8:g7:25:ARG:HH12	1.57	0.67
12:j7:201:CYC:C4B	9:y7:38:PHE:CE1	2.78	0.67
8:U7:27:LYS:O	8:U7:30:VAL:CG2	2.42	0.67
1:V7:75:THR:HB	8:W7:112:VAL:N	2.09	0.67
8:c7:92:VAL:HG23	8:c7:156:LEU:HD12	1.75	0.67
1:n7:75:THR:HB	8:o7:111:GLY:C	2.20	0.67
1:t7:75:THR:HB	8:u7:111:GLY:C	2.20	0.67
3:F8:108:ARG:HG2	4:M8:9:GLN:HG2	1.75	0.67
3:L8:84:ARG:HH22	12:a9:901:CYC:CGA	2.07	0.67
4:M8:235:PHE:HB2	12:M8:301:CYC:C2A	2.23	0.67
12:F1:201:CYC:HBA2	4:M1:36:TYR:CE2	2.29	0.67
3:L9:93:VAL:HG11	3:L9:164:PHE:CE2	2.29	0.67
4:M9:232:VAL:HG11	3:X9:111:ASN:N	2.10	0.67
2:O9:33:ARG:NE	2:Y9:28:ASN:HD21	1.91	0.67
12:H9:201:CYC:HC	12:H9:201:CYC:CMD	1.98	0.67
11:aA:735:VAL:O	12:aA:902:CYC:O2A	2.13	0.67
2:OA:33:ARG:NE	2:YA:28:ASN:HD21	1.92	0.67
2:QA:68:GLN:HB3	2:QA:69:PRO:HD2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:SA:42:ARG:HE	2:X4:69:PRO:N	1.93	0.67
2:G2:16:GLY:N	6:M2:104:ARG:CZ	2.57	0.67
3:H2:120:LEU:HA	6:M2:250:GLY:HA2	1.77	0.67
3:L4:70:GLY:O	3:L4:71:GLY:C	2.38	0.67
8:U5:76:LYS:CG	8:U5:77:MET:HE3	2.24	0.67
10:j5:793:SER:HB3	12:T7:201:CYC:HBA1	1.77	0.67
10:j5:816:ARG:HG2	10:j5:816:ARG:O	1.95	0.67
10:j5:822:ARG:HB2	10:j5:822:ARG:NH1	2.04	0.67
10:j5:822:ARG:CG	1:H7:106:GLU:OE2	2.43	0.67
10:j5:1145:PRO:HG2	1:r7:14:VAL:HG11	1.75	0.67
10:j5:1153:VAL:HG22	1:v7:125:ALA:CB	2.23	0.67
12:A6:201:CYC:HMD1	12:A6:201:CYC:NC	2.10	0.67
3:F6:78:ARG:CG	12:F6:201:CYC:CGD	2.73	0.67
1:R7:53:LYS:NZ	8:M7:120:GLN:HG3	2.09	0.67
8:K7:126:VAL:CG2	12:K7:201:CYC:CMC	2.72	0.67
8:k7:66:VAL:CG1	11:a9:65:LEU:CD2	2.72	0.67
8:a7:25:ARG:HE	8:o7:25:ARG:NH2	1.92	0.67
1:b7:75:THR:HB	8:c7:112:VAL:N	2.09	0.67
9:x7:9:ALA:HB1	9:x7:44:ILE:HD13	1.75	0.67
2:X8:69:PRO:HD3	2:S9:38:MET:HE2	1.76	0.67
4:M8:222:ARG:HG3	4:M8:222:ARG:NH1	2.01	0.67
2:N8:107:ASP:O	5:Z8:34:LEU:HD11	1.94	0.67
4:M9:274:VAL:OXT	3:V9:77:ARG:CZ	2.42	0.67
12:Z9:201:CYC:HC	12:Z9:201:CYC:CMD	1.98	0.67
11:aA:95:ILE:HG22	11:aA:99:ALA:H	1.60	0.67
11:aA:796:ALA:HB1	3:J1:113:LEU:HD13	1.75	0.67
12:K1:201:CYC:HMD1	12:K1:201:CYC:NC	2.10	0.67
5:N1:4:LEU:O	5:N1:4:LEU:HG	1.88	0.67
3:F2:82:CYS:SG	12:F2:201:CYC:C3C	2.83	0.67
4:MA:164:ARG:HD3	4:MA:259:ARG:N	2.10	0.67
2:S1:16:GLY:N	5:N1:31:TRP:HD1	1.92	0.67
4:M3:17:VAL:O	4:M3:44:SER:HA	1.95	0.67
5:N3:29:HIS:CD2	12:T3:301:CYC:OB	2.48	0.67
2:O3:38:MET:HE1	3:P3:28:THR:OG1	1.93	0.67
2:T4:65:TYR:CE1	2:N4:65:TYR:CE1	2.82	0.67
4:M4:17:VAL:O	4:M4:44:SER:HA	1.95	0.67
4:M4:164:ARG:HD3	4:M4:259:ARG:N	2.10	0.67
8:K5:72:ALA:HB2	12:K5:201:CYC:C1C	2.25	0.67
12:E5:201:CYC:HB	12:E5:201:CYC:HMA3	1.58	0.67
12:H5:201:CYC:HBB2	9:i5:21:ARG:HG3	1.77	0.67
1:d5:161:SER:OG	10:j5:695:GLY:O	2.13	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:U5:80:LEU:CG	6:M6:28:ASN:CB	2.52	0.67
1:V5:114:GLU:CG	10:j5:496:GLU:OE2	2.42	0.67
12:Z5:201:CYC:NB	10:k5:379:PHE:CZ	2.62	0.67
6:M6:45:ILE:HD12	8:c7:78:THR:HG22	1.74	0.67
6:M6:276:PRO:O	1:d7:62:TYR:O	2.11	0.67
10:k5:542:GLN:O	10:k5:544:VAL:N	2.28	0.67
10:k5:1008:PHE:HZ	1:p7:87:TYR:HE2	1.34	0.67
8:O7:91:LEU:O	8:O7:104:ILE:HD11	1.94	0.67
8:C7:91:LEU:O	8:C7:104:ILE:HD11	1.94	0.67
1:h7:75:THR:HG21	8:i7:112:VAL:HG23	1.77	0.67
8:i7:20:PRO:CD	8:s7:155:TYR:CG	2.76	0.67
8:u7:18:LEU:HD22	1:v7:97:LEU:CD1	2.20	0.67
4:M8:128:ALA:CA	4:M8:142:PHE:HE1	2.08	0.67
12:B9:202:CYC:HC	12:B9:202:CYC:CMD	1.99	0.67
11:a9:239:TYR:HD1	12:a9:901:CYC:O2A	1.76	0.67
11:a9:325:LEU:HD23	11:a9:325:LEU:H	1.60	0.67
11:aA:643:LEU:HD13	11:aA:766:ASN:CB	2.25	0.67
4:M1:268:ARG:C	3:V1:111:ASN:HD21	2.03	0.67
5:N1:34:LEU:CA	3:T1:84:ARG:HD3	2.25	0.67
1:Z:16:GLY:CA	8:e5:90:ARG:CZ	2.73	0.67
2:AA:65:TYR:CE1	2:GA:65:TYR:CE1	2.82	0.67
2:IA:9:ILE:HD11	3:JA:99:ALA:HB2	1.74	0.67
4:MA:160:THR:H	3:VA:108:ARG:HG2	1.59	0.67
4:MA:273:ILE:HD13	3:VA:75:PRO:HD2	1.77	0.67
2:OA:65:TYR:CE1	2:UA:65:TYR:CE1	2.82	0.67
12:O1:201:CYC:HMD1	12:O1:201:CYC:NC	2.10	0.67
2:I2:80:ALA:HB2	11:aA:297:ASP:OD2	1.94	0.67
12:C3:201:CYC:HMD1	12:C3:201:CYC:NC	2.09	0.67
12:L3:202:CYC:O2A	11:a9:735:VAL:O	2.11	0.67
5:N3:20:ILE:HD11	5:N3:22:LEU:HB3	1.77	0.67
4:M4:19:MET:HE2	4:M4:59:ILE:HD11	1.75	0.67
8:K5:20:PRO:HB3	8:U5:151:PHE:CB	2.25	0.67
1:B5:14:VAL:CG1	10:k5:555:ALA:HA	2.24	0.67
8:C5:29:PHE:HE1	8:C5:98:ALA:C	2.01	0.67
8:G5:25:ARG:HH22	8:S5:25:ARG:HE	1.43	0.67
8:I5:29:PHE:HE1	8:I5:98:ALA:C	2.01	0.67
12:K7:201:CYC:HMD1	12:K7:201:CYC:NC	2.02	0.67
8:u7:39:ILE:CD1	8:u7:145:ASP:HB3	2.24	0.67
8:u7:103:PRO:HB2	1:v7:9:ILE:HG21	1.70	0.67
9:y7:3:ARG:HG2	9:y7:59:GLY:HA3	1.76	0.67
3:O8:112:GLY:HA2	5:Z8:69:GLU:HA	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L9:38:LEU:CD2	2:K9:24:LEU:HD22	2.25	0.67
5:N9:7:ASP:N	3:R9:108:ARG:HA	2.09	0.67
12:A9:201:CYC:HMD1	12:A9:201:CYC:NC	2.10	0.67
11:a9:599:PRO:O	11:a9:600:THR:HB	1.94	0.67
11:a9:643:LEU:HD11	11:a9:689:VAL:HG21	1.75	0.67
11:aA:298:ILE:O	11:aA:299:PRO:C	2.38	0.67
11:aA:365:LYS:NZ	11:aA:365:LYS:HB2	2.10	0.67
5:N1:22:LEU:HD21	5:N1:26:LEU:CD2	2.08	0.67
5:N1:31:TRP:HB3	5:N1:32:PRO:CD	2.23	0.67
3:FA:43:ALA:CB	3:FA:142:VAL:HG22	2.26	0.66
2:IA:37:SER:O	2:IA:97:LEU:CG	2.43	0.66
12:QA:201:CYC:HBA1	3:TA:79:MET:HE3	1.77	0.66
3:J2:88:ILE:HD11	6:M2:185:PHE:CE1	2.30	0.66
3:B3:88:ILE:HD13	12:B3:202:CYC:C2B	2.24	0.66
3:L3:111:ASN:O	11:a9:711:SER:HB2	1.94	0.66
12:L3:201:CYC:HC	12:L3:201:CYC:CMD	1.99	0.66
4:M3:134:ASN:OD1	5:N3:1:MET:N	2.29	0.66
12:U3:201:CYC:HMD1	12:U3:201:CYC:NC	2.09	0.66
3:L4:68:ARG:CB	11:aA:82:GLN:HB2	2.18	0.66
4:M4:87:ILE:HD13	3:Y4:77:ARG:HG3	0.72	0.66
10:k5:929:PRO:CG	1:D7:147:LYS:CG	2.70	0.66
1:P7:75:THR:HB	8:Q7:112:VAL:N	2.09	0.66
8:I7:27:LYS:O	8:I7:30:VAL:CG2	2.42	0.66
8:g7:90:ARG:CZ	1:h7:16:GLY:CA	2.73	0.66
1:h7:46:SER:HB2	8:u7:157:VAL:CG1	2.24	0.66
8:i7:37:LEU:HD21	1:j7:31:PHE:CE2	2.30	0.66
12:W7:201:CYC:HMD1	12:W7:201:CYC:NC	2.02	0.66
8:o7:72:ALA:HB2	12:o7:201:CYC:C1C	2.25	0.66
2:N8:115:GLU:HB2	5:Z8:33:GLY:N	2.08	0.66
12:Q9:201:CYC:HMD1	12:Q9:201:CYC:NC	2.09	0.66
2:A9:65:TYR:CE1	2:G9:65:TYR:CE1	2.82	0.66
12:U9:201:CYC:HMD1	12:U9:201:CYC:NC	2.09	0.66
11:a9:95:ILE:HG22	11:a9:99:ALA:H	1.60	0.66
11:a9:643:LEU:CD1	11:a9:766:ASN:CB	2.73	0.66
11:aA:802:ARG:HB2	3:J1:120:LEU:CD2	2.24	0.66
12:L1:201:CYC:HC	12:L1:201:CYC:CMD	1.99	0.66
1:A:73:TYR:CD1	10:k5:162:TRP:CH2	2.83	0.66
4:MA:232:VAL:HG11	3:XA:111:ASN:N	2.10	0.66
3:H3:125:ARG:NE	8:k7:45:GLU:OE1	2.27	0.66
3:J3:113:LEU:HD13	11:a9:796:ALA:HB1	1.76	0.66
12:B3:201:CYC:HC	12:B3:201:CYC:CMD	1.99	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N3:34:LEU:CA	3:T3:84:ARG:HD3	2.25	0.66
3:U4:115:GLU:OE2	4:M4:70:SER:CB	2.42	0.66
3:F4:113:LEU:N	4:M4:5:THR:CG2	2.54	0.66
4:M4:71:PRO:HG2	4:M4:74:LEU:HB2	1.75	0.66
12:P4:201:CYC:HMD1	12:P4:201:CYC:NC	2.09	0.66
8:K5:152:TYR:CZ	8:U5:20:PRO:HB3	2.30	0.66
8:O5:102:THR:HB	8:O5:103:PRO:HD2	1.76	0.66
12:C1:201:CYC:HMD1	12:C1:201:CYC:NC	2.09	0.66
1:f5:161:SER:OXT	1:V5:101:PRO:HG3	1.94	0.66
10:j5:929:PRO:HG2	1:J7:147:LYS:CE	2.24	0.66
10:j5:934:ALA:HB2	1:J7:32:THR:HG23	1.75	0.66
10:k5:733:SER:CB	1:J7:154:ASP:OD2	2.42	0.66
10:k5:1016:LEU:HB2	10:k5:1044:ASN:HD22	1.58	0.66
3:D1:111:ASN:ND2	4:M1:65:ARG:HD2	2.10	0.66
8:O7:102:THR:CB	8:O7:103:PRO:CD	2.64	0.66
8:g7:151:PHE:HZ	1:v7:39:ARG:HG2	1.59	0.66
12:b7:201:CYC:HBB1	9:x7:21:ARG:NE	2.10	0.66
2:A8:38:MET:HE1	3:B8:28:THR:OG1	1.93	0.66
12:A8:201:CYC:HMD1	12:A8:201:CYC:NC	2.09	0.66
8:o7:39:ILE:CD1	8:o7:145:ASP:HB3	2.25	0.66
8:q7:49:ARG:NH1	3:H1:62:GLU:OE1	2.27	0.66
4:M8:29:PRO:HB3	11:a9:225:VAL:C	2.16	0.66
11:a9:249:GLU:C	11:a9:285:VAL:CG2	2.66	0.66
11:aA:643:LEU:HD11	11:aA:689:VAL:HG23	1.75	0.66
4:M1:17:VAL:O	4:M1:44:SER:HA	1.95	0.66
4:M1:118:TYR:CG	3:X1:84:ARG:NE	2.63	0.66
3:DA:108:ARG:HG2	4:MA:8:SER:O	1.94	0.66
3:HA:92:TYR:OH	3:HA:108:ARG:NE	2.28	0.66
4:MA:260:ARG:NH1	4:MA:260:ARG:HG3	2.09	0.66
2:G3:65:TYR:CE1	2:A3:65:TYR:CE1	2.82	0.66
12:Z3:201:CYC:HMA2	4:M3:188:LEU:HD22	1.76	0.66
3:B4:120:LEU:CG	4:M4:52:LEU:HB3	2.24	0.66
5:N3:31:TRP:HD1	2:S3:16:GLY:N	1.93	0.66
12:W3:201:CYC:HMD1	12:W3:201:CYC:NC	2.09	0.66
12:T4:201:CYC:HMD1	12:T4:201:CYC:NC	2.09	0.66
4:M4:215:GLU:CG	12:Z4:301:CYC:HAB1	2.24	0.66
12:K5:201:CYC:O2A	1:J5:62:TYR:N	2.26	0.66
1:L5:75:THR:HG22	8:G5:115:MET:HE1	1.76	0.66
8:G5:103:PRO:HA	10:j5:557:VAL:CG1	2.22	0.66
10:k5:1056:PRO:CD	10:k5:1057:LYS:N	2.57	0.66
3:F6:82:CYS:HG	12:F6:201:CYC:HAC2	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S7:19:SER:OG	8:G7:100:ASP:OD1	2.13	0.66
8:S7:66:VAL:HG12	8:S7:66:VAL:O	1.96	0.66
8:i7:92:VAL:HG23	8:i7:156:LEU:HD12	1.75	0.66
8:W7:66:VAL:HG12	8:W7:66:VAL:O	1.96	0.66
8:c7:50:ILE:HA	8:c7:136:VAL:HG11	1.77	0.66
2:E8:15:GLN:HG3	11:a9:163:ASP:CB	2.24	0.66
12:E8:201:CYC:HMD1	12:E8:201:CYC:NC	2.09	0.66
2:X8:69:PRO:HB2	2:S9:39:GLU:HA	1.73	0.66
4:M8:29:PRO:HG3	11:a9:226:PHE:HA	1.75	0.66
5:N9:31:TRP:HB3	5:N9:32:PRO:CD	2.23	0.66
11:aA:30:MET:HE3	11:aA:35:ARG:HA	1.76	0.66
11:aA:339:GLU:N	11:aA:339:GLU:OE2	2.27	0.66
11:aA:523:GLN:HE21	11:aA:548:LEU:HD13	1.60	0.66
11:aA:746:TYR:CB	2:K1:14:SER:CA	2.74	0.66
4:M1:164:ARG:HD3	4:M1:259:ARG:N	2.10	0.66
2:EA:33:ARG:CG	2:IA:25:GLN:NE2	2.58	0.66
2:IA:37:SER:CA	2:IA:97:LEU:HD21	2.20	0.66
3:LA:120:LEU:HA	11:aA:539:GLY:CA	2.25	0.66
4:MA:17:VAL:O	4:MA:44:SER:HA	1.95	0.66
4:MA:58:TYR:CD2	11:aA:496:ARG:CZ	2.72	0.66
5:NA:54:LEU:HD21	3:TA:84:ARG:CD	2.24	0.66
2:SA:39:GLU:N	2:X4:69:PRO:CG	2.57	0.66
3:J3:84:ARG:HH11	11:a9:668:TYR:CB	1.91	0.66
4:M4:215:GLU:N	5:Z4:27:ALA:CA	2.54	0.66
3:Q4:96:ALA:O	3:Q4:98:LEU:N	2.25	0.66
8:A5:112:VAL:CA	1:F5:75:THR:HB	2.23	0.66
12:C5:201:CYC:HB	12:C5:201:CYC:HMA3	1.59	0.66
8:I5:27:LYS:O	8:I5:29:PHE:CA	2.42	0.66
8:e5:102:THR:HB	8:e5:103:PRO:HD2	1.76	0.66
12:T5:201:CYC:HBB2	10:j5:482:GLN:CD	2.20	0.66
10:j5:1147:TYR:CD1	11:aA:35:ARG:HB2	2.29	0.66
10:k5:803:LYS:HZ1	9:z7:43:ARG:HH11	1.41	0.66
10:k5:978:LEU:HD13	1:p7:107:ARG:HH22	1.60	0.66
10:k5:1118:THR:HG23	12:k5:1204:CYC:CBA	2.25	0.66
8:g7:63:PRO:CG	11:aA:336:ILE:CG2	2.73	0.66
1:h7:75:THR:HB	8:i7:112:VAL:HA	1.77	0.66
8:i7:89:LEU:CD1	8:i7:153:PHE:HZ	2.07	0.66
8:c7:43:LEU:CD1	8:c7:141:LEU:HD21	2.26	0.66
8:c7:94:TYR:CD2	1:d7:9:ILE:HG23	2.29	0.66
3:U8:115:GLU:HG3	4:M8:71:PRO:HD2	1.77	0.66
12:M8:302:CYC:HAC2	3:S8:78:ARG:CA	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O8:115:GLU:CD	5:Z8:69:GLU:OE2	2.37	0.66
3:Q8:120:LEU:CD1	3:Q8:122:THR:HB	2.02	0.66
11:a9:338:VAL:CG2	11:a9:340:PRO:HD3	2.25	0.66
11:a9:643:LEU:HD12	11:a9:766:ASN:HB3	1.76	0.66
11:aA:30:MET:CG	11:aA:34:ILE:O	2.43	0.66
11:aA:377:VAL:O	11:aA:391:VAL:CG2	2.44	0.66
11:aA:599:PRO:O	11:aA:600:THR:HB	1.94	0.66
11:aA:644:ARG:O	11:aA:645:PRO:O	2.13	0.66
4:M1:132:LEU:CD1	4:M1:142:PHE:HB2	2.24	0.66
12:Q1:201:CYC:HMD1	12:Q1:201:CYC:NC	2.10	0.66
2:K3:14:SER:CA	11:a9:746:TYR:CB	2.73	0.66
6:M2:276:PRO:O	1:j7:63:SER:CA	2.34	0.66
7:N2:53:GLN:O	7:N2:57:ASN:HB2	1.96	0.66
2:E4:15:GLN:HG3	11:aA:163:ASP:CB	2.24	0.66
3:F4:115:GLU:O	4:M4:3:VAL:HG11	1.95	0.66
4:M4:144:ARG:HH12	5:Z4:59:ARG:HH22	1.42	0.66
4:M4:235:PHE:CZ	3:Y4:113:LEU:HD22	2.30	0.66
1:d5:161:SER:OG	10:j5:696:ARG:CA	2.44	0.66
8:Q5:159:ALA:O	8:Q5:160:MET:C	2.34	0.66
8:S5:66:VAL:O	8:S5:66:VAL:HG12	1.96	0.66
3:J6:84:ARG:CD	6:M6:185:PHE:CZ	2.58	0.66
2:A6:63:PHE:HB2	2:A6:66:LEU:HD12	1.70	0.66
8:a7:90:ARG:CZ	1:b7:16:GLY:CA	2.73	0.66
1:d7:110:ASN:ND2	9:x7:51:VAL:H	1.94	0.66
3:H8:81:ALA:HA	3:H8:84:ARG:NE	2.06	0.66
12:R8:201:CYC:HMD1	12:R8:201:CYC:NC	2.10	0.66
5:Z8:42:SER:HA	12:Z8:301:CYC:C3A	2.26	0.66
11:a9:92:LYS:HE3	11:a9:92:LYS:CA	2.26	0.66
11:aA:462:ARG:CG	11:aA:462:ARG:HH11	2.09	0.66
11:aA:622:ALA:HB3	11:aA:625:ASP:HB2	1.76	0.66
1:A:13:ASP:OD1	8:a5:107:ILE:HD13	1.96	0.66
3:HA:72:ASN:ND2	12:HA:202:CYC:HBD2	2.09	0.66
7:N2:48:LEU:HD23	12:N2:101:CYC:HAA1	1.77	0.66
2:A3:60:TYR:CG	2:A3:67:THR:CG2	2.79	0.66
12:B3:202:CYC:CMA	11:a9:684:ASN:HD22	2.09	0.66
12:F3:201:CYC:O2A	4:M3:35:THR:CA	2.40	0.66
4:M3:120:LEU:CD2	3:X3:84:ARG:HH11	2.00	0.66
5:N3:31:TRP:HB3	5:N3:32:PRO:CD	2.23	0.66
3:B1:88:ILE:CD1	12:B1:202:CYC:C3B	2.58	0.66
12:V4:201:CYC:HMD1	12:V4:201:CYC:NC	2.09	0.66
12:N4:201:CYC:HMD1	12:N4:201:CYC:NC	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q4:4:ALA:CB	3:Q4:99:ALA:O	2.43	0.66
3:Q4:124:THR:HG21	3:Q4:171:ILE:O	1.96	0.66
8:C5:6:LYS:O	8:C5:6:LYS:HE2	1.95	0.66
8:E5:109:ILE:HD12	8:E5:109:ILE:O	1.96	0.66
1:R5:120:GLY:O	10:k5:703:LEU:HD11	1.96	0.66
1:X5:144:ASP:HB3	8:a5:38:ARG:HH22	1.57	0.66
7:N6:1:MET:H1	7:N6:1:MET:HE2	1.60	0.66
7:N6:53:GLN:O	7:N6:57:ASN:HB2	1.96	0.66
10:j5:178:ILE:O	10:j5:178:ILE:HG12	1.94	0.66
10:j5:277:ILE:HG23	10:j5:284:PRO:N	2.11	0.66
10:k5:261:ILE:O	10:k5:261:ILE:HG13	1.96	0.66
10:k5:816:ARG:HG2	10:k5:816:ARG:O	1.95	0.66
8:K7:66:VAL:O	8:K7:66:VAL:HG12	1.96	0.66
8:k7:78:THR:HG21	11:a9:61:TYR:OH	1.95	0.66
12:X8:201:CYC:HMD1	12:X8:201:CYC:NC	2.09	0.66
4:M9:252:LEU:HD13	12:Z9:202:CYC:O1D	1.95	0.66
11:a9:89:ALA:HB1	11:a9:92:LYS:HZ2	1.59	0.66
11:a9:312:ASP:C	11:a9:314:SER:N	2.45	0.66
11:a9:595:ARG:HG3	11:a9:596:THR:N	2.11	0.66
11:aA:38:VAL:HG12	11:aA:39:PRO:HD2	1.78	0.66
11:aA:92:LYS:HE3	11:aA:92:LYS:CA	2.26	0.66
11:aA:106:LEU:HD23	11:aA:106:LEU:C	2.21	0.66
11:aA:584:ARG:O	11:aA:588:VAL:O	2.12	0.66
5:N1:29:HIS:CD2	12:T1:301:CYC:OB	2.48	0.66
12:C2:201:CYC:HMD1	12:C2:201:CYC:NC	2.10	0.66
4:MA:252:LEU:HD13	12:ZA:202:CYC:O1D	1.95	0.66
5:NA:50:LEU:HD22	12:TA:301:CYC:O1D	1.93	0.66
6:M2:278:ARG:NH2	1:j7:67:ARG:NH1	2.43	0.66
3:L3:1:MET:SD	3:L3:104:VAL:CG1	2.84	0.66
4:M3:246:ALA:CA	12:X3:201:CYC:HBB2	2.26	0.66
5:N3:37:HIS:CD2	12:T3:301:CYC:CMA	2.79	0.66
3:H4:84:ARG:CD	11:aA:131:TYR:CE1	2.73	0.66
4:M4:215:GLU:OE2	12:Z4:301:CYC:CAB	2.43	0.66
2:N4:112:GLY:CA	5:Z4:34:LEU:H	2.01	0.66
3:Q4:7:LYS:HD2	3:Q4:101:ASP:CG	2.21	0.66
5:Z4:41:GLN:HG2	12:Z4:301:CYC:HMB1	1.56	0.66
1:D5:87:TYR:HE2	9:z5:38:PHE:CE2	2.14	0.66
8:E5:66:VAL:HG12	8:E5:66:VAL:O	1.96	0.66
8:W5:66:VAL:O	8:W5:66:VAL:HG12	1.96	0.66
9:z5:56:LEU:HD12	9:z5:56:LEU:H	1.61	0.66
10:k5:17:PHE:CD1	10:k5:19:THR:HG22	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:362:LYS:CD	10:k5:363:HIS:HD2	1.82	0.66
10:k5:741:GLN:CG	1:D7:77:ARG:HH22	1.97	0.66
10:k5:934:ALA:HB3	1:D7:32:THR:HG22	1.77	0.66
10:k5:1005:LEU:CD1	10:k5:1016:LEU:HD21	2.26	0.66
10:k5:1125:ARG:CZ	1:n7:114:GLU:CB	2.74	0.66
3:D1:68:ARG:NH1	3:X1:68:ARG:HH12	1.94	0.66
8:i7:66:VAL:O	8:i7:66:VAL:HG12	1.96	0.66
8:a7:37:LEU:HD21	1:b7:27:LEU:HD12	1.77	0.66
8:o7:30:VAL:HG12	1:p7:31:PHE:CD1	2.31	0.66
8:q7:76:LYS:HZ3	11:aA:604:ALA:HB1	1.61	0.66
8:u7:23:LEU:HA	1:v7:38:VAL:CG2	2.25	0.66
4:M9:29:PRO:HD2	11:a9:378:GLU:OE1	1.95	0.66
4:M9:273:ILE:HD13	3:V9:75:PRO:HD2	1.77	0.66
5:N9:23:SER:O	5:N9:25:THR:N	2.26	0.66
5:Z8:21:ALA:CB	5:Z8:68:LEU:HD11	2.23	0.66
2:E9:33:ARG:CG	2:I9:25:GLN:NE2	2.58	0.66
11:a9:38:VAL:HG12	11:a9:39:PRO:HD2	1.78	0.66
11:a9:462:ARG:HH11	11:a9:462:ARG:CG	2.09	0.66
11:a9:629:LYS:HA	11:a9:629:LYS:HZ3	1.59	0.66
11:aA:524:MET:O	11:aA:524:MET:HG3	1.95	0.66
11:aA:595:ARG:HG3	11:aA:596:THR:N	2.11	0.66
4:M1:134:ASN:OD1	5:N1:1:MET:N	2.29	0.66
2:AA:60:TYR:CG	2:AA:67:THR:CG2	2.79	0.66
2:QA:120:PHE:CD2	3:TA:83:LEU:HD11	2.29	0.66
3:L2:75:PRO:CG	3:L2:78:ARG:HG3	2.25	0.66
6:M2:28:ASN:CA	8:O5:80:LEU:CD2	2.69	0.66
7:N2:49:LEU:HD11	3:B2:88:ILE:HD11	1.77	0.66
12:B1:202:CYC:HBA2	11:aA:684:ASN:N	2.09	0.66
2:G4:53:LYS:HE3	11:aA:71:ILE:HG23	1.77	0.66
4:M4:260:ARG:NH1	4:M4:260:ARG:HG3	2.09	0.66
3:O4:120:LEU:CD2	5:Z4:14:LYS:HZ2	2.09	0.66
3:Q4:72:ASN:ND2	12:Z4:301:CYC:HMD2	2.10	0.66
3:Y4:89:ILE:CB	3:Y4:92:TYR:CZ	2.78	0.66
3:Y4:110:LEU:CD2	3:Y4:167:ALA:HA	2.26	0.66
1:B5:2:GLN:OE1	10:k5:551:MET:CE	2.44	0.66
8:I5:6:LYS:HE2	8:I5:6:LYS:O	1.95	0.66
8:U5:66:VAL:HG12	8:U5:66:VAL:O	1.96	0.66
6:M6:278:ARG:H	1:d7:62:TYR:CB	2.09	0.66
10:j5:298:ARG:NH2	10:j5:310:LYS:HD3	2.09	0.66
10:j5:1064:LYS:CD	10:j5:1065:HIS:CD2	2.77	0.66
12:G6:201:CYC:HMD1	12:G6:201:CYC:NC	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:k7:66:VAL:HG12	8:k7:66:VAL:O	1.95	0.66
8:c7:12:ASP:N	1:d7:94:TYR:CZ	2.62	0.66
8:c7:66:VAL:HG12	8:c7:66:VAL:O	1.96	0.66
12:V8:201:CYC:HMD1	12:V8:201:CYC:NC	2.09	0.66
3:H8:14:LEU:CD2	11:a9:85:ALA:HA	2.21	0.66
4:M8:205:ASP:HB3	5:Z8:59:ARG:NH1	2.10	0.66
5:N9:20:ILE:HG21	5:N9:60:ILE:CD1	2.26	0.66
12:E9:201:CYC:HMD1	12:E9:201:CYC:NC	2.10	0.66
11:a9:56:ILE:HG22	11:a9:56:ILE:O	1.96	0.66
11:a9:360:ALA:HA	11:a9:363:GLN:NE2	2.11	0.66
12:T1:302:CYC:HC	12:T1:302:CYC:CMD	1.99	0.66
3:LA:56:ALA:HA	3:LA:86:MET:HE1	1.76	0.66
4:MA:134:ASN:ND2	5:NA:1:MET:N	2.43	0.66
5:NA:20:ILE:HG21	5:NA:60:ILE:CD1	2.26	0.66
2:OA:33:ARG:HE	2:YA:28:ASN:HD21	1.44	0.66
12:SA:201:CYC:HMD1	12:SA:201:CYC:NC	2.09	0.66
3:TA:28:THR:HG23	2:X4:67:THR:HB	1.66	0.66
3:D3:68:ARG:HH12	3:X3:68:ARG:HH12	1.43	0.66
3:L3:111:ASN:ND2	11:a9:807:GLN:O	2.28	0.66
5:N3:20:ILE:HD13	5:N3:60:ILE:HD13	1.78	0.66
3:F4:115:GLU:HB3	4:M4:3:VAL:CG1	2.14	0.66
12:H4:202:CYC:HC	12:H4:202:CYC:CMD	1.99	0.66
3:O4:107:ASP:OD1	5:Z4:66:ARG:NE	2.28	0.66
3:Y4:88:ILE:HA	3:Y4:91:ARG:CZ	2.25	0.66
8:G5:61:ILE:CG1	8:o7:67:SER:HB3	2.25	0.66
1:f5:18:TYR:CG	10:j5:165:ARG:HD3	2.26	0.66
1:f5:18:TYR:CG	10:j5:165:ARG:HG3	2.31	0.66
8:Y5:66:VAL:HG12	8:Y5:66:VAL:O	1.96	0.66
1:Z5:127:VAL:HG11	10:k5:697:PHE:C	2.17	0.66
7:N6:2:TYR:HD1	7:N6:2:TYR:H	1.39	0.66
10:j5:879:ASP:OD1	9:w7:25:ASN:ND2	2.29	0.66
1:f7:67:ARG:CZ	11:aA:307:ARG:HB3	2.23	0.66
2:A8:33:ARG:HE	2:K8:28:ASN:HD21	1.44	0.66
8:s7:66:VAL:HG12	8:s7:66:VAL:O	1.96	0.66
8:u7:2:SER:CB	1:v7:5:ILE:HB	2.26	0.66
2:G8:53:LYS:HE3	11:a9:71:ILE:HG23	1.78	0.66
12:H8:202:CYC:HC	12:H8:202:CYC:CMD	1.99	0.66
4:M8:128:ALA:CB	4:M8:142:PHE:CZ	2.78	0.66
4:M8:217:VAL:CG2	5:Z8:30:PRO:CD	2.71	0.66
4:M9:17:VAL:O	4:M9:44:SER:HA	1.95	0.66
12:J9:202:CYC:CGA	11:a9:511:LYS:HD2	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:360:ALA:HA	11:aA:363:GLN:OE1	1.96	0.66
11:aA:448:ASN:OD1	11:aA:474:PHE:CD1	2.49	0.66
11:aA:639:GLN:HE21	11:aA:639:GLN:C	2.04	0.66
5:NA:70:ILE:HG22	3:TA:119:ALA:HB3	1.71	0.66
2:S1:16:GLY:N	5:N1:31:TRP:CD1	2.64	0.66
3:D4:150:ARG:HG3	2:C1:140:SER:CB	2.10	0.66
2:O3:60:TYR:CG	2:O3:67:THR:CG2	2.79	0.66
3:O4:104:VAL:CG2	5:Z4:61:LYS:HE2	2.26	0.66
8:A5:121:THR:HG23	12:A5:201:CYC:C1C	2.25	0.66
8:E5:23:LEU:HD13	1:F5:42:ALA:HB2	1.78	0.66
1:H5:107:ARG:NE	9:i5:21:ARG:HD3	2.10	0.66
8:c5:59:PHE:CD2	6:M6:12:ILE:HD13	2.31	0.66
8:S5:115:MET:CE	1:X5:75:THR:HG22	2.26	0.66
8:W5:130:VAL:HG21	8:W5:160:MET:CE	2.26	0.66
1:Z5:124:ALA:HB1	10:k5:699:SER:HB3	1.77	0.66
10:j5:1054:SER:N	1:r7:106:GLU:O	2.29	0.66
10:k5:178:ILE:HG12	10:k5:178:ILE:O	1.94	0.66
10:k5:804:GLU:OE1	9:z7:30:LYS:HE3	1.95	0.66
10:k5:1055:SER:CB	12:k5:1203:CYC:CBB	2.60	0.66
1:R7:53:LYS:HZ1	8:M7:120:GLN:HG3	1.59	0.66
8:S7:64:ASP:OD2	8:I7:69:GLY:HA3	1.96	0.66
8:g7:102:THR:HB	8:g7:103:PRO:HD2	1.76	0.66
8:c7:96:ILE:HG13	8:c7:152:TYR:CB	2.23	0.66
12:c7:201:CYC:HMD1	12:c7:201:CYC:NC	2.02	0.66
8:q7:120:GLN:HG3	1:v7:53:LYS:NZ	2.09	0.66
4:M8:99:VAL:HB	3:Q8:1:MET:CE	2.23	0.66
5:Z8:14:LYS:HE2	5:Z8:50:LEU:CD2	2.26	0.66
5:Z8:20:ILE:HG21	5:Z8:60:ILE:CD1	2.26	0.66
5:Z8:22:LEU:HD21	5:Z8:26:LEU:CD2	2.08	0.66
5:Z8:42:SER:HA	12:Z8:301:CYC:HMA2	0.73	0.66
3:F9:36:LYS:HB2	3:F9:156:LEU:HD11	1.77	0.66
12:G9:201:CYC:HMD1	12:G9:201:CYC:NC	2.09	0.66
11:a9:106:LEU:HD23	11:a9:106:LEU:C	2.21	0.66
11:a9:714:ARG:HG2	11:a9:808:LEU:O	1.96	0.66
11:aA:587:THR:OG1	11:aA:588:VAL:N	2.29	0.66
11:aA:714:ARG:HG2	11:aA:808:LEU:O	1.96	0.66
5:N1:20:ILE:HD13	5:N1:60:ILE:HD13	1.78	0.66
3:FA:68:ARG:CZ	3:ZA:68:ARG:CZ	2.72	0.65
3:FA:158:ASN:OD1	3:FA:158:ASN:N	2.28	0.65
2:A1:60:TYR:CG	2:A1:67:THR:CG2	2.79	0.65
12:D4:201:CYC:HC	12:D4:201:CYC:CMD	1.99	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N3:39:PRO:HB3	3:T3:113:LEU:CA	2.18	0.65
4:M4:100:SER:N	3:Q4:1:MET:HE2	2.06	0.65
3:O4:112:GLY:O	5:Z4:70:ILE:CB	2.35	0.65
12:K5:201:CYC:O1D	1:J5:62:TYR:CZ	2.49	0.65
5:Z4:20:ILE:HD13	5:Z4:60:ILE:HD13	1.78	0.65
12:F5:201:CYC:HBB2	10:k5:588:VAL:HG21	1.78	0.65
1:d5:127:VAL:HB	10:j5:698:GLY:HA3	1.78	0.65
1:f5:19:LEU:HD11	10:j5:172:LEU:HD12	1.75	0.65
1:P5:114:GLU:HG3	10:k5:496:GLU:OE2	1.95	0.65
12:T5:201:CYC:O2A	10:j5:483:PHE:CE1	2.48	0.65
1:X5:50:THR:HG21	8:a5:49:ARG:HH12	1.53	0.65
10:k5:277:ILE:HG23	10:k5:284:PRO:N	2.11	0.65
10:k5:743:VAL:HG12	12:D7:201:CYC:CGD	2.26	0.65
8:k7:68:PRO:HG2	11:a9:334:LYS:CG	2.26	0.65
8:a7:66:VAL:HG12	8:a7:66:VAL:O	1.96	0.65
8:c7:54:ALA:HB2	8:c7:133:MET:HA	1.76	0.65
2:A8:60:TYR:CG	2:A8:67:THR:CG2	2.79	0.65
8:m7:66:VAL:O	8:m7:66:VAL:HG12	1.96	0.65
8:o7:39:ILE:HD11	8:o7:145:ASP:CB	2.26	0.65
8:q7:66:VAL:CG1	11:aA:61:TYR:CD1	2.79	0.65
8:u7:94:TYR:HH	1:v7:17:LYS:C	1.93	0.65
12:T8:201:CYC:HMD1	12:T8:201:CYC:NC	2.09	0.65
2:X8:69:PRO:N	2:S9:42:ARG:HE	1.93	0.65
4:M8:17:VAL:O	4:M8:44:SER:HA	1.95	0.65
3:L9:14:LEU:CD1	11:a9:358:PRO:HB2	2.24	0.65
12:L9:202:CYC:O2A	11:a9:404:TYR:N	2.29	0.65
4:M9:41:ASN:HD21	3:B9:119:ALA:CB	2.09	0.65
12:I9:201:CYC:HMD1	12:I9:201:CYC:NC	2.09	0.65
12:R9:202:CYC:HC	12:R9:202:CYC:CMD	1.99	0.65
11:a9:283:GLN:CG	11:a9:284:PRO:HD2	2.25	0.65
11:a9:365:LYS:NZ	11:a9:365:LYS:HB2	2.10	0.65
11:aA:620:ALA:O	3:H1:70:GLY:HA2	1.97	0.65
2:K1:115:GLU:CD	2:K1:118:ARG:HH12	2.04	0.65
3:HA:113:LEU:HD11	12:HA:202:CYC:C2B	2.25	0.65
2:IA:1:MET:HE1	2:IA:108:TYR:HE1	1.59	0.65
2:OA:60:TYR:CG	2:OA:67:THR:CG2	2.79	0.65
3:B3:82:CYS:SG	12:B3:202:CYC:HAC1	2.31	0.65
3:D4:150:ARG:HH11	2:C1:140:SER:CB	2.09	0.65
3:F4:110:LEU:HD11	3:F4:167:ALA:HA	1.78	0.65
4:M4:113:ILE:HD11	4:M4:143:VAL:CG2	2.21	0.65
2:N4:33:ARG:NE	2:X4:28:ASN:HD21	1.91	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O5:75:GLU:CD	8:i7:56:ASP:OD2	2.40	0.65
5:Z4:41:GLN:CG	12:Z4:301:CYC:C3B	2.68	0.65
8:I5:66:VAL:HG12	8:I5:66:VAL:O	1.96	0.65
8:c5:73:TYR:HE2	6:M6:9:ARG:HH12	1.41	0.65
8:Q5:130:VAL:HG21	8:Q5:160:MET:CE	2.26	0.65
8:S5:14:GLU:HG2	10:j5:538:PHE:HZ	1.58	0.65
8:S5:107:ILE:CD1	1:T5:13:ASP:CG	2.69	0.65
6:M6:250:GLY:HA2	3:H6:120:LEU:HA	1.77	0.65
7:N6:49:LEU:HD11	3:B6:88:ILE:HD11	1.77	0.65
10:j5:141:GLU:OE2	10:j5:141:GLU:N	2.24	0.65
10:j5:388:ARG:NH2	10:j5:392:SER:HA	2.10	0.65
10:k5:822:ARG:HB2	10:k5:822:ARG:NH1	2.04	0.65
10:k5:974:LEU:CG	1:p7:106:GLU:OE2	2.43	0.65
10:k5:1077:ILE:HG22	12:k5:1203:CYC:CBA	2.26	0.65
1:J7:75:THR:HB	8:K7:112:VAL:N	2.09	0.65
12:d7:201:CYC:C1B	9:x7:38:PHE:HE1	2.08	0.65
3:F8:106:GLU:O	4:M8:6:THR:O	2.13	0.65
3:H8:14:LEU:HD13	11:a9:85:ALA:HB1	1.77	0.65
3:F1:107:ASP:HB3	11:aA:646:ASN:ND2	2.11	0.65
3:H9:116:THR:HG21	11:a9:449:ASN:HD21	1.59	0.65
11:a9:524:MET:O	11:a9:524:MET:HG3	1.95	0.65
11:aA:99:ALA:CB	11:aA:100:PRO:HD3	2.02	0.65
11:aA:445:THR:O	11:aA:542:ALA:O	2.14	0.65
12:YA:201:CYC:HMD1	12:YA:201:CYC:NC	2.09	0.65
3:J2:84:ARG:CD	6:M2:185:PHE:CZ	2.58	0.65
3:D3:68:ARG:NH1	3:X3:68:ARG:HH12	1.94	0.65
4:M4:5:THR:C	4:M4:6:THR:HG1	1.97	0.65
4:M4:99:VAL:HB	3:Q4:1:MET:HE1	1.78	0.65
4:M4:214:GLY:CA	5:Z4:28:HIS:CD2	2.78	0.65
3:O4:111:ASN:O	5:Z4:67:ILE:HG22	1.96	0.65
8:A5:66:VAL:HG12	8:A5:66:VAL:O	1.96	0.65
8:A5:90:ARG:HD3	1:B5:18:TYR:CD1	2.31	0.65
8:E5:72:ALA:HB2	12:E5:201:CYC:C1C	2.25	0.65
12:J5:201:CYC:HBB2	9:i5:42:GLN:HE21	1.60	0.65
8:c5:66:VAL:HG12	8:c5:66:VAL:O	1.96	0.65
8:W5:17:TYR:HB2	1:X5:45:SER:HB3	1.76	0.65
1:Z5:83:ARG:CZ	10:k5:379:PHE:HE2	2.07	0.65
1:b5:114:GLU:HB3	10:k5:491:THR:OG1	1.96	0.65
7:N6:48:LEU:HD23	12:N6:101:CYC:HAA1	1.77	0.65
10:j5:965:GLN:N	1:t7:69:GLY:HA3	2.09	0.65
10:j5:1005:LEU:CD1	10:j5:1016:LEU:HD21	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:298:ARG:NH2	10:k5:310:LYS:HD3	2.09	0.65
10:k5:929:PRO:CB	1:D7:147:LYS:HG2	2.26	0.65
8:S7:161:GLN:NE2	1:H7:49:THR:HG22	2.11	0.65
8:E7:66:VAL:HG12	8:E7:66:VAL:O	1.96	0.65
8:g7:29:PHE:HE1	8:g7:98:ALA:C	2.02	0.65
8:Y7:66:VAL:HG12	8:Y7:66:VAL:O	1.96	0.65
8:u7:16:ARG:O	1:v7:94:TYR:CE1	2.49	0.65
2:X8:28:ASN:HD21	2:N8:33:ARG:HE	1.44	0.65
3:L8:68:ARG:C	3:L8:69:PRO:O	2.40	0.65
3:L8:82:CYS:HA	12:a9:901:CYC:C1D	2.25	0.65
3:L8:113:LEU:CD1	12:a9:901:CYC:CHB	2.74	0.65
12:M8:302:CYC:OC	3:S8:78:ARG:NE	2.28	0.65
2:I9:37:SER:O	2:I9:97:LEU:CG	2.43	0.65
11:aA:287:ALA:H	11:aA:289:THR:HG23	1.62	0.65
12:E2:201:CYC:HMD1	12:E2:201:CYC:NC	2.10	0.65
4:MA:273:ILE:HD13	3:VA:75:PRO:HG3	1.73	0.65
2:O1:60:TYR:CG	2:O1:67:THR:CG2	2.79	0.65
3:B3:127:VAL:N	12:B3:202:CYC:HMC1	2.11	0.65
4:M3:260:ARG:HG3	4:M3:260:ARG:NH1	2.09	0.65
12:S3:201:CYC:HMD1	12:S3:201:CYC:NC	2.10	0.65
12:H4:201:CYC:HAA1	11:aA:264:ASP:OD1	1.96	0.65
12:M4:301:CYC:C3B	3:Y4:88:ILE:HD12	2.27	0.65
1:N5:110:ASN:HD21	10:k5:692:LEU:HB2	1.51	0.65
12:D5:201:CYC:CBB	9:z5:42:GLN:NE2	2.59	0.65
8:G5:121:THR:HG23	12:G5:201:CYC:C1C	2.25	0.65
1:H5:14:VAL:CG1	10:j5:555:ALA:HA	2.26	0.65
8:I5:102:THR:HB	8:I5:103:PRO:HD2	1.76	0.65
8:c5:120:GLN:HG3	1:f5:53:LYS:HZ1	1.60	0.65
12:X5:201:CYC:HBB2	10:j5:520:ARG:CG	2.26	0.65
2:K6:28:ASN:HD21	2:A6:33:ARG:HE	1.44	0.65
8:A7:66:VAL:HG12	8:A7:66:VAL:O	1.96	0.65
10:j5:1069:ARG:HG3	10:j5:1069:ARG:HH11	1.61	0.65
10:j5:1070:ALA:HB1	10:j5:1071:PRO:CD	2.26	0.65
10:k5:985:ALA:O	10:k5:988:ALA:HB3	1.96	0.65
8:O7:66:VAL:HG12	8:O7:66:VAL:O	1.96	0.65
12:j7:201:CYC:HMA2	9:y7:38:PHE:HD1	1.60	0.65
8:e7:66:VAL:O	8:e7:66:VAL:HG12	1.96	0.65
8:o7:2:SER:CB	1:p7:5:ILE:HB	2.26	0.65
8:o7:17:TYR:OH	1:p7:89:LEU:HG	1.96	0.65
5:N9:70:ILE:CG2	3:T9:116:THR:HA	2.17	0.65
2:O9:60:TYR:CG	2:O9:67:THR:CG2	2.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K9:15:GLN:HA	11:a9:393:ARG:HD2	1.79	0.65
11:a9:245:ALA:HB3	12:a9:901:CYC:CBB	2.26	0.65
11:a9:371:VAL:CG1	11:a9:507:PHE:CD2	2.80	0.65
11:a9:377:VAL:HG11	11:a9:390:ALA:C	2.21	0.65
11:a9:643:LEU:HD13	11:a9:766:ASN:CB	2.26	0.65
11:aA:821:ARG:CZ	3:L1:120:LEU:O	2.45	0.65
4:M1:188:LEU:HD22	12:Z1:202:CYC:HMA2	1.76	0.65
12:EA:201:CYC:HMD1	12:EA:201:CYC:NC	2.10	0.65
4:MA:263:PRO:CB	3:VA:119:ALA:HB2	2.11	0.65
4:MA:267:LEU:HD11	3:VA:120:LEU:HA	1.78	0.65
2:K3:28:ASN:HD21	2:A3:33:ARG:HE	1.44	0.65
6:M2:45:ILE:HD12	8:i7:78:THR:HG22	1.78	0.65
6:M2:57:GLU:CD	8:i7:76:LYS:HE3	2.22	0.65
5:N3:20:ILE:HG21	5:N3:60:ILE:CD1	2.26	0.65
12:E4:201:CYC:HMD1	12:E4:201:CYC:NC	2.09	0.65
3:F4:109:CYS:O	4:M4:6:THR:CG2	2.44	0.65
4:M4:100:SER:OG	2:P4:13:ASP:OD2	2.14	0.65
2:N4:112:GLY:HA2	5:Z4:33:GLY:C	2.21	0.65
3:Q4:52:ILE:HD11	3:Q4:87:GLU:HA	1.78	0.65
8:K5:29:PHE:CE1	8:K5:99:GLY:HA3	2.31	0.65
3:Y4:89:ILE:CA	3:Y4:92:TYR:CZ	2.76	0.65
1:B5:11:ASN:HA	10:k5:552:VAL:HG21	1.78	0.65
12:C5:201:CYC:HC	12:C5:201:CYC:CMD	2.10	0.65
8:G5:16:ARG:O	1:H5:94:TYR:OH	2.08	0.65
1:T5:87:TYR:HE2	10:j5:483:PHE:CE2	2.13	0.65
1:T5:110:ASN:OD1	10:j5:692:LEU:HB3	1.96	0.65
12:A7:201:CYC:CMD	12:A7:201:CYC:HC	2.10	0.65
9:z5:23:LEU:O	9:z5:23:LEU:HD12	1.96	0.65
9:i5:23:LEU:HD12	9:i5:23:LEU:O	1.96	0.65
10:j5:985:ALA:O	10:j5:988:ALA:HB3	1.96	0.65
10:k5:822:ARG:HG3	1:B7:106:GLU:OE2	1.96	0.65
10:k5:1064:LYS:HD2	10:k5:1065:HIS:CA	2.27	0.65
12:C7:201:CYC:HC	12:C7:201:CYC:CMD	2.10	0.65
1:H7:140:LEU:CD1	11:aA:561:ALA:CA	2.74	0.65
8:I7:102:THR:CB	8:I7:103:PRO:CD	2.64	0.65
8:g7:37:LEU:HD21	1:h7:27:LEU:HD12	1.77	0.65
8:o7:97:VAL:CG2	1:p7:19:LEU:HD11	2.26	0.65
8:o7:121:THR:HG23	12:o7:201:CYC:CMC	2.14	0.65
2:X8:74:TYR:HE1	2:S9:35:THR:HG23	1.41	0.65
4:M8:98:ASP:O	4:M8:99:VAL:HG23	1.95	0.65
4:M8:228:SER:HA	3:Y8:88:ILE:HD12	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O8:92:TYR:OH	3:O8:108:ARG:CD	2.38	0.65
3:Q8:102:ALA:CB	3:Q8:166:LYS:CD	2.64	0.65
3:L9:84:ARG:HH21	11:a9:406:LEU:HA	1.62	0.65
4:M9:274:VAL:H	3:V9:77:ARG:HG2	1.59	0.65
5:N9:20:ILE:HD13	5:N9:60:ILE:HD13	1.78	0.65
11:a9:734:PHE:CE1	11:a9:816:LEU:HD11	2.31	0.65
11:aA:708:HIS:CB	3:L1:108:ARG:NH2	2.35	0.65
11:aA:742:GLN:CG	3:L1:88:ILE:HD12	1.82	0.65
5:N1:21:ALA:CB	5:N1:68:LEU:HD11	2.23	0.65
3:FA:153:CYS:SG	12:F9:302:CYC:C4C	2.84	0.65
12:IA:201:CYC:HMD1	12:IA:201:CYC:NC	2.09	0.65
5:NA:1:MET:C	5:NA:3:VAL:N	2.50	0.65
2:QA:29:GLY:HA3	2:UA:25:GLN:O	1.97	0.65
2:QA:149:GLU:OE1	2:UA:21:ASN:OD1	2.15	0.65
4:M3:118:TYR:CG	3:X3:84:ARG:NE	2.63	0.65
5:N3:21:ALA:CB	5:N3:68:LEU:HD11	2.23	0.65
3:B1:111:ASN:OD1	4:M1:76:ALA:CB	2.45	0.65
12:J4:201:CYC:HMA3	11:aA:176:ASN:HD21	1.59	0.65
3:O4:107:ASP:CA	5:Z4:66:ARG:CB	2.74	0.65
8:M5:115:MET:CE	1:R5:75:THR:HG22	2.26	0.65
8:O5:76:LYS:CG	8:O5:77:MET:HE3	2.24	0.65
12:A5:201:CYC:HMD1	12:A5:201:CYC:NC	2.02	0.65
8:C5:66:VAL:O	8:C5:66:VAL:HG12	1.96	0.65
8:Q5:23:LEU:HD22	1:R5:38:VAL:HG13	1.79	0.65
8:U5:59:PHE:CD2	6:M6:37:GLU:CD	2.73	0.65
10:j5:77:VAL:HG11	10:j5:141:GLU:HG2	1.79	0.65
10:j5:182:ASN:N	10:j5:182:ASN:HD22	1.94	0.65
10:j5:194:CYS:HB2	12:j5:1201:CYC:HAC1	1.79	0.65
10:j5:964:GLY:C	1:t7:69:GLY:CA	2.68	0.65
10:k5:362:LYS:HD3	10:k5:362:LYS:C	2.21	0.65
10:k5:742:GLY:HA2	12:D7:201:CYC:O1D	1.96	0.65
2:A6:60:TYR:CG	2:A6:67:THR:CG2	2.79	0.65
3:F6:130:ALA:HB3	12:F6:201:CYC:HBC3	1.77	0.65
12:O7:201:CYC:CMD	12:O7:201:CYC:HC	2.10	0.65
8:Q7:66:VAL:HG12	8:Q7:66:VAL:O	1.96	0.65
8:i7:25:ARG:HH12	8:s7:6:LYS:CA	2.09	0.65
8:k7:64:ASP:HB3	11:a9:69:ARG:NH2	2.06	0.65
8:c7:54:ALA:HB2	8:c7:133:MET:CG	2.26	0.65
8:q7:66:VAL:O	8:q7:66:VAL:HG12	1.96	0.65
8:u7:30:VAL:HG12	1:v7:31:PHE:CD1	2.31	0.65
4:M8:128:ALA:CB	4:M8:142:PHE:HE1	2.09	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q8:84:ARG:NH1	5:Z8:36:THR:HG23	2.12	0.65
5:Z8:20:ILE:HD13	5:Z8:60:ILE:HD13	1.78	0.65
12:S9:201:CYC:HMD1	12:S9:201:CYC:NC	2.09	0.65
11:a9:274:LEU:O	11:a9:278:LEU:HD11	1.96	0.65
11:a9:639:GLN:HE21	11:a9:639:GLN:C	2.04	0.65
11:aA:89:ALA:HB1	11:aA:92:LYS:HZ2	1.60	0.65
5:N1:37:HIS:CD2	12:T1:301:CYC:CMA	2.79	0.65
3:DA:68:ARG:NH2	3:XA:68:ARG:CZ	2.56	0.65
4:MA:160:THR:CG2	4:MA:257:GLN:HB2	2.07	0.65
2:QA:33:ARG:NE	12:VA:202:CYC:CBB	2.53	0.65
3:Z3:119:ALA:CB	4:M3:263:PRO:CB	2.61	0.65
3:B4:119:ALA:CB	4:M4:69:ILE:CG2	2.61	0.65
2:C4:114:ARG:HH11	11:aA:134:GLU:CD	2.05	0.65
3:U4:108:ARG:C	4:M4:246:ALA:CB	2.70	0.65
12:K4:201:CYC:HMD1	12:K4:201:CYC:NC	2.09	0.65
3:L4:68:ARG:O	3:L4:69:PRO:C	2.38	0.65
8:K5:98:ALA:HA	1:L5:5:ILE:HG21	1.79	0.65
8:M5:107:ILE:CD1	1:N5:13:ASP:CG	2.69	0.65
12:O5:201:CYC:HC	12:O5:201:CYC:CMD	2.10	0.65
3:Y4:89:ILE:HA	3:Y4:92:TYR:HE2	0.84	0.65
8:A5:115:MET:HE3	12:A5:201:CYC:CHB	2.26	0.65
1:D5:62:TYR:CZ	12:E5:201:CYC:O1D	2.49	0.65
1:D5:62:TYR:N	12:E5:201:CYC:O2A	2.26	0.65
8:G5:115:MET:HE3	12:G5:201:CYC:CHB	2.26	0.65
12:I5:201:CYC:CMD	12:I5:201:CYC:HC	2.10	0.65
1:f5:30:TYR:HH	10:j5:47:PHE:HZ	0.70	0.65
8:a5:66:VAL:HG12	8:a5:66:VAL:O	1.96	0.65
10:j5:209:ASN:C	10:j5:209:ASN:HD22	2.05	0.65
10:j5:362:LYS:CD	10:j5:363:HIS:NE2	2.60	0.65
10:j5:1147:TYR:HE1	11:aA:35:ARG:HB3	1.59	0.65
10:k5:1151:GLN:CA	1:p7:122:PRO:HB3	2.24	0.65
12:g7:201:CYC:CMD	12:g7:201:CYC:HC	2.10	0.65
8:a7:63:PRO:CD	11:a9:336:ILE:HG21	1.87	0.65
12:B8:202:CYC:HHA	4:M8:54:ALA:CB	2.07	0.65
8:o7:36:ARG:HG2	8:o7:36:ARG:NH2	2.10	0.65
5:N9:14:LYS:HE2	5:N9:50:LEU:CD2	2.26	0.65
5:N9:16:PHE:HE2	5:N9:50:LEU:HA	1.62	0.65
5:Z8:29:HIS:HB2	5:Z8:31:TRP:HD1	1.61	0.65
12:C9:201:CYC:HMD1	12:C9:201:CYC:NC	2.10	0.65
11:a9:245:ALA:H	12:a9:901:CYC:HBB3	1.61	0.65
11:aA:707:PHE:HE2	3:L1:108:ARG:HH12	1.37	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M1:246:ALA:CA	12:X1:201:CYC:HBB2	2.26	0.65
2:A2:60:TYR:CG	2:A2:67:THR:CG2	2.79	0.65
2:IA:4:VAL:HG23	2:IA:100:GLY:O	1.96	0.65
2:KA:15:GLN:HA	11:aA:393:ARG:HD2	1.79	0.65
2:QA:33:ARG:HB3	2:UA:25:GLN:HG2	1.77	0.65
2:A4:33:ARG:HE	2:K4:28:ASN:HD21	1.44	0.65
3:B1:86:MET:HG3	12:B1:202:CYC:CBC	2.26	0.65
3:L4:68:ARG:CZ	11:aA:81:ASP:N	2.58	0.65
2:N4:60:TYR:CG	2:N4:67:THR:CG2	2.79	0.65
12:Q4:201:CYC:HC	12:Q4:201:CYC:CMD	1.99	0.65
12:L5:201:CYC:HMA3	10:j5:591:ILE:CG2	2.26	0.65
12:M5:201:CYC:CMD	12:M5:201:CYC:HC	2.10	0.65
5:Z4:20:ILE:HG21	5:Z4:60:ILE:CD1	2.26	0.65
1:D5:20:ASP:O	1:D5:21:GLY:C	2.33	0.65
8:Q5:66:VAL:HG12	8:Q5:66:VAL:O	1.96	0.65
12:S5:201:CYC:HC	12:S5:201:CYC:CMD	2.10	0.65
1:V5:114:GLU:OE1	10:j5:496:GLU:CG	2.44	0.65
1:Z5:28:LYS:HD3	1:t7:143:PRO:HG3	1.63	0.65
1:Z5:161:SER:OG	10:k5:695:GLY:O	2.14	0.65
12:a5:201:CYC:HC	12:a5:201:CYC:CMD	2.10	0.65
9:i5:11:ILE:CD1	9:i5:28:PHE:CE2	2.79	0.65
10:j5:953:LEU:HD11	8:u7:48:GLU:OE1	1.97	0.65
10:j5:1064:LYS:CG	10:j5:1065:HIS:H	2.10	0.65
8:g7:25:ARG:HH22	8:u7:25:ARG:NH1	1.89	0.65
8:i7:43:LEU:CD1	8:i7:141:LEU:HD21	2.26	0.65
8:W7:126:VAL:CG2	12:W7:201:CYC:HMC1	2.27	0.65
8:u7:29:PHE:CE2	1:v7:5:ILE:CD1	2.80	0.65
8:u7:39:ILE:HD11	8:u7:145:ASP:CB	2.26	0.65
8:u7:66:VAL:O	8:u7:66:VAL:HG12	1.96	0.65
8:u7:97:VAL:CG2	1:v7:19:LEU:HD11	2.26	0.65
4:M8:86:ALA:HB1	3:Y8:77:ARG:HH11	1.61	0.65
2:N8:115:GLU:HB3	5:Z8:33:GLY:N	2.11	0.65
5:Z8:22:LEU:HD23	5:Z8:26:LEU:CD1	1.83	0.65
5:Z8:37:HIS:NE2	12:Z8:301:CYC:C1A	2.59	0.65
5:Z8:38:GLU:HB2	12:Z8:301:CYC:HMB1	1.62	0.65
2:A9:60:TYR:CG	2:A9:67:THR:CG2	2.79	0.65
11:a9:448:ASN:OD1	11:a9:474:PHE:CD1	2.49	0.65
11:aA:377:VAL:HG11	11:aA:390:ALA:C	2.21	0.65
11:aA:629:LYS:HA	11:aA:629:LYS:HZ3	1.59	0.65
3:FA:145:PRO:HD2	12:F9:302:CYC:CMC	2.26	0.65
4:MA:159:CYS:C	3:VA:108:ARG:HG3	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:222:ARG:HG3	4:MA:222:ARG:NH1	2.01	0.65
12:QA:201:CYC:HMA1	3:TA:79:MET:HE3	1.79	0.65
12:J3:202:CYC:HBB2	11:a9:795:ASP:O	1.94	0.65
2:C3:140:SER:CB	3:D8:150:ARG:HG3	2.10	0.65
3:D3:68:ARG:NH2	3:X3:68:ARG:NH1	2.45	0.65
12:B4:202:CYC:CHA	4:M4:54:ALA:HB2	2.24	0.65
5:N3:31:TRP:CD1	2:S3:16:GLY:N	2.64	0.65
5:N3:61:LYS:HZ2	12:R3:201:CYC:CBB	2.09	0.65
3:F4:108:ARG:HE	4:M4:9:GLN:HG3	0.82	0.65
2:N4:112:GLY:HA2	5:Z4:33:GLY:CA	2.26	0.65
3:Q4:7:LYS:CD	3:Q4:101:ASP:OD1	2.44	0.65
1:L5:79:ALA:HB1	8:G5:114:GLU:HB2	1.79	0.65
8:G5:103:PRO:CA	10:j5:557:VAL:HG11	2.22	0.65
8:G5:107:ILE:HG13	10:j5:557:VAL:HG12	1.78	0.65
1:J5:20:ASP:O	1:J5:21:GLY:C	2.34	0.65
8:e5:66:VAL:HG12	8:e5:66:VAL:O	1.96	0.65
12:Y5:201:CYC:HC	12:Y5:201:CYC:CMD	2.10	0.65
1:b5:30:TYR:CE2	10:k5:47:PHE:CE1	2.84	0.65
10:j5:761:ARG:HD2	10:j5:761:ARG:C	2.21	0.65
10:j5:1064:LYS:HD2	10:j5:1065:HIS:CA	2.27	0.65
10:j5:1119:LEU:HD13	1:t7:87:TYR:CZ	2.32	0.65
10:k5:286:VAL:CG2	10:k5:324:LYS:O	2.45	0.65
10:k5:388:ARG:NH2	10:k5:392:SER:HA	2.10	0.65
12:I6:201:CYC:HMD1	12:I6:201:CYC:NC	2.10	0.65
8:K7:126:VAL:CG2	12:K7:201:CYC:HMC1	2.27	0.65
8:a7:10:ASN:HD22	8:o7:10:ASN:HD21	1.44	0.65
8:o7:16:ARG:O	1:p7:94:TYR:CE1	2.50	0.65
4:M8:215:GLU:CD	4:M8:215:GLU:C	2.65	0.65
3:F1:119:ALA:HB3	4:M1:41:ASN:HD21	1.62	0.65
4:M9:96:LYS:HE3	3:P9:111:ASN:ND2	2.12	0.65
3:F9:36:LYS:CB	3:F9:156:LEU:CD1	2.75	0.65
3:F9:68:ARG:CZ	3:Z9:68:ARG:HH22	2.09	0.65
3:F9:142:VAL:O	12:F9:303:CYC:HMC3	1.97	0.65
11:a9:287:ALA:H	11:a9:289:THR:HG23	1.62	0.65
11:a9:360:ALA:HA	11:a9:363:GLN:OE1	1.96	0.65
11:a9:445:THR:O	11:a9:542:ALA:O	2.14	0.65
11:aA:360:ALA:HA	11:aA:363:GLN:NE2	2.11	0.65
4:MA:274:VAL:N	3:VA:77:ARG:CG	2.38	0.65
5:NA:20:ILE:HD13	5:NA:60:ILE:HD13	1.78	0.65
3:S4:82:CYS:HB2	12:S4:202:CYC:HAC2	1.79	0.65
3:U4:120:LEU:HD21	12:U4:201:CYC:CBD	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:144:ARG:HG3	4:M4:204:ILE:HG21	1.76	0.65
8:M5:140:LEU:CD2	1:J7:140:LEU:HG	2.26	0.65
3:Y4:87:GLU:O	3:Y4:91:ARG:HG3	1.96	0.65
8:G5:90:ARG:HD3	1:H5:18:TYR:CD1	2.31	0.65
8:e5:29:PHE:HE1	8:e5:98:ALA:C	2.01	0.65
8:Q5:9:VAL:HG22	1:R5:107:ARG:HH12	1.61	0.65
10:j5:924:ASP:CG	1:J7:26:LYS:NZ	2.50	0.65
10:k5:209:ASN:HD22	10:k5:209:ASN:C	2.05	0.65
10:k5:252:ASP:OD1	10:k5:252:ASP:N	2.26	0.65
10:k5:1008:PHE:CD1	1:p7:87:TYR:OH	2.46	0.65
10:k5:1064:LYS:CD	10:k5:1065:HIS:CD2	2.77	0.65
10:k5:1064:LYS:CG	10:k5:1065:HIS:H	2.10	0.65
8:G7:66:VAL:O	8:G7:66:VAL:HG12	1.96	0.65
8:K7:25:ARG:HB3	8:U7:25:ARG:NH2	2.10	0.65
8:i7:47:ARG:CG	1:j7:18:TYR:CE2	2.78	0.65
8:o7:23:LEU:HA	1:p7:38:VAL:CG2	2.25	0.65
4:M8:99:VAL:HA	3:Q8:108:ARG:HH11	1.61	0.65
3:L9:111:ASN:O	11:a9:532:ALA:CA	2.45	0.65
4:M9:159:CYS:C	3:V9:108:ARG:HG3	2.21	0.65
5:Z8:16:PHE:HE2	5:Z8:50:LEU:HA	1.62	0.65
12:K9:201:CYC:HMD1	12:K9:201:CYC:NC	2.10	0.65
11:a9:245:ALA:HA	12:a9:901:CYC:OB	1.97	0.65
11:a9:414:ALA:CB	11:a9:428:PHE:HE1	2.10	0.65
11:aA:325:LEU:HD23	11:aA:325:LEU:H	1.60	0.65
11:aA:371:VAL:CG1	11:aA:507:PHE:HD2	2.10	0.65
11:aA:807:GLN:O	3:L1:111:ASN:ND2	2.30	0.65
3:HA:72:ASN:OD1	12:HA:202:CYC:CMD	2.45	0.64
12:LA:202:CYC:O2A	11:aA:404:TYR:N	2.29	0.64
5:NA:14:LYS:HE2	5:NA:50:LEU:CD2	2.26	0.64
2:QA:116:VAL:CG1	3:TA:79:MET:CG	2.75	0.64
2:SA:39:GLU:CA	2:X4:69:PRO:HB3	2.27	0.64
12:P1:202:CYC:HC	12:P1:202:CYC:CMD	1.99	0.64
4:M4:100:SER:H	3:Q4:1:MET:HE3	1.55	0.64
5:Z4:16:PHE:HE2	5:Z4:50:LEU:HA	1.62	0.64
1:B5:76:ARG:HD2	9:z5:14:LEU:C	2.22	0.64
8:E5:161:GLN:CD	1:P5:49:THR:CG2	2.70	0.64
8:Q5:17:TYR:HB2	1:R5:45:SER:HB3	1.76	0.64
8:W5:126:VAL:CG2	12:W5:201:CYC:HMC1	2.27	0.64
10:j5:642:ARG:HG2	10:j5:642:ARG:NH1	2.02	0.64
10:j5:1037:ARG:HG2	10:j5:1037:ARG:O	1.97	0.64
10:j5:1118:THR:HG21	1:t7:83:ARG:CZ	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:143:ILE:HD12	10:k5:146:ALA:HB3	1.80	0.64
10:k5:1070:ALA:HB1	10:k5:1071:PRO:CD	2.26	0.64
12:F6:202:CYC:HC	12:F6:202:CYC:CMD	1.98	0.64
8:C7:66:VAL:O	8:C7:66:VAL:HG12	1.96	0.64
8:I7:29:PHE:HE1	8:I7:98:ALA:C	2.01	0.64
8:g7:48:GLU:HA	11:aA:318:TRP:CZ3	2.25	0.64
8:i7:47:ARG:HD3	1:j7:18:TYR:CD1	2.30	0.64
1:T7:14:VAL:HG12	9:w7:64:ASN:HD21	1.59	0.64
12:U7:201:CYC:HC	12:U7:201:CYC:CMD	2.10	0.64
12:a7:201:CYC:HC	12:a7:201:CYC:CMD	2.10	0.64
12:d7:201:CYC:HMA2	9:x7:38:PHE:CD1	2.28	0.64
3:B8:116:THR:HG22	4:M8:53:LEU:HA	1.75	0.64
12:m7:201:CYC:HC	12:m7:201:CYC:CMD	2.10	0.64
8:o7:29:PHE:CE2	1:p7:5:ILE:CD1	2.80	0.64
9:z7:7:VAL:HG11	9:z7:37:TRP:CZ3	2.33	0.64
2:X8:16:GLY:C	4:M8:228:SER:HB3	2.22	0.64
4:M8:151:LEU:O	4:M8:155:ARG:HG3	1.98	0.64
2:N8:60:TYR:CG	2:N8:67:THR:CG2	2.79	0.64
3:O8:108:ARG:NE	5:Z8:61:LYS:HG2	1.85	0.64
3:Q8:82:CYS:CA	12:Z8:301:CYC:HAC2	2.21	0.64
3:Q8:89:ILE:CG1	3:Q8:92:TYR:HE2	2.10	0.64
3:L9:84:ARG:NE	11:a9:406:LEU:CD2	2.60	0.64
2:O9:33:ARG:HE	2:Y9:28:ASN:HD21	1.44	0.64
3:F9:36:LYS:CB	3:F9:156:LEU:HD11	2.26	0.64
11:a9:371:VAL:CG1	11:a9:507:PHE:HD2	2.10	0.64
11:a9:644:ARG:O	11:a9:645:PRO:O	2.13	0.64
11:aA:32:ARG:C	11:aA:33:MET:HG2	2.21	0.64
11:aA:804:ARG:NH2	3:J1:121:GLY:CA	2.60	0.64
4:M1:188:LEU:CD2	12:Z1:202:CYC:NB	2.59	0.64
5:N1:20:ILE:HG21	5:N1:60:ILE:CD1	2.26	0.64
3:FA:145:PRO:CG	12:F9:302:CYC:HMC3	2.13	0.64
3:HA:116:THR:HG21	11:aA:449:ASN:HD21	1.58	0.64
4:MA:148:LYS:CD	4:MA:197:ASP:OD1	2.37	0.64
12:OA:201:CYC:HMD1	12:OA:201:CYC:NC	2.09	0.64
3:B3:111:ASN:OD1	4:M3:76:ALA:CB	2.45	0.64
4:M4:215:GLU:CD	4:M4:215:GLU:C	2.65	0.64
4:M4:225:LYS:NZ	3:Y4:81:ALA:HB2	2.13	0.64
4:M4:232:VAL:CA	12:M4:301:CYC:CBB	2.76	0.64
8:K5:109:ILE:HD12	8:K5:109:ILE:O	1.96	0.64
5:Z4:14:LYS:HE2	5:Z4:50:LEU:CD2	2.26	0.64
8:A5:107:ILE:HD13	1:B5:13:ASP:OD1	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G5:12:ASP:CG	1:H5:91:TYR:CE1	2.75	0.64
8:G5:66:VAL:O	8:G5:66:VAL:HG12	1.96	0.64
10:j5:286:VAL:CG2	10:j5:324:LYS:O	2.45	0.64
10:j5:1155:ARG:HB3	10:j5:1155:ARG:NH2	2.07	0.64
10:k5:761:ARG:HD2	10:k5:761:ARG:C	2.21	0.64
12:S7:201:CYC:CMD	12:S7:201:CYC:HC	2.10	0.64
12:M7:201:CYC:HC	12:M7:201:CYC:CMD	2.10	0.64
8:g7:66:VAL:HG12	8:g7:66:VAL:O	1.96	0.64
12:j7:201:CYC:NB	9:y7:38:PHE:HE1	1.93	0.64
12:Y7:201:CYC:HC	12:Y7:201:CYC:CMD	2.10	0.64
2:C8:114:ARG:NH1	11:a9:134:GLU:OE1	2.30	0.64
8:u7:17:TYR:OH	1:v7:89:LEU:HG	1.96	0.64
4:M8:128:ALA:HB1	4:M8:142:PHE:HE1	1.56	0.64
12:M8:301:CYC:HMC3	3:Y8:122:THR:HG23	1.78	0.64
3:Y8:89:ILE:CG1	3:Y8:92:TYR:CE2	2.81	0.64
3:F9:43:ALA:CB	3:F9:142:VAL:HG22	2.27	0.64
11:aA:371:VAL:HG11	11:aA:507:PHE:HD2	1.61	0.64
11:aA:711:SER:HB2	3:L1:111:ASN:O	1.95	0.64
4:MA:29:PRO:HD2	11:aA:378:GLU:OE1	1.96	0.64
5:NA:53:LEU:HB3	12:TA:301:CYC:HAA1	1.76	0.64
12:WA:201:CYC:HMD1	12:WA:201:CYC:NC	2.10	0.64
3:B4:120:LEU:N	4:M4:52:LEU:HD13	2.12	0.64
3:L3:120:LEU:O	11:a9:821:ARG:CZ	2.45	0.64
5:N3:14:LYS:HE2	5:N3:50:LEU:CD2	2.26	0.64
8:K5:23:LEU:HD13	1:L5:42:ALA:HB2	1.78	0.64
12:H5:201:CYC:HBB2	9:i5:21:ARG:CA	2.22	0.64
12:e5:201:CYC:HC	12:e5:201:CYC:CMD	2.10	0.64
1:P5:123:ILE:HG22	10:k5:11:VAL:CG2	2.28	0.64
8:Q5:17:TYR:CZ	1:R5:44:ILE:HG21	2.16	0.64
8:W5:9:VAL:HG22	1:X5:107:ARG:HH12	1.60	0.64
10:j5:362:LYS:HD3	10:j5:362:LYS:C	2.22	0.64
10:j5:931:VAL:CG2	1:J7:30:TYR:CA	2.74	0.64
10:j5:1150:TYR:OH	11:aA:39:PRO:HD3	1.97	0.64
10:k5:66:MET:HE3	10:k5:66:MET:CA	2.23	0.64
10:k5:277:ILE:CG2	10:k5:284:PRO:HA	2.27	0.64
10:k5:1081:VAL:HG11	12:k5:1203:CYC:CMA	2.20	0.64
10:k5:1085:GLY:CA	1:l7:87:TYR:OH	2.46	0.64
2:C6:69:PRO:HG2	3:J8:125:ARG:NH1	2.11	0.64
12:E6:201:CYC:HMD1	12:E6:201:CYC:NC	2.10	0.64
8:Q7:126:VAL:CG2	12:Q7:201:CYC:HMC1	2.27	0.64
8:E7:126:VAL:HG22	12:E7:201:CYC:CMC	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:G7:201:CYC:HC	12:G7:201:CYC:CMD	2.10	0.64
1:H7:54:GLU:OE2	11:aA:563:PHE:HD2	1.81	0.64
8:i7:92:VAL:CG2	8:i7:156:LEU:CD1	2.69	0.64
12:k7:201:CYC:CMD	12:k7:201:CYC:HC	2.10	0.64
8:U7:66:VAL:HG12	8:U7:66:VAL:O	1.96	0.64
12:C8:201:CYC:HMD1	12:C8:201:CYC:NC	2.09	0.64
2:X8:69:PRO:HG2	2:S9:39:GLU:N	2.11	0.64
2:X8:108:TYR:CE1	4:M8:273:ILE:CD1	2.80	0.64
12:H8:201:CYC:HAA1	11:a9:264:ASP:OD1	1.98	0.64
4:M8:148:LYS:HE3	4:M8:197:ASP:CG	2.22	0.64
5:N9:22:LEU:HD21	5:N9:26:LEU:CD2	2.08	0.64
5:Z8:34:LEU:O	5:Z8:34:LEU:CG	2.44	0.64
11:a9:197:ILE:HD12	11:a9:278:LEU:HD22	1.78	0.64
11:a9:312:ASP:O	11:a9:314:SER:C	2.41	0.64
11:aA:425:VAL:HG21	11:aA:502:ASN:O	1.98	0.64
11:aA:800:THR:HG21	12:aA:901:CYC:HAA2	1.76	0.64
12:BA:202:CYC:HC	12:BA:202:CYC:CMD	1.99	0.64
12:KA:201:CYC:HMD1	12:KA:201:CYC:NC	2.10	0.64
4:MA:210:ILE:HD13	5:NA:59:ARG:HH11	1.62	0.64
6:M2:127:SER:CA	12:F2:201:CYC:O2A	2.40	0.64
2:A4:60:TYR:CG	2:A4:67:THR:CG2	2.79	0.64
5:N3:62:ARG:CZ	2:Q3:14:SER:HB2	2.26	0.64
8:K5:66:VAL:O	8:K5:66:VAL:HG12	1.96	0.64
8:O5:66:VAL:O	8:O5:66:VAL:HG12	1.96	0.64
8:Q5:126:VAL:HG22	12:Q5:201:CYC:CMC	2.27	0.64
8:U5:78:THR:HG22	6:M6:35:GLY:CA	2.24	0.64
8:W5:23:LEU:HD22	1:X5:38:VAL:HG13	1.79	0.64
1:b5:24:LEU:O	10:k5:54:ILE:HD13	1.98	0.64
1:b5:30:TYR:OH	10:k5:47:PHE:CE2	2.41	0.64
9:z5:11:ILE:CD1	9:z5:28:PHE:CE2	2.79	0.64
10:j5:889:LEU:HD23	12:J7:201:CYC:OB	1.97	0.64
8:i7:21:GLY:H	8:s7:101:VAL:HG22	0.53	0.64
8:o7:66:VAL:HG12	8:o7:66:VAL:O	1.96	0.64
12:s7:201:CYC:CMD	12:s7:201:CYC:HC	2.10	0.64
9:w7:18:ARG:HB3	9:w7:22:GLU:OE2	1.97	0.64
9:y7:40:GLU:OE2	9:y7:43:ARG:HD3	1.98	0.64
4:M8:227:GLN:HB2	4:M8:230:GLN:OE1	1.98	0.64
4:M8:232:VAL:HG21	3:Y8:113:LEU:HD21	1.79	0.64
3:O8:107:ASP:OD1	5:Z8:66:ARG:NH1	2.29	0.64
4:M9:151:LEU:O	4:M9:155:ARG:HG3	1.97	0.64
4:M9:210:ILE:HD13	5:N9:59:ARG:HH11	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:267:LEU:HD11	3:V9:120:LEU:HA	1.78	0.64
5:Z8:1:MET:C	5:Z8:3:VAL:N	2.50	0.64
11:aA:283:GLN:CG	11:aA:284:PRO:HD2	2.25	0.64
11:aA:312:ASP:O	11:aA:314:SER:C	2.41	0.64
3:H1:78:ARG:HA	12:H1:201:CYC:CMD	2.26	0.64
1:A:18:TYR:CE1	8:a5:90:ARG:HB2	2.33	0.64
2:AA:149:GLU:OE2	2:KA:21:ASN:ND2	2.31	0.64
3:FA:68:ARG:CZ	3:ZA:68:ARG:HH22	2.09	0.64
2:IA:4:VAL:HG11	2:IA:30:ARG:HB2	1.79	0.64
3:JA:119:ALA:CA	11:aA:365:LYS:CE	2.69	0.64
3:LA:14:LEU:HG	11:aA:358:PRO:HB2	1.75	0.64
3:LA:84:ARG:NE	11:aA:406:LEU:CD2	2.61	0.64
3:LA:111:ASN:OD1	11:aA:366:LEU:CD1	2.46	0.64
12:LA:202:CYC:HMA1	11:aA:534:SER:HB3	1.79	0.64
4:MA:96:LYS:HE3	3:PA:111:ASN:ND2	2.12	0.64
12:QA:201:CYC:CGD	3:TA:57:HIS:CD2	2.75	0.64
3:L2:75:PRO:CG	3:L2:78:ARG:CG	2.75	0.64
2:A3:63:PHE:HB2	2:A3:66:LEU:CG	2.28	0.64
12:F3:201:CYC:OB	4:M3:28:HIS:NE2	2.21	0.64
3:B4:119:ALA:HB2	4:M4:69:ILE:HD12	1.79	0.64
2:C4:114:ARG:NH1	11:aA:134:GLU:OE1	2.30	0.64
3:U4:108:ARG:CB	4:M4:246:ALA:CB	2.58	0.64
4:M4:197:ASP:CB	5:Z4:52:ARG:HG3	2.27	0.64
8:O5:76:LYS:CD	8:O5:77:MET:HE3	2.07	0.64
5:Z4:42:SER:HA	12:Z4:301:CYC:C3A	2.27	0.64
8:E5:29:PHE:CE1	8:E5:99:GLY:HA3	2.31	0.64
1:J5:76:ARG:NH1	9:i5:67:VAL:HG11	2.11	0.64
8:c5:90:ARG:HA	1:d5:18:TYR:CE2	2.33	0.64
1:f5:38:VAL:HG11	10:j5:40:VAL:HG12	1.80	0.64
1:b5:18:TYR:OH	10:k5:165:ARG:N	2.30	0.64
9:z5:16:ARG:O	9:z5:16:ARG:NE	2.26	0.64
10:j5:1146:THR:OG1	1:v7:71:MEN:HE21	1.98	0.64
10:k5:1015:TYR:O	10:k5:1017:ARG:N	2.30	0.64
10:k5:1054:SER:HG	1:l7:110:ASN:HB3	1.60	0.64
8:Q7:25:ARG:HE	8:C7:25:ARG:NH2	1.95	0.64
12:Q7:201:CYC:HMD1	12:Q7:201:CYC:NC	2.02	0.64
1:D7:76:ARG:N	8:E7:110:ILE:O	2.31	0.64
2:C8:114:ARG:HH11	11:a9:134:GLU:CD	2.05	0.64
8:m7:102:THR:HB	8:m7:103:PRO:HD2	1.76	0.64
8:o7:27:LYS:CD	1:p7:35:ALA:HB2	2.27	0.64
4:M8:56:MET:CE	4:M8:66:VAL:CG2	2.57	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N9:21:ALA:CB	5:N9:68:LEU:HD11	2.23	0.64
11:a9:32:ARG:C	11:a9:33:MET:HG2	2.21	0.64
11:a9:425:VAL:HG21	11:a9:502:ASN:O	1.98	0.64
11:a9:594:ARG:HH11	11:a9:594:ARG:CG	2.10	0.64
11:a9:624:GLY:O	11:a9:628:THR:HG23	1.92	0.64
11:aA:33:MET:O	11:aA:34:ILE:HD12	1.97	0.64
11:aA:56:ILE:HG22	11:aA:56:ILE:O	1.96	0.64
11:aA:197:ILE:HD12	11:aA:278:LEU:HD22	1.78	0.64
11:aA:274:LEU:O	11:aA:278:LEU:HD11	1.96	0.64
11:aA:537:ASP:HB3	11:aA:543:GLN:HB2	1.79	0.64
12:W1:201:CYC:HMD1	12:W1:201:CYC:NC	2.09	0.64
5:NA:21:ALA:CB	5:NA:68:LEU:HD11	2.23	0.64
5:NA:24:PRO:CG	5:NA:35:ASP:O	2.46	0.64
3:TA:24:LEU:HD22	2:X4:68:GLN:NE2	2.12	0.64
12:K3:201:CYC:HMD1	12:K3:201:CYC:NC	2.10	0.64
2:C3:140:SER:CB	3:D8:150:ARG:HH11	2.09	0.64
3:F3:119:ALA:HB3	4:M3:41:ASN:HD21	1.62	0.64
3:L3:115:GLU:HB2	11:a9:809:ARG:HH22	1.63	0.64
12:L4:202:CYC:HAB1	11:aA:239:TYR:HE1	1.61	0.64
4:M4:148:LYS:HE3	4:M4:197:ASP:CG	2.22	0.64
4:M4:197:ASP:O	5:Z4:52:ARG:NH2	2.31	0.64
8:A5:12:ASP:OD1	1:B5:91:TYR:OH	2.15	0.64
8:C5:26:ILE:O	8:C5:26:ILE:HG23	1.98	0.64
8:C5:102:THR:HB	8:C5:103:PRO:HD2	1.77	0.64
1:J5:118:SER:HB3	9:i5:56:LEU:HD11	1.78	0.64
12:c5:201:CYC:CMD	12:c5:201:CYC:HC	2.10	0.64
10:j5:277:ILE:CG2	10:j5:284:PRO:HA	2.27	0.64
10:j5:1153:VAL:O	10:j5:1155:ARG:HD2	1.97	0.64
10:k5:199:THR:CG2	12:k5:1201:CYC:HBC2	2.26	0.64
10:k5:547:ARG:HD2	10:k5:547:ARG:C	2.16	0.64
12:I7:201:CYC:HC	12:I7:201:CYC:CMD	2.10	0.64
2:A8:63:PHE:HB2	2:A8:66:LEU:CG	2.28	0.64
3:B8:82:CYS:CB	12:B8:202:CYC:OC	2.45	0.64
12:o7:201:CYC:CMD	12:o7:201:CYC:HC	2.10	0.64
9:w7:15:LYS:HE3	9:w7:16:ARG:HD3	1.79	0.64
4:M8:139:VAL:HG22	4:M8:216:ASN:HA	1.75	0.64
4:M8:235:PHE:CA	12:M8:301:CYC:HAA1	2.27	0.64
3:Q8:89:ILE:CG1	3:Q8:92:TYR:CE2	2.81	0.64
5:N9:53:LEU:HB3	12:T9:301:CYC:HAA1	1.76	0.64
3:H9:72:ASN:OD1	12:H9:202:CYC:CMD	2.45	0.64
11:aA:426:ARG:O	11:aA:426:ARG:HG3	1.91	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:XA:202:CYC:HC	12:XA:202:CYC:CMD	1.98	0.64
12:J3:202:CYC:HBA1	11:a9:667:THR:CG2	2.23	0.64
3:B3:127:VAL:HA	12:B3:202:CYC:HMC1	1.80	0.64
3:L4:68:ARG:C	3:L4:69:PRO:O	2.41	0.64
4:M4:104:ALA:CB	2:P4:13:ASP:C	2.66	0.64
8:M5:66:VAL:HG12	8:M5:66:VAL:O	1.96	0.64
3:Y4:93:VAL:HA	3:Y4:105:LEU:HD12	1.80	0.64
12:E5:201:CYC:CMD	12:E5:201:CYC:HC	2.10	0.64
8:G5:100:ASP:CG	8:S5:20:PRO:CG	2.71	0.64
1:f5:18:TYR:CZ	10:j5:165:ARG:CG	2.81	0.64
8:W5:126:VAL:HG22	12:W5:201:CYC:CMC	2.27	0.64
8:A7:90:ARG:HA	1:B7:18:TYR:CE2	2.33	0.64
10:j5:990:ARG:HH11	10:j5:990:ARG:CG	2.10	0.64
10:j5:1002:ARG:HG2	10:j5:1002:ARG:O	1.98	0.64
10:j5:1015:TYR:O	10:j5:1017:ARG:N	2.30	0.64
10:k5:426:LEU:HD12	10:k5:426:LEU:O	1.98	0.64
10:k5:990:ARG:HH11	10:k5:990:ARG:CG	2.10	0.64
10:k5:1139:SER:O	11:a9:32:ARG:NH1	2.23	0.64
8:G7:48:GLU:HG2	11:a9:578:MET:SD	2.38	0.64
8:I7:66:VAL:HG12	8:I7:66:VAL:O	1.96	0.64
8:M7:66:VAL:HG12	8:M7:66:VAL:O	1.96	0.64
8:W7:126:VAL:HG22	12:W7:201:CYC:CMC	2.27	0.64
3:B8:82:CYS:O	12:B8:202:CYC:CAC	2.41	0.64
8:o7:18:LEU:HD22	1:p7:97:LEU:CD1	2.20	0.64
8:s7:102:THR:HB	8:s7:103:PRO:HD2	1.76	0.64
3:L8:109:CYS:HA	12:a9:901:CYC:HAB2	1.79	0.64
5:Z8:38:GLU:CG	12:Z8:301:CYC:HMB2	2.28	0.64
11:a9:95:ILE:HD13	11:a9:237:PHE:CZ	2.33	0.64
11:a9:732:SER:HB3	11:a9:824:VAL:HG21	1.80	0.64
1:Z:110:ASN:O	10:j5:434:TRP:HA	1.98	0.64
2:AA:33:ARG:HE	2:KA:28:ASN:HD21	1.44	0.64
3:BA:119:ALA:CB	4:MA:41:ASN:HD21	2.09	0.64
4:MA:118:TYR:CD2	12:ZA:202:CYC:O2A	2.51	0.64
12:G3:201:CYC:HMD1	12:G3:201:CYC:NC	2.09	0.64
3:H3:70:GLY:HA2	11:a9:620:ALA:O	1.97	0.64
12:J3:202:CYC:HB	11:a9:666:ASN:CB	2.02	0.64
12:A3:201:CYC:HMD1	12:A3:201:CYC:NC	2.10	0.64
3:F3:119:ALA:HB2	4:M3:41:ASN:HD21	1.63	0.64
3:B4:119:ALA:HB3	4:M4:52:LEU:HD11	1.75	0.64
4:M4:85:VAL:HG12	4:M4:85:VAL:O	1.97	0.64
2:N4:118:ARG:HH12	5:Z4:32:PRO:HG3	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:K5:201:CYC:CMD	12:K5:201:CYC:HC	2.10	0.64
3:Y4:89:ILE:CG1	3:Y4:92:TYR:CE2	2.81	0.64
10:j5:1143:LEU:CD1	8:q7:103:PRO:HA	2.27	0.64
10:k5:542:GLN:NE2	10:k5:560:VAL:HG12	2.13	0.64
10:k5:984:ILE:C	10:k5:984:ILE:HD12	2.23	0.64
10:k5:1046:ARG:NH2	8:k7:9:VAL:CG1	2.58	0.64
10:k5:1069:ARG:HG3	10:k5:1069:ARG:HH11	1.60	0.64
10:k5:1076:GLU:O	10:k5:1078:SER:N	2.30	0.64
10:k5:1150:TYR:CE1	11:a9:38:VAL:HG13	2.31	0.64
8:g7:19:SER:CB	8:g7:20:PRO:CD	2.76	0.64
8:i7:25:ARG:HH21	8:s7:3:VAL:C	2.06	0.64
8:U7:102:THR:HB	8:U7:103:PRO:HD2	1.76	0.64
8:m7:27:LYS:O	8:m7:30:VAL:HG23	1.98	0.64
8:q7:90:ARG:HA	1:r7:18:TYR:CE2	2.33	0.64
2:X8:64:PRO:C	3:T9:25:ASN:CB	2.54	0.64
4:M8:200:ILE:CB	5:Z8:52:ARG:NH2	2.61	0.64
11:a9:371:VAL:HG12	11:a9:371:VAL:O	1.98	0.64
11:aA:61:TYR:O	11:aA:63:ASP:N	2.31	0.64
11:aA:734:PHE:CE1	11:aA:816:LEU:HD11	2.31	0.64
4:M1:120:LEU:CD2	3:X1:84:ARG:HH11	2.00	0.64
1:A:31:PHE:CE2	8:a5:37:LEU:HD11	2.31	0.64
1:Z:158:SER:HB2	1:X5:11:ASN:HD22	1.60	0.64
3:DA:115:GLU:OE2	4:MA:78:GLY:HA2	1.98	0.64
12:GA:201:CYC:HMD1	12:GA:201:CYC:NC	2.09	0.64
3:JA:78:ARG:CZ	11:aA:359:ASP:HA	2.15	0.64
3:LA:51:ILE:HD13	3:LA:90:LEU:HD11	1.79	0.64
4:MA:77:LEU:CD2	3:ZA:115:GLU:OE2	2.46	0.64
4:MA:153:LYS:NZ	2:UA:14:SER:OG	2.31	0.64
6:M2:34:ARG:HD2	8:O5:52:LYS:CB	2.24	0.64
3:D4:14:LEU:HD11	3:Y4:125:ARG:CD	2.13	0.64
3:D4:150:ARG:CG	2:C1:140:SER:HB3	2.10	0.64
2:O3:33:ARG:HE	2:Y3:28:ASN:HD21	1.45	0.64
12:V3:202:CYC:HC	12:V3:202:CYC:CMD	1.99	0.64
3:U4:112:GLY:HA2	4:M4:74:LEU:HD22	1.73	0.64
4:M4:58:TYR:HA	4:M4:61:ASN:ND2	2.13	0.64
3:Q4:77:ARG:H	5:Z4:34:LEU:HD13	1.63	0.64
8:A5:12:ASP:CG	1:B5:91:TYR:CE1	2.75	0.64
8:I5:26:ILE:HG23	8:I5:26:ILE:O	1.98	0.64
8:U5:59:PHE:HD2	6:M6:37:GLU:CD	2.04	0.64
9:z5:8:THR:HG22	9:z5:52:LEU:HD12	1.80	0.64
10:j5:1056:PRO:CD	10:j5:1057:LYS:N	2.57	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S7:90:ARG:HA	1:T7:18:TYR:CE2	2.33	0.64
8:E7:126:VAL:CG2	12:E7:201:CYC:HMC1	2.27	0.64
8:K7:126:VAL:HG22	12:K7:201:CYC:CMC	2.27	0.64
8:g7:107:ILE:HD13	1:h7:13:ASP:OD1	1.98	0.64
8:i7:25:ARG:HH11	8:s7:6:LYS:HG2	1.60	0.64
1:d7:107:ARG:O	9:x7:45:GLN:NE2	2.31	0.64
3:B8:68:ARG:HH22	3:U8:68:ARG:NH1	1.94	0.64
8:o7:48:GLU:O	8:o7:48:GLU:HG3	1.98	0.64
8:u7:23:LEU:HD22	1:v7:38:VAL:CG2	2.28	0.64
8:u7:97:VAL:CG2	1:v7:19:LEU:HD12	2.25	0.64
9:z7:18:ARG:HB3	9:z7:22:GLU:OE2	1.97	0.64
9:x7:40:GLU:OE2	9:x7:43:ARG:HD3	1.98	0.64
2:X8:69:PRO:CB	2:S9:39:GLU:CA	2.73	0.64
4:M8:190:ARG:HH11	4:M8:202:SER:HB3	1.63	0.64
12:M8:301:CYC:HMC1	3:Y8:127:VAL:CG2	2.28	0.64
3:Q8:117:TYR:C	3:Q8:120:LEU:HG	2.22	0.64
4:M9:78:GLY:HA2	3:D9:115:GLU:OE2	1.98	0.64
4:M9:153:LYS:NZ	2:U9:14:SER:OG	2.31	0.64
2:A9:33:ARG:HE	2:K9:28:ASN:HD21	1.44	0.64
3:D9:68:ARG:HH12	3:X9:65:ASP:HB3	1.63	0.64
2:I9:4:VAL:HG23	2:I9:100:GLY:O	1.96	0.64
11:a9:823:ILE:HD13	11:a9:823:ILE:O	1.98	0.64
11:aA:290:ASP:O	11:aA:291:TYR:HD1	1.73	0.64
5:N1:16:PHE:HE2	5:N1:50:LEU:HA	1.62	0.64
3:JA:65:ASP:OD2	11:aA:354:VAL:HG21	1.98	0.64
3:LA:56:ALA:CA	3:LA:86:MET:HE1	2.28	0.64
12:PA:202:CYC:HC	12:PA:202:CYC:CMD	1.98	0.64
2:K3:112:GLY:HA3	11:a9:670:LEU:HD21	1.74	0.64
12:B4:202:CYC:CBD	4:M4:53:LEU:HB3	2.26	0.64
12:B1:201:CYC:HC	12:B1:201:CYC:CMD	1.98	0.64
3:L4:69:PRO:HD2	11:aA:81:ASP:HA	1.80	0.64
2:N4:33:ARG:CZ	2:X4:28:ASN:ND2	2.61	0.64
5:Z4:34:LEU:CG	5:Z4:34:LEU:O	2.44	0.64
8:A5:114:GLU:HB2	1:F5:79:ALA:HB1	1.78	0.64
8:E5:98:ALA:HA	1:F5:5:ILE:HG21	1.79	0.64
1:H5:76:ARG:HD2	9:i5:14:LEU:HB2	1.78	0.64
8:U5:48:GLU:CA	6:M6:34:ARG:HH12	2.09	0.64
9:i5:10:CYS:O	9:i5:49:GLY:HA2	1.98	0.64
10:j5:86:GLU:HA	10:j5:89:LYS:HE2	1.80	0.64
10:j5:187:ARG:HE	10:j5:237:ASP:CG	2.04	0.64
10:j5:934:ALA:HB1	1:J7:32:THR:HG21	0.66	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:19:THR:OG1	10:k5:19:THR:O	2.04	0.64
10:k5:182:ASN:HD22	10:k5:182:ASN:N	1.94	0.64
10:k5:974:LEU:HD22	10:k5:974:LEU:O	1.98	0.64
10:k5:1150:TYR:CD2	1:p7:69:GLY:O	2.50	0.64
1:J7:76:ARG:N	8:K7:110:ILE:O	2.31	0.64
8:K7:126:VAL:HG22	12:K7:201:CYC:HMC1	1.80	0.64
8:M7:90:ARG:HA	1:N7:18:TYR:CE2	2.33	0.64
1:X7:118:SER:O	9:w7:61:GLN:CG	2.46	0.64
12:E1:201:CYC:HMD1	12:E1:201:CYC:NC	2.10	0.64
3:B8:82:CYS:CA	12:B8:202:CYC:OC	2.44	0.64
8:o7:29:PHE:HE2	1:p7:5:ILE:CD1	2.10	0.64
8:o7:97:VAL:CG2	1:p7:19:LEU:HD12	2.25	0.64
8:u7:48:GLU:O	8:u7:48:GLU:HG3	1.98	0.64
4:M8:86:ALA:CB	3:Y8:77:ARG:NH1	2.61	0.64
4:M9:76:ALA:CB	3:D9:112:GLY:N	2.52	0.64
3:Y8:89:ILE:CG1	3:Y8:92:TYR:HE2	2.10	0.64
5:Z8:41:GLN:C	12:Z8:301:CYC:HMA2	2.23	0.64
3:D9:68:ARG:NH2	3:X9:68:ARG:CZ	2.56	0.64
11:a9:32:ARG:HH11	11:a9:32:ARG:CG	2.10	0.64
11:a9:95:ILE:O	11:a9:99:ALA:N	2.30	0.64
11:a9:377:VAL:O	11:a9:391:VAL:CG2	2.44	0.64
11:a9:632:ILE:H	11:a9:632:ILE:HD12	1.62	0.64
11:aA:95:ILE:O	11:aA:99:ALA:N	2.30	0.64
11:aA:632:ILE:H	11:aA:632:ILE:HD12	1.62	0.64
5:N1:14:LYS:HE2	5:N1:50:LEU:CD2	2.26	0.64
12:U1:201:CYC:HMD1	12:U1:201:CYC:NC	2.09	0.64
1:A:17:LYS:O	8:a5:94:TYR:OH	2.14	0.63
3:LA:84:ARG:HH21	11:aA:406:LEU:HA	1.62	0.63
2:Q1:14:SER:HB2	5:N1:62:ARG:CZ	2.26	0.63
3:H3:62:GLU:OE1	8:k7:49:ARG:CZ	2.45	0.63
4:M3:151:LEU:O	4:M3:155:ARG:HG3	1.98	0.63
2:O3:33:ARG:CZ	2:Y3:28:ASN:ND2	2.62	0.63
3:B1:127:VAL:CA	12:B1:202:CYC:HMC1	2.23	0.63
4:M4:86:ALA:HB1	3:Y4:77:ARG:HH11	1.61	0.63
4:M4:134:ASN:C	4:M4:135:GLY:O	2.21	0.63
8:G5:12:ASP:OD1	1:H5:91:TYR:OH	2.15	0.63
8:S5:59:PHE:CD2	8:E7:68:PRO:HB3	2.33	0.63
8:U5:27:LYS:O	8:U5:30:VAL:HG23	1.98	0.63
1:b5:9:ILE:HG22	10:k5:17:PHE:HZ	1.63	0.63
10:j5:246:VAL:HG23	10:j5:257:THR:HG22	1.80	0.63
10:j5:261:ILE:O	10:j5:261:ILE:HG13	1.95	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:990:ARG:HD3	1:f7:76:ARG:HD2	1.80	0.63
10:k5:931:VAL:HG22	1:D7:30:TYR:CA	2.26	0.63
8:O7:27:LYS:O	8:O7:30:VAL:HG23	1.98	0.63
8:W7:126:VAL:HG22	12:W7:201:CYC:HMC1	1.80	0.63
8:c7:11:ALA:HB1	1:d7:94:TYR:HE1	1.57	0.63
12:e7:201:CYC:HC	12:e7:201:CYC:CMD	2.10	0.63
12:B8:201:CYC:HC	12:B8:201:CYC:CMD	1.99	0.63
9:z7:5:PHE:CE2	9:z7:37:TRP:CD1	2.86	0.63
3:L8:68:ARG:O	3:L8:69:PRO:C	2.38	0.63
3:L9:111:ASN:ND2	11:a9:531:ASP:H	1.96	0.63
3:Y8:89:ILE:CB	3:Y8:92:TYR:OH	2.46	0.63
5:Z8:38:GLU:CA	12:Z8:301:CYC:CMB	2.70	0.63
3:J9:112:GLY:HA3	11:a9:519:ARG:HA	1.78	0.63
11:a9:312:ASP:OD1	11:a9:316:GLY:CA	2.46	0.63
3:LA:106:GLU:O	3:LA:111:ASN:HB2	1.98	0.63
5:NA:16:PHE:HE2	5:NA:50:LEU:HA	1.62	0.63
3:L2:65:ASP:CG	1:h7:64:ASP:CG	2.59	0.63
3:F3:107:ASP:HB3	11:a9:646:ASN:ND2	2.13	0.63
3:B4:68:ARG:HH22	3:U4:68:ARG:NH1	1.94	0.63
3:B4:119:ALA:O	4:M4:15:PHE:CE2	2.51	0.63
4:M3:85:VAL:HG12	4:M3:85:VAL:O	1.97	0.63
2:U3:46:SER:OG	2:Q9:74:TYR:HD1	1.65	0.63
2:N4:111:ALA:C	5:Z4:34:LEU:CA	2.66	0.63
2:N4:112:GLY:N	5:Z4:34:LEU:H	1.96	0.63
8:G5:15:ALA:HB1	1:H5:90:ARG:NH2	2.14	0.63
8:c5:73:TYR:CE2	6:M6:9:ARG:NH1	2.55	0.63
1:X5:64:ASP:HB3	10:j5:704:THR:CG2	2.29	0.63
1:b5:18:TYR:CD1	10:k5:165:ARG:CG	2.80	0.63
1:b5:18:TYR:CZ	10:k5:165:ARG:CG	2.81	0.63
1:b5:18:TYR:CE1	10:k5:165:ARG:CB	2.72	0.63
10:j5:345:ARG:O	10:j5:345:ARG:HG2	1.98	0.63
10:k5:77:VAL:HG11	10:k5:141:GLU:HG2	1.79	0.63
10:k5:362:LYS:CD	10:k5:363:HIS:NE2	2.60	0.63
10:k5:619:GLU:HB3	10:k5:620:PRO:CD	2.28	0.63
10:k5:1037:ARG:HG2	10:k5:1037:ARG:O	1.97	0.63
10:k5:1143:LEU:HA	1:l7:10:ASN:HD21	1.63	0.63
10:k5:1153:VAL:O	10:k5:1155:ARG:HD2	1.97	0.63
8:O7:22:GLU:HG2	8:O7:25:ARG:HH12	1.58	0.63
8:k7:90:ARG:HA	1:l7:18:TYR:CE2	2.33	0.63
8:s7:27:LYS:O	8:s7:30:VAL:HG23	1.98	0.63
2:X8:107:ASP:CB	4:M8:273:ILE:CG2	2.76	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L8:70:GLY:O	3:L8:71:GLY:C	2.39	0.63
3:L9:14:LEU:CD2	11:a9:358:PRO:CA	2.51	0.63
4:M9:134:ASN:HD21	5:N9:1:MET:N	1.96	0.63
11:a9:33:MET:O	11:a9:34:ILE:HD12	1.97	0.63
11:a9:245:ALA:CA	12:a9:901:CYC:OB	2.47	0.63
11:a9:278:LEU:HD12	11:a9:278:LEU:N	2.07	0.63
11:a9:291:TYR:C	11:a9:293:LEU:H	2.05	0.63
3:HA:120:LEU:HD13	12:HA:202:CYC:C1A	2.29	0.63
2:IA:37:SER:HB3	2:IA:97:LEU:CD1	2.28	0.63
3:LA:120:LEU:HA	11:aA:539:GLY:HA3	1.80	0.63
2:QA:76:ASP:N	2:U1:141:GLN:HA	2.13	0.63
2:A1:33:ARG:HE	2:K1:28:ASN:HD21	1.44	0.63
6:M2:276:PRO:CB	1:j7:63:SER:OG	2.32	0.63
4:M3:116:ASN:ND2	12:X3:201:CYC:OB	2.29	0.63
5:N3:2:SER:O	5:N3:2:SER:OG	2.16	0.63
4:M4:95:ALA:CA	5:Z4:38:GLU:HG3	2.27	0.63
4:M4:200:ILE:HB	5:Z4:52:ARG:NH2	2.13	0.63
4:M4:235:PHE:HZ	3:Y4:113:LEU:HA	1.63	0.63
2:N4:63:PHE:HB2	2:N4:66:LEU:HD12	1.70	0.63
8:K5:20:PRO:HG3	8:U5:151:PHE:C	2.24	0.63
8:O5:35:ARG:NH2	8:O5:144:ASP:CB	2.61	0.63
1:F5:12:TYR:CZ	1:F5:23:ALA:HB2	2.34	0.63
12:U5:201:CYC:CMD	12:U5:201:CYC:HC	2.10	0.63
9:i5:56:LEU:HD12	9:i5:56:LEU:H	1.61	0.63
10:j5:386:ILE:HG23	10:j5:387:VAL:O	1.98	0.63
10:j5:987:ASP:O	1:h7:106:GLU:CD	2.41	0.63
10:k5:386:ILE:HG23	10:k5:387:VAL:O	1.98	0.63
8:I7:27:LYS:O	8:I7:30:VAL:HG23	1.98	0.63
8:g7:16:ARG:HH11	8:g7:16:ARG:HG3	1.64	0.63
8:i7:39:ILE:HD11	8:i7:148:GLU:HB3	1.59	0.63
1:j7:87:TYR:CE2	9:y7:38:PHE:CE1	2.77	0.63
8:U7:29:PHE:HE1	8:U7:98:ALA:C	2.01	0.63
8:a7:102:THR:HB	8:a7:103:PRO:HD2	1.76	0.63
8:m7:29:PHE:HE1	8:m7:98:ALA:C	2.01	0.63
8:u7:23:LEU:HA	1:v7:38:VAL:HG22	1.79	0.63
8:u7:36:ARG:HG2	8:u7:36:ARG:NH2	2.10	0.63
12:u7:201:CYC:HC	12:u7:201:CYC:CMD	2.10	0.63
9:w7:7:VAL:HG11	9:w7:37:TRP:CZ3	2.33	0.63
2:X8:69:PRO:HB3	2:S9:39:GLU:CA	2.27	0.63
3:L8:65:ASP:O	11:a9:82:GLN:CD	2.39	0.63
4:M8:126:THR:CG2	12:M8:302:CYC:O2A	2.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M8:134:ASN:C	4:M8:135:GLY:O	2.21	0.63
2:N8:118:ARG:HH12	5:Z8:32:PRO:HB3	1.62	0.63
3:Q8:85:ASP:HB2	12:Z8:301:CYC:HBC2	1.73	0.63
3:F1:113:LEU:HD13	4:M1:38:PRO:CB	2.28	0.63
3:L9:56:ALA:CA	3:L9:86:MET:HE1	2.28	0.63
3:L9:111:ASN:OD1	11:a9:366:LEU:CD1	2.47	0.63
3:Y8:110:LEU:HD11	3:Y8:166:LYS:HB3	1.81	0.63
5:Z8:24:PRO:CG	5:Z8:35:ASP:O	2.46	0.63
2:A9:114:ARG:NH1	11:a9:407:GLU:CD	2.56	0.63
3:H9:59:LEU:CD2	12:H9:202:CYC:CBC	2.75	0.63
2:I9:4:VAL:HG11	2:I9:30:ARG:HB2	1.79	0.63
11:a9:710:THR:HG21	11:a9:807:GLN:CD	2.21	0.63
5:N1:24:PRO:CG	5:N1:35:ASP:O	2.46	0.63
2:KA:24:LEU:HD22	3:LA:38:LEU:CD2	2.24	0.63
4:MA:85:VAL:HG12	4:MA:85:VAL:O	1.97	0.63
12:S1:201:CYC:HMD1	12:S1:201:CYC:NC	2.10	0.63
3:B3:68:ARG:NH1	3:V3:68:ARG:HH12	1.92	0.63
12:E3:201:CYC:HMD1	12:E3:201:CYC:NC	2.09	0.63
2:U3:141:GLN:HA	2:Q9:76:ASP:N	2.05	0.63
3:H4:84:ARG:HG2	11:aA:131:TYR:CZ	2.26	0.63
4:M4:215:GLU:OE1	12:Z4:301:CYC:HAB1	1.96	0.63
12:X4:201:CYC:HMD1	12:X4:201:CYC:NC	2.09	0.63
1:F5:10:ASN:HB2	9:z5:65:THR:OG1	1.96	0.63
1:d5:155:TYR:HE2	1:T5:113:LYS:NZ	1.91	0.63
8:U5:63:PRO:HB3	6:M6:39:ARG:NH1	2.12	0.63
1:b5:12:TYR:CZ	1:b5:23:ALA:HB2	2.33	0.63
6:M6:277:GLY:CA	1:d7:62:TYR:HB2	2.28	0.63
10:j5:820:HIS:ND1	10:j5:859:ILE:HD13	1.93	0.63
10:j5:1008:PHE:CE1	12:v7:201:CYC:C3B	2.82	0.63
10:k5:391:SER:O	10:k5:392:SER:CB	2.47	0.63
10:k5:1118:THR:HA	12:k5:1204:CYC:HBA1	1.80	0.63
10:k5:1124:TYR:OH	1:n7:119:LEU:HD21	1.99	0.63
3:D1:68:ARG:NH2	3:X1:68:ARG:NH1	2.45	0.63
8:O7:102:THR:HB	8:O7:103:PRO:HD2	1.76	0.63
8:Q7:126:VAL:HG22	12:Q7:201:CYC:CMC	2.27	0.63
8:Q7:126:VAL:HG22	12:Q7:201:CYC:HMC1	1.80	0.63
8:M7:60:GLN:NE2	3:J9:114:LYS:HD3	2.13	0.63
8:i7:47:ARG:CD	1:j7:18:TYR:OH	2.44	0.63
1:j7:12:TYR:CZ	1:j7:23:ALA:HB2	2.34	0.63
8:U7:27:LYS:O	8:U7:30:VAL:HG23	1.98	0.63
1:X7:12:TYR:CZ	1:X7:23:ALA:HB2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a7:107:ILE:HD13	1:b7:13:ASP:OD1	1.98	0.63
2:A8:33:ARG:CZ	2:K8:28:ASN:ND2	2.61	0.63
1:v7:12:TYR:CZ	1:v7:23:ALA:HB2	2.34	0.63
4:M8:58:TYR:HA	4:M8:61:ASN:ND2	2.13	0.63
3:L9:51:ILE:HD13	3:L9:90:LEU:HD11	1.79	0.63
4:M9:85:VAL:HG12	4:M9:85:VAL:O	1.97	0.63
12:J9:202:CYC:HBB1	11:a9:516:GLN:O	1.98	0.63
2:G1:111:ALA:HB1	3:L1:77:ARG:HG2	1.81	0.63
11:a9:798:SER:CB	11:a9:800:THR:HB	2.18	0.63
11:aA:32:ARG:HH11	11:aA:32:ARG:CG	2.10	0.63
2:AA:33:ARG:CZ	2:KA:28:ASN:ND2	2.61	0.63
3:JA:112:GLY:HA3	11:aA:519:ARG:HA	1.79	0.63
3:LA:111:ASN:O	11:aA:532:ALA:CA	2.46	0.63
4:MA:252:LEU:CD1	12:ZA:202:CYC:O1D	2.47	0.63
2:OA:33:ARG:CZ	2:YA:28:ASN:ND2	2.62	0.63
12:QA:201:CYC:O2A	3:TA:67:ILE:CD1	2.46	0.63
2:SA:42:ARG:HD2	2:X4:69:PRO:CA	2.29	0.63
3:TA:32:LYS:NZ	2:X4:57:GLN:CA	2.28	0.63
2:K3:28:ASN:ND2	2:A3:33:ARG:CZ	2.61	0.63
2:C3:140:SER:HB3	3:D8:150:ARG:CG	2.10	0.63
12:C4:201:CYC:HMD1	12:C4:201:CYC:NC	2.09	0.63
5:N3:33:GLY:O	3:T3:84:ARG:CD	2.40	0.63
3:F4:106:GLU:C	4:M4:6:THR:O	2.41	0.63
2:N4:63:PHE:HB2	2:N4:66:LEU:CG	2.27	0.63
8:C5:37:LEU:CD2	1:D5:27:LEU:HD12	2.29	0.63
8:Y5:90:ARG:HA	1:Z5:18:TYR:CE2	2.33	0.63
1:b5:9:ILE:CG2	10:k5:17:PHE:CZ	2.81	0.63
9:i5:6:LYS:HB3	9:i5:55:LYS:HB2	0.64	0.63
10:j5:619:GLU:HB2	10:j5:620:PRO:HD2	1.80	0.63
10:j5:1043:GLU:CD	8:e7:14:GLU:HG2	2.22	0.63
10:k5:386:ILE:HG22	10:k5:395:SER:C	2.18	0.63
10:k5:889:LEU:HD23	12:D7:201:CYC:OB	1.99	0.63
10:k5:971:VAL:HG11	1:n7:76:ARG:HH12	1.61	0.63
2:A6:63:PHE:HB2	2:A6:66:LEU:CG	2.28	0.63
8:S7:6:LYS:HZ1	8:G7:22:GLU:CD	2.06	0.63
8:c7:25:ARG:NH2	8:m7:6:LYS:HZ3	1.89	0.63
8:o7:23:LEU:HD22	1:p7:38:VAL:CG2	2.28	0.63
8:q7:68:PRO:HB2	11:aA:334:LYS:NZ	2.14	0.63
3:U8:114:LYS:NZ	4:M8:13:LYS:HZ2	1.86	0.63
2:X8:28:ASN:ND2	2:N8:33:ARG:CZ	2.61	0.63
2:X8:68:GLN:NE2	3:T9:24:LEU:HD22	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M8:29:PRO:HG3	11:a9:226:PHE:CA	2.28	0.63
4:M8:29:PRO:HG2	11:a9:230:THR:OG1	1.99	0.63
4:M8:235:PHE:HA	12:M8:301:CYC:HAA1	1.79	0.63
12:P8:201:CYC:HMD1	12:P8:201:CYC:NC	2.10	0.63
4:M9:252:LEU:CD1	12:Z9:202:CYC:O1D	2.47	0.63
2:G1:111:ALA:CB	3:L1:77:ARG:CG	2.68	0.63
11:a9:643:LEU:HD13	11:a9:766:ASN:HB3	1.81	0.63
11:aA:312:ASP:OD1	11:aA:316:GLY:CA	2.46	0.63
2:AA:19:LEU:O	3:BA:45:THR:HG21	1.99	0.63
3:HA:59:LEU:CD2	12:HA:202:CYC:CBC	2.76	0.63
2:OA:19:LEU:O	3:PA:45:THR:HG21	1.99	0.63
12:R1:201:CYC:CBB	5:N1:61:LYS:NZ	2.62	0.63
2:A1:19:LEU:O	3:B1:45:THR:HG21	1.99	0.63
3:J2:119:ALA:HB3	6:M2:260:THR:OG1	1.99	0.63
2:A4:33:ARG:CZ	2:K4:28:ASN:ND2	2.61	0.63
2:A4:63:PHE:HB2	2:A4:66:LEU:CG	2.28	0.63
12:B4:202:CYC:CMB	4:M4:57:THR:CG2	2.74	0.63
3:F4:91:ARG:HH21	11:aA:140:GLN:NE2	1.96	0.63
1:f5:5:ILE:CD1	10:j5:46:PHE:CE1	2.80	0.63
2:K6:28:ASN:ND2	2:A6:33:ARG:CZ	2.61	0.63
9:z5:10:CYS:O	9:z5:49:GLY:HA2	1.98	0.63
10:j5:138:PRO:CB	10:j5:201:VAL:CG1	2.52	0.63
10:j5:974:LEU:HD22	10:j5:974:LEU:O	1.98	0.63
10:j5:1016:LEU:CB	10:j5:1044:ASN:ND2	2.62	0.63
10:k5:141:GLU:OE2	10:k5:141:GLU:N	2.23	0.63
10:k5:187:ARG:HE	10:k5:237:ASP:CG	2.05	0.63
8:O7:20:PRO:O	8:O7:23:LEU:HB2	1.98	0.63
8:I7:37:LEU:HD11	1:J7:31:PHE:HE2	1.64	0.63
8:a7:16:ARG:HG3	8:a7:16:ARG:HH11	1.64	0.63
12:B8:202:CYC:CBD	4:M8:53:LEU:HB3	2.27	0.63
8:m7:37:LEU:HD11	1:n7:31:PHE:HE2	1.64	0.63
2:X8:57:GLN:C	3:T9:32:LYS:NZ	2.56	0.63
2:X8:69:PRO:CA	2:S9:42:ARG:HD2	2.29	0.63
4:M8:85:VAL:HG12	4:M8:85:VAL:O	1.97	0.63
4:M8:134:ASN:OD1	5:Z8:1:MET:HE1	1.97	0.63
2:I9:37:SER:HB3	2:I9:97:LEU:CD1	2.28	0.63
11:a9:61:TYR:O	11:a9:63:ASP:N	2.31	0.63
11:a9:245:ALA:HB2	12:a9:901:CYC:OB	1.96	0.63
11:aA:338:VAL:CG2	11:aA:340:PRO:HD3	2.25	0.63
11:aA:813:PRO:CA	3:L1:119:ALA:HB2	2.27	0.63
11:aA:823:ILE:O	11:aA:823:ILE:HD13	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:151:LEU:O	4:MA:155:ARG:HG3	1.97	0.63
2:QA:81:LYS:NZ	3:TA:67:ILE:HD13	2.13	0.63
2:O1:33:ARG:HE	2:Y1:28:ASN:HD21	1.45	0.63
12:I3:201:CYC:HMD1	12:I3:201:CYC:NC	2.09	0.63
12:I2:201:CYC:HMD1	12:I2:201:CYC:NC	2.10	0.63
2:K2:28:ASN:ND2	2:A2:33:ARG:CZ	2.61	0.63
5:N3:24:PRO:CG	5:N3:35:ASP:O	2.46	0.63
4:M4:232:VAL:HG21	3:Y4:113:LEU:HB2	1.81	0.63
3:O4:116:THR:N	5:Z4:70:ILE:CG2	2.62	0.63
8:K5:23:LEU:HD12	8:U5:151:PHE:CD1	2.34	0.63
3:Y4:89:ILE:CB	3:Y4:92:TYR:OH	2.46	0.63
3:Y4:89:ILE:CG1	3:Y4:92:TYR:HE2	2.10	0.63
8:G5:107:ILE:HD13	1:H5:13:ASP:OD1	1.97	0.63
8:I5:37:LEU:CD2	1:J5:27:LEU:HD12	2.29	0.63
2:C1:115:GLU:OE2	4:M1:33:LEU:HD21	1.91	0.63
8:Q5:8:ILE:HG21	1:R5:94:TYR:HB3	1.80	0.63
8:Q5:126:VAL:CG2	12:Q5:201:CYC:HMC1	2.27	0.63
1:R5:12:TYR:CZ	1:R5:23:ALA:HB2	2.34	0.63
8:a5:102:THR:HB	8:a5:103:PRO:HD2	1.76	0.63
9:i5:8:THR:CG2	9:i5:52:LEU:HD12	2.29	0.63
10:j5:388:ARG:CD	10:j5:393:MET:N	2.61	0.63
10:j5:949:ARG:HB2	10:j5:950:PRO:HD2	1.80	0.63
10:k5:614:ARG:HH11	10:k5:614:ARG:HG2	1.64	0.63
10:k5:619:GLU:HB3	10:k5:620:PRO:HD3	1.81	0.63
10:k5:800:THR:HA	9:z7:30:LYS:HB2	1.81	0.63
10:k5:826:THR:HG21	12:B7:201:CYC:HMA2	1.79	0.63
10:k5:973:THR:O	10:k5:977:GLN:NE2	2.32	0.63
10:k5:1085:GLY:HA2	1:l7:87:TYR:CE1	2.34	0.63
3:U8:5:PHE:CD2	3:U8:27:LEU:HD22	2.34	0.63
3:L8:69:PRO:HD2	11:a9:81:ASP:HA	1.81	0.63
3:Q8:89:ILE:CB	3:Q8:92:TYR:CZ	2.81	0.63
3:Q8:92:TYR:CE1	3:Q8:105:LEU:HD13	2.34	0.63
3:Q8:122:THR:HG21	12:Z8:301:CYC:HMC2	1.79	0.63
4:M9:36:TYR:O	12:B9:201:CYC:HMA3	1.98	0.63
4:M9:188:LEU:HD21	12:V9:201:CYC:NB	2.12	0.63
2:O9:19:LEU:O	3:P9:45:THR:HG21	1.99	0.63
2:K9:15:GLN:HG2	11:a9:393:ARG:NH1	2.12	0.63
12:G1:201:CYC:HMD1	12:G1:201:CYC:NC	2.09	0.63
11:a9:640:ALA:CB	11:a9:767:THR:HG23	2.26	0.63
1:A:161:SER:OG	1:R5:14:VAL:HG21	1.78	0.63
4:MA:159:CYS:N	3:VA:108:ARG:HG3	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OA:63:PHE:HB2	2:OA:66:LEU:CG	2.28	0.63
3:TA:32:LYS:NZ	2:X4:57:GLN:C	2.56	0.63
6:M2:153:PHE:HA	6:M2:254:GLN:HE22	1.64	0.63
12:A4:201:CYC:HMD1	12:A4:201:CYC:NC	2.09	0.63
12:Q3:201:CYC:HMD1	12:Q3:201:CYC:NC	2.10	0.63
2:N4:19:LEU:O	3:O4:45:THR:HG21	1.99	0.63
5:Z4:1:MET:C	5:Z4:3:VAL:N	2.50	0.63
5:Z4:21:ALA:CB	5:Z4:68:LEU:HD11	2.23	0.63
8:A5:90:ARG:HD3	1:B5:18:TYR:CE1	2.34	0.63
1:D5:14:VAL:O	1:D5:14:VAL:HG23	1.98	0.63
8:G5:71:ASN:CG	12:G5:201:CYC:HMD3	2.24	0.63
1:H5:107:ARG:NH2	9:i5:21:ARG:HD3	2.13	0.63
8:U5:83:ARG:HG3	6:M6:31:ASP:CB	2.28	0.63
9:i5:8:THR:HG22	9:i5:52:LEU:HD12	1.80	0.63
9:i5:23:LEU:N	9:i5:25:ASN:H	1.97	0.63
10:j5:221:LYS:HB3	10:j5:221:LYS:NZ	2.14	0.63
10:j5:823:TYR:O	1:H7:107:ARG:HD2	1.99	0.63
10:j5:931:VAL:CG2	1:J7:30:TYR:N	2.60	0.63
8:g7:27:LYS:O	8:g7:30:VAL:HG23	1.98	0.63
1:b7:75:THR:HB	8:c7:111:GLY:C	2.24	0.63
8:o7:29:PHE:CD2	1:p7:31:PHE:CE1	2.58	0.63
8:q7:76:LYS:HZ2	11:aA:605:PRO:CB	1.97	0.63
9:z7:21:ARG:O	9:z7:22:GLU:C	2.40	0.63
9:y7:3:ARG:NH1	9:y7:67:VAL:HG11	2.14	0.63
2:X8:57:GLN:HE22	3:T9:32:LYS:HG2	1.63	0.63
3:L8:130:ALA:CB	12:a9:901:CYC:CBC	2.77	0.63
4:M8:230:GLN:C	12:M8:301:CYC:HBB3	2.13	0.63
4:M8:267:LEU:C	4:M8:269:SER:O	2.42	0.63
3:O8:5:PHE:CD2	3:O8:27:LEU:HD22	2.34	0.63
3:O8:107:ASP:HB3	5:Z8:66:ARG:CA	2.28	0.63
12:L9:202:CYC:HMA1	11:a9:534:SER:HB3	1.80	0.63
4:M9:118:TYR:CD2	12:Z9:202:CYC:O2A	2.51	0.63
5:N9:6:GLY:HA3	3:R9:108:ARG:C	2.24	0.63
3:Y8:5:PHE:CD2	3:Y8:27:LEU:HD22	2.34	0.63
11:aA:95:ILE:HD13	11:aA:237:PHE:CZ	2.33	0.63
11:aA:371:VAL:CG1	11:aA:507:PHE:CD2	2.80	0.63
11:aA:716:ILE:HD12	11:aA:738:LEU:HD21	1.81	0.63
5:NA:1:MET:CB	5:NA:3:VAL:CG2	2.76	0.63
12:QA:201:CYC:O2A	3:TA:67:ILE:HD12	1.98	0.63
2:O1:19:LEU:O	3:P1:45:THR:HG21	1.99	0.63
2:G3:111:ALA:HB1	3:L3:77:ARG:HG2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H3:84:ARG:CD	11:a9:776:TYR:CZ	2.82	0.63
2:A3:19:LEU:O	3:B3:45:THR:HG21	1.99	0.63
5:N3:16:PHE:HE2	5:N3:50:LEU:HA	1.62	0.63
5:N3:36:THR:HG1	12:T3:301:CYC:HB	1.35	0.63
3:B1:91:ARG:NH1	11:aA:677:GLN:HE22	1.97	0.63
3:F4:110:LEU:N	4:M4:6:THR:HG22	2.07	0.63
4:M4:151:LEU:O	4:M4:155:ARG:HG3	1.98	0.63
8:G5:125:ALA:HB3	12:G5:201:CYC:HMC2	1.81	0.63
8:c5:114:GLU:OE1	10:j5:312:TYR:C	2.41	0.63
1:d5:155:TYR:OH	1:T5:113:LYS:NZ	2.24	0.63
1:f5:12:TYR:CZ	1:f5:23:ALA:HB2	2.33	0.63
1:X5:12:TYR:CZ	1:X5:23:ALA:HB2	2.34	0.63
6:M6:153:PHE:HA	6:M6:254:GLN:HE22	1.64	0.63
7:N6:49:LEU:HD12	3:B6:84:ARG:NE	2.14	0.63
10:j5:143:ILE:HD12	10:j5:146:ALA:HB3	1.79	0.63
10:j5:391:SER:O	10:j5:392:SER:CB	2.47	0.63
10:j5:984:ILE:C	10:j5:984:ILE:HD12	2.23	0.63
10:k5:298:ARG:NH1	10:k5:298:ARG:HG2	2.14	0.63
10:k5:820:HIS:HE1	10:k5:859:ILE:CD1	1.95	0.63
10:k5:1043:GLU:OE1	8:Y7:14:GLU:HG2	1.99	0.63
10:k5:1125:ARG:NH2	1:n7:114:GLU:HB2	2.12	0.63
8:O7:37:LEU:HD11	1:P7:31:PHE:HE2	1.64	0.63
1:F7:12:TYR:CZ	1:F7:23:ALA:HB2	2.34	0.63
8:G7:90:ARG:HA	1:H7:18:TYR:CE2	2.32	0.63
8:K7:25:ARG:CD	8:U7:25:ARG:HH22	2.11	0.63
8:K7:25:ARG:CB	8:U7:25:ARG:HH21	2.07	0.63
1:L7:12:TYR:CZ	1:L7:23:ALA:HB2	2.34	0.63
8:i7:37:LEU:CD1	1:j7:31:PHE:CD2	2.78	0.63
3:D8:5:PHE:CD2	3:D8:27:LEU:HD22	2.34	0.63
3:L8:71:GLY:CA	11:a9:82:GLN:CD	2.71	0.63
2:N8:63:PHE:HB2	2:N8:66:LEU:CG	2.27	0.63
3:Q8:5:PHE:CD2	3:Q8:27:LEU:HD22	2.34	0.63
4:M9:160:THR:H	3:V9:108:ARG:HG2	1.59	0.63
3:P9:5:PHE:CD2	3:P9:27:LEU:HD22	2.34	0.63
3:H9:66:LEU:HD22	12:H9:202:CYC:C1C	2.19	0.63
3:V9:5:PHE:CD2	3:V9:27:LEU:HD22	2.34	0.63
11:a9:275:THR:CA	11:a9:278:LEU:HD13	2.03	0.63
11:a9:537:ASP:HB3	11:a9:543:GLN:HB2	1.79	0.63
3:L1:5:PHE:CD2	3:L1:27:LEU:HD22	2.34	0.63
4:M1:151:LEU:O	4:M1:155:ARG:HG3	1.98	0.63
4:M1:188:LEU:HD22	12:Z1:202:CYC:HB	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:X1:5:PHE:CD2	3:X1:27:LEU:HD22	2.34	0.63
2:A2:19:LEU:O	3:B2:45:THR:HG21	1.99	0.63
3:D2:5:PHE:CD2	3:D2:27:LEU:HD22	2.34	0.63
1:A:62:TYR:HD1	10:k5:155:LYS:HZ1	1.46	0.62
2:AA:63:PHE:HB2	2:AA:66:LEU:CG	2.27	0.62
12:BA:201:CYC:HMA3	4:MA:36:TYR:O	1.98	0.62
5:NA:6:GLY:HA3	3:RA:108:ARG:C	2.24	0.62
2:QA:116:VAL:CG1	3:TA:79:MET:HG2	2.29	0.62
2:A3:63:PHE:CB	2:A3:66:LEU:HG	2.29	0.62
12:B3:202:CYC:HBA1	11:a9:684:ASN:ND2	2.13	0.62
3:D4:5:PHE:CD2	3:D4:27:LEU:HD22	2.34	0.62
2:U3:140:SER:O	2:Q9:76:ASP:HB2	1.99	0.62
4:M4:197:ASP:CB	5:Z4:52:ARG:HG2	2.18	0.62
1:L5:12:TYR:CZ	1:L5:23:ALA:HB2	2.34	0.62
1:L5:119:LEU:CD2	10:j5:546:PHE:CD2	2.76	0.62
8:M5:14:GLU:HG2	10:k5:538:PHE:CZ	2.34	0.62
8:C5:2:SER:C	8:C5:100:ASP:HB3	2.24	0.62
8:E5:161:GLN:NE2	1:P5:49:THR:CG2	2.62	0.62
6:M6:104:ARG:NH1	2:G6:16:GLY:HA2	2.13	0.62
10:j5:619:GLU:HB3	10:j5:620:PRO:HD3	1.81	0.62
10:k5:246:VAL:HG23	10:k5:257:THR:HG22	1.80	0.62
10:k5:362:LYS:CE	10:k5:363:HIS:HD2	2.08	0.62
10:k5:539:LYS:O	10:k5:539:LYS:HG3	1.97	0.62
3:B6:5:PHE:CD2	3:B6:27:LEU:HD22	2.34	0.62
8:I7:35:ARG:NH2	8:I7:144:ASP:CB	2.61	0.62
8:U7:37:LEU:HD11	1:V7:31:PHE:HE2	1.64	0.62
8:o7:23:LEU:HA	1:p7:38:VAL:HG22	1.79	0.62
12:q7:201:CYC:HC	12:q7:201:CYC:CMD	2.10	0.62
9:w7:5:PHE:CE2	9:w7:37:TRP:CD1	2.86	0.62
3:J8:5:PHE:CD2	3:J8:27:LEU:HD22	2.34	0.62
3:L8:5:PHE:CD2	3:L8:27:LEU:HD22	2.34	0.62
3:S8:5:PHE:CD2	3:S8:27:LEU:HD22	2.34	0.62
3:F1:119:ALA:HB2	4:M1:41:ASN:HD21	1.63	0.62
4:M9:77:LEU:CD2	3:Z9:115:GLU:OE2	2.46	0.62
4:M9:188:LEU:HD11	3:V9:88:ILE:HD11	1.81	0.62
3:J9:119:ALA:CA	11:a9:365:LYS:CE	2.69	0.62
11:a9:371:VAL:CG1	11:a9:507:PHE:CB	2.77	0.62
11:aA:809:ARG:HH22	3:L1:115:GLU:HB2	1.64	0.62
5:N1:33:GLY:O	3:T1:84:ARG:CD	2.40	0.62
3:B2:5:PHE:CD2	3:B2:27:LEU:HD22	2.34	0.62
1:Z:27:LEU:HD13	8:e5:37:LEU:HD21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:114:ARG:NH1	11:aA:407:GLU:CD	2.56	0.62
3:DA:68:ARG:HH12	3:XA:65:ASP:HB3	1.63	0.62
12:JA:202:CYC:HBB1	11:aA:516:GLN:O	1.99	0.62
4:MA:160:THR:HG22	4:MA:257:GLN:HB3	1.73	0.62
3:XA:5:PHE:CD2	3:XA:27:LEU:HD22	2.34	0.62
2:O1:2:LYS:HE2	2:Y1:22:THR:HG21	1.81	0.62
3:R1:5:PHE:CD2	3:R1:27:LEU:HD22	2.34	0.62
3:H2:5:PHE:CD2	3:H2:27:LEU:HD22	2.34	0.62
3:H2:121:GLY:HA3	6:M2:251:LYS:HZ1	1.63	0.62
3:L2:5:PHE:CD2	3:L2:27:LEU:HD22	2.34	0.62
2:C3:115:GLU:OE2	4:M3:33:LEU:HD21	1.91	0.62
2:A4:63:PHE:CB	2:A4:66:LEU:HG	2.29	0.62
2:O3:19:LEU:O	3:P3:45:THR:HG21	1.99	0.62
3:H4:14:LEU:HD11	11:aA:86:ASP:H	1.64	0.62
3:Q4:91:ARG:HH11	3:Q4:95:TYR:HD2	1.45	0.62
12:N5:201:CYC:HBB2	10:k5:482:GLN:NE2	2.13	0.62
8:A5:125:ALA:HB3	12:A5:201:CYC:HMC2	1.81	0.62
8:G5:25:ARG:NH2	8:S5:25:ARG:HE	1.96	0.62
1:d5:67:ARG:NH2	10:j5:708:GLY:HA3	2.13	0.62
8:e5:27:LYS:O	8:e5:30:VAL:HG23	1.98	0.62
8:e5:35:ARG:NH2	8:e5:144:ASP:CB	2.61	0.62
12:J6:202:CYC:O2A	6:M6:185:PHE:CD2	2.41	0.62
10:j5:344:ARG:HH11	10:j5:344:ARG:HG2	1.64	0.62
10:j5:614:ARG:HH11	10:j5:614:ARG:HG2	1.64	0.62
10:k5:275:THR:CG2	10:k5:286:VAL:HG12	2.29	0.62
3:F6:82:CYS:HB2	12:F6:201:CYC:C2D	2.29	0.62
8:C7:102:THR:HB	8:C7:103:PRO:HD2	1.76	0.62
8:g7:90:ARG:CZ	1:h7:16:GLY:C	2.73	0.62
8:i7:42:THR:CB	8:i7:141:LEU:CD2	2.76	0.62
8:a7:2:SER:C	8:a7:100:ASP:HB3	2.24	0.62
2:A8:19:LEU:O	3:B8:45:THR:HG21	1.99	0.62
12:B8:202:CYC:HMB3	4:M8:57:THR:HG23	1.81	0.62
8:o7:94:TYR:HH	1:p7:17:LYS:C	1.95	0.62
8:s7:37:LEU:HD11	1:t7:31:PHE:HE2	1.64	0.62
1:v7:139:GLY:HA3	11:aA:342:ARG:HE	1.64	0.62
3:F1:5:PHE:CD2	3:F1:27:LEU:HD22	2.34	0.62
2:A9:33:ARG:CZ	2:K9:28:ASN:ND2	2.61	0.62
11:aA:50:LEU:O	11:aA:53:VAL:N	2.33	0.62
4:M1:245:ASP:CB	3:X1:108:ARG:O	2.41	0.62
3:HA:5:PHE:CD2	3:HA:27:LEU:HD22	2.34	0.62
2:IA:4:VAL:HB	2:IA:30:ARG:HG3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JA:20:SER:O	3:JA:22:GLN:CA	2.46	0.62
12:JA:202:CYC:CGA	11:aA:511:LYS:HD2	2.26	0.62
3:LA:120:LEU:HD23	11:aA:539:GLY:H	1.65	0.62
4:MA:134:ASN:CB	12:RA:201:CYC:HAA1	2.21	0.62
4:MA:188:LEU:HD21	12:VA:201:CYC:NB	2.12	0.62
2:QA:116:VAL:HG22	3:TA:79:MET:C	2.24	0.62
3:RA:5:PHE:CD2	3:RA:27:LEU:HD22	2.34	0.62
2:O1:33:ARG:CZ	2:Y1:28:ASN:ND2	2.62	0.62
3:J3:84:ARG:NH2	2:K3:115:GLU:OE2	2.26	0.62
2:A4:19:LEU:O	3:B4:45:THR:HG21	1.99	0.62
3:B4:120:LEU:HD11	4:M4:53:LEU:H	1.61	0.62
3:L3:5:PHE:CD2	3:L3:27:LEU:HD22	2.34	0.62
5:N3:61:LYS:NZ	12:R3:201:CYC:CBB	2.62	0.62
3:P3:5:PHE:CD2	3:P3:27:LEU:HD22	2.34	0.62
3:V3:5:PHE:CD2	3:V3:27:LEU:HD22	2.34	0.62
12:G4:201:CYC:HMD1	12:G4:201:CYC:NC	2.09	0.62
3:H4:5:PHE:CD2	3:H4:27:LEU:HD22	2.34	0.62
3:H4:84:ARG:CD	11:aA:131:TYR:CZ	2.82	0.62
4:M4:232:VAL:CG2	3:Y4:113:LEU:HB2	2.30	0.62
3:O4:120:LEU:HD23	5:Z4:14:LYS:HZ2	1.64	0.62
3:Q4:5:PHE:CD2	3:Q4:27:LEU:HD22	2.34	0.62
1:L5:106:GLU:HG3	9:i5:58:THR:HG23	1.80	0.62
8:O5:2:SER:C	8:O5:100:ASP:HB3	2.25	0.62
8:O5:76:LYS:O	8:O5:77:MET:C	2.43	0.62
3:Y4:93:VAL:HG22	3:Y4:105:LEU:HD11	1.81	0.62
8:E5:128:GLU:OE1	8:E5:128:GLU:HA	1.99	0.62
1:f5:9:ILE:HG21	10:j5:17:PHE:CZ	2.33	0.62
1:P5:114:GLU:CB	10:k5:496:GLU:CG	2.62	0.62
2:K6:22:THR:HG21	2:A6:2:LYS:HE2	1.81	0.62
9:z5:8:THR:CG2	9:z5:52:LEU:HD12	2.29	0.62
10:j5:309:LEU:HD13	10:j5:342:LEU:HD13	1.81	0.62
10:j5:539:LYS:O	10:j5:539:LYS:HG3	1.98	0.62
10:j5:1071:PRO:O	10:j5:1071:PRO:HD2	1.99	0.62
10:k5:345:ARG:HG2	10:k5:345:ARG:O	1.98	0.62
10:k5:1002:ARG:HG2	10:k5:1002:ARG:O	1.98	0.62
10:k5:1155:ARG:HB3	10:k5:1155:ARG:NH2	2.07	0.62
1:R7:12:TYR:CZ	1:R7:23:ALA:HB2	2.34	0.62
8:i7:96:ILE:HA	8:i7:152:TYR:CE1	2.30	0.62
8:a7:19:SER:CB	8:a7:20:PRO:CD	2.76	0.62
8:c7:39:ILE:HG23	8:c7:149:ALA:HB2	1.81	0.62
8:u7:29:PHE:HE2	1:v7:5:ILE:CD1	2.10	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W8:5:PHE:CD2	3:W8:27:LEU:HD22	2.34	0.62
3:H8:1:MET:H2	11:a9:96:THR:CG2	2.12	0.62
3:H8:5:PHE:CD2	3:H8:27:LEU:HD22	2.34	0.62
4:M8:144:ARG:HD3	4:M8:204:ILE:HG21	1.81	0.62
2:N8:63:PHE:CB	2:N8:66:LEU:HG	2.29	0.62
3:L9:120:LEU:HA	11:a9:539:GLY:HA3	1.79	0.62
4:M9:73:ASP:HA	3:D9:111:ASN:HD21	1.65	0.62
4:M9:263:PRO:O	3:V9:119:ALA:HB1	1.99	0.62
2:O9:33:ARG:CZ	2:Y9:28:ASN:ND2	2.62	0.62
5:Z8:69:GLU:O	5:Z8:70:ILE:HG12	1.99	0.62
3:J9:5:PHE:CD2	3:J9:27:LEU:HD22	2.34	0.62
11:a9:327:SER:O	11:a9:328:GLN:C	2.40	0.62
11:aA:298:ILE:C	11:aA:300:GLY:N	2.48	0.62
4:M1:80:PRO:CA	3:X1:111:ASN:HD21	2.11	0.62
4:M1:85:VAL:HG12	4:M1:85:VAL:O	1.97	0.62
5:N1:69:GLU:O	5:N1:70:ILE:HG12	1.99	0.62
2:A2:63:PHE:CB	2:A2:66:LEU:HG	2.30	0.62
3:F2:5:PHE:CD2	3:F2:27:LEU:HD22	2.34	0.62
4:MA:134:ASN:HD21	5:NA:1:MET:N	1.96	0.62
2:QA:149:GLU:OE2	2:UA:21:ASN:OD1	2.17	0.62
3:H3:5:PHE:CD2	3:H3:27:LEU:HD22	2.34	0.62
3:J3:121:GLY:CA	11:a9:804:ARG:NH2	2.62	0.62
7:N2:49:LEU:HD12	3:B2:84:ARG:NE	2.14	0.62
3:B3:91:ARG:NH1	11:a9:677:GLN:HE22	1.97	0.62
3:F3:5:PHE:CD2	3:F3:27:LEU:HD22	2.34	0.62
3:B4:108:ARG:HA	4:M4:61:ASN:O	1.99	0.62
2:O3:2:LYS:HE2	2:Y3:22:THR:HG21	1.81	0.62
3:J4:5:PHE:CD2	3:J4:27:LEU:HD22	2.34	0.62
4:M4:82:ILE:HD12	12:M4:301:CYC:O2D	1.90	0.62
8:A5:16:ARG:O	1:B5:94:TYR:OH	2.08	0.62
12:G5:201:CYC:HMD1	12:G5:201:CYC:NC	2.02	0.62
8:c5:14:GLU:OE2	10:j5:393:MET:HA	1.98	0.62
1:d5:28:LYS:CE	1:n7:143:PRO:HB3	2.11	0.62
1:d5:127:VAL:CG1	10:j5:698:GLY:N	2.42	0.62
8:W5:17:TYR:HB2	1:X5:45:SER:CB	2.30	0.62
1:b5:114:GLU:HB3	10:k5:491:THR:CB	2.29	0.62
3:J6:119:ALA:HB3	6:M6:260:THR:OG1	1.99	0.62
10:j5:77:VAL:HG22	10:j5:141:GLU:CB	2.28	0.62
10:j5:141:GLU:CD	10:j5:141:GLU:H	2.07	0.62
10:j5:426:LEU:HD12	10:j5:426:LEU:O	1.98	0.62
10:k5:77:VAL:HG22	10:k5:141:GLU:CB	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O7:2:SER:C	8:O7:100:ASP:HB3	2.25	0.62
8:O7:35:ARG:NE	8:O7:145:ASP:OD1	2.33	0.62
8:C7:27:LYS:O	8:C7:30:VAL:HG23	1.99	0.62
8:C7:37:LEU:HD11	1:D7:31:PHE:HE2	1.64	0.62
8:g7:52:LYS:CD	11:aA:321:ALA:HB2	2.24	0.62
8:U7:21:GLY:HA2	8:U7:24:ASP:CG	2.25	0.62
3:B8:5:PHE:CD2	3:B8:27:LEU:HD22	2.34	0.62
3:D8:116:THR:OG1	4:M8:38:PRO:HB2	1.99	0.62
8:u7:27:LYS:HE3	1:v7:35:ALA:CA	2.29	0.62
9:z7:15:LYS:HE3	9:z7:16:ARG:HD3	1.79	0.62
2:X8:22:THR:HG21	2:N8:2:LYS:HE2	1.81	0.62
3:F8:1:MET:HB2	4:M8:10:ARG:HA	1.81	0.62
3:Q8:81:ALA:HB2	5:Z8:36:THR:HG21	1.81	0.62
4:M9:251:ASN:H	4:M9:251:ASN:ND2	1.95	0.62
5:Z8:37:HIS:CG	12:Z8:301:CYC:C4B	2.81	0.62
2:A9:63:PHE:CB	2:A9:66:LEU:HG	2.29	0.62
3:D9:5:PHE:CD2	3:D9:27:LEU:HD22	2.34	0.62
4:M1:263:PRO:HB2	3:Z1:119:ALA:HB3	1.78	0.62
1:Z:31:PHE:HE2	8:e5:37:LEU:HD11	1.64	0.62
3:BA:5:PHE:CD2	3:BA:27:LEU:HD22	2.34	0.62
4:MA:37:GLU:CD	11:aA:381:PRO:HG3	2.24	0.62
4:MA:51:ARG:NH2	11:aA:430:ARG:NE	2.48	0.62
3:ZA:5:PHE:CD2	3:ZA:27:LEU:HD22	2.34	0.62
6:M2:28:ASN:HB3	8:O5:80:LEU:HD21	0.66	0.62
7:N2:29:LEU:HG	2:A2:115:GLU:OE2	2.00	0.62
3:B3:5:PHE:CD2	3:B3:27:LEU:HD22	2.34	0.62
3:B4:5:PHE:CD2	3:B4:27:LEU:HD22	2.34	0.62
5:N3:69:GLU:O	5:N3:70:ILE:HG12	1.99	0.62
2:N4:33:ARG:HE	2:X4:28:ASN:HD21	1.44	0.62
3:O4:112:GLY:C	5:Z4:70:ILE:HB	2.24	0.62
8:E5:161:GLN:CD	1:P5:49:THR:HG22	2.24	0.62
3:J6:5:PHE:CD2	3:J6:27:LEU:HD22	2.35	0.62
10:j5:275:THR:CG2	10:j5:286:VAL:HG12	2.29	0.62
10:j5:973:THR:O	10:j5:977:GLN:NE2	2.32	0.62
10:k5:86:GLU:HA	10:k5:89:LYS:HE2	1.80	0.62
10:k5:1046:ARG:HD2	8:k7:13:ALA:HB2	1.79	0.62
3:H6:5:PHE:CD2	3:H6:27:LEU:HD22	2.34	0.62
8:g7:25:ARG:NE	8:u7:25:ARG:NE	2.45	0.62
8:U7:2:SER:C	8:U7:100:ASP:HB3	2.25	0.62
8:c7:12:ASP:OD2	1:d7:91:TYR:HE1	1.77	0.62
8:c7:42:THR:CB	8:c7:141:LEU:CD2	2.75	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:B8:202:CYC:HMA1	4:M8:58:TYR:CB	2.19	0.62
3:F8:5:PHE:CD2	3:F8:27:LEU:HD22	2.34	0.62
3:O8:111:ASN:OD1	5:Z8:68:LEU:C	2.43	0.62
3:Q8:89:ILE:CG1	3:Q8:92:TYR:OH	2.48	0.62
3:L9:106:GLU:O	3:L9:111:ASN:HB2	1.98	0.62
4:M9:159:CYS:N	3:V9:108:ARG:HG3	2.13	0.62
4:M9:274:VAL:HG12	3:V9:77:ARG:CZ	2.29	0.62
5:N9:24:PRO:CG	5:N9:35:ASP:O	2.46	0.62
3:F9:68:ARG:CZ	3:Z9:68:ARG:HH12	1.95	0.62
11:a9:523:GLN:HE21	11:a9:548:LEU:HD13	1.60	0.62
11:aA:735:VAL:C	12:aA:902:CYC:O2A	2.14	0.62
3:T1:5:PHE:CD2	3:T1:27:LEU:HD22	2.34	0.62
12:A2:201:CYC:HMD1	12:A2:201:CYC:NC	2.10	0.62
12:JA:201:CYC:HC	12:JA:201:CYC:CMD	1.98	0.62
4:MA:134:ASN:CG	5:NA:1:MET:H1	2.08	0.62
2:OA:63:PHE:CB	2:OA:66:LEU:HG	2.30	0.62
3:TA:5:PHE:CD2	3:TA:27:LEU:HD22	2.35	0.62
2:A1:63:PHE:CB	2:A1:66:LEU:HG	2.29	0.62
3:H3:111:ASN:O	11:a9:782:ALA:HB3	1.99	0.62
3:B3:85:ASP:OD2	12:B3:202:CYC:NA	2.32	0.62
3:F3:113:LEU:HD13	4:M3:38:PRO:CB	2.29	0.62
3:U4:5:PHE:CD2	3:U4:27:LEU:HD22	2.34	0.62
3:W4:5:PHE:CD2	3:W4:27:LEU:HD22	2.34	0.62
3:H4:111:ASN:CG	11:aA:291:TYR:HH	1.75	0.62
12:I4:201:CYC:HMD1	12:I4:201:CYC:NC	2.10	0.62
3:L4:5:PHE:CD2	3:L4:27:LEU:HD22	2.34	0.62
4:M4:29:PRO:HG2	11:aA:226:PHE:HA	1.80	0.62
4:M4:136:SER:CB	5:Z4:2:SER:HB2	2.28	0.62
12:R4:201:CYC:HMD1	12:R4:201:CYC:NC	2.10	0.62
3:Y4:5:PHE:CD2	3:Y4:27:LEU:HD22	2.34	0.62
8:a5:2:SER:C	8:a5:100:ASP:HB3	2.25	0.62
10:j5:902:ASN:HD22	10:j5:902:ASN:C	2.02	0.62
1:D7:76:ARG:HD3	8:E7:110:ILE:CD1	2.29	0.62
8:M7:60:GLN:NE2	3:J9:114:LYS:CD	2.62	0.62
8:g7:25:ARG:HH21	8:u7:25:ARG:CD	2.12	0.62
1:V7:53:LYS:HZ1	8:W7:120:GLN:CD	2.08	0.62
8:a7:33:GLY:C	1:b7:31:PHE:HE2	2.08	0.62
8:a7:35:ARG:NH2	8:a7:144:ASP:CB	2.61	0.62
8:a7:90:ARG:CZ	1:b7:16:GLY:C	2.73	0.62
1:d7:12:TYR:CZ	1:d7:23:ALA:HB2	2.34	0.62
1:p7:12:TYR:CZ	1:p7:23:ALA:HB2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:x7:3:ARG:NH1	9:x7:67:VAL:HG11	2.14	0.62
2:T8:111:ALA:CB	4:M8:87:ILE:HG21	2.28	0.62
3:L8:86:MET:HG3	12:a9:901:CYC:CBC	2.25	0.62
5:N9:61:LYS:HB3	3:T9:108:ARG:HA	1.81	0.62
5:N9:69:GLU:O	5:N9:70:ILE:HG12	1.99	0.62
3:Y8:89:ILE:CA	3:Y8:92:TYR:CZ	2.76	0.62
3:H9:108:ARG:O	3:H9:108:ARG:HD2	2.00	0.62
11:a9:30:MET:HG2	11:a9:34:ILE:O	2.00	0.62
4:M1:190:ARG:HH11	4:M1:202:SER:HB3	1.63	0.62
5:N1:39:PRO:HB3	3:T1:113:LEU:CA	2.18	0.62
1:A:107:ARG:HH12	8:a5:9:VAL:HG22	1.63	0.62
3:DA:111:ASN:HD21	4:MA:73:ASP:HA	1.65	0.62
3:JA:114:LYS:HG2	8:S7:60:GLN:HE21	1.62	0.62
3:LA:5:PHE:CD2	3:LA:27:LEU:HD22	2.34	0.62
4:MA:132:LEU:HD13	4:MA:142:PHE:HB2	1.82	0.62
4:MA:188:LEU:HD11	3:VA:88:ILE:HD11	1.81	0.62
2:QA:81:LYS:HE2	3:TA:67:ILE:CD1	2.29	0.62
2:QA:149:GLU:OE2	2:UA:21:ASN:CG	2.43	0.62
5:N3:1:MET:HE3	5:N3:1:MET:CA	2.17	0.62
4:M4:94:TRP:CE3	3:Q4:88:ILE:HG12	2.35	0.62
3:O4:5:PHE:CD2	3:O4:27:LEU:HD22	2.34	0.62
1:N5:113:LYS:CE	1:Z5:155:TYR:OH	2.47	0.62
8:A5:15:ALA:HB1	1:B5:90:ARG:NH2	2.14	0.62
8:W5:126:VAL:HG22	12:W5:201:CYC:HMC1	1.80	0.62
8:a5:27:LYS:O	8:a5:30:VAL:HG23	1.98	0.62
7:N6:29:LEU:HG	2:A6:115:GLU:OE2	2.00	0.62
10:j5:1016:LEU:CG	10:j5:1017:ARG:H	2.12	0.62
1:P7:53:LYS:NZ	8:Q7:120:GLN:CD	2.58	0.62
1:D7:53:LYS:HZ1	8:E7:120:GLN:CD	2.08	0.62
1:H7:68:PRO:CB	1:J7:14:VAL:C	2.67	0.62
8:g7:2:SER:C	8:g7:100:ASP:HB3	2.25	0.62
8:a7:27:LYS:O	8:a7:30:VAL:HG23	1.98	0.62
8:o7:23:LEU:CD2	1:p7:38:VAL:CG2	2.77	0.62
8:u7:90:ARG:HB2	1:v7:18:TYR:CE1	2.34	0.62
3:U8:115:GLU:CD	4:M8:74:LEU:HD12	2.24	0.62
4:M8:200:ILE:HB	5:Z8:52:ARG:HH21	1.65	0.62
3:Q8:120:LEU:HD12	3:Q8:121:GLY:C	2.24	0.62
3:F1:84:ARG:CZ	4:M1:35:THR:CB	2.78	0.62
5:N9:39:PRO:HB3	3:P9:116:THR:OG1	2.00	0.62
3:H9:5:PHE:CD2	3:H9:27:LEU:HD22	2.34	0.62
11:a9:716:ILE:HD12	11:a9:738:LEU:HD21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z1:5:PHE:CD2	3:Z1:27:LEU:HD22	2.34	0.62
3:LA:111:ASN:ND2	11:aA:531:ASP:H	1.98	0.62
3:P1:5:PHE:CD2	3:P1:27:LEU:HD22	2.34	0.62
2:A1:33:ARG:CZ	2:K1:28:ASN:ND2	2.61	0.62
2:K2:28:ASN:HD21	2:A2:33:ARG:HE	1.44	0.62
3:X3:5:PHE:CD2	3:X3:27:LEU:HD22	2.34	0.62
3:S4:5:PHE:CD2	3:S4:27:LEU:HD22	2.34	0.62
3:O4:92:TYR:OH	3:O4:108:ARG:HD2	1.99	0.62
12:O4:201:CYC:HBB3	5:Z4:57:MET:HB3	1.82	0.62
8:O5:27:LYS:O	8:O5:30:VAL:HG23	1.98	0.62
8:A5:119:LEU:HD11	12:A5:201:CYC:CAA	2.30	0.62
8:E5:23:LEU:CD1	1:F5:42:ALA:HB2	2.29	0.62
8:E5:78:THR:O	8:E5:81:CYS:HB3	2.00	0.62
8:G5:119:LEU:HD11	12:G5:201:CYC:CAA	2.30	0.62
1:H5:10:ASN:ND2	10:j5:557:VAL:O	2.33	0.62
1:H5:87:TYR:CE1	9:i5:20:GLY:HA2	2.34	0.62
8:e5:2:SER:C	8:e5:100:ASP:HB3	2.25	0.62
8:U5:2:SER:C	8:U5:100:ASP:HB3	2.24	0.62
12:X5:201:CYC:HBB2	10:j5:520:ARG:CZ	2.30	0.62
10:j5:742:GLY:CA	12:J7:201:CYC:O1D	2.46	0.62
10:j5:1074:GLN:CD	1:r7:119:LEU:HD21	2.25	0.62
10:k5:1064:LYS:HA	10:k5:1069:ARG:N	2.15	0.62
1:D7:53:LYS:NZ	8:E7:120:GLN:CD	2.58	0.62
1:J7:53:LYS:NZ	8:K7:120:GLN:CD	2.58	0.62
8:a7:107:ILE:HG21	1:b7:13:ASP:OD1	2.00	0.62
2:A8:2:LYS:HE2	2:K8:22:THR:HG21	1.81	0.62
8:o7:90:ARG:HB2	1:p7:18:TYR:CE1	2.34	0.62
8:s7:2:SER:C	8:s7:100:ASP:HB3	2.25	0.62
4:M8:93:LEU:C	4:M8:216:ASN:HD21	2.07	0.62
2:N8:120:PHE:CE2	3:Q8:83:LEU:HD11	2.34	0.62
3:O8:92:TYR:OH	3:O8:108:ARG:HD2	1.99	0.62
3:O8:107:ASP:HA	5:Z8:66:ARG:HH11	1.63	0.62
3:Q8:78:ARG:NH1	12:Z8:301:CYC:CAD	2.54	0.62
5:Z8:31:TRP:HB3	5:Z8:32:PRO:CD	2.25	0.62
2:I9:4:VAL:HB	2:I9:30:ARG:HG3	1.80	0.62
11:aA:30:MET:HG2	11:aA:34:ILE:O	2.00	0.62
11:aA:338:VAL:HG13	11:aA:340:PRO:HD3	1.82	0.62
11:aA:414:ALA:CB	11:aA:428:PHE:HE1	2.10	0.62
11:aA:623:ASP:HB3	3:H1:78:ARG:HH22	1.35	0.62
4:M1:172:HIS:CE1	4:M1:249:ASP:OD2	2.52	0.62
3:DA:5:PHE:CD2	3:DA:27:LEU:HD22	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IA:97:LEU:HD13	2:IA:97:LEU:O	1.99	0.62
3:LA:14:LEU:HD11	11:aA:358:PRO:HB2	1.76	0.62
4:MA:190:ARG:HH11	4:MA:202:SER:HB3	1.63	0.62
3:J2:5:PHE:CD2	3:J2:27:LEU:HD22	2.34	0.62
6:M2:39:ARG:NH2	8:O5:66:VAL:CG1	2.60	0.62
6:M2:127:SER:CA	12:F2:201:CYC:HBA1	2.28	0.62
12:Z3:201:CYC:NB	4:M3:188:LEU:CD2	2.59	0.62
3:B4:41:VAL:HG21	3:B4:98:LEU:HB2	1.82	0.62
2:O3:63:PHE:CB	2:O3:66:LEU:HG	2.30	0.62
4:M4:138:SER:CB	12:Z4:301:CYC:CBB	2.51	0.62
5:Z4:42:SER:HA	12:Z4:301:CYC:HMA3	1.70	0.62
8:A5:126:VAL:HG23	12:A5:201:CYC:CMC	2.30	0.62
8:C5:35:ARG:NE	8:C5:145:ASP:OD1	2.33	0.62
8:G5:90:ARG:HD3	1:H5:18:TYR:CE1	2.34	0.62
8:I5:2:SER:C	8:I5:100:ASP:HB3	2.24	0.62
8:I5:35:ARG:NE	8:I5:145:ASP:OD1	2.33	0.62
1:J5:14:VAL:HG23	1:J5:14:VAL:O	1.98	0.62
3:L6:5:PHE:CD2	3:L6:27:LEU:HD22	2.34	0.62
10:j5:619:GLU:HB3	10:j5:620:PRO:CD	2.28	0.62
10:j5:642:ARG:HH11	10:j5:642:ARG:CG	2.07	0.62
10:j5:1020:GLU:O	10:j5:1024:LYS:HG3	2.00	0.62
10:j5:1067:LEU:HD13	10:j5:1101:GLU:HG2	1.78	0.62
10:k5:959:PHE:HD2	1:n7:67:ARG:HH12	1.47	0.62
8:C7:2:SER:C	8:C7:100:ASP:HB3	2.25	0.62
8:E7:126:VAL:HG22	12:E7:201:CYC:HMC1	1.80	0.62
8:i7:126:VAL:HG22	12:i7:201:CYC:HMC1	1.82	0.62
8:c7:18:LEU:HD22	1:d7:97:LEU:HD11	1.82	0.62
8:u7:30:VAL:HB	1:v7:31:PHE:CA	2.30	0.62
2:N8:111:ALA:HB1	5:Z8:35:ASP:OD2	1.99	0.62
2:N8:112:GLY:CA	5:Z8:34:LEU:CA	2.65	0.62
3:L9:5:PHE:CD2	3:L9:27:LEU:HD22	2.34	0.62
4:M9:274:VAL:CG2	2:W9:111:ALA:CB	2.77	0.62
3:F9:5:PHE:CD2	3:F9:27:LEU:HD22	2.34	0.62
3:H9:84:ARG:NH1	11:a9:475:ASN:HA	2.15	0.62
3:J9:20:SER:O	3:J9:22:GLN:CA	2.46	0.62
11:a9:194:GLN:OE1	11:a9:278:LEU:HB2	2.00	0.62
11:a9:312:ASP:CB	11:a9:315:LEU:HD13	2.19	0.62
11:aA:75:ALA:HB1	11:aA:81:ASP:CA	2.28	0.62
11:aA:371:VAL:O	11:aA:371:VAL:HG12	1.98	0.62
11:aA:388:VAL:HG12	11:aA:392:ILE:CD1	2.30	0.62
11:aA:668:TYR:HB2	3:J1:84:ARG:CD	2.21	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V1:5:PHE:CD2	3:V1:27:LEU:HD22	2.34	0.62
3:JA:5:PHE:CD2	3:JA:27:LEU:HD22	2.34	0.62
5:NA:22:LEU:HD21	5:NA:26:LEU:CD2	2.08	0.62
3:J3:5:PHE:CD2	3:J3:27:LEU:HD22	2.34	0.62
3:J3:77:ARG:HH12	2:K3:107:ASP:CG	2.07	0.62
6:M2:276:PRO:O	1:j7:62:TYR:O	2.18	0.62
12:D3:201:CYC:HC	12:D3:201:CYC:CMD	1.99	0.62
4:M3:80:PRO:CA	3:X3:111:ASN:HD21	2.10	0.62
3:T3:5:PHE:CD2	3:T3:27:LEU:HD22	2.34	0.62
12:U4:202:CYC:HC	12:U4:202:CYC:CMD	1.99	0.62
3:F4:5:PHE:CD2	3:F4:27:LEU:HD22	2.34	0.62
4:M4:61:ASN:C	4:M4:63:GLY:H	2.08	0.62
4:M4:148:LYS:HD2	5:Z4:52:ARG:NE	2.13	0.62
4:M4:190:ARG:HH11	4:M4:202:SER:HB3	1.63	0.62
4:M4:232:VAL:HG12	3:Y4:109:CYS:C	2.24	0.62
3:Q4:89:ILE:HA	3:Q4:92:TYR:CE2	2.34	0.62
8:A5:71:ASN:CG	12:A5:201:CYC:HMD3	2.24	0.62
8:E5:23:LEU:HD22	1:F5:38:VAL:HG13	1.81	0.62
1:H5:11:ASN:HA	10:j5:552:VAL:HG21	1.80	0.62
8:Q5:16:ARG:C	1:R5:90:ARG:HH11	2.06	0.62
1:T5:110:ASN:HD21	10:j5:692:LEU:CA	2.06	0.62
1:X5:50:THR:CG2	8:a5:49:ARG:NH2	2.58	0.62
1:X5:106:GLU:HG3	10:j5:505:VAL:HA	1.81	0.62
6:M6:65:VAL:HB	1:b7:59:ALA:O	2.00	0.62
7:N6:48:LEU:HB3	12:N6:101:CYC:HBA2	1.81	0.62
10:j5:804:GLU:CD	9:w7:30:LYS:CE	2.72	0.62
10:j5:1076:GLU:O	10:j5:1078:SER:N	2.30	0.62
10:k5:1020:GLU:O	10:k5:1024:LYS:HG3	1.99	0.62
8:g7:107:ILE:HG21	1:h7:13:ASP:OD1	2.00	0.62
8:i7:12:ASP:CG	9:y7:46:LYS:NZ	2.55	0.62
8:W7:12:ASP:C	9:w7:46:LYS:HZ3	2.05	0.62
8:o7:27:LYS:HE3	1:p7:35:ALA:CA	2.29	0.62
8:u7:23:LEU:CD2	1:v7:38:VAL:CG2	2.77	0.62
8:u7:47:ARG:HG2	8:u7:47:ARG:NH2	2.11	0.62
3:U8:114:LYS:HE2	4:M8:13:LYS:HE3	1.75	0.62
12:I8:201:CYC:HMD1	12:I8:201:CYC:NC	2.10	0.62
3:L8:109:CYS:SG	12:a9:901:CYC:HAB2	2.40	0.62
12:N8:201:CYC:HMD1	12:N8:201:CYC:NC	2.09	0.62
3:Q8:110:LEU:HB3	3:Q8:170:SER:CB	2.30	0.62
4:M9:37:GLU:CD	11:a9:381:PRO:HG3	2.25	0.62
5:N9:54:LEU:HD21	3:T9:84:ARG:CD	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z8:2:SER:OG	5:Z8:2:SER:O	2.15	0.62
5:Z8:29:HIS:ND1	5:Z8:31:TRP:CG	2.66	0.62
2:A9:63:PHE:HB2	2:A9:66:LEU:CG	2.27	0.62
3:B9:107:ASP:HA	11:a9:382:ASN:ND2	2.15	0.62
11:aA:430:ARG:HG2	11:aA:430:ARG:O	2.00	0.62
11:aA:670:LEU:HD21	3:J1:80:ALA:HB3	1.82	0.62
3:H1:5:PHE:CD2	3:H1:27:LEU:HD22	2.34	0.62
2:AA:63:PHE:CB	2:AA:66:LEU:HG	2.29	0.61
3:FA:5:PHE:CD2	3:FA:27:LEU:HD22	2.34	0.61
3:FA:68:ARG:NH2	3:ZA:68:ARG:NH1	2.48	0.61
3:FA:150:ARG:CG	3:F9:150:ARG:CB	2.54	0.61
3:HA:84:ARG:NH1	11:aA:475:ASN:HA	2.15	0.61
4:MA:22:SER:HB3	4:MA:23:PRO:HD2	1.82	0.61
4:MA:153:LYS:HD3	2:UA:14:SER:HB2	1.83	0.61
5:NA:61:LYS:HB3	3:TA:108:ARG:HA	1.81	0.61
2:QA:119:THR:HB	3:TA:83:LEU:HD11	1.75	0.61
3:VA:5:PHE:CD2	3:VA:27:LEU:HD22	2.34	0.61
3:J3:77:ARG:HG2	2:K3:111:ALA:HB1	1.80	0.61
3:H2:14:LEU:CD1	6:M2:69:ALA:HB2	2.30	0.61
3:D3:5:PHE:CD2	3:D3:27:LEU:HD22	2.34	0.61
2:C4:114:ARG:NH1	11:aA:134:GLU:CD	2.58	0.61
3:U4:120:LEU:CD1	4:M4:254:LEU:CG	2.65	0.61
8:K5:23:LEU:HD22	1:L5:38:VAL:HG13	1.81	0.61
8:K5:23:LEU:CD1	1:L5:42:ALA:HB2	2.29	0.61
1:D5:75:THR:HG21	8:E5:112:VAL:CB	2.30	0.61
8:S5:110:ILE:HD12	10:j5:533:LEU:HD12	1.82	0.61
8:W5:8:ILE:HG21	1:X5:94:TYR:HB3	1.80	0.61
12:L6:202:CYC:HC	12:L6:202:CYC:CMD	1.98	0.61
10:j5:545:GLY:HA2	10:j5:596:GLY:HA3	1.82	0.61
10:j5:974:LEU:O	10:j5:974:LEU:HD13	2.00	0.61
10:k5:619:GLU:HB2	10:k5:620:PRO:HD2	1.80	0.61
10:k5:1012:PRO:O	10:k5:1014:SER:N	2.33	0.61
8:g7:35:ARG:NE	8:g7:145:ASP:OD1	2.33	0.61
8:o7:23:LEU:CD2	1:p7:38:VAL:CB	2.74	0.61
9:x7:4:TYR:CB	9:x7:58:THR:OG1	2.40	0.61
12:M8:302:CYC:HMD3	3:S8:77:ARG:HH22	0.62	0.61
3:O8:112:GLY:C	5:Z8:70:ILE:HB	2.23	0.61
4:M9:134:ASN:CB	12:R9:201:CYC:HAA1	2.21	0.61
3:J9:65:ASP:CG	11:a9:354:VAL:HG21	2.25	0.61
11:a9:92:LYS:O	11:a9:94:GLY:N	2.33	0.61
11:aA:371:VAL:CG1	11:aA:507:PHE:CB	2.77	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HA:108:ARG:O	3:HA:108:ARG:HD2	2.00	0.61
2:OA:2:LYS:HE2	2:YA:22:THR:HG21	1.81	0.61
3:PA:5:PHE:CD2	3:PA:27:LEU:HD22	2.34	0.61
3:TA:32:LYS:HG2	2:X4:57:GLN:HE22	1.63	0.61
2:S1:13:ASP:O	5:N1:31:TRP:NE1	2.23	0.61
12:H3:201:CYC:HC	12:H3:201:CYC:CMD	1.99	0.61
3:Z3:5:PHE:CD2	3:Z3:27:LEU:HD22	2.34	0.61
2:A4:49:ASP:O	2:A4:52:VAL:N	2.33	0.61
4:M3:172:HIS:CE1	4:M3:249:ASP:OD2	2.52	0.61
12:Y3:201:CYC:HMD1	12:Y3:201:CYC:NC	2.09	0.61
3:B1:5:PHE:CD2	3:B1:27:LEU:HD22	2.34	0.61
4:M4:205:ASP:HB3	5:Z4:59:ARG:CZ	2.29	0.61
4:M4:215:GLU:N	5:Z4:28:HIS:O	2.29	0.61
12:M4:301:CYC:HAB2	3:Y4:89:ILE:HG12	1.83	0.61
2:N4:13:ASP:HB2	3:O4:108:ARG:HH12	1.65	0.61
8:K5:23:LEU:CD1	8:U5:151:PHE:CD1	2.83	0.61
8:K5:78:THR:O	8:K5:81:CYS:HB3	2.00	0.61
5:Z4:34:LEU:O	5:Z4:35:ASP:C	2.41	0.61
5:Z4:69:GLU:O	5:Z4:70:ILE:HG12	1.99	0.61
8:I5:35:ARG:NH2	8:I5:144:ASP:CB	2.61	0.61
12:P5:201:CYC:HBA2	10:k5:472:TYR:OH	2.00	0.61
6:M6:69:ALA:HB2	3:H6:14:LEU:CD1	2.30	0.61
6:M6:278:ARG:NH2	1:d7:64:ASP:N	2.48	0.61
10:k5:1085:GLY:HA3	1:l7:87:TYR:OH	1.99	0.61
10:k5:1119:LEU:HD12	10:k5:1119:LEU:O	2.00	0.61
3:F6:126:SER:C	12:F6:201:CYC:HMC3	2.22	0.61
3:D1:5:PHE:CD2	3:D1:27:LEU:HD22	2.34	0.61
8:C7:35:ARG:NE	8:C7:145:ASP:OD1	2.33	0.61
8:I7:29:PHE:CZ	8:I7:98:ALA:C	2.76	0.61
8:a7:37:LEU:CD1	1:b7:24:LEU:HD21	2.30	0.61
1:b7:27:LEU:HD23	1:b7:27:LEU:N	2.15	0.61
8:c7:49:ARG:NE	8:c7:140:LEU:HD21	2.14	0.61
3:B8:120:LEU:HD21	4:M8:49:LEU:O	2.00	0.61
3:D8:116:THR:OG1	4:M8:38:PRO:HA	2.00	0.61
9:w7:19:THR:O	9:w7:19:THR:HG23	2.01	0.61
4:M8:104:ALA:O	2:P8:14:SER:HB2	1.99	0.61
4:M8:197:ASP:CB	5:Z8:52:ARG:CG	2.42	0.61
4:M8:226:SER:OG	3:Y8:84:ARG:C	2.43	0.61
12:N8:201:CYC:HBB2	3:Q8:75:PRO:CB	2.29	0.61
3:L9:120:LEU:HD23	11:a9:539:GLY:H	1.64	0.61
4:M9:132:LEU:HD13	4:M9:142:PHE:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B9:5:PHE:CD2	3:B9:27:LEU:HD22	2.34	0.61
3:Z9:5:PHE:CD2	3:Z9:27:LEU:HD22	2.34	0.61
11:a9:824:VAL:O	11:a9:824:VAL:HG12	2.00	0.61
11:aA:632:ILE:HG23	11:aA:634:ALA:HB2	1.82	0.61
11:aA:776:TYR:H	12:H1:201:CYC:CGA	2.11	0.61
12:I1:201:CYC:HMD1	12:I1:201:CYC:NC	2.09	0.61
4:M1:273:ILE:HA	3:Z1:77:ARG:NH2	2.16	0.61
2:GA:119:THR:HG21	3:LA:83:LEU:HD11	1.83	0.61
3:JA:114:LYS:HE2	8:S7:60:GLN:NE2	2.15	0.61
4:MA:185:ALA:HB2	12:VA:201:CYC:CGA	2.29	0.61
5:NA:39:PRO:HB3	3:PA:116:THR:OG1	2.00	0.61
5:NA:69:GLU:O	5:NA:70:ILE:HG12	1.99	0.61
2:QA:25:GLN:HE22	2:UA:100:GLY:C	2.08	0.61
2:QA:112:GLY:O	3:TA:80:ALA:HB2	2.01	0.61
3:TA:32:LYS:HZ2	2:X4:60:TYR:HB2	1.63	0.61
2:O1:63:PHE:CB	2:O1:66:LEU:HG	2.30	0.61
2:K3:115:GLU:OE2	11:a9:670:LEU:HA	2.01	0.61
2:K2:22:THR:HG21	2:A2:2:LYS:HE2	1.81	0.61
3:D4:116:THR:HG1	4:M4:38:PRO:HB2	1.62	0.61
3:R3:5:PHE:CD2	3:R3:27:LEU:HD22	2.34	0.61
3:F4:107:ASP:OD2	4:M4:9:GLN:CA	2.49	0.61
3:J4:108:ARG:HH22	11:aA:171:ARG:CB	2.08	0.61
3:L4:68:ARG:NH1	11:aA:75:ALA:CB	2.58	0.61
2:N4:2:LYS:HE2	2:X4:22:THR:HG21	1.81	0.61
3:Q4:7:LYS:HE3	3:Q4:101:ASP:CG	2.24	0.61
3:Q4:102:ALA:HB2	3:Q4:166:LYS:NZ	2.15	0.61
8:M5:105:GLU:OE1	10:k5:532:THR:CG2	2.49	0.61
3:Y4:110:LEU:HD21	3:Y4:167:ALA:HA	1.80	0.61
8:A5:49:ARG:NH2	8:A5:140:LEU:HD22	2.15	0.61
8:G5:161:GLN:HG2	1:T5:49:THR:HG21	1.82	0.61
1:f5:18:TYR:CE1	10:j5:165:ARG:HB2	2.31	0.61
8:W5:16:ARG:C	1:X5:90:ARG:HH11	2.05	0.61
8:W5:23:LEU:HD13	1:X5:42:ALA:HB2	1.82	0.61
10:j5:925:ILE:HD12	10:j5:925:ILE:O	2.00	0.61
10:j5:1002:ARG:HA	10:j5:1007:VAL:HG13	1.82	0.61
10:k5:182:ASN:CB	12:k5:1201:CYC:HAB2	2.30	0.61
10:k5:385:PRO:O	10:k5:386:ILE:CG2	2.48	0.61
10:k5:748:ARG:NE	8:E7:106:GLU:CD	2.56	0.61
2:A6:63:PHE:CB	2:A6:66:LEU:HG	2.29	0.61
3:D6:5:PHE:CD2	3:D6:27:LEU:HD22	2.34	0.61
3:F6:5:PHE:CD2	3:F6:27:LEU:HD22	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O7:21:GLY:O	8:O7:22:GLU:C	2.42	0.61
8:I7:2:SER:C	8:I7:100:ASP:HB3	2.25	0.61
8:I7:25:ARG:NH2	8:W7:25:ARG:HE	1.97	0.61
1:b7:75:THR:HB	8:c7:112:VAL:HA	1.82	0.61
2:A8:63:PHE:CB	2:A8:66:LEU:HG	2.29	0.61
8:o7:30:VAL:HB	1:p7:31:PHE:CA	2.30	0.61
3:U8:108:ARG:NH2	4:M8:245:ASP:OD2	2.33	0.61
4:M9:172:HIS:CE1	4:M9:249:ASP:OD2	2.53	0.61
4:M9:274:VAL:CG2	3:V9:77:ARG:CB	2.73	0.61
2:A9:19:LEU:O	3:B9:45:THR:HG21	1.99	0.61
2:G1:111:ALA:HB3	3:L1:77:ARG:CD	2.30	0.61
11:aA:334:LYS:HG3	11:aA:334:LYS:O	2.00	0.61
11:aA:734:PHE:O	11:aA:738:LEU:HG	2.00	0.61
3:FA:37:ARG:CA	3:FA:156:LEU:HD21	2.30	0.61
3:JA:20:SER:C	3:JA:22:GLN:N	2.46	0.61
4:MA:77:LEU:HD21	3:ZA:115:GLU:OE2	2.00	0.61
5:NA:70:ILE:CG2	3:TA:116:THR:HA	2.17	0.61
12:J2:202:CYC:O2A	6:M2:185:PHE:CD2	2.41	0.61
6:M2:34:ARG:CD	8:O5:52:LYS:HD2	2.30	0.61
3:F3:84:ARG:CZ	4:M3:35:THR:CB	2.78	0.61
3:Z3:77:ARG:NH2	4:M3:273:ILE:HA	2.16	0.61
5:N3:66:ARG:NH1	5:N3:66:ARG:HB2	2.16	0.61
12:O3:201:CYC:HMD1	12:O3:201:CYC:NC	2.10	0.61
2:N4:13:ASP:OD2	3:O4:108:ARG:CZ	2.46	0.61
8:K5:23:LEU:CD1	8:U5:151:PHE:CE1	2.83	0.61
1:L5:69:GLY:C	10:j5:554:ASN:HD22	2.08	0.61
8:M5:106:GLU:HG2	10:k5:533:LEU:HD21	1.82	0.61
8:O5:29:PHE:CZ	8:O5:98:ALA:C	2.76	0.61
3:Y4:85:ASP:CA	3:Y4:88:ILE:HG12	2.30	0.61
8:Q5:17:TYR:HB2	1:R5:45:SER:CB	2.30	0.61
8:Q5:126:VAL:HG22	12:Q5:201:CYC:HMC1	1.81	0.61
1:b5:38:VAL:CG1	10:k5:40:VAL:HG13	2.01	0.61
10:j5:1055:SER:OG	12:r7:201:CYC:CBB	2.27	0.61
10:k5:949:ARG:HB2	10:k5:950:PRO:HD2	1.80	0.61
10:k5:1016:LEU:CG	10:k5:1017:ARG:H	2.12	0.61
10:k5:1071:PRO:O	10:k5:1071:PRO:HD2	1.99	0.61
2:A6:19:LEU:O	3:B6:45:THR:HG21	1.99	0.61
8:g7:33:GLY:C	1:h7:31:PHE:HE2	2.08	0.61
8:i7:39:ILE:HG23	8:i7:149:ALA:HB2	1.81	0.61
3:B8:116:THR:CG2	4:M8:53:LEU:HD12	2.27	0.61
8:o7:47:ARG:HG2	8:o7:47:ARG:NH2	2.11	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:o7:58:LEU:HD12	8:o7:58:LEU:C	2.25	0.61
3:L8:108:ARG:O	12:a9:901:CYC:CBB	2.38	0.61
4:M8:27:HIS:CD2	4:M8:34:ASP:HB3	2.34	0.61
12:M8:301:CYC:CMC	3:Y8:127:VAL:HG23	2.29	0.61
2:N8:13:ASP:CB	3:O8:108:ARG:HH12	2.13	0.61
2:O9:63:PHE:HB2	2:O9:66:LEU:CG	2.28	0.61
5:Z8:29:HIS:ND1	5:Z8:31:TRP:CD1	2.68	0.61
11:a9:50:LEU:O	11:a9:53:VAL:N	2.33	0.61
11:a9:290:ASP:O	11:a9:291:TYR:HD1	1.73	0.61
11:a9:338:VAL:HG13	11:a9:340:PRO:HD3	1.82	0.61
11:aA:112:GLU:O	11:aA:113:ALA:C	2.44	0.61
3:J1:5:PHE:CD2	3:J1:27:LEU:HD22	2.34	0.61
5:N1:1:MET:C	5:N1:3:VAL:N	2.50	0.61
1:A:73:TYR:OH	10:k5:162:TRP:CE2	2.54	0.61
4:MA:192:GLN:CG	3:VA:84:ARG:HG3	2.29	0.61
2:QA:13:ASP:OD1	3:RA:91:ARG:NH1	2.32	0.61
2:QA:18:PHE:CE1	3:RA:48:ALA:HB1	2.35	0.61
2:QA:33:ARG:NH2	12:VA:202:CYC:HBB2	2.15	0.61
2:SA:42:ARG:CD	2:X4:69:PRO:HD2	2.31	0.61
2:O1:63:PHE:HB2	2:O1:66:LEU:CG	2.28	0.61
3:L3:107:ASP:O	11:a9:710:THR:O	2.18	0.61
3:H4:80:ALA:C	3:H4:84:ARG:HH11	2.08	0.61
2:N4:63:PHE:CB	2:N4:66:LEU:HG	2.29	0.61
8:M5:107:ILE:HD13	1:N5:13:ASP:OD1	2.00	0.61
3:Y4:89:ILE:CG1	3:Y4:92:TYR:OH	2.48	0.61
8:A5:64:ASP:HA	8:A5:67:SER:CB	2.30	0.61
10:j5:793:SER:HB3	12:T7:201:CYC:CBA	2.29	0.61
10:j5:1007:VAL:HG22	10:j5:1007:VAL:O	1.99	0.61
10:k5:844:GLN:O	10:k5:844:GLN:HG3	2.00	0.61
10:k5:1055:SER:HB2	12:k5:1203:CYC:HAB2	1.80	0.61
10:k5:1119:LEU:HD11	12:k5:1204:CYC:C4B	2.28	0.61
8:i7:94:TYR:CG	1:j7:9:ILE:CG2	2.82	0.61
8:a7:102:THR:CB	8:a7:103:PRO:CD	2.64	0.61
2:X8:69:PRO:HD2	2:S9:42:ARG:CD	2.31	0.61
3:H8:84:ARG:CD	11:a9:131:TYR:CE1	2.79	0.61
3:O8:108:ARG:HB3	5:Z8:61:LYS:CD	2.20	0.61
3:O8:111:ASN:HB3	5:Z8:67:ILE:CB	2.10	0.61
3:L9:38:LEU:HD23	3:L9:98:LEU:HD11	1.83	0.61
5:Z8:37:HIS:CE1	12:Z8:301:CYC:HMA3	2.35	0.61
11:a9:278:LEU:CD1	11:a9:278:LEU:H	1.95	0.61
11:a9:734:PHE:O	11:a9:738:LEU:HG	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:710:THR:HG21	11:aA:807:GLN:CD	2.21	0.61
11:aA:798:SER:HB2	11:aA:800:THR:CG2	2.20	0.61
4:M1:61:ASN:C	4:M1:63:GLY:H	2.08	0.61
4:M1:132:LEU:HD13	4:M1:142:PHE:HB2	1.82	0.61
5:N1:22:LEU:HD21	5:N1:26:LEU:CG	2.29	0.61
1:A:127:VAL:HG11	1:R5:15:GLN:CB	2.29	0.61
2:QA:149:GLU:CD	2:UA:21:ASN:OD1	2.43	0.61
2:G2:16:GLY:HA2	6:M2:104:ARG:NH1	2.13	0.61
12:G2:201:CYC:HB	12:G2:201:CYC:HMA2	1.66	0.61
2:O3:63:PHE:HB2	2:O3:66:LEU:CG	2.27	0.61
12:L4:202:CYC:CBB	11:aA:245:ALA:HB2	2.22	0.61
2:N4:49:ASP:O	2:N4:52:VAL:N	2.33	0.61
8:M5:20:PRO:HB2	8:A5:100:ASP:OD2	1.98	0.61
5:Z4:28:HIS:HB3	5:Z4:35:ASP:CA	2.30	0.61
8:E5:17:TYR:CB	1:F5:45:SER:CB	2.79	0.61
8:G5:126:VAL:HG23	12:G5:201:CYC:CMC	2.30	0.61
1:H5:83:ARG:HD2	9:i5:18:ARG:O	1.99	0.61
12:P5:201:CYC:CBB	10:k5:623:VAL:CG2	2.75	0.61
8:a5:35:ARG:NE	8:a5:145:ASP:OD1	2.33	0.61
1:b5:5:ILE:CD1	10:k5:46:PHE:HE1	2.08	0.61
3:J6:84:ARG:HD2	6:M6:185:PHE:CZ	2.35	0.61
10:j5:385:PRO:O	10:j5:386:ILE:CG2	2.48	0.61
10:k5:1152:TYR:HE2	8:G7:68:PRO:CG	1.84	0.61
8:i7:25:ARG:NH2	8:s7:3:VAL:C	2.57	0.61
1:V7:53:LYS:NZ	8:W7:120:GLN:CD	2.58	0.61
3:F8:118:VAL:CG1	3:Y8:119:ALA:HA	2.30	0.61
3:J8:108:ARG:HH22	11:a9:171:ARG:CB	2.06	0.61
3:L8:59:LEU:CD2	12:a9:901:CYC:CMC	2.68	0.61
3:Y8:89:ILE:CG1	3:Y8:92:TYR:OH	2.48	0.61
3:J9:65:ASP:OD2	11:a9:354:VAL:HG21	1.99	0.61
11:aA:194:GLN:OE1	11:aA:278:LEU:HB2	2.00	0.61
11:aA:312:ASP:C	11:aA:314:SER:N	2.45	0.61
2:A2:49:ASP:O	2:A2:52:VAL:N	2.33	0.61
1:Z:76:ARG:HH21	10:j5:16:LEU:CD1	2.14	0.61
12:DA:202:CYC:HC	12:DA:202:CYC:CMD	1.99	0.61
4:MA:61:ASN:C	4:MA:63:GLY:H	2.08	0.61
4:MA:172:HIS:CE1	4:MA:249:ASP:OD2	2.53	0.61
5:NA:6:GLY:N	3:RA:111:ASN:O	2.34	0.61
5:NA:66:ARG:NH1	3:TA:111:ASN:OD1	2.30	0.61
2:G3:107:ASP:CG	3:L3:77:ARG:HH12	2.08	0.61
7:N2:49:LEU:HG	12:N2:101:CYC:HB	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A3:49:ASP:O	2:A3:52:VAL:N	2.33	0.61
12:Z3:201:CYC:HB	4:M3:188:LEU:HD22	1.63	0.61
3:Y4:88:ILE:HA	3:Y4:91:ARG:NH2	2.15	0.61
8:A5:106:GLU:OE1	10:k5:557:VAL:CG1	2.43	0.61
8:A5:122:PRO:HG2	12:A5:201:CYC:CMC	2.27	0.61
1:P5:114:GLU:OE1	10:k5:496:GLU:CG	2.47	0.61
8:S5:107:ILE:HD13	1:T5:13:ASP:OD1	2.00	0.61
12:X5:201:CYC:CBB	10:j5:520:ARG:CZ	2.79	0.61
10:k5:344:ARG:HH11	10:k5:344:ARG:HG2	1.64	0.61
3:F6:82:CYS:CB	12:F6:201:CYC:HMD3	2.17	0.61
1:J7:76:ARG:HD3	8:K7:110:ILE:CD1	2.29	0.61
8:i7:54:ALA:HB2	8:i7:133:MET:CG	2.26	0.61
8:i7:96:ILE:CA	8:i7:152:TYR:CD2	2.84	0.61
8:U7:17:TYR:CZ	1:V7:90:ARG:HA	2.36	0.61
8:c7:12:ASP:HA	1:d7:90:ARG:HH11	1.64	0.61
8:o7:30:VAL:CB	1:p7:31:PHE:O	2.47	0.61
9:x7:6:LYS:HG2	9:x7:6:LYS:O	2.01	0.61
4:M8:104:ALA:HB3	2:P8:14:SER:HA	1.81	0.61
2:N8:13:ASP:HB2	3:O8:108:ARG:HH12	1.65	0.61
2:N8:19:LEU:O	3:O8:45:THR:HG21	1.99	0.61
12:F1:201:CYC:OB	4:M1:28:HIS:NE2	2.21	0.61
11:aA:403:THR:CG2	11:aA:536:THR:HG23	1.95	0.61
4:M1:118:TYR:CD2	3:X1:84:ARG:CZ	2.84	0.61
1:A:16:GLY:CA	8:a5:90:ARG:CZ	2.79	0.61
12:BA:201:CYC:HBB2	4:MA:38:PRO:HD3	1.82	0.61
3:FA:150:ARG:CG	3:F9:150:ARG:CA	2.69	0.61
3:JA:65:ASP:CG	11:aA:354:VAL:HG21	2.25	0.61
3:LA:38:LEU:HD23	3:LA:98:LEU:HD11	1.83	0.61
4:MA:232:VAL:HG11	3:XA:111:ASN:O	1.95	0.61
12:R1:201:CYC:O1D	5:N1:50:LEU:HD21	2.01	0.61
2:A1:49:ASP:O	2:A1:52:VAL:N	2.33	0.61
3:U4:115:GLU:CG	4:M4:71:PRO:HD2	2.30	0.61
4:M4:53:LEU:HD12	4:M4:53:LEU:O	2.01	0.61
4:M4:128:ALA:HB1	4:M4:142:PHE:HE1	1.59	0.61
3:Q4:120:LEU:HD11	5:Z4:39:PRO:C	2.25	0.61
3:Y4:110:LEU:HD22	3:Y4:170:SER:HB3	1.83	0.61
5:Z4:66:ARG:NH1	5:Z4:66:ARG:HB2	2.16	0.61
1:f5:5:ILE:HD13	10:j5:46:PHE:HZ	1.65	0.61
12:R5:201:CYC:HBB2	10:k5:520:ARG:HG2	1.82	0.61
1:Z5:127:VAL:CB	10:k5:698:GLY:CA	2.77	0.61
10:j5:774:GLN:HA	10:j5:774:GLN:HE21	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:849:LYS:HG2	10:k5:849:LYS:O	2.00	0.61
10:k5:925:ILE:O	10:k5:925:ILE:HD12	2.00	0.61
10:k5:974:LEU:O	10:k5:974:LEU:HD13	2.00	0.61
10:k5:1002:ARG:HA	10:k5:1007:VAL:HG13	1.82	0.61
10:k5:1077:ILE:HG22	12:k5:1203:CYC:CAA	2.31	0.61
1:R7:107:ARG:HG2	9:z7:45:GLN:HB2	1.82	0.61
1:h7:27:LEU:N	1:h7:27:LEU:HD23	2.15	0.61
2:C8:114:ARG:NH1	11:a9:134:GLU:CD	2.59	0.61
8:u7:30:VAL:CB	1:v7:31:PHE:O	2.47	0.61
3:T9:5:PHE:CD2	3:T9:27:LEU:HD22	2.35	0.61
11:a9:388:VAL:HG12	11:a9:392:ILE:CD1	2.30	0.61
11:a9:763:PHE:CE1	11:a9:769:PRO:HA	2.36	0.61
11:aA:716:ILE:HD11	11:aA:738:LEU:HD23	1.83	0.61
11:aA:782:ALA:HB3	3:H1:111:ASN:O	2.01	0.61
2:OA:33:ARG:CZ	2:YA:28:ASN:CG	2.74	0.61
2:OA:49:ASP:O	2:OA:52:VAL:N	2.33	0.61
2:SA:39:GLU:CA	2:X4:69:PRO:CB	2.73	0.61
12:G2:201:CYC:OB	3:L2:74:TYR:O	2.19	0.61
2:A4:2:LYS:HE2	2:K4:22:THR:HG21	1.81	0.61
4:M3:22:SER:HB3	4:M3:23:PRO:HD2	1.82	0.61
5:N3:16:PHE:CZ	3:R3:120:LEU:HD21	2.35	0.61
4:M4:22:SER:HB3	4:M4:23:PRO:HD2	1.83	0.61
4:M4:82:ILE:HD12	12:M4:301:CYC:CGD	2.24	0.61
2:N4:13:ASP:CB	3:O4:108:ARG:HH12	2.13	0.61
2:N4:111:ALA:N	5:Z4:34:LEU:HD12	2.16	0.61
3:Y4:113:LEU:HD11	3:Y4:171:ILE:HG23	1.82	0.61
12:H5:201:CYC:CAA	9:i5:26:THR:HG21	2.31	0.61
1:d5:62:TYR:CE1	12:e5:201:CYC:O1D	2.54	0.61
8:Q5:23:LEU:HD13	1:R5:42:ALA:HB2	1.82	0.61
8:U5:76:LYS:O	8:U5:77:MET:C	2.43	0.61
8:a5:2:SER:C	8:a5:100:ASP:CB	2.74	0.61
12:K6:201:CYC:HMD1	12:K6:201:CYC:NC	2.09	0.61
7:N6:5:VAL:HG23	3:F6:108:ARG:NH1	2.16	0.61
9:i5:8:THR:HB	9:i5:52:LEU:HB2	1.83	0.61
10:j5:732:ARG:CZ	1:J7:69:GLY:HA3	2.30	0.61
10:k5:1018:LEU:HD13	10:k5:1035:PHE:HE2	1.53	0.61
10:k5:1118:THR:C	12:k5:1204:CYC:HMA2	2.24	0.61
3:F6:84:ARG:NH2	12:F6:201:CYC:O2A	2.33	0.61
8:g7:33:GLY:C	1:h7:31:PHE:CE2	2.79	0.61
8:c7:13:ALA:HA	9:x7:46:LYS:HE3	1.81	0.61
2:A8:49:ASP:O	2:A8:52:VAL:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H8:84:ARG:CD	11:a9:131:TYR:CB	2.74	0.61
12:K8:201:CYC:HMA2	12:K8:201:CYC:HB	1.66	0.61
4:M8:100:SER:HA	4:M8:103:GLN:HB3	1.83	0.61
4:M8:141:GLU:OE1	4:M8:144:ARG:NE	2.33	0.61
4:M8:172:HIS:CE1	4:M8:249:ASP:OD2	2.52	0.61
4:M9:77:LEU:HD21	3:Z9:115:GLU:OE2	2.00	0.61
4:M9:185:ALA:HB2	12:V9:201:CYC:CGA	2.29	0.61
2:O9:49:ASP:O	2:O9:52:VAL:N	2.33	0.61
2:O9:63:PHE:CB	2:O9:66:LEU:HG	2.30	0.61
3:Y8:95:TYR:HB2	3:Y8:104:VAL:HG11	1.82	0.61
3:F9:68:ARG:NH2	3:Z9:68:ARG:NH1	2.48	0.61
3:X9:5:PHE:CD2	3:X9:27:LEU:HD22	2.34	0.61
11:a9:274:LEU:O	11:a9:278:LEU:CD1	2.49	0.61
3:FA:150:ARG:HD2	3:F9:150:ARG:CD	2.31	0.61
3:HA:84:ARG:O	11:aA:478:HIS:CE1	2.54	0.61
2:IA:1:MET:HE1	2:IA:108:TYR:CE1	2.36	0.61
4:MA:53:LEU:HD12	4:MA:53:LEU:O	2.01	0.61
12:QA:201:CYC:HMA2	12:QA:201:CYC:HB	1.66	0.61
2:O1:2:LYS:HE2	2:Y1:22:THR:CB	2.31	0.61
2:K3:22:THR:CB	2:A3:2:LYS:HE2	2.31	0.61
3:J2:84:ARG:HD2	6:M2:185:PHE:CZ	2.35	0.61
12:K2:201:CYC:HMD1	12:K2:201:CYC:NC	2.09	0.61
4:M3:132:LEU:HD13	4:M3:142:PHE:HB2	1.82	0.61
2:T4:115:GLU:OE2	3:Y4:84:ARG:NH2	2.28	0.61
4:M4:172:HIS:CE1	4:M4:249:ASP:OD2	2.53	0.61
3:Q4:7:LYS:CE	3:Q4:101:ASP:CG	2.74	0.61
1:L5:75:THR:CB	8:G5:112:VAL:HA	2.28	0.61
12:H5:201:CYC:OB	9:i5:23:LEU:N	2.34	0.61
8:c5:14:GLU:OE2	10:j5:393:MET:CG	2.48	0.61
1:f5:18:TYR:CD2	10:j5:165:ARG:CG	2.82	0.61
1:P5:87:TYR:CE2	10:k5:649:PHE:CZ	2.88	0.61
8:Q5:17:TYR:CB	1:R5:45:SER:CB	2.78	0.61
8:U5:2:SER:C	8:U5:100:ASP:CB	2.74	0.61
9:z5:8:THR:HB	9:z5:52:LEU:HB2	1.83	0.61
10:k5:1007:VAL:HG22	10:k5:1007:VAL:O	1.99	0.61
10:k5:1009:ALA:CA	1:p7:87:TYR:HE1	2.13	0.61
2:A6:49:ASP:O	2:A6:52:VAL:N	2.33	0.61
2:C6:69:PRO:HG2	3:J8:125:ARG:CZ	2.30	0.61
8:O7:2:SER:C	8:O7:100:ASP:CB	2.74	0.61
8:C7:2:SER:C	8:C7:100:ASP:CB	2.74	0.61
8:g7:37:LEU:CD1	1:h7:24:LEU:HD21	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A8:2:LYS:HE2	2:K8:22:THR:CB	2.31	0.61
8:m7:2:SER:C	8:m7:100:ASP:HB3	2.25	0.61
8:m7:16:ARG:HH12	8:m7:19:SER:HB3	1.64	0.61
8:u7:2:SER:HB3	1:v7:5:ILE:HG21	1.83	0.61
4:M8:260:ARG:HG3	4:M8:260:ARG:HH11	1.66	0.61
4:M9:22:SER:HB3	4:M9:23:PRO:HD2	1.82	0.61
2:O9:2:LYS:HE2	2:Y9:22:THR:HG21	1.81	0.61
2:A9:149:GLU:OE2	2:K9:21:ASN:ND2	2.31	0.61
2:I9:97:LEU:HD13	2:I9:97:LEU:O	1.99	0.61
2:G1:107:ASP:CG	3:L1:77:ARG:HH12	2.08	0.61
11:a9:75:ALA:HB1	11:a9:81:ASP:CA	2.28	0.61
1:A:13:ASP:CG	8:a5:107:ILE:CD1	2.74	0.60
4:MA:159:CYS:O	3:VA:107:ASP:O	2.19	0.60
3:R1:120:LEU:HD21	5:N1:16:PHE:CZ	2.35	0.60
2:A1:2:LYS:HE2	2:K1:22:THR:HG21	1.81	0.60
2:A1:33:ARG:CZ	2:K1:28:ASN:CG	2.74	0.60
2:A1:63:PHE:HB2	2:A1:66:LEU:CG	2.28	0.60
3:J3:77:ARG:CD	2:K3:111:ALA:HB3	2.30	0.60
3:J3:84:ARG:HB2	11:a9:668:TYR:CD2	2.34	0.60
6:M2:34:ARG:CD	8:O5:52:LYS:HB2	2.26	0.60
7:N2:5:VAL:HG23	3:F2:108:ARG:NH1	2.16	0.60
3:B3:127:VAL:HG22	12:B3:202:CYC:C3C	2.29	0.60
3:B4:120:LEU:CD1	4:M4:53:LEU:HA	2.21	0.60
5:N3:31:TRP:HZ2	3:T3:92:TYR:HH	1.42	0.60
2:O3:2:LYS:HE2	2:Y3:22:THR:CB	2.31	0.60
2:O3:49:ASP:O	2:O3:52:VAL:N	2.33	0.60
3:O4:92:TYR:OH	3:O4:108:ARG:CD	2.39	0.60
8:K5:17:TYR:CB	1:L5:45:SER:CB	2.79	0.60
8:K5:128:GLU:HA	8:K5:128:GLU:OE1	1.99	0.60
5:Z4:29:HIS:HE2	5:Z4:38:GLU:N	1.99	0.60
8:A5:114:GLU:HB2	1:F5:79:ALA:HB2	1.83	0.60
8:C5:2:SER:C	8:C5:100:ASP:CB	2.74	0.60
12:F5:201:CYC:OB	10:k5:588:VAL:CG2	2.49	0.60
8:G5:53:GLN:HE21	8:G5:57:GLN:HE21	1.49	0.60
6:M6:247:THR:OG1	12:H6:201:CYC:HBA2	2.01	0.60
9:z5:10:CYS:N	9:z5:50:LYS:O	2.32	0.60
10:j5:372:ARG:NH2	10:j5:376:GLN:HE21	1.99	0.60
10:j5:932:GLN:HG2	10:j5:932:GLN:O	2.01	0.60
10:k5:961:GLY:O	1:p7:15:GLN:HG2	2.01	0.60
3:D1:68:ARG:HH12	3:X1:68:ARG:NH2	1.97	0.60
8:g7:2:SER:C	8:g7:100:ASP:CB	2.74	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E8:1:MET:H3	4:M8:10:ARG:NH2	1.98	0.60
8:o7:94:TYR:CD1	1:p7:19:LEU:HG	2.36	0.60
8:u7:94:TYR:CD1	1:v7:19:LEU:HG	2.36	0.60
2:X8:22:THR:CB	2:N8:2:LYS:HE2	2.31	0.60
3:Q8:110:LEU:HD13	3:Q8:170:SER:HB2	1.82	0.60
3:Q8:127:VAL:CG2	12:Z8:301:CYC:HMC3	2.04	0.60
4:M9:58:TYR:CD2	11:a9:496:ARG:CZ	2.72	0.60
4:M9:232:VAL:HG11	3:X9:111:ASN:O	1.95	0.60
2:O9:33:ARG:CZ	2:Y9:28:ASN:CG	2.74	0.60
3:B9:26:GLN:O	3:B9:30:LEU:HD11	1.98	0.60
3:R9:5:PHE:CD2	3:R9:27:LEU:HD22	2.34	0.60
11:a9:89:ALA:CA	11:a9:92:LYS:NZ	2.64	0.60
11:a9:98:ILE:HG22	11:a9:99:ALA:O	2.01	0.60
11:a9:308:LEU:HD23	11:a9:308:LEU:C	2.26	0.60
11:aA:274:LEU:O	11:aA:278:LEU:CD1	2.49	0.60
11:aA:327:SER:O	11:aA:328:GLN:C	2.40	0.60
4:M1:22:SER:HB3	4:M1:23:PRO:HD2	1.82	0.60
2:A2:63:PHE:HB2	2:A2:66:LEU:CG	2.28	0.60
1:Z:62:TYR:HD1	10:j5:155:LYS:HZ1	1.49	0.60
2:AA:33:ARG:CZ	2:KA:28:ASN:CG	2.74	0.60
4:MA:263:PRO:O	3:VA:119:ALA:HB1	1.99	0.60
2:OA:2:LYS:HE2	2:YA:22:THR:CB	2.31	0.60
12:QA:201:CYC:HMA1	3:TA:79:MET:CE	2.31	0.60
2:O1:49:ASP:O	2:O1:52:VAL:N	2.33	0.60
12:T4:201:CYC:HMA2	12:T4:201:CYC:HB	1.66	0.60
4:M4:128:ALA:O	4:M4:142:PHE:HE1	1.81	0.60
4:M4:232:VAL:CA	12:M4:301:CYC:HBB2	2.30	0.60
2:N4:33:ARG:CZ	2:X4:28:ASN:CG	2.74	0.60
3:Q4:85:ASP:HB3	3:Q4:88:ILE:HD12	1.83	0.60
8:M5:38:ARG:CD	1:J7:144:ASP:OD1	2.49	0.60
12:N5:201:CYC:CBB	10:k5:482:GLN:NE2	2.64	0.60
3:Y4:108:ARG:O	3:Y4:109:CYS:HB3	2.00	0.60
5:Z4:44:TYR:O	5:Z4:44:TYR:CD2	2.53	0.60
8:C5:35:ARG:NH2	8:C5:144:ASP:CB	2.61	0.60
8:G5:6:LYS:HZ3	8:S5:19:SER:CB	1.90	0.60
8:G5:64:ASP:HA	8:G5:67:SER:CB	2.30	0.60
8:I5:2:SER:C	8:I5:100:ASP:CB	2.74	0.60
1:P5:61:ILE:HB	12:Q5:201:CYC:O2A	2.01	0.60
1:Z5:62:TYR:CE1	12:a5:201:CYC:O1D	2.54	0.60
2:K6:28:ASN:CG	2:A6:33:ARG:CZ	2.75	0.60
10:k5:388:ARG:CD	10:k5:393:MET:N	2.61	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:390:GLN:HA	10:k5:390:GLN:OE1	2.02	0.60
10:k5:742:GLY:CA	12:D7:201:CYC:O1D	2.48	0.60
10:k5:803:LYS:CE	9:z7:43:ARG:HH11	2.14	0.60
10:k5:948:SER:O	10:k5:948:SER:OG	2.16	0.60
10:k5:1155:ARG:HH21	10:k5:1155:ARG:CB	2.09	0.60
8:i7:21:GLY:HA3	8:s7:100:ASP:CG	2.17	0.60
8:i7:21:GLY:CA	8:s7:101:VAL:H	2.14	0.60
8:a7:2:SER:C	8:a7:100:ASP:CB	2.74	0.60
3:L8:84:ARG:NH2	12:a9:901:CYC:O2A	2.35	0.60
4:M8:29:PRO:CG	11:a9:230:THR:OG1	2.49	0.60
4:M8:61:ASN:C	4:M8:63:GLY:H	2.08	0.60
4:M8:100:SER:H	3:Q8:1:MET:CE	2.13	0.60
4:M9:38:PRO:HD3	12:B9:201:CYC:HBB2	1.82	0.60
4:M9:61:ASN:C	4:M9:63:GLY:H	2.08	0.60
4:M9:92:GLU:O	4:M9:92:GLU:HG3	1.99	0.60
5:N9:6:GLY:N	3:R9:111:ASN:O	2.34	0.60
12:O9:201:CYC:HMD1	12:O9:201:CYC:NC	2.09	0.60
11:a9:627:GLN:N	11:a9:627:GLN:OE1	2.35	0.60
11:aA:92:LYS:O	11:aA:94:GLY:N	2.33	0.60
11:aA:275:THR:CA	11:aA:278:LEU:HD13	2.03	0.60
11:aA:667:THR:CG2	12:aA:901:CYC:HBA1	2.22	0.60
4:MA:5:THR:C	4:MA:6:THR:HG1	2.02	0.60
12:O1:201:CYC:HB	12:O1:201:CYC:HMA2	1.67	0.60
12:P1:201:CYC:CBA	4:M1:130:SER:O	2.49	0.60
2:G3:111:ALA:HB3	3:L3:77:ARG:CD	2.31	0.60
12:P4:201:CYC:HMA2	12:P4:201:CYC:HB	1.67	0.60
8:K5:107:ILE:HG22	8:K5:107:ILE:O	2.01	0.60
5:Z4:3:VAL:O	5:Z4:4:LEU:C	2.44	0.60
8:G5:49:ARG:NH2	8:G5:140:LEU:HD22	2.15	0.60
1:P5:87:TYR:HE2	10:k5:649:PHE:CZ	2.14	0.60
1:V5:61:ILE:HB	12:W5:201:CYC:O2A	2.01	0.60
8:a5:93:THR:O	8:a5:97:VAL:HG22	2.02	0.60
6:M6:287:TYR:HB3	8:Y7:73:TYR:OH	2.01	0.60
10:j5:588:VAL:O	10:j5:588:VAL:HG13	2.00	0.60
10:j5:868:ASP:C	9:w7:43:ARG:NE	2.36	0.60
10:j5:1012:PRO:O	10:j5:1014:SER:N	2.33	0.60
10:j5:1119:LEU:HD12	10:j5:1119:LEU:O	2.00	0.60
10:k5:309:LEU:HD13	10:k5:342:LEU:HD13	1.81	0.60
10:k5:545:GLY:HA2	10:k5:596:GLY:HA3	1.82	0.60
10:k5:774:GLN:HA	10:k5:774:GLN:HE21	1.65	0.60
10:k5:932:GLN:HG2	10:k5:932:GLN:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:1001:TYR:OH	10:k5:1018:LEU:HG	2.01	0.60
10:k5:1150:TYR:HE1	11:a9:38:VAL:HG13	1.66	0.60
8:i7:49:ARG:NE	8:i7:140:LEU:HD21	2.14	0.60
12:b7:201:CYC:HBB1	9:x7:21:ARG:CZ	2.30	0.60
8:c7:20:PRO:HD2	8:m7:155:TYR:CD1	2.37	0.60
1:d7:110:ASN:HD21	9:x7:51:VAL:H	1.49	0.60
1:f7:67:ARG:HD3	11:aA:311:LEU:CG	2.29	0.60
3:B8:81:ALA:HB1	12:B8:202:CYC:HMD1	0.61	0.60
8:s7:35:ARG:NE	8:s7:145:ASP:OD1	2.33	0.60
12:T8:201:CYC:HMA2	12:T8:201:CYC:HB	1.66	0.60
3:U8:120:LEU:HD23	3:U8:122:THR:OG1	2.01	0.60
3:L8:82:CYS:CB	12:a9:901:CYC:NC	2.64	0.60
4:M8:22:SER:HB3	4:M8:23:PRO:HD2	1.83	0.60
4:M8:86:ALA:HB3	3:Y8:77:ARG:HD2	1.83	0.60
3:L9:84:ARG:CZ	11:a9:406:LEU:HD23	2.31	0.60
5:N9:22:LEU:HD21	5:N9:26:LEU:CD1	2.15	0.60
3:Y8:89:ILE:HG12	3:Y8:92:TYR:CE2	2.37	0.60
3:Y8:93:VAL:HG22	3:Y8:105:LEU:HD21	1.83	0.60
5:Z8:22:LEU:HD21	5:Z8:26:LEU:CG	2.29	0.60
11:a9:89:ALA:O	11:a9:92:LYS:N	2.34	0.60
11:a9:430:ARG:HG2	11:a9:430:ARG:O	2.00	0.60
12:K1:201:CYC:HB	12:K1:201:CYC:HMA2	1.66	0.60
4:M1:148:LYS:CD	4:M1:197:ASP:OD1	2.37	0.60
4:M1:160:THR:HG22	4:M1:257:GLN:HB3	1.73	0.60
5:N1:2:SER:O	5:N1:2:SER:OG	2.16	0.60
3:BA:107:ASP:HA	11:aA:382:ASN:ND2	2.15	0.60
3:HA:117:TYR:CE1	12:HA:202:CYC:NA	2.69	0.60
12:O1:201:CYC:CBB	3:R1:74:TYR:CE1	2.83	0.60
12:A1:201:CYC:HMD1	12:A1:201:CYC:NC	2.10	0.60
3:H3:125:ARG:NH2	8:k7:45:GLU:OE1	2.34	0.60
2:K3:22:THR:HG21	2:A3:2:LYS:HE2	1.81	0.60
12:H2:201:CYC:HBA2	6:M2:247:THR:OG1	2.01	0.60
7:N2:48:LEU:HB3	12:N2:101:CYC:HBA2	1.81	0.60
3:Z3:84:ARG:HH11	4:M3:189:ASP:CG	2.09	0.60
3:B4:105:LEU:HD11	3:B4:110:LEU:HD21	1.81	0.60
5:N3:53:LEU:HB3	12:R3:201:CYC:HBA2	1.83	0.60
12:H4:201:CYC:HBA2	11:aA:261:SER:OG	2.01	0.60
4:M4:86:ALA:CB	3:Y4:77:ARG:HH11	2.14	0.60
4:M4:226:SER:OG	3:Y4:85:ASP:HA	2.00	0.60
3:O4:104:VAL:HA	5:Z4:61:LYS:CE	2.31	0.60
8:K5:23:LEU:HD12	8:U5:151:PHE:HD1	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K5:36:ARG:HH12	8:U5:24:ASP:CG	1.97	0.60
1:R5:106:GLU:HG2	10:k5:505:VAL:HA	1.82	0.60
1:T5:53:LYS:HZ3	8:U5:120:GLN:HG3	1.67	0.60
8:U5:35:ARG:NE	8:U5:145:ASP:OD1	2.33	0.60
1:b5:24:LEU:HD22	10:k5:54:ILE:HG23	1.82	0.60
9:z5:5:PHE:HA	9:z5:55:LYS:O	2.01	0.60
10:j5:190:LEU:HD22	10:j5:194:CYS:SG	2.41	0.60
10:j5:283:ARG:HD3	10:j5:283:ARG:C	2.27	0.60
10:j5:344:ARG:NH1	10:j5:344:ARG:HG2	2.16	0.60
10:j5:1147:TYR:O	10:j5:1147:TYR:HD1	1.85	0.60
10:k5:930:LEU:CD1	1:D7:33:THR:HB	2.27	0.60
10:k5:1150:TYR:CD1	11:a9:38:VAL:HG22	2.32	0.60
12:C6:201:CYC:HMD1	12:C6:201:CYC:NC	2.10	0.60
8:I7:2:SER:C	8:I7:100:ASP:CB	2.74	0.60
8:i7:20:PRO:N	8:s7:101:VAL:HG21	2.17	0.60
8:U7:93:THR:O	8:U7:97:VAL:HG22	2.02	0.60
8:c7:23:LEU:CD1	1:d7:42:ALA:HB2	2.31	0.60
8:m7:35:ARG:NE	8:m7:145:ASP:OD1	2.33	0.60
1:v7:136:VAL:CG1	11:aA:342:ARG:NH1	2.61	0.60
2:X8:13:ASP:OD1	4:M8:229:GLY:C	2.42	0.60
12:G8:201:CYC:HMA2	12:G8:201:CYC:HB	1.67	0.60
3:J8:108:ARG:HH21	11:a9:171:ARG:HB3	1.65	0.60
4:M8:210:ILE:HD13	5:Z8:25:THR:O	2.00	0.60
3:Q8:102:ALA:HB2	3:Q8:166:LYS:HZ3	1.59	0.60
4:M9:51:ARG:NH2	11:a9:430:ARG:NE	2.49	0.60
3:H9:84:ARG:O	11:a9:478:HIS:CE1	2.54	0.60
3:H9:113:LEU:HD13	12:H9:202:CYC:C2B	2.31	0.60
11:a9:112:GLU:O	11:a9:113:ALA:C	2.44	0.60
11:aA:85:ALA:O	11:aA:86:ASP:HB2	2.01	0.60
11:aA:91:THR:HG22	11:aA:91:THR:O	2.01	0.60
11:aA:98:ILE:HG22	11:aA:99:ALA:O	2.01	0.60
11:aA:763:PHE:CE1	11:aA:769:PRO:HA	2.36	0.60
11:aA:803:ASN:C	3:J1:119:ALA:O	2.44	0.60
4:M1:53:LEU:HD12	4:M1:53:LEU:O	2.01	0.60
12:Y1:201:CYC:HMD1	12:Y1:201:CYC:NC	2.09	0.60
2:IA:24:LEU:HB3	12:JA:201:CYC:HAB2	1.82	0.60
5:NA:66:ARG:NH1	5:NA:66:ARG:HB2	2.16	0.60
4:M3:259:ARG:NH2	4:M3:259:ARG:HG3	2.17	0.60
4:M3:260:ARG:HG3	4:M3:260:ARG:HH11	1.66	0.60
5:N3:50:LEU:HD12	5:N3:50:LEU:O	2.02	0.60
4:M4:94:TRP:CG	3:Q4:88:ILE:HG12	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:O4:201:CYC:OB	5:Z4:54:LEU:HD12	2.02	0.60
3:Q4:85:ASP:CG	3:Q4:88:ILE:HD12	2.26	0.60
3:Y4:89:ILE:CB	3:Y4:92:TYR:HE2	2.08	0.60
5:Z4:31:TRP:HB3	5:Z4:32:PRO:CD	2.25	0.60
8:U5:75:GLU:OE1	6:M6:43:TRP:CE2	2.50	0.60
1:Z5:161:SER:HB2	10:k5:695:GLY:C	2.25	0.60
9:i5:11:ILE:HD12	9:i5:28:PHE:CE2	2.27	0.60
10:j5:879:ASP:OD1	10:j5:879:ASP:N	2.29	0.60
10:j5:974:LEU:HD23	1:v7:1:MET:H2	1.65	0.60
10:j5:1118:THR:HG23	12:j5:1202:CYC:CBA	2.31	0.60
8:Q7:13:ALA:CA	9:z7:46:LYS:HD3	2.32	0.60
8:C7:93:THR:O	8:C7:97:VAL:HG22	2.02	0.60
8:G7:51:VAL:HG11	11:a9:579:PHE:HE1	1.66	0.60
8:U7:2:SER:C	8:U7:100:ASP:CB	2.74	0.60
8:U7:35:ARG:NE	8:U7:145:ASP:OD1	2.33	0.60
8:W7:101:VAL:O	8:W7:102:THR:C	2.45	0.60
12:A8:201:CYC:HMA2	12:A8:201:CYC:HB	1.67	0.60
8:m7:17:TYR:CZ	1:n7:90:ARG:HA	2.37	0.60
8:m7:35:ARG:NH2	8:m7:144:ASP:CB	2.61	0.60
9:w7:5:PHE:CD2	9:w7:37:TRP:CD1	2.90	0.60
4:M8:205:ASP:CG	5:Z8:59:ARG:NE	2.56	0.60
12:R8:201:CYC:HMA2	12:R8:201:CYC:HB	1.67	0.60
12:C9:201:CYC:HMA2	12:C9:201:CYC:HB	1.67	0.60
3:F9:36:LYS:C	3:F9:156:LEU:HD21	2.24	0.60
2:I9:24:LEU:HB3	12:J9:201:CYC:HAB2	1.82	0.60
11:a9:95:ILE:HG22	11:a9:95:ILE:O	2.01	0.60
11:aA:578:MET:CE	11:aA:582:MET:HE1	2.30	0.60
5:N1:37:HIS:O	12:T1:301:CYC:CMA	2.50	0.60
12:C2:201:CYC:HB	12:C2:201:CYC:HMA2	1.67	0.60
1:A:127:VAL:HG13	1:R5:15:GLN:OE1	2.01	0.60
1:Z:76:ARG:NH1	10:j5:262:TYR:CZ	2.69	0.60
12:AA:201:CYC:HMA2	12:AA:201:CYC:HB	1.67	0.60
3:LA:51:ILE:CG2	3:LA:90:LEU:HD12	2.24	0.60
5:NA:3:VAL:O	5:NA:4:LEU:C	2.44	0.60
3:J3:80:ALA:HB3	11:a9:670:LEU:HD21	1.82	0.60
12:E3:201:CYC:HMA2	12:E3:201:CYC:HB	1.67	0.60
2:C4:15:GLN:HG2	11:aA:102:GLN:HE21	1.66	0.60
12:K4:201:CYC:HB	12:K4:201:CYC:HMA2	1.66	0.60
4:M4:260:ARG:HG3	4:M4:260:ARG:HH11	1.66	0.60
8:M5:54:ALA:HA	8:M5:132:ALA:HB1	1.84	0.60
8:O5:93:THR:O	8:O5:97:VAL:HG22	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z4:1:MET:CB	5:Z4:3:VAL:CG2	2.76	0.60
5:Z4:22:LEU:CD1	12:Z4:301:CYC:C4B	2.56	0.60
1:D5:87:TYR:HE2	9:z5:38:PHE:HE2	1.48	0.60
12:H5:201:CYC:CBB	9:i5:21:ARG:HA	2.25	0.60
8:c5:101:VAL:O	8:c5:102:THR:C	2.45	0.60
10:j5:147:ARG:HA	10:j5:147:ARG:HE	1.67	0.60
10:j5:298:ARG:HG2	10:j5:298:ARG:NH1	2.14	0.60
10:j5:449:ARG:HH21	10:j5:449:ARG:CG	2.10	0.60
10:j5:849:LYS:HG2	10:j5:849:LYS:O	2.00	0.60
10:j5:989:THR:HG21	8:g7:106:GLU:OE2	1.97	0.60
10:j5:1150:TYR:CE1	11:aA:38:VAL:HG13	2.37	0.60
10:k5:1106:PHE:O	10:k5:1110:ILE:CD1	2.49	0.60
12:G6:201:CYC:HMA2	12:G6:201:CYC:HB	1.66	0.60
8:O7:35:ARG:NH2	8:O7:144:ASP:CB	2.61	0.60
8:C7:35:ARG:NH2	8:C7:144:ASP:CB	2.61	0.60
8:c7:9:VAL:HG22	1:d7:107:ARG:HH12	1.66	0.60
8:e7:101:VAL:O	8:e7:102:THR:C	2.45	0.60
3:H8:84:ARG:CG	11:a9:131:TYR:CE1	2.83	0.60
3:L8:130:ALA:CB	12:a9:901:CYC:HBC2	2.32	0.60
2:N8:115:GLU:N	5:Z8:32:PRO:HB2	2.16	0.60
3:O8:107:ASP:O	5:Z8:67:ILE:N	2.31	0.60
12:P8:201:CYC:HMA2	12:P8:201:CYC:HB	1.67	0.60
3:Q8:89:ILE:HG12	3:Q8:92:TYR:CE2	2.36	0.60
4:M9:153:LYS:HD3	2:U9:14:SER:HB2	1.83	0.60
4:M9:274:VAL:N	3:V9:77:ARG:CG	2.40	0.60
2:O9:2:LYS:HE2	2:Y9:22:THR:CB	2.31	0.60
12:W9:201:CYC:HMD1	12:W9:201:CYC:NC	2.10	0.60
11:aA:89:ALA:CA	11:aA:92:LYS:NZ	2.64	0.60
11:aA:638:ALA:O	11:aA:639:GLN:NE2	2.34	0.60
4:M1:92:GLU:HG3	4:M1:92:GLU:O	1.99	0.60
4:M1:189:ASP:CG	3:Z1:84:ARG:HH11	2.09	0.60
1:A:27:LEU:HD13	8:a5:37:LEU:HD21	1.83	0.60
2:AA:49:ASP:O	2:AA:52:VAL:N	2.33	0.60
3:DA:112:GLY:CA	4:MA:76:ALA:HB1	2.31	0.60
12:SA:201:CYC:HB	12:SA:201:CYC:HMA2	1.67	0.60
2:O1:33:ARG:CZ	2:Y1:28:ASN:CG	2.74	0.60
12:A1:201:CYC:HMA2	12:A1:201:CYC:HB	1.67	0.60
3:H3:125:ARG:CZ	8:k7:45:GLU:OE1	2.49	0.60
3:J3:77:ARG:CG	2:K3:111:ALA:CB	2.68	0.60
2:K2:22:THR:CB	2:A2:2:LYS:HE2	2.31	0.60
2:A4:33:ARG:CZ	2:K4:28:ASN:CG	2.74	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M3:53:LEU:HD12	4:M3:53:LEU:O	2.01	0.60
4:M3:61:ASN:C	4:M3:63:GLY:H	2.08	0.60
4:M3:232:VAL:HG21	3:V3:113:LEU:CA	2.32	0.60
3:F4:110:LEU:O	3:F4:112:GLY:N	2.35	0.60
3:H4:108:ARG:CZ	11:aA:97:ALA:HB2	2.32	0.60
4:M4:232:VAL:HG22	4:M4:235:PHE:CE2	2.31	0.60
8:M5:90:ARG:CZ	1:N5:16:GLY:HA2	2.32	0.60
8:A5:126:VAL:HG22	12:A5:201:CYC:HBC3	1.83	0.60
8:E5:107:ILE:HG22	8:E5:107:ILE:O	2.01	0.60
8:G5:126:VAL:HG22	12:G5:201:CYC:HBC3	1.82	0.60
8:c5:54:ALA:HA	8:c5:132:ALA:HB1	1.84	0.60
8:e5:93:THR:O	8:e5:97:VAL:HG22	2.02	0.60
1:R5:65:LEU:CD1	10:k5:706:PRO:CG	2.67	0.60
8:U5:93:THR:O	8:U5:97:VAL:HG22	2.02	0.60
12:K6:201:CYC:HMA2	12:K6:201:CYC:HB	1.66	0.60
10:j5:353:ASN:HB3	10:j5:382:ILE:HD12	1.84	0.60
10:j5:844:GLN:O	10:j5:844:GLN:HG3	2.00	0.60
10:k5:966:SER:OG	1:p7:14:VAL:CG1	2.50	0.60
10:k5:1052:PRO:CB	11:a9:32:ARG:NH2	2.62	0.60
8:O7:6:LYS:HZ2	8:E7:21:GLY:HA3	1.65	0.60
8:I7:93:THR:O	8:I7:97:VAL:HG22	2.02	0.60
8:g7:25:ARG:NE	8:u7:25:ARG:CZ	2.64	0.60
8:Y7:104:ILE:CG2	8:Y7:156:LEU:HD21	2.32	0.60
8:a7:35:ARG:NE	8:a7:145:ASP:OD1	2.33	0.60
8:u7:5:THR:N	1:v7:3:ASP:OD2	2.35	0.60
9:y7:32:VAL:O	9:y7:32:VAL:HG13	2.01	0.60
3:H8:14:LEU:HD11	11:a9:86:ASP:H	1.65	0.60
4:M8:144:ARG:HD3	4:M8:204:ILE:CG2	2.31	0.60
4:M8:235:PHE:CD2	12:M8:301:CYC:C3A	2.84	0.60
3:L9:83:LEU:HD11	2:G9:119:THR:HG21	1.83	0.60
5:N9:66:ARG:NH1	5:N9:66:ARG:HB2	2.16	0.60
5:N9:66:ARG:NH1	3:T9:111:ASN:OD1	2.30	0.60
11:a9:85:ALA:O	11:a9:86:ASP:HB2	2.02	0.60
11:aA:54:ARG:HD2	11:aA:610:ALA:CB	2.32	0.60
11:aA:95:ILE:HG22	11:aA:95:ILE:O	2.01	0.60
4:MA:92:GLU:O	4:MA:92:GLU:HG3	1.99	0.60
4:MA:251:ASN:H	4:MA:251:ASN:ND2	1.95	0.60
2:QA:120:PHE:CE2	3:TA:83:LEU:HD11	2.37	0.60
3:L2:75:PRO:CD	3:L2:78:ARG:CB	2.71	0.60
12:C3:201:CYC:HB	12:C3:201:CYC:HMA2	1.67	0.60
3:D3:68:ARG:HH12	3:X3:68:ARG:NH2	1.97	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B4:86:MET:N	12:B4:202:CYC:CAC	2.64	0.60
5:N3:14:LYS:CE	5:N3:50:LEU:CD2	2.80	0.60
5:N3:50:LEU:HD21	12:R3:201:CYC:O1D	2.01	0.60
4:M4:205:ASP:OD2	5:Z4:59:ARG:CG	2.50	0.60
2:N4:44:LEU:CD1	2:N4:142:LEU:HD11	2.32	0.60
1:L5:68:PRO:CB	1:H5:14:VAL:O	2.50	0.60
8:M5:101:VAL:O	8:M5:102:THR:C	2.45	0.60
8:O5:2:SER:C	8:O5:100:ASP:CB	2.74	0.60
5:Z4:50:LEU:HD12	5:Z4:50:LEU:O	2.02	0.60
8:G5:101:VAL:O	8:G5:102:THR:C	2.45	0.60
12:C1:201:CYC:HB	12:C1:201:CYC:HMA2	1.67	0.60
8:S5:59:PHE:HB3	8:E7:68:PRO:HB2	1.84	0.60
8:a5:35:ARG:NH2	8:a5:144:ASP:CB	2.61	0.60
1:b5:5:ILE:HD11	10:k5:46:PHE:CE1	2.36	0.60
10:j5:1119:LEU:CD1	1:t7:87:TYR:OH	2.49	0.60
10:k5:372:ARG:NH2	10:k5:376:GLN:HE21	1.99	0.60
2:A6:44:LEU:CD1	2:A6:142:LEU:HD11	2.32	0.60
12:A6:201:CYC:HMA2	12:A6:201:CYC:HB	1.67	0.60
12:I6:201:CYC:HMA2	12:I6:201:CYC:HB	1.67	0.60
8:C7:17:TYR:CZ	1:D7:90:ARG:HA	2.36	0.60
8:I7:17:TYR:CZ	1:J7:90:ARG:HA	2.36	0.60
8:a7:10:ASN:ND2	8:o7:10:ASN:HD22	1.98	0.60
8:a7:33:GLY:C	1:b7:31:PHE:CE2	2.79	0.60
8:c7:20:PRO:CD	8:m7:155:TYR:CD1	2.84	0.60
2:E8:15:GLN:HG3	11:a9:163:ASP:CG	2.27	0.60
8:m7:2:SER:C	8:m7:100:ASP:CB	2.74	0.60
8:o7:5:THR:N	1:p7:3:ASP:OD2	2.35	0.60
1:p7:68:PRO:O	11:a9:42:ARG:CZ	2.50	0.60
8:s7:2:SER:C	8:s7:100:ASP:CB	2.74	0.60
8:s7:29:PHE:CZ	8:s7:98:ALA:C	2.76	0.60
8:u7:17:TYR:CE2	1:v7:93:THR:HG21	2.35	0.60
5:Z8:22:LEU:HD21	5:Z8:26:LEU:CD1	2.15	0.60
5:Z8:50:LEU:HD12	5:Z8:50:LEU:O	2.02	0.60
11:a9:638:ALA:O	11:a9:639:GLN:NE2	2.34	0.60
11:aA:594:ARG:HH11	11:aA:594:ARG:CG	2.10	0.60
3:H1:81:ALA:HB1	12:H1:201:CYC:C4D	2.31	0.60
5:N1:66:ARG:NH1	5:N1:66:ARG:HB2	2.16	0.60
1:Z:16:GLY:C	8:e5:90:ARG:CZ	2.75	0.60
2:AA:44:LEU:CD1	2:AA:142:LEU:HD11	2.32	0.60
4:MA:274:VAL:CG2	3:VA:77:ARG:HB2	2.07	0.60
12:Q1:201:CYC:HMA2	12:Q1:201:CYC:HB	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M2:32:MET:HA	8:O5:79:ALA:CB	2.31	0.60
12:B3:202:CYC:HBA2	11:a9:684:ASN:N	2.17	0.60
3:B4:92:TYR:OH	12:B4:202:CYC:CAB	2.49	0.60
5:N3:61:LYS:HD3	3:R3:108:ARG:O	2.02	0.60
5:Z4:14:LYS:CE	5:Z4:50:LEU:CD2	2.80	0.60
5:Z4:38:GLU:O	5:Z4:39:PRO:C	2.43	0.60
5:Z4:42:SER:CA	12:Z4:301:CYC:HMA3	2.26	0.60
1:B5:14:VAL:O	1:F5:68:PRO:CB	2.50	0.60
1:B5:76:ARG:HD2	9:z5:14:LEU:CB	2.27	0.60
8:e5:2:SER:C	8:e5:100:ASP:CB	2.74	0.60
8:A7:104:ILE:CG2	8:A7:156:LEU:HD21	2.32	0.60
10:j5:275:THR:HG21	10:j5:286:VAL:CA	2.32	0.60
10:j5:878:GLU:HG3	9:w7:28:PHE:CD2	2.37	0.60
10:k5:275:THR:HG21	10:k5:286:VAL:CA	2.31	0.60
10:k5:804:GLU:OE1	9:z7:30:LYS:CE	2.50	0.60
8:S7:104:ILE:CG2	8:S7:156:LEU:HD21	2.32	0.60
1:J7:67:ARG:O	1:J7:68:PRO:O	2.20	0.60
8:a7:6:LYS:HZ2	8:o7:16:ARG:NH2	2.00	0.60
3:B8:119:ALA:HB3	4:M8:52:LEU:CD1	2.32	0.60
9:z7:5:PHE:CD2	9:z7:37:TRP:CD1	2.90	0.60
9:w7:21:ARG:O	9:w7:22:GLU:C	2.40	0.60
9:x7:23:LEU:HD12	9:x7:23:LEU:C	2.25	0.60
9:x7:32:VAL:O	9:x7:32:VAL:HG13	2.01	0.60
2:X8:28:ASN:CG	2:N8:33:ARG:CZ	2.74	0.60
12:H8:201:CYC:HBA1	11:a9:261:SER:HB2	1.84	0.60
4:M8:100:SER:HA	4:M8:103:GLN:CB	2.32	0.60
2:N8:44:LEU:CD1	2:N8:142:LEU:HD11	2.32	0.60
3:Q8:113:LEU:C	3:Q8:115:GLU:H	2.10	0.60
4:M9:260:ARG:HG3	4:M9:260:ARG:HH11	1.66	0.60
3:Y8:117:TYR:HB2	3:Y8:124:THR:HG22	1.84	0.60
2:K9:17:ARG:HB3	2:K9:17:ARG:CZ	2.32	0.60
12:S9:201:CYC:HMA2	12:S9:201:CYC:HB	1.67	0.60
12:Y9:201:CYC:HB	12:Y9:201:CYC:HMA2	1.66	0.60
11:a9:716:ILE:CD1	11:a9:738:LEU:CD2	2.80	0.60
11:aA:50:LEU:O	11:aA:53:VAL:CA	2.49	0.60
11:aA:312:ASP:CB	11:aA:315:LEU:HD13	2.19	0.60
11:aA:325:LEU:O	11:aA:329:ASN:OD1	2.19	0.60
12:I1:201:CYC:HMA2	12:I1:201:CYC:HB	1.67	0.60
2:A2:44:LEU:CD1	2:A2:142:LEU:HD11	2.32	0.60
12:DA:201:CYC:CBB	4:MA:6:THR:CG2	2.80	0.60
4:MA:260:ARG:HG3	4:MA:260:ARG:HH11	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:P1:201:CYC:HBA2	4:M1:134:ASN:N	2.17	0.60
3:R1:108:ARG:O	5:N1:61:LYS:HD3	2.02	0.60
2:A1:2:LYS:HE2	2:K1:22:THR:CB	2.31	0.60
4:M3:118:TYR:CD2	3:X3:84:ARG:CZ	2.84	0.60
2:O3:44:LEU:CD1	2:O3:142:LEU:HD11	2.32	0.60
3:L4:71:GLY:HA3	11:aA:82:GLN:HG2	1.74	0.60
4:M4:86:ALA:HB1	3:Y4:77:ARG:NH1	2.17	0.60
3:Q4:97:LEU:CA	3:Q4:163:TYR:CE2	2.82	0.60
8:M5:14:GLU:HG2	10:k5:538:PHE:CE2	2.36	0.60
3:Y4:89:ILE:HG12	3:Y4:92:TYR:CE2	2.37	0.60
9:z5:6:LYS:HB3	9:z5:55:LYS:HB2	0.64	0.60
9:z5:23:LEU:N	9:z5:25:ASN:H	1.97	0.60
10:j5:1064:LYS:HA	10:j5:1069:ARG:N	2.15	0.60
10:k5:190:LEU:HD22	10:k5:194:CYS:SG	2.41	0.60
10:k5:905:THR:HG22	10:k5:906:ARG:HG2	1.84	0.60
10:k5:1016:LEU:CB	10:k5:1044:ASN:ND2	2.62	0.60
10:k5:1124:TYR:CZ	1:n7:119:LEU:HD21	2.37	0.60
12:B7:201:CYC:HB	12:B7:201:CYC:CMA	1.99	0.60
8:G7:104:ILE:CG2	8:G7:156:LEU:HD21	2.32	0.60
8:Y7:54:ALA:HA	8:Y7:132:ALA:HB1	1.84	0.60
8:Y7:118:SER:HB2	1:d7:82:ILE:CD1	2.31	0.60
8:a7:63:PRO:CG	11:a9:334:LYS:HA	2.32	0.60
2:E1:114:ARG:NH1	11:aA:671:GLU:CD	2.60	0.60
12:E8:201:CYC:HB	12:E8:201:CYC:HMA2	1.67	0.60
8:o7:27:LYS:CE	1:p7:35:ALA:CA	2.80	0.60
8:q7:120:GLN:CG	1:v7:53:LYS:HZ1	2.13	0.60
8:u7:27:LYS:CD	1:v7:35:ALA:HB2	2.28	0.60
8:u7:101:VAL:O	8:u7:102:THR:C	2.45	0.60
4:M9:232:VAL:CG1	3:X9:111:ASN:C	2.71	0.60
5:N9:50:LEU:HD12	5:N9:50:LEU:O	2.02	0.60
5:Z8:14:LYS:CE	5:Z8:50:LEU:CD2	2.80	0.60
3:B9:27:LEU:HD23	3:B9:30:LEU:HD22	1.84	0.60
2:I9:1:MET:HE1	2:I9:108:TYR:CE1	2.36	0.60
12:Y9:201:CYC:HMD1	12:Y9:201:CYC:NC	2.09	0.60
11:a9:353:ALA:O	11:a9:356:ALA:HB2	2.02	0.60
11:a9:371:VAL:HG11	11:a9:507:PHE:HD2	1.61	0.60
11:aA:707:PHE:CD2	3:L1:108:ARG:NH1	2.68	0.60
4:M1:260:ARG:HG3	4:M1:260:ARG:HH11	1.66	0.60
3:LA:84:ARG:CZ	11:aA:406:LEU:HD23	2.31	0.59
4:MA:274:VAL:OXT	3:VA:77:ARG:CZ	2.50	0.59
2:QA:116:VAL:HG13	3:TA:79:MET:HG2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:44:LEU:CD1	2:A1:142:LEU:HD11	2.32	0.59
2:K3:15:GLN:C	11:a9:745:GLY:HA3	2.23	0.59
3:B4:82:CYS:HB2	12:B4:202:CYC:C1C	2.27	0.59
2:E4:15:GLN:HG3	11:aA:163:ASP:CG	2.26	0.59
4:M4:225:LYS:CE	3:Y4:81:ALA:CB	2.69	0.59
8:O5:36:ARG:HD3	8:O5:96:ILE:O	2.02	0.59
1:f5:9:ILE:CG2	10:j5:17:PHE:CZ	2.85	0.59
1:R5:83:ARG:HD3	10:k5:516:THR:HG22	1.84	0.59
8:Y5:101:VAL:O	8:Y5:102:THR:C	2.45	0.59
2:K6:22:THR:CB	2:A6:2:LYS:HE2	2.31	0.59
10:j5:750:ARG:NH2	10:j5:884:TRP:O	2.35	0.59
10:j5:888:THR:HG21	1:J7:83:ARG:NH1	2.17	0.59
10:k5:588:VAL:O	10:k5:588:VAL:HG13	2.00	0.59
3:B6:77:ARG:HH11	3:B6:77:ARG:HG2	1.67	0.59
3:F6:120:LEU:HD11	12:F6:201:CYC:HAA1	1.84	0.59
8:O7:93:THR:O	8:O7:97:VAL:HG22	2.02	0.59
8:M7:104:ILE:CG2	8:M7:156:LEU:HD21	2.32	0.59
8:c7:126:VAL:HG22	12:c7:201:CYC:HMC1	1.82	0.59
8:o7:37:LEU:HD22	1:p7:24:LEU:CD1	2.32	0.59
8:o7:101:VAL:O	8:o7:102:THR:C	2.45	0.59
3:Q8:80:ALA:CB	5:Z8:33:GLY:HA3	2.32	0.59
3:L9:37:ARG:HD3	3:L9:98:LEU:HA	1.84	0.59
4:M9:53:LEU:HD12	4:M9:53:LEU:O	2.01	0.59
12:Q9:201:CYC:HB	12:Q9:201:CYC:HMA2	1.66	0.59
12:G9:201:CYC:HMA2	12:G9:201:CYC:HB	1.67	0.59
12:H9:202:CYC:OB	11:a9:448:ASN:HB2	2.02	0.59
12:K9:201:CYC:HMA2	12:K9:201:CYC:HB	1.66	0.59
12:G1:201:CYC:HB	12:G1:201:CYC:HMA2	1.67	0.59
11:a9:30:MET:CE	11:a9:35:ARG:HD3	2.32	0.59
11:a9:50:LEU:O	11:a9:53:VAL:CA	2.49	0.59
11:a9:716:ILE:HD11	11:a9:738:LEU:HD23	1.83	0.59
11:aA:425:VAL:HG23	11:aA:502:ASN:HA	1.83	0.59
11:aA:710:THR:O	3:L1:107:ASP:O	2.19	0.59
12:CA:201:CYC:HB	12:CA:201:CYC:HMA2	1.67	0.59
3:DA:112:GLY:N	4:MA:76:ALA:CB	2.52	0.59
12:KA:201:CYC:HB	12:KA:201:CYC:HMA2	1.66	0.59
2:K2:28:ASN:CG	2:A2:33:ARG:CZ	2.74	0.59
12:A3:201:CYC:HMA2	12:A3:201:CYC:HB	1.67	0.59
4:M3:134:ASN:HD21	5:N3:1:MET:H1	1.50	0.59
5:N3:22:LEU:HD21	5:N3:26:LEU:CG	2.29	0.59
2:O3:33:ARG:CZ	2:Y3:28:ASN:CG	2.74	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Y3:201:CYC:HMA2	12:Y3:201:CYC:HB	1.67	0.59
4:M4:268:ARG:CZ	3:Y4:111:ASN:HB3	2.32	0.59
1:L5:79:ALA:HB2	8:G5:114:GLU:HB2	1.83	0.59
8:O5:76:LYS:CD	8:O5:77:MET:HE1	2.14	0.59
8:C5:93:THR:O	8:C5:97:VAL:HG22	2.02	0.59
8:S5:104:ILE:CG2	8:S5:156:LEU:HD21	2.32	0.59
8:U5:75:GLU:CG	6:M6:32:MET:CE	2.81	0.59
8:W5:101:VAL:O	8:W5:102:THR:C	2.45	0.59
10:j5:743:VAL:CA	12:J7:201:CYC:O2D	2.48	0.59
10:j5:1118:THR:O	10:j5:1118:THR:HG22	2.02	0.59
10:k5:298:ARG:CG	10:k5:298:ARG:HH11	2.15	0.59
10:k5:722:ILE:HD11	8:E7:82:LEU:HD12	1.84	0.59
10:k5:1146:THR:HG23	10:k5:1146:THR:O	2.02	0.59
1:D7:67:ARG:O	1:D7:68:PRO:O	2.20	0.59
8:g7:93:THR:O	8:g7:97:VAL:HG22	2.02	0.59
8:a7:63:PRO:CG	11:a9:333:GLN:O	2.50	0.59
9:x7:21:ARG:HD3	9:x7:21:ARG:C	2.27	0.59
4:M8:251:ASN:HD22	4:M8:251:ASN:N	1.92	0.59
12:M8:302:CYC:CMC	3:S8:72:ASN:HD21	1.69	0.59
12:M8:302:CYC:HBC1	3:S8:81:ALA:HB3	1.84	0.59
4:M9:65:ARG:CD	3:F9:111:ASN:HD21	2.12	0.59
4:M9:159:CYS:O	3:V9:107:ASP:O	2.19	0.59
11:a9:334:LYS:O	11:a9:334:LYS:HG3	2.00	0.59
11:a9:425:VAL:HG23	11:a9:502:ASN:HA	1.83	0.59
11:aA:89:ALA:O	11:aA:92:LYS:N	2.34	0.59
11:aA:95:ILE:HD13	11:aA:237:PHE:CE1	2.34	0.59
3:B2:77:ARG:HH11	3:B2:77:ARG:HG2	1.67	0.59
12:Z:201:CYC:HBB2	10:j5:256:LEU:HD11	1.83	0.59
12:CA:201:CYC:HMD1	12:CA:201:CYC:NC	2.10	0.59
3:DA:112:GLY:HA3	4:MA:4:LEU:HD12	1.85	0.59
2:KA:17:ARG:HB3	2:KA:17:ARG:CZ	2.32	0.59
3:LA:120:LEU:HD22	11:aA:538:ARG:CB	2.27	0.59
4:MA:259:ARG:NH2	4:MA:259:ARG:HG3	2.17	0.59
2:OA:44:LEU:CD1	2:OA:142:LEU:HD11	2.32	0.59
12:QA:201:CYC:HBA1	3:TA:67:ILE:HG22	1.84	0.59
3:R1:111:ASN:ND2	5:N1:66:ARG:HH12	1.94	0.59
12:R1:201:CYC:HBA2	5:N1:53:LEU:HB3	1.83	0.59
2:K3:28:ASN:CG	2:A3:33:ARG:CZ	2.74	0.59
3:F3:119:ALA:CB	4:M3:41:ASN:ND2	2.62	0.59
2:A4:2:LYS:HE2	2:K4:22:THR:CB	2.31	0.59
3:B4:108:ARG:HA	4:M4:61:ASN:CB	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M3:164:ARG:NH1	4:M3:259:ARG:O	2.33	0.59
3:B1:88:ILE:HD13	12:B1:202:CYC:C1B	2.31	0.59
12:L4:202:CYC:HBB3	11:aA:245:ALA:N	2.16	0.59
12:M4:301:CYC:C4B	3:Y4:88:ILE:CD1	2.79	0.59
8:C5:2:SER:CB	1:D5:3:ASP:OD2	2.49	0.59
8:I5:36:ARG:HD3	8:I5:96:ILE:O	2.02	0.59
8:e5:36:ARG:HD3	8:e5:96:ILE:O	2.02	0.59
1:f5:5:ILE:HD13	10:j5:46:PHE:CZ	2.36	0.59
8:S5:54:ALA:HA	8:S5:132:ALA:HB1	1.84	0.59
1:X5:143:PRO:HB2	8:a5:38:ARG:CZ	2.32	0.59
9:i5:56:LEU:H	9:i5:56:LEU:CD1	2.15	0.59
10:j5:619:GLU:CB	10:j5:620:PRO:HD2	2.32	0.59
10:k5:1067:LEU:HD12	10:k5:1101:GLU:OE1	2.02	0.59
10:k5:1078:SER:HA	12:k5:1203:CYC:CBA	2.32	0.59
10:k5:1147:TYR:HD1	10:k5:1147:TYR:O	1.85	0.59
8:O7:17:TYR:CZ	1:P7:90:ARG:HA	2.36	0.59
8:S7:54:ALA:HA	8:S7:132:ALA:HB1	1.84	0.59
8:C7:36:ARG:HD3	8:C7:96:ILE:O	2.02	0.59
8:I7:101:VAL:CG2	8:W7:20:PRO:HG2	2.32	0.59
1:J7:75:THR:HB	8:K7:111:GLY:C	2.28	0.59
1:b7:75:THR:HB	8:c7:112:VAL:CA	2.32	0.59
8:e7:54:ALA:HA	8:e7:132:ALA:HB1	1.84	0.59
12:C8:201:CYC:HMA2	12:C8:201:CYC:HB	1.67	0.59
8:o7:5:THR:HG1	1:p7:3:ASP:CG	2.03	0.59
9:y7:21:ARG:HD3	9:y7:21:ARG:C	2.27	0.59
12:H8:201:CYC:HBA2	11:a9:261:SER:OG	2.01	0.59
4:M8:141:GLU:OE1	4:M8:144:ARG:CB	2.43	0.59
4:M8:162:ASN:O	4:M8:166:THR:CG2	2.51	0.59
4:M9:251:ASN:HD22	4:M9:251:ASN:N	1.92	0.59
5:N9:14:LYS:CE	5:N9:50:LEU:CD2	2.80	0.59
2:A9:49:ASP:O	2:A9:52:VAL:N	2.33	0.59
11:aA:558:VAL:HG12	11:aA:558:VAL:O	2.01	0.59
11:aA:640:ALA:CB	11:aA:767:THR:HG23	2.26	0.59
1:A:110:ASN:ND2	10:k5:462:TYR:HE2	1.90	0.59
3:BA:84:ARG:CZ	4:MA:35:THR:HB	2.33	0.59
12:HA:202:CYC:OB	11:aA:448:ASN:HB2	2.02	0.59
5:NA:14:LYS:CE	5:NA:50:LEU:CD2	2.80	0.59
2:O1:44:LEU:CD1	2:O1:142:LEU:HD11	2.32	0.59
4:M3:196:TYR:HB3	2:Y3:14:SER:O	2.03	0.59
5:N3:1:MET:CB	5:N3:3:VAL:CG2	2.76	0.59
12:U3:201:CYC:HMA2	12:U3:201:CYC:HB	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:104:ALA:HB3	2:P4:13:ASP:C	2.25	0.59
4:M4:214:GLY:HA2	5:Z4:28:HIS:NE2	2.17	0.59
4:M4:215:GLU:H	5:Z4:28:HIS:C	2.10	0.59
4:M4:232:VAL:O	4:M4:235:PHE:HD2	1.69	0.59
2:N4:2:LYS:HE2	2:X4:22:THR:CB	2.31	0.59
8:K5:112:VAL:CB	1:J5:75:THR:HG21	2.30	0.59
7:N6:1:MET:HE2	7:N6:1:MET:N	2.18	0.59
9:i5:5:PHE:HA	9:i5:55:LYS:O	2.01	0.59
9:i5:16:ARG:O	9:i5:16:ARG:NE	2.26	0.59
10:j5:1001:TYR:OH	10:j5:1018:LEU:HG	2.01	0.59
10:j5:1008:PHE:CZ	12:v7:201:CYC:NB	2.71	0.59
10:j5:1008:PHE:HD1	12:v7:201:CYC:HBB3	1.59	0.59
10:k5:284:PRO:CD	10:k5:326:GLY:C	2.61	0.59
10:k5:750:ARG:NH2	10:k5:884:TRP:O	2.35	0.59
8:S7:101:VAL:O	8:S7:102:THR:C	2.45	0.59
8:I7:36:ARG:HD3	8:I7:96:ILE:O	2.03	0.59
8:U7:36:ARG:HD3	8:U7:96:ILE:O	2.03	0.59
8:c7:131:ARG:HH11	8:c7:131:ARG:CB	2.15	0.59
2:A8:44:LEU:CD1	2:A8:142:LEU:HD11	2.32	0.59
8:s7:17:TYR:CZ	1:t7:90:ARG:HA	2.36	0.59
9:y7:6:LYS:HG2	9:y7:6:LYS:O	2.01	0.59
4:M8:94:TRP:CG	3:Q8:88:ILE:HG12	2.38	0.59
12:F1:201:CYC:HBA1	4:M1:36:TYR:H	1.67	0.59
3:L9:84:ARG:NE	11:a9:406:LEU:HD23	2.17	0.59
4:M9:274:VAL:HG13	3:V9:77:ARG:CG	2.22	0.59
3:Y8:89:ILE:CB	3:Y8:92:TYR:HE2	2.08	0.59
5:Z8:3:VAL:O	5:Z8:4:LEU:C	2.44	0.59
12:A9:201:CYC:HB	12:A9:201:CYC:HMA2	1.67	0.59
11:a9:91:THR:HG22	11:a9:91:THR:O	2.01	0.59
11:a9:275:THR:O	11:a9:278:LEU:HD13	2.02	0.59
11:a9:325:LEU:O	11:a9:329:ASN:OD1	2.19	0.59
11:a9:819:SER:O	11:a9:819:SER:OG	2.15	0.59
11:aA:426:ARG:HE	11:aA:496:ARG:HD3	1.68	0.59
11:aA:627:GLN:N	11:aA:627:GLN:OE1	2.35	0.59
11:aA:716:ILE:CD1	11:aA:738:LEU:CD2	2.80	0.59
11:aA:808:LEU:HD23	3:L1:111:ASN:HD21	1.67	0.59
4:M1:116:ASN:ND2	12:X1:201:CYC:OB	2.29	0.59
4:M1:232:VAL:HG21	3:V1:113:LEU:CA	2.32	0.59
4:M1:259:ARG:HG3	4:M1:259:ARG:NH2	2.17	0.59
12:WA:201:CYC:HB	12:WA:201:CYC:HMA2	1.67	0.59
6:M2:238:LEU:CD1	6:M2:258:VAL:HG11	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N3:62:ARG:CZ	2:Q3:14:SER:CB	2.79	0.59
12:G4:201:CYC:HB	12:G4:201:CYC:HMA2	1.67	0.59
12:N4:201:CYC:HB	12:N4:201:CYC:HMA2	1.67	0.59
1:N5:107:ARG:CZ	10:k5:482:GLN:CD	2.76	0.59
5:Z4:41:GLN:HB3	12:Z4:301:CYC:C4B	2.32	0.59
8:S5:90:ARG:CZ	1:T5:16:GLY:HA2	2.32	0.59
1:V5:161:SER:HB3	10:j5:11:VAL:HG21	1.83	0.59
7:N6:49:LEU:HG	12:N6:101:CYC:HB	1.65	0.59
10:j5:284:PRO:CD	10:j5:326:GLY:C	2.61	0.59
10:j5:357:LEU:CD2	10:j5:401:LEU:HD13	2.33	0.59
10:j5:924:ASP:CG	1:J7:26:LYS:HZ3	2.08	0.59
10:j5:1069:ARG:HH11	10:j5:1069:ARG:CG	2.15	0.59
1:D7:75:THR:HB	8:E7:111:GLY:C	2.28	0.59
8:g7:36:ARG:HD3	8:g7:96:ILE:O	2.03	0.59
1:j7:82:ILE:CD1	8:e7:118:SER:HB2	2.32	0.59
8:k7:104:ILE:CG2	8:k7:156:LEU:HD21	2.32	0.59
8:W7:104:ILE:CG2	8:W7:156:LEU:HD21	2.32	0.59
8:a7:36:ARG:HD3	8:a7:96:ILE:O	2.03	0.59
8:u7:37:LEU:HD22	1:v7:24:LEU:CD1	2.32	0.59
9:x7:30:LYS:HG3	9:x7:30:LYS:O	2.03	0.59
9:y7:21:ARG:HD3	9:y7:21:ARG:O	2.03	0.59
4:M8:268:ARG:NH1	3:Y8:112:GLY:H	2.01	0.59
2:N8:49:ASP:O	2:N8:52:VAL:N	2.33	0.59
3:L9:111:ASN:C	11:a9:532:ALA:HB3	2.28	0.59
4:M9:274:VAL:CG2	3:V9:77:ARG:CG	2.80	0.59
3:H9:78:ARG:HD3	12:H9:202:CYC:CBD	2.31	0.59
3:H9:120:LEU:HD13	12:H9:202:CYC:HAA2	1.82	0.59
11:a9:426:ARG:CZ	11:a9:496:ARG:HD3	2.33	0.59
4:M1:164:ARG:NH1	4:M1:259:ARG:O	2.33	0.59
12:W1:201:CYC:HB	12:W1:201:CYC:HMA2	1.67	0.59
3:FA:68:ARG:NH2	3:ZA:68:ARG:CZ	2.66	0.59
5:NA:50:LEU:HD12	5:NA:50:LEU:O	2.02	0.59
12:OA:201:CYC:HB	12:OA:201:CYC:HMA2	1.67	0.59
12:UA:201:CYC:HMA2	12:UA:201:CYC:HB	1.67	0.59
3:P1:112:GLY:HA3	5:N1:4:LEU:O	2.02	0.59
2:A4:44:LEU:CD1	2:A4:142:LEU:HD11	2.32	0.59
12:V4:201:CYC:HB	12:V4:201:CYC:HMA2	1.67	0.59
2:K4:13:ASP:O	11:aA:242:GLY:HA2	2.02	0.59
4:M4:227:GLN:C	3:Y4:88:ILE:HG22	2.21	0.59
4:M4:259:ARG:NH2	4:M4:259:ARG:HG3	2.17	0.59
1:L5:46:SER:HB3	8:U5:154:ASP:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A5:53:GLN:HE21	8:A5:57:GLN:HE21	1.49	0.59
1:H5:76:ARG:HD2	9:i5:14:LEU:C	2.26	0.59
8:Q5:101:VAL:O	8:Q5:102:THR:C	2.45	0.59
8:Q5:104:ILE:CG2	8:Q5:156:LEU:HD21	2.33	0.59
8:S5:101:VAL:O	8:S5:102:THR:C	2.45	0.59
8:U5:35:ARG:NH2	8:U5:144:ASP:CB	2.61	0.59
1:Z5:107:ARG:HD2	10:k5:351:PHE:O	2.02	0.59
8:a5:29:PHE:CZ	8:a5:98:ALA:C	2.76	0.59
10:j5:905:THR:HG22	10:j5:906:ARG:HG2	1.84	0.59
10:j5:971:VAL:CG1	1:t7:76:ARG:CZ	2.79	0.59
10:k5:147:ARG:HA	10:k5:147:ARG:HE	1.67	0.59
10:k5:221:LYS:HB3	10:k5:221:LYS:NZ	2.14	0.59
10:k5:277:ILE:C	10:k5:284:PRO:HA	2.27	0.59
10:k5:911:LEU:O	10:k5:913:VAL:N	2.36	0.59
10:k5:929:PRO:HB3	1:D7:147:LYS:HG2	1.83	0.59
10:k5:1034:GLU:CD	10:k5:1037:ARG:HH21	2.10	0.59
12:E6:201:CYC:HMA2	12:E6:201:CYC:HB	1.67	0.59
8:Y7:101:VAL:O	8:Y7:102:THR:C	2.45	0.59
8:a7:51:VAL:HB	11:a9:318:TRP:CZ3	2.38	0.59
12:b7:201:CYC:CBB	9:x7:21:ARG:CD	2.64	0.59
8:c7:12:ASP:HA	1:d7:90:ARG:HH12	1.67	0.59
2:A8:33:ARG:CZ	2:K8:28:ASN:CG	2.74	0.59
8:s7:36:ARG:HD3	8:s7:96:ILE:O	2.02	0.59
8:u7:58:LEU:HD12	8:u7:58:LEU:C	2.25	0.59
8:u7:104:ILE:CG2	8:u7:156:LEU:HD21	2.32	0.59
12:V8:201:CYC:HMA2	12:V8:201:CYC:HB	1.67	0.59
2:X8:16:GLY:O	3:Y8:91:ARG:NH1	2.35	0.59
4:M8:53:LEU:HD12	4:M8:53:LEU:O	2.01	0.59
4:M8:225:LYS:CD	3:Y8:81:ALA:HB2	2.33	0.59
12:M8:302:CYC:CMD	3:S8:77:ARG:CZ	2.77	0.59
3:Q8:77:ARG:CA	5:Z8:34:LEU:CB	2.65	0.59
3:L9:113:LEU:HD12	3:L9:113:LEU:O	2.03	0.59
4:M9:6:THR:CG2	12:D9:201:CYC:CBB	2.80	0.59
4:M9:274:VAL:CG1	2:W9:111:ALA:CB	2.68	0.59
2:A9:44:LEU:CD1	2:A9:142:LEU:HD11	2.32	0.59
3:H9:117:TYR:CE1	12:H9:202:CYC:NA	2.70	0.59
12:W9:201:CYC:HMA2	12:W9:201:CYC:HB	1.67	0.59
11:a9:54:ARG:HD2	11:a9:610:ALA:CB	2.32	0.59
11:a9:376:ALA:HB2	11:a9:504:VAL:O	2.03	0.59
11:a9:495:TYR:C	11:a9:495:TYR:CD1	2.80	0.59
11:aA:776:TYR:N	12:H1:201:CYC:HBA2	2.13	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U1:43:ALA:O	2:U1:47:ASN:CG	2.46	0.59
12:K2:201:CYC:HB	12:K2:201:CYC:HMA2	1.66	0.59
12:W3:201:CYC:HMA2	12:W3:201:CYC:HB	1.67	0.59
3:F4:112:GLY:HA2	4:M4:76:ALA:HB1	1.83	0.59
12:R4:201:CYC:HB	12:R4:201:CYC:HMA2	1.67	0.59
8:K5:112:VAL:HG22	8:K5:112:VAL:O	2.03	0.59
8:A5:101:VAL:O	8:A5:102:THR:C	2.45	0.59
1:B5:76:ARG:HG3	9:z5:14:LEU:O	2.03	0.59
1:J5:38:VAL:O	1:J5:39:ARG:C	2.37	0.59
6:M6:127:SER:O	12:F6:201:CYC:HBA2	2.01	0.59
8:A7:54:ALA:HA	8:A7:132:ALA:HB1	1.84	0.59
10:j5:232:ARG:HB2	10:j5:232:ARG:NH1	2.18	0.59
10:k5:141:GLU:H	10:k5:141:GLU:CD	2.08	0.59
10:k5:412:THR:O	10:k5:412:THR:OG1	2.19	0.59
10:k5:1069:ARG:HH11	10:k5:1069:ARG:CG	2.15	0.59
8:E7:104:ILE:CG2	8:E7:156:LEU:HD21	2.33	0.59
8:G7:54:ALA:HA	8:G7:132:ALA:HB1	1.84	0.59
8:i7:101:VAL:O	8:i7:102:THR:C	2.45	0.59
8:i7:131:ARG:HH11	8:i7:131:ARG:CB	2.15	0.59
1:V7:75:THR:HB	8:W7:111:GLY:C	2.27	0.59
8:m7:36:ARG:HD3	8:m7:96:ILE:O	2.02	0.59
8:m7:93:THR:O	8:m7:97:VAL:HG22	2.02	0.59
8:s7:93:THR:O	8:s7:97:VAL:HG22	2.02	0.59
8:u7:157:VAL:O	8:u7:161:GLN:HG3	2.03	0.59
9:y7:4:TYR:CB	9:y7:58:THR:OG1	2.40	0.59
12:X8:201:CYC:HMA2	12:X8:201:CYC:HB	1.66	0.59
4:M8:128:ALA:CA	4:M8:142:PHE:CE1	2.83	0.59
4:M8:232:VAL:HG22	4:M8:235:PHE:CE2	2.31	0.59
4:M8:259:ARG:HG3	4:M8:259:ARG:NH2	2.17	0.59
12:L9:202:CYC:CMA	11:a9:534:SER:CB	2.81	0.59
4:M9:274:VAL:HG22	3:V9:77:ARG:CG	2.32	0.59
5:N9:57:MET:HE1	3:T9:116:THR:OG1	2.03	0.59
2:A9:33:ARG:CZ	2:K9:28:ASN:CG	2.74	0.59
11:aA:30:MET:CE	11:aA:35:ARG:HD3	2.32	0.59
11:aA:308:LEU:HD23	11:aA:308:LEU:C	2.26	0.59
11:aA:495:TYR:CD1	11:aA:495:TYR:C	2.80	0.59
12:A2:201:CYC:HMA2	12:A2:201:CYC:HB	1.67	0.59
1:A:18:TYR:OH	8:a5:89:LEU:HB3	2.02	0.59
1:Z:31:PHE:CE2	8:e5:37:LEU:HD11	2.38	0.59
3:FA:111:ASN:HD21	4:MA:65:ARG:CD	2.12	0.59
3:LA:14:LEU:CD1	11:aA:358:PRO:HB2	2.25	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:120:LEU:O	4:MA:123:GLU:CB	2.51	0.59
12:YA:201:CYC:HMA2	12:YA:201:CYC:HB	1.66	0.59
3:H2:10:VAL:CG1	6:M2:69:ALA:HB1	2.29	0.59
4:M3:130:SER:O	12:P3:201:CYC:CBA	2.49	0.59
3:B1:85:ASP:OD2	12:B1:202:CYC:NA	2.36	0.59
2:E4:1:MET:N	4:M4:10:ARG:CZ	2.59	0.59
12:E4:201:CYC:HMA2	12:E4:201:CYC:HB	1.67	0.59
12:H4:201:CYC:HBA1	11:aA:261:SER:HB2	1.84	0.59
4:M4:164:ARG:NH1	4:M4:259:ARG:O	2.33	0.59
2:N4:115:GLU:OE1	5:Z4:33:GLY:CA	2.49	0.59
8:c5:104:ILE:CG2	8:c5:156:LEU:HD21	2.32	0.59
12:R5:201:CYC:CBB	10:k5:520:ARG:CZ	2.80	0.59
1:T5:87:TYR:CZ	10:j5:483:PHE:HE2	2.21	0.59
12:X5:201:CYC:CBB	10:j5:520:ARG:NE	2.62	0.59
9:z5:8:THR:O	9:z5:52:LEU:N	2.35	0.59
10:j5:77:VAL:CG2	10:j5:141:GLU:HB3	2.32	0.59
10:j5:362:LYS:CD	10:j5:363:HIS:HD2	1.83	0.59
10:j5:724:GLU:HA	10:j5:727:THR:HG23	1.85	0.59
8:G7:101:VAL:O	8:G7:102:THR:C	2.45	0.59
8:c7:17:TYR:CB	1:d7:45:SER:HB3	2.31	0.59
8:c7:50:ILE:CD1	8:c7:137:ALA:CB	2.80	0.59
8:o7:72:ALA:HB2	12:o7:201:CYC:OC	2.03	0.59
8:s7:35:ARG:NH2	8:s7:144:ASP:CB	2.61	0.59
3:U8:115:GLU:CD	4:M8:74:LEU:CD1	2.75	0.59
4:M8:181:GLN:HG3	4:M8:181:GLN:O	2.03	0.59
4:M9:181:GLN:HG3	4:M9:181:GLN:O	2.03	0.59
5:Z8:1:MET:CB	5:Z8:3:VAL:CG2	2.76	0.59
5:Z8:29:HIS:CD2	5:Z8:36:THR:HG22	2.33	0.59
3:F9:68:ARG:NH2	3:Z9:68:ARG:CZ	2.66	0.59
11:a9:89:ALA:CB	11:a9:92:LYS:HZ2	2.16	0.59
11:a9:283:GLN:CG	11:a9:284:PRO:CD	2.80	0.59
11:a9:578:MET:CE	11:a9:582:MET:HE1	2.30	0.59
11:aA:582:MET:O	11:aA:586:LEU:HD23	2.03	0.59
3:H1:77:ARG:NH2	12:H1:201:CYC:O2D	2.36	0.59
4:M1:251:ASN:HD22	4:M1:251:ASN:N	1.92	0.59
5:N1:14:LYS:CE	5:N1:50:LEU:CD2	2.80	0.59
12:GA:201:CYC:HB	12:GA:201:CYC:HMA2	1.67	0.59
12:IA:201:CYC:HMA2	12:IA:201:CYC:HB	1.67	0.59
3:JA:78:ARG:NH2	11:aA:359:ASP:N	2.50	0.59
4:MA:230:GLN:O	4:MA:230:GLN:HG2	2.03	0.59
5:NA:57:MET:HE1	3:TA:116:THR:OG1	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QA:162:SER:O	2:WA:118:ARG:HD2	2.00	0.59
12:K3:201:CYC:HB	12:K3:201:CYC:HMA2	1.66	0.59
12:I2:201:CYC:HMA2	12:I2:201:CYC:HB	1.67	0.59
12:A4:201:CYC:HMA2	12:A4:201:CYC:HB	1.67	0.59
3:B4:82:CYS:SG	12:B4:202:CYC:C2C	2.89	0.59
3:L3:111:ASN:HD21	11:a9:808:LEU:HD23	1.66	0.59
4:M3:190:ARG:HH11	4:M3:202:SER:HB3	1.63	0.59
12:O3:201:CYC:HB	12:O3:201:CYC:HMA2	1.67	0.59
3:B1:127:VAL:HG22	12:B1:202:CYC:CMC	2.33	0.59
3:F4:113:LEU:HA	4:M4:5:THR:OG1	2.03	0.59
4:M4:217:VAL:HG13	5:Z4:30:PRO:HB3	1.83	0.59
4:M4:230:GLN:HG2	4:M4:230:GLN:O	2.03	0.59
8:C5:36:ARG:HD3	8:C5:96:ILE:O	2.02	0.59
8:G5:61:ILE:HD11	8:o7:68:PRO:HD2	1.82	0.59
1:J5:73:TYR:O	1:J5:77:ARG:NE	2.36	0.59
1:P5:114:GLU:HB3	10:k5:496:GLU:HG3	1.79	0.59
8:W5:126:VAL:HG23	12:W5:201:CYC:CMC	2.33	0.59
6:M6:243:ALA:HA	12:H6:201:CYC:CBB	2.33	0.59
9:z5:23:LEU:C	9:z5:25:ASN:H	2.09	0.59
9:i5:56:LEU:O	9:i5:58:THR:N	2.30	0.59
10:j5:869:GLY:N	9:w7:43:ARG:CZ	2.43	0.59
10:j5:1151:GLN:C	1:v7:122:PRO:CB	2.75	0.59
10:k5:275:THR:HG22	10:k5:286:VAL:O	2.03	0.59
10:k5:353:ASN:HB3	10:k5:382:ILE:HD12	1.84	0.59
8:O7:45:GLU:O	1:r7:113:LYS:NZ	2.33	0.59
8:Q7:101:VAL:O	8:Q7:102:THR:C	2.45	0.59
8:Q7:104:ILE:CG2	8:Q7:156:LEU:HD21	2.32	0.59
8:K7:101:VAL:O	8:K7:102:THR:C	2.45	0.59
8:g7:10:ASN:ND2	8:u7:10:ASN:HD22	1.99	0.59
8:a7:93:THR:O	8:a7:97:VAL:HG22	2.02	0.59
8:c7:18:LEU:HD22	1:d7:97:LEU:HD13	1.84	0.59
8:q7:54:ALA:HA	8:q7:132:ALA:HB1	1.84	0.59
4:M8:98:ASP:O	3:Q8:1:MET:HE1	2.03	0.59
2:N8:111:ALA:CB	5:Z8:35:ASP:OD2	2.51	0.59
3:Y8:113:LEU:HD13	3:Y8:171:ILE:HG13	1.84	0.59
2:I9:37:SER:HA	2:I9:97:LEU:CD2	2.27	0.59
12:I9:201:CYC:HB	12:I9:201:CYC:HMA2	1.67	0.59
2:S9:42:ARG:NH1	3:T9:21:GLU:CD	2.59	0.59
11:a9:388:VAL:HG12	11:a9:392:ILE:HD12	1.84	0.59
11:a9:818:ARG:HH11	11:a9:818:ARG:CG	2.10	0.59
12:Y1:201:CYC:HMA2	12:Y1:201:CYC:HB	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:144:ARG:NH2	5:NA:52:ARG:NH2	2.51	0.59
3:H3:78:ARG:NH1	11:a9:623:ASP:HB2	2.17	0.59
3:J3:119:ALA:O	11:a9:803:ASN:C	2.45	0.59
3:B3:127:VAL:CG2	12:B3:202:CYC:CMC	2.81	0.59
4:M3:230:GLN:HG2	4:M3:230:GLN:O	2.03	0.59
3:H4:1:MET:N	11:aA:96:THR:CG2	2.66	0.59
3:H4:80:ALA:C	3:H4:84:ARG:NH1	2.61	0.59
4:M4:93:LEU:HB3	4:M4:216:ASN:OD1	2.03	0.59
4:M4:129:GLU:HG3	4:M4:142:PHE:CE2	2.38	0.59
1:L5:106:GLU:CG	9:i5:58:THR:CG2	2.81	0.59
12:X4:201:CYC:HMA2	12:X4:201:CYC:HB	1.66	0.59
8:E5:112:VAL:HG22	8:E5:112:VAL:O	2.03	0.59
8:G5:63:PRO:HG2	8:U5:68:PRO:HB2	1.84	0.59
1:d5:127:VAL:HG12	10:j5:698:GLY:HA3	1.82	0.59
9:z5:56:LEU:C	9:z5:58:THR:H	2.11	0.59
10:j5:750:ARG:HH11	10:j5:750:ARG:HG2	1.67	0.59
10:j5:939:GLN:O	10:j5:943:THR:CG2	2.50	0.59
10:j5:1034:GLU:CD	10:j5:1037:ARG:HH21	2.10	0.59
10:j5:1043:GLU:HB2	8:e7:14:GLU:OE2	2.03	0.59
10:k5:986:PRO:HD3	9:x7:24:GLN:NE2	2.18	0.59
10:k5:1025:LEU:HD22	10:k5:1035:PHE:CB	2.15	0.59
1:P7:75:THR:HB	8:Q7:111:GLY:C	2.27	0.59
8:I7:35:ARG:NE	8:I7:145:ASP:OD1	2.33	0.59
8:c7:96:ILE:CA	8:c7:152:TYR:CD2	2.84	0.59
8:c7:101:VAL:O	8:c7:102:THR:C	2.45	0.59
3:B8:82:CYS:CA	12:B8:202:CYC:C2C	2.76	0.59
8:q7:101:VAL:O	8:q7:102:THR:C	2.45	0.59
8:q7:104:ILE:CG2	8:q7:156:LEU:HD21	2.33	0.59
9:z7:19:THR:O	9:z7:19:THR:HG23	2.01	0.59
9:y7:30:LYS:O	9:y7:30:LYS:HG3	2.03	0.59
4:M8:26:SER:CB	11:a9:228:GLU:CD	2.76	0.59
4:M8:164:ARG:NH1	4:M8:259:ARG:O	2.33	0.59
12:M8:301:CYC:OC	3:Y8:72:ASN:CB	2.51	0.59
3:L9:120:LEU:CD2	11:a9:538:ARG:CB	2.81	0.59
4:M9:35:THR:HB	3:B9:84:ARG:NH1	2.18	0.59
5:N9:1:MET:C	5:N9:3:VAL:N	2.50	0.59
2:O9:44:LEU:CD1	2:O9:142:LEU:HD11	2.32	0.59
2:Y9:62:LYS:HG2	2:Y9:129:GLU:HG2	1.85	0.59
11:a9:112:GLU:O	11:a9:115:VAL:N	2.36	0.59
4:M1:120:LEU:O	4:M1:123:GLU:CB	2.51	0.59
5:N1:50:LEU:HD12	5:N1:50:LEU:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:NA:57:MET:SD	12:TA:301:CYC:HMA3	2.43	0.58
5:NA:62:ARG:HE	2:SA:14:SER:HA	1.66	0.58
2:Q1:62:LYS:HG2	2:Q1:129:GLU:HG2	1.85	0.58
12:G3:201:CYC:HB	12:G3:201:CYC:HMA2	1.67	0.58
2:I2:62:LYS:HG2	2:I2:129:GLU:HG2	1.85	0.58
12:B3:202:CYC:CMA	11:a9:684:ASN:ND2	2.66	0.58
2:E3:62:LYS:HG2	2:E3:129:GLU:HG2	1.85	0.58
3:B4:120:LEU:HD13	4:M4:53:LEU:CB	2.00	0.58
3:L3:1:MET:HE2	3:L3:108:ARG:HH12	1.67	0.58
4:M3:251:ASN:HD22	4:M3:251:ASN:N	1.92	0.58
5:N3:37:HIS:O	12:T3:301:CYC:CMA	2.50	0.58
2:Q3:62:LYS:HG2	2:Q3:129:GLU:HG2	1.85	0.58
2:U3:62:LYS:HG2	2:U3:129:GLU:HG2	1.85	0.58
3:U4:120:LEU:CG	4:M4:254:LEU:CD2	2.71	0.58
4:M4:231:THR:C	12:M4:301:CYC:HBB3	2.27	0.58
8:M5:104:ILE:CG2	8:M5:156:LEU:HD21	2.32	0.58
8:O5:35:ARG:NE	8:O5:145:ASP:OD1	2.33	0.58
1:B5:2:GLN:NE2	10:k5:551:MET:HG2	2.17	0.58
1:D5:73:TYR:O	1:D5:77:ARG:NE	2.36	0.58
8:G5:104:ILE:CG2	8:G5:156:LEU:HD21	2.32	0.58
8:I5:93:THR:O	8:I5:97:VAL:HG22	2.02	0.58
1:b5:9:ILE:HG22	10:k5:17:PHE:CZ	2.37	0.58
6:M6:238:LEU:CD1	6:M6:258:VAL:HG11	2.33	0.58
12:N6:101:CYC:H3C	3:B6:127:VAL:HG22	1.85	0.58
8:A7:101:VAL:O	8:A7:102:THR:C	2.45	0.58
9:i5:8:THR:O	9:i5:52:LEU:N	2.36	0.58
9:i5:56:LEU:C	9:i5:58:THR:H	2.11	0.58
10:j5:362:LYS:HD2	10:j5:363:HIS:CD2	2.34	0.58
10:j5:1119:LEU:HD11	12:j5:1202:CYC:HBB3	1.84	0.58
10:j5:1146:THR:O	10:j5:1146:THR:HG23	2.02	0.58
10:k5:159:ASP:OD2	12:k5:1201:CYC:NC	2.36	0.58
10:k5:964:GLY:HA3	1:n7:69:GLY:HA3	1.85	0.58
10:k5:971:VAL:O	10:k5:971:VAL:HG13	2.02	0.58
8:k7:54:ALA:HA	8:k7:132:ALA:HB1	1.84	0.58
8:o7:104:ILE:CG2	8:o7:156:LEU:HD21	2.32	0.58
8:o7:157:VAL:O	8:o7:161:GLN:HG3	2.03	0.58
8:u7:17:TYR:CE2	1:v7:93:THR:CG2	2.86	0.58
2:K8:13:ASP:O	11:a9:242:GLY:HA2	2.03	0.58
4:M9:120:LEU:O	4:M9:123:GLU:CB	2.51	0.58
4:M9:134:ASN:CG	5:N9:1:MET:H1	2.10	0.58
4:M9:162:ASN:O	4:M9:166:THR:CG2	2.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:230:GLN:HG2	4:M9:230:GLN:O	2.03	0.58
4:M9:259:ARG:HG3	4:M9:259:ARG:NH2	2.17	0.58
5:Z8:29:HIS:CG	5:Z8:31:TRP:HD1	2.21	0.58
2:S9:62:LYS:HG2	2:S9:129:GLU:HG2	1.85	0.58
11:aA:376:ALA:HB2	11:aA:504:VAL:O	2.03	0.58
11:aA:624:GLY:O	11:aA:628:THR:HG23	1.92	0.58
4:M1:162:ASN:O	4:M1:166:THR:CG2	2.50	0.58
1:A:83:ARG:HD3	10:k5:259:PRO:HD3	1.85	0.58
1:Z:73:TYR:CZ	10:j5:162:TRP:HZ2	2.14	0.58
3:HA:84:ARG:HA	11:aA:478:HIS:CE1	2.38	0.58
12:LA:202:CYC:CMA	11:aA:534:SER:CB	2.81	0.58
5:NA:53:LEU:CA	12:TA:301:CYC:HBA2	2.33	0.58
2:YA:62:LYS:HG2	2:YA:129:GLU:HG2	1.85	0.58
3:J3:127:VAL:HG22	12:J3:202:CYC:H3C	1.86	0.58
2:A3:44:LEU:CD1	2:A3:142:LEU:HD11	2.32	0.58
3:B4:85:ASP:N	12:B4:202:CYC:CAC	2.57	0.58
12:C4:201:CYC:HB	12:C4:201:CYC:HMA2	1.67	0.58
3:B1:86:MET:SD	12:B1:202:CYC:HBC1	2.43	0.58
2:K4:62:LYS:HG2	2:K4:129:GLU:HG2	1.86	0.58
8:M5:53:GLN:HB2	8:M5:136:VAL:HG21	1.86	0.58
1:D5:38:VAL:O	1:D5:39:ARG:C	2.37	0.58
6:M6:271:VAL:CG2	1:d7:127:VAL:CG1	2.81	0.58
10:j5:187:ARG:CZ	10:j5:196:ILE:HD13	2.33	0.58
10:j5:1052:PRO:CB	11:aA:32:ARG:NH2	2.64	0.58
10:k5:1144:SER:HB3	1:l7:13:ASP:OD2	2.03	0.58
2:G6:62:LYS:HG2	2:G6:129:GLU:HG2	1.85	0.58
12:G6:201:CYC:HB	12:G6:201:CYC:CMA	2.16	0.58
8:K7:126:VAL:HG23	12:K7:201:CYC:CMC	2.33	0.58
1:h7:53:LYS:HG2	1:h7:53:LYS:O	2.03	0.58
8:k7:52:LYS:HB2	11:a9:52:MET:HE1	1.83	0.58
8:a7:90:ARG:HB2	1:b7:18:TYR:CE1	2.38	0.58
8:c7:122:PRO:O	8:c7:125:ALA:N	2.36	0.58
3:B8:119:ALA:CB	4:M8:52:LEU:CD1	2.72	0.58
8:u7:23:LEU:CD2	1:v7:38:VAL:CB	2.74	0.58
8:u7:23:LEU:HD13	1:v7:38:VAL:HG12	1.84	0.58
8:u7:72:ALA:HB2	12:u7:201:CYC:OC	2.03	0.58
9:x7:21:ARG:HD3	9:x7:21:ARG:O	2.03	0.58
3:H8:108:ARG:CZ	11:a9:97:ALA:HB2	2.33	0.58
4:M8:1:MET:HG3	4:M8:43:TYR:OH	2.04	0.58
3:Q8:84:ARG:HD2	5:Z8:31:TRP:NE1	2.16	0.58
12:J9:202:CYC:HBA1	11:a9:512:TYR:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W9:62:LYS:HG2	2:W9:129:GLU:HG2	1.85	0.58
2:G1:111:ALA:HB2	3:L1:77:ARG:HE	1.69	0.58
11:aA:56:ILE:CD1	11:aA:612:TYR:CZ	2.87	0.58
11:aA:288:ARG:O	11:aA:288:ARG:HG2	2.02	0.58
11:aA:353:ALA:O	11:aA:356:ALA:HB2	2.02	0.58
11:aA:388:VAL:HG12	11:aA:392:ILE:HD12	1.84	0.58
12:U1:201:CYC:HMA2	12:U1:201:CYC:HB	1.67	0.58
2:KA:62:LYS:HG2	2:KA:129:GLU:HG2	1.86	0.58
3:LA:113:LEU:O	3:LA:113:LEU:HD12	2.03	0.58
5:NA:54:LEU:HD21	3:TA:84:ARG:NE	2.14	0.58
12:YA:201:CYC:HB	12:YA:201:CYC:CMA	2.16	0.58
3:R1:111:ASN:ND2	5:N1:66:ARG:HH11	1.96	0.58
2:A1:56:VAL:HG22	2:A1:82:CYS:SG	2.44	0.58
2:G3:62:LYS:HG2	2:G3:129:GLU:HG2	1.85	0.58
3:H2:127:VAL:HG22	12:H2:201:CYC:H3C	1.86	0.58
12:H2:201:CYC:HBB2	6:M2:243:ALA:CA	2.34	0.58
7:N2:1:MET:HE2	7:N2:1:MET:N	2.18	0.58
4:M3:134:ASN:N	12:P3:201:CYC:HBA2	2.17	0.58
12:S3:201:CYC:HB	12:S3:201:CYC:HMA2	1.67	0.58
2:E4:62:LYS:HG2	2:E4:129:GLU:HG2	1.85	0.58
3:H4:84:ARG:HD2	11:aA:131:TYR:CD1	2.34	0.58
3:O4:127:VAL:HG22	12:O4:201:CYC:H3C	1.85	0.58
8:A5:114:GLU:CB	1:F5:79:ALA:HB1	2.34	0.58
8:G5:61:ILE:CG1	8:o7:68:PRO:CD	2.53	0.58
8:G5:121:THR:CG2	12:G5:201:CYC:CHD	2.80	0.58
1:T5:53:LYS:HZ3	8:U5:120:GLN:CG	2.15	0.58
8:W5:104:ILE:CG2	8:W5:156:LEU:HD21	2.33	0.58
10:j5:820:HIS:C	10:j5:820:HIS:CD2	2.80	0.58
10:j5:1067:LEU:HD12	10:j5:1101:GLU:OE1	2.02	0.58
10:k5:1069:ARG:HD3	10:k5:1115:ARG:HH11	1.69	0.58
12:C6:201:CYC:CMA	12:C6:201:CYC:HB	2.17	0.58
8:Q7:126:VAL:HG23	12:Q7:201:CYC:CMC	2.33	0.58
8:I7:6:LYS:HZ3	8:W7:22:GLU:N	2.02	0.58
8:M7:54:ALA:HA	8:M7:132:ALA:HB1	1.84	0.58
8:M7:101:VAL:O	8:M7:102:THR:C	2.45	0.58
8:g7:29:PHE:CZ	8:g7:98:ALA:C	2.76	0.58
8:W7:126:VAL:HG23	12:W7:201:CYC:CMC	2.33	0.58
8:c7:12:ASP:CB	1:d7:94:TYR:CE2	2.85	0.58
3:B8:82:CYS:HA	12:B8:202:CYC:H2C	1.84	0.58
3:B8:82:CYS:O	12:B8:202:CYC:H2C	2.03	0.58
3:W8:127:VAL:HG22	12:W8:201:CYC:H3C	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:I8:201:CYC:HB	12:I8:201:CYC:HMA2	1.67	0.58
4:M8:96:LYS:HE3	3:Q8:89:ILE:CG1	2.33	0.58
4:M8:251:ASN:H	4:M8:251:ASN:ND2	1.95	0.58
2:N8:56:VAL:HG22	2:N8:82:CYS:SG	2.44	0.58
12:O8:201:CYC:CGA	5:Z8:50:LEU:CD1	2.81	0.58
4:M9:35:THR:HB	3:B9:84:ARG:CZ	2.33	0.58
12:Q9:201:CYC:HB	12:Q9:201:CYC:CMA	2.16	0.58
3:B9:14:LEU:HD13	3:X9:125:ARG:HD2	1.85	0.58
3:B9:27:LEU:CA	3:B9:30:LEU:HD13	2.33	0.58
12:E9:201:CYC:HB	12:E9:201:CYC:HMA2	1.67	0.58
12:U9:201:CYC:HB	12:U9:201:CYC:HMA2	1.67	0.58
3:X9:127:VAL:HG22	12:X9:201:CYC:H3C	1.86	0.58
11:a9:93:LEU:HD21	11:a9:252:ARG:HH12	1.65	0.58
11:a9:245:ALA:CB	12:a9:901:CYC:OB	2.50	0.58
11:a9:296:VAL:HG13	11:a9:298:ILE:H	1.68	0.58
11:aA:621:THR:CG2	3:J1:14:LEU:HD11	2.26	0.58
2:I1:62:LYS:HG2	2:I1:129:GLU:HG2	1.86	0.58
4:M1:230:GLN:O	4:M1:230:GLN:HG2	2.03	0.58
12:W1:201:CYC:HB	12:W1:201:CYC:CMA	2.17	0.58
12:E2:201:CYC:HMA2	12:E2:201:CYC:HB	1.67	0.58
1:Z:76:ARG:N	10:j5:261:ILE:HD11	2.19	0.58
1:Z:131:GLN:HG3	1:X5:17:LYS:HZ1	0.76	0.58
12:IA:201:CYC:HB	12:IA:201:CYC:CMA	2.17	0.58
12:JA:202:CYC:HBA1	11:aA:512:TYR:N	2.19	0.58
4:MA:159:CYS:O	3:VA:107:ASP:HB3	2.04	0.58
2:QA:116:VAL:CG2	3:TA:80:ALA:CA	2.81	0.58
3:TA:24:LEU:HB3	2:X4:68:GLN:CG	2.32	0.58
2:O1:56:VAL:HG22	2:O1:82:CYS:SG	2.44	0.58
12:S1:201:CYC:HB	12:S1:201:CYC:HMA2	1.67	0.58
3:D3:127:VAL:HG22	12:D3:202:CYC:H3C	1.86	0.58
12:F3:201:CYC:HBA1	4:M3:36:TYR:H	1.67	0.58
3:D4:14:LEU:CD1	3:Y4:125:ARG:NE	2.57	0.58
3:L3:104:VAL:CG1	3:L3:108:ARG:NH2	2.62	0.58
4:M3:210:ILE:CD1	5:N3:59:ARG:NH1	2.66	0.58
5:N3:4:LEU:O	3:P3:112:GLY:HA3	2.02	0.58
3:V3:127:VAL:HG22	12:V3:201:CYC:H3C	1.86	0.58
12:H4:201:CYC:OB	11:aA:129:ASN:CB	2.51	0.58
4:M4:101:ASP:CA	2:P4:13:ASP:CG	2.75	0.58
4:M4:226:SER:CB	3:Y4:85:ASP:HA	2.33	0.58
8:A5:104:ILE:CG2	8:A5:156:LEU:HD21	2.32	0.58
8:G5:61:ILE:HG23	8:o7:68:PRO:HG2	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G5:122:PRO:HG2	12:G5:201:CYC:CMC	2.27	0.58
8:I5:29:PHE:CZ	8:I5:98:ALA:C	2.76	0.58
8:U5:79:ALA:HB1	6:M6:32:MET:N	2.19	0.58
10:j5:778:LYS:NZ	12:L7:201:CYC:OB	2.36	0.58
10:j5:822:ARG:CD	1:H7:106:GLU:OE2	2.51	0.58
10:j5:1064:LYS:HD2	10:j5:1065:HIS:CG	2.39	0.58
10:j5:1153:VAL:HG21	1:v7:125:ALA:CA	2.32	0.58
10:k5:247:ARG:HG2	10:k5:247:ARG:O	2.04	0.58
10:k5:750:ARG:HH11	10:k5:750:ARG:HG2	1.67	0.58
10:k5:1146:THR:N	1:p7:77:ARG:HH22	2.00	0.58
2:A6:63:PHE:CB	2:A6:66:LEU:CG	2.82	0.58
3:H6:127:VAL:HG22	12:H6:201:CYC:H3C	1.86	0.58
3:D1:68:ARG:HH12	3:X1:68:ARG:CZ	2.17	0.58
8:O7:161:GLN:HG2	1:F7:49:THR:CG2	2.33	0.58
8:Q7:13:ALA:HA	9:z7:46:LYS:HD3	1.85	0.58
1:T7:68:PRO:CB	1:V7:14:VAL:C	2.67	0.58
8:U7:44:THR:HG23	1:V7:18:TYR:CD2	2.39	0.58
8:a7:52:LYS:CD	11:a9:321:ALA:HB2	2.24	0.58
2:C8:15:GLN:HG2	11:a9:102:GLN:HE21	1.68	0.58
1:r7:17:LYS:HZ1	11:aA:41:ASP:CG	1.96	0.58
2:K8:62:LYS:HG2	2:K8:129:GLU:HG2	1.86	0.58
3:L8:69:PRO:O	11:a9:82:GLN:CG	2.50	0.58
2:N8:13:ASP:OD2	3:O8:108:ARG:CZ	2.46	0.58
2:N8:112:GLY:CA	5:Z8:33:GLY:CA	2.77	0.58
4:M9:120:LEU:O	4:M9:123:GLU:HB2	2.04	0.58
12:O9:201:CYC:HMA2	12:O9:201:CYC:HB	1.67	0.58
12:C9:201:CYC:HB	12:C9:201:CYC:CMA	2.17	0.58
3:F9:127:VAL:HG22	12:F9:301:CYC:H3C	1.85	0.58
3:H9:78:ARG:CG	12:H9:202:CYC:HAD1	2.32	0.58
3:H9:120:LEU:CD1	12:H9:202:CYC:C1A	2.78	0.58
11:aA:312:ASP:HB2	11:aA:315:LEU:HB3	0.72	0.58
11:aA:508:ARG:HB2	11:aA:513:GLN:HE22	1.68	0.58
11:aA:623:ASP:HB2	3:H1:78:ARG:NH1	2.18	0.58
12:aA:902:CYC:H3C	3:L1:127:VAL:HG22	1.85	0.58
2:C2:62:LYS:HG2	2:C2:129:GLU:HG2	1.86	0.58
2:E2:62:LYS:HG2	2:E2:129:GLU:HG2	1.86	0.58
3:BA:27:LEU:HD23	3:BA:30:LEU:HD22	1.84	0.58
3:DA:127:VAL:HG22	12:DA:201:CYC:H3C	1.86	0.58
12:HA:202:CYC:OB	11:aA:448:ASN:OD1	2.22	0.58
3:LA:111:ASN:OD1	11:aA:366:LEU:HD12	2.04	0.58
4:MA:196:TYR:H	2:UA:15:GLN:HA	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:OA:56:VAL:HG22	2:OA:82:CYS:SG	2.44	0.58
2:QA:68:GLN:O	2:QA:74:TYR:HB3	2.03	0.58
12:QA:201:CYC:HB	12:QA:201:CYC:CMA	2.16	0.58
2:SA:42:ARG:NH1	3:TA:21:GLU:CD	2.59	0.58
12:SA:201:CYC:HB	12:SA:201:CYC:CMA	2.17	0.58
3:XA:127:VAL:HG22	12:XA:201:CYC:H3C	1.86	0.58
3:P1:127:VAL:HG22	12:P1:201:CYC:H3C	1.86	0.58
12:Q1:201:CYC:HB	12:Q1:201:CYC:CMA	2.17	0.58
2:G2:62:LYS:HG2	2:G2:129:GLU:HG2	1.85	0.58
12:C4:201:CYC:HB	12:C4:201:CYC:CMA	2.17	0.58
3:D4:127:VAL:HG22	12:D4:202:CYC:H3C	1.86	0.58
3:L3:75:PRO:CG	11:a9:823:ILE:CD1	2.81	0.58
4:M3:120:LEU:O	4:M3:123:GLU:CB	2.51	0.58
3:U4:127:VAL:HG22	12:U4:201:CYC:H3C	1.86	0.58
12:G4:201:CYC:HB	12:G4:201:CYC:CMA	2.17	0.58
12:K4:201:CYC:HB	12:K4:201:CYC:CMA	2.16	0.58
3:L4:127:VAL:HG22	12:L4:202:CYC:H3C	1.86	0.58
4:M4:96:LYS:HZ3	4:M4:96:LYS:HB3	1.69	0.58
2:N4:56:VAL:HG22	2:N4:82:CYS:SG	2.44	0.58
8:C5:98:ALA:HA	1:D5:5:ILE:CG2	2.33	0.58
1:Z5:62:TYR:HE1	12:a5:201:CYC:O1D	1.86	0.58
10:j5:156:SER:OG	12:j5:1201:CYC:HHD	2.03	0.58
10:j5:974:LEU:HD21	1:v7:1:MET:H3	1.62	0.58
10:k5:344:ARG:NH1	10:k5:344:ARG:HG2	2.17	0.58
12:A6:201:CYC:HB	12:A6:201:CYC:CMA	2.17	0.58
8:O7:22:GLU:HA	8:O7:25:ARG:HG2	1.85	0.58
8:O7:25:ARG:NH2	8:E7:25:ARG:CD	2.66	0.58
8:c7:96:ILE:HD11	8:c7:152:TYR:HB2	1.85	0.58
8:e7:104:ILE:CG2	8:e7:156:LEU:HD21	2.32	0.58
2:E1:62:LYS:HG2	2:E1:129:GLU:HG2	1.85	0.58
3:B8:120:LEU:HD13	4:M8:53:LEU:HB2	1.76	0.58
12:E8:201:CYC:HB	12:E8:201:CYC:CMA	2.17	0.58
8:m7:44:THR:HG23	1:n7:18:TYR:CD2	2.39	0.58
8:o7:17:TYR:CE2	1:p7:93:THR:CG2	2.86	0.58
12:H8:201:CYC:OB	11:a9:129:ASN:CB	2.51	0.58
12:K8:201:CYC:HB	12:K8:201:CYC:CMA	2.16	0.58
4:M8:120:LEU:O	4:M8:123:GLU:CB	2.51	0.58
12:M8:302:CYC:C2C	3:S8:78:ARG:HG2	2.32	0.58
4:M9:38:PRO:HD3	12:B9:201:CYC:CBB	2.34	0.58
4:M9:76:ALA:HB1	3:D9:112:GLY:CA	2.31	0.58
4:M9:192:GLN:CG	3:V9:84:ARG:HG3	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:274:VAL:CG2	3:V9:77:ARG:HG2	2.33	0.58
3:Y8:87:GLU:HG2	3:Y8:91:ARG:NE	2.18	0.58
5:Z8:37:HIS:CE1	12:Z8:301:CYC:HMA1	2.38	0.58
3:F9:153:CYS:CB	12:F9:303:CYC:C4C	2.81	0.58
11:a9:245:ALA:CB	12:a9:901:CYC:HBB2	2.32	0.58
4:M1:19:MET:HG2	4:M1:59:ILE:HD13	1.86	0.58
4:M1:120:LEU:O	4:M1:123:GLU:HB2	2.04	0.58
3:BA:127:VAL:HG22	12:BA:201:CYC:H3C	1.86	0.58
3:LA:37:ARG:HD3	3:LA:98:LEU:HA	1.84	0.58
3:RA:127:VAL:HG22	12:RA:201:CYC:H3C	1.86	0.58
3:H3:127:VAL:HG22	12:H3:202:CYC:H3C	1.85	0.58
12:I2:201:CYC:HB	12:I2:201:CYC:CMA	2.17	0.58
3:J2:84:ARG:HG3	6:M2:189:HIS:CG	2.39	0.58
3:L2:127:VAL:HG22	12:L2:201:CYC:H3C	1.86	0.58
3:B4:120:LEU:CD2	4:M4:52:LEU:CB	2.69	0.58
3:L3:1:MET:CE	11:a9:708:HIS:ND1	2.67	0.58
2:T4:62:LYS:HG2	2:T4:129:GLU:HG2	1.86	0.58
12:V4:201:CYC:HB	12:V4:201:CYC:CMA	2.17	0.58
3:H4:127:VAL:HG22	12:H4:201:CYC:H3C	1.86	0.58
12:J4:201:CYC:CMA	11:aA:176:ASN:ND2	2.56	0.58
3:L4:68:ARG:HB2	11:aA:82:GLN:CA	2.32	0.58
4:M4:138:SER:CB	12:Z4:301:CYC:CAB	2.82	0.58
2:N4:63:PHE:CB	2:N4:66:LEU:CG	2.82	0.58
5:Z4:28:HIS:HB2	5:Z4:35:ASP:HA	1.84	0.58
8:W5:126:VAL:CG2	12:W5:201:CYC:HMC3	2.34	0.58
8:Y5:104:ILE:CG2	8:Y5:156:LEU:HD21	2.32	0.58
3:J6:127:VAL:HG22	12:J6:202:CYC:H3C	1.86	0.58
3:L6:127:VAL:HG22	12:L6:201:CYC:H3C	1.86	0.58
10:k5:194:CYS:CB	12:k5:1201:CYC:HAC1	2.32	0.58
10:k5:217:GLU:HA	10:k5:217:GLU:OE1	2.02	0.58
10:k5:283:ARG:HD3	10:k5:283:ARG:C	2.27	0.58
10:k5:724:GLU:HA	10:k5:727:THR:HG23	1.85	0.58
1:B7:136:VAL:CA	11:a9:563:PHE:CZ	2.87	0.58
8:i7:96:ILE:CG1	8:i7:152:TYR:CE1	2.82	0.58
8:k7:66:VAL:HG12	11:a9:65:LEU:HD22	1.84	0.58
1:T7:110:ASN:HD21	9:w7:57:PHE:CA	2.15	0.58
8:U7:37:LEU:HD11	1:V7:31:PHE:CE2	2.39	0.58
8:c7:49:ARG:NH2	8:c7:140:LEU:CD2	2.67	0.58
8:q7:79:ALA:CA	11:aA:53:VAL:HG21	2.34	0.58
8:s7:37:LEU:HD11	1:t7:31:PHE:CE2	2.38	0.58
2:A9:63:PHE:CB	2:A9:66:LEU:CG	2.82	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E9:33:ARG:CG	2:I9:25:GLN:HE22	2.16	0.58
3:V1:127:VAL:HG22	12:V1:201:CYC:H3C	1.86	0.58
1:Z:131:GLN:CB	1:X5:17:LYS:HZ3	2.08	0.58
12:EA:201:CYC:HMA2	12:EA:201:CYC:HB	1.67	0.58
12:O1:201:CYC:HBB3	3:R1:74:TYR:HE1	1.65	0.58
12:I3:201:CYC:HB	12:I3:201:CYC:CMA	2.17	0.58
12:I3:201:CYC:HB	12:I3:201:CYC:HMA2	1.67	0.58
3:J2:127:VAL:HG22	12:J2:202:CYC:H3C	1.86	0.58
2:K2:62:LYS:HG2	2:K2:129:GLU:HG2	1.86	0.58
2:E3:114:ARG:NH1	11:a9:671:GLU:CD	2.62	0.58
3:L3:112:GLY:O	11:a9:809:ARG:NH2	2.37	0.58
4:M3:120:LEU:O	4:M3:123:GLU:HB2	2.04	0.58
2:O3:63:PHE:CB	2:O3:66:LEU:CG	2.82	0.58
3:X3:127:VAL:HG22	12:X3:201:CYC:H3C	1.85	0.58
3:S4:72:ASN:HD22	3:S4:123:PRO:HD3	0.66	0.58
3:F4:107:ASP:OD2	4:M4:9:GLN:HA	2.04	0.58
3:F4:112:GLY:HA3	4:M4:4:LEU:HD12	1.86	0.58
12:I4:201:CYC:HMA2	12:I4:201:CYC:HB	1.67	0.58
4:M4:201:ASP:CG	5:Z4:59:ARG:HD2	2.28	0.58
12:R4:201:CYC:HB	12:R4:201:CYC:CMA	2.17	0.58
8:K5:80:LEU:HD12	12:K5:201:CYC:HAD1	1.82	0.58
8:M5:90:ARG:CA	1:N5:18:TYR:CZ	2.87	0.58
8:A5:112:VAL:HA	1:F5:75:THR:CB	2.28	0.58
1:d5:127:VAL:CB	10:j5:698:GLY:CA	2.81	0.58
8:Q5:17:TYR:HD2	1:R5:93:THR:CG2	2.12	0.58
8:Q5:126:VAL:HG23	12:Q5:201:CYC:CMC	2.33	0.58
7:N6:22:GLN:OE1	7:N6:39:TYR:CE2	2.57	0.58
9:z5:56:LEU:H	9:z5:56:LEU:CD1	2.15	0.58
10:j5:252:ASP:OD1	10:j5:252:ASP:N	2.26	0.58
10:j5:390:GLN:HA	10:j5:390:GLN:OE1	2.02	0.58
10:j5:911:LEU:O	10:j5:913:VAL:N	2.33	0.58
10:j5:986:PRO:HD3	9:y7:24:GLN:NE2	2.19	0.58
10:k5:138:PRO:CB	10:k5:201:VAL:CG1	2.52	0.58
10:k5:778:LYS:CE	12:F7:201:CYC:CBB	2.82	0.58
10:k5:978:LEU:HD11	1:p7:107:ARG:CZ	2.33	0.58
1:P7:53:LYS:HZ1	8:Q7:120:GLN:CD	2.11	0.58
8:E7:101:VAL:O	8:E7:102:THR:C	2.45	0.58
8:I7:101:VAL:HG21	8:W7:20:PRO:HG2	1.85	0.58
8:K7:104:ILE:CG2	8:K7:156:LEU:HD21	2.32	0.58
8:i7:96:ILE:HD11	8:i7:152:TYR:HB2	1.86	0.58
8:i7:122:PRO:O	8:i7:125:ALA:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W7:13:ALA:C	9:w7:46:LYS:HZ2	2.10	0.58
12:E1:201:CYC:HMA2	12:E1:201:CYC:HB	1.67	0.58
12:B8:202:CYC:C4D	4:M8:53:LEU:HG	2.34	0.58
12:C8:201:CYC:HB	12:C8:201:CYC:CMA	2.17	0.58
4:M8:235:PHE:CD2	12:M8:301:CYC:C4A	2.87	0.58
3:Q8:92:TYR:HE1	3:Q8:105:LEU:HD13	1.67	0.58
3:Q8:117:TYR:HA	3:Q8:120:LEU:HG	1.86	0.58
4:M9:134:ASN:OD1	3:R9:116:THR:HG23	2.03	0.58
5:N9:62:ARG:HE	2:S9:14:SER:HA	1.66	0.58
2:Q9:62:LYS:HG2	2:Q9:129:GLU:HG2	1.85	0.58
12:A9:201:CYC:HB	12:A9:201:CYC:CMA	2.17	0.58
2:I9:62:LYS:HG2	2:I9:129:GLU:HG2	1.85	0.58
3:T9:127:VAL:HG22	12:T9:301:CYC:H3C	1.85	0.58
3:Z9:127:VAL:HG22	12:Z9:202:CYC:H3C	1.86	0.58
11:a9:95:ILE:HD12	11:a9:237:PHE:CD1	2.38	0.58
11:aA:72:ASP:HB3	11:aA:73:TYR:HA	1.86	0.58
11:aA:426:ARG:CZ	11:aA:496:ARG:HD3	2.33	0.58
3:T1:127:VAL:HG22	12:T1:301:CYC:H3C	1.85	0.58
2:U1:62:LYS:HG2	2:U1:129:GLU:HG2	1.85	0.58
2:W1:62:LYS:HG2	2:W1:129:GLU:HG2	1.86	0.58
2:Y1:62:LYS:HG2	2:Y1:129:GLU:HG2	1.86	0.58
2:A2:56:VAL:HG22	2:A2:82:CYS:SG	2.44	0.58
3:BA:84:ARG:NH1	4:MA:35:THR:HB	2.18	0.58
3:FA:36:LYS:C	3:FA:156:LEU:CD2	2.76	0.58
12:KA:201:CYC:HB	12:KA:201:CYC:CMA	2.17	0.58
4:MA:1:MET:HG3	4:MA:43:TYR:OH	2.04	0.58
4:MA:159:CYS:C	3:VA:108:ARG:CG	2.77	0.58
4:MA:232:VAL:CG1	3:XA:111:ASN:C	2.71	0.58
12:UA:201:CYC:HB	12:UA:201:CYC:CMA	2.17	0.58
2:A1:63:PHE:CB	2:A1:66:LEU:CG	2.82	0.58
2:I3:62:LYS:HG2	2:I3:129:GLU:HG2	1.86	0.58
12:K3:201:CYC:HB	12:K3:201:CYC:CMA	2.17	0.58
12:G2:201:CYC:HB	12:G2:201:CYC:CMA	2.16	0.58
3:R3:127:VAL:HG22	12:R3:201:CYC:H3C	1.85	0.58
12:U3:201:CYC:HB	12:U3:201:CYC:CMA	2.17	0.58
2:Y3:62:LYS:HG2	2:Y3:129:GLU:HG2	1.86	0.58
12:E4:201:CYC:HB	12:E4:201:CYC:CMA	2.17	0.58
4:M4:120:LEU:O	4:M4:123:GLU:CB	2.51	0.58
4:M4:144:ARG:HH12	5:Z4:59:ARG:NH1	2.01	0.58
8:M5:68:PRO:CB	8:e5:59:PHE:CB	2.80	0.58
12:X4:201:CYC:HB	12:X4:201:CYC:CMA	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:E5:29:PHE:HE1	8:E5:99:GLY:HA3	1.68	0.58
8:G5:71:ASN:OD1	12:G5:201:CYC:HMD1	2.00	0.58
1:f5:118:SER:OG	10:j5:491:THR:O	2.22	0.58
8:S5:14:GLU:OE2	10:j5:538:PHE:CE2	2.56	0.58
8:U5:36:ARG:HD3	8:U5:96:ILE:O	2.03	0.58
8:U5:80:LEU:HA	8:U5:83:ARG:CZ	2.34	0.58
2:K6:62:LYS:HG2	2:K6:129:GLU:HG2	1.86	0.58
6:M6:243:ALA:CA	12:H6:201:CYC:HBB2	2.33	0.58
10:j5:217:GLU:OE1	10:j5:217:GLU:HA	2.02	0.58
10:j5:1105:ILE:CD1	10:j5:1115:ARG:HH21	2.12	0.58
10:k5:187:ARG:CZ	10:k5:196:ILE:HD13	2.33	0.58
10:k5:328:ILE:HG12	10:k5:328:ILE:O	2.04	0.58
10:k5:619:GLU:CB	10:k5:620:PRO:HD2	2.32	0.58
10:k5:741:GLN:CG	1:D7:77:ARG:NH2	2.56	0.58
8:K7:25:ARG:CD	8:U7:25:ARG:NH2	2.67	0.58
8:M7:60:GLN:HE22	3:J9:114:LYS:CD	2.15	0.58
8:i7:89:LEU:HD13	8:i7:153:PHE:HZ	1.67	0.58
8:W7:126:VAL:CG2	12:W7:201:CYC:HMC3	2.34	0.58
8:o7:17:TYR:CE2	1:p7:93:THR:HG21	2.35	0.58
3:L8:82:CYS:HB2	12:a9:901:CYC:NC	2.18	0.58
4:M8:15:PHE:CD1	4:M8:71:PRO:HA	2.38	0.58
12:P8:201:CYC:HB	12:P8:201:CYC:CMA	2.17	0.58
4:M9:6:THR:HG21	3:D9:108:ARG:O	1.96	0.58
4:M9:19:MET:HG2	4:M9:59:ILE:HD13	1.86	0.58
4:M9:159:CYS:O	3:V9:107:ASP:HB3	2.04	0.58
2:O9:63:PHE:CB	2:O9:66:LEU:CG	2.82	0.58
3:J9:2:GLN:HG2	3:J9:6:THR:HG22	1.86	0.58
12:Y9:201:CYC:HB	12:Y9:201:CYC:CMA	2.16	0.58
11:a9:288:ARG:HG2	11:a9:288:ARG:O	2.02	0.58
11:aA:112:GLU:O	11:aA:115:VAL:N	2.36	0.58
3:H1:77:ARG:NH1	12:H1:201:CYC:O1D	2.37	0.58
4:M1:103:GLN:HA	4:M1:103:GLN:OE1	2.04	0.58
4:MA:274:VAL:CG2	2:WA:111:ALA:CB	2.77	0.58
2:QA:18:PHE:CE1	3:RA:48:ALA:CB	2.87	0.58
2:QA:62:LYS:HG2	2:QA:129:GLU:HG2	1.85	0.58
2:QA:68:GLN:C	2:U1:46:SER:HB3	2.29	0.58
12:WA:201:CYC:HB	12:WA:201:CYC:CMA	2.17	0.58
3:H2:14:LEU:HD11	6:M2:69:ALA:HB2	1.86	0.58
3:L2:75:PRO:HG2	3:L2:78:ARG:CA	2.34	0.58
12:C3:201:CYC:HB	12:C3:201:CYC:CMA	2.17	0.58
4:M3:19:MET:HG2	4:M3:59:ILE:HD13	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M3:181:GLN:O	4:M3:181:GLN:HG3	2.03	0.58
3:P3:2:GLN:HG2	3:P3:6:THR:HG22	1.86	0.58
3:X3:2:GLN:HG2	3:X3:6:THR:HG22	1.86	0.58
3:F4:127:VAL:HG22	12:F4:202:CYC:H3C	1.86	0.58
2:I4:62:LYS:HG2	2:I4:129:GLU:HG2	1.86	0.58
3:L4:71:GLY:HA2	11:aA:82:GLN:CG	2.29	0.58
12:L4:202:CYC:C4B	11:aA:239:TYR:CE1	2.87	0.58
4:M4:19:MET:HG2	4:M4:59:ILE:HD13	1.86	0.58
3:O4:2:GLN:HG2	3:O4:6:THR:HG22	1.86	0.58
8:K5:20:PRO:CB	8:U5:151:PHE:HB3	2.29	0.58
5:Z4:26:LEU:HD21	5:Z4:63:ASN:HB2	1.77	0.58
12:C1:201:CYC:HB	12:C1:201:CYC:CMA	2.17	0.58
1:d5:83:ARG:CZ	10:j5:379:PHE:HE2	2.14	0.58
1:f5:38:VAL:CG1	10:j5:40:VAL:HG13	2.09	0.58
8:Y5:54:ALA:HA	8:Y5:132:ALA:HB1	1.84	0.58
12:L6:201:CYC:HBB2	6:M6:229:ALA:HB2	1.86	0.58
6:M6:50:LEU:HD23	8:c7:79:ALA:O	1.93	0.58
6:M6:69:ALA:HB2	3:H6:14:LEU:HD11	1.86	0.58
9:i5:6:LYS:CG	9:i5:55:LYS:CB	2.64	0.58
10:k5:241:ALA:N	10:k5:242:PRO:HD3	2.19	0.58
10:k5:878:GLU:HG3	9:z7:28:PHE:CE2	2.39	0.58
10:k5:1052:PRO:CA	1:l7:106:GLU:HG2	2.34	0.58
10:k5:1064:LYS:HD2	10:k5:1065:HIS:CG	2.39	0.58
12:E6:201:CYC:HB	12:E6:201:CYC:CMA	2.17	0.58
3:F6:2:GLN:HG2	3:F6:6:THR:HG22	1.86	0.58
3:D1:127:VAL:HG22	12:D1:202:CYC:H3C	1.85	0.58
8:O7:36:ARG:HD3	8:O7:96:ILE:O	2.02	0.58
8:O7:37:LEU:HD11	1:P7:31:PHE:CE2	2.39	0.58
8:C7:37:LEU:HD11	1:D7:31:PHE:CE2	2.39	0.58
8:C7:44:THR:HG23	1:D7:18:TYR:CD2	2.39	0.58
12:h7:201:CYC:HB	12:h7:201:CYC:HMA2	1.69	0.58
8:i7:126:VAL:CG2	12:i7:201:CYC:HMC1	2.33	0.58
2:A8:56:VAL:HG22	2:A8:82:CYS:SG	2.44	0.58
8:o7:23:LEU:HD13	1:p7:38:VAL:HG12	1.85	0.58
8:o7:29:PHE:HZ	1:p7:31:PHE:HZ	1.52	0.58
8:o7:37:LEU:HD22	1:p7:24:LEU:CB	2.33	0.58
4:M8:140:ARG:O	4:M8:144:ARG:N	2.34	0.58
3:Q8:72:ASN:O	12:Z8:301:CYC:HMD2	2.04	0.58
12:R8:201:CYC:HB	12:R8:201:CYC:CMA	2.17	0.58
12:O9:201:CYC:HB	12:O9:201:CYC:CMA	2.17	0.58
12:K9:201:CYC:HB	12:K9:201:CYC:CMA	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S9:201:CYC:HB	12:S9:201:CYC:CMA	2.17	0.58
11:a9:365:LYS:HZ2	11:a9:365:LYS:CB	2.16	0.58
11:aA:798:SER:C	11:aA:800:THR:HG23	2.28	0.58
11:aA:823:ILE:HD13	3:L1:77:ARG:HD2	1.86	0.58
4:M1:15:PHE:CD1	4:M1:71:PRO:HA	2.38	0.58
2:A2:63:PHE:CB	2:A2:66:LEU:CG	2.82	0.58
2:AA:56:VAL:HG22	2:AA:82:CYS:SG	2.44	0.58
12:AA:201:CYC:HB	12:AA:201:CYC:CMA	2.17	0.58
3:LA:84:ARG:NE	11:aA:406:LEU:HD23	2.18	0.58
4:MA:120:LEU:HD22	2:UA:115:GLU:OE2	2.04	0.58
4:MA:162:ASN:O	4:MA:166:THR:CG2	2.50	0.58
3:PA:127:VAL:HG22	12:PA:201:CYC:H3C	1.85	0.58
3:TA:127:VAL:HG22	12:TA:301:CYC:H3C	1.86	0.58
3:ZA:127:VAL:HG22	12:ZA:202:CYC:H3C	1.86	0.58
12:G2:201:CYC:HBB3	3:L2:74:TYR:CE1	2.39	0.58
7:N2:22:GLN:OE1	7:N2:39:TYR:CE2	2.57	0.58
12:N2:101:CYC:H3C	3:B2:127:VAL:HG22	1.85	0.58
2:C3:62:LYS:HG2	2:C3:129:GLU:HG2	1.86	0.58
2:A4:56:VAL:HG22	2:A4:82:CYS:SG	2.44	0.58
3:D4:116:THR:OG1	4:M4:38:PRO:CA	2.52	0.58
3:L3:1:MET:CG	3:L3:104:VAL:HG12	2.32	0.58
4:M3:251:ASN:H	4:M3:251:ASN:ND2	1.95	0.58
12:O3:201:CYC:HB	12:O3:201:CYC:CMA	2.17	0.58
12:Q3:201:CYC:HB	12:Q3:201:CYC:CMA	2.17	0.58
12:Q3:201:CYC:HB	12:Q3:201:CYC:HMA2	1.67	0.58
3:W4:2:GLN:HG2	3:W4:6:THR:HG22	1.86	0.58
3:J4:127:VAL:HG22	12:J4:201:CYC:H3C	1.85	0.58
3:L4:68:ARG:HB3	3:L4:69:PRO:HD2	1.86	0.58
4:M4:214:GLY:CA	5:Z4:28:HIS:CE1	2.87	0.58
3:Q4:120:LEU:HD11	5:Z4:39:PRO:HA	1.86	0.58
3:Q4:120:LEU:CD1	5:Z4:39:PRO:CA	2.81	0.58
8:C5:90:ARG:HD2	1:D5:17:LYS:O	2.04	0.58
1:T5:107:ARG:NH1	10:j5:482:GLN:OE1	2.37	0.58
8:Y5:53:GLN:HB2	8:Y5:136:VAL:HG21	1.86	0.58
1:b5:30:TYR:CZ	10:k5:47:PHE:CE2	2.92	0.58
9:z5:6:LYS:HZ3	9:z5:29:THR:CG2	2.17	0.58
10:j5:19:THR:HB	10:j5:173:ALA:CB	2.34	0.58
10:j5:1064:LYS:CE	10:j5:1065:HIS:CD2	2.87	0.58
10:j5:1153:VAL:CG2	1:v7:125:ALA:HA	2.34	0.58
10:k5:77:VAL:CG1	10:k5:141:GLU:HG2	2.34	0.58
10:k5:190:LEU:O	10:k5:194:CYS:SG	2.62	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:937:GLU:HG3	10:k5:937:GLU:O	2.00	0.58
10:k5:1064:LYS:CE	10:k5:1065:HIS:CD2	2.87	0.58
12:C6:201:CYC:HB	12:C6:201:CYC:HMA2	1.67	0.58
3:H6:2:GLN:HG2	3:H6:6:THR:HG22	1.86	0.58
8:O7:44:THR:HG23	1:P7:18:TYR:CD2	2.39	0.58
8:Q7:21:GLY:HA3	8:C7:6:LYS:NZ	2.19	0.58
8:Q7:126:VAL:CG2	12:Q7:201:CYC:HMC3	2.34	0.58
8:k7:101:VAL:O	8:k7:102:THR:C	2.45	0.58
8:a7:161:GLN:OE1	1:p7:49:THR:HG22	2.04	0.58
8:e7:106:GLU:OE2	9:y7:68:GLY:C	2.47	0.58
12:A8:201:CYC:HB	12:A8:201:CYC:CMA	2.17	0.58
3:H8:127:VAL:HG22	12:H8:201:CYC:H3C	1.86	0.58
2:I8:112:GLY:H	11:a9:133:LEU:CD2	2.16	0.58
4:M8:100:SER:N	3:Q8:1:MET:HE2	2.17	0.58
3:Q8:89:ILE:CA	3:Q8:92:TYR:CZ	2.78	0.58
4:M9:120:LEU:HD22	2:U9:115:GLU:OE2	2.04	0.58
5:N9:57:MET:SD	12:T9:301:CYC:HMA3	2.43	0.58
2:O9:56:VAL:HG22	2:O9:82:CYS:SG	2.44	0.58
2:A9:56:VAL:HG22	2:A9:82:CYS:SG	2.44	0.58
11:a9:56:ILE:CD1	11:a9:612:TYR:CZ	2.87	0.58
5:N1:3:VAL:O	5:N1:4:LEU:C	2.44	0.58
5:N1:37:HIS:CD2	12:T1:301:CYC:HMA3	2.39	0.58
3:BA:30:LEU:HD12	3:BA:30:LEU:N	2.19	0.57
12:CA:201:CYC:HB	12:CA:201:CYC:CMA	2.17	0.57
3:FA:36:LYS:CB	3:FA:156:LEU:HD11	2.28	0.57
5:NA:13:SER:HB3	5:NA:14:LYS:HD3	1.86	0.57
3:TA:2:GLN:HG2	3:TA:6:THR:HG22	1.86	0.57
3:VA:2:GLN:HG2	3:VA:6:THR:HG22	1.87	0.57
3:J3:2:GLN:HG2	3:J3:6:THR:HG22	1.86	0.57
12:G2:201:CYC:HBB3	3:L2:74:TYR:CZ	2.39	0.57
12:H2:201:CYC:CBB	6:M2:243:ALA:HA	2.33	0.57
7:N2:49:LEU:HD11	3:B2:88:ILE:CD1	2.34	0.57
3:Z3:127:VAL:HG22	12:Z3:201:CYC:H3C	1.86	0.57
2:W3:62:LYS:HG2	2:W3:129:GLU:HG2	1.86	0.57
3:B1:84:ARG:HH22	12:B1:202:CYC:CGA	2.16	0.57
12:B1:202:CYC:HAA1	11:aA:684:ASN:OD1	1.96	0.57
3:F4:2:GLN:HG2	3:F4:6:THR:HG22	1.86	0.57
4:M4:144:ARG:NH1	5:Z4:59:ARG:CZ	2.67	0.57
2:N4:118:ARG:HH12	5:Z4:32:PRO:CG	2.17	0.57
3:Y4:105:LEU:CD1	3:Y4:163:TYR:HB3	2.32	0.57
3:Y4:127:VAL:CG1	3:Y4:171:ILE:HG21	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z4:13:SER:HB3	5:Z4:14:LYS:HD3	1.86	0.57
8:C5:29:PHE:HE2	1:D5:5:ILE:HD11	1.69	0.57
8:e5:35:ARG:NE	8:e5:145:ASP:OD1	2.33	0.57
6:M6:69:ALA:HB1	3:H6:10:VAL:CG1	2.29	0.57
7:N6:49:LEU:HD11	3:B6:88:ILE:CD1	2.34	0.57
9:i5:10:CYS:N	9:i5:50:LYS:O	2.32	0.57
10:j5:77:VAL:CG1	10:j5:141:GLU:HG2	2.34	0.57
10:j5:190:LEU:C	10:j5:194:CYS:SG	2.87	0.57
10:j5:277:ILE:C	10:j5:284:PRO:HA	2.27	0.57
10:j5:971:VAL:HG11	1:t7:76:ARG:NH1	1.89	0.57
10:j5:1025:LEU:HD21	10:j5:1035:PHE:HB2	0.58	0.57
10:j5:1150:TYR:CD1	11:aA:38:VAL:HG22	2.37	0.57
10:k5:357:LEU:CD2	10:k5:401:LEU:HD13	2.33	0.57
10:k5:1067:LEU:HD13	10:k5:1101:GLU:HG2	1.78	0.57
1:B7:136:VAL:CA	11:a9:563:PHE:HZ	2.17	0.57
8:g7:63:PRO:CG	11:aA:336:ILE:HG23	2.33	0.57
8:g7:90:ARG:HB2	1:h7:18:TYR:CE1	2.38	0.57
2:A8:63:PHE:CB	2:A8:66:LEU:CG	2.82	0.57
3:F8:2:GLN:HG2	3:F8:6:THR:HG22	1.86	0.57
4:M8:148:LYS:HD2	4:M8:197:ASP:OD1	2.04	0.57
12:M8:302:CYC:CBC	3:S8:81:ALA:HB3	2.34	0.57
3:Q8:78:ARG:NH1	12:Z8:301:CYC:HAD1	2.17	0.57
3:Q8:89:ILE:CB	3:Q8:92:TYR:OH	2.49	0.57
4:M9:20:THR:CG2	4:M9:67:LEU:HD11	2.34	0.57
4:M9:185:ALA:HB2	12:V9:201:CYC:O1A	2.04	0.57
3:B9:2:GLN:HG2	3:B9:6:THR:HG22	1.86	0.57
11:a9:426:ARG:HE	11:a9:496:ARG:HD3	1.68	0.57
11:a9:816:LEU:O	11:a9:816:LEU:HD23	2.04	0.57
12:A2:201:CYC:HB	12:A2:201:CYC:CMA	2.17	0.57
2:GA:62:LYS:HG2	2:GA:129:GLU:HG2	1.85	0.57
12:GA:201:CYC:HB	12:GA:201:CYC:CMA	2.17	0.57
3:HA:84:ARG:CA	11:aA:478:HIS:CE1	2.87	0.57
3:HA:120:LEU:CD1	12:HA:202:CYC:C1A	2.82	0.57
3:JA:127:VAL:HG22	12:JA:202:CYC:H3C	1.85	0.57
12:LA:202:CYC:CGD	11:aA:538:ARG:HB3	2.34	0.57
4:MA:120:LEU:O	4:MA:123:GLU:HB2	2.04	0.57
4:MA:260:ARG:HH11	4:MA:260:ARG:CG	2.18	0.57
3:TA:24:LEU:CD2	2:X4:68:GLN:NE2	2.67	0.57
2:G3:111:ALA:HB2	3:L3:77:ARG:HE	1.69	0.57
2:A3:56:VAL:HG22	2:A3:82:CYS:SG	2.44	0.57
2:A3:63:PHE:CB	2:A3:66:LEU:CG	2.82	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:A3:201:CYC:HB	12:A3:201:CYC:CMA	2.17	0.57
3:F3:127:VAL:HG22	12:F3:201:CYC:H3C	1.86	0.57
3:B4:2:GLN:HG2	3:B4:6:THR:HG22	1.86	0.57
12:B4:202:CYC:C4D	4:M4:53:LEU:HG	2.34	0.57
4:M3:15:PHE:CD1	4:M3:71:PRO:HA	2.38	0.57
4:M3:20:THR:CG2	4:M3:67:LEU:HD11	2.34	0.57
5:N3:3:VAL:O	5:N3:4:LEU:C	2.44	0.57
3:B1:88:ILE:HG22	12:B1:202:CYC:CMB	2.18	0.57
12:T4:201:CYC:HB	12:T4:201:CYC:CMA	2.17	0.57
4:M4:144:ARG:NH2	4:M4:204:ILE:HG22	2.17	0.57
12:P4:201:CYC:HB	12:P4:201:CYC:CMA	2.17	0.57
5:Z4:29:HIS:NE2	5:Z4:37:HIS:C	2.61	0.57
8:A5:94:TYR:OH	1:B5:17:LYS:O	2.20	0.57
1:B5:14:VAL:HG13	10:k5:556:GLY:H	1.69	0.57
1:J5:76:ARG:HH12	9:i5:67:VAL:CB	2.18	0.57
2:C1:62:LYS:HG2	2:C1:129:GLU:HG2	1.86	0.57
1:P5:110:ASN:OD1	10:k5:490:SER:OG	2.21	0.57
8:S5:53:GLN:HB2	8:S5:136:VAL:HG21	1.86	0.57
8:a5:36:ARG:HD3	8:a5:96:ILE:O	2.02	0.57
3:J6:84:ARG:HG3	6:M6:189:HIS:CG	2.39	0.57
8:A7:53:GLN:HB2	8:A7:136:VAL:HG21	1.86	0.57
9:z5:6:LYS:NZ	9:z5:29:THR:CG2	2.67	0.57
10:j5:971:VAL:HG13	10:j5:971:VAL:O	2.02	0.57
10:j5:992:GLU:OE2	10:j5:992:GLU:N	2.37	0.57
10:j5:1109:ASP:OD1	10:j5:1109:ASP:N	2.35	0.57
10:k5:53:ARG:C	10:k5:56:ILE:HG22	2.28	0.57
10:k5:190:LEU:C	10:k5:194:CYS:SG	2.87	0.57
10:k5:1005:LEU:CD1	10:k5:1016:LEU:CD2	2.82	0.57
10:k5:1008:PHE:CE2	1:p7:83:ARG:NH1	2.72	0.57
10:k5:1026:LYS:C	10:k5:1028:ASN:H	2.12	0.57
10:k5:1148:THR:O	10:k5:1148:THR:HG23	2.03	0.57
3:F6:130:ALA:HB1	12:F6:201:CYC:HBC1	1.84	0.57
2:I6:62:LYS:HG2	2:I6:129:GLU:HG2	1.86	0.57
8:I7:44:THR:HG23	1:J7:18:TYR:CD2	2.39	0.57
8:o7:80:LEU:HD12	12:o7:201:CYC:HAD1	1.86	0.57
8:s7:44:THR:HG23	1:t7:18:TYR:CD2	2.39	0.57
12:X8:201:CYC:HB	12:X8:201:CYC:CMA	2.17	0.57
4:M8:92:GLU:OE2	4:M8:217:VAL:HG22	1.95	0.57
12:M8:302:CYC:C3C	3:S8:78:ARG:HG2	2.33	0.57
12:M8:302:CYC:HBB3	5:Z8:9:GLN:OE1	2.04	0.57
3:O8:111:ASN:O	5:Z8:67:ILE:CB	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O8:111:ASN:ND2	5:Z8:68:LEU:CG	2.66	0.57
3:L9:77:ARG:NH1	11:a9:538:ARG:HH21	2.01	0.57
4:M9:1:MET:HG3	4:M9:43:TYR:OH	2.04	0.57
4:M9:53:LEU:HA	12:F9:301:CYC:HMA2	1.86	0.57
5:N9:13:SER:HB3	5:N9:14:LYS:HD3	1.86	0.57
5:Z8:13:SER:HB3	5:Z8:14:LYS:HD3	1.86	0.57
3:J9:78:ARG:NH2	11:a9:359:ASP:N	2.50	0.57
12:W9:201:CYC:HB	12:W9:201:CYC:CMA	2.17	0.57
11:aA:338:VAL:CG2	11:aA:340:PRO:CD	2.78	0.57
4:M1:210:ILE:CD1	5:N1:59:ARG:NH1	2.66	0.57
12:U1:201:CYC:HB	12:U1:201:CYC:CMA	2.17	0.57
3:X1:2:GLN:HG2	3:X1:6:THR:HG22	1.86	0.57
12:C2:201:CYC:HB	12:C2:201:CYC:CMA	2.17	0.57
2:AA:63:PHE:CB	2:AA:66:LEU:CG	2.82	0.57
2:IA:62:LYS:HG2	2:IA:129:GLU:HG2	1.85	0.57
2:QA:32:GLN:HG2	2:UA:28:ASN:ND2	2.14	0.57
2:UA:62:LYS:HG2	2:UA:129:GLU:HG2	1.85	0.57
3:VA:127:VAL:HG22	12:VA:201:CYC:H3C	1.86	0.57
3:R1:2:GLN:HG2	3:R1:6:THR:HG22	1.86	0.57
2:K3:62:LYS:HG2	2:K3:129:GLU:HG2	1.85	0.57
2:I2:80:ALA:HB2	11:aA:297:ASP:CG	2.29	0.57
12:E3:201:CYC:HB	12:E3:201:CYC:CMA	2.17	0.57
3:B4:107:ASP:O	4:M4:61:ASN:HA	2.04	0.57
3:L3:104:VAL:HG11	3:L3:108:ARG:HH22	1.67	0.57
4:M3:1:MET:HG3	4:M3:43:TYR:OH	2.04	0.57
4:M3:160:THR:HG21	4:M3:257:GLN:CB	2.29	0.57
2:S3:62:LYS:HG2	2:S3:129:GLU:HG2	1.85	0.57
12:W3:201:CYC:HB	12:W3:201:CYC:CMA	2.17	0.57
3:J4:2:GLN:HG2	3:J4:6:THR:HG22	1.86	0.57
4:M4:20:THR:CG2	4:M4:67:LEU:HD11	2.35	0.57
4:M4:120:LEU:O	4:M4:123:GLU:HB2	2.04	0.57
4:M4:200:ILE:HB	5:Z4:52:ARG:HH22	1.69	0.57
1:D5:1:MET:O	1:D5:1:MET:HG3	2.03	0.57
1:D5:70:GLY:O	1:D5:77:ARG:NH1	2.38	0.57
8:I5:98:ALA:HA	1:J5:5:ILE:CG2	2.33	0.57
8:c5:53:GLN:HB2	8:c5:136:VAL:HG21	1.86	0.57
1:Z5:127:VAL:HB	10:k5:698:GLY:HA3	1.85	0.57
10:j5:247:ARG:HG2	10:j5:247:ARG:O	2.03	0.57
10:j5:853:LEU:HD12	10:j5:853:LEU:O	2.04	0.57
10:k5:647:ARG:HG2	10:k5:647:ARG:O	2.04	0.57
8:E7:126:VAL:HG23	12:E7:201:CYC:CMC	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i7:21:GLY:N	8:s7:101:VAL:H	2.02	0.57
8:i7:49:ARG:NH2	8:i7:140:LEU:CD2	2.67	0.57
8:i7:50:ILE:CD1	8:i7:137:ALA:CB	2.80	0.57
8:Y7:53:GLN:HB2	8:Y7:136:VAL:HG21	1.86	0.57
8:c7:96:ILE:HA	8:c7:152:TYR:CE1	2.30	0.57
12:D8:201:CYC:HB	12:D8:201:CYC:CMA	2.18	0.57
8:m7:37:LEU:HD11	1:n7:31:PHE:CE2	2.39	0.57
12:W8:202:CYC:CMA	12:W8:202:CYC:HB	2.18	0.57
3:H8:1:MET:N	11:a9:96:THR:CG2	2.68	0.57
3:H8:2:GLN:HG2	3:H8:6:THR:HG22	1.86	0.57
3:J8:127:VAL:HG22	12:J8:201:CYC:H3C	1.85	0.57
4:M8:232:VAL:HG21	3:Y8:113:LEU:HD11	1.86	0.57
2:N8:63:PHE:CB	2:N8:66:LEU:CG	2.82	0.57
3:Y8:88:ILE:O	3:Y8:92:TYR:HD2	1.87	0.57
12:E9:201:CYC:HB	12:E9:201:CYC:CMA	2.17	0.57
3:R9:2:GLN:HG2	3:R9:6:THR:HG22	1.86	0.57
11:a9:582:MET:O	11:a9:586:LEU:HD23	2.03	0.57
11:aA:89:ALA:CB	11:aA:92:LYS:HZ2	2.18	0.57
11:aA:95:ILE:HD12	11:aA:237:PHE:CD1	2.38	0.57
11:aA:280:ASP:OD1	11:aA:281:PRO:CD	2.34	0.57
12:aA:901:CYC:H3C	3:J1:127:VAL:HG22	1.86	0.57
12:E2:201:CYC:HB	12:E2:201:CYC:CMA	2.17	0.57
3:DA:68:ARG:NH2	3:XA:68:ARG:NH2	2.52	0.57
12:LA:202:CYC:C1B	11:aA:404:TYR:OH	2.53	0.57
4:MA:263:PRO:HG2	3:VA:115:GLU:C	2.30	0.57
12:O1:201:CYC:HB	12:O1:201:CYC:CMA	2.17	0.57
3:P1:2:GLN:HG2	3:P1:6:THR:HG22	1.86	0.57
3:B3:2:GLN:HG2	3:B3:6:THR:HG22	1.86	0.57
5:N3:37:HIS:CD2	12:T3:301:CYC:HMA3	2.39	0.57
2:O3:56:VAL:HG22	2:O3:82:CYS:SG	2.44	0.57
3:R3:2:GLN:HG2	3:R3:6:THR:HG22	1.86	0.57
3:T3:127:VAL:HG22	12:T3:301:CYC:H3C	1.85	0.57
3:U4:2:GLN:HG2	3:U4:6:THR:HG22	1.86	0.57
3:W4:127:VAL:HG22	12:W4:201:CYC:H3C	1.86	0.57
3:H4:2:GLN:HG2	3:H4:6:THR:HG22	1.86	0.57
12:N4:201:CYC:HB	12:N4:201:CYC:CMA	2.17	0.57
8:I5:2:SER:CB	1:J5:3:ASP:OD2	2.49	0.57
8:Q5:126:VAL:CG2	12:Q5:201:CYC:HMC3	2.34	0.57
1:X5:106:GLU:CG	10:j5:505:VAL:HA	2.35	0.57
12:Z5:201:CYC:HB	12:Z5:201:CYC:HMA2	1.69	0.57
3:L6:2:GLN:HG2	3:L6:6:THR:HG22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M6:117:MET:HE2	3:H6:77:ARG:HH12	1.55	0.57
8:A7:19:SER:OG	8:M7:100:ASP:OD1	2.14	0.57
10:j5:241:ALA:N	10:j5:242:PRO:HD3	2.19	0.57
10:k5:232:ARG:HB2	10:k5:232:ARG:NH1	2.18	0.57
12:k5:1202:CYC:HMA2	12:k5:1202:CYC:HB	1.69	0.57
2:E6:62:LYS:HG2	2:E6:129:GLU:HG2	1.85	0.57
12:H6:202:CYC:CMA	12:H6:202:CYC:HB	2.18	0.57
8:O7:15:ALA:C	1:P7:90:ARG:CZ	2.78	0.57
8:M7:53:GLN:HB2	8:M7:136:VAL:HG21	1.86	0.57
8:i7:20:PRO:CD	8:s7:155:TYR:CE2	2.87	0.57
9:x7:32:VAL:HG11	9:x7:37:TRP:HE3	1.70	0.57
9:y7:28:PHE:CD1	9:y7:28:PHE:N	2.72	0.57
12:T8:201:CYC:HB	12:T8:201:CYC:CMA	2.17	0.57
12:V8:201:CYC:HB	12:V8:201:CYC:CMA	2.17	0.57
3:F8:91:ARG:HH21	11:a9:140:GLN:NE2	1.95	0.57
12:G8:201:CYC:HB	12:G8:201:CYC:CMA	2.17	0.57
2:I8:62:LYS:HG2	2:I8:129:GLU:HG2	1.86	0.57
3:L8:82:CYS:SG	12:a9:901:CYC:H2C	2.44	0.57
4:M8:160:THR:HG21	4:M8:257:GLN:CB	2.30	0.57
12:L9:202:CYC:C1B	11:a9:404:TYR:OH	2.52	0.57
4:M9:4:LEU:HD12	3:D9:112:GLY:HA3	1.85	0.57
4:M9:159:CYS:C	3:V9:108:ARG:CG	2.77	0.57
5:N9:3:VAL:O	5:N9:4:LEU:C	2.44	0.57
5:Z8:66:ARG:HB2	5:Z8:66:ARG:NH1	2.16	0.57
3:F9:68:ARG:HH22	3:Z9:68:ARG:NH1	2.02	0.57
3:H9:84:ARG:HA	11:a9:478:HIS:CE1	2.37	0.57
3:T9:2:GLN:HG2	3:T9:6:THR:HG22	1.86	0.57
3:Z9:2:GLN:HG2	3:Z9:6:THR:HG22	1.86	0.57
12:Z9:201:CYC:CMA	12:Z9:201:CYC:HB	2.18	0.57
11:aA:595:ARG:CG	11:aA:596:THR:N	2.68	0.57
11:aA:668:TYR:HH	2:K1:115:GLU:CG	2.05	0.57
11:aA:745:GLY:HA2	2:K1:15:GLN:C	2.29	0.57
11:aA:798:SER:HB3	11:aA:800:THR:HG23	0.58	0.57
3:Z1:2:GLN:HG2	3:Z1:6:THR:HG22	1.87	0.57
1:A:17:LYS:C	8:a5:90:ARG:HD2	2.29	0.57
1:Z:131:GLN:HB3	1:X5:17:LYS:HZ3	1.70	0.57
12:JA:201:CYC:CMA	12:JA:201:CYC:HB	2.18	0.57
4:MA:134:ASN:OD1	3:RA:116:THR:HG23	2.03	0.57
2:QA:95:TYR:CD2	3:RA:9:ILE:HG23	2.40	0.57
12:QA:201:CYC:O2A	3:TA:67:ILE:HG21	2.02	0.57
12:QA:201:CYC:CMA	3:TA:79:MET:HG2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TA:32:LYS:CE	2:X4:57:GLN:HA	2.34	0.57
7:N2:48:LEU:HB3	12:N2:101:CYC:CBA	2.34	0.57
2:A4:63:PHE:CB	2:A4:66:LEU:CG	2.82	0.57
3:B4:92:TYR:OH	12:B4:202:CYC:HAB1	2.05	0.57
3:L3:77:ARG:HB3	11:a9:824:VAL:OXT	2.04	0.57
3:L3:119:ALA:HB2	11:a9:813:PRO:CA	2.25	0.57
3:S4:2:GLN:HG2	3:S4:6:THR:HG22	1.86	0.57
12:U4:202:CYC:CMA	12:U4:202:CYC:HB	2.18	0.57
12:L4:201:CYC:CMA	12:L4:201:CYC:HB	2.18	0.57
3:Q4:105:LEU:HD22	3:Q4:166:LYS:HD3	1.86	0.57
3:Q4:120:LEU:CD1	5:Z4:39:PRO:HA	2.35	0.57
2:R4:62:LYS:HG2	2:R4:129:GLU:HG2	1.85	0.57
8:A5:122:PRO:O	12:A5:201:CYC:HMC2	2.01	0.57
1:H5:14:VAL:HG11	10:j5:555:ALA:CA	2.33	0.57
1:H5:106:GLU:OE2	10:j5:560:VAL:HG12	2.05	0.57
8:I5:29:PHE:HE2	1:J5:5:ILE:HD11	1.69	0.57
1:d5:110:ASN:HD22	10:j5:451:LYS:HB3	1.64	0.57
8:Q5:18:LEU:HD22	1:R5:97:LEU:HD13	1.87	0.57
8:S5:90:ARG:CA	1:T5:18:TYR:CZ	2.87	0.57
12:K6:201:CYC:HB	12:K6:201:CYC:CMA	2.16	0.57
7:N6:29:LEU:HD21	3:D6:80:ALA:HB3	1.86	0.57
9:i5:6:LYS:NZ	9:i5:29:THR:CG2	2.67	0.57
10:j5:211:ALA:O	10:j5:212:ARG:C	2.46	0.57
10:j5:275:THR:HG22	10:j5:286:VAL:O	2.03	0.57
10:j5:286:VAL:HB	10:j5:293:LYS:CE	2.35	0.57
10:j5:965:GLN:CB	1:t7:69:GLY:HA2	2.33	0.57
10:j5:1119:LEU:CD2	1:t7:87:TYR:CE1	2.85	0.57
10:k5:803:LYS:NZ	9:z7:43:ARG:NH1	2.40	0.57
8:E7:126:VAL:CG2	12:E7:201:CYC:HMC3	2.34	0.57
8:i7:25:ARG:CZ	8:s7:3:VAL:O	2.52	0.57
8:U7:15:ALA:C	1:V7:90:ARG:CZ	2.78	0.57
3:B8:86:MET:HG3	12:B8:202:CYC:HBC2	1.85	0.57
12:B8:201:CYC:CMA	12:B8:201:CYC:HB	2.18	0.57
8:m7:29:PHE:CZ	8:m7:98:ALA:C	2.76	0.57
8:s7:15:ALA:HB1	1:t7:90:ARG:HH22	1.70	0.57
4:M8:20:THR:CG2	4:M8:67:LEU:HD11	2.35	0.57
4:M8:127:SER:HA	12:M8:302:CYC:HMA1	0.62	0.57
12:S8:201:CYC:HB	12:S8:201:CYC:CMA	2.18	0.57
3:L9:120:LEU:HD22	11:a9:538:ARG:CB	2.26	0.57
4:M9:144:ARG:NH2	5:N9:52:ARG:NH2	2.51	0.57
2:E9:152:ALA:CB	2:I9:21:ASN:HD21	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:G9:201:CYC:HB	12:G9:201:CYC:CMA	2.17	0.57
12:I9:201:CYC:HB	12:I9:201:CYC:CMA	2.17	0.57
12:T9:302:CYC:CMA	12:T9:302:CYC:HB	2.18	0.57
12:U9:201:CYC:HB	12:U9:201:CYC:CMA	2.17	0.57
11:a9:508:ARG:HB2	11:a9:513:GLN:HE22	1.68	0.57
4:M1:196:TYR:HB3	2:Y1:14:SER:O	2.03	0.57
3:T1:2:GLN:HG2	3:T1:6:THR:HG22	1.86	0.57
12:X1:202:CYC:HB	12:X1:202:CYC:CMA	2.17	0.57
1:A:13:ASP:OD2	8:a5:107:ILE:HG12	2.04	0.57
12:A:201:CYC:HB	12:A:201:CYC:HMA2	1.69	0.57
3:BA:14:LEU:HD13	3:XA:125:ARG:HD2	1.85	0.57
12:BA:201:CYC:CBB	4:MA:38:PRO:HD3	2.34	0.57
12:EA:201:CYC:HB	12:EA:201:CYC:CMA	2.17	0.57
3:LA:127:VAL:HG22	12:LA:202:CYC:H3C	1.85	0.57
4:MA:133:ARG:HB3	12:RA:201:CYC:CGA	2.34	0.57
4:MA:185:ALA:CA	12:VA:201:CYC:CBA	2.82	0.57
12:QA:201:CYC:HBA1	3:TA:79:MET:CE	2.34	0.57
3:XA:2:GLN:HG2	3:XA:6:THR:HG22	1.86	0.57
3:J3:80:ALA:CB	11:a9:670:LEU:CD2	2.83	0.57
7:N2:29:LEU:HD21	3:D2:80:ALA:HB3	1.86	0.57
3:D3:68:ARG:HH12	3:X3:68:ARG:CZ	2.16	0.57
12:F3:201:CYC:HAA1	4:M3:36:TYR:CE2	2.39	0.57
3:B4:82:CYS:CA	12:B4:202:CYC:H2C	2.34	0.57
3:B4:120:LEU:HG	4:M4:52:LEU:HB3	1.87	0.57
2:C4:62:LYS:HG2	2:C4:129:GLU:HG2	1.86	0.57
3:D4:2:GLN:HG2	3:D4:6:THR:HG22	1.86	0.57
3:P3:127:VAL:HG22	12:P3:201:CYC:H3C	1.86	0.57
12:X3:202:CYC:CMA	12:X3:202:CYC:HB	2.17	0.57
2:G4:62:LYS:HG2	2:G4:129:GLU:HG2	1.85	0.57
3:L4:2:GLN:HG2	3:L4:6:THR:HG22	1.86	0.57
4:M4:1:MET:HG3	4:M4:43:TYR:OH	2.04	0.57
4:M4:260:ARG:HH11	4:M4:260:ARG:CG	2.18	0.57
2:X4:62:LYS:HG2	2:X4:129:GLU:HG2	1.86	0.57
8:E5:17:TYR:HB3	1:F5:45:SER:CB	2.32	0.57
8:I5:90:ARG:HD2	1:J5:17:LYS:O	2.04	0.57
8:S5:90:ARG:CA	1:T5:18:TYR:CE2	2.87	0.57
12:a5:201:CYC:HC	12:a5:201:CYC:HMD3	1.70	0.57
6:M6:127:SER:CA	12:F6:201:CYC:O2A	2.52	0.57
10:j5:11:VAL:O	10:j5:11:VAL:HG12	2.03	0.57
10:j5:298:ARG:CG	10:j5:298:ARG:HH11	2.15	0.57
10:j5:357:LEU:HD21	10:j5:382:ILE:HG12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:11:VAL:HG12	10:k5:11:VAL:O	2.03	0.57
10:k5:19:THR:HB	10:k5:173:ALA:CB	2.34	0.57
10:k5:187:ARG:CB	10:k5:237:ASP:OD1	2.53	0.57
10:k5:934:ALA:HB1	1:D7:32:THR:HG21	0.59	0.57
10:k5:1118:THR:O	10:k5:1118:THR:HG22	2.03	0.57
3:D6:2:GLN:HG2	3:D6:6:THR:HG22	1.86	0.57
8:W7:13:ALA:C	9:w7:46:LYS:NZ	2.61	0.57
12:X7:201:CYC:HB	12:X7:201:CYC:HMA2	1.69	0.57
8:c7:126:VAL:CG2	12:c7:201:CYC:HMC1	2.34	0.57
1:f7:110:ASN:ND2	9:y7:57:PHE:O	2.38	0.57
2:E8:62:LYS:HG2	2:E8:129:GLU:HG2	1.85	0.57
8:m7:15:ALA:HB1	1:n7:90:ARG:HH22	1.70	0.57
9:y7:34:TYR:C	9:y7:34:TYR:CD1	2.83	0.57
3:U8:127:VAL:HG22	12:U8:201:CYC:H3C	1.86	0.57
2:V8:62:LYS:HG2	2:V8:129:GLU:HG2	1.85	0.57
2:X8:62:LYS:HG2	2:X8:129:GLU:HG2	1.86	0.57
3:J8:108:ARG:NH2	11:a9:171:ARG:CA	2.68	0.57
4:M8:98:ASP:HB2	4:M8:101:ASP:HB2	1.86	0.57
4:M8:235:PHE:N	12:M8:301:CYC:HMA1	2.18	0.57
4:M8:260:ARG:HH11	4:M8:260:ARG:CG	2.18	0.57
12:M8:302:CYC:CBC	3:S8:78:ARG:O	2.49	0.57
3:S8:116:THR:CG2	3:S8:117:TYR:N	2.67	0.57
4:M9:190:ARG:HH11	4:M9:202:SER:HB3	1.63	0.57
2:C9:62:LYS:HG2	2:C9:129:GLU:HG2	1.86	0.57
3:D9:2:GLN:HG2	3:D9:6:THR:HG22	1.86	0.57
12:J9:201:CYC:HC	12:J9:201:CYC:HMD2	1.70	0.57
12:G1:201:CYC:HB	12:G1:201:CYC:CMA	2.17	0.57
11:a9:331:TYR:HA	11:a9:333:GLN:HE21	1.66	0.57
11:a9:587:THR:OG1	11:a9:588:VAL:N	2.29	0.57
11:aA:75:ALA:CB	11:aA:81:ASP:OD1	2.25	0.57
11:aA:816:LEU:HD23	11:aA:816:LEU:O	2.04	0.57
3:X1:127:VAL:HG22	12:X1:201:CYC:H3C	1.85	0.57
12:F2:202:CYC:CMA	12:F2:202:CYC:HB	2.18	0.57
12:JA:202:CYC:HBB3	11:aA:516:GLN:HG2	1.86	0.57
12:LA:201:CYC:CMA	12:LA:201:CYC:HB	2.18	0.57
4:MA:19:MET:HG2	4:MA:59:ILE:HD13	1.86	0.57
4:MA:103:GLN:HA	4:MA:103:GLN:OE1	2.04	0.57
2:SA:62:LYS:HG2	2:SA:129:GLU:HG2	1.85	0.57
2:O1:63:PHE:CB	2:O1:66:LEU:CG	2.82	0.57
2:Q1:14:SER:CB	5:N1:62:ARG:CZ	2.79	0.57
12:R1:202:CYC:CMA	12:R1:202:CYC:HB	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:F3:201:CYC:CMD	12:F3:201:CYC:HC	2.18	0.57
3:Z3:2:GLN:HG2	3:Z3:6:THR:HG22	1.87	0.57
12:H4:201:CYC:CBB	11:aA:259:ALA:HB2	2.24	0.57
2:K4:13:ASP:O	11:aA:242:GLY:CA	2.52	0.57
4:M4:27:HIS:NE2	4:M4:34:ASP:OD1	2.36	0.57
3:Q4:4:ALA:N	3:Q4:99:ALA:O	2.37	0.57
12:Q4:201:CYC:CMA	12:Q4:201:CYC:HB	2.18	0.57
12:M5:201:CYC:HC	12:M5:201:CYC:HMD3	1.70	0.57
12:f5:201:CYC:HB	12:f5:201:CYC:HMA2	1.69	0.57
12:L6:202:CYC:CMA	12:L6:202:CYC:HB	2.18	0.57
6:M6:251:LYS:NZ	3:H6:121:GLY:HA3	2.20	0.57
10:j5:965:GLN:HG3	1:t7:69:GLY:C	2.22	0.57
10:k5:286:VAL:HB	10:k5:293:LYS:CE	2.35	0.57
2:C6:62:LYS:HG2	2:C6:129:GLU:HG2	1.86	0.57
12:I6:201:CYC:HB	12:I6:201:CYC:CMA	2.17	0.57
12:j7:201:CYC:HB	12:j7:201:CYC:HMA2	1.69	0.57
8:c7:4:LEU:O	8:c7:8:ILE:HG13	2.05	0.57
12:B8:202:CYC:CMD	12:B8:202:CYC:HC	2.18	0.57
8:s7:15:ALA:C	1:t7:90:ARG:CZ	2.78	0.57
4:M8:140:ARG:HH22	4:M8:210:ILE:CG1	2.13	0.57
3:Q8:117:TYR:HA	3:Q8:120:LEU:CG	2.33	0.57
3:Q8:120:LEU:HD12	3:Q8:121:GLY:N	2.19	0.57
12:F1:201:CYC:HAA1	4:M1:36:TYR:CE2	2.39	0.57
3:D9:68:ARG:NH2	3:X9:68:ARG:NH2	2.52	0.57
3:V9:127:VAL:HG22	12:V9:201:CYC:H3C	1.86	0.57
11:a9:239:TYR:CD1	12:a9:901:CYC:HBA1	2.38	0.57
11:aA:577:GLU:HA	11:aA:577:GLU:OE2	2.05	0.57
11:aA:670:LEU:CD2	3:J1:80:ALA:CB	2.83	0.57
12:I1:201:CYC:HB	12:I1:201:CYC:CMA	2.17	0.57
12:K1:201:CYC:HB	12:K1:201:CYC:CMA	2.17	0.57
4:M1:163:ASN:ND2	12:Z1:202:CYC:HMA1	2.20	0.57
4:M1:250:THR:HG21	3:X1:120:LEU:HD21	1.87	0.57
3:D2:127:VAL:HG22	12:D2:201:CYC:H3C	1.86	0.57
3:F2:2:GLN:HG2	3:F2:6:THR:HG22	1.86	0.57
2:CA:62:LYS:HG2	2:CA:129:GLU:HG2	1.86	0.57
3:DA:108:ARG:NH1	4:MA:9:GLN:OE1	2.38	0.57
12:FA:301:CYC:HC	12:FA:301:CYC:CMD	2.18	0.57
3:HA:113:LEU:HD13	12:HA:202:CYC:C2B	2.34	0.57
3:PA:2:GLN:HG2	3:PA:6:THR:HG22	1.86	0.57
2:QA:21:ASN:HB3	2:UA:153:TYR:OH	2.05	0.57
3:TA:24:LEU:C	2:X4:68:GLN:CD	2.73	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:R1:201:CYC:CMD	12:R1:201:CYC:HC	2.18	0.57
12:S1:201:CYC:HB	12:S1:201:CYC:CMA	2.17	0.57
12:L2:201:CYC:HC	12:L2:201:CYC:CMD	2.18	0.57
6:M2:258:VAL:O	6:M2:258:VAL:HG23	2.05	0.57
3:B4:116:THR:CG2	3:B4:117:TYR:N	2.67	0.57
12:B4:202:CYC:HC	12:B4:202:CYC:CMD	2.18	0.57
12:P3:202:CYC:CMA	12:P3:202:CYC:HB	2.18	0.57
12:B1:201:CYC:HB	12:B1:201:CYC:CMA	2.18	0.57
3:S4:120:LEU:HD13	12:S4:202:CYC:C4D	2.35	0.57
3:U4:108:ARG:HG2	4:M4:246:ALA:HB2	1.87	0.57
12:F4:201:CYC:HC	12:F4:201:CYC:HMD2	1.70	0.57
12:F4:201:CYC:CMA	12:F4:201:CYC:HB	2.18	0.57
3:H4:84:ARG:CG	11:aA:131:TYR:CE1	2.84	0.57
12:I4:201:CYC:HB	12:I4:201:CYC:CMA	2.17	0.57
12:O4:202:CYC:HC	12:O4:202:CYC:HMD2	1.70	0.57
2:P4:62:LYS:HG2	2:P4:129:GLU:HG2	1.85	0.57
3:Q4:116:THR:HB	5:Z4:40:SER:HB3	1.87	0.57
1:L5:79:ALA:HB1	8:G5:114:GLU:CB	2.34	0.57
8:U5:76:LYS:CD	8:U5:77:MET:HE3	2.07	0.57
8:U5:78:THR:CG2	6:M6:35:GLY:HA2	2.28	0.57
8:U5:79:ALA:CA	6:M6:31:ASP:O	2.50	0.57
3:J6:119:ALA:CB	6:M6:261:LYS:N	2.67	0.57
10:j5:187:ARG:NE	10:j5:237:ASP:OD2	2.37	0.57
10:j5:732:ARG:NH2	1:J7:68:PRO:O	2.31	0.57
10:j5:869:GLY:O	9:w7:43:ARG:CZ	2.53	0.57
10:k5:601:LYS:O	10:k5:601:LYS:HG3	2.05	0.57
12:D1:201:CYC:CMA	12:D1:201:CYC:HB	2.18	0.57
1:H7:54:GLU:CD	11:aA:563:PHE:CD2	2.83	0.57
8:g7:35:ARG:NH2	8:g7:144:ASP:CB	2.61	0.57
8:c7:50:ILE:HA	8:c7:136:VAL:CG1	2.34	0.57
8:c7:92:VAL:CG2	8:c7:156:LEU:HD12	2.34	0.57
12:e7:201:CYC:HC	12:e7:201:CYC:HMD3	1.70	0.57
12:p7:201:CYC:HB	12:p7:201:CYC:HMA2	1.69	0.57
2:T8:62:LYS:HG2	2:T8:129:GLU:HG2	1.86	0.57
2:X8:57:GLN:C	3:T9:32:LYS:HZ1	2.12	0.57
2:X8:68:GLN:CD	3:T9:24:LEU:C	2.73	0.57
12:H8:202:CYC:CMA	12:H8:202:CYC:HB	2.18	0.57
2:R8:62:LYS:HG2	2:R8:129:GLU:HG2	1.85	0.57
3:L9:127:VAL:HG22	12:L9:202:CYC:H3C	1.85	0.57
12:L9:202:CYC:CGD	11:a9:538:ARG:HB3	2.34	0.57
4:M9:103:GLN:OE1	4:M9:103:GLN:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:164:ARG:NH1	4:M9:259:ARG:O	2.33	0.57
4:M9:196:TYR:H	2:U9:15:GLN:HA	1.68	0.57
5:N9:1:MET:HG2	3:R9:119:ALA:CB	1.98	0.57
5:N9:1:MET:CB	5:N9:3:VAL:CG2	2.76	0.57
3:Y8:2:GLN:HG2	3:Y8:6:THR:HG22	1.86	0.57
5:Z8:37:HIS:HD2	12:Z8:301:CYC:C4A	2.07	0.57
5:Z8:41:GLN:CB	12:Z8:301:CYC:CMB	2.64	0.57
12:D9:202:CYC:CMA	12:D9:202:CYC:HB	2.18	0.57
12:H9:202:CYC:CMD	12:H9:202:CYC:HC	2.18	0.57
11:aA:798:SER:C	11:aA:800:THR:N	2.62	0.57
4:M1:1:MET:HG3	4:M1:43:TYR:OH	2.04	0.57
2:U1:47:ASN:O	2:U1:51:LEU:CG	2.53	0.57
1:A:118:SER:OG	10:k5:9:SER:HB2	2.04	0.57
2:EA:62:LYS:HG2	2:EA:129:GLU:HG2	1.85	0.57
3:FA:127:VAL:HG22	12:FA:301:CYC:H3C	1.85	0.57
3:HA:2:GLN:HG2	3:HA:6:THR:HG22	1.86	0.57
12:JA:202:CYC:HC	12:JA:202:CYC:CMD	2.18	0.57
2:OA:63:PHE:CB	2:OA:66:LEU:CG	2.82	0.57
12:PA:202:CYC:CMA	12:PA:202:CYC:HB	2.18	0.57
12:RA:202:CYC:CMA	12:RA:202:CYC:HB	2.18	0.57
12:ZA:202:CYC:HC	12:ZA:202:CYC:CMD	2.18	0.57
12:H2:202:CYC:HB	12:H2:202:CYC:CMA	2.18	0.57
12:L2:202:CYC:HB	12:L2:202:CYC:CMA	2.18	0.57
12:N2:101:CYC:HC	12:N2:101:CYC:CMD	2.18	0.57
12:F3:202:CYC:CMA	12:F3:202:CYC:HB	2.18	0.57
3:B4:116:THR:CA	4:M4:56:MET:CG	2.69	0.57
12:V3:202:CYC:CMA	12:V3:202:CYC:HB	2.18	0.57
12:X3:201:CYC:CMD	12:X3:201:CYC:HC	2.18	0.57
2:I4:14:SER:CB	11:aA:170:PHE:CE2	2.88	0.57
4:M4:87:ILE:CD1	3:Y4:77:ARG:HG2	2.27	0.57
4:M4:148:LYS:HD2	4:M4:197:ASP:OD1	2.04	0.57
1:B5:143:PRO:CG	8:W7:41:GLN:HE22	2.06	0.57
8:C5:29:PHE:CZ	8:C5:98:ALA:C	2.76	0.57
8:E5:4:LEU:O	8:E5:8:ILE:HG13	2.05	0.57
1:H5:10:ASN:OD1	10:j5:557:VAL:CB	2.52	0.57
1:H5:87:TYR:CZ	9:i5:19:THR:O	2.56	0.57
12:H5:201:CYC:HB	12:H5:201:CYC:HMA2	1.70	0.57
1:d5:62:TYR:HE1	12:e5:201:CYC:O1D	1.87	0.57
12:d5:201:CYC:NB	10:j5:379:PHE:HZ	2.01	0.57
1:R5:106:GLU:CG	10:k5:505:VAL:CA	2.76	0.57
8:W5:8:ILE:CG2	1:X5:94:TYR:HB3	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W5:16:ARG:CA	1:X5:90:ARG:CD	2.45	0.57
1:b5:18:TYR:CE2	10:k5:165:ARG:HG3	2.38	0.57
12:b5:201:CYC:HB	12:b5:201:CYC:HMA2	1.69	0.57
12:J6:201:CYC:CMA	12:J6:201:CYC:HB	2.18	0.57
12:A7:201:CYC:HC	12:A7:201:CYC:HMD3	1.70	0.57
9:i5:23:LEU:C	9:i5:25:ASN:H	2.09	0.57
10:j5:586:LEU:HD12	10:j5:607:LEU:HD23	1.77	0.57
10:j5:733:SER:CB	1:D7:154:ASP:OD2	2.51	0.57
10:j5:1148:THR:O	10:j5:1148:THR:HG23	2.04	0.57
10:k5:990:ARG:HD3	1:Z7:76:ARG:HD2	1.86	0.57
10:k5:1025:LEU:HD21	10:k5:1035:PHE:HB2	0.58	0.57
2:A6:56:VAL:HG22	2:A6:82:CYS:SG	2.44	0.57
12:B6:201:CYC:CMA	12:B6:201:CYC:HB	2.18	0.57
8:Q7:4:LEU:O	8:Q7:8:ILE:HG13	2.05	0.57
8:K7:4:LEU:O	8:K7:8:ILE:HG13	2.05	0.57
8:a7:90:ARG:HD3	1:b7:18:TYR:CD1	2.40	0.57
12:b7:201:CYC:HB	12:b7:201:CYC:HMA2	1.69	0.57
12:d7:201:CYC:C4B	9:x7:38:PHE:HE1	2.03	0.57
3:D8:2:GLN:HG2	3:D8:6:THR:HG22	1.86	0.57
8:m7:15:ALA:C	1:n7:90:ARG:CZ	2.78	0.57
8:o7:4:LEU:O	8:o7:8:ILE:HG13	2.05	0.57
8:o7:80:LEU:CD1	12:o7:201:CYC:CAD	2.82	0.57
8:s7:15:ALA:CB	1:t7:90:ARG:NH2	2.68	0.57
12:v7:201:CYC:HB	12:v7:201:CYC:HMA2	1.69	0.57
9:w7:15:LYS:HD2	9:w7:16:ARG:HB3	1.86	0.57
3:O8:111:ASN:CB	5:Z8:67:ILE:HB	2.24	0.57
3:F1:119:ALA:CB	4:M1:41:ASN:ND2	2.62	0.57
3:L9:2:GLN:HG2	3:L9:6:THR:HG22	1.86	0.57
3:B9:127:VAL:HG22	12:B9:201:CYC:H3C	1.86	0.57
3:H9:84:ARG:CA	11:a9:478:HIS:CE1	2.87	0.57
11:a9:72:ASP:HB3	11:a9:73:TYR:HA	1.86	0.57
11:a9:419:ARG:HH11	11:a9:419:ARG:HG3	1.69	0.57
11:a9:454:LEU:HD22	11:a9:535:ASP:OD2	2.00	0.57
11:aA:29:ARG:O	11:aA:29:ARG:HG2	2.04	0.57
11:aA:654:ALA:CB	2:I1:15:GLN:HG2	2.35	0.57
11:aA:694:ARG:HH22	4:M1:51:ARG:HH22	1.48	0.57
11:aA:731:GLN:HG3	3:L1:120:LEU:HD21	1.87	0.57
4:M1:269:SER:HA	3:V1:111:ASN:ND2	2.20	0.57
5:N1:13:SER:HB3	5:N1:14:LYS:HD3	1.86	0.57
1:A:18:TYR:CZ	8:a5:90:ARG:HA	2.40	0.57
3:HA:78:ARG:HD3	12:HA:202:CYC:CBD	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:HA:113:LEU:HD21	12:HA:202:CYC:HMB3	1.86	0.57
12:HA:201:CYC:CMA	12:HA:201:CYC:HB	2.18	0.57
3:LA:111:ASN:C	11:aA:532:ALA:HB3	2.29	0.57
12:TA:302:CYC:CMA	12:TA:302:CYC:HB	2.18	0.57
2:S1:62:LYS:HG2	2:S1:129:GLU:HG2	1.85	0.57
12:G3:201:CYC:HB	12:G3:201:CYC:CMA	2.17	0.57
2:K3:15:GLN:C	11:a9:745:GLY:HA2	2.29	0.57
12:K2:201:CYC:HB	12:K2:201:CYC:CMA	2.16	0.57
12:D3:201:CYC:CMA	12:D3:201:CYC:HB	2.18	0.57
3:F3:2:GLN:HG2	3:F3:6:THR:HG22	1.86	0.57
12:A4:201:CYC:HB	12:A4:201:CYC:CMA	2.17	0.57
3:B4:116:THR:CG2	4:M4:56:MET:HG2	2.33	0.57
3:B4:120:LEU:N	4:M4:52:LEU:CD1	2.68	0.57
3:L3:75:PRO:HG2	11:a9:823:ILE:CD1	2.35	0.57
3:T3:2:GLN:HG2	3:T3:6:THR:HG22	1.86	0.57
12:Y3:201:CYC:HB	12:Y3:201:CYC:CMA	2.17	0.57
12:W4:202:CYC:HB	12:W4:202:CYC:CMA	2.18	0.57
8:K5:24:ASP:OD2	8:U5:36:ARG:NH1	2.34	0.57
8:M5:14:GLU:OE2	10:k5:538:PHE:HE2	1.88	0.57
5:Z4:42:SER:CA	12:Z4:301:CYC:HMA1	2.18	0.57
12:F5:201:CYC:HMA2	12:F5:201:CYC:HB	1.69	0.57
8:G5:94:TYR:OH	1:H5:17:LYS:O	2.20	0.57
1:f5:38:VAL:CG1	10:j5:40:VAL:HG11	2.34	0.57
12:X5:201:CYC:HB	12:X5:201:CYC:HMA2	1.69	0.57
12:J6:202:CYC:CMD	12:J6:202:CYC:HC	2.18	0.57
12:L6:201:CYC:CMD	12:L6:201:CYC:HC	2.18	0.57
10:k5:182:ASN:HB2	12:k5:1201:CYC:HAB2	1.87	0.57
10:k5:820:HIS:HE1	10:k5:859:ILE:HD13	1.59	0.57
10:k5:1118:THR:CA	12:k5:1204:CYC:HBA1	2.34	0.57
3:D6:127:VAL:HG22	12:D6:201:CYC:H3C	1.86	0.57
8:O7:15:ALA:CB	1:P7:90:ARG:NH2	2.67	0.57
8:i7:47:ARG:CZ	1:j7:18:TYR:CD2	2.88	0.57
3:B8:2:GLN:HG2	3:B8:6:THR:HG22	1.86	0.57
8:s7:107:ILE:HD13	1:t7:13:ASP:CG	2.30	0.57
8:u7:29:PHE:HZ	1:v7:31:PHE:HZ	1.52	0.57
12:W8:201:CYC:CMD	12:W8:201:CYC:HC	2.18	0.57
12:H8:201:CYC:CMD	12:H8:201:CYC:HC	2.18	0.57
3:O8:104:VAL:CA	5:Z8:61:LYS:HE3	2.29	0.57
2:P8:18:PHE:HA	3:Q8:91:ARG:NH2	1.92	0.57
3:Q8:2:GLN:HG2	3:Q8:6:THR:HG22	1.86	0.57
12:Q8:201:CYC:CMA	12:Q8:201:CYC:HB	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L9:201:CYC:CMA	12:L9:201:CYC:HB	2.18	0.57
3:P9:2:GLN:HG2	3:P9:6:THR:HG22	1.86	0.57
3:J9:127:VAL:HG22	12:J9:202:CYC:H3C	1.85	0.57
2:K9:62:LYS:HG2	2:K9:129:GLU:HG2	1.85	0.57
12:R9:202:CYC:HB	12:R9:202:CYC:CMA	2.18	0.57
3:V9:2:GLN:HG2	3:V9:6:THR:HG22	1.87	0.57
2:G1:62:LYS:HG2	2:G1:129:GLU:HG2	1.85	0.57
12:T1:302:CYC:CMA	12:T1:302:CYC:HB	2.18	0.57
12:Z1:201:CYC:CMA	12:Z1:201:CYC:HB	2.18	0.57
12:Z1:202:CYC:HC	12:Z1:202:CYC:CMD	2.18	0.57
12:B2:201:CYC:HB	12:B2:201:CYC:CMA	2.18	0.57
12:D2:201:CYC:HC	12:D2:201:CYC:CMD	2.18	0.57
3:FA:68:ARG:HH22	3:ZA:68:ARG:NH1	2.02	0.56
3:JA:65:ASP:HB2	11:aA:354:VAL:HG21	1.76	0.56
4:MA:20:THR:CG2	4:MA:67:LEU:HD11	2.34	0.56
12:OA:201:CYC:HB	12:OA:201:CYC:CMA	2.17	0.56
12:RA:201:CYC:HC	12:RA:201:CYC:CMD	2.18	0.56
12:P1:202:CYC:HB	12:P1:202:CYC:CMA	2.18	0.56
3:H2:121:GLY:HA3	6:M2:251:LYS:NZ	2.20	0.56
12:H2:202:CYC:HC	12:H2:202:CYC:HMD2	1.70	0.56
12:B3:201:CYC:CMA	12:B3:201:CYC:HB	2.18	0.56
3:L3:119:ALA:HB2	11:a9:813:PRO:C	2.26	0.56
12:L3:202:CYC:O2A	11:a9:735:VAL:C	2.13	0.56
4:M3:250:THR:HG21	3:X3:120:LEU:HD21	1.87	0.56
4:M3:252:LEU:HD13	3:X3:77:ARG:HH12	1.69	0.56
12:V3:201:CYC:HC	12:V3:201:CYC:CMD	2.18	0.56
4:M4:101:ASP:N	2:P4:13:ASP:OD2	2.38	0.56
4:M4:144:ARG:HH21	4:M4:204:ILE:HG22	1.70	0.56
3:Y4:88:ILE:O	3:Y4:92:TYR:HD2	1.87	0.56
8:A5:138:THR:HG21	8:u7:75:GLU:HG2	1.87	0.56
12:B5:201:CYC:HBB2	9:z5:21:ARG:CB	2.35	0.56
1:J5:70:GLY:O	1:J5:77:ARG:NH1	2.38	0.56
12:P5:201:CYC:O2D	10:k5:642:ARG:NH2	2.38	0.56
6:M6:115:TYR:HD2	12:H6:201:CYC:O2A	1.88	0.56
10:j5:159:ASP:OD2	12:j5:1201:CYC:NC	2.37	0.56
10:j5:187:ARG:CB	10:j5:237:ASP:OD1	2.53	0.56
10:j5:1153:VAL:CG1	1:v7:59:ALA:O	2.52	0.56
10:k5:199:THR:HG22	12:k5:1201:CYC:HBC1	1.87	0.56
10:k5:853:LEU:O	10:k5:853:LEU:HD12	2.04	0.56
10:k5:939:GLN:O	10:k5:943:THR:CG2	2.50	0.56
10:k5:992:GLU:OE2	10:k5:992:GLU:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:1052:PRO:HB3	11:a9:32:ARG:CZ	2.34	0.56
3:D1:2:GLN:HG2	3:D1:6:THR:HG22	1.86	0.56
8:I7:6:LYS:HZ1	8:W7:19:SER:HB3	1.68	0.56
8:i7:6:LYS:HE2	8:s7:10:ASN:HB3	1.87	0.56
8:i7:20:PRO:HD2	8:s7:101:VAL:CG2	2.25	0.56
8:c7:25:ARG:NH2	8:m7:6:LYS:CE	2.67	0.56
8:e7:53:GLN:HB2	8:e7:136:VAL:HG21	1.86	0.56
2:C8:62:LYS:HG2	2:C8:129:GLU:HG2	1.86	0.56
12:D8:202:CYC:HC	12:D8:202:CYC:CMD	2.18	0.56
12:q7:201:CYC:HC	12:q7:201:CYC:HMD3	1.70	0.56
3:F8:115:GLU:CG	4:M8:3:VAL:HG21	2.30	0.56
12:F8:201:CYC:CMA	12:F8:201:CYC:HB	2.18	0.56
4:M8:134:ASN:OD1	5:Z8:1:MET:CE	2.52	0.56
12:M8:301:CYC:CMD	12:M8:301:CYC:HC	2.18	0.56
3:Q8:89:ILE:CB	3:Q8:92:TYR:HE2	2.11	0.56
12:D9:201:CYC:CMD	12:D9:201:CYC:HC	2.18	0.56
2:E9:62:LYS:HG2	2:E9:129:GLU:HG2	1.85	0.56
12:F9:303:CYC:HB	12:F9:303:CYC:CMA	2.18	0.56
2:G9:62:LYS:HG2	2:G9:129:GLU:HG2	1.85	0.56
2:U9:62:LYS:HG2	2:U9:129:GLU:HG2	1.85	0.56
12:X9:201:CYC:HC	12:X9:201:CYC:CMD	2.18	0.56
11:aA:278:LEU:CD1	11:aA:278:LEU:H	1.95	0.56
11:aA:622:ALA:N	3:J1:14:LEU:HD21	2.04	0.56
11:aA:809:ARG:NH2	3:L1:112:GLY:O	2.38	0.56
12:L1:201:CYC:CMA	12:L1:201:CYC:HB	2.18	0.56
4:M1:251:ASN:H	4:M1:251:ASN:ND2	1.95	0.56
3:Z1:127:VAL:HG22	12:Z1:202:CYC:H3C	1.86	0.56
1:Z:127:VAL:CG1	1:X5:15:GLN:CD	2.76	0.56
12:FA:301:CYC:HMA2	4:MA:53:LEU:HA	1.86	0.56
3:RA:2:GLN:HG2	3:RA:6:THR:HG22	1.86	0.56
2:WA:62:LYS:HG2	2:WA:129:GLU:HG2	1.85	0.56
3:D3:2:GLN:HG2	3:D3:6:THR:HG22	1.86	0.56
3:B4:82:CYS:CA	12:B4:202:CYC:NC	2.63	0.56
12:B4:201:CYC:CMA	12:B4:201:CYC:HB	2.18	0.56
3:L3:127:VAL:HG22	12:L3:202:CYC:H3C	1.85	0.56
4:M3:103:GLN:HA	4:M3:103:GLN:OE1	2.04	0.56
12:T3:301:CYC:HC	12:T3:301:CYC:CMD	2.18	0.56
3:B1:68:ARG:NH1	3:V1:68:ARG:HH12	1.92	0.56
3:S4:116:THR:CG2	3:S4:117:TYR:N	2.67	0.56
12:U4:201:CYC:CMD	12:U4:201:CYC:HC	2.18	0.56
12:L4:202:CYC:CMD	12:L4:202:CYC:HC	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:O4:201:CYC:HC	12:O4:201:CYC:CMD	2.18	0.56
12:O4:202:CYC:HB	12:O4:202:CYC:CMA	2.18	0.56
8:M5:90:ARG:CA	1:N5:18:TYR:CE2	2.87	0.56
12:C5:201:CYC:HC	12:C5:201:CYC:HMD3	1.70	0.56
8:Q5:8:ILE:CG2	1:R5:94:TYR:HB3	2.35	0.56
8:S5:68:PRO:HB2	8:a5:59:PHE:HB2	1.81	0.56
6:M6:127:SER:HB2	12:F6:201:CYC:O2A	2.05	0.56
10:j5:778:LYS:CE	12:L7:201:CYC:HBB2	2.34	0.56
10:j5:1008:PHE:HZ	1:v7:87:TYR:CE2	1.76	0.56
12:H6:201:CYC:CMD	12:H6:201:CYC:HC	2.18	0.56
8:E7:4:LEU:O	8:E7:8:ILE:HG13	2.05	0.56
8:I7:15:ALA:CB	1:J7:90:ARG:NH2	2.68	0.56
12:I7:201:CYC:HC	12:I7:201:CYC:HMD3	1.70	0.56
8:M7:62:ARG:O	8:M7:65:VAL:HG22	2.05	0.56
8:M7:94:TYR:OH	1:N7:17:LYS:O	2.24	0.56
8:i7:94:TYR:CE1	1:j7:9:ILE:CG2	2.77	0.56
8:i7:94:TYR:CD1	1:j7:9:ILE:CG2	2.88	0.56
12:T7:201:CYC:HB	12:T7:201:CYC:HMA2	1.69	0.56
1:X7:118:SER:O	9:w7:61:GLN:HG2	2.05	0.56
8:a7:89:LEU:HB3	1:b7:18:TYR:OH	2.05	0.56
8:q7:62:ARG:O	8:q7:65:VAL:HG22	2.05	0.56
8:u7:90:ARG:HB2	1:v7:18:TYR:OH	2.05	0.56
9:y7:33:PRO:HG2	9:y7:33:PRO:O	2.04	0.56
2:X8:68:GLN:CG	3:T9:24:LEU:HB3	2.32	0.56
3:H8:84:ARG:HD2	11:a9:131:TYR:CZ	2.39	0.56
12:J8:201:CYC:CMA	11:a9:176:ASN:ND2	2.55	0.56
2:K8:13:ASP:O	11:a9:242:GLY:CA	2.53	0.56
3:L8:2:GLN:HG2	3:L8:6:THR:HG22	1.86	0.56
4:M8:120:LEU:O	4:M8:123:GLU:HB2	2.04	0.56
3:O8:127:VAL:HG22	12:O8:201:CYC:H3C	1.85	0.56
4:M9:205:ASP:OD2	5:N9:52:ARG:NH2	2.37	0.56
3:P9:127:VAL:HG22	12:P9:201:CYC:H3C	1.85	0.56
12:J9:202:CYC:C1B	11:a9:512:TYR:HB2	2.31	0.56
3:X9:2:GLN:HG2	3:X9:6:THR:HG22	1.86	0.56
12:X9:202:CYC:CMA	12:X9:202:CYC:HB	2.18	0.56
11:a9:29:ARG:HG2	11:a9:29:ARG:O	2.04	0.56
11:a9:338:VAL:HG13	11:a9:340:PRO:CD	2.35	0.56
11:a9:601:ALA:HB1	11:a9:602:PRO:CD	2.35	0.56
11:aA:587:THR:OG1	11:aA:588:VAL:HG23	2.05	0.56
11:aA:823:ILE:CD1	3:L1:75:PRO:CG	2.83	0.56
2:K1:62:LYS:HG2	2:K1:129:GLU:HG2	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:D2:202:CYC:HB	12:D2:202:CYC:CMA	2.18	0.56
1:Z:73:TYR:OH	10:j5:162:TRP:NE1	2.38	0.56
12:DA:201:CYC:HC	12:DA:201:CYC:CMD	2.18	0.56
12:DA:202:CYC:HB	12:DA:202:CYC:CMA	2.18	0.56
2:EA:152:ALA:CB	2:IA:21:ASN:HD21	2.16	0.56
3:JA:2:GLN:HG2	3:JA:6:THR:HG22	1.86	0.56
3:JA:114:LYS:CE	8:S7:60:GLN:NE2	2.67	0.56
2:KA:17:ARG:CZ	2:KA:17:ARG:CB	2.83	0.56
2:KA:18:PHE:HE2	3:LA:48:ALA:HB1	1.67	0.56
4:MA:7:SER:C	4:MA:14:LEU:HD13	2.08	0.56
4:MA:274:VAL:CG2	3:VA:77:ARG:CG	2.83	0.56
5:NA:61:LYS:CD	12:TA:301:CYC:CBB	2.83	0.56
12:PA:201:CYC:HC	12:PA:201:CYC:CMD	2.18	0.56
3:ZA:2:GLN:HG2	3:ZA:6:THR:HG22	1.86	0.56
12:ZA:201:CYC:CMA	12:ZA:201:CYC:HB	2.18	0.56
12:P1:201:CYC:HC	12:P1:201:CYC:CMD	2.18	0.56
12:R1:202:CYC:HC	12:R1:202:CYC:HMD2	1.70	0.56
3:H3:2:GLN:HG2	3:H3:6:THR:HG22	1.86	0.56
2:K3:14:SER:HA	11:a9:746:TYR:CB	2.31	0.56
12:H2:201:CYC:HC	12:H2:201:CYC:CMD	2.18	0.56
12:L2:201:CYC:HBB2	6:M2:229:ALA:HB2	1.86	0.56
7:N2:22:GLN:O	7:N2:37:SER:OG	2.24	0.56
3:B4:108:ARG:C	4:M4:61:ASN:CB	2.78	0.56
3:L3:2:GLN:HG2	3:L3:6:THR:HG22	1.86	0.56
12:L3:201:CYC:CMA	12:L3:201:CYC:HB	2.18	0.56
4:M3:51:ARG:HH22	11:a9:694:ARG:HH22	1.49	0.56
4:M3:92:GLU:O	4:M3:92:GLU:HG3	1.99	0.56
12:S3:201:CYC:HB	12:S3:201:CYC:CMA	2.17	0.56
3:B1:2:GLN:HG2	3:B1:6:THR:HG22	1.86	0.56
12:S4:201:CYC:CMA	12:S4:201:CYC:HB	2.18	0.56
2:V4:62:LYS:HG2	2:V4:129:GLU:HG2	1.85	0.56
12:F4:202:CYC:HC	12:F4:202:CYC:CMD	2.18	0.56
12:H4:201:CYC:HC	12:H4:201:CYC:CMD	2.18	0.56
12:J4:201:CYC:HC	12:J4:201:CYC:CMD	2.18	0.56
4:M4:214:GLY:C	5:Z4:27:ALA:CA	2.78	0.56
4:M4:273:ILE:HG22	2:X4:107:ASP:OD2	2.06	0.56
12:M4:301:CYC:HC	12:M4:301:CYC:CMD	2.18	0.56
2:N4:63:PHE:HB3	2:N4:66:LEU:HG	1.88	0.56
3:O4:111:ASN:O	5:Z4:67:ILE:CB	2.53	0.56
3:O4:111:ASN:HD22	5:Z4:66:ARG:HB2	1.71	0.56
3:Q4:120:LEU:CD1	5:Z4:39:PRO:C	2.78	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y4:110:LEU:CD1	3:Y4:166:LYS:HB3	2.36	0.56
12:Y4:201:CYC:CMA	12:Y4:201:CYC:HB	2.18	0.56
1:J5:1:MET:O	1:J5:1:MET:HG3	2.03	0.56
1:f5:114:GLU:CD	10:j5:491:THR:OG1	2.47	0.56
12:U5:201:CYC:HC	12:U5:201:CYC:HMD3	1.71	0.56
3:J6:2:GLN:HG2	3:J6:6:THR:HG22	1.86	0.56
12:N6:101:CYC:CMD	12:N6:101:CYC:HC	2.18	0.56
10:j5:53:ARG:C	10:j5:56:ILE:HG22	2.28	0.56
10:j5:540:LEU:O	10:j5:540:LEU:HG	2.05	0.56
10:j5:601:LYS:HG3	10:j5:601:LYS:O	2.05	0.56
10:k5:929:PRO:HG2	1:D7:147:LYS:CE	2.33	0.56
10:k5:955:LEU:HD13	8:o7:80:LEU:CD2	2.35	0.56
10:k5:966:SER:OG	1:p7:14:VAL:HG11	2.03	0.56
10:k5:971:VAL:O	10:k5:971:VAL:HG22	2.06	0.56
2:A6:63:PHE:HB3	2:A6:66:LEU:HG	1.88	0.56
12:D6:202:CYC:CMA	12:D6:202:CYC:HB	2.18	0.56
12:F6:201:CYC:CMD	12:F6:201:CYC:HC	2.18	0.56
12:F6:202:CYC:CMA	12:F6:202:CYC:HB	2.18	0.56
8:O7:15:ALA:HB1	1:P7:90:ARG:HH22	1.70	0.56
8:O7:107:ILE:HD13	1:P7:13:ASP:CG	2.30	0.56
12:O7:201:CYC:HC	12:O7:201:CYC:HMD3	1.70	0.56
12:P7:201:CYC:HB	12:P7:201:CYC:HMA2	1.69	0.56
1:R7:118:SER:C	9:z7:61:GLN:NE2	2.59	0.56
12:R7:201:CYC:HB	12:R7:201:CYC:HMA2	1.69	0.56
12:S7:201:CYC:HC	12:S7:201:CYC:HMD3	1.70	0.56
1:B7:54:GLU:OE2	11:a9:563:PHE:CG	2.57	0.56
8:C7:107:ILE:HD13	1:D7:13:ASP:CG	2.30	0.56
8:G7:62:ARG:O	8:G7:65:VAL:HG22	2.06	0.56
8:I7:15:ALA:C	1:J7:90:ARG:CZ	2.78	0.56
8:K7:126:VAL:CG2	12:K7:201:CYC:HMC3	2.34	0.56
12:g7:201:CYC:HC	12:g7:201:CYC:HMD3	1.70	0.56
1:h7:62:TYR:HE1	12:i7:201:CYC:O1D	1.88	0.56
8:i7:88:TYR:HB3	8:i7:156:LEU:HD13	1.87	0.56
8:k7:53:GLN:HB2	8:k7:136:VAL:HG21	1.86	0.56
8:W7:4:LEU:O	8:W7:8:ILE:HG13	2.05	0.56
8:a7:6:LYS:NZ	8:o7:16:ARG:NH2	2.53	0.56
1:b7:53:LYS:HG2	1:b7:53:LYS:O	2.03	0.56
8:c7:15:ALA:HA	1:d7:90:ARG:NH1	2.08	0.56
8:c7:25:ARG:HH22	8:m7:6:LYS:HZ2	1.44	0.56
12:E1:201:CYC:HB	12:E1:201:CYC:CMA	2.17	0.56
3:B8:81:ALA:HB2	12:B8:202:CYC:HMD1	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:D8:202:CYC:CMA	4:M8:35:THR:OG1	2.53	0.56
12:r7:201:CYC:HMA2	12:r7:201:CYC:HB	1.70	0.56
12:s7:201:CYC:HC	12:s7:201:CYC:HMD3	1.70	0.56
8:u7:34:GLU:HG3	1:v7:28:LYS:HD3	1.87	0.56
9:x7:34:TYR:C	9:x7:34:TYR:CD1	2.83	0.56
9:y7:29:THR:HG22	9:y7:29:THR:O	2.06	0.56
9:y7:32:VAL:HG11	9:y7:37:TRP:HE3	1.70	0.56
12:U8:202:CYC:CMA	12:U8:202:CYC:HB	2.18	0.56
2:X8:68:GLN:NE2	3:T9:24:LEU:CD2	2.67	0.56
12:F8:202:CYC:CMD	12:F8:202:CYC:HC	2.18	0.56
2:G8:62:LYS:HG2	2:G8:129:GLU:HG2	1.85	0.56
12:I8:201:CYC:HB	12:I8:201:CYC:CMA	2.17	0.56
3:J8:2:GLN:HG2	3:J8:6:THR:HG22	1.86	0.56
12:J8:201:CYC:HC	12:J8:201:CYC:CMD	2.18	0.56
12:L8:201:CYC:HB	12:L8:201:CYC:CMA	2.18	0.56
4:M8:19:MET:HG2	4:M8:59:ILE:HD13	1.86	0.56
4:M8:200:ILE:CG2	5:Z8:52:ARG:NH2	2.69	0.56
4:M8:225:LYS:C	12:M8:301:CYC:O1A	2.44	0.56
4:M8:268:ARG:HH12	3:Y8:112:GLY:H	1.53	0.56
2:N8:99:ALA:HB2	3:O8:9:ILE:CD1	2.36	0.56
3:O8:107:ASP:CG	5:Z8:66:ARG:CG	2.78	0.56
3:O8:111:ASN:CG	5:Z8:68:LEU:HD23	2.29	0.56
3:O8:116:THR:N	5:Z8:70:ILE:HG22	2.15	0.56
3:Q8:88:ILE:O	3:Q8:92:TYR:HD2	1.88	0.56
12:F1:201:CYC:HBB2	4:M1:38:PRO:HD3	1.86	0.56
4:M9:9:GLN:OE1	3:D9:108:ARG:NH1	2.38	0.56
4:M9:133:ARG:HB3	12:R9:201:CYC:CGA	2.34	0.56
4:M9:263:PRO:HG2	3:V9:115:GLU:C	2.30	0.56
2:O9:60:TYR:CB	2:O9:67:THR:CG2	2.83	0.56
12:P9:201:CYC:CMD	12:P9:201:CYC:HC	2.18	0.56
3:Y8:92:TYR:HD1	3:Y8:105:LEU:HD22	1.70	0.56
3:Y8:113:LEU:O	3:Y8:114:LYS:C	2.48	0.56
12:D9:202:CYC:HC	12:D9:202:CYC:HMD2	1.70	0.56
2:K9:17:ARG:CZ	2:K9:17:ARG:CB	2.83	0.56
3:R9:127:VAL:HG22	12:R9:201:CYC:H3C	1.86	0.56
12:T9:301:CYC:HC	12:T9:301:CYC:CMD	2.18	0.56
11:a9:22:ALA:O	11:a9:26:PRO:HD3	2.06	0.56
11:a9:632:ILE:HG23	11:a9:634:ALA:HB2	1.82	0.56
11:aA:22:ALA:O	11:aA:26:PRO:HD3	2.05	0.56
11:aA:405:ILE:HG22	11:aA:405:ILE:O	2.05	0.56
11:aA:419:ARG:HH11	11:aA:419:ARG:HG3	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:450:ARG:NE	11:aA:543:GLN:OE1	2.38	0.56
11:aA:746:TYR:HB2	2:K1:14:SER:CB	2.34	0.56
11:aA:820:GLY:O	11:aA:821:ARG:O	2.24	0.56
12:aA:902:CYC:HC	12:aA:902:CYC:CMD	2.18	0.56
12:J1:201:CYC:HB	12:J1:201:CYC:CMA	2.18	0.56
4:M1:252:LEU:HD13	3:X1:77:ARG:HH12	1.69	0.56
5:N1:1:MET:CB	5:N1:3:VAL:CG2	2.76	0.56
3:V1:2:GLN:HG2	3:V1:6:THR:HG22	1.86	0.56
12:Y1:201:CYC:HB	12:Y1:201:CYC:CMA	2.17	0.56
12:D2:202:CYC:HC	12:D2:202:CYC:HMD2	1.70	0.56
12:F2:201:CYC:CMD	12:F2:201:CYC:HC	2.18	0.56
12:BA:202:CYC:CMA	12:BA:202:CYC:HB	2.18	0.56
3:FA:2:GLN:HG2	3:FA:6:THR:HG22	1.86	0.56
3:LA:120:LEU:CD2	11:aA:538:ARG:CB	2.83	0.56
4:MA:251:ASN:HD22	4:MA:251:ASN:N	1.92	0.56
5:NA:1:MET:CG	3:RA:119:ALA:HB2	1.92	0.56
2:QA:19:LEU:O	3:RA:45:THR:HG21	2.06	0.56
12:RA:202:CYC:HC	12:RA:202:CYC:HMD2	1.70	0.56
12:XA:202:CYC:CMA	12:XA:202:CYC:HB	2.18	0.56
3:H3:70:GLY:CA	11:a9:620:ALA:O	2.53	0.56
3:J3:77:ARG:NH1	2:K3:107:ASP:CG	2.63	0.56
12:J3:202:CYC:O1D	11:a9:802:ARG:CD	2.52	0.56
12:J2:202:CYC:HC	12:J2:202:CYC:CMD	2.18	0.56
12:Z3:202:CYC:HC	12:Z3:202:CYC:HMD2	1.70	0.56
5:N3:34:LEU:CB	3:T3:84:ARG:HH11	2.17	0.56
3:V3:2:GLN:HG2	3:V3:6:THR:HG22	1.86	0.56
12:L4:202:CYC:CBB	11:aA:245:ALA:N	2.69	0.56
4:M4:273:ILE:HD12	2:X4:108:TYR:CE1	2.36	0.56
3:Q4:2:GLN:HG2	3:Q4:6:THR:HG22	1.86	0.56
8:K5:29:PHE:HE1	8:K5:99:GLY:HA3	1.68	0.56
12:N5:201:CYC:HBB1	10:k5:482:GLN:HE22	1.70	0.56
8:A5:122:PRO:HG2	12:A5:201:CYC:OC	2.06	0.56
12:D5:201:CYC:HB	12:D5:201:CYC:HMA2	1.69	0.56
1:f5:5:ILE:HD12	10:j5:46:PHE:HZ	1.59	0.56
8:U5:59:PHE:HE2	6:M6:37:GLU:OE2	1.76	0.56
7:N6:48:LEU:HB3	12:N6:101:CYC:CBA	2.34	0.56
10:j5:328:ILE:HG12	10:j5:328:ILE:O	2.04	0.56
10:j5:1146:THR:OG1	1:v7:71:MEN:CE2	2.52	0.56
10:k5:211:ALA:O	10:k5:212:ARG:C	2.46	0.56
10:k5:388:ARG:HD2	10:k5:393:MET:N	2.13	0.56
10:k5:544:VAL:HG13	10:k5:564:VAL:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C7:15:ALA:C	1:D7:90:ARG:CZ	2.78	0.56
8:g7:90:ARG:HD3	1:h7:18:TYR:CD1	2.40	0.56
8:Y7:62:ARG:O	8:Y7:65:VAL:HG22	2.05	0.56
8:u7:37:LEU:HD22	1:v7:24:LEU:CB	2.33	0.56
3:U8:2:GLN:HG2	3:U8:6:THR:HG22	1.86	0.56
12:W8:202:CYC:HC	12:W8:202:CYC:HMD2	1.70	0.56
3:F8:127:VAL:HG22	12:F8:202:CYC:H3C	1.86	0.56
4:M8:102:VAL:HG13	4:M8:132:LEU:HD23	1.88	0.56
12:M8:301:CYC:CMB	3:Y8:89:ILE:HG12	2.34	0.56
12:F1:201:CYC:CMD	12:F1:201:CYC:HC	2.18	0.56
4:M9:28:HIS:NE2	12:B9:201:CYC:OB	2.29	0.56
5:N9:53:LEU:CA	12:T9:301:CYC:HBA2	2.33	0.56
3:B9:30:LEU:HD12	3:B9:30:LEU:N	2.19	0.56
3:B9:107:ASP:CG	11:a9:382:ASN:ND2	2.58	0.56
12:H9:201:CYC:CMA	12:H9:201:CYC:HB	2.18	0.56
12:V9:202:CYC:CMA	12:V9:202:CYC:HB	2.18	0.56
12:Z9:202:CYC:CMD	12:Z9:202:CYC:HC	2.18	0.56
11:aA:819:SER:O	11:aA:819:SER:OG	2.15	0.56
11:aA:823:ILE:O	11:aA:823:ILE:HG23	2.04	0.56
12:aA:901:CYC:CMD	12:aA:901:CYC:HC	2.18	0.56
3:J1:2:GLN:HG2	3:J1:6:THR:HG22	1.86	0.56
4:M1:20:THR:CG2	4:M1:67:LEU:HD11	2.34	0.56
12:T1:301:CYC:HC	12:T1:301:CYC:CMD	2.18	0.56
2:EA:33:ARG:CG	2:IA:25:GLN:HE22	2.16	0.56
2:EA:99:ALA:HB2	3:FA:9:ILE:CD1	2.36	0.56
3:FA:151:GLY:O	3:F9:150:ARG:CZ	2.54	0.56
4:MA:205:ASP:OD2	5:NA:52:ARG:NH2	2.37	0.56
4:MA:274:VAL:HG22	3:VA:77:ARG:CG	2.35	0.56
12:TA:301:CYC:HC	12:TA:301:CYC:CMD	2.18	0.56
12:XA:201:CYC:CMD	12:XA:201:CYC:HC	2.18	0.56
2:O1:99:ALA:HB2	3:P1:9:ILE:CD1	2.36	0.56
3:R1:127:VAL:HG22	12:R1:201:CYC:H3C	1.85	0.56
2:G3:107:ASP:CB	3:L3:77:ARG:NH1	2.69	0.56
12:H3:201:CYC:CMA	12:H3:201:CYC:HB	2.18	0.56
3:L2:77:ARG:NH1	6:M2:70:GLU:HG2	2.13	0.56
12:D3:202:CYC:CMD	12:D3:202:CYC:HC	2.18	0.56
12:D4:201:CYC:CMA	12:D4:201:CYC:HB	2.18	0.56
12:P3:201:CYC:HC	12:P3:201:CYC:CMD	2.18	0.56
12:R3:202:CYC:CMA	12:R3:202:CYC:HB	2.18	0.56
12:T3:302:CYC:CMA	12:T3:302:CYC:HB	2.18	0.56
3:B1:85:ASP:CG	12:B1:202:CYC:HD	2.10	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:95:ALA:H	3:Q4:88:ILE:CD1	2.18	0.56
4:M4:103:GLN:HA	4:M4:103:GLN:OE1	2.04	0.56
3:O4:104:VAL:HG22	5:Z4:61:LYS:NZ	2.20	0.56
3:Q4:72:ASN:O	12:Z4:301:CYC:HMD1	2.03	0.56
8:M5:90:ARG:CZ	1:N5:16:GLY:C	2.78	0.56
5:Z4:41:GLN:HG3	12:Z4:301:CYC:CAB	2.35	0.56
8:A5:65:VAL:HG23	8:A5:66:VAL:N	2.21	0.56
8:G5:122:PRO:O	12:G5:201:CYC:HMC2	2.01	0.56
8:c5:62:ARG:O	8:c5:65:VAL:HG22	2.05	0.56
1:X5:143:PRO:HG2	8:a5:38:ARG:NE	2.20	0.56
8:Y5:114:GLU:OE1	10:k5:312:TYR:C	2.47	0.56
10:j5:66:MET:HE3	10:j5:66:MET:CA	2.23	0.56
10:j5:221:LYS:HZ1	10:j5:221:LYS:C	2.12	0.56
10:j5:286:VAL:HB	10:j5:293:LYS:HE2	1.88	0.56
10:j5:431:GLN:HA	10:j5:431:GLN:NE2	2.20	0.56
10:j5:971:VAL:HG13	1:t7:76:ARG:CZ	2.35	0.56
10:j5:974:LEU:CG	1:v7:1:MET:H2	2.12	0.56
10:j5:1026:LYS:C	10:j5:1028:ASN:H	2.12	0.56
10:k5:431:GLN:HA	10:k5:431:GLN:NE2	2.20	0.56
10:k5:540:LEU:O	10:k5:540:LEU:HG	2.06	0.56
10:k5:723:GLN:HE21	10:k5:723:GLN:CA	2.18	0.56
10:k5:1043:GLU:CD	8:Y7:14:GLU:HG2	2.31	0.56
2:C6:99:ALA:HB2	3:D6:9:ILE:CD1	2.36	0.56
8:G7:53:GLN:HB2	8:G7:136:VAL:HG21	1.86	0.56
8:I7:37:LEU:HD11	1:J7:31:PHE:CE2	2.39	0.56
8:i7:4:LEU:O	8:i7:8:ILE:HG13	2.05	0.56
12:U7:201:CYC:HC	12:U7:201:CYC:HMD3	1.70	0.56
12:a7:201:CYC:HC	12:a7:201:CYC:HMD3	1.71	0.56
1:f7:67:ARG:CG	11:aA:311:LEU:CD2	2.76	0.56
3:D8:127:VAL:HG22	12:D8:202:CYC:H3C	1.86	0.56
3:W8:2:GLN:HG2	3:W8:6:THR:HG22	1.86	0.56
3:O8:2:GLN:HG2	3:O8:6:THR:HG22	1.86	0.56
3:S8:116:THR:HG23	3:S8:117:TYR:H	1.70	0.56
12:J9:202:CYC:CMD	12:J9:202:CYC:HC	2.18	0.56
2:G1:107:ASP:CB	3:L1:77:ARG:NH1	2.69	0.56
12:a9:901:CYC:CMD	12:a9:901:CYC:HC	2.18	0.56
11:aA:338:VAL:HG13	11:aA:340:PRO:CD	2.35	0.56
3:L1:2:GLN:HG2	3:L1:6:THR:HG22	1.86	0.56
1:A:76:ARG:HH21	10:k5:16:LEU:HD12	1.69	0.56
2:GA:99:ALA:HB2	3:HA:9:ILE:CD1	2.36	0.56
2:IA:99:ALA:HB2	3:JA:9:ILE:CD1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QA:84:ARG:NH1	3:TA:67:ILE:HD12	2.18	0.56
3:J3:77:ARG:HE	2:K3:111:ALA:HB2	1.68	0.56
2:K3:115:GLU:OE2	11:a9:670:LEU:HD23	2.06	0.56
3:H2:2:GLN:HG2	3:H2:6:THR:HG22	1.86	0.56
6:M2:26:PHE:CA	8:O5:83:ARG:HD2	2.35	0.56
2:A3:63:PHE:HB3	2:A3:66:LEU:HG	1.88	0.56
3:B4:85:ASP:C	12:B4:202:CYC:HBC3	2.29	0.56
3:D4:150:ARG:HH11	2:C1:140:SER:HB2	1.68	0.56
2:S3:99:ALA:HB2	3:T3:9:ILE:CD1	2.36	0.56
3:B1:127:VAL:CG2	12:B1:202:CYC:HMC3	2.36	0.56
2:I4:112:GLY:H	11:aA:133:LEU:CD2	2.18	0.56
4:M4:95:ALA:N	3:Q4:88:ILE:HD13	2.19	0.56
4:M4:144:ARG:NH2	5:Z4:59:ARG:HH11	1.87	0.56
3:Q4:82:CYS:CA	12:Z4:301:CYC:HAC2	2.33	0.56
3:Q4:84:ARG:NH1	5:Z4:31:TRP:HB2	2.21	0.56
3:Q4:103:SER:O	3:Q4:105:LEU:N	2.38	0.56
8:M5:62:ARG:O	8:M5:65:VAL:HG22	2.06	0.56
3:Y4:2:GLN:HG2	3:Y4:6:THR:HG22	1.86	0.56
12:J5:201:CYC:HB	12:J5:201:CYC:HMA2	1.69	0.56
12:T5:201:CYC:HB	12:T5:201:CYC:HMA2	1.69	0.56
8:Y5:65:VAL:HG23	8:Y5:66:VAL:N	2.21	0.56
6:M6:68:THR:N	3:H6:14:LEU:HD21	2.21	0.56
9:i5:8:THR:CB	9:i5:52:LEU:HB2	2.36	0.56
10:j5:227:ILE:HG22	10:j5:227:ILE:O	2.06	0.56
10:j5:929:PRO:CB	1:J7:147:LYS:HG2	2.35	0.56
10:j5:1025:LEU:CA	10:j5:1030:ILE:CG2	2.79	0.56
10:j5:1146:THR:OG1	1:v7:71:MEN:ND2	2.38	0.56
10:k5:286:VAL:CB	10:k5:293:LYS:HE2	2.36	0.56
10:k5:965:GLN:CA	1:n7:69:GLY:HA2	2.29	0.56
1:D7:67:ARG:O	1:D7:68:PRO:C	2.49	0.56
1:J7:67:ARG:O	1:J7:68:PRO:C	2.49	0.56
8:i7:46:ALA:HB3	8:i7:140:LEU:HD12	1.85	0.56
8:U7:35:ARG:NH2	8:U7:144:ASP:CB	2.61	0.56
12:Y7:201:CYC:HC	12:Y7:201:CYC:HMD3	1.70	0.56
1:b7:75:THR:HG22	8:c7:115:MET:CE	2.34	0.56
8:c7:43:LEU:HD21	8:c7:149:ALA:CB	2.32	0.56
2:E8:99:ALA:HB2	3:F8:9:ILE:CD1	2.36	0.56
8:m7:107:ILE:HD13	1:n7:13:ASP:CG	2.30	0.56
8:o7:34:GLU:HG3	1:p7:28:LYS:HD3	1.87	0.56
1:t7:75:THR:HG22	8:u7:115:MET:SD	2.45	0.56
9:z7:15:LYS:HD2	9:z7:16:ARG:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W8:75:PRO:HB2	2:X8:108:TYR:O	2.06	0.56
2:X8:57:GLN:HA	3:T9:32:LYS:CE	2.34	0.56
3:F8:91:ARG:NH2	11:a9:140:GLN:HE21	2.00	0.56
2:I8:112:GLY:N	11:a9:133:LEU:HD21	2.20	0.56
12:J8:202:CYC:HB	12:J8:202:CYC:CMA	2.18	0.56
3:S8:2:GLN:HG2	3:S8:6:THR:HG22	1.86	0.56
3:F1:127:VAL:HG22	12:F1:201:CYC:H3C	1.86	0.56
2:Q9:99:ALA:HB2	3:R9:9:ILE:CD1	2.36	0.56
12:Y8:201:CYC:CMA	12:Y8:201:CYC:HB	2.18	0.56
12:B9:202:CYC:HB	12:B9:202:CYC:CMA	2.18	0.56
12:F9:302:CYC:HC	12:F9:302:CYC:HMD2	1.70	0.56
12:F9:302:CYC:CMA	12:F9:302:CYC:HB	2.18	0.56
2:I9:99:ALA:HB2	3:J9:9:ILE:CD1	2.36	0.56
12:J9:201:CYC:CMA	12:J9:201:CYC:HB	2.18	0.56
12:R9:201:CYC:HC	12:R9:201:CYC:CMD	2.18	0.56
12:V9:201:CYC:HC	12:V9:201:CYC:CMD	2.18	0.56
2:W9:99:ALA:HB2	3:X9:9:ILE:CD1	2.36	0.56
11:a9:75:ALA:CB	11:a9:81:ASP:HB3	1.92	0.56
11:a9:577:GLU:OE2	11:a9:577:GLU:HA	2.05	0.56
11:a9:581:ARG:HG3	11:a9:581:ARG:NH1	2.17	0.56
3:H1:2:GLN:HG2	3:H1:6:THR:HG22	1.86	0.56
12:V1:201:CYC:CMD	12:V1:201:CYC:HC	2.18	0.56
1:Z:18:TYR:CZ	8:e5:90:ARG:CA	2.88	0.56
1:Z:83:ARG:HD3	10:j5:259:PRO:HD3	1.88	0.56
3:HA:78:ARG:CG	12:HA:202:CYC:HAD1	2.35	0.56
3:HA:107:ASP:HB3	11:aA:445:THR:HG23	1.88	0.56
4:MA:192:GLN:O	4:MA:192:GLN:HG3	2.05	0.56
2:SA:39:GLU:N	2:X4:69:PRO:HG2	2.11	0.56
3:J2:2:GLN:HG2	3:J2:6:THR:HG22	1.86	0.56
12:J2:201:CYC:CMA	12:J2:201:CYC:HB	2.18	0.56
6:M2:45:ILE:HD12	8:i7:78:THR:CG2	2.35	0.56
6:M2:53:LEU:CD2	8:i7:80:LEU:CG	2.53	0.56
12:F3:201:CYC:HBB2	4:M3:38:PRO:HD3	1.86	0.56
2:A4:108:TYR:O	3:D4:75:PRO:HB2	2.06	0.56
4:M3:91:VAL:HG12	4:M3:91:VAL:O	2.06	0.56
5:N3:66:ARG:HH12	3:R3:111:ASN:ND2	1.94	0.56
12:S4:202:CYC:CMD	12:S4:202:CYC:HC	2.18	0.56
3:U4:75:PRO:HB2	2:V4:108:TYR:O	2.06	0.56
12:W4:202:CYC:HC	12:W4:202:CYC:HMD2	1.70	0.56
3:L4:68:ARG:HH12	11:aA:75:ALA:HB3	1.65	0.56
12:M4:301:CYC:NA	3:Y4:85:ASP:OD2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K5:4:LEU:O	8:K5:8:ILE:HG13	2.05	0.56
3:Y4:124:THR:C	3:Y4:172:ALA:HA	2.31	0.56
8:G5:106:GLU:OE1	10:j5:557:VAL:CB	2.48	0.56
8:S5:90:ARG:CZ	1:T5:16:GLY:C	2.78	0.56
9:i5:6:LYS:HZ1	9:i5:29:THR:HG21	1.71	0.56
10:j5:1069:ARG:HD3	10:j5:1115:ARG:HH11	1.69	0.56
10:k5:77:VAL:CG2	10:k5:141:GLU:HB3	2.32	0.56
10:k5:138:PRO:CG	10:k5:201:VAL:HG11	2.34	0.56
10:k5:1078:SER:OG	12:k5:1203:CYC:O1A	2.21	0.56
3:B6:2:GLN:HG2	3:B6:6:THR:HG22	1.86	0.56
12:D6:201:CYC:CMD	12:D6:201:CYC:HC	2.18	0.56
8:S7:53:GLN:HB2	8:S7:136:VAL:HG21	1.86	0.56
1:B7:136:VAL:CG1	11:a9:563:PHE:HZ	2.08	0.56
12:F7:201:CYC:HMA2	12:F7:201:CYC:HB	1.69	0.56
8:G7:94:TYR:OH	1:H7:17:LYS:O	2.24	0.56
8:g7:63:PRO:CG	11:aA:334:LYS:HA	2.36	0.56
8:g7:89:LEU:HB3	1:h7:18:TYR:OH	2.05	0.56
8:i7:20:PRO:CD	8:s7:101:VAL:CG2	2.81	0.56
12:k7:201:CYC:HC	12:k7:201:CYC:HMD3	1.71	0.56
8:o7:17:TYR:CD2	1:p7:93:THR:CB	2.89	0.56
8:q7:53:GLN:HB2	8:q7:136:VAL:HG21	1.86	0.56
8:u7:4:LEU:O	8:u7:8:ILE:HG13	2.05	0.56
8:u7:90:ARG:CB	1:v7:18:TYR:CE2	2.88	0.56
8:u7:90:ARG:HG3	1:v7:18:TYR:CD2	2.41	0.56
9:x7:33:PRO:HG2	9:x7:33:PRO:O	2.04	0.56
12:U8:202:CYC:HC	12:U8:202:CYC:HMD2	1.70	0.56
4:M8:82:ILE:HD11	12:M8:301:CYC:O2D	2.06	0.56
4:M8:239:PHE:CZ	3:Y8:120:LEU:HD21	2.41	0.56
12:O8:202:CYC:CMA	12:O8:202:CYC:HB	2.18	0.56
2:P8:62:LYS:HG2	2:P8:129:GLU:HG2	1.85	0.56
4:M9:160:THR:HG22	4:M9:257:GLN:HB3	1.73	0.56
12:Y8:201:CYC:HC	12:Y8:201:CYC:HMD2	1.70	0.56
2:C9:99:ALA:HB2	3:D9:9:ILE:CD1	2.36	0.56
2:U9:108:TYR:O	3:Z9:75:PRO:HB2	2.06	0.56
2:G1:107:ASP:CG	3:L1:77:ARG:NH1	2.64	0.56
5:N1:34:LEU:CB	3:T1:84:ARG:HH11	2.17	0.56
3:B2:77:ARG:HH11	3:B2:77:ARG:CG	2.18	0.56
3:F2:82:CYS:SG	12:F2:201:CYC:HAC1	2.35	0.56
2:OA:99:ALA:HB2	3:PA:9:ILE:CD1	2.36	0.56
12:VA:202:CYC:CMA	12:VA:202:CYC:HB	2.18	0.56
2:A1:99:ALA:HB2	3:B1:9:ILE:CD1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J3:77:ARG:NH1	2:K3:107:ASP:CB	2.68	0.56
2:K3:99:ALA:HB2	3:L3:9:ILE:CD1	2.36	0.56
12:F3:201:CYC:CBB	4:M3:38:PRO:HD3	2.35	0.56
3:B4:85:ASP:C	12:B4:202:CYC:HAC1	2.27	0.56
4:M3:205:ASP:OD2	5:N3:52:ARG:NH2	2.39	0.56
3:S4:9:ILE:CD1	2:R4:99:ALA:HB2	2.36	0.56
2:T4:99:ALA:HB2	3:U4:9:ILE:CD1	2.36	0.56
3:F4:107:ASP:O	4:M4:6:THR:O	2.23	0.56
3:J4:75:PRO:HB2	2:K4:108:TYR:O	2.06	0.56
4:M4:137:ILE:HA	5:Z4:44:TYR:HE1	1.71	0.56
3:Q4:102:ALA:HB1	3:Q4:166:LYS:CE	2.16	0.56
8:O5:69:GLY:O	8:A5:64:ASP:OD2	2.24	0.56
3:Y4:85:ASP:O	3:Y4:88:ILE:HG12	2.06	0.56
5:Z4:2:SER:O	5:Z4:2:SER:OG	2.16	0.56
8:A5:103:PRO:HB3	10:k5:557:VAL:HG21	1.87	0.56
1:F5:106:GLU:HG3	9:z5:58:THR:CG2	2.36	0.56
1:H5:87:TYR:HE1	9:i5:20:GLY:HA2	1.71	0.56
2:C1:99:ALA:HB2	3:D1:9:ILE:CD1	2.36	0.56
2:C1:108:TYR:O	3:F1:75:PRO:HB2	2.06	0.56
12:d5:201:CYC:HB	12:d5:201:CYC:HMA2	1.69	0.56
12:e5:201:CYC:HC	12:e5:201:CYC:HMD3	1.70	0.56
8:Q5:4:LEU:O	8:Q5:8:ILE:HG13	2.05	0.56
12:Y5:201:CYC:HC	12:Y5:201:CYC:HMD3	1.70	0.56
6:M6:45:ILE:HD11	8:c7:78:THR:CG2	2.36	0.56
6:M6:258:VAL:O	6:M6:258:VAL:HG23	2.05	0.56
6:M6:271:VAL:HG13	1:d7:124:ALA:HB1	1.87	0.56
8:A7:62:ARG:O	8:A7:65:VAL:HG22	2.06	0.56
10:j5:207:ARG:HG3	10:j5:224:SER:HA	1.88	0.56
10:j5:1153:VAL:O	10:j5:1153:VAL:HG12	2.05	0.56
12:j5:1202:CYC:HB	12:j5:1202:CYC:CMA	1.99	0.56
10:k5:357:LEU:HD21	10:k5:382:ILE:HG12	1.86	0.56
10:k5:489:ASN:C	10:k5:490:SER:OG	2.38	0.56
2:G6:99:ALA:HB2	3:H6:9:ILE:CD1	2.36	0.56
8:C7:29:PHE:CZ	8:C7:98:ALA:C	2.76	0.56
8:G7:120:GLN:CG	1:L7:53:LYS:HZ1	2.19	0.56
8:K7:25:ARG:CB	8:U7:25:ARG:NH2	2.67	0.56
12:N7:201:CYC:HB	12:N7:201:CYC:HMA2	1.69	0.56
8:i7:50:ILE:HA	8:i7:136:VAL:CG1	2.34	0.56
8:U7:107:ILE:HD13	1:V7:13:ASP:CG	2.30	0.56
12:V7:201:CYC:HBB2	9:w7:21:ARG:HA	1.88	0.56
8:c7:24:ASP:OD2	8:m7:36:ARG:NH1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:e7:65:VAL:HG23	8:e7:66:VAL:N	2.21	0.56
8:u7:2:SER:CB	1:v7:5:ILE:CG2	2.80	0.56
12:u7:201:CYC:HC	12:u7:201:CYC:HMD3	1.70	0.56
12:U8:201:CYC:HC	12:U8:201:CYC:CMD	2.18	0.56
3:F8:84:ARG:NH2	11:a9:143:SER:CB	2.66	0.56
12:M8:302:CYC:CMD	12:M8:302:CYC:HC	2.18	0.56
5:N9:61:LYS:CD	12:T9:301:CYC:CBB	2.83	0.56
5:Z8:37:HIS:NE2	12:Z8:301:CYC:NA	2.52	0.56
3:D9:127:VAL:HG22	12:D9:201:CYC:H3C	1.86	0.56
3:F9:142:VAL:O	12:F9:303:CYC:CMC	2.54	0.56
12:F9:301:CYC:CMD	12:F9:301:CYC:HC	2.18	0.56
3:H9:2:GLN:HG2	3:H9:6:THR:HG22	1.86	0.56
2:G1:99:ALA:HB2	3:H1:9:ILE:CD1	2.36	0.56
11:a9:245:ALA:HB2	12:a9:901:CYC:CAB	2.35	0.56
11:aA:93:LEU:HD21	11:aA:252:ARG:HH12	1.65	0.56
11:aA:521:PHE:C	11:aA:521:PHE:CD1	2.84	0.56
2:K1:99:ALA:HB2	3:L1:9:ILE:CD1	2.36	0.56
5:N1:36:THR:HB	3:T1:84:ARG:CZ	2.36	0.56
2:U1:108:TYR:O	3:Z1:75:PRO:HB2	2.06	0.56
12:X1:201:CYC:HC	12:X1:201:CYC:CMD	2.18	0.56
2:AA:108:TYR:O	3:DA:75:PRO:HB2	2.06	0.56
3:BA:2:GLN:HG2	3:BA:6:THR:HG22	1.86	0.56
2:IA:23:GLU:HA	2:IA:23:GLU:OE2	2.06	0.56
3:JA:106:GLU:HB3	11:aA:556:LEU:HD21	1.88	0.56
2:KA:99:ALA:HB2	3:LA:9:ILE:CD1	2.36	0.56
2:OA:63:PHE:HB3	2:OA:66:LEU:HG	1.88	0.56
2:UA:99:ALA:HB2	3:VA:9:ILE:CD1	2.36	0.56
12:VA:201:CYC:HC	12:VA:201:CYC:CMD	2.18	0.56
2:Q1:99:ALA:HB2	3:R1:9:ILE:CD1	2.36	0.56
12:A1:201:CYC:HB	12:A1:201:CYC:CMA	2.17	0.56
3:H3:78:ARG:CZ	11:a9:623:ASP:CB	2.63	0.56
12:B3:202:CYC:HMA1	11:a9:684:ASN:ND2	2.21	0.56
12:Z3:201:CYC:HC	12:Z3:201:CYC:CMD	2.18	0.56
3:B4:117:TYR:CD1	4:M4:53:LEU:HD13	2.41	0.56
12:L3:202:CYC:CMD	12:L3:202:CYC:HC	2.18	0.56
4:M3:260:ARG:HH11	4:M3:260:ARG:CG	2.18	0.56
3:W4:75:PRO:HB2	2:X4:108:TYR:O	2.06	0.56
2:E4:99:ALA:HB2	3:F4:9:ILE:CD1	2.36	0.56
12:H4:202:CYC:CMA	12:H4:202:CYC:HB	2.18	0.56
3:L4:68:ARG:HH11	11:aA:75:ALA:CB	2.17	0.56
4:M4:192:GLN:O	4:M4:192:GLN:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:233:GLU:OE2	4:M4:268:ARG:NH1	2.39	0.56
2:N4:108:TYR:O	3:Q4:75:PRO:HB2	2.06	0.56
8:M5:65:VAL:HG23	8:M5:66:VAL:N	2.21	0.56
8:O5:76:LYS:C	8:O5:78:THR:N	2.64	0.56
1:X5:64:ASP:HB3	10:j5:704:THR:HG21	1.88	0.56
8:Y5:120:GLN:CG	1:b5:53:LYS:HZ1	2.18	0.56
1:b5:114:GLU:CA	10:k5:491:THR:HG23	2.35	0.56
10:j5:284:PRO:CG	10:j5:326:GLY:HA2	2.19	0.56
10:j5:286:VAL:CB	10:j5:293:LYS:HE2	2.36	0.56
10:j5:755:GLN:HB3	10:j5:879:ASP:CB	2.36	0.56
10:j5:862:LEU:O	10:j5:862:LEU:HD12	2.06	0.56
10:k5:1105:ILE:CD1	10:k5:1115:ARG:HH21	2.12	0.56
1:B7:136:VAL:CB	11:a9:563:PHE:CZ	2.89	0.56
8:M7:41:GLN:NE2	3:H9:125:ARG:HE	2.04	0.56
12:M7:201:CYC:HC	12:M7:201:CYC:HMD3	1.70	0.56
8:c7:8:ILE:CG2	1:d7:94:TYR:HB3	2.36	0.56
2:E1:99:ALA:HB2	3:F1:9:ILE:CD1	2.36	0.56
2:A8:63:PHE:HB3	2:A8:66:LEU:HG	1.88	0.56
8:o7:2:SER:HB3	1:p7:5:ILE:HG21	1.83	0.56
8:u7:17:TYR:CD2	1:v7:93:THR:CB	2.89	0.56
2:X8:16:GLY:HA2	4:M8:228:SER:HB3	1.82	0.56
2:O9:108:TYR:O	3:R9:75:PRO:HB2	2.06	0.56
2:A9:99:ALA:HB2	3:B9:9:ILE:CD1	2.36	0.56
12:B9:201:CYC:HC	12:B9:201:CYC:CMD	2.18	0.56
3:F9:2:GLN:HG2	3:F9:6:THR:HG22	1.86	0.56
2:G1:108:TYR:O	3:L1:75:PRO:HB2	2.06	0.56
11:a9:25:GLU:C	11:a9:27:PHE:H	2.14	0.56
11:aA:38:VAL:CG1	11:aA:39:PRO:HD2	2.36	0.56
11:aA:620:ALA:O	3:H1:70:GLY:CA	2.53	0.56
4:M1:192:GLN:O	4:M1:192:GLN:HG3	2.05	0.56
3:V1:75:PRO:HB2	2:W1:108:TYR:O	2.06	0.56
3:B2:2:GLN:HG2	3:B2:6:THR:HG22	1.86	0.56
2:E2:99:ALA:HB2	3:F2:9:ILE:CD1	2.36	0.56
1:Z:18:TYR:CZ	8:e5:90:ARG:HA	2.41	0.56
2:AA:99:ALA:HB2	3:BA:9:ILE:CD1	2.36	0.56
2:CA:99:ALA:HB2	3:DA:9:ILE:CD1	2.36	0.56
3:HA:75:PRO:HB2	2:IA:108:TYR:O	2.06	0.56
3:HA:120:LEU:HD13	12:HA:202:CYC:HAA2	1.83	0.56
3:LA:109:CYS:O	11:aA:532:ALA:CB	2.50	0.56
2:OA:108:TYR:O	3:RA:75:PRO:HB2	2.06	0.56
2:SA:99:ALA:HB2	3:TA:9:ILE:CD1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P1:75:PRO:HB2	2:S1:108:TYR:O	2.06	0.56
12:H2:201:CYC:O2A	6:M2:115:TYR:HD2	1.88	0.56
2:A4:99:ALA:HB2	3:B4:9:ILE:CD1	2.36	0.56
5:N3:36:THR:HB	3:T3:84:ARG:CZ	2.36	0.56
12:R3:201:CYC:HC	12:R3:201:CYC:CMD	2.18	0.56
12:R3:202:CYC:HC	12:R3:202:CYC:HMD2	1.70	0.56
3:H4:75:PRO:HB2	2:I4:108:TYR:O	2.06	0.56
4:M4:100:SER:CA	3:Q4:1:MET:HE2	2.36	0.56
1:L5:49:THR:HG22	8:U5:161:GLN:NE2	2.21	0.56
5:Z4:41:GLN:CD	12:Z4:301:CYC:HBB2	2.29	0.56
12:Z4:301:CYC:CMD	12:Z4:301:CYC:HC	2.19	0.56
12:c5:201:CYC:HC	12:c5:201:CYC:HMD3	1.70	0.56
8:Q5:17:TYR:CD2	1:R5:44:ILE:HG22	2.40	0.56
1:b5:9:ILE:HG21	10:k5:17:PHE:CZ	2.41	0.56
6:M6:127:SER:CB	12:F6:201:CYC:O2A	2.54	0.56
10:j5:246:VAL:CG2	10:j5:257:THR:CG2	2.83	0.56
10:j5:298:ARG:HG2	10:j5:298:ARG:HH11	1.71	0.56
10:j5:1008:PHE:CD1	12:v7:201:CYC:OB	2.59	0.56
10:k5:755:GLN:HB3	10:k5:879:ASP:CB	2.36	0.56
10:k5:1146:THR:HB	1:p7:77:ARG:CZ	2.23	0.56
10:k5:1153:VAL:O	10:k5:1153:VAL:HG12	2.05	0.56
3:H6:75:PRO:HB2	2:I6:108:TYR:O	2.06	0.56
12:D1:202:CYC:CMD	12:D1:202:CYC:HC	2.18	0.56
8:C7:15:ALA:HB1	1:D7:90:ARG:HH22	1.70	0.56
8:U7:52:LYS:NZ	11:a9:29:ARG:NH1	2.53	0.56
8:a7:37:LEU:HA	8:a7:97:VAL:HG12	1.88	0.56
8:a7:63:PRO:CB	11:a9:333:GLN:O	2.54	0.56
12:d7:201:CYC:HMA2	12:d7:201:CYC:HB	1.69	0.56
12:B8:202:CYC:O2D	4:M8:50:ASP:HA	2.05	0.56
2:C8:99:ALA:HB2	3:D8:9:ILE:CD1	2.36	0.56
1:n7:75:THR:HG22	8:o7:115:MET:SD	2.46	0.56
8:o7:90:ARG:CB	1:p7:18:TYR:CE2	2.88	0.56
8:u7:80:LEU:HD12	12:u7:201:CYC:HAD1	1.86	0.56
2:I8:14:SER:CB	11:a9:170:PHE:CE2	2.89	0.56
4:M8:139:VAL:HG23	4:M8:216:ASN:CA	2.22	0.56
4:M8:228:SER:HA	3:Y8:88:ILE:CD1	2.33	0.56
3:L9:9:ILE:CD1	2:K9:99:ALA:HB2	2.36	0.56
3:L9:75:PRO:HB2	2:G9:108:TYR:O	2.06	0.56
12:L9:202:CYC:HC	12:L9:202:CYC:CMD	2.18	0.56
12:P9:202:CYC:CMA	12:P9:202:CYC:HB	2.18	0.56
3:H9:126:SER:HB3	12:H9:202:CYC:HMC1	1.59	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S9:99:ALA:HB2	3:T9:9:ILE:CD1	2.36	0.56
11:a9:56:ILE:O	11:a9:56:ILE:CG2	2.54	0.56
11:a9:346:TYR:C	11:a9:346:TYR:CD1	2.84	0.56
11:a9:587:THR:OG1	11:a9:588:VAL:HG23	2.05	0.56
11:aA:588:VAL:CA	11:aA:590:PRO:CD	2.84	0.56
11:aA:798:SER:C	11:aA:800:THR:H	2.14	0.56
12:H1:201:CYC:CMD	12:H1:201:CYC:HC	2.18	0.56
12:H1:202:CYC:HB	12:H1:202:CYC:CMA	2.18	0.56
12:BA:201:CYC:CMD	12:BA:201:CYC:HC	2.18	0.55
3:DA:2:GLN:HG2	3:DA:6:THR:HG22	1.86	0.55
3:JA:75:PRO:HB2	2:KA:108:TYR:O	2.06	0.55
3:LA:89:ILE:HB	3:LA:134:MET:HE1	1.88	0.55
4:MA:181:GLN:O	4:MA:181:GLN:HG3	2.03	0.55
3:XA:75:PRO:HB2	2:YA:108:TYR:O	2.06	0.55
2:G3:107:ASP:CG	3:L3:77:ARG:NH1	2.64	0.55
2:G3:107:ASP:CB	3:L3:77:ARG:CZ	2.84	0.55
12:J3:202:CYC:HC	12:J3:202:CYC:CMD	2.18	0.55
2:I2:99:ALA:HB2	3:J2:9:ILE:CD1	2.36	0.55
2:K2:99:ALA:HB2	3:L2:9:ILE:CD1	2.36	0.55
3:L2:2:GLN:HG2	3:L2:6:THR:HG22	1.86	0.55
3:B4:75:PRO:HB2	2:E4:108:TYR:O	2.06	0.55
12:X3:202:CYC:HC	12:X3:202:CYC:HMD2	1.70	0.55
3:L4:65:ASP:HB2	11:aA:82:GLN:NE2	2.21	0.55
4:M4:48:PRO:O	4:M4:48:PRO:HG2	2.06	0.55
3:Q4:117:TYR:CE1	5:Z4:39:PRO:HB2	2.41	0.55
8:G5:161:GLN:CG	1:T5:49:THR:HG21	2.36	0.55
8:W5:4:LEU:O	8:W5:8:ILE:HG13	2.05	0.55
8:W5:17:TYR:CD2	1:X5:93:THR:CB	2.89	0.55
8:Y5:62:ARG:O	8:Y5:65:VAL:HG22	2.05	0.55
8:A7:120:GLN:CG	1:F7:53:LYS:HZ1	2.15	0.55
9:i5:34:TYR:C	9:i5:34:TYR:CD1	2.83	0.55
10:j5:722:ILE:HD13	8:K7:82:LEU:HB2	1.89	0.55
8:I7:107:ILE:HD13	1:J7:13:ASP:CG	2.30	0.55
8:c7:46:ALA:HB3	8:c7:140:LEU:HD12	1.85	0.55
8:c7:53:GLN:HB2	8:c7:136:VAL:HG21	1.88	0.55
2:C8:108:TYR:O	3:F8:75:PRO:HB2	2.06	0.55
2:T8:99:ALA:HB2	3:U8:9:ILE:CD1	2.36	0.55
2:T8:115:GLU:OE2	3:Y8:84:ARG:NH2	2.28	0.55
2:G8:99:ALA:HB2	3:H8:9:ILE:CD1	2.36	0.55
3:J8:75:PRO:HB2	2:K8:108:TYR:O	2.06	0.55
3:O8:75:PRO:HB2	2:R8:108:TYR:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:O8:201:CYC:CMD	12:O8:201:CYC:HC	2.18	0.55
4:M9:224:PHE:O	4:M9:235:PHE:HE2	1.89	0.55
3:B9:75:PRO:HB2	2:E9:108:TYR:O	2.06	0.55
3:V9:75:PRO:HB2	2:W9:108:TYR:O	2.06	0.55
11:aA:426:ARG:HH21	11:aA:496:ARG:NE	2.04	0.55
11:aA:482:TYR:CD1	11:aA:482:TYR:C	2.84	0.55
4:M1:260:ARG:HH11	4:M1:260:ARG:CG	2.18	0.55
2:Y1:99:ALA:HB2	3:Z1:9:ILE:CD1	2.36	0.55
12:DA:201:CYC:CBB	4:MA:6:THR:HG21	2.36	0.55
2:IA:1:MET:CE	2:IA:108:TYR:CE1	2.83	0.55
2:IA:21:ASN:O	2:IA:22:THR:C	2.49	0.55
3:LA:2:GLN:HG2	3:LA:6:THR:HG22	1.86	0.55
4:MA:160:THR:HG21	4:MA:257:GLN:CB	2.30	0.55
2:QA:115:GLU:HB2	3:TA:80:ALA:HB1	1.88	0.55
3:TA:25:ASN:HA	2:X4:68:GLN:HG2	1.88	0.55
12:H3:202:CYC:CMD	12:H3:202:CYC:HC	2.18	0.55
3:J3:75:PRO:HB2	2:K3:108:TYR:O	2.06	0.55
3:J2:75:PRO:HB2	2:K2:108:TYR:O	2.06	0.55
6:M2:31:ASP:HB3	8:O5:82:LEU:HB2	1.87	0.55
3:Z3:119:ALA:HB3	4:M3:263:PRO:HB2	1.78	0.55
12:Z3:201:CYC:HMA1	4:M3:163:ASN:ND2	2.20	0.55
12:Z3:201:CYC:CMA	4:M3:163:ASN:HD21	2.19	0.55
12:B4:202:CYC:O2D	4:M4:50:ASP:HA	2.06	0.55
4:M3:224:PHE:O	4:M3:235:PHE:HE2	1.89	0.55
5:N3:29:HIS:NE2	12:T3:301:CYC:OB	2.40	0.55
2:O3:99:ALA:HB2	3:P3:9:ILE:CD1	2.36	0.55
2:O3:108:TYR:O	3:R3:75:PRO:HB2	2.06	0.55
3:U4:108:ARG:O	4:M4:246:ALA:CB	2.52	0.55
3:F4:108:ARG:HE	4:M4:9:GLN:CB	2.14	0.55
2:G4:99:ALA:HB2	3:H4:9:ILE:CD1	2.36	0.55
4:M4:15:PHE:CD1	4:M4:71:PRO:HA	2.38	0.55
4:M4:214:GLY:HA3	5:Z4:28:HIS:O	2.06	0.55
3:Y4:87:GLU:HB3	3:Y4:91:ARG:HH12	1.70	0.55
1:B5:1:MET:O	10:k5:559:THR:HB	2.05	0.55
8:E5:123:ILE:O	8:E5:126:VAL:HB	2.07	0.55
8:G5:65:VAL:HG23	8:G5:66:VAL:N	2.21	0.55
1:J5:12:TYR:CE2	1:J5:23:ALA:HB2	2.40	0.55
8:e5:49:ARG:NH2	1:R5:50:THR:CG2	2.66	0.55
8:Q5:127:ALA:HB2	8:Q5:161:GLN:HE22	1.72	0.55
8:S5:65:VAL:HG23	8:S5:66:VAL:N	2.21	0.55
8:W5:18:LEU:HD22	1:X5:97:LEU:HD13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W5:123:ILE:O	8:W5:126:VAL:HB	2.06	0.55
2:K6:99:ALA:HB2	3:L6:9:ILE:CD1	2.36	0.55
9:z5:10:CYS:O	9:z5:49:GLY:CA	2.55	0.55
10:j5:1150:TYR:HE1	11:aA:38:VAL:HG13	1.70	0.55
10:k5:298:ARG:HG2	10:k5:298:ARG:HH11	1.71	0.55
10:k5:946:ASP:OD1	10:k5:946:ASP:N	2.38	0.55
3:F6:127:VAL:CA	12:F6:201:CYC:HMC2	2.36	0.55
12:D1:202:CYC:HMA2	4:M1:53:LEU:HA	1.88	0.55
12:C7:201:CYC:HC	12:C7:201:CYC:HMD3	1.70	0.55
8:M7:41:GLN:HE21	3:H9:125:ARG:NE	2.02	0.55
1:Z7:10:ASN:HD21	9:x7:65:THR:C	2.15	0.55
1:Z7:67:ARG:HD3	11:a9:311:LEU:CG	2.35	0.55
8:c7:88:TYR:HB3	8:c7:156:LEU:HD13	1.87	0.55
9:x7:29:THR:HG22	9:x7:29:THR:O	2.06	0.55
2:X8:68:GLN:HG2	3:T9:25:ASN:HA	1.88	0.55
4:M8:96:LYS:HZ3	3:Q8:113:LEU:HD22	1.71	0.55
4:M8:200:ILE:HG22	5:Z8:52:ARG:NH2	2.20	0.55
2:N8:63:PHE:HB3	2:N8:66:LEU:HG	1.88	0.55
3:F1:2:GLN:HG2	3:F1:6:THR:HG22	1.86	0.55
12:F1:201:CYC:CBB	4:M1:38:PRO:HD3	2.35	0.55
4:M9:6:THR:HG21	12:D9:201:CYC:CBB	2.36	0.55
5:N9:62:ARG:NE	2:S9:14:SER:CA	2.56	0.55
2:O9:63:PHE:HB3	2:O9:66:LEU:HG	1.88	0.55
2:G9:99:ALA:HB2	3:H9:9:ILE:CD1	2.36	0.55
11:a9:25:GLU:O	11:a9:27:PHE:N	2.40	0.55
11:a9:67:GLN:C	11:a9:68:THR:CG2	2.79	0.55
11:a9:823:ILE:O	11:a9:823:ILE:HG23	2.04	0.55
11:aA:629:LYS:CE	11:aA:629:LYS:CA	2.84	0.55
11:aA:707:PHE:CE2	3:L1:108:ARG:CZ	2.87	0.55
11:aA:802:ARG:HB2	3:J1:120:LEU:HD23	1.87	0.55
3:B2:75:PRO:HB2	2:E2:108:TYR:O	2.06	0.55
3:D2:2:GLN:HG2	3:D2:6:THR:HG22	1.86	0.55
1:A:76:ARG:HA	10:k5:261:ILE:HD11	1.88	0.55
1:A:76:ARG:N	10:k5:261:ILE:HD11	2.22	0.55
2:QA:68:GLN:HG3	2:QA:69:PRO:CD	2.36	0.55
2:QA:81:LYS:CE	3:TA:67:ILE:CD1	2.83	0.55
3:H2:75:PRO:HB2	2:I2:108:TYR:O	2.06	0.55
3:H2:120:LEU:C	6:M2:251:LYS:HZ3	2.14	0.55
12:B3:202:CYC:HMA2	11:a9:684:ASN:HD22	1.71	0.55
12:Z3:202:CYC:CMA	12:Z3:202:CYC:HB	2.18	0.55
12:W4:201:CYC:HC	12:W4:201:CYC:CMD	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F4:110:LEU:HD21	3:F4:167:ALA:HA	1.88	0.55
3:H4:119:ALA:CA	11:aA:266:ASN:HD22	2.13	0.55
12:J4:202:CYC:CMA	12:J4:202:CYC:HB	2.18	0.55
4:M4:27:HIS:HD1	4:M4:35:THR:H	1.25	0.55
2:N4:99:ALA:HB2	3:O4:9:ILE:CD1	2.36	0.55
3:Q4:72:ASN:CG	12:Z4:301:CYC:CMD	2.57	0.55
3:Q4:124:THR:HB	3:Q4:172:ALA:HA	1.89	0.55
12:H5:201:CYC:C4B	9:i5:23:LEU:HB2	2.36	0.55
1:f5:27:LEU:CD1	10:j5:172:LEU:HD22	2.36	0.55
8:U5:83:ARG:NE	6:M6:27:ALA:C	2.61	0.55
12:V5:201:CYC:NB	10:j5:649:PHE:CZ	2.74	0.55
10:j5:1005:LEU:CD1	10:j5:1016:LEU:CD2	2.82	0.55
10:j5:1035:PHE:C	10:j5:1035:PHE:CD1	2.84	0.55
10:j5:1119:LEU:HD13	1:t7:87:TYR:CE2	2.41	0.55
10:j5:1153:VAL:HG22	1:v7:125:ALA:HB1	1.77	0.55
10:k5:913:VAL:HG12	10:k5:913:VAL:O	2.06	0.55
2:A6:99:ALA:HB2	3:B6:9:ILE:CD1	2.36	0.55
8:g7:25:ARG:HE	8:u7:25:ARG:CZ	2.18	0.55
8:k7:62:ARG:O	8:k7:65:VAL:HG22	2.05	0.55
8:k7:65:VAL:HG23	8:k7:66:VAL:N	2.21	0.55
8:U7:29:PHE:CZ	8:U7:98:ALA:C	2.76	0.55
12:V7:201:CYC:HB	12:V7:201:CYC:HMA2	1.69	0.55
8:o7:90:ARG:HG3	1:p7:18:TYR:CD2	2.41	0.55
8:q7:65:VAL:HG23	8:q7:66:VAL:N	2.21	0.55
9:y7:23:LEU:HD12	9:y7:23:LEU:C	2.25	0.55
3:L8:78:ARG:NH2	11:a9:88:ALA:H	2.03	0.55
3:L8:109:CYS:HA	12:a9:901:CYC:HBB2	1.74	0.55
3:Q8:92:TYR:CE2	3:Q8:109:CYS:SG	2.98	0.55
2:U9:99:ALA:HB2	3:V9:9:ILE:CD1	2.36	0.55
11:a9:38:VAL:CG1	11:a9:39:PRO:HD2	2.36	0.55
11:a9:166:LYS:HE3	11:a9:209:TYR:CE1	2.42	0.55
11:a9:588:VAL:CA	11:a9:590:PRO:CD	2.84	0.55
11:a9:731:GLN:HG2	11:a9:817:LEU:HD21	1.88	0.55
11:aA:56:ILE:O	11:aA:56:ILE:CG2	2.54	0.55
11:aA:166:LYS:HE3	11:aA:209:TYR:CE1	2.42	0.55
11:aA:454:LEU:HD22	11:aA:535:ASP:OD2	2.00	0.55
3:J1:75:PRO:HB2	2:K1:108:TYR:O	2.06	0.55
4:M1:81:ASP:N	3:X1:111:ASN:HD21	2.02	0.55
2:U1:99:ALA:HB2	3:V1:9:ILE:CD1	2.36	0.55
2:EA:152:ALA:CB	2:IA:21:ASN:OD1	2.54	0.55
12:FA:301:CYC:HBA1	4:MA:53:LEU:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:48:PRO:HG2	4:MA:48:PRO:O	2.07	0.55
4:MA:164:ARG:NH1	4:MA:259:ARG:O	2.33	0.55
2:QA:33:ARG:CG	2:UA:25:GLN:CG	2.85	0.55
3:TA:24:LEU:CD2	2:X4:68:GLN:HE21	2.16	0.55
3:J3:84:ARG:CZ	11:a9:668:TYR:HB3	2.36	0.55
12:J3:201:CYC:CMA	12:J3:201:CYC:HB	2.18	0.55
2:K3:19:LEU:HD13	3:L3:98:LEU:HD22	1.89	0.55
3:B3:75:PRO:HB2	2:E3:108:TYR:O	2.06	0.55
2:C3:99:ALA:HB2	3:D3:9:ILE:CD1	2.36	0.55
2:C3:108:TYR:O	3:F3:75:PRO:HB2	2.06	0.55
5:N3:13:SER:HB3	5:N3:14:LYS:HD3	1.86	0.55
5:N3:66:ARG:HH11	3:R3:111:ASN:ND2	1.96	0.55
3:V3:75:PRO:HB2	2:W3:108:TYR:O	2.06	0.55
2:G4:108:TYR:O	3:L4:75:PRO:HB2	2.06	0.55
2:K4:19:LEU:HD13	3:L4:98:LEU:HD22	1.89	0.55
3:L4:78:ARG:NH2	11:aA:88:ALA:H	2.03	0.55
2:N4:115:GLU:OE1	3:Q4:84:ARG:NH2	2.39	0.55
12:L5:201:CYC:HMA3	10:j5:591:ILE:HG23	1.88	0.55
1:D5:71:MEN:O	1:D5:77:ARG:NH1	2.39	0.55
1:H5:76:ARG:CD	9:i5:14:LEU:O	2.55	0.55
8:c5:65:VAL:HG23	8:c5:66:VAL:N	2.20	0.55
12:P5:201:CYC:HB	12:P5:201:CYC:HMA2	1.69	0.55
8:S5:65:VAL:HG23	8:S5:66:VAL:HG23	1.89	0.55
8:U5:29:PHE:CZ	8:U5:98:ALA:C	2.76	0.55
8:A7:104:ILE:HG23	8:A7:156:LEU:HD21	1.89	0.55
10:j5:182:ASN:CB	12:j5:1201:CYC:HAB2	2.36	0.55
10:j5:647:ARG:HG2	10:j5:647:ARG:O	2.05	0.55
10:j5:1077:ILE:O	12:r7:201:CYC:HBA1	2.06	0.55
10:k5:307:ARG:HH12	10:k5:346:GLU:CD	2.10	0.55
10:k5:320:GLU:HG2	10:k5:320:GLU:O	2.06	0.55
10:k5:743:VAL:CB	12:D7:201:CYC:O2D	2.50	0.55
10:k5:820:HIS:CD2	10:k5:820:HIS:C	2.80	0.55
10:k5:1105:ILE:HD13	10:k5:1115:ARG:NH2	2.15	0.55
10:k5:1109:ASP:OD1	10:k5:1109:ASP:N	2.36	0.55
12:L7:201:CYC:HMA2	12:L7:201:CYC:HB	1.69	0.55
8:M7:65:VAL:HG23	8:M7:66:VAL:N	2.21	0.55
8:W7:123:ILE:O	8:W7:126:VAL:HB	2.06	0.55
1:b7:75:THR:O	8:c7:111:GLY:HA3	2.05	0.55
8:c7:20:PRO:CD	8:m7:155:TYR:CG	2.90	0.55
1:f7:10:ASN:CB	9:y7:65:THR:HG1	2.14	0.55
8:m7:15:ALA:CB	1:n7:90:ARG:NH2	2.68	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:q7:49:ARG:NH2	3:H1:62:GLU:CD	2.64	0.55
8:u7:80:LEU:CD1	12:u7:201:CYC:CAD	2.82	0.55
12:M8:302:CYC:C1D	3:S8:77:ARG:HH12	2.19	0.55
12:M8:302:CYC:HAC1	3:S8:81:ALA:HB3	1.89	0.55
2:Q9:108:TYR:O	3:T9:75:PRO:HB2	2.06	0.55
2:E9:99:ALA:HB2	3:F9:9:ILE:CD1	2.36	0.55
12:J9:202:CYC:HBB3	11:a9:516:GLN:HG2	1.85	0.55
2:Y9:19:LEU:HD13	3:Z9:98:LEU:HD22	1.89	0.55
2:Y9:99:ALA:HB2	3:Z9:9:ILE:CD1	2.36	0.55
11:a9:426:ARG:HH21	11:a9:496:ARG:NE	2.04	0.55
11:a9:820:GLY:O	11:a9:821:ARG:O	2.24	0.55
11:aA:601:ALA:HB1	11:aA:602:PRO:CD	2.35	0.55
11:aA:640:ALA:HB2	11:aA:770:TYR:CE2	2.41	0.55
11:aA:813:PRO:C	3:L1:119:ALA:HB2	2.27	0.55
2:A2:63:PHE:HB3	2:A2:66:LEU:HG	1.88	0.55
2:A2:99:ALA:HB2	3:B2:9:ILE:CD1	2.36	0.55
1:Z:16:GLY:O	8:e5:90:ARG:NE	2.39	0.55
2:QA:69:PRO:HB3	2:U1:47:ASN:CA	2.21	0.55
2:QA:69:PRO:HD3	2:U1:46:SER:CA	2.35	0.55
2:SA:42:ARG:NE	2:X4:69:PRO:N	2.54	0.55
2:S1:99:ALA:HB2	3:T1:9:ILE:CD1	2.36	0.55
2:G3:99:ALA:HB2	3:H3:9:ILE:CD1	2.36	0.55
3:H3:5:PHE:CZ	3:H3:30:LEU:HD22	2.42	0.55
3:H3:75:PRO:HB2	2:I3:108:TYR:O	2.06	0.55
2:I3:19:LEU:HD13	3:J3:98:LEU:HD22	1.89	0.55
2:G2:99:ALA:HB2	3:H2:9:ILE:CD1	2.36	0.55
3:B3:127:VAL:HG22	12:B3:202:CYC:CMC	2.37	0.55
2:C3:19:LEU:HD13	3:D3:98:LEU:HD22	1.89	0.55
3:B1:68:ARG:NH1	3:V1:68:ARG:HH22	2.04	0.55
12:H4:201:CYC:CBB	11:aA:259:ALA:CB	2.79	0.55
4:M4:113:ILE:CD1	4:M4:143:VAL:HA	2.36	0.55
8:G5:116:TYR:HE1	12:G5:201:CYC:HD	1.54	0.55
1:J5:71:MEN:O	1:J5:77:ARG:NH1	2.39	0.55
1:T5:87:TYR:CZ	10:j5:483:PHE:CE2	2.95	0.55
8:W5:127:ALA:HB2	8:W5:161:GLN:HE22	1.72	0.55
6:M6:117:MET:HE3	3:H6:77:ARG:CD	2.37	0.55
9:z5:8:THR:CB	9:z5:52:LEU:HB2	2.36	0.55
9:z5:16:ARG:HE	9:z5:16:ARG:CA	2.20	0.55
9:z5:24:GLN:O	9:z5:25:ASN:C	2.31	0.55
9:z5:56:LEU:O	9:z5:58:THR:N	2.30	0.55
10:j5:411:TYR:CD1	10:j5:411:TYR:C	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:544:VAL:HG13	10:j5:564:VAL:HG21	1.87	0.55
10:j5:723:GLN:HE21	10:j5:723:GLN:CA	2.18	0.55
10:j5:769:THR:O	10:j5:769:THR:OG1	2.19	0.55
10:k5:207:ARG:HG3	10:k5:224:SER:HA	1.88	0.55
10:k5:230:VAL:O	10:k5:234:LEU:CD1	2.55	0.55
2:E6:99:ALA:HB2	3:F6:9:ILE:CD1	2.36	0.55
3:F6:5:PHE:CZ	3:F6:30:LEU:HD22	2.42	0.55
12:G7:201:CYC:HC	12:G7:201:CYC:HMD3	1.70	0.55
8:I7:15:ALA:HB1	1:J7:90:ARG:HH22	1.70	0.55
8:M7:65:VAL:HG23	8:M7:66:VAL:HG23	1.89	0.55
1:d7:76:ARG:NH1	9:x7:3:ARG:HH22	2.05	0.55
8:o7:90:ARG:HG3	1:p7:18:TYR:CG	2.42	0.55
8:q7:79:ALA:CB	11:aA:53:VAL:CG2	2.70	0.55
2:K8:99:ALA:HB2	3:L8:9:ILE:CD1	2.36	0.55
4:M8:91:VAL:O	4:M8:91:VAL:HG12	2.06	0.55
4:M8:197:ASP:OD1	5:Z8:52:ARG:NE	2.39	0.55
2:O9:99:ALA:HB2	3:P9:9:ILE:CD1	2.36	0.55
2:E9:152:ALA:CB	2:I9:21:ASN:OD1	2.54	0.55
2:G1:107:ASP:CB	3:L1:77:ARG:CZ	2.85	0.55
11:aA:283:GLN:CG	11:aA:284:PRO:CD	2.80	0.55
2:I1:99:ALA:HB2	3:J1:9:ILE:CD1	2.36	0.55
4:M1:17:VAL:HG12	4:M1:18:THR:N	2.22	0.55
4:M1:224:PHE:O	4:M1:235:PHE:HE2	1.89	0.55
2:W1:99:ALA:HB2	3:X1:9:ILE:CD1	2.36	0.55
2:A2:108:TYR:O	3:D2:75:PRO:HB2	2.06	0.55
2:AA:65:TYR:O	2:AA:71:GLN:CG	2.54	0.55
2:CA:108:TYR:O	3:FA:75:PRO:HB2	2.06	0.55
2:WA:19:LEU:HD13	3:XA:98:LEU:HD22	1.89	0.55
3:R1:5:PHE:CZ	3:R1:30:LEU:HD22	2.42	0.55
3:H3:68:ARG:HD2	11:a9:615:ARG:O	2.01	0.55
6:M2:50:LEU:HD21	8:i7:79:ALA:O	2.00	0.55
3:Z3:9:ILE:CD1	2:Y3:99:ALA:HB2	2.36	0.55
3:Z3:75:PRO:HB2	2:U3:108:TYR:O	2.06	0.55
3:D4:107:ASP:OD2	11:aA:109:ASN:OD1	2.16	0.55
3:L3:77:ARG:HD2	11:a9:823:ILE:HD13	1.87	0.55
3:L3:116:THR:OG1	11:a9:713:ASN:ND2	2.40	0.55
4:M3:17:VAL:HG12	4:M3:18:THR:N	2.22	0.55
3:P3:5:PHE:CZ	3:P3:30:LEU:HD22	2.42	0.55
2:Q3:108:TYR:O	3:T3:75:PRO:HB2	2.06	0.55
3:U4:5:PHE:CZ	3:U4:30:LEU:HD22	2.42	0.55
4:M4:27:HIS:ND1	4:M4:34:ASP:C	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:162:ASN:O	4:M4:166:THR:CG2	2.51	0.55
1:D5:12:TYR:CE2	1:D5:23:ALA:HB2	2.40	0.55
8:G5:104:ILE:HG23	8:G5:156:LEU:HD21	1.89	0.55
12:I5:201:CYC:HC	12:I5:201:CYC:HMD3	1.70	0.55
3:J6:9:ILE:CD1	2:I6:99:ALA:HB2	2.36	0.55
3:J6:108:ARG:HH22	6:M6:155:ASN:CG	2.15	0.55
8:A7:37:LEU:HD22	1:B7:24:LEU:HD22	1.89	0.55
9:z5:56:LEU:C	9:z5:58:THR:N	2.61	0.55
10:j5:283:ARG:HD3	10:j5:283:ARG:O	2.06	0.55
10:j5:799:GLU:O	9:w7:30:LYS:HA	2.06	0.55
10:k5:930:LEU:CA	1:D7:33:THR:HG21	2.32	0.55
8:S7:104:ILE:HG23	8:S7:156:LEU:HD21	1.89	0.55
12:H7:201:CYC:HB	12:H7:201:CYC:CMA	1.99	0.55
8:U7:15:ALA:CB	9:w7:20:GLY:HA2	2.37	0.55
1:l7:17:LYS:HG2	11:a9:43:GLU:HG3	1.89	0.55
8:o7:2:SER:HB3	1:p7:5:ILE:HG22	1.87	0.55
2:T8:108:TYR:O	3:Y8:75:PRO:HB2	2.06	0.55
4:M8:104:ALA:HB1	2:P8:14:SER:N	1.93	0.55
2:N8:115:GLU:OE1	5:Z8:32:PRO:CD	2.49	0.55
4:M9:185:ALA:CA	12:V9:201:CYC:HBA2	2.37	0.55
4:M9:185:ALA:CA	12:V9:201:CYC:CBA	2.82	0.55
4:M9:233:GLU:OE2	4:M9:268:ARG:NH1	2.39	0.55
3:P9:75:PRO:HB2	2:S9:108:TYR:O	2.06	0.55
2:A9:108:TYR:O	3:D9:75:PRO:HB2	2.06	0.55
3:V9:5:PHE:CZ	3:V9:30:LEU:HD22	2.42	0.55
11:a9:456:PHE:CD1	11:a9:462:ARG:NH1	2.75	0.55
11:aA:456:PHE:CD1	11:aA:462:ARG:NH1	2.75	0.55
3:H1:5:PHE:CZ	3:H1:30:LEU:HD22	2.42	0.55
3:H1:75:PRO:HB2	2:I1:108:TYR:O	2.06	0.55
2:K1:19:LEU:HD13	3:L1:98:LEU:HD22	1.89	0.55
12:V1:202:CYC:CMA	12:V1:202:CYC:HB	2.18	0.55
2:C2:99:ALA:HB2	3:D2:9:ILE:CD1	2.36	0.55
1:A:127:VAL:HG11	1:R5:15:GLN:HB3	1.87	0.55
3:DA:68:ARG:NH1	3:XA:68:ARG:HH12	2.04	0.55
2:GA:119:THR:CG2	3:LA:83:LEU:HD13	2.34	0.55
12:HA:202:CYC:CMD	12:HA:202:CYC:HC	2.18	0.55
2:IA:148:THR:HG21	12:F9:302:CYC:HMB3	1.89	0.55
12:LA:202:CYC:CMD	12:LA:202:CYC:HC	2.18	0.55
4:MA:209:TYR:C	4:MA:209:TYR:CD1	2.85	0.55
4:MA:224:PHE:O	4:MA:235:PHE:HE2	1.89	0.55
4:MA:233:GLU:OE2	4:MA:268:ARG:NH1	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:274:VAL:CG1	2:WA:111:ALA:CB	2.68	0.55
2:QA:22:THR:O	2:UA:4:VAL:HG22	2.07	0.55
2:UA:108:TYR:O	3:ZA:75:PRO:HB2	2.06	0.55
3:ZA:5:PHE:CZ	3:ZA:30:LEU:HD22	2.42	0.55
2:G3:19:LEU:HD13	3:H3:98:LEU:HD22	1.89	0.55
2:G3:108:TYR:O	3:L3:75:PRO:HB2	2.06	0.55
12:H3:202:CYC:HMA2	11:a9:776:TYR:HB3	1.89	0.55
3:H2:84:ARG:O	3:H2:87:GLU:N	2.40	0.55
6:M2:57:GLU:OE1	8:i7:76:LYS:NZ	2.33	0.55
2:A3:99:ALA:HB2	3:B3:9:ILE:CD1	2.36	0.55
3:L3:104:VAL:HG12	3:L3:108:ARG:NH1	2.21	0.55
5:N3:37:HIS:O	5:N3:38:GLU:C	2.49	0.55
2:E4:19:LEU:HD13	3:F4:98:LEU:HD22	1.89	0.55
3:H4:1:MET:H2	11:aA:96:THR:CG2	2.19	0.55
3:J4:108:ARG:NH2	11:aA:171:ARG:CA	2.69	0.55
4:M4:128:ALA:O	4:M4:142:PHE:CZ	2.46	0.55
8:O5:20:PRO:HB3	8:E5:152:TYR:CZ	2.41	0.55
12:E5:201:CYC:HC	12:E5:201:CYC:HMD3	1.70	0.55
8:G5:119:LEU:HD21	12:G5:201:CYC:HAA2	1.89	0.55
8:e5:29:PHE:CZ	8:e5:98:ALA:C	2.76	0.55
1:f5:9:ILE:CG2	10:j5:17:PHE:HZ	2.19	0.55
1:f5:114:GLU:CA	10:j5:491:THR:CG2	2.84	0.55
8:U5:76:LYS:CG	8:U5:77:MET:H	2.19	0.55
3:J6:75:PRO:HB2	2:K6:108:TYR:O	2.06	0.55
7:N6:22:GLN:O	7:N6:37:SER:OG	2.24	0.55
10:j5:723:GLN:HE21	10:j5:723:GLN:HA	1.72	0.55
10:k5:879:ASP:OD1	10:k5:879:ASP:N	2.29	0.55
10:k5:1035:PHE:CD1	10:k5:1035:PHE:C	2.84	0.55
10:k5:1055:SER:HG	12:k5:1203:CYC:CBB	1.97	0.55
1:D7:75:THR:C	8:E7:111:GLY:HA3	2.32	0.55
1:h7:24:LEU:O	1:h7:24:LEU:HD23	2.06	0.55
8:i7:25:ARG:HH12	8:s7:6:LYS:CG	2.09	0.55
8:i7:46:ALA:HB2	8:i7:140:LEU:HD12	1.87	0.55
8:Y7:65:VAL:HG23	8:Y7:66:VAL:HG23	1.89	0.55
2:A8:65:TYR:O	2:A8:71:GLN:CG	2.54	0.55
3:U8:115:GLU:OE1	4:M8:74:LEU:HD12	1.99	0.55
2:V8:19:LEU:HD13	3:W8:98:LEU:HD22	1.89	0.55
2:X8:68:GLN:HE21	3:T9:24:LEU:CD2	2.16	0.55
3:F8:107:ASP:C	4:M8:8:SER:O	2.49	0.55
2:I8:99:ALA:HB2	3:J8:9:ILE:CD1	2.36	0.55
3:J8:5:PHE:CZ	3:J8:30:LEU:HD22	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M8:5:THR:C	4:M8:6:THR:HG1	2.05	0.55
3:Q8:81:ALA:HB2	5:Z8:36:THR:CB	2.36	0.55
3:L9:111:ASN:OD1	11:a9:366:LEU:HD12	2.05	0.55
4:M9:263:PRO:HG2	3:V9:115:GLU:O	2.07	0.55
4:M9:274:VAL:OXT	3:V9:77:ARG:NH2	2.40	0.55
2:A9:63:PHE:HB3	2:A9:66:LEU:HG	1.88	0.55
3:J9:110:LEU:C	11:a9:518:ALA:CB	2.80	0.55
3:T9:5:PHE:CZ	3:T9:30:LEU:HD22	2.42	0.55
11:a9:287:ALA:O	11:a9:288:ARG:CD	2.55	0.55
11:a9:450:ARG:NE	11:a9:543:GLN:OE1	2.38	0.55
11:a9:521:PHE:CD1	11:a9:521:PHE:C	2.84	0.55
3:B2:5:PHE:CZ	3:B2:30:LEU:HD22	2.42	0.55
1:Z:75:THR:HG1	10:j5:182:ASN:HA	1.71	0.55
4:MA:158:PHE:CE2	2:UA:10:ALA:HB1	2.41	0.55
4:MA:185:ALA:CA	12:VA:201:CYC:HBA2	2.37	0.55
4:MA:185:ALA:HB2	12:VA:201:CYC:O1A	2.04	0.55
2:YA:99:ALA:HB2	3:ZA:9:ILE:CD1	2.36	0.55
2:A1:63:PHE:HB3	2:A1:66:LEU:HG	1.88	0.55
2:I3:99:ALA:HB2	3:J3:9:ILE:CD1	2.36	0.55
2:G2:113:LEU:HA	3:L2:76:ASN:HD22	1.62	0.55
3:H2:14:LEU:HD21	6:M2:69:ALA:N	2.22	0.55
3:B4:5:PHE:CZ	3:B4:30:LEU:HD22	2.42	0.55
2:C4:19:LEU:HD13	3:D4:98:LEU:HD22	1.89	0.55
2:C4:99:ALA:HB2	3:D4:9:ILE:CD1	2.36	0.55
12:D4:202:CYC:CMD	12:D4:202:CYC:HC	2.18	0.55
3:L3:5:PHE:CZ	3:L3:30:LEU:HD22	2.42	0.55
4:M3:222:ARG:HH11	4:M3:222:ARG:CG	2.13	0.55
2:Q3:99:ALA:HB2	3:R3:9:ILE:CD1	2.36	0.55
3:V3:5:PHE:CZ	3:V3:30:LEU:HD22	2.42	0.55
2:V4:19:LEU:HD13	3:W4:98:LEU:HD22	1.89	0.55
3:F4:5:PHE:CZ	3:F4:30:LEU:HD22	2.42	0.55
3:F4:84:ARG:NH2	11:aA:143:SER:HB3	2.22	0.55
2:I4:99:ALA:HB2	3:J4:9:ILE:CD1	2.36	0.55
2:K4:99:ALA:HB2	3:L4:9:ILE:CD1	2.36	0.55
3:L4:5:PHE:CZ	3:L4:30:LEU:HD22	2.42	0.55
1:N5:110:ASN:ND2	10:k5:692:LEU:CB	2.12	0.55
2:X4:99:ALA:HB2	3:Y4:9:ILE:CD1	2.36	0.55
3:Y4:104:VAL:HA	3:Y4:108:ARG:HB3	1.88	0.55
2:C1:19:LEU:HD13	3:D1:98:LEU:HD22	1.89	0.55
8:c5:37:LEU:HD22	1:d5:24:LEU:HD22	1.89	0.55
8:Q5:17:TYR:CD2	1:R5:93:THR:CB	2.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a5:37:LEU:HA	8:a5:97:VAL:HG12	1.89	0.55
10:j5:192:LYS:HA	10:j5:192:LYS:HZ1	1.69	0.55
10:j5:971:VAL:O	10:j5:971:VAL:HG22	2.05	0.55
10:j5:1008:PHE:CZ	1:v7:83:ARG:NH1	2.74	0.55
10:k5:33:ARG:NH2	10:k5:39:GLU:OE2	2.40	0.55
10:k5:782:SER:OG	1:F7:83:ARG:HD2	2.07	0.55
10:k5:862:LEU:O	10:k5:862:LEU:HD12	2.06	0.55
2:E6:19:LEU:HD13	3:F6:98:LEU:HD22	1.89	0.55
3:H6:5:PHE:CZ	3:H6:30:LEU:HD22	2.42	0.55
3:D1:5:PHE:CZ	3:D1:30:LEU:HD22	2.42	0.55
8:Q7:22:GLU:N	8:C7:6:LYS:HZ3	2.05	0.55
8:S7:62:ARG:O	8:S7:65:VAL:HG22	2.06	0.55
8:C7:37:LEU:HA	8:C7:97:VAL:HG12	1.89	0.55
8:K7:104:ILE:HG23	8:K7:156:LEU:HD21	1.89	0.55
8:i7:53:GLN:HB2	8:i7:136:VAL:HG21	1.88	0.55
8:k7:37:LEU:HD22	1:l7:24:LEU:HD22	1.89	0.55
1:b7:24:LEU:HD23	1:b7:24:LEU:O	2.07	0.55
8:c7:89:LEU:HD13	8:c7:153:PHE:HZ	1.67	0.55
8:e7:62:ARG:O	8:e7:65:VAL:HG22	2.06	0.55
2:A8:108:TYR:O	3:D8:75:PRO:HB2	2.06	0.55
8:m7:90:ARG:CZ	1:n7:16:GLY:HA2	2.37	0.55
12:m7:201:CYC:HC	12:m7:201:CYC:HMD3	1.70	0.55
8:o7:123:ILE:O	8:o7:126:VAL:HB	2.07	0.55
8:q7:104:ILE:HG23	8:q7:156:LEU:HD21	1.89	0.55
1:r7:17:LYS:CE	11:aA:41:ASP:OD2	2.54	0.55
9:x7:28:PHE:N	9:x7:28:PHE:CD1	2.72	0.55
2:X8:99:ALA:HB2	3:Y8:9:ILE:CD1	2.36	0.55
2:N8:115:GLU:CD	5:Z8:31:TRP:HB3	2.31	0.55
3:L9:5:PHE:CZ	3:L9:30:LEU:HD22	2.42	0.55
4:M9:158:PHE:CE2	2:U9:10:ALA:HB1	2.41	0.55
3:Y8:88:ILE:O	3:Y8:92:TYR:CD2	2.60	0.55
2:C9:108:TYR:O	3:F9:75:PRO:HB2	2.06	0.55
3:H9:5:PHE:CZ	3:H9:30:LEU:HD22	2.42	0.55
3:J9:19:LEU:HD12	3:J9:24:LEU:HD21	1.89	0.55
3:X9:5:PHE:CZ	3:X9:30:LEU:HD22	2.42	0.55
2:G1:19:LEU:HD13	3:H1:98:LEU:HD22	1.89	0.55
11:a9:578:MET:HE3	11:a9:582:MET:CE	2.34	0.55
11:aA:91:THR:HG22	11:aA:96:THR:CA	2.21	0.55
11:aA:776:TYR:CD1	12:H1:201:CYC:NB	2.73	0.55
3:J1:5:PHE:CZ	3:J1:30:LEU:HD22	2.42	0.55
4:M1:95:ALA:HB2	5:N1:38:GLU:OE1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M1:181:GLN:O	4:M1:181:GLN:HG3	2.03	0.55
4:M1:233:GLU:OE2	4:M1:268:ARG:NH1	2.39	0.55
2:C2:108:TYR:O	3:F2:75:PRO:HB2	2.06	0.55
3:JA:65:ASP:HB2	11:aA:354:VAL:HG22	1.79	0.55
4:MA:17:VAL:HG12	4:MA:18:THR:N	2.22	0.55
4:MA:37:GLU:CD	4:MA:40:GLN:NE2	2.62	0.55
5:NA:54:LEU:HB3	12:TA:301:CYC:O2A	2.07	0.55
3:RA:5:PHE:CZ	3:RA:30:LEU:HD22	2.42	0.55
3:TA:25:ASN:CB	2:X4:64:PRO:C	2.54	0.55
2:WA:99:ALA:HB2	3:XA:9:ILE:CD1	2.36	0.55
2:YA:19:LEU:HD13	3:ZA:98:LEU:HD22	1.89	0.55
3:J3:77:ARG:CZ	2:K3:107:ASP:CB	2.85	0.55
3:B3:68:ARG:NH1	3:V3:68:ARG:HH22	2.04	0.55
2:W3:99:ALA:HB2	3:X3:9:ILE:CD1	2.36	0.55
3:S4:75:PRO:HB2	2:P4:108:TYR:O	2.06	0.55
2:T4:108:TYR:O	3:Y4:75:PRO:HB2	2.06	0.55
2:V4:99:ALA:HB2	3:W4:9:ILE:CD1	2.36	0.55
3:O4:75:PRO:HB2	2:R4:108:TYR:O	2.06	0.55
3:Q4:89:ILE:HG21	3:Q4:131:VAL:HG22	1.89	0.55
1:L5:82:ILE:HD12	8:G5:118:SER:HB2	1.86	0.55
8:M5:66:VAL:HG12	8:K7:68:PRO:HG3	1.80	0.55
1:D5:75:THR:HB	8:E5:112:VAL:CA	2.37	0.55
8:c5:104:ILE:HG23	8:c5:156:LEU:HD21	1.89	0.55
1:d5:107:ARG:HD2	10:j5:351:PHE:O	2.07	0.55
1:f5:30:TYR:CE2	10:j5:47:PHE:CZ	2.95	0.55
2:K6:19:LEU:HD13	3:L6:98:LEU:HD22	1.89	0.55
8:A7:65:VAL:HG23	8:A7:66:VAL:HG23	1.89	0.55
9:z5:6:LYS:CG	9:z5:55:LYS:CB	2.64	0.55
10:j5:20:VAL:O	10:j5:24:THR:CG2	2.51	0.55
10:j5:1118:THR:OG1	12:j5:1202:CYC:CGA	2.54	0.55
10:k5:66:MET:CE	10:k5:66:MET:CA	2.84	0.55
10:k5:822:ARG:CD	1:B7:106:GLU:OE2	2.55	0.55
12:k5:1202:CYC:HB	12:k5:1202:CYC:HMA3	1.72	0.55
12:k5:1204:CYC:HMA2	12:k5:1204:CYC:HB	1.70	0.55
2:C6:108:TYR:O	3:F6:75:PRO:HB2	2.06	0.55
1:B7:75:THR:HB	8:C7:111:GLY:C	2.32	0.55
12:J7:201:CYC:HB	12:J7:201:CYC:HMA2	1.69	0.55
8:U7:15:ALA:CB	1:V7:90:ARG:NH2	2.68	0.55
8:U7:37:LEU:HA	8:U7:97:VAL:HG12	1.88	0.55
8:U7:90:ARG:CZ	1:V7:16:GLY:HA2	2.37	0.55
8:W7:13:ALA:CA	9:w7:46:LYS:HD3	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W7:104:ILE:HG23	8:W7:156:LEU:HD21	1.89	0.55
8:c7:95:GLY:O	8:c7:152:TYR:CE2	2.54	0.55
12:f7:201:CYC:HMA2	12:f7:201:CYC:HB	1.69	0.55
1:l7:75:THR:HB	8:m7:111:GLY:C	2.32	0.55
8:s7:37:LEU:HA	8:s7:97:VAL:HG12	1.89	0.55
8:u7:123:ILE:O	8:u7:126:VAL:HB	2.07	0.55
9:y7:9:ALA:HB3	9:y7:44:ILE:HD11	1.89	0.55
2:V8:99:ALA:HB2	3:W8:9:ILE:CD1	2.36	0.55
3:F8:104:VAL:HA	3:F8:107:ASP:OD1	2.07	0.55
4:M8:61:ASN:OD1	4:M8:62:LYS:HG2	2.07	0.55
4:M8:192:GLN:O	4:M8:192:GLN:HG3	2.05	0.55
12:F1:202:CYC:CMA	12:F1:202:CYC:HB	2.18	0.55
4:M9:91:VAL:O	4:M9:91:VAL:HG12	2.06	0.55
3:D9:68:ARG:NH1	3:X9:68:ARG:HH12	2.04	0.55
2:E9:19:LEU:HD13	3:F9:98:LEU:HD22	1.89	0.55
2:I9:23:GLU:OE2	2:I9:23:GLU:HA	2.06	0.55
3:J9:5:PHE:CZ	3:J9:30:LEU:HD22	2.42	0.55
3:R9:5:PHE:CZ	3:R9:30:LEU:HD22	2.42	0.55
2:S9:19:LEU:HD13	3:T9:98:LEU:HD22	1.89	0.55
11:a9:351:THR:CB	11:a9:352:PRO:CD	2.33	0.55
11:aA:426:ARG:NE	11:aA:496:ARG:HD3	2.22	0.55
11:aA:668:TYR:HE2	3:J1:80:ALA:HB1	1.62	0.55
11:aA:776:TYR:CD2	11:aA:776:TYR:C	2.83	0.55
3:F2:5:PHE:CZ	3:F2:30:LEU:HD22	2.42	0.55
1:Z:107:ARG:HH12	8:e5:9:VAL:HG22	1.72	0.55
3:DA:5:PHE:CZ	3:DA:30:LEU:HD22	2.42	0.55
12:VA:202:CYC:HC	12:VA:202:CYC:HMD2	1.71	0.55
2:Q1:108:TYR:O	3:T1:75:PRO:HB2	2.06	0.55
2:I2:19:LEU:HD13	3:J2:98:LEU:HD22	1.89	0.55
3:L2:5:PHE:CZ	3:L2:30:LEU:HD22	2.42	0.55
3:D3:5:PHE:CZ	3:D3:30:LEU:HD22	2.42	0.55
12:D3:202:CYC:HMA2	4:M3:53:LEU:HA	1.88	0.55
3:B4:107:ASP:O	4:M4:61:ASN:C	2.49	0.55
3:B4:116:THR:CA	4:M4:56:MET:CB	2.80	0.55
3:D4:5:PHE:CZ	3:D4:30:LEU:HD22	2.42	0.55
4:M3:233:GLU:OE2	4:M3:268:ARG:NH1	2.39	0.55
2:I4:19:LEU:HD13	3:J4:98:LEU:HD22	1.89	0.55
3:L4:71:GLY:CA	11:aA:82:GLN:CD	2.80	0.55
4:M4:217:VAL:HG11	5:Z4:30:PRO:HB3	1.88	0.55
8:K5:123:ILE:O	8:K5:126:VAL:HB	2.07	0.55
8:M5:104:ILE:HG23	8:M5:156:LEU:HD21	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O5:37:LEU:HA	8:O5:97:VAL:HG12	1.89	0.55
1:B5:2:GLN:OE1	10:k5:551:MET:SD	2.64	0.55
8:S5:62:ARG:O	8:S5:65:VAL:HG22	2.06	0.55
12:S5:201:CYC:HC	12:S5:201:CYC:HMD3	1.70	0.55
8:W5:17:TYR:HD2	1:X5:93:THR:CG2	2.12	0.55
12:Z5:201:CYC:HMA2	10:k5:379:PHE:CE1	2.42	0.55
9:z5:9:ALA:HA	9:z5:51:VAL:HA	1.89	0.55
10:k5:49:ASP:OD1	10:k5:49:ASP:N	2.39	0.55
2:A6:108:TYR:O	3:D6:75:PRO:HB2	2.06	0.55
3:F6:82:CYS:SG	12:F6:201:CYC:NC	2.79	0.55
1:N7:106:GLU:HG3	9:z7:58:THR:CG2	2.31	0.55
8:g7:16:ARG:HG3	8:g7:16:ARG:NH1	2.20	0.55
8:i7:43:LEU:HD21	8:i7:149:ALA:CB	2.32	0.55
8:c7:24:ASP:CG	8:m7:36:ARG:NH1	2.65	0.55
3:B8:75:PRO:HB2	2:E8:108:TYR:O	2.06	0.55
1:r7:75:THR:HB	8:s7:111:GLY:C	2.32	0.55
9:x7:32:VAL:HG23	9:x7:33:PRO:HD2	1.89	0.55
9:y7:32:VAL:HG23	9:y7:33:PRO:HD2	1.89	0.55
3:U8:5:PHE:CZ	3:U8:30:LEU:HD22	2.42	0.55
2:N8:14:SER:CA	5:Z8:62:ARG:HD2	2.37	0.55
2:R8:99:ALA:HB2	3:S8:9:ILE:CD1	2.36	0.55
4:M9:17:VAL:HG12	4:M9:18:THR:N	2.22	0.55
12:P9:202:CYC:HC	12:P9:202:CYC:HMD2	1.70	0.55
3:F9:5:PHE:CZ	3:F9:30:LEU:HD22	2.42	0.55
11:a9:798:SER:C	11:a9:800:THR:N	2.62	0.55
3:V1:5:PHE:CZ	3:V1:30:LEU:HD22	2.42	0.55
3:X1:75:PRO:HB2	2:Y1:108:TYR:O	2.06	0.55
3:BA:75:PRO:HB2	2:EA:108:TYR:O	2.06	0.54
2:CA:19:LEU:HD13	3:DA:98:LEU:HD22	1.89	0.54
2:GA:108:TYR:O	3:LA:75:PRO:HB2	2.06	0.54
3:JA:5:PHE:CZ	3:JA:30:LEU:HD22	2.42	0.54
3:LA:37:ARG:NH1	3:LA:97:LEU:HD12	2.22	0.54
3:LA:77:ARG:NH1	11:aA:538:ARG:HH21	2.02	0.54
4:MA:15:PHE:CD1	4:MA:71:PRO:HA	2.38	0.54
4:MA:130:SER:O	12:RA:201:CYC:HBA1	2.07	0.54
2:QA:76:ASP:HB2	2:U1:140:SER:C	2.32	0.54
3:VA:75:PRO:HB2	2:WA:108:TYR:O	2.06	0.54
2:O1:63:PHE:HB3	2:O1:66:LEU:HG	1.88	0.54
2:G3:111:ALA:CB	3:L3:77:ARG:CG	2.68	0.54
3:B3:5:PHE:CZ	3:B3:30:LEU:HD22	2.42	0.54
3:Z3:5:PHE:CZ	3:Z3:30:LEU:HD22	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M3:1:MET:O	4:M3:2:ASN:O	2.26	0.54
4:M3:162:ASN:O	4:M3:166:THR:CG2	2.50	0.54
3:S4:5:PHE:CZ	3:S4:30:LEU:HD22	2.42	0.54
3:J4:5:PHE:CZ	3:J4:30:LEU:HD22	2.42	0.54
3:O4:95:TYR:HE2	3:O4:108:ARG:NH2	2.01	0.54
12:O4:201:CYC:C4B	5:Z4:54:LEU:HD12	2.37	0.54
12:K5:201:CYC:CGD	1:J5:62:TYR:HH	2.17	0.54
12:L5:201:CYC:HB	12:L5:201:CYC:CMA	1.99	0.54
12:O5:201:CYC:HC	12:O5:201:CYC:HMD3	1.70	0.54
3:Y4:88:ILE:O	3:Y4:92:TYR:CD2	2.60	0.54
12:D5:201:CYC:HB	12:D5:201:CYC:HMA3	1.73	0.54
8:c5:82:LEU:CD1	6:M6:15:ILE:HG13	2.33	0.54
8:Q5:123:ILE:O	8:Q5:126:VAL:HB	2.06	0.54
8:Y5:37:LEU:HD22	1:Z5:24:LEU:HD22	1.89	0.54
3:L6:75:PRO:HB2	2:G6:108:TYR:O	2.07	0.54
9:i5:10:CYS:O	9:i5:49:GLY:CA	2.55	0.54
10:j5:306:GLU:OE2	10:j5:362:LYS:CE	2.55	0.54
10:j5:456:ILE:O	10:j5:456:ILE:HG13	2.06	0.54
10:j5:1052:PRO:HB3	11:aA:32:ARG:CZ	2.37	0.54
10:k5:156:SER:OG	12:k5:1201:CYC:HHD	2.07	0.54
10:k5:723:GLN:HE21	10:k5:723:GLN:HA	1.72	0.54
10:k5:969:VAL:O	10:k5:969:VAL:HG22	2.07	0.54
8:i7:101:VAL:HB	8:i7:155:TYR:OH	2.08	0.54
8:c7:36:ARG:HH12	8:m7:24:ASP:CG	2.11	0.54
8:q7:37:LEU:HD22	1:r7:24:LEU:HD22	1.89	0.54
9:x7:4:TYR:N	9:x7:58:THR:OG1	2.40	0.54
3:F8:84:ARG:NH2	11:a9:143:SER:HB3	2.22	0.54
3:L8:5:PHE:CZ	3:L8:30:LEU:HD22	2.42	0.54
12:M8:302:CYC:HAC2	3:S8:78:ARG:CB	2.36	0.54
2:P8:108:TYR:O	3:S8:75:PRO:HB2	2.06	0.54
3:Q8:89:ILE:HG12	3:Q8:92:TYR:CZ	2.42	0.54
4:M9:260:ARG:HH11	4:M9:260:ARG:CG	2.18	0.54
5:Z8:23:SER:C	5:Z8:25:THR:H	2.15	0.54
5:Z8:31:TRP:CB	5:Z8:32:PRO:HD2	2.32	0.54
12:F9:303:CYC:HC	12:F9:303:CYC:HMD2	1.70	0.54
3:J9:119:ALA:C	11:a9:365:LYS:HE3	2.12	0.54
11:a9:245:ALA:N	12:a9:901:CYC:HBB3	2.21	0.54
11:aA:558:VAL:HG12	11:aA:560:SER:OG	2.06	0.54
11:aA:643:LEU:CD1	11:aA:766:ASN:CA	2.85	0.54
11:aA:716:ILE:HD12	11:aA:738:LEU:CD2	2.37	0.54
4:M1:91:VAL:HG12	4:M1:91:VAL:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y1:19:LEU:HD13	3:Z1:98:LEU:HD22	1.89	0.54
3:Z1:5:PHE:CZ	3:Z1:30:LEU:HD22	2.42	0.54
3:FA:43:ALA:HB3	3:FA:142:VAL:HG22	1.89	0.54
3:HA:5:PHE:CZ	3:HA:30:LEU:HD22	2.42	0.54
2:IA:16:GLY:HA3	11:aA:514:VAL:CG1	2.36	0.54
4:MA:263:PRO:HG2	3:VA:115:GLU:O	2.07	0.54
3:PA:5:PHE:CZ	3:PA:30:LEU:HD22	2.42	0.54
3:PA:75:PRO:HB2	2:SA:108:TYR:O	2.06	0.54
12:QA:201:CYC:HBA2	3:TA:79:MET:HE1	1.90	0.54
3:H2:14:LEU:HD21	6:M2:68:THR:N	2.21	0.54
3:H2:88:ILE:CD1	6:M2:115:TYR:OH	2.56	0.54
2:A3:108:TYR:O	3:D3:75:PRO:HB2	2.06	0.54
2:E3:99:ALA:HB2	3:F3:9:ILE:CD1	2.36	0.54
12:Z3:201:CYC:HBA1	4:M3:188:LEU:HD23	1.89	0.54
2:A4:63:PHE:HB3	2:A4:66:LEU:HG	1.88	0.54
4:M3:95:ALA:HB2	5:N3:38:GLU:OE1	2.07	0.54
4:M3:209:TYR:CD1	4:M3:209:TYR:C	2.85	0.54
2:O3:63:PHE:HB3	2:O3:66:LEU:HG	1.88	0.54
2:U3:99:ALA:HB2	3:V3:9:ILE:CD1	2.36	0.54
2:T4:19:LEU:HD13	3:U4:98:LEU:HD22	1.89	0.54
3:F4:104:VAL:HA	3:F4:107:ASP:OD1	2.07	0.54
3:F4:107:ASP:OD2	4:M4:9:GLN:C	2.50	0.54
2:G4:19:LEU:HD13	3:H4:98:LEU:HD22	1.89	0.54
4:M4:90:LYS:HE3	4:M4:220:TYR:CZ	2.43	0.54
4:M4:220:TYR:C	4:M4:220:TYR:CD1	2.85	0.54
3:O4:120:LEU:HD23	5:Z4:14:LYS:NZ	2.22	0.54
8:K5:17:TYR:HB3	1:L5:45:SER:CB	2.32	0.54
8:A5:65:VAL:HG23	8:A5:66:VAL:HG23	1.89	0.54
8:A5:119:LEU:HD21	12:A5:201:CYC:HAA2	1.89	0.54
8:G5:88:TYR:OH	12:G5:201:CYC:HMB2	2.07	0.54
8:G5:115:MET:SD	12:G5:201:CYC:C1B	2.96	0.54
8:G5:122:PRO:HG2	12:G5:201:CYC:OC	2.06	0.54
1:d5:110:ASN:O	10:j5:352:ILE:HD11	2.05	0.54
12:R5:201:CYC:HB	12:R5:201:CYC:HMA2	1.70	0.54
8:W5:126:VAL:HG23	12:W5:201:CYC:HMC3	1.89	0.54
1:X5:107:ARG:HB3	10:j5:520:ARG:HH22	1.72	0.54
1:X5:120:GLY:O	10:j5:703:LEU:HD11	2.07	0.54
10:j5:1054:SER:HG	1:r7:110:ASN:HB3	1.71	0.54
10:k5:286:VAL:HB	10:k5:293:LYS:HE2	1.88	0.54
3:B6:75:PRO:HB2	2:E6:108:TYR:O	2.06	0.54
8:O7:37:LEU:HA	8:O7:97:VAL:HG12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q7:123:ILE:O	8:Q7:126:VAL:HB	2.07	0.54
8:g7:37:LEU:CD2	1:h7:24:LEU:HD21	2.38	0.54
8:g7:161:GLN:HG2	1:v7:49:THR:HG21	1.90	0.54
8:i7:92:VAL:CG2	8:i7:156:LEU:HD12	2.34	0.54
8:k7:66:VAL:HG11	11:a9:61:TYR:HE1	1.70	0.54
8:k7:104:ILE:HG23	8:k7:156:LEU:HD21	1.89	0.54
1:Z7:67:ARG:CG	11:a9:311:LEU:CD2	2.80	0.54
8:c7:9:VAL:HG22	1:d7:107:ARG:HH22	1.71	0.54
8:c7:58:LEU:HD13	8:c7:128:GLU:HB3	1.89	0.54
8:e7:65:VAL:HG23	8:e7:66:VAL:HG23	1.89	0.54
3:B8:5:PHE:CZ	3:B8:30:LEU:HD22	2.42	0.54
3:B8:109:CYS:HA	4:M8:60:LYS:HZ1	1.72	0.54
8:o7:17:TYR:OH	1:p7:90:ARG:HA	2.06	0.54
8:o7:56:ASP:OD1	8:o7:56:ASP:N	2.37	0.54
3:W8:5:PHE:CZ	3:W8:30:LEU:HD22	2.43	0.54
2:X8:16:GLY:CA	4:M8:228:SER:HB3	2.30	0.54
3:F8:5:PHE:CZ	3:F8:30:LEU:HD22	2.42	0.54
3:H8:5:PHE:CZ	3:H8:30:LEU:HD22	2.42	0.54
3:O8:5:PHE:CZ	3:O8:30:LEU:HD22	2.42	0.54
3:L9:37:ARG:NH1	3:L9:97:LEU:HD12	2.22	0.54
4:M9:15:PHE:CD1	4:M9:71:PRO:HA	2.38	0.54
4:M9:53:LEU:HB2	12:F9:301:CYC:HBA1	1.87	0.54
4:M9:209:TYR:C	4:M9:209:TYR:CD1	2.85	0.54
5:N9:54:LEU:HD13	3:T9:84:ARG:CZ	2.36	0.54
5:Z8:27:ALA:HB2	12:Z8:301:CYC:HAB1	1.86	0.54
3:D9:5:PHE:CZ	3:D9:30:LEU:HD22	2.42	0.54
3:H9:107:ASP:HB3	11:a9:445:THR:HG23	1.88	0.54
3:X9:75:PRO:HB2	2:Y9:108:TYR:O	2.06	0.54
11:a9:462:ARG:HH11	11:a9:462:ARG:HG2	1.71	0.54
3:L1:5:PHE:CZ	3:L1:30:LEU:HD22	2.42	0.54
4:M1:134:ASN:HD21	5:N1:1:MET:H1	1.55	0.54
3:D2:5:PHE:CZ	3:D2:30:LEU:HD22	2.42	0.54
1:A:127:VAL:HG11	1:R5:15:GLN:CD	2.32	0.54
1:Z:161:SER:HG	1:X5:14:VAL:HG21	1.70	0.54
2:AA:63:PHE:HB3	2:AA:66:LEU:HG	1.88	0.54
3:BA:27:LEU:CA	3:BA:30:LEU:HD13	2.33	0.54
2:QA:23:GLU:OE2	2:UA:2:LYS:NZ	2.40	0.54
3:TA:5:PHE:CZ	3:TA:30:LEU:HD22	2.42	0.54
12:TA:302:CYC:HC	12:TA:302:CYC:HMD2	1.70	0.54
3:P1:5:PHE:CZ	3:P1:30:LEU:HD22	2.42	0.54
12:H3:202:CYC:HB	11:a9:776:TYR:HB3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J3:5:PHE:CZ	3:J3:30:LEU:HD22	2.42	0.54
3:J3:120:LEU:CG	11:a9:800:THR:HG21	2.34	0.54
7:N2:43:VAL:HG21	7:N2:51:GLU:HG2	1.88	0.54
3:F3:5:PHE:CZ	3:F3:30:LEU:HD22	2.42	0.54
2:C4:108:TYR:O	3:F4:75:PRO:HB2	2.06	0.54
5:N3:31:TRP:CZ2	3:T3:92:TYR:OH	2.56	0.54
2:O3:65:TYR:O	2:O3:71:GLN:CG	2.54	0.54
3:H4:5:PHE:CZ	3:H4:30:LEU:HD22	2.42	0.54
4:M4:61:ASN:C	4:M4:63:GLY:N	2.64	0.54
4:M4:181:GLN:O	4:M4:181:GLN:HG3	2.03	0.54
2:P4:99:ALA:HB2	3:Q4:9:ILE:CD1	2.36	0.54
12:K5:201:CYC:HC	12:K5:201:CYC:HMD3	1.70	0.54
8:M5:65:VAL:HG23	8:M5:66:VAL:HG23	1.89	0.54
8:A5:118:SER:HB2	1:F5:82:ILE:HD12	1.86	0.54
8:c5:14:GLU:OE2	10:j5:393:MET:HG3	2.07	0.54
1:Z5:64:ASP:HB2	10:k5:705:THR:HG21	1.82	0.54
8:a5:29:PHE:CD1	8:a5:99:GLY:HA3	2.43	0.54
6:M6:277:GLY:HA2	1:d7:62:TYR:HB2	1.90	0.54
10:j5:320:GLU:HG2	10:j5:320:GLU:O	2.06	0.54
10:j5:820:HIS:HE1	10:j5:859:ILE:HD13	1.59	0.54
10:k5:361:PHE:HZ	10:k5:378:TYR:CE2	2.25	0.54
10:k5:1052:PRO:CA	1:l7:106:GLU:CG	2.85	0.54
12:k5:1204:CYC:HB	12:k5:1204:CYC:HMA3	1.73	0.54
8:Q7:21:GLY:CA	8:C7:6:LYS:HZ3	2.19	0.54
8:Q7:104:ILE:HG23	8:Q7:156:LEU:HD21	1.89	0.54
8:K7:123:ILE:O	8:K7:126:VAL:HB	2.07	0.54
8:K7:126:VAL:HG23	12:K7:201:CYC:HMC3	1.89	0.54
8:i7:95:GLY:O	8:i7:152:TYR:CE2	2.54	0.54
1:Z7:10:ASN:ND2	9:x7:65:THR:C	2.65	0.54
2:A8:99:ALA:HB2	3:B8:9:ILE:CD1	2.36	0.54
2:C8:19:LEU:HD13	3:D8:98:LEU:HD22	1.89	0.54
12:p7:201:CYC:HB	12:p7:201:CYC:HMA3	1.73	0.54
8:q7:65:VAL:HG23	8:q7:66:VAL:HG23	1.89	0.54
2:G8:19:LEU:HD13	3:H8:98:LEU:HD22	1.89	0.54
4:M8:233:GLU:OE2	4:M8:268:ARG:NH1	2.39	0.54
2:N8:115:GLU:HA	5:Z8:32:PRO:HB2	1.86	0.54
3:Q8:78:ARG:CD	12:Z8:301:CYC:CMD	2.85	0.54
3:F1:5:PHE:CZ	3:F1:30:LEU:HD22	2.42	0.54
4:M9:1:MET:O	4:M9:2:ASN:O	2.26	0.54
4:M9:90:LYS:HE3	4:M9:220:TYR:CZ	2.43	0.54
3:Y8:106:GLU:HB2	3:Y8:166:LYS:HD3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A9:65:TYR:O	2:A9:71:GLN:CG	2.54	0.54
2:C9:19:LEU:HD13	3:D9:98:LEU:HD22	1.89	0.54
3:H9:75:PRO:HB2	2:I9:108:TYR:O	2.06	0.54
2:I9:19:LEU:HD12	3:J9:41:VAL:HG13	1.89	0.54
11:a9:388:VAL:HG11	11:a9:419:ARG:HH11	1.73	0.54
11:a9:482:TYR:C	11:a9:482:TYR:CD1	2.84	0.54
11:aA:643:LEU:HD11	11:aA:766:ASN:HA	1.89	0.54
2:I1:19:LEU:HD13	3:J1:98:LEU:HD22	1.89	0.54
4:M1:205:ASP:OD2	5:N1:52:ARG:NH2	2.39	0.54
5:N1:29:HIS:NE2	12:T1:301:CYC:OB	2.40	0.54
3:J2:119:ALA:CB	6:M2:261:LYS:N	2.67	0.54
3:B3:126:SER:CB	12:B3:202:CYC:HMC2	2.37	0.54
3:Z3:98:LEU:HD22	2:Y3:19:LEU:HD13	1.89	0.54
4:M3:220:TYR:C	4:M3:220:TYR:CD1	2.85	0.54
3:X3:75:PRO:HB2	2:Y3:108:TYR:O	2.06	0.54
3:B1:84:ARG:HD3	11:aA:680:SER:OG	2.07	0.54
4:M4:1:MET:O	4:M4:2:ASN:O	2.26	0.54
4:M4:17:VAL:HG12	4:M4:18:THR:N	2.22	0.54
4:M4:129:GLU:HG3	4:M4:142:PHE:HE2	1.71	0.54
4:M4:273:ILE:CG2	2:X4:107:ASP:CB	2.85	0.54
1:L5:1:MET:O	1:L5:1:MET:HG3	2.04	0.54
2:X4:19:LEU:HD13	3:Y4:98:LEU:HD22	1.89	0.54
8:G5:161:GLN:HG2	1:T5:49:THR:CG2	2.36	0.54
12:V5:201:CYC:HB	12:V5:201:CYC:HMA2	1.69	0.54
8:W5:18:LEU:HD22	1:X5:97:LEU:HD11	1.90	0.54
8:W5:104:ILE:HG23	8:W5:156:LEU:HD21	1.89	0.54
7:N6:43:VAL:HG21	7:N6:51:GLU:HG2	1.88	0.54
10:j5:70:ARG:HG2	10:j5:209:ASN:OD1	2.08	0.54
10:j5:138:PRO:CG	10:j5:201:VAL:HG11	2.34	0.54
10:j5:230:VAL:O	10:j5:234:LEU:CD1	2.54	0.54
10:j5:878:GLU:CG	9:w7:28:PHE:CE2	2.89	0.54
10:k5:825:ASN:CB	12:B7:201:CYC:HBB2	2.36	0.54
10:k5:1064:LYS:HE2	10:k5:1065:HIS:CD2	2.42	0.54
2:G6:19:LEU:HD13	3:H6:98:LEU:HD22	1.89	0.54
8:G7:104:ILE:HG23	8:G7:156:LEU:HD21	1.89	0.54
8:M7:37:LEU:HD22	1:N7:24:LEU:HD22	1.89	0.54
1:T7:75:THR:HB	8:U7:111:GLY:C	2.32	0.54
8:e7:104:ILE:HG23	8:e7:156:LEU:HD21	1.89	0.54
8:q7:45:GLU:OE2	3:H1:125:ARG:NH2	2.40	0.54
12:r7:201:CYC:HB	12:r7:201:CYC:HMA3	1.73	0.54
8:s7:90:ARG:CZ	1:t7:16:GLY:HA2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u7:30:VAL:CA	1:v7:31:PHE:HD1	2.20	0.54
9:w7:7:VAL:HG11	9:w7:37:TRP:CE3	2.43	0.54
3:F8:113:LEU:N	4:M8:5:THR:HG23	2.21	0.54
12:H8:201:CYC:CBB	11:a9:259:ALA:CB	2.80	0.54
4:M8:1:MET:O	4:M8:2:ASN:O	2.26	0.54
4:M8:17:VAL:HG12	4:M8:18:THR:N	2.22	0.54
3:S8:5:PHE:CZ	3:S8:30:LEU:HD22	2.42	0.54
4:M9:48:PRO:HG2	4:M9:48:PRO:O	2.07	0.54
5:N9:39:PRO:CA	3:P9:116:THR:OG1	2.56	0.54
3:Y8:89:ILE:C	3:Y8:92:TYR:CE2	2.82	0.54
3:J9:75:PRO:HB2	2:K9:108:TYR:O	2.06	0.54
12:J9:202:CYC:CBA	11:a9:510:PHE:O	2.49	0.54
3:Z9:5:PHE:CZ	3:Z9:30:LEU:HD22	2.42	0.54
11:aA:346:TYR:CD1	11:aA:346:TYR:C	2.84	0.54
4:M1:163:ASN:HD21	12:Z1:202:CYC:CMA	2.19	0.54
4:M1:209:TYR:C	4:M1:209:TYR:CD1	2.85	0.54
4:M1:220:TYR:C	4:M1:220:TYR:CD1	2.85	0.54
3:X1:5:PHE:CZ	3:X1:30:LEU:HD22	2.42	0.54
1:A:18:TYR:CZ	8:a5:90:ARG:CA	2.91	0.54
1:Z:18:TYR:OH	8:e5:89:LEU:CB	2.56	0.54
2:AA:38:MET:CE	3:BA:28:THR:OG1	2.56	0.54
2:IA:19:LEU:HD12	3:JA:41:VAL:HG13	1.89	0.54
4:MA:91:VAL:HG12	4:MA:91:VAL:O	2.06	0.54
4:MA:95:ALA:CB	5:NA:38:GLU:OE2	2.56	0.54
12:QA:201:CYC:HBB3	3:TA:74:TYR:CE2	2.43	0.54
3:H2:5:PHE:CZ	3:H2:30:LEU:HD22	2.42	0.54
3:J2:88:ILE:HD11	6:M2:185:PHE:CZ	2.43	0.54
7:N2:22:GLN:OE1	7:N2:39:TYR:HE2	1.91	0.54
3:B4:82:CYS:CB	12:B4:202:CYC:OC	2.48	0.54
4:M3:48:PRO:HG2	4:M3:48:PRO:O	2.06	0.54
4:M3:81:ASP:N	3:X3:111:ASN:HD21	2.02	0.54
3:P3:75:PRO:HB2	2:S3:108:TYR:O	2.06	0.54
3:B1:75:PRO:HB2	2:E1:108:TYR:O	2.06	0.54
3:B1:84:ARG:NH1	11:aA:680:SER:CB	2.71	0.54
3:F4:115:GLU:CB	4:M4:3:VAL:HG11	2.24	0.54
3:Q4:5:PHE:CZ	3:Q4:30:LEU:HD22	2.42	0.54
8:K5:106:GLU:OE1	9:i5:66:GLY:N	2.38	0.54
12:N5:201:CYC:HB	12:N5:201:CYC:HMA2	1.69	0.54
1:B5:107:ARG:NH2	9:z5:21:ARG:HD3	2.22	0.54
8:C5:29:PHE:CD1	8:C5:99:GLY:HA3	2.43	0.54
12:F5:201:CYC:HB	12:F5:201:CYC:HMA3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G5:107:ILE:CD1	1:H5:13:ASP:OD2	2.55	0.54
8:U5:37:LEU:HA	8:U5:97:VAL:HG12	1.89	0.54
8:W5:17:TYR:CD2	1:X5:44:ILE:HG22	2.40	0.54
8:Y5:65:VAL:HG23	8:Y5:66:VAL:HG23	1.89	0.54
7:N6:22:GLN:OE1	7:N6:39:TYR:HE2	1.91	0.54
10:j5:221:LYS:CA	10:j5:221:LYS:CE	2.85	0.54
10:j5:386:ILE:CG2	10:j5:387:VAL:N	2.36	0.54
10:j5:1018:LEU:HB3	10:j5:1021:ALA:HB3	0.68	0.54
10:j5:1118:THR:HG23	12:j5:1202:CYC:HBA1	1.90	0.54
10:j5:1155:ARG:HH21	10:j5:1155:ARG:CB	2.09	0.54
10:k5:283:ARG:HD3	10:k5:283:ARG:O	2.06	0.54
12:k5:1203:CYC:HB	12:k5:1203:CYC:HMA3	1.73	0.54
1:B7:54:GLU:OE1	11:a9:563:PHE:CD2	2.61	0.54
8:G7:65:VAL:HG23	8:G7:66:VAL:HG23	1.89	0.54
1:H7:75:THR:HB	8:I7:111:GLY:C	2.32	0.54
8:M7:104:ILE:HG23	8:M7:156:LEU:HD21	1.89	0.54
8:Y7:104:ILE:HG23	8:Y7:156:LEU:HD21	1.89	0.54
8:u7:17:TYR:OH	1:v7:90:ARG:HA	2.06	0.54
9:z7:39:THR:O	9:z7:39:THR:OG1	2.22	0.54
3:U8:115:GLU:CD	4:M8:70:SER:HB2	2.32	0.54
2:X8:69:PRO:N	2:S9:42:ARG:NE	2.54	0.54
3:F8:108:ARG:HE	4:M8:9:GLN:CA	2.20	0.54
2:G8:108:TYR:O	3:L8:75:PRO:HB2	2.06	0.54
12:N8:201:CYC:HB	12:N8:201:CYC:CMA	2.17	0.54
3:Q8:102:ALA:CB	3:Q8:166:LYS:NZ	2.32	0.54
4:M9:37:GLU:CD	4:M9:40:GLN:NE2	2.62	0.54
4:M9:95:ALA:CB	5:N9:38:GLU:OE2	2.56	0.54
4:M9:192:GLN:O	4:M9:192:GLN:HG3	2.05	0.54
5:N9:11:ARG:HD2	3:R9:108:ARG:NH2	2.23	0.54
5:Z8:41:GLN:H	12:Z8:301:CYC:CHB	2.21	0.54
11:a9:512:TYR:CD1	11:a9:512:TYR:C	2.86	0.54
11:aA:55:ASP:CB	11:aA:612:TYR:CG	2.91	0.54
11:aA:379:LEU:HD13	11:aA:391:VAL:CG2	2.30	0.54
4:M1:1:MET:O	4:M1:2:ASN:O	2.26	0.54
4:M1:61:ASN:O	4:M1:63:GLY:N	2.40	0.54
4:M1:90:LYS:HE3	4:M1:220:TYR:CZ	2.43	0.54
4:MA:274:VAL:CG2	3:VA:77:ARG:CB	2.73	0.54
3:XA:5:PHE:CZ	3:XA:30:LEU:HD22	2.42	0.54
2:A1:108:TYR:O	3:D1:75:PRO:HB2	2.06	0.54
3:T3:5:PHE:CZ	3:T3:30:LEU:HD22	2.42	0.54
3:B1:5:PHE:CZ	3:B1:30:LEU:HD22	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F4:110:LEU:O	3:F4:111:ASN:C	2.51	0.54
4:M4:131:LEU:HD21	5:Z4:2:SER:HA	1.87	0.54
4:M4:209:TYR:CD1	4:M4:209:TYR:C	2.85	0.54
3:O4:5:PHE:CZ	3:O4:30:LEU:HD22	2.42	0.54
3:O4:119:ALA:CB	5:Z4:72:GLU:H	2.20	0.54
3:Q4:37:ARG:HD3	3:Q4:98:LEU:HD12	1.90	0.54
8:M5:38:ARG:CD	1:J7:144:ASP:CG	2.81	0.54
8:e5:37:LEU:HA	8:e5:97:VAL:HG12	1.88	0.54
8:S5:90:ARG:CZ	1:T5:16:GLY:CA	2.86	0.54
8:W5:8:ILE:CG2	1:X5:94:TYR:CG	2.90	0.54
1:Z5:28:LYS:HD3	1:t7:143:PRO:CG	2.05	0.54
1:b5:90:ARG:HA	10:k5:34:TYR:CE1	2.41	0.54
6:M6:69:ALA:N	3:H6:14:LEU:HD21	2.22	0.54
6:M6:115:TYR:OH	3:H6:88:ILE:CD1	2.56	0.54
10:k5:306:GLU:OE2	10:k5:362:LYS:CE	2.56	0.54
10:k5:411:TYR:C	10:k5:411:TYR:CD1	2.84	0.54
10:k5:929:PRO:HG3	1:D7:147:LYS:NZ	2.21	0.54
10:k5:989:THR:HG21	8:a7:106:GLU:OE2	2.02	0.54
10:k5:1018:LEU:HB3	10:k5:1021:ALA:HB3	0.68	0.54
10:k5:1150:TYR:CE1	11:a9:38:VAL:CG2	2.62	0.54
12:k5:1203:CYC:HMA2	12:k5:1203:CYC:HB	1.70	0.54
3:F6:86:MET:CG	12:F6:201:CYC:HBC1	2.37	0.54
8:C7:90:ARG:CZ	1:D7:16:GLY:HA2	2.37	0.54
12:D7:201:CYC:HB	12:D7:201:CYC:HMA2	1.70	0.54
8:E7:123:ILE:O	8:E7:126:VAL:HB	2.07	0.54
8:E7:126:VAL:HG23	12:E7:201:CYC:HMC3	1.89	0.54
8:G7:65:VAL:HG23	8:G7:66:VAL:N	2.21	0.54
8:I7:29:PHE:CD1	8:I7:99:GLY:HA3	2.43	0.54
8:I7:44:THR:OG1	1:J7:18:TYR:HD2	1.91	0.54
1:h7:30:TYR:CD2	1:h7:30:TYR:C	2.86	0.54
1:T7:1:MET:O	9:w7:66:GLY:HA3	2.07	0.54
8:a7:63:PRO:CG	11:a9:336:ILE:CG2	2.80	0.54
8:o7:23:LEU:CA	1:p7:38:VAL:CG2	2.85	0.54
12:o7:201:CYC:HC	12:o7:201:CYC:HMD3	1.70	0.54
8:u7:37:LEU:HD21	1:v7:24:LEU:CD2	2.21	0.54
8:u7:90:ARG:HG3	1:v7:18:TYR:CG	2.42	0.54
3:H8:75:PRO:HB2	2:I8:108:TYR:O	2.06	0.54
3:H8:84:ARG:CD	11:a9:131:TYR:CZ	2.89	0.54
2:I8:19:LEU:HD13	3:J8:98:LEU:HD22	1.89	0.54
4:M8:91:VAL:HG22	2:P8:15:GLN:CA	2.38	0.54
4:M8:140:ARG:NH1	4:M8:210:ILE:HG13	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M8:160:THR:HG22	4:M8:257:GLN:HB3	1.73	0.54
4:M8:209:TYR:CD1	4:M8:209:TYR:C	2.85	0.54
4:M8:232:VAL:HA	12:M8:301:CYC:C1B	2.38	0.54
12:O8:201:CYC:HBB3	5:Z8:57:MET:HB3	1.89	0.54
4:M9:130:SER:O	12:R9:201:CYC:HBA1	2.07	0.54
5:N9:53:LEU:C	12:T9:301:CYC:HBA1	2.29	0.54
3:P9:5:PHE:CZ	3:P9:30:LEU:HD22	2.42	0.54
2:Q9:19:LEU:HD13	3:R9:98:LEU:HD22	1.89	0.54
3:Y8:5:PHE:CZ	3:Y8:30:LEU:HD22	2.42	0.54
3:F9:37:ARG:N	3:F9:156:LEU:HD21	2.22	0.54
2:I9:13:ASP:OD1	3:J9:92:TYR:OH	2.20	0.54
11:a9:640:ALA:HB2	11:a9:770:TYR:CE2	2.41	0.54
11:a9:643:LEU:CD1	11:a9:766:ASN:CA	2.85	0.54
11:a9:798:SER:C	11:a9:800:THR:H	2.14	0.54
11:aA:462:ARG:HH11	11:aA:462:ARG:HG2	1.71	0.54
11:aA:812:ASP:O	11:aA:816:LEU:N	2.39	0.54
3:LA:84:ARG:HE	11:aA:406:LEU:CD2	2.21	0.54
4:MA:220:TYR:C	4:MA:220:TYR:CD1	2.85	0.54
2:OA:2:LYS:NZ	2:YA:23:GLU:OE2	2.41	0.54
2:O1:2:LYS:HE2	2:Y1:22:THR:CG2	2.38	0.54
2:O1:2:LYS:NZ	2:Y1:23:GLU:OE2	2.41	0.54
2:A1:2:LYS:NZ	2:K1:23:GLU:OE2	2.41	0.54
3:H2:77:ARG:HH12	6:M2:117:MET:HE2	1.55	0.54
3:S4:98:LEU:HD22	2:R4:19:LEU:HD13	1.89	0.54
4:M4:17:VAL:CG1	4:M4:18:THR:N	2.71	0.54
4:M4:96:LYS:NZ	3:Q4:92:TYR:OH	2.40	0.54
4:M4:141:GLU:CG	4:M4:145:LEU:HD12	2.38	0.54
4:M4:205:ASP:HB3	5:Z4:59:ARG:NH1	2.22	0.54
4:M4:205:ASP:HB3	5:Z4:59:ARG:HH11	1.72	0.54
3:O4:111:ASN:O	5:Z4:67:ILE:HB	2.08	0.54
8:O5:76:LYS:CG	8:O5:77:MET:H	2.18	0.54
3:Y4:5:PHE:CZ	3:Y4:30:LEU:HD22	2.42	0.54
5:Z4:41:GLN:CB	12:Z4:301:CYC:C4B	2.85	0.54
8:A5:116:TYR:HE1	12:A5:201:CYC:HD	1.54	0.54
8:c5:9:VAL:CG1	10:j5:344:ARG:NH1	2.60	0.54
8:Q5:160:MET:HB2	8:Q5:161:GLN:HE21	1.73	0.54
8:U5:76:LYS:C	8:U5:78:THR:N	2.64	0.54
3:J6:5:PHE:CZ	3:J6:30:LEU:HD22	2.42	0.54
3:J6:98:LEU:HD22	2:I6:19:LEU:HD13	1.89	0.54
7:N6:5:VAL:HB	2:E6:13:ASP:OD2	2.08	0.54
8:A7:65:VAL:HG23	8:A7:66:VAL:N	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:990:ARG:HE	10:j5:1026:LYS:HZ1	1.34	0.54
3:F6:86:MET:HG2	12:F6:201:CYC:HBC1	1.88	0.54
3:H6:84:ARG:O	3:H6:87:GLU:N	2.40	0.54
8:Q7:126:VAL:HG23	12:Q7:201:CYC:HMC3	1.89	0.54
8:g7:37:LEU:HA	8:g7:97:VAL:HG12	1.88	0.54
8:g7:51:VAL:HB	11:aA:318:TRP:CZ3	2.42	0.54
12:j7:201:CYC:HB	12:j7:201:CYC:HMA3	1.72	0.54
8:k7:68:PRO:HB2	11:a9:334:LYS:NZ	2.23	0.54
8:Y7:49:ARG:HG3	8:Y7:52:LYS:HZ2	1.71	0.54
3:B8:92:TYR:OH	12:B8:202:CYC:HAB1	2.08	0.54
2:E8:19:LEU:HD13	3:F8:98:LEU:HD22	1.89	0.54
8:m7:37:LEU:HA	8:m7:97:VAL:HG12	1.88	0.54
8:o7:18:LEU:CD1	1:p7:97:LEU:HD13	2.37	0.54
3:F8:113:LEU:HD13	4:M8:5:THR:HG21	1.89	0.54
12:J8:202:CYC:HC	12:J8:202:CYC:HMD2	1.70	0.54
3:L8:86:MET:HG3	12:a9:901:CYC:CAC	2.37	0.54
4:M8:139:VAL:HG23	4:M8:215:GLU:O	2.06	0.54
4:M9:158:PHE:CE1	2:U9:10:ALA:CA	2.91	0.54
5:N9:34:LEU:CB	3:P9:84:ARG:HH11	2.21	0.54
11:a9:405:ILE:HG22	11:a9:405:ILE:O	2.05	0.54
11:aA:512:TYR:CD1	11:aA:512:TYR:C	2.86	0.54
11:aA:615:ARG:O	3:H1:68:ARG:HD2	2.03	0.54
11:aA:731:GLN:HG2	11:aA:817:LEU:HD21	1.88	0.54
4:M1:17:VAL:CG1	4:M1:18:THR:N	2.71	0.54
3:F2:127:VAL:CG2	12:F2:201:CYC:HMC2	2.38	0.54
1:A:161:SER:OXT	1:R5:14:VAL:HG21	2.08	0.54
12:A:201:CYC:HB	12:A:201:CYC:HMA3	1.73	0.54
3:HA:66:LEU:HD22	12:HA:202:CYC:C1C	2.23	0.54
3:JA:110:LEU:C	11:aA:518:ALA:CB	2.80	0.54
4:MA:17:VAL:CG1	4:MA:18:THR:N	2.71	0.54
5:NA:34:LEU:CB	3:PA:84:ARG:HH11	2.21	0.54
5:NA:67:ILE:N	5:NA:67:ILE:HD13	2.23	0.54
3:J2:5:PHE:CZ	3:J2:30:LEU:HD22	2.42	0.54
2:K2:22:THR:CG2	2:A2:2:LYS:HE2	2.38	0.54
6:M2:45:ILE:HD11	8:i7:78:THR:HB	1.89	0.54
2:A4:2:LYS:HE2	2:K4:22:THR:CG2	2.38	0.54
5:N3:31:TRP:HZ2	3:T3:92:TYR:OH	1.89	0.54
4:M4:225:LYS:CD	3:Y4:81:ALA:HB2	2.36	0.54
8:M5:105:GLU:OE1	10:k5:532:THR:HG22	2.07	0.54
8:A5:126:VAL:HG23	12:A5:201:CYC:HMC1	1.89	0.54
8:E5:80:LEU:HD12	12:E5:201:CYC:HAD1	1.82	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G5:65:VAL:HG23	8:G5:66:VAL:HG23	1.89	0.54
8:G5:126:VAL:HG23	12:G5:201:CYC:HMC1	1.89	0.54
8:Q5:15:ALA:HB2	10:k5:521:GLY:HA2	1.89	0.54
8:W5:160:MET:HB2	8:W5:161:GLN:HE21	1.73	0.54
8:Y5:14:GLU:OE2	10:k5:393:MET:CG	2.56	0.54
9:i5:16:ARG:HE	9:i5:16:ARG:CA	2.20	0.54
10:j5:190:LEU:CA	10:j5:194:CYS:HG	2.21	0.54
10:j5:306:GLU:OE2	10:j5:362:LYS:HE2	2.08	0.54
10:j5:872:TYR:HB3	9:w7:43:ARG:HH12	1.73	0.54
10:j5:969:VAL:HG22	10:j5:969:VAL:O	2.08	0.54
10:j5:1064:LYS:HE2	10:j5:1065:HIS:CD2	2.42	0.54
10:k5:18:ARG:HH12	10:k5:268:SER:HB3	1.73	0.54
10:k5:549:LYS:HD3	10:k5:549:LYS:C	2.33	0.54
8:Q7:21:GLY:HA3	8:C7:6:LYS:HD3	1.90	0.54
8:S7:65:VAL:HG23	8:S7:66:VAL:HG23	1.89	0.54
8:G7:37:LEU:HD22	1:H7:24:LEU:HD22	1.89	0.54
8:I7:37:LEU:HA	8:I7:97:VAL:HG12	1.89	0.54
8:k7:65:VAL:HG23	8:k7:66:VAL:HG23	1.89	0.54
8:Y7:65:VAL:HG23	8:Y7:66:VAL:N	2.21	0.54
8:a7:63:PRO:CG	11:a9:336:ILE:HG23	2.37	0.54
8:o7:2:SER:CB	1:p7:5:ILE:HG21	2.38	0.54
12:v7:201:CYC:HB	12:v7:201:CYC:HMA3	1.73	0.54
9:x7:9:ALA:HB3	9:x7:44:ILE:HD11	1.89	0.54
3:U8:75:PRO:HB2	2:V8:108:TYR:O	2.06	0.54
3:Q8:5:PHE:CZ	3:Q8:30:LEU:HD22	2.42	0.54
3:Q8:84:ARG:HD3	5:Z8:29:HIS:CG	2.42	0.54
3:Q8:88:ILE:O	3:Q8:92:TYR:CD2	2.61	0.54
3:L9:89:ILE:HB	3:L9:134:MET:HE1	1.88	0.54
2:O9:38:MET:CE	3:P9:28:THR:OG1	2.56	0.54
3:Y8:110:LEU:HD13	3:Y8:170:SER:HB2	1.89	0.54
12:X9:202:CYC:HC	12:X9:202:CYC:HMD2	1.70	0.54
11:a9:629:LYS:CE	11:a9:629:LYS:CA	2.84	0.54
11:aA:581:ARG:HG3	11:aA:581:ARG:NH1	2.17	0.54
11:aA:703:LYS:C	11:aA:708:HIS:HD2	2.13	0.54
4:M1:95:ALA:CB	5:N1:38:GLU:OE1	2.56	0.54
3:T1:5:PHE:CZ	3:T1:30:LEU:HD22	2.42	0.54
2:W1:19:LEU:HD13	3:X1:98:LEU:HD22	1.89	0.54
12:Z:201:CYC:HB	12:Z:201:CYC:HMA2	1.69	0.54
3:BA:26:GLN:C	3:BA:30:LEU:HD13	2.31	0.54
3:FA:5:PHE:CZ	3:FA:30:LEU:HD22	2.42	0.54
3:FA:125:ARG:HD2	3:VA:14:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LA:5:PHE:CZ	3:LA:30:LEU:HD22	2.42	0.54
5:NA:39:PRO:CA	3:PA:116:THR:OG1	2.56	0.54
2:QA:21:ASN:HB3	2:UA:153:TYR:CZ	2.43	0.54
2:QA:120:PHE:CZ	3:TA:79:MET:SD	3.01	0.54
2:A1:2:LYS:HE2	2:K1:22:THR:CG2	2.38	0.54
2:A1:38:MET:CE	3:B1:28:THR:OG1	2.56	0.54
3:J3:14:LEU:HD11	11:a9:621:THR:CG2	2.27	0.54
2:K3:16:GLY:N	11:a9:745:GLY:HA2	2.23	0.54
3:H2:77:ARG:CD	6:M2:117:MET:HE3	2.36	0.54
2:C3:140:SER:HB2	3:D8:150:ARG:HH11	1.68	0.54
2:A4:38:MET:CE	3:B4:28:THR:OG1	2.56	0.54
4:M3:95:ALA:CB	5:N3:38:GLU:OE1	2.56	0.54
2:O3:38:MET:CE	3:P3:28:THR:OG1	2.56	0.54
3:R3:5:PHE:CZ	3:R3:30:LEU:HD22	2.42	0.54
3:S4:85:ASP:OD2	12:S4:202:CYC:HHD	2.08	0.54
3:U4:108:ARG:HB3	4:M4:246:ALA:CB	2.34	0.54
4:M4:215:GLU:HB3	5:Z4:28:HIS:H	1.72	0.54
12:M4:301:CYC:CMB	3:Y4:89:ILE:CD1	2.73	0.54
2:N4:38:MET:CE	3:O4:28:THR:OG1	2.56	0.54
8:M5:38:ARG:HD3	1:J7:144:ASP:CG	2.33	0.54
8:O5:29:PHE:CD1	8:O5:99:GLY:HA3	2.43	0.54
8:A5:88:TYR:OH	12:A5:201:CYC:HMB2	2.07	0.54
8:A5:107:ILE:CD1	1:B5:13:ASP:OD2	2.55	0.54
8:A5:115:MET:SD	12:A5:201:CYC:C1B	2.95	0.54
8:C5:37:LEU:HA	8:C5:97:VAL:HG12	1.89	0.54
8:C5:88:TYR:CE2	12:C5:201:CYC:CMB	2.91	0.54
8:U5:75:GLU:HG2	6:M6:32:MET:CE	2.37	0.54
3:L6:77:ARG:NE	6:M6:70:GLU:OE2	2.41	0.54
9:z5:34:TYR:C	9:z5:34:TYR:CD1	2.83	0.54
10:j5:16:LEU:N	10:j5:16:LEU:HD13	2.22	0.54
10:k5:227:ILE:HG22	10:k5:227:ILE:O	2.06	0.54
10:k5:456:ILE:O	10:k5:456:ILE:HG13	2.07	0.54
10:k5:1125:ARG:NH1	1:n7:114:GLU:HB3	2.22	0.54
3:B6:5:PHE:CZ	3:B6:30:LEU:HD22	2.42	0.54
3:D6:5:PHE:CZ	3:D6:30:LEU:HD22	2.42	0.54
1:R7:49:THR:HG22	8:C7:161:GLN:CG	2.31	0.54
12:f7:201:CYC:HB	12:f7:201:CYC:HMA3	1.72	0.54
3:D8:107:ASP:OD2	11:a9:109:ASN:OD1	2.18	0.54
8:o7:30:VAL:CG1	1:p7:31:PHE:HD1	2.21	0.54
8:o7:80:LEU:CD1	12:o7:201:CYC:HAD2	2.38	0.54
8:o7:104:ILE:HG23	8:o7:156:LEU:HD21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u7:23:LEU:CA	1:v7:38:VAL:CG2	2.85	0.54
9:w7:7:VAL:O	9:w7:7:VAL:HG23	2.08	0.54
3:F8:91:ARG:HH21	11:a9:140:GLN:HE21	1.56	0.54
2:K8:19:LEU:HD13	3:L8:98:LEU:HD22	1.89	0.54
3:L8:68:ARG:HB3	3:L8:69:PRO:HD2	1.89	0.54
2:N8:65:TYR:O	2:N8:71:GLN:CG	2.54	0.54
5:N9:67:ILE:N	5:N9:67:ILE:HD13	2.23	0.54
5:Z8:37:HIS:HB2	12:Z8:301:CYC:C3B	2.38	0.54
5:Z8:37:HIS:O	5:Z8:38:GLU:C	2.49	0.54
2:I9:21:ASN:O	2:I9:22:THR:C	2.49	0.54
11:a9:716:ILE:HD12	11:a9:738:LEU:CD2	2.37	0.54
11:aA:585:GLU:HA	11:aA:588:VAL:O	2.06	0.54
4:M1:188:LEU:HD23	12:Z1:202:CYC:HBA1	1.89	0.54
12:BA:201:CYC:OB	4:MA:28:HIS:NE2	2.29	0.54
3:HA:125:ARG:NE	8:S7:41:GLN:HE21	1.99	0.54
12:JA:202:CYC:CBB	11:aA:516:GLN:HG3	2.35	0.54
4:MA:58:TYR:CD2	11:aA:496:ARG:NH1	2.75	0.54
5:NA:54:LEU:HD13	3:TA:84:ARG:CZ	2.36	0.54
2:QA:81:LYS:HZ1	3:TA:67:ILE:CD1	2.19	0.54
3:VA:5:PHE:CZ	3:VA:30:LEU:HD22	2.42	0.54
3:B3:127:VAL:HG23	12:B3:202:CYC:HMC3	1.89	0.54
12:L3:202:CYC:HMA1	11:a9:713:ASN:OD1	2.08	0.54
2:O3:2:LYS:HE2	2:Y3:22:THR:CG2	2.38	0.54
2:O3:2:LYS:NZ	2:Y3:23:GLU:OE2	2.41	0.54
3:X3:5:PHE:CZ	3:X3:30:LEU:HD22	2.42	0.54
3:F4:84:ARG:NH2	11:aA:143:SER:CB	2.66	0.54
4:M4:61:ASN:O	4:M4:63:GLY:N	2.40	0.54
3:Q4:7:LYS:HD2	3:Q4:101:ASP:OD1	2.07	0.54
12:L5:201:CYC:CMA	10:j5:591:ILE:CG2	2.85	0.54
12:N5:201:CYC:HB	12:N5:201:CYC:HMA3	1.73	0.54
3:Y4:104:VAL:HA	3:Y4:108:ARG:CB	2.37	0.54
8:E5:17:TYR:CG	1:F5:45:SER:HB3	2.43	0.54
8:G5:6:LYS:HE2	8:S5:21:GLY:HA3	1.89	0.54
8:Q5:104:ILE:HG23	8:Q5:156:LEU:HD21	1.89	0.54
8:Q5:126:VAL:HG23	12:Q5:201:CYC:HMC3	1.89	0.54
8:W5:127:ALA:HB2	8:W5:161:GLN:NE2	2.22	0.54
12:J6:201:CYC:HC	12:J6:201:CYC:HMD2	1.70	0.54
6:M6:104:ARG:NE	2:G6:16:GLY:HA3	2.23	0.54
9:i5:9:ALA:HA	9:i5:51:VAL:HA	1.89	0.54
10:j5:33:ARG:NH2	10:j5:39:GLU:OE2	2.40	0.54
10:j5:913:VAL:HG12	10:j5:913:VAL:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:929:PRO:HB3	1:J7:147:LYS:HG2	1.89	0.54
10:j5:1025:LEU:HD22	10:j5:1035:PHE:CB	2.15	0.54
10:j5:1052:PRO:HB3	1:r7:106:GLU:OE2	2.08	0.54
10:j5:1151:GLN:C	1:v7:122:PRO:HB3	2.33	0.54
10:k5:221:LYS:CA	10:k5:221:LYS:CE	2.85	0.54
10:k5:756:SER:HB2	9:z7:24:GLN:HG2	1.90	0.54
3:F6:82:CYS:HA	12:F6:201:CYC:C1D	2.38	0.54
8:S7:37:LEU:HD22	1:T7:24:LEU:HD22	1.89	0.54
8:S7:65:VAL:HG23	8:S7:66:VAL:N	2.21	0.54
12:F7:201:CYC:HB	12:F7:201:CYC:HMA3	1.72	0.54
8:I7:90:ARG:CZ	1:J7:16:GLY:HA2	2.37	0.54
8:M7:60:GLN:NE2	3:J9:114:LYS:HG2	2.22	0.54
8:a7:16:ARG:HG3	8:a7:16:ARG:NH1	2.20	0.54
1:b7:30:TYR:CD2	1:b7:30:TYR:C	2.85	0.54
1:d7:77:ARG:NH2	9:x7:63:ALA:HB2	2.17	0.54
2:E1:19:LEU:HD13	3:F1:98:LEU:HD22	1.89	0.54
8:s7:44:THR:OG1	1:t7:18:TYR:HD2	1.90	0.54
8:u7:80:LEU:CD1	12:u7:201:CYC:HAD2	2.38	0.54
9:z7:27:PHE:CD1	9:z7:27:PHE:C	2.86	0.54
9:y7:4:TYR:N	9:y7:58:THR:OG1	2.40	0.54
2:X8:22:THR:CG2	2:N8:2:LYS:HE2	2.38	0.54
3:L8:82:CYS:CB	12:a9:901:CYC:C4C	2.85	0.54
4:M8:200:ILE:CG2	5:Z8:52:ARG:HH21	2.21	0.54
4:M8:226:SER:OG	3:Y8:88:ILE:HG13	2.08	0.54
12:O8:202:CYC:HC	12:O8:202:CYC:HMD2	1.70	0.54
2:R8:19:LEU:HD13	3:S8:98:LEU:HD22	1.89	0.54
3:L9:84:ARG:HE	11:a9:406:LEU:CD2	2.20	0.54
4:M9:58:TYR:CD2	11:a9:496:ARG:NH1	2.76	0.54
3:Y8:89:ILE:HG12	3:Y8:92:TYR:CZ	2.43	0.54
5:Z8:22:LEU:O	5:Z8:37:HIS:HE1	1.91	0.54
3:B9:26:GLN:C	3:B9:30:LEU:HD13	2.31	0.54
2:W9:19:LEU:HD13	3:X9:98:LEU:HD22	1.89	0.54
11:a9:90:GLN:O	11:a9:93:LEU:HD13	2.08	0.54
11:a9:419:ARG:HH11	11:a9:419:ARG:CG	2.20	0.54
11:a9:585:GLU:HA	11:a9:588:VAL:O	2.06	0.54
11:a9:615:ARG:HH11	11:a9:615:ARG:CB	2.20	0.54
11:aA:25:GLU:C	11:aA:27:PHE:H	2.16	0.54
11:aA:75:ALA:HB1	11:aA:81:ASP:N	2.23	0.54
11:aA:800:THR:CG2	12:aA:901:CYC:HAA2	2.29	0.54
4:M1:28:HIS:HE1	4:M1:37:GLU:OE1	1.91	0.54
2:U1:19:LEU:HD13	3:V1:98:LEU:HD22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:38:MET:CE	3:B2:28:THR:OG1	2.56	0.54
2:E2:19:LEU:HD13	3:F2:98:LEU:HD22	1.89	0.54
12:JA:202:CYC:C1B	11:aA:512:TYR:HB2	2.32	0.53
4:MA:90:LYS:HE3	4:MA:220:TYR:CZ	2.43	0.53
5:NA:23:SER:C	5:NA:25:THR:H	2.15	0.53
2:SA:19:LEU:HD13	3:TA:98:LEU:HD22	1.89	0.53
2:O1:60:TYR:CB	2:O1:67:THR:CG2	2.83	0.53
2:Q1:19:LEU:HD13	3:R1:98:LEU:HD22	1.89	0.53
6:M2:127:SER:C	12:F2:201:CYC:HMA2	2.33	0.53
4:M3:61:ASN:O	4:M3:63:GLY:N	2.40	0.53
4:M3:90:LYS:HE3	4:M3:220:TYR:CZ	2.43	0.53
2:Q3:19:LEU:HD13	3:R3:98:LEU:HD22	1.89	0.53
2:W3:19:LEU:HD13	3:X3:98:LEU:HD22	1.89	0.53
3:S4:116:THR:HG23	3:S4:117:TYR:H	1.70	0.53
2:N4:65:TYR:O	2:N4:71:GLN:CG	2.54	0.53
3:O4:112:GLY:HA3	5:Z4:69:GLU:C	2.33	0.53
12:L5:201:CYC:OB	10:j5:588:VAL:CG2	2.56	0.53
8:O5:151:PHE:CB	8:E5:20:PRO:HB3	2.26	0.53
5:Z4:38:GLU:O	5:Z4:38:GLU:HG2	2.08	0.53
5:Z4:67:ILE:HD13	5:Z4:67:ILE:N	2.23	0.53
8:A5:15:ALA:HA	1:B5:90:ARG:NH1	2.23	0.53
8:A5:71:ASN:OD1	12:A5:201:CYC:HMD1	2.00	0.53
1:D5:5:ILE:HG22	1:D5:5:ILE:O	2.08	0.53
12:D5:201:CYC:C4B	9:z5:38:PHE:CE2	2.91	0.53
8:E5:77:MET:O	12:E5:201:CYC:HMD3	2.08	0.53
12:H5:201:CYC:HBB2	9:i5:21:ARG:CG	2.38	0.53
12:J5:201:CYC:HBB1	9:i5:42:GLN:NE2	2.21	0.53
12:Z5:201:CYC:HB	12:Z5:201:CYC:HMA3	1.73	0.53
2:K6:23:GLU:OE2	2:A6:2:LYS:NZ	2.41	0.53
3:L6:65:ASP:OD2	1:b7:64:ASP:CB	2.56	0.53
9:z5:11:ILE:HD12	9:z5:28:PHE:CE2	2.27	0.53
10:j5:1139:SER:HB2	12:v7:201:CYC:O2D	2.07	0.53
10:k5:199:THR:CG2	12:k5:1201:CYC:CBC	2.80	0.53
10:k5:965:GLN:C	1:p7:14:VAL:HG12	2.33	0.53
10:k5:1102:TYR:C	10:k5:1102:TYR:CD1	2.85	0.53
2:A6:38:MET:CE	3:B6:28:THR:OG1	2.56	0.53
3:F6:72:ASN:OD1	12:F6:201:CYC:HBD2	2.08	0.53
8:O7:29:PHE:CD1	8:O7:99:GLY:HA3	2.43	0.53
8:O7:95:GLY:H	8:O7:104:ILE:HD11	1.73	0.53
1:P7:75:THR:C	8:Q7:111:GLY:HA3	2.33	0.53
1:H7:136:VAL:CA	11:aA:563:PHE:CZ	2.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J7:75:THR:C	8:K7:111:GLY:HA3	2.32	0.53
8:U7:44:THR:OG1	1:V7:18:TYR:HD2	1.91	0.53
8:U7:52:LYS:HB2	11:a9:27:PHE:CE2	2.43	0.53
8:a7:29:PHE:CZ	8:a7:98:ALA:C	2.76	0.53
2:A8:2:LYS:NZ	2:K8:23:GLU:OE2	2.41	0.53
3:D8:5:PHE:CZ	3:D8:30:LEU:HD22	2.42	0.53
8:o7:4:LEU:HD23	8:o7:26:ILE:CD1	2.38	0.53
9:y7:9:ALA:CB	9:y7:44:ILE:HD11	2.39	0.53
2:T8:19:LEU:HD13	3:U8:98:LEU:HD22	1.89	0.53
3:Q8:85:ASP:CB	12:Z8:301:CYC:HBC3	2.04	0.53
5:N9:54:LEU:HB3	12:T9:301:CYC:O2A	2.07	0.53
3:Y8:87:GLU:HG2	3:Y8:91:ARG:HE	1.73	0.53
3:Y8:114:LYS:HA	3:Y8:124:THR:HG21	1.89	0.53
2:A9:60:TYR:CB	2:A9:67:THR:CG2	2.82	0.53
3:F9:125:ARG:HD2	3:V9:14:LEU:HD11	1.89	0.53
11:a9:643:LEU:HD11	11:a9:766:ASN:HA	1.90	0.53
11:aA:287:ALA:O	11:aA:288:ARG:CD	2.55	0.53
11:aA:616:PRO:HA	3:H1:69:PRO:O	2.08	0.53
11:aA:640:ALA:CB	11:aA:767:THR:HG21	2.38	0.53
5:N1:41:GLN:HG2	5:N1:44:TYR:CE1	2.44	0.53
2:AA:60:TYR:CB	2:AA:67:THR:CG2	2.83	0.53
3:L3:120:LEU:HD21	11:a9:731:GLN:HG3	1.86	0.53
4:M3:152:TYR:CD1	4:M3:152:TYR:C	2.87	0.53
2:U3:19:LEU:HD13	3:V3:98:LEU:HD22	1.89	0.53
3:W4:5:PHE:CZ	3:W4:30:LEU:HD22	2.43	0.53
8:K5:17:TYR:CG	1:L5:45:SER:HB3	2.43	0.53
1:L5:76:ARG:CA	8:G5:111:GLY:HA3	2.36	0.53
8:M5:90:ARG:CZ	1:N5:16:GLY:CA	2.86	0.53
8:C5:35:ARG:NH2	8:C5:145:ASP:OD1	2.42	0.53
1:X5:3:ASP:H	1:X5:6:THR:HG1	1.56	0.53
12:a5:201:CYC:HB	12:a5:201:CYC:CMA	2.21	0.53
1:b5:24:LEU:HD21	10:k5:57:VAL:CG1	2.37	0.53
10:j5:361:PHE:HZ	10:j5:378:TYR:CE2	2.25	0.53
10:j5:489:ASN:HD22	10:j5:492:ILE:HG12	1.73	0.53
10:j5:1102:TYR:C	10:j5:1102:TYR:CD1	2.85	0.53
10:k5:70:ARG:HG2	10:k5:209:ASN:OD1	2.08	0.53
10:k5:283:ARG:N	10:k5:283:ARG:CD	2.72	0.53
10:k5:1118:THR:HG23	12:k5:1204:CYC:C3A	2.38	0.53
10:k5:1119:LEU:CD2	1:n7:87:TYR:OH	2.53	0.53
1:H7:140:LEU:HG	11:aA:561:ALA:CB	2.20	0.53
12:N7:201:CYC:HB	12:N7:201:CYC:HMA3	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h7:62:TYR:CE1	12:i7:201:CYC:O1D	2.61	0.53
8:U7:52:LYS:HD2	11:a9:27:PHE:CG	2.43	0.53
1:V7:75:THR:C	8:W7:111:GLY:HA3	2.32	0.53
8:W7:4:LEU:HD23	8:W7:26:ILE:CD1	2.38	0.53
3:B8:119:ALA:CB	4:M8:69:ILE:CG2	2.67	0.53
8:m7:27:LYS:O	8:m7:30:VAL:HG22	2.09	0.53
8:o7:44:THR:HG22	8:o7:44:THR:O	2.08	0.53
1:v7:139:GLY:HA3	11:aA:342:ARG:NE	2.23	0.53
3:L8:109:CYS:SG	12:a9:901:CYC:HMB1	2.47	0.53
4:M8:224:PHE:C	12:M8:301:CYC:CGA	2.65	0.53
4:M9:81:ASP:N	3:Z9:111:ASN:HD21	2.06	0.53
5:N9:41:GLN:HG2	5:N9:44:TYR:CE1	2.43	0.53
2:O9:2:LYS:NZ	2:Y9:23:GLU:OE2	2.41	0.53
2:G9:19:LEU:HD13	3:H9:98:LEU:HD22	1.89	0.53
11:aA:388:VAL:HG11	11:aA:419:ARG:HH11	1.73	0.53
11:aA:419:ARG:HH11	11:aA:419:ARG:CG	2.20	0.53
4:M1:48:PRO:HG2	4:M1:48:PRO:O	2.06	0.53
5:N1:37:HIS:O	5:N1:37:HIS:HD2	1.92	0.53
2:EA:19:LEU:HD13	3:FA:98:LEU:HD22	1.89	0.53
2:GA:19:LEU:HD13	3:HA:98:LEU:HD22	1.89	0.53
5:NA:11:ARG:HD2	3:RA:108:ARG:NH2	2.23	0.53
2:QA:32:GLN:CG	2:UA:28:ASN:HD21	2.14	0.53
2:S1:19:LEU:HD13	3:T1:98:LEU:HD22	1.89	0.53
2:I3:15:GLN:HG2	11:a9:654:ALA:CB	2.36	0.53
3:L2:75:PRO:HD3	3:L2:78:ARG:HE	1.73	0.53
2:A3:38:MET:CE	3:B3:28:THR:OG1	2.56	0.53
3:L3:88:ILE:CD1	3:L3:91:ARG:HH21	2.21	0.53
4:M3:17:VAL:CG1	4:M3:18:THR:N	2.71	0.53
4:M3:28:HIS:HE1	4:M3:37:GLU:OE1	1.91	0.53
3:U4:120:LEU:CD1	4:M4:254:LEU:HD21	2.38	0.53
4:M4:110:TYR:CE2	4:M4:124:ARG:NH1	2.77	0.53
3:Q4:84:ARG:NH2	5:Z4:33:GLY:O	2.41	0.53
1:N5:113:LYS:HE2	1:Z5:155:TYR:OH	2.07	0.53
8:O5:35:ARG:NH2	8:O5:145:ASP:OD1	2.42	0.53
5:Z4:39:PRO:CG	12:Z4:301:CYC:HHD	2.38	0.53
12:C5:201:CYC:HB	12:C5:201:CYC:CMA	2.21	0.53
8:G5:15:ALA:HA	1:H5:90:ARG:NH1	2.23	0.53
8:c5:65:VAL:HG23	8:c5:66:VAL:HG23	1.89	0.53
12:T5:201:CYC:HB	12:T5:201:CYC:HMA3	1.73	0.53
8:Y5:104:ILE:HG23	8:Y5:156:LEU:HD21	1.89	0.53
6:M6:141:ARG:NH2	6:M6:202:ASP:OD1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1052:PRO:HB3	11:aA:32:ARG:HH21	1.72	0.53
10:k5:306:GLU:OE2	10:k5:362:LYS:HE2	2.08	0.53
2:C6:19:LEU:HD13	3:D6:98:LEU:HD22	1.89	0.53
8:O7:90:ARG:CZ	1:P7:16:GLY:HA2	2.37	0.53
8:O7:111:GLY:C	1:N7:75:THR:HB	2.32	0.53
8:S7:49:ARG:HH11	11:aA:550:PHE:HE1	1.56	0.53
8:c7:94:TYR:CD2	1:d7:9:ILE:CG2	2.91	0.53
8:o7:90:ARG:HB2	1:p7:18:TYR:OH	2.05	0.53
2:X8:19:LEU:HD13	3:Y8:98:LEU:HD22	1.89	0.53
2:X8:23:GLU:OE2	2:N8:2:LYS:NZ	2.41	0.53
4:M8:28:HIS:HE1	4:M8:37:GLU:OE1	1.91	0.53
4:M8:110:TYR:CE2	4:M8:124:ARG:NH1	2.77	0.53
4:M8:152:TYR:C	4:M8:152:TYR:CD1	2.87	0.53
4:M8:225:LYS:HE3	3:Y8:81:ALA:CB	2.25	0.53
3:O8:88:ILE:HD11	5:Z8:54:LEU:CD1	2.37	0.53
4:M9:185:ALA:HB1	12:V9:201:CYC:O1A	2.08	0.53
11:a9:615:ARG:HB3	11:a9:615:ARG:NH1	2.20	0.53
11:a9:640:ALA:CB	11:a9:767:THR:HG21	2.38	0.53
11:aA:90:GLN:O	11:aA:93:LEU:HD13	2.08	0.53
11:aA:325:LEU:HD23	11:aA:325:LEU:N	2.23	0.53
11:aA:818:ARG:HH11	11:aA:818:ARG:CG	2.10	0.53
3:L1:88:ILE:CD1	3:L1:91:ARG:HH21	2.21	0.53
3:JA:19:LEU:HD12	3:JA:24:LEU:HD21	1.89	0.53
4:MA:81:ASP:N	3:ZA:111:ASN:HD21	2.06	0.53
4:MA:185:ALA:CA	12:VA:201:CYC:O2A	2.51	0.53
2:UA:19:LEU:HD13	3:VA:98:LEU:HD22	1.89	0.53
2:K3:23:GLU:OE2	2:A3:2:LYS:NZ	2.41	0.53
2:K2:19:LEU:HD13	3:L2:98:LEU:HD22	1.89	0.53
3:B3:85:ASP:OD2	12:B3:202:CYC:ND	2.30	0.53
3:L3:1:MET:HE2	11:a9:708:HIS:ND1	2.24	0.53
4:M3:192:GLN:O	4:M3:192:GLN:HG3	2.05	0.53
5:N3:23:SER:C	5:N3:25:THR:H	2.15	0.53
2:S3:19:LEU:HD13	3:T3:98:LEU:HD22	1.89	0.53
3:B1:127:VAL:HG22	12:B1:202:CYC:HMC3	1.90	0.53
3:F4:113:LEU:CB	4:M4:5:THR:HG21	2.26	0.53
4:M4:233:GLU:HG3	3:Y4:112:GLY:CA	2.39	0.53
3:O4:107:ASP:O	5:Z4:67:ILE:N	2.41	0.53
3:Q4:116:THR:O	3:Q4:119:ALA:N	2.40	0.53
8:K5:125:ALA:O	8:K5:128:GLU:HB3	2.09	0.53
1:L5:75:THR:CG2	8:G5:115:MET:CE	2.75	0.53
12:L5:201:CYC:CBB	10:j5:588:VAL:HG21	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E5:201:CYC:HB	12:E5:201:CYC:CMA	2.21	0.53
8:G5:109:ILE:HD13	8:G5:159:ALA:HB1	1.91	0.53
8:Q5:4:LEU:HD23	8:Q5:26:ILE:CD1	2.38	0.53
8:Q5:8:ILE:CG2	1:R5:94:TYR:CG	2.90	0.53
8:S5:14:GLU:CD	10:j5:538:PHE:HE2	2.17	0.53
8:S5:104:ILE:HG23	8:S5:156:LEU:HD21	1.89	0.53
8:U5:79:ALA:HB1	6:M6:31:ASP:C	2.33	0.53
1:X5:106:GLU:HG3	10:j5:505:VAL:CA	2.38	0.53
12:X5:201:CYC:HB	12:X5:201:CYC:HMA3	1.72	0.53
3:J6:88:ILE:HD11	6:M6:185:PHE:CZ	2.43	0.53
2:K6:22:THR:CG2	2:A6:2:LYS:HE2	2.38	0.53
9:z5:16:ARG:NE	9:z5:16:ARG:HA	2.23	0.53
9:i5:56:LEU:C	9:i5:58:THR:N	2.61	0.53
10:j5:218:ALA:O	10:j5:221:LYS:HB2	2.09	0.53
10:j5:489:ASN:ND2	10:j5:492:ILE:HG12	2.24	0.53
10:j5:1105:ILE:HD13	10:j5:1115:ARG:NH2	2.15	0.53
10:k5:820:HIS:ND1	10:k5:859:ILE:HD13	1.93	0.53
12:D7:201:CYC:HB	12:D7:201:CYC:HMA3	1.73	0.53
8:g7:35:ARG:NH2	8:g7:145:ASP:OD1	2.42	0.53
1:j7:83:ARG:NH1	9:y7:38:PHE:CE1	2.76	0.53
8:W7:126:VAL:HG23	12:W7:201:CYC:HMC3	1.89	0.53
8:a7:27:LYS:O	8:a7:30:VAL:HG22	2.09	0.53
8:m7:44:THR:OG1	1:n7:18:TYR:HD2	1.90	0.53
8:s7:27:LYS:O	8:s7:30:VAL:HG22	2.09	0.53
8:s7:35:ARG:NH2	8:s7:145:ASP:OD1	2.41	0.53
9:z7:7:VAL:HG11	9:z7:37:TRP:CE3	2.43	0.53
4:M8:48:PRO:HG2	4:M8:48:PRO:O	2.06	0.53
4:M8:215:GLU:O	4:M8:215:GLU:CG	2.57	0.53
4:M9:17:VAL:CG1	4:M9:18:THR:N	2.71	0.53
4:M9:176:ARG:HH11	4:M9:176:ARG:HG2	1.74	0.53
2:A9:38:MET:CE	3:B9:28:THR:OG1	2.56	0.53
3:F9:150:ARG:HH11	12:F9:302:CYC:C2C	2.19	0.53
2:U9:19:LEU:HD13	3:V9:98:LEU:HD22	1.89	0.53
11:a9:312:ASP:HB2	11:a9:315:LEU:HB3	0.72	0.53
11:aA:643:LEU:HD13	11:aA:766:ASN:HB3	1.80	0.53
4:M1:185:ALA:HA	12:Z1:202:CYC:HBA2	1.90	0.53
3:BA:107:ASP:CG	11:aA:382:ASN:ND2	2.59	0.53
12:BA:201:CYC:O2A	4:MA:35:THR:CA	2.54	0.53
2:IA:113:LEU:CD2	2:IA:161:LEU:HD23	2.18	0.53
3:JA:88:ILE:CD1	11:aA:512:TYR:CG	2.92	0.53
12:JA:202:CYC:CBA	11:aA:510:PHE:O	2.50	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:158:PHE:CZ	2:UA:10:ALA:CB	2.92	0.53
2:K3:22:THR:CG2	2:A3:2:LYS:HE2	2.38	0.53
3:B3:88:ILE:CG2	12:B3:202:CYC:HMB1	2.37	0.53
2:E3:19:LEU:HD13	3:F3:98:LEU:HD22	1.89	0.53
12:F3:201:CYC:HBA2	4:M3:36:TYR:CD2	2.43	0.53
3:B4:107:ASP:O	4:M4:61:ASN:CA	2.57	0.53
5:N3:22:LEU:O	5:N3:37:HIS:HE1	1.92	0.53
2:I4:112:GLY:N	11:aA:133:LEU:HD21	2.23	0.53
3:L4:65:ASP:C	11:aA:82:GLN:OE1	2.48	0.53
2:N4:2:LYS:HE2	2:X4:22:THR:CG2	2.38	0.53
8:K5:22:GLU:OE2	8:U5:6:LYS:NZ	2.41	0.53
5:Z4:24:PRO:HD2	12:Z4:301:CYC:O2A	2.07	0.53
1:f5:114:GLU:HG2	10:j5:491:THR:CB	2.34	0.53
8:W5:17:TYR:CZ	1:X5:44:ILE:HG21	2.16	0.53
1:X5:65:LEU:CG	10:j5:706:PRO:HG3	2.37	0.53
1:b5:24:LEU:HB3	10:k5:54:ILE:HG23	1.91	0.53
3:L6:5:PHE:CZ	3:L6:30:LEU:HD22	2.42	0.53
10:j5:221:LYS:HA	10:j5:221:LYS:CE	2.37	0.53
10:j5:549:LYS:HD3	10:j5:549:LYS:C	2.33	0.53
10:j5:756:SER:O	9:w7:21:ARG:HD3	2.08	0.53
10:j5:965:GLN:H	1:t7:69:GLY:HA3	1.54	0.53
10:j5:1009:ALA:CA	1:v7:87:TYR:HE1	2.20	0.53
10:k5:16:LEU:N	10:k5:16:LEU:HD13	2.22	0.53
10:k5:20:VAL:O	10:k5:24:THR:CG2	2.51	0.53
10:k5:489:ASN:HD22	10:k5:492:ILE:HG12	1.73	0.53
10:k5:1067:LEU:CD1	10:k5:1101:GLU:OE1	2.56	0.53
3:B6:77:ARG:HH11	3:B6:77:ARG:CG	2.18	0.53
12:R7:201:CYC:CGA	9:z7:34:TYR:OH	2.53	0.53
1:J7:53:LYS:HZ1	8:K7:120:GLN:CD	2.17	0.53
12:J7:201:CYC:HB	12:J7:201:CYC:HMA3	1.73	0.53
12:h7:201:CYC:HBB1	9:y7:21:ARG:NE	2.22	0.53
8:i7:21:GLY:N	8:s7:101:VAL:CG2	2.21	0.53
12:f7:201:CYC:HMD1	12:f7:201:CYC:NC	2.09	0.53
3:L8:65:ASP:C	11:a9:82:GLN:HE22	2.16	0.53
4:M8:205:ASP:CB	5:Z8:59:ARG:NH1	2.69	0.53
3:O8:115:GLU:HB3	5:Z8:70:ILE:O	2.08	0.53
12:F1:201:CYC:CBA	4:M1:36:TYR:CE2	2.92	0.53
4:M9:134:ASN:N	12:R9:201:CYC:HBA2	2.24	0.53
4:M9:139:VAL:HG12	4:M9:139:VAL:O	2.09	0.53
2:O9:2:LYS:HE2	2:Y9:22:THR:CG2	2.38	0.53
5:Z8:67:ILE:N	5:Z8:67:ILE:HD13	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I9:113:LEU:CD2	2:I9:161:LEU:HD23	2.18	0.53
11:a9:537:ASP:HB3	11:a9:543:GLN:CB	2.38	0.53
3:H1:81:ALA:HB1	12:H1:201:CYC:C2D	2.30	0.53
2:C2:19:LEU:HD13	3:D2:98:LEU:HD22	1.89	0.53
5:NA:22:LEU:O	5:NA:37:HIS:HE1	1.92	0.53
2:QA:76:ASP:CB	2:U1:140:SER:C	2.80	0.53
2:G2:19:LEU:HD13	3:H2:98:LEU:HD22	1.89	0.53
3:J2:108:ARG:CZ	6:M2:155:ASN:O	2.55	0.53
6:M2:141:ARG:NH2	6:M2:202:ASP:OD1	2.42	0.53
3:B4:105:LEU:HG	3:B4:110:LEU:HD11	1.90	0.53
4:M3:110:TYR:CE2	4:M3:124:ARG:NH1	2.77	0.53
5:N3:41:GLN:HG2	5:N3:44:TYR:CE1	2.44	0.53
4:M4:61:ASN:OD1	4:M4:62:LYS:HG2	2.07	0.53
2:N4:112:GLY:CA	5:Z4:34:LEU:CA	2.83	0.53
8:K5:127:ALA:O	8:K5:157:VAL:HG22	2.08	0.53
8:A5:5:THR:HG21	10:k5:559:THR:HG21	1.91	0.53
8:A5:88:TYR:CE2	12:A5:201:CYC:HMB3	2.44	0.53
8:A5:104:ILE:HG23	8:A5:156:LEU:HD21	1.89	0.53
8:A5:109:ILE:HD13	8:A5:159:ALA:HB1	1.91	0.53
8:A5:115:MET:HE2	1:F5:75:THR:CG2	2.34	0.53
12:H5:201:CYC:HB	12:H5:201:CYC:HMA3	1.73	0.53
8:I5:88:TYR:CE2	12:I5:201:CYC:CMB	2.91	0.53
8:Q5:127:ALA:HB2	8:Q5:161:GLN:NE2	2.22	0.53
6:M6:205:GLU:OE1	6:M6:219:ARG:NH2	2.42	0.53
10:j5:542:GLN:HE21	10:j5:560:VAL:CG1	2.13	0.53
10:j5:741:GLN:HG3	1:J7:77:ARG:CZ	2.30	0.53
10:k5:218:ALA:O	10:k5:221:LYS:HB2	2.09	0.53
10:k5:221:LYS:HE2	10:k5:221:LYS:CA	2.37	0.53
10:k5:1118:THR:HG21	1:n7:83:ARG:NH1	2.23	0.53
8:S7:25:ARG:CZ	8:G7:25:ARG:NE	2.71	0.53
8:C7:27:LYS:O	8:C7:30:VAL:HG22	2.09	0.53
8:C7:95:GLY:H	8:C7:104:ILE:HD11	1.74	0.53
8:E7:104:ILE:HG23	8:E7:156:LEU:HD21	1.89	0.53
8:G7:109:ILE:HD13	8:G7:159:ALA:HB1	1.91	0.53
8:I7:35:ARG:NH2	8:I7:145:ASP:OD1	2.42	0.53
8:i7:122:PRO:HB2	8:i7:125:ALA:H	1.74	0.53
12:X7:201:CYC:O1A	9:w7:34:TYR:OH	2.27	0.53
8:a7:11:ALA:O	8:a7:12:ASP:C	2.50	0.53
8:a7:29:PHE:CD1	8:a7:99:GLY:HA3	2.43	0.53
8:a7:95:GLY:H	8:a7:104:ILE:HD11	1.74	0.53
1:b7:75:THR:HG21	8:c7:112:VAL:HG23	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c7:101:VAL:HB	8:c7:155:TYR:OH	2.08	0.53
8:e7:109:ILE:HD13	8:e7:159:ALA:HB1	1.91	0.53
2:A8:60:TYR:CB	2:A8:67:THR:CG2	2.83	0.53
4:M8:230:GLN:O	4:M8:231:THR:HG23	2.09	0.53
12:F1:201:CYC:HBA2	4:M1:36:TYR:CD2	2.43	0.53
5:N9:23:SER:C	5:N9:25:THR:H	2.15	0.53
3:F9:68:ARG:HH22	3:Z9:68:ARG:CZ	2.22	0.53
11:aA:615:ARG:NH1	11:aA:615:ARG:CB	2.72	0.53
11:aA:801:ASN:HD22	11:aA:801:ASN:C	2.10	0.53
4:M1:152:TYR:CD1	4:M1:152:TYR:C	2.87	0.53
5:N1:31:TRP:HZ2	3:T1:92:TYR:OH	1.89	0.53
1:A:75:THR:HG1	10:k5:182:ASN:HA	1.72	0.53
2:IA:13:ASP:OD1	11:aA:515:GLY:HA2	2.09	0.53
2:IA:16:GLY:CA	11:aA:514:VAL:HG11	2.36	0.53
4:MA:134:ASN:N	12:RA:201:CYC:HBA2	2.24	0.53
5:NA:2:SER:O	5:NA:2:SER:OG	2.16	0.53
2:OA:2:LYS:HE2	2:YA:22:THR:CG2	2.38	0.53
2:OA:38:MET:CE	3:PA:28:THR:OG1	2.56	0.53
2:A4:2:LYS:NZ	2:K4:23:GLU:OE2	2.41	0.53
3:B4:85:ASP:HB3	12:B4:202:CYC:H3C	1.85	0.53
3:B1:82:CYS:SG	12:B1:202:CYC:C4C	2.97	0.53
3:S4:127:VAL:CG2	12:S4:202:CYC:HMC2	2.39	0.53
4:M4:100:SER:CA	3:Q4:1:MET:HE3	2.28	0.53
4:M4:215:GLU:O	4:M4:215:GLU:CG	2.57	0.53
8:K5:112:VAL:CA	1:J5:75:THR:HB	2.37	0.53
8:O5:95:GLY:H	8:O5:104:ILE:HD11	1.74	0.53
8:E5:26:ILE:O	8:E5:30:VAL:HG13	2.09	0.53
8:I5:29:PHE:CD1	8:I5:99:GLY:HA3	2.43	0.53
8:U5:79:ALA:O	8:U5:83:ARG:HG3	2.09	0.53
8:U5:109:ILE:HD13	8:U5:159:ALA:HB1	1.91	0.53
6:M6:67:GLY:CA	3:H6:14:LEU:HD22	2.38	0.53
10:j5:49:ASP:OD1	10:j5:49:ASP:N	2.39	0.53
10:j5:221:LYS:NZ	10:j5:221:LYS:CB	2.72	0.53
10:j5:682:GLU:HG2	10:j5:682:GLU:O	2.08	0.53
10:k5:275:THR:HG21	10:k5:286:VAL:HG12	1.87	0.53
3:F6:59:LEU:HD21	12:F6:201:CYC:C2C	2.39	0.53
8:G7:51:VAL:HG11	11:a9:579:PHE:CE1	2.43	0.53
8:i7:88:TYR:O	8:i7:156:LEU:HD11	2.09	0.53
8:U7:109:ILE:HD13	8:U7:159:ALA:HB1	1.91	0.53
12:X7:201:CYC:HB	12:X7:201:CYC:HMA3	1.73	0.53
8:a7:35:ARG:NH2	8:a7:145:ASP:OD1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c7:11:ALA:HB1	1:d7:94:TYR:OH	2.08	0.53
8:c7:88:TYR:O	8:c7:156:LEU:HD11	2.09	0.53
8:m7:29:PHE:CD1	8:m7:99:GLY:HA3	2.43	0.53
9:x7:3:ARG:CD	9:x7:67:VAL:HG13	2.38	0.53
3:H8:119:ALA:CA	11:a9:266:ASN:HD22	2.11	0.53
4:M8:96:LYS:HB3	3:Q8:109:CYS:SG	2.49	0.53
4:M8:140:ARG:HH12	4:M8:210:ILE:HG13	1.73	0.53
2:N8:14:SER:CB	5:Z8:62:ARG:HD2	2.36	0.53
4:M9:110:TYR:CE2	4:M9:124:ARG:NH1	2.77	0.53
5:N9:22:LEU:O	5:N9:37:HIS:HE1	1.92	0.53
11:a9:581:ARG:HH11	11:a9:581:ARG:CG	2.14	0.53
11:a9:598:SER:HB3	11:a9:599:PRO:HB3	1.90	0.53
11:aA:275:THR:O	11:aA:278:LEU:HD13	2.02	0.53
11:aA:632:ILE:CG2	11:aA:634:ALA:CA	2.86	0.53
11:aA:713:ASN:ND2	3:L1:116:THR:OG1	2.41	0.53
4:M1:245:ASP:CB	3:X1:108:ARG:HA	2.38	0.53
2:IA:19:LEU:HD12	3:JA:41:VAL:CG1	2.39	0.53
4:MA:61:ASN:O	4:MA:63:GLY:N	2.40	0.53
4:MA:158:PHE:CZ	2:UA:10:ALA:O	2.62	0.53
7:N2:5:VAL:HB	2:E2:13:ASP:OD2	2.08	0.53
7:N2:34:LEU:HB2	12:D2:201:CYC:OB	2.09	0.53
3:B4:116:THR:HG23	3:B4:117:TYR:H	1.70	0.53
4:M3:245:ASP:CB	3:X3:108:ARG:HA	2.38	0.53
5:N3:24:PRO:HD3	12:T3:301:CYC:HBA2	1.90	0.53
5:N3:67:ILE:N	5:N3:67:ILE:HD13	2.23	0.53
3:B1:84:ARG:NH1	11:aA:680:SER:HB3	2.24	0.53
3:F4:116:THR:N	4:M4:3:VAL:HG12	2.23	0.53
4:M4:140:ARG:HH11	4:M4:144:ARG:NE	2.02	0.53
4:M4:215:GLU:OE2	12:Z4:301:CYC:HAB1	1.98	0.53
3:Q4:117:TYR:HE1	5:Z4:39:PRO:CG	2.22	0.53
8:O5:27:LYS:O	8:O5:30:VAL:HG22	2.09	0.53
1:B5:106:GLU:O	10:k5:543:ASN:ND2	2.40	0.53
1:D5:4:ALA:HB2	1:D5:98:ALA:O	2.09	0.53
8:I5:37:LEU:HA	8:I5:97:VAL:HG12	1.89	0.53
1:J5:4:ALA:HB2	1:J5:98:ALA:O	2.09	0.53
1:d5:28:LYS:CE	1:n7:143:PRO:HG2	2.24	0.53
8:Q5:109:ILE:HD13	8:Q5:159:ALA:HB1	1.91	0.53
8:S5:41:GLN:NE2	1:D7:143:PRO:HG3	2.17	0.53
8:U5:27:LYS:O	8:U5:30:VAL:HG22	2.09	0.53
8:a5:27:LYS:O	8:a5:30:VAL:HG22	2.09	0.53
3:L6:132:GLN:NE2	1:d7:15:GLN:OE1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:156:SER:OG	12:j5:1201:CYC:CAC	2.56	0.53
10:j5:190:LEU:CD2	12:j5:1201:CYC:ND	2.67	0.53
10:j5:542:GLN:NE2	10:j5:560:VAL:HG13	2.12	0.53
10:j5:824:PRO:HD3	1:H7:106:GLU:O	2.09	0.53
10:k5:187:ARG:HB3	10:k5:237:ASP:OD1	2.08	0.53
10:k5:367:ARG:NH1	10:k5:410:GLU:OE2	2.42	0.53
10:k5:1085:GLY:HA2	1:l7:87:TYR:HE1	1.73	0.53
3:F6:59:LEU:HD21	12:F6:201:CYC:CMC	2.38	0.53
8:I7:6:LYS:HZ1	8:W7:22:GLU:HG3	1.73	0.53
12:L7:201:CYC:HB	12:L7:201:CYC:HMA3	1.72	0.53
8:Y7:109:ILE:HD13	8:Y7:159:ALA:HB1	1.91	0.53
8:a7:107:ILE:CD1	1:b7:13:ASP:OD2	2.57	0.53
8:o7:45:GLU:OE2	8:o7:45:GLU:HA	2.09	0.53
8:s7:109:ILE:HD13	8:s7:159:ALA:HB1	1.91	0.53
8:u7:2:SER:CB	1:v7:5:ILE:HG21	2.38	0.53
8:u7:18:LEU:CD1	1:v7:97:LEU:HD13	2.37	0.53
8:u7:26:ILE:O	8:u7:30:VAL:HG13	2.09	0.53
4:M8:90:LYS:HE3	4:M8:220:TYR:CZ	2.43	0.53
4:M8:230:GLN:CD	12:M8:301:CYC:HMA2	2.34	0.53
3:Q8:85:ASP:OD2	12:Z8:301:CYC:CAC	2.57	0.53
4:M9:61:ASN:O	4:M9:63:GLY:N	2.40	0.53
4:M9:158:PHE:CZ	2:U9:10:ALA:O	2.62	0.53
4:M9:220:TYR:CD1	4:M9:220:TYR:C	2.85	0.53
11:a9:59:ARG:HA	11:a9:62:MET:HG2	1.90	0.53
11:a9:632:ILE:CG2	11:a9:634:ALA:CA	2.86	0.53
11:aA:425:VAL:CG2	11:aA:502:ASN:HA	2.38	0.53
11:aA:523:GLN:HE22	11:aA:548:LEU:HD13	1.73	0.53
2:A2:65:TYR:O	2:A2:71:GLN:CG	2.54	0.53
12:F3:202:CYC:HC	12:F3:202:CYC:HMD2	1.70	0.53
4:M3:269:SER:HA	3:V3:111:ASN:ND2	2.20	0.53
4:M4:148:LYS:O	4:M4:148:LYS:HG2	2.09	0.53
2:N4:2:LYS:NZ	2:X4:23:GLU:OE2	2.41	0.53
8:A5:26:ILE:O	8:A5:30:VAL:HG13	2.09	0.53
1:B5:14:VAL:HG13	10:k5:556:GLY:N	2.24	0.53
8:C5:95:GLY:H	8:C5:104:ILE:HD11	1.74	0.53
12:d5:201:CYC:HMA2	10:j5:379:PHE:CE1	2.44	0.53
12:P5:201:CYC:HBB2	10:k5:623:VAL:CB	2.39	0.53
8:Q5:26:ILE:O	8:Q5:30:VAL:HG13	2.09	0.53
8:S5:109:ILE:HD13	8:S5:159:ALA:HB1	1.91	0.53
8:U5:83:ARG:CG	6:M6:31:ASP:CB	2.87	0.53
8:W5:116:TYR:HB3	8:W5:123:ILE:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Y5:109:ILE:HD13	8:Y5:159:ALA:HB1	1.91	0.53
12:Z5:201:CYC:NB	10:k5:379:PHE:HZ	2.05	0.53
1:b5:24:LEU:HD21	10:k5:57:VAL:HG12	1.91	0.53
10:j5:1026:LYS:C	10:j5:1028:ASN:N	2.66	0.53
10:j5:1067:LEU:CD1	10:j5:1101:GLU:OE1	2.56	0.53
10:k5:372:ARG:O	10:k5:372:ARG:HG3	2.09	0.53
10:k5:682:GLU:O	10:k5:682:GLU:HG2	2.08	0.53
10:k5:1023:SER:CA	12:k5:1202:CYC:HBA1	2.39	0.53
8:C7:109:ILE:HD13	8:C7:159:ALA:HB1	1.91	0.53
8:I7:6:LYS:NZ	8:W7:22:GLU:HG3	2.24	0.53
8:I7:25:ARG:HH22	8:W7:25:ARG:NE	2.00	0.53
8:I7:109:ILE:HD13	8:I7:159:ALA:HB1	1.91	0.53
1:L7:49:THR:HG21	8:U7:161:GLN:HG2	1.91	0.53
8:M7:109:ILE:HD13	8:M7:159:ALA:HB1	1.91	0.53
8:i7:58:LEU:HD13	8:i7:128:GLU:HB3	1.90	0.53
1:j7:110:ASN:ND2	9:y7:51:VAL:H	2.07	0.53
1:T7:110:ASN:ND2	9:w7:57:PHE:C	2.67	0.53
8:c7:20:PRO:HD3	8:m7:155:TYR:HB2	1.80	0.53
8:c7:122:PRO:HB2	8:c7:125:ALA:H	1.74	0.53
8:e7:26:ILE:O	8:e7:30:VAL:HG13	2.09	0.53
8:o7:26:ILE:O	8:o7:30:VAL:HG13	2.09	0.53
8:o7:30:VAL:CA	1:p7:31:PHE:HD1	2.20	0.53
8:q7:75:GLU:CA	11:aA:53:VAL:HG11	2.39	0.53
8:u7:94:TYR:HE1	1:v7:18:TYR:HA	1.74	0.53
8:u7:104:ILE:HG23	8:u7:156:LEU:HD21	1.89	0.53
8:u7:109:ILE:HD13	8:u7:159:ALA:HB1	1.91	0.53
9:y7:14:LEU:HD13	9:y7:14:LEU:O	2.09	0.53
3:L8:130:ALA:HB1	12:a9:901:CYC:CBC	2.39	0.53
3:O8:112:GLY:CA	5:Z8:69:GLU:C	2.82	0.53
12:L9:202:CYC:O1D	11:a9:538:ARG:NE	2.37	0.53
4:M9:152:TYR:C	4:M9:152:TYR:CD1	2.87	0.53
4:M9:273:ILE:CG2	2:W9:107:ASP:O	2.57	0.53
5:Z8:38:GLU:N	12:Z8:301:CYC:CMB	2.70	0.53
3:J9:88:ILE:CD1	11:a9:512:TYR:CG	2.91	0.53
12:J9:202:CYC:CBB	11:a9:516:GLN:HG3	2.35	0.53
11:a9:93:LEU:N	11:a9:93:LEU:CD1	2.72	0.53
11:a9:425:VAL:CG2	11:a9:502:ASN:HA	2.38	0.53
11:aA:50:LEU:HD22	11:aA:600:THR:HG21	1.91	0.53
11:aA:59:ARG:HA	11:aA:62:MET:HG2	1.90	0.53
11:aA:537:ASP:HB3	11:aA:543:GLN:CB	2.38	0.53
11:aA:581:ARG:CZ	11:aA:581:ARG:HB3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:741:TYR:OH	2:K1:13:ASP:CG	2.50	0.53
11:aA:823:ILE:CD1	3:L1:75:PRO:HG2	2.36	0.53
4:MA:110:TYR:CE2	4:MA:124:ARG:NH1	2.77	0.53
5:NA:41:GLN:HG2	5:NA:44:TYR:CE1	2.43	0.53
5:NA:74:GLU:HA	3:RA:111:ASN:HD21	1.74	0.53
2:QA:120:PHE:HZ	3:TA:60:PHE:HE2	1.56	0.53
3:J3:77:ARG:CD	2:K3:107:ASP:O	2.57	0.53
12:J2:201:CYC:HC	12:J2:201:CYC:HMD2	1.70	0.53
2:K2:23:GLU:OE2	2:A2:2:LYS:NZ	2.41	0.53
3:B4:112:GLY:H	4:M4:60:LYS:HB2	1.74	0.53
12:B4:202:CYC:C2D	4:M4:53:LEU:HD23	2.39	0.53
4:M4:176:ARG:HH11	4:M4:176:ARG:HG2	1.74	0.53
8:E5:125:ALA:O	8:E5:128:GLU:HB3	2.09	0.53
8:E5:127:ALA:O	8:E5:157:VAL:HG22	2.08	0.53
8:G5:26:ILE:O	8:G5:30:VAL:HG13	2.09	0.53
8:e5:29:PHE:CD1	8:e5:99:GLY:HA3	2.43	0.53
8:e5:95:GLY:H	8:e5:104:ILE:HD11	1.74	0.53
12:b5:201:CYC:HB	12:b5:201:CYC:HMA3	1.73	0.53
9:i5:6:LYS:HB2	9:i5:55:LYS:HB3	1.84	0.53
10:j5:43:LEU:CD2	10:j5:43:LEU:N	2.72	0.53
10:j5:187:ARG:HB3	10:j5:237:ASP:OD1	2.08	0.53
10:j5:540:LEU:HD11	10:j5:544:VAL:CG2	2.39	0.53
10:j5:676:GLU:O	10:j5:676:GLU:HG3	2.02	0.53
10:k5:284:PRO:HG3	10:k5:326:GLY:HA2	1.68	0.53
10:k5:431:GLN:NE2	10:k5:431:GLN:CA	2.72	0.53
10:k5:1024:LYS:HD2	10:k5:1038:ARG:HH12	1.73	0.53
10:k5:1043:GLU:HB2	8:Y7:14:GLU:OE2	2.09	0.53
8:Q7:25:ARG:HD3	8:C7:25:ARG:NH2	2.08	0.53
1:H7:53:LYS:HD3	8:I7:118:SER:O	2.09	0.53
1:j7:3:ASP:H	1:j7:6:THR:HG1	1.57	0.53
8:u7:90:ARG:HA	1:v7:18:TYR:HE2	1.63	0.53
8:u7:121:THR:HG22	12:u7:201:CYC:HMC3	1.81	0.53
4:M8:91:VAL:HA	2:P8:15:GLN:CA	2.35	0.53
4:M8:220:TYR:CD1	4:M8:220:TYR:C	2.85	0.53
4:M9:259:ARG:HH12	3:V9:116:THR:N	2.07	0.53
11:a9:55:ASP:CB	11:a9:612:TYR:CG	2.91	0.53
11:a9:426:ARG:NE	11:a9:496:ARG:HD3	2.22	0.53
11:a9:595:ARG:CG	11:a9:596:THR:O	2.55	0.53
12:J1:201:CYC:HC	12:J1:201:CYC:HMD2	1.70	0.53
4:M1:110:TYR:CE2	4:M1:124:ARG:NH1	2.77	0.53
4:M1:250:THR:OG1	12:X1:201:CYC:HAA1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:185:ALA:HB1	12:VA:201:CYC:O1A	2.08	0.52
5:NA:37:HIS:O	5:NA:37:HIS:HD2	1.92	0.52
2:O1:38:MET:CE	3:P1:28:THR:OG1	2.56	0.52
2:G3:107:ASP:O	3:L3:77:ARG:CD	2.57	0.52
6:M2:278:ARG:HH21	1:j7:67:ARG:NH1	2.00	0.52
12:Z3:201:CYC:HBA2	4:M3:185:ALA:HA	1.90	0.52
3:B4:86:MET:CB	12:B4:202:CYC:HBC1	2.38	0.52
4:M4:100:SER:O	2:P4:13:ASP:HB2	2.09	0.52
4:M4:232:VAL:CB	12:M4:301:CYC:CBB	2.73	0.52
8:K5:77:MET:O	12:K5:201:CYC:HMD3	2.08	0.52
5:Z4:44:TYR:CZ	5:Z4:46:THR:OG1	2.56	0.52
8:A5:110:ILE:CG1	1:F5:76:ARG:HD3	2.38	0.52
1:B5:2:GLN:HE22	10:k5:551:MET:HG2	1.74	0.52
1:F5:14:VAL:HG12	9:z5:64:ASN:ND2	2.24	0.52
8:G5:88:TYR:CE2	12:G5:201:CYC:CMB	2.92	0.52
8:e5:35:ARG:NH2	8:e5:145:ASP:OD1	2.42	0.52
8:U5:87:TYR:CZ	6:M6:26:PHE:CD2	2.79	0.52
1:X5:86:ASP:CG	1:X5:90:ARG:NE	2.67	0.52
3:J6:108:ARG:CZ	6:M6:155:ASN:O	2.55	0.52
7:N6:1:MET:N	7:N6:1:MET:CE	2.72	0.52
8:A7:109:ILE:HD13	8:A7:159:ALA:HB1	1.91	0.52
9:i5:5:PHE:CA	9:i5:55:LYS:O	2.57	0.52
9:i5:24:GLN:O	9:i5:25:ASN:C	2.31	0.52
10:j5:431:GLN:NE2	10:j5:431:GLN:CA	2.72	0.52
10:j5:748:ARG:HE	8:K7:106:GLU:CD	2.08	0.52
10:j5:946:ASP:OD1	10:j5:946:ASP:N	2.38	0.52
10:j5:995:VAL:CG2	8:u7:14:GLU:OE2	2.56	0.52
10:j5:1125:ARG:NH1	1:t7:114:GLU:HB3	2.22	0.52
10:k5:53:ARG:O	10:k5:56:ILE:CG2	2.43	0.52
10:k5:221:LYS:HA	10:k5:221:LYS:CE	2.37	0.52
10:k5:489:ASN:ND2	10:k5:492:ILE:HG12	2.24	0.52
10:k5:938:GLN:HE22	1:D7:28:LYS:HB3	1.74	0.52
8:O7:118:SER:O	1:N7:53:LYS:HD3	2.09	0.52
8:E7:4:LEU:HD23	8:E7:26:ILE:CD1	2.38	0.52
8:E7:109:ILE:HD13	8:E7:159:ALA:HB1	1.91	0.52
1:Z7:110:ASN:ND2	9:x7:57:PHE:O	2.42	0.52
8:a7:52:LYS:HE3	11:a9:321:ALA:HA	1.91	0.52
8:a7:63:PRO:HB2	11:a9:333:GLN:O	2.09	0.52
8:c7:126:VAL:HG22	12:c7:201:CYC:CMC	2.39	0.52
8:m7:95:GLY:H	8:m7:104:ILE:HD11	1.74	0.52
8:s7:95:GLY:H	8:s7:104:ILE:HD11	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M8:51:ARG:HB3	4:M8:51:ARG:NH1	2.23	0.52
4:M8:198:ALA:HB2	5:Z8:55:PRO:CG	2.37	0.52
3:O8:107:ASP:OD1	5:Z8:66:ARG:CB	2.52	0.52
5:Z8:29:HIS:HE1	5:Z8:31:TRP:CB	2.09	0.52
2:G1:107:ASP:O	3:L1:77:ARG:CD	2.57	0.52
11:a9:95:ILE:HD13	11:a9:237:PHE:CE1	2.34	0.52
11:aA:75:ALA:CB	11:aA:81:ASP:N	2.72	0.52
11:aA:800:THR:CB	3:J1:120:LEU:HD21	2.38	0.52
3:FA:68:ARG:HH22	3:ZA:68:ARG:CZ	2.22	0.52
4:MA:1:MET:O	4:MA:2:ASN:O	2.26	0.52
4:MA:245:ASP:HB3	3:ZA:108:ARG:O	2.09	0.52
2:S1:16:GLY:HA3	5:N1:31:TRP:CG	2.44	0.52
3:H3:69:PRO:O	11:a9:616:PRO:HA	2.08	0.52
2:K2:33:ARG:CG	2:A2:25:GLN:HG2	2.39	0.52
4:M3:245:ASP:HB2	3:X3:108:ARG:HA	1.91	0.52
5:N3:22:LEU:HD21	5:N3:26:LEU:CD1	2.14	0.52
4:M4:28:HIS:HE1	4:M4:37:GLU:OE1	1.91	0.52
3:Q4:4:ALA:CA	3:Q4:99:ALA:O	2.57	0.52
8:K5:26:ILE:O	8:K5:30:VAL:HG13	2.09	0.52
12:M5:201:CYC:HB	12:M5:201:CYC:CMA	2.21	0.52
12:N5:201:CYC:O2A	10:k5:483:PHE:CE1	2.57	0.52
3:Y4:89:ILE:HG12	3:Y4:92:TYR:CZ	2.43	0.52
8:G5:161:GLN:CG	1:T5:49:THR:CG2	2.87	0.52
12:R5:201:CYC:CBB	10:k5:520:ARG:CG	2.88	0.52
8:W5:17:TYR:CD2	1:X5:93:THR:OG1	2.46	0.52
8:Y5:26:ILE:O	8:Y5:30:VAL:HG13	2.09	0.52
10:j5:612:ILE:HD12	10:j5:612:ILE:N	2.06	0.52
10:j5:1139:SER:O	11:aA:32:ARG:NH1	2.28	0.52
10:k5:187:ARG:NE	10:k5:237:ASP:OD2	2.37	0.52
10:k5:221:LYS:NZ	10:k5:221:LYS:CB	2.72	0.52
10:k5:902:ASN:HD22	10:k5:902:ASN:C	2.03	0.52
10:k5:1026:LYS:C	10:k5:1028:ASN:N	2.66	0.52
2:A6:65:TYR:O	2:A6:71:GLN:CG	2.54	0.52
12:P7:201:CYC:OB	9:z7:21:ARG:O	2.27	0.52
8:Q7:26:ILE:O	8:Q7:30:VAL:HG13	2.09	0.52
8:Q7:116:TYR:HB3	8:Q7:123:ILE:HG12	1.92	0.52
8:S7:9:VAL:HG21	9:w7:69:ALA:HB1	1.90	0.52
8:C7:29:PHE:CD1	8:C7:99:GLY:HA3	2.43	0.52
8:I7:95:GLY:H	8:I7:104:ILE:HD11	1.74	0.52
8:K7:116:TYR:HB3	8:K7:123:ILE:HG12	1.91	0.52
8:i7:26:ILE:O	8:i7:30:VAL:HG13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:d7:201:CYC:HB	12:d7:201:CYC:HMA3	1.73	0.52
8:o7:37:LEU:CD1	1:p7:24:LEU:HB3	2.38	0.52
8:o7:94:TYR:HE1	1:p7:18:TYR:HA	1.74	0.52
8:q7:26:ILE:O	8:q7:30:VAL:HG13	2.09	0.52
8:q7:90:ARG:HB2	1:r7:18:TYR:CZ	2.44	0.52
8:u7:44:THR:HG22	8:u7:44:THR:O	2.08	0.52
9:z7:3:ARG:NE	9:z7:67:VAL:HG13	2.24	0.52
9:y7:3:ARG:CD	9:y7:67:VAL:HG13	2.38	0.52
5:Z8:37:HIS:HD2	5:Z8:37:HIS:O	1.92	0.52
11:a9:615:ARG:CB	11:a9:615:ARG:NH1	2.72	0.52
11:a9:776:TYR:HA	11:a9:780:GLN:HE22	1.75	0.52
11:aA:25:GLU:O	11:aA:27:PHE:N	2.42	0.52
11:aA:331:TYR:HA	11:aA:333:GLN:HE21	1.66	0.52
11:aA:598:SER:HB3	11:aA:599:PRO:HB3	1.90	0.52
1:Z:16:GLY:CA	8:e5:90:ARG:NH1	2.68	0.52
3:DA:108:ARG:O	4:MA:6:THR:HG21	1.96	0.52
2:IA:37:SER:HA	2:IA:97:LEU:CD2	2.27	0.52
3:LA:44:ILE:HG22	3:LA:90:LEU:HD21	1.88	0.52
4:MA:144:ARG:NH2	4:MA:205:ASP:OD1	2.43	0.52
4:MA:152:TYR:CD1	4:MA:152:TYR:C	2.87	0.52
2:OA:60:TYR:CB	2:OA:67:THR:CG2	2.83	0.52
2:QA:116:VAL:HG23	3:TA:80:ALA:CA	2.39	0.52
2:A1:60:TYR:CB	2:A1:67:THR:CG2	2.83	0.52
6:M2:50:LEU:HD21	8:i7:79:ALA:HA	1.91	0.52
4:M3:112:GLN:HG2	4:M3:219:PRO:O	2.10	0.52
4:M3:144:ARG:NH2	4:M3:205:ASP:OD1	2.43	0.52
4:M3:232:VAL:HG21	3:V3:113:LEU:HA	1.91	0.52
4:M4:29:PRO:CG	11:aA:226:PHE:O	2.55	0.52
4:M4:82:ILE:HD12	12:M4:301:CYC:O1D	2.03	0.52
4:M4:112:GLN:HG2	4:M4:219:PRO:O	2.09	0.52
4:M4:227:GLN:C	3:Y4:91:ARG:HH21	2.14	0.52
3:O4:88:ILE:HD11	5:Z4:54:LEU:CD1	2.38	0.52
3:Q4:85:ASP:CB	12:Z4:301:CYC:CBC	2.84	0.52
8:A5:88:TYR:CE2	12:A5:201:CYC:CMB	2.92	0.52
8:I5:95:GLY:H	8:I5:104:ILE:HD11	1.74	0.52
12:I5:201:CYC:HB	12:I5:201:CYC:CMA	2.21	0.52
12:e5:201:CYC:HB	12:e5:201:CYC:CMA	2.21	0.52
1:f5:113:LYS:HE2	1:V5:105:ASP:OD2	2.09	0.52
1:R5:64:ASP:HB3	10:k5:704:THR:CG2	2.39	0.52
1:b5:118:SER:OG	10:k5:491:THR:O	2.26	0.52
9:z5:42:GLN:HA	9:z5:45:GLN:HG2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:i5:16:ARG:NE	9:i5:16:ARG:HA	2.23	0.52
10:j5:362:LYS:CE	10:j5:363:HIS:HD2	2.08	0.52
10:k5:43:LEU:N	10:k5:43:LEU:CD2	2.72	0.52
10:k5:802:VAL:O	10:k5:802:VAL:HG12	2.10	0.52
12:P7:201:CYC:HB	12:P7:201:CYC:HMA3	1.73	0.52
12:P7:201:CYC:HBB2	9:z7:21:ARG:CG	2.39	0.52
8:Q7:109:ILE:HD13	8:Q7:159:ALA:HB1	1.91	0.52
8:S7:26:ILE:O	8:S7:30:VAL:HG13	2.09	0.52
8:C7:15:ALA:CB	1:D7:90:ARG:NH2	2.68	0.52
8:E7:126:VAL:HG22	12:E7:201:CYC:H3C	1.91	0.52
8:i7:3:VAL:CG2	8:s7:25:ARG:NH2	2.73	0.52
8:i7:4:LEU:HD23	8:i7:26:ILE:CD1	2.38	0.52
8:i7:49:ARG:NH2	8:i7:140:LEU:HD21	2.24	0.52
8:i7:126:VAL:HG22	12:i7:201:CYC:CMC	2.39	0.52
2:A8:2:LYS:HE2	2:K8:22:THR:CG2	2.38	0.52
8:m7:109:ILE:HD13	8:m7:159:ALA:HB1	1.91	0.52
9:z7:7:VAL:O	9:z7:7:VAL:HG23	2.08	0.52
9:z7:34:TYR:C	9:z7:34:TYR:CD1	2.87	0.52
9:w7:27:PHE:C	9:w7:27:PHE:CD1	2.86	0.52
3:F8:109:CYS:HA	4:M8:6:THR:CG2	2.36	0.52
4:M8:58:TYR:OH	11:a9:223:ARG:NH1	2.42	0.52
4:M8:91:VAL:HG21	2:P8:14:SER:O	1.93	0.52
4:M9:14:LEU:HD12	4:M9:14:LEU:N	2.24	0.52
5:N9:16:PHE:HE1	3:T9:120:LEU:HD23	1.64	0.52
2:I9:16:GLY:HA3	11:a9:514:VAL:CG1	2.36	0.52
11:a9:75:ALA:HB1	11:a9:81:ASP:N	2.23	0.52
11:a9:801:ASN:HD22	11:a9:801:ASN:C	2.10	0.52
11:aA:328:GLN:NE2	11:aA:328:GLN:N	2.58	0.52
11:aA:419:ARG:CG	11:aA:419:ARG:NH1	2.71	0.52
11:aA:745:GLY:HA2	2:K1:16:GLY:N	2.24	0.52
11:aA:776:TYR:CA	12:H1:201:CYC:HBA1	2.35	0.52
1:A:158:SER:OG	1:R5:11:ASN:ND2	2.38	0.52
2:IA:13:ASP:OD1	3:JA:92:TYR:OH	2.20	0.52
4:MA:153:LYS:NZ	2:UA:14:SER:CB	2.72	0.52
2:G2:16:GLY:HA3	6:M2:104:ARG:NE	2.23	0.52
4:M3:176:ARG:HH11	4:M3:176:ARG:HG2	1.74	0.52
5:N3:53:LEU:HB3	12:R3:201:CYC:CBA	2.39	0.52
3:B1:125:ARG:HD2	3:X1:14:LEU:CD1	2.39	0.52
3:S4:72:ASN:HB3	12:S4:202:CYC:OC	2.09	0.52
12:H4:201:CYC:HBB2	11:aA:259:ALA:CA	2.38	0.52
8:K5:161:GLN:CD	1:V5:49:THR:HG22	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O5:109:ILE:HD13	8:O5:159:ALA:HB1	1.91	0.52
3:Y4:127:VAL:HG11	3:Y4:171:ILE:HG21	1.91	0.52
12:R5:201:CYC:CBB	10:k5:520:ARG:CD	2.87	0.52
10:j5:935:LEU:CD1	1:J7:25:ASP:O	2.57	0.52
10:j5:1124:TYR:CE2	1:t7:119:LEU:CD2	2.87	0.52
12:j5:1202:CYC:HMD1	12:j5:1202:CYC:NC	2.09	0.52
1:T7:53:LYS:HD3	8:U7:118:SER:O	2.09	0.52
8:U7:95:GLY:H	8:U7:104:ILE:HD11	1.73	0.52
8:c7:4:LEU:HD23	8:c7:26:ILE:CD1	2.38	0.52
8:c7:46:ALA:HB1	8:c7:140:LEU:HD11	1.90	0.52
12:D8:202:CYC:CAA	4:M8:35:THR:OG1	2.52	0.52
12:D8:202:CYC:HMA2	4:M8:35:THR:OG1	2.10	0.52
8:o7:80:LEU:HD12	12:o7:201:CYC:HAD2	1.90	0.52
1:r7:53:LYS:HD3	8:s7:118:SER:O	2.09	0.52
8:u7:37:LEU:CD1	1:v7:24:LEU:HB3	2.38	0.52
2:G8:15:GLN:HB3	11:a9:120:ARG:HH11	1.75	0.52
4:M8:17:VAL:CG1	4:M8:18:THR:N	2.71	0.52
4:M8:112:GLN:HG2	4:M8:219:PRO:O	2.10	0.52
4:M8:225:LYS:H	12:M8:301:CYC:CGA	2.15	0.52
3:L9:98:LEU:O	3:L9:99:ALA:C	2.48	0.52
4:M9:188:LEU:HD12	4:M9:188:LEU:C	2.35	0.52
5:N9:37:HIS:O	5:N9:38:GLU:C	2.49	0.52
5:Z8:22:LEU:O	12:Z8:301:CYC:HMA3	2.09	0.52
3:H9:126:SER:HB2	12:H9:202:CYC:HMC3	1.78	0.52
3:J9:70:GLY:C	11:a9:357:THR:H	2.17	0.52
11:a9:581:ARG:C	11:a9:581:ARG:HD2	2.35	0.52
11:a9:802:ARG:HH11	11:a9:802:ARG:CG	2.22	0.52
11:aA:365:LYS:HZ2	11:aA:365:LYS:CB	2.17	0.52
11:aA:426:ARG:NH2	11:aA:496:ARG:CD	2.58	0.52
4:M1:61:ASN:C	4:M1:63:GLY:N	2.64	0.52
3:F2:78:ARG:HG2	12:F2:201:CYC:HAD1	1.91	0.52
12:Z:201:CYC:HB	12:Z:201:CYC:HMA3	1.73	0.52
3:HA:125:ARG:NE	8:S7:41:GLN:NE2	2.53	0.52
2:QA:69:PRO:HD3	2:U1:46:SER:HA	1.90	0.52
3:L2:65:ASP:OD1	1:h7:64:ASP:CG	2.51	0.52
6:M2:34:ARG:HD2	8:O5:52:LYS:HD2	1.89	0.52
4:M3:14:LEU:HD12	4:M3:14:LEU:N	2.25	0.52
3:H4:14:LEU:HD21	11:aA:86:ASP:N	2.25	0.52
4:M4:128:ALA:CA	4:M4:142:PHE:CZ	2.93	0.52
2:N4:115:GLU:HB2	5:Z4:32:PRO:HG2	1.91	0.52
12:K5:201:CYC:HB	12:K5:201:CYC:CMA	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C5:84:ASP:OD2	12:C5:201:CYC:NA	2.43	0.52
8:G5:88:TYR:CE2	12:G5:201:CYC:HMB3	2.44	0.52
1:J5:5:ILE:HG22	1:J5:5:ILE:O	2.08	0.52
8:c5:26:ILE:O	8:c5:30:VAL:HG13	2.09	0.52
8:e5:27:LYS:O	8:e5:30:VAL:HG22	2.09	0.52
1:f5:38:VAL:CG1	10:j5:40:VAL:HG12	2.27	0.52
6:M6:43:TRP:CZ2	8:c7:56:ASP:OD2	2.63	0.52
9:i5:18:ARG:HB3	9:i5:22:GLU:CD	2.30	0.52
10:j5:238:ARG:CG	10:j5:238:ARG:NH1	2.72	0.52
10:j5:826:THR:HG21	12:H7:201:CYC:CMA	2.38	0.52
10:j5:965:GLN:CD	1:t7:69:GLY:O	2.51	0.52
10:k5:246:VAL:CG2	10:k5:257:THR:CG2	2.83	0.52
10:k5:886:PHE:N	10:k5:886:PHE:CD1	2.77	0.52
10:k5:974:LEU:CD1	1:p7:106:GLU:CD	2.80	0.52
10:k5:1008:PHE:CZ	12:p7:201:CYC:C4B	2.92	0.52
10:k5:1119:LEU:CD1	12:k5:1204:CYC:CBB	2.87	0.52
8:Q7:126:VAL:HG22	12:Q7:201:CYC:H3C	1.91	0.52
12:R7:201:CYC:HB	12:R7:201:CYC:HMA3	1.73	0.52
8:S7:90:ARG:HB2	1:T7:18:TYR:CZ	2.45	0.52
8:S7:109:ILE:HD13	8:S7:159:ALA:HB1	1.91	0.52
1:B7:53:LYS:HD3	8:C7:118:SER:O	2.09	0.52
8:C7:35:ARG:NH2	8:C7:145:ASP:OD1	2.41	0.52
8:g7:95:GLY:H	8:g7:104:ILE:HD11	1.74	0.52
8:i7:131:ARG:CB	8:i7:131:ARG:NH1	2.73	0.52
8:W7:116:TYR:HB3	8:W7:123:ILE:HG12	1.91	0.52
1:n7:75:THR:OG1	8:o7:110:ILE:O	2.27	0.52
8:o7:37:LEU:HD21	1:p7:24:LEU:CD2	2.21	0.52
8:q7:109:ILE:HD13	8:q7:159:ALA:HB1	1.91	0.52
8:u7:2:SER:HB3	1:v7:5:ILE:HG22	1.87	0.52
8:u7:90:ARG:CA	1:v7:18:TYR:CZ	2.93	0.52
4:M8:61:ASN:C	4:M8:63:GLY:N	2.64	0.52
4:M8:176:ARG:HH11	4:M8:176:ARG:HG2	1.74	0.52
2:N8:115:GLU:CA	5:Z8:32:PRO:CB	2.76	0.52
3:L9:14:LEU:HD21	11:a9:358:PRO:CD	2.40	0.52
4:M9:36:TYR:CZ	12:B9:201:CYC:HAA1	2.45	0.52
5:Z8:37:HIS:HD2	12:Z8:301:CYC:CHB	2.15	0.52
2:A9:31:PHE:CG	3:B9:34:SER:HB2	2.45	0.52
12:H9:202:CYC:OB	11:a9:448:ASN:OD1	2.27	0.52
11:aA:578:MET:HE3	11:aA:582:MET:CE	2.34	0.52
11:aA:615:ARG:HB3	11:aA:615:ARG:NH1	2.20	0.52
5:N1:67:ILE:N	5:N1:67:ILE:HD13	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:18:TYR:OH	8:e5:90:ARG:N	2.43	0.52
2:AA:114:ARG:NH1	11:aA:407:GLU:OE2	2.43	0.52
3:J3:81:ALA:O	11:a9:668:TYR:CE2	2.63	0.52
2:E4:14:SER:C	11:aA:163:ASP:OD2	2.53	0.52
8:M5:109:ILE:HD13	8:M5:159:ALA:HB1	1.91	0.52
1:D5:76:ARG:HG3	1:D5:77:ARG:N	2.25	0.52
1:H5:76:ARG:CD	9:i5:14:LEU:HB2	2.40	0.52
8:S5:90:ARG:HD2	1:T5:18:TYR:N	2.24	0.52
8:W5:126:VAL:HG22	12:W5:201:CYC:H3C	1.91	0.52
8:Y5:90:ARG:HB2	1:Z5:18:TYR:CZ	2.45	0.52
10:j5:357:LEU:CD1	10:j5:379:PHE:CA	2.84	0.52
10:j5:886:PHE:CD1	10:j5:886:PHE:N	2.77	0.52
10:k5:931:VAL:CA	1:D7:29:ALA:O	2.51	0.52
10:k5:1151:GLN:O	1:p7:122:PRO:HB3	2.07	0.52
8:Q7:4:LEU:HD23	8:Q7:26:ILE:CD1	2.38	0.52
8:G7:90:ARG:HB2	1:H7:18:TYR:CZ	2.45	0.52
8:i7:3:VAL:HG13	8:s7:25:ARG:HH21	1.22	0.52
8:i7:46:ALA:HB2	8:i7:140:LEU:CD1	2.39	0.52
8:k7:109:ILE:HD13	8:k7:159:ALA:HB1	1.91	0.52
8:U7:27:LYS:O	8:U7:30:VAL:HG22	2.09	0.52
8:u7:36:ARG:NH2	8:u7:36:ARG:CG	2.71	0.52
2:N8:14:SER:OG	5:Z8:62:ARG:CZ	2.57	0.52
2:N8:60:TYR:CB	2:N8:67:THR:CG2	2.83	0.52
3:L9:107:ASP:O	11:a9:531:ASP:CG	2.52	0.52
2:O9:25:GLN:HG2	2:Y9:33:ARG:CG	2.38	0.52
2:O9:34:ALA:HB1	3:P9:31:VAL:HG21	1.92	0.52
11:a9:581:ARG:HB3	11:a9:581:ARG:CZ	2.38	0.52
11:a9:629:LYS:HD3	11:a9:629:LYS:C	2.35	0.52
3:F2:72:ASN:O	12:F2:201:CYC:CMD	2.57	0.52
1:Z:18:TYR:CD1	8:e5:90:ARG:HD3	2.45	0.52
2:AA:114:ARG:NH1	11:aA:407:GLU:OE1	2.25	0.52
2:IA:19:LEU:CD1	3:JA:41:VAL:HG11	2.40	0.52
12:LA:202:CYC:O1D	11:aA:538:ARG:NE	2.38	0.52
4:MA:188:LEU:HD12	4:MA:188:LEU:C	2.35	0.52
4:MA:273:ILE:CG2	2:WA:107:ASP:O	2.57	0.52
5:NA:37:HIS:O	5:NA:38:GLU:C	2.49	0.52
2:OA:34:ALA:HB1	3:PA:31:VAL:HG21	1.92	0.52
2:A1:31:PHE:CG	3:B1:34:SER:HB2	2.45	0.52
2:A1:65:TYR:O	2:A1:71:GLN:CG	2.54	0.52
3:H3:62:GLU:CD	8:k7:49:ARG:NH2	2.68	0.52
2:A4:31:PHE:CG	3:B4:34:SER:HB2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B4:86:MET:HG3	12:B4:202:CYC:HBC1	1.90	0.52
3:B4:120:LEU:HD12	4:M4:53:LEU:CB	2.13	0.52
4:M3:188:LEU:HD12	4:M3:188:LEU:C	2.35	0.52
2:O3:34:ALA:HB1	3:P3:31:VAL:HG21	1.92	0.52
4:M4:139:VAL:O	4:M4:139:VAL:HG12	2.09	0.52
3:Q4:72:ASN:HD21	12:Z4:301:CYC:CBD	2.03	0.52
8:M5:26:ILE:O	8:M5:30:VAL:HG13	2.09	0.52
1:J5:76:ARG:HH12	9:i5:67:VAL:HB	1.74	0.52
8:c5:109:ILE:HD13	8:c5:159:ALA:HB1	1.91	0.52
8:U5:29:PHE:HE1	8:U5:99:GLY:N	2.08	0.52
8:a5:109:ILE:HD13	8:a5:159:ALA:HB1	1.91	0.52
1:b5:9:ILE:CG2	10:k5:17:PHE:HZ	2.21	0.52
8:A7:26:ILE:O	8:A7:30:VAL:HG13	2.10	0.52
8:A7:51:VAL:HG11	11:aA:579:PHE:CE1	2.41	0.52
10:k5:362:LYS:HD2	10:k5:363:HIS:CD2	2.34	0.52
10:k5:964:GLY:C	1:n7:69:GLY:CA	2.81	0.52
10:k5:1046:ARG:CZ	8:k7:9:VAL:CG1	2.88	0.52
10:k5:1119:LEU:CD2	1:n7:87:TYR:CZ	2.93	0.52
2:A6:34:ALA:HB1	3:B6:31:VAL:HG21	1.92	0.52
3:F6:78:ARG:HG2	12:F6:201:CYC:O1D	2.09	0.52
12:i7:201:CYC:HB	12:i7:201:CYC:CMA	2.21	0.52
8:U7:15:ALA:HB1	1:V7:90:ARG:HH22	1.70	0.52
8:c7:131:ARG:CB	8:c7:131:ARG:NH1	2.73	0.52
8:u7:30:VAL:CG1	1:v7:31:PHE:HD1	2.21	0.52
3:F8:104:VAL:O	3:F8:107:ASP:OD1	2.28	0.52
4:M8:14:LEU:N	4:M8:14:LEU:HD12	2.25	0.52
4:M8:112:GLN:NE2	4:M8:172:HIS:O	2.43	0.52
12:M8:302:CYC:CAC	3:S8:81:ALA:HB3	2.40	0.52
4:M9:153:LYS:NZ	2:U9:14:SER:CB	2.72	0.52
4:M9:274:VAL:H	3:V9:77:ARG:CG	2.19	0.52
2:A9:114:ARG:NH1	11:a9:407:GLU:OE2	2.43	0.52
11:a9:418:LEU:HD22	11:a9:428:PHE:CD2	2.45	0.52
11:a9:632:ILE:H	11:a9:632:ILE:CD1	2.22	0.52
11:a9:812:ASP:O	11:a9:816:LEU:N	2.39	0.52
4:M1:112:GLN:HG2	4:M1:219:PRO:O	2.10	0.52
5:N1:22:LEU:O	5:N1:37:HIS:HE1	1.92	0.52
2:AA:31:PHE:CG	3:BA:34:SER:HB2	2.45	0.52
2:A3:31:PHE:CG	3:B3:34:SER:HB2	2.45	0.52
5:N3:3:VAL:CG1	3:P3:115:GLU:HB2	2.36	0.52
2:O3:31:PHE:CG	3:P3:34:SER:HB2	2.45	0.52
3:L4:88:ILE:HD13	11:aA:239:TYR:CZ	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:235:PHE:CZ	3:Y4:113:LEU:HA	2.43	0.52
3:Q4:84:ARG:O	3:Q4:88:ILE:HG13	2.10	0.52
1:L5:68:PRO:CA	1:H5:14:VAL:O	2.58	0.52
1:L5:76:ARG:HD3	8:G5:110:ILE:CG1	2.37	0.52
1:B5:10:ASN:ND2	10:k5:557:VAL:CB	2.68	0.52
1:B5:14:VAL:CG1	10:k5:555:ALA:CA	2.85	0.52
1:B5:14:VAL:O	1:F5:68:PRO:CA	2.58	0.52
1:J5:76:ARG:HG3	1:J5:77:ARG:N	2.25	0.52
8:c5:9:VAL:CG1	10:j5:344:ARG:NE	2.73	0.52
8:Q5:116:TYR:HB3	8:Q5:123:ILE:HG12	1.91	0.52
1:R5:3:ASP:H	1:R5:6:THR:HG1	1.56	0.52
8:U5:95:GLY:H	8:U5:104:ILE:HD11	1.74	0.52
8:a5:35:ARG:NH2	8:a5:145:ASP:OD1	2.42	0.52
1:b5:18:TYR:CD1	10:k5:165:ARG:HG3	2.43	0.52
10:j5:1153:VAL:CG2	1:v7:65:LEU:HD11	2.27	0.52
10:k5:357:LEU:CD1	10:k5:379:PHE:CA	2.84	0.52
10:k5:965:GLN:H	1:n7:69:GLY:C	2.14	0.52
10:k5:978:LEU:HD22	1:p7:107:ARG:NH2	1.92	0.52
8:O7:27:LYS:O	8:O7:30:VAL:HG22	2.09	0.52
8:O7:109:ILE:HD13	8:O7:159:ALA:HB1	1.91	0.52
8:I7:29:PHE:HE1	8:I7:99:GLY:N	2.08	0.52
8:g7:27:LYS:O	8:g7:30:VAL:HG22	2.09	0.52
8:g7:52:LYS:HE3	11:aA:321:ALA:HA	1.92	0.52
1:h7:75:THR:HB	8:i7:112:VAL:CA	2.40	0.52
8:a7:56:ASP:OD1	11:a9:325:LEU:CB	2.58	0.52
8:c7:95:GLY:C	8:c7:152:TYR:CD2	2.87	0.52
3:B8:107:ASP:C	4:M8:61:ASN:HA	2.31	0.52
9:w7:3:ARG:NE	9:w7:67:VAL:HG13	2.24	0.52
3:F8:107:ASP:CG	4:M8:8:SER:C	2.65	0.52
2:N8:34:ALA:HB1	3:O8:31:VAL:HG21	1.92	0.52
5:N9:53:LEU:CB	12:T9:301:CYC:CBA	2.53	0.52
5:N9:57:MET:HE2	5:N9:67:ILE:HG13	1.92	0.52
11:aA:776:TYR:HB3	12:H1:201:CYC:O2A	2.10	0.52
5:N1:24:PRO:HD3	12:T1:301:CYC:HBA2	1.90	0.52
2:AA:34:ALA:HB1	3:BA:31:VAL:HG21	1.92	0.52
3:FA:150:ARG:HD2	3:F9:150:ARG:CG	2.39	0.52
4:MA:112:GLN:HG2	4:MA:219:PRO:O	2.10	0.52
2:O1:25:GLN:HG2	2:Y1:33:ARG:CG	2.38	0.52
3:P1:84:ARG:CZ	4:M1:130:SER:HB3	2.40	0.52
2:G3:107:ASP:CG	3:L3:77:ARG:NH2	2.67	0.52
6:M2:259:THR:O	6:M2:262:ASP:N	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:140:SER:HB3	3:D8:150:ARG:HH11	1.75	0.52
12:F3:201:CYC:CBA	4:M3:36:TYR:CE2	2.92	0.52
3:B4:108:ARG:O	4:M4:61:ASN:CA	2.58	0.52
3:B4:117:TYR:HE1	4:M4:53:LEU:HD21	1.75	0.52
3:B4:119:ALA:HB3	4:M4:52:LEU:CD1	2.37	0.52
4:M3:250:THR:OG1	12:X3:201:CYC:HAA1	2.09	0.52
5:N3:37:HIS:O	5:N3:37:HIS:HD2	1.92	0.52
5:N3:57:MET:HE2	5:N3:67:ILE:HG13	1.92	0.52
4:M4:14:LEU:HD12	4:M4:14:LEU:N	2.25	0.52
4:M4:27:HIS:CE1	4:M4:35:THR:HG22	2.45	0.52
4:M4:29:PRO:CD	11:aA:230:THR:OG1	2.58	0.52
4:M4:273:ILE:HG21	2:X4:108:TYR:CE1	2.44	0.52
8:Q5:126:VAL:HG22	12:Q5:201:CYC:H3C	1.91	0.52
9:z5:5:PHE:CA	9:z5:55:LYS:O	2.57	0.52
10:j5:388:ARG:HD2	10:j5:393:MET:N	2.13	0.52
10:k5:501:ILE:H	10:k5:501:ILE:CD1	2.17	0.52
8:K7:26:ILE:O	8:K7:30:VAL:HG13	2.09	0.52
8:K7:109:ILE:HD13	8:K7:159:ALA:HB1	1.91	0.52
1:N7:106:GLU:CG	9:z7:58:THR:CG2	2.87	0.52
8:g7:11:ALA:O	8:g7:12:ASP:C	2.50	0.52
8:U7:35:ARG:NH2	8:U7:145:ASP:OD1	2.42	0.52
8:Y7:106:GLU:OE2	9:x7:68:GLY:C	2.53	0.52
1:b7:76:ARG:CA	8:c7:110:ILE:O	2.58	0.52
8:c7:46:ALA:HB2	8:c7:140:LEU:CD1	2.39	0.52
1:d7:77:ARG:CZ	9:x7:63:ALA:CB	2.73	0.52
1:l7:53:LYS:HD3	8:m7:118:SER:O	2.09	0.52
8:m7:35:ARG:NH2	8:m7:145:ASP:OD1	2.41	0.52
4:M8:96:LYS:NZ	3:Q8:113:LEU:HD22	2.24	0.52
3:O8:95:TYR:HE2	3:O8:108:ARG:NH2	2.01	0.52
3:Q8:113:LEU:C	3:Q8:115:GLU:N	2.68	0.52
4:M9:245:ASP:HB3	3:Z9:108:ARG:O	2.09	0.52
5:N9:37:HIS:O	5:N9:37:HIS:HD2	1.92	0.52
5:N9:54:LEU:HD21	3:T9:84:ARG:NE	2.14	0.52
2:I9:19:LEU:HD12	3:J9:41:VAL:CG1	2.39	0.52
2:I9:19:LEU:CD1	3:J9:41:VAL:HG11	2.40	0.52
11:a9:75:ALA:CB	11:a9:81:ASP:N	2.73	0.52
11:aA:95:ILE:HD13	11:aA:237:PHE:CE2	2.45	0.52
11:aA:629:LYS:HD3	11:aA:629:LYS:C	2.35	0.52
11:aA:632:ILE:H	11:aA:632:ILE:CD1	2.22	0.52
11:aA:776:TYR:HA	11:aA:780:GLN:HE22	1.75	0.52
11:aA:803:ASN:CB	3:J1:119:ALA:C	2.80	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M1:14:LEU:HD12	4:M1:14:LEU:N	2.25	0.52
4:M1:245:ASP:HB2	3:X1:108:ARG:HA	1.91	0.52
2:A2:31:PHE:CG	3:B2:34:SER:HB2	2.45	0.52
2:G2:15:GLN:C	6:M2:104:ARG:CD	2.83	0.52
3:J2:108:ARG:HH22	6:M2:155:ASN:CG	2.15	0.52
12:B4:202:CYC:HHA	4:M4:54:ALA:CB	2.07	0.52
4:M3:259:ARG:HG3	4:M3:259:ARG:HH21	1.75	0.52
4:M4:228:SER:HB3	2:X4:16:GLY:C	2.34	0.52
2:N4:34:ALA:HB1	3:O4:31:VAL:HG21	1.92	0.52
3:Q4:90:LEU:HB2	3:Q4:134:MET:SD	2.50	0.52
5:Z4:1:MET:O	5:Z4:3:VAL:N	2.43	0.52
8:C5:29:PHE:CE2	1:D5:5:ILE:CD1	2.93	0.52
8:E5:4:LEU:HD23	8:E5:26:ILE:CD1	2.38	0.52
8:G5:81:CYS:SG	12:G5:201:CYC:HAC2	2.50	0.52
6:M6:43:TRP:NE1	8:c7:56:ASP:OD2	2.42	0.52
7:N6:34:LEU:HB2	12:D6:201:CYC:OB	2.09	0.52
9:i5:42:GLN:HA	9:i5:45:GLN:HG2	1.91	0.52
10:j5:303:GLN:HG2	10:j5:421:PRO:HB2	1.91	0.52
10:j5:1097:VAL:HG12	10:j5:1097:VAL:O	2.10	0.52
10:k5:386:ILE:HG21	10:k5:395:SER:C	2.14	0.52
10:k5:822:ARG:CG	1:B7:106:GLU:OE2	2.58	0.52
8:G7:26:ILE:O	8:G7:30:VAL:HG13	2.10	0.52
8:g7:107:ILE:CD1	1:h7:13:ASP:OD2	2.57	0.52
8:a7:37:LEU:CD2	1:b7:24:LEU:HD21	2.38	0.52
2:A8:38:MET:CE	3:B8:28:THR:OG1	2.56	0.52
3:F8:111:ASN:ND2	4:M8:73:ASP:HA	2.25	0.52
4:M8:87:ILE:HD13	3:Y8:77:ARG:CB	2.30	0.52
4:M8:235:PHE:CG	12:M8:301:CYC:C3A	2.93	0.52
4:M9:35:THR:CA	12:B9:201:CYC:O2A	2.54	0.52
4:M9:259:ARG:HG3	4:M9:259:ARG:HH21	1.75	0.52
11:a9:50:LEU:HD22	11:a9:600:THR:HG21	1.91	0.52
11:a9:776:TYR:HA	11:a9:780:GLN:NE2	2.25	0.52
11:aA:713:ASN:OD1	12:aA:902:CYC:HMA1	2.10	0.52
4:M1:144:ARG:NH2	4:M1:205:ASP:OD1	2.43	0.52
3:LA:14:LEU:CD2	11:aA:358:PRO:CA	2.53	0.51
4:MA:74:LEU:O	4:MA:77:LEU:CD1	2.59	0.51
2:OA:65:TYR:O	2:OA:71:GLN:CG	2.54	0.51
2:QA:75:GLY:HA2	2:U1:141:GLN:HG2	1.91	0.51
3:J3:77:ARG:NH2	2:K3:107:ASP:CG	2.68	0.51
12:N2:101:CYC:HB	12:N2:101:CYC:HMA2	1.76	0.51
3:B3:88:ILE:CG2	12:B3:202:CYC:HMB2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B3:127:VAL:CG2	12:B3:202:CYC:HMC1	2.40	0.51
2:A4:34:ALA:HB1	3:B4:31:VAL:HG21	1.92	0.51
3:B4:82:CYS:CA	12:B4:202:CYC:HAC2	2.40	0.51
4:M3:20:THR:HG23	4:M3:67:LEU:HD11	1.92	0.51
4:M3:139:VAL:O	4:M3:139:VAL:HG12	2.09	0.51
2:G4:15:GLN:HB3	11:aA:120:ARG:HH11	1.75	0.51
4:M4:188:LEU:HD12	4:M4:188:LEU:C	2.35	0.51
8:O5:29:PHE:HE1	8:O5:99:GLY:N	2.08	0.51
8:O5:161:GLN:NE2	1:F5:49:THR:HG22	2.26	0.51
5:Z4:1:MET:HB2	5:Z4:3:VAL:HG23	1.91	0.51
8:A5:121:THR:CG2	12:A5:201:CYC:CHD	2.80	0.51
1:B5:14:VAL:CG1	10:k5:556:GLY:N	2.74	0.51
8:C5:29:PHE:HE1	8:C5:99:GLY:N	2.08	0.51
8:I5:84:ASP:OD2	12:I5:201:CYC:NA	2.43	0.51
8:S5:68:PRO:HG3	8:a5:59:PHE:HB3	1.91	0.51
8:U5:82:LEU:HB2	6:M6:31:ASP:HB3	1.92	0.51
8:W5:26:ILE:O	8:W5:30:VAL:HG13	2.09	0.51
8:a5:29:PHE:HE1	8:a5:99:GLY:N	2.08	0.51
1:b5:6:THR:HG21	10:k5:22:THR:HG23	1.90	0.51
6:M6:104:ARG:CD	2:G6:15:GLN:C	2.83	0.51
10:j5:182:ASN:HB2	12:j5:1201:CYC:HAB2	1.92	0.51
10:j5:450:ARG:HG3	10:j5:494:PRO:O	2.10	0.51
10:j5:614:ARG:HG2	10:j5:614:ARG:NH1	2.21	0.51
10:j5:1054:SER:CB	10:j5:1056:PRO:HD3	2.40	0.51
10:k5:192:LYS:HA	10:k5:192:LYS:HZ1	1.69	0.51
10:k5:284:PRO:HD2	10:k5:326:GLY:C	2.35	0.51
10:k5:793:SER:HB3	12:N7:201:CYC:HBA1	1.92	0.51
10:k5:951:MET:HE3	10:k5:951:MET:C	2.34	0.51
10:k5:1052:PRO:C	1:l7:106:GLU:HG2	2.34	0.51
10:k5:1118:THR:HG23	12:k5:1204:CYC:O2A	2.08	0.51
2:A6:60:TYR:CB	2:A6:67:THR:CG2	2.83	0.51
1:D7:76:ARG:CA	8:E7:110:ILE:O	2.58	0.51
8:M7:90:ARG:HB2	1:N7:18:TYR:CZ	2.45	0.51
8:k7:120:GLN:CG	1:p7:53:LYS:HZ1	2.23	0.51
8:Y7:26:ILE:O	8:Y7:30:VAL:HG13	2.09	0.51
8:a7:29:PHE:HE1	8:a7:99:GLY:N	2.08	0.51
8:o7:37:LEU:HD22	1:p7:24:LEU:HD13	1.92	0.51
8:u7:37:LEU:HD22	1:v7:24:LEU:HD13	1.92	0.51
4:M8:20:THR:HG23	4:M8:67:LEU:HD11	1.92	0.51
4:M9:153:LYS:HZ2	2:U9:14:SER:CB	2.24	0.51
5:N9:1:MET:O	5:N9:3:VAL:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I9:13:ASP:OD1	11:a9:515:GLY:HA2	2.09	0.51
11:a9:90:GLN:C	11:a9:92:LYS:H	2.17	0.51
11:aA:581:ARG:HD2	11:aA:581:ARG:C	2.35	0.51
11:aA:775:LYS:HA	12:H1:201:CYC:CBA	2.25	0.51
4:M1:112:GLN:NE2	4:M1:172:HIS:O	2.43	0.51
4:MA:139:VAL:O	4:MA:139:VAL:HG12	2.09	0.51
2:QA:81:LYS:HZ3	12:QA:201:CYC:CGA	2.24	0.51
12:R1:201:CYC:CBA	5:N1:53:LEU:HB3	2.39	0.51
12:J2:202:CYC:HB	12:J2:202:CYC:HMA2	1.76	0.51
6:M2:26:PHE:HD1	8:O5:83:ARG:HG2	1.74	0.51
3:B3:84:ARG:NH1	11:a9:680:SER:CB	2.73	0.51
3:B3:125:ARG:HD2	3:X3:14:LEU:CD1	2.39	0.51
3:B3:127:VAL:N	12:B3:202:CYC:CMC	2.73	0.51
3:L3:84:ARG:CD	11:a9:739:ASP:HA	2.39	0.51
4:M3:74:LEU:O	4:M3:77:LEU:CD1	2.59	0.51
4:M3:93:LEU:HD21	4:M3:102:VAL:HG22	1.92	0.51
3:B1:112:GLY:H	4:M1:76:ALA:HB1	1.73	0.51
3:Y4:106:GLU:HA	3:Y4:110:LEU:HD12	1.91	0.51
8:A5:81:CYS:SG	12:A5:201:CYC:HAC2	2.50	0.51
12:F5:201:CYC:HMD1	12:F5:201:CYC:NC	2.09	0.51
12:H5:201:CYC:HBA1	9:i5:26:THR:CG2	2.35	0.51
8:I5:61:ILE:HG22	8:I5:62:ARG:HG2	1.93	0.51
8:Q5:18:LEU:HD22	1:R5:97:LEU:HD11	1.90	0.51
10:j5:18:ARG:HH12	10:j5:268:SER:HB3	1.73	0.51
10:j5:925:ILE:HD12	10:j5:925:ILE:C	2.36	0.51
10:j5:1008:PHE:CG	12:v7:201:CYC:OB	2.63	0.51
10:k5:449:ARG:HH21	10:k5:449:ARG:CG	2.10	0.51
10:k5:540:LEU:HD11	10:k5:544:VAL:CG2	2.39	0.51
10:k5:776:PHE:HB3	10:k5:780:ILE:CG1	2.40	0.51
2:A6:31:PHE:CG	3:B6:34:SER:HB2	2.45	0.51
1:R7:107:ARG:HA	9:z7:45:GLN:NE2	2.26	0.51
1:J7:76:ARG:CA	8:K7:110:ILE:O	2.58	0.51
8:i7:8:ILE:HG23	1:j7:94:TYR:CE1	2.45	0.51
8:W7:126:VAL:HG22	12:W7:201:CYC:H3C	1.91	0.51
1:d7:3:ASP:H	1:d7:6:THR:HG1	1.57	0.51
8:o7:30:VAL:CG1	1:p7:31:PHE:HA	2.40	0.51
8:o7:90:ARG:CA	1:p7:18:TYR:CZ	2.93	0.51
8:o7:121:THR:HG22	12:o7:201:CYC:HMC3	1.81	0.51
8:u7:30:VAL:CG1	1:v7:31:PHE:HA	2.40	0.51
3:U8:115:GLU:CG	4:M8:74:LEU:CD1	2.71	0.51
2:N8:31:PHE:CG	3:O8:34:SER:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N8:38:MET:CE	3:O8:28:THR:OG1	2.56	0.51
3:S8:116:THR:CG2	3:S8:117:TYR:H	2.24	0.51
11:a9:419:ARG:CG	11:a9:419:ARG:NH1	2.71	0.51
11:aA:418:LEU:HD22	11:aA:428:PHE:CD2	2.45	0.51
3:LA:41:VAL:HG21	3:LA:98:LEU:HD13	1.93	0.51
3:LA:107:ASP:O	11:aA:531:ASP:CG	2.53	0.51
5:NA:50:LEU:C	5:NA:50:LEU:CD1	2.84	0.51
3:H2:14:LEU:HD22	6:M2:67:GLY:CA	2.38	0.51
12:J4:201:CYC:HB	12:J4:201:CYC:HMA2	1.76	0.51
4:M4:27:HIS:NE2	4:M4:34:ASP:N	2.57	0.51
2:N4:25:GLN:HG2	2:X4:33:ARG:CG	2.38	0.51
3:Q4:124:THR:HB	3:Q4:172:ALA:CA	2.40	0.51
8:K5:12:ASP:HA	1:L5:94:TYR:OH	2.10	0.51
1:N5:107:ARG:NH2	10:k5:482:GLN:CD	2.69	0.51
8:O5:151:PHE:O	8:E5:20:PRO:HG3	2.10	0.51
5:Z4:29:HIS:CB	5:Z4:31:TRP:HD1	2.23	0.51
1:D5:62:TYR:HH	12:E5:201:CYC:CGD	2.15	0.51
8:G5:12:ASP:CG	1:H5:91:TYR:HE1	2.18	0.51
8:c5:90:ARG:HB2	1:d5:18:TYR:CZ	2.45	0.51
8:W5:109:ILE:HD13	8:W5:159:ALA:HB1	1.91	0.51
12:J6:202:CYC:HMA2	12:J6:202:CYC:HB	1.76	0.51
12:L6:201:CYC:HMA2	12:L6:201:CYC:HB	1.76	0.51
6:M6:271:VAL:HG21	1:d7:127:VAL:CG2	2.40	0.51
9:z5:6:LYS:HB2	9:z5:55:LYS:HB3	1.84	0.51
10:j5:254:PRO:HG2	10:j5:434:TRP:CH2	2.45	0.51
10:j5:929:PRO:HG3	1:J7:147:LYS:NZ	2.24	0.51
10:j5:978:LEU:HD21	1:v7:107:ARG:NE	2.20	0.51
10:k5:303:GLN:HG2	10:k5:421:PRO:HB2	1.91	0.51
10:k5:990:ARG:CG	10:k5:990:ARG:NH1	2.72	0.51
10:k5:1006:ASP:OD1	10:k5:1065:HIS:CD2	2.64	0.51
10:k5:1144:SER:CB	1:l7:13:ASP:OD2	2.58	0.51
12:F6:201:CYC:HB	12:F6:201:CYC:HMA2	1.75	0.51
8:Q7:17:TYR:CE2	1:R7:90:ARG:HA	2.46	0.51
8:E7:26:ILE:O	8:E7:30:VAL:HG13	2.09	0.51
8:K7:17:TYR:CE2	1:L7:90:ARG:HA	2.46	0.51
8:k7:26:ILE:O	8:k7:30:VAL:HG13	2.09	0.51
8:W7:109:ILE:HD13	8:W7:159:ALA:HB1	1.91	0.51
12:B8:202:CYC:C2D	4:M8:53:LEU:HD23	2.39	0.51
8:m7:90:ARG:NH1	1:n7:16:GLY:HA2	2.25	0.51
12:p7:201:CYC:HMD1	12:p7:201:CYC:NC	2.09	0.51
9:x7:9:ALA:CB	9:x7:44:ILE:HD11	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:x7:14:LEU:HD13	9:x7:14:LEU:O	2.09	0.51
3:F8:1:MET:CB	4:M8:10:ARG:HA	2.35	0.51
4:M8:259:ARG:HG3	4:M8:259:ARG:HH21	1.75	0.51
3:Q8:72:ASN:OD1	12:Z8:301:CYC:NC	2.42	0.51
3:Q8:116:THR:C	5:Z8:40:SER:HA	2.35	0.51
3:L9:109:CYS:O	11:a9:532:ALA:CB	2.49	0.51
4:M9:93:LEU:HD21	4:M9:102:VAL:HG22	1.92	0.51
4:M9:112:GLN:HG2	4:M9:219:PRO:O	2.10	0.51
5:N9:22:LEU:HD21	5:N9:26:LEU:CG	2.29	0.51
11:a9:91:THR:HG22	11:a9:96:THR:CA	2.21	0.51
11:a9:291:TYR:C	11:a9:293:LEU:N	2.68	0.51
11:aA:613:TYR:N	11:aA:613:TYR:CD1	2.76	0.51
4:M1:74:LEU:O	4:M1:77:LEU:CD1	2.59	0.51
4:M1:268:ARG:O	3:V1:111:ASN:ND2	2.44	0.51
5:N1:23:SER:C	5:N1:25:THR:H	2.15	0.51
5:N1:57:MET:HE2	5:N1:67:ILE:HG13	1.92	0.51
2:A2:34:ALA:HB1	3:B2:31:VAL:HG21	1.92	0.51
1:Z:59:ALA:O	1:Z:60:LEU:HD23	2.11	0.51
4:MA:20:THR:HG23	4:MA:67:LEU:HD11	1.92	0.51
4:MA:181:GLN:CD	3:VA:120:LEU:CD2	2.78	0.51
2:A1:34:ALA:HB1	3:B1:31:VAL:HG21	1.92	0.51
12:L2:201:CYC:HMA2	12:L2:201:CYC:HB	1.76	0.51
2:A3:60:TYR:CB	2:A3:67:THR:CG2	2.83	0.51
12:P3:201:CYC:HMA2	12:P3:201:CYC:HB	1.76	0.51
12:U4:201:CYC:HMA2	12:U4:201:CYC:HB	1.76	0.51
3:F4:84:ARG:HH22	11:aA:143:SER:HB3	1.75	0.51
4:M4:29:PRO:HG2	11:aA:230:THR:OG1	2.10	0.51
1:L5:76:ARG:CA	8:G5:110:ILE:O	2.59	0.51
8:A5:53:GLN:O	8:A5:53:GLN:HG3	2.10	0.51
8:A5:110:ILE:O	1:F5:76:ARG:CA	2.59	0.51
1:d5:127:VAL:CG1	10:j5:697:PHE:C	2.82	0.51
8:e5:109:ILE:HD13	8:e5:159:ALA:HB1	1.91	0.51
8:S5:26:ILE:O	8:S5:30:VAL:HG13	2.09	0.51
1:T5:53:LYS:CE	8:U5:120:GLN:NE2	2.69	0.51
8:U5:76:LYS:CD	8:U5:77:MET:HE1	2.14	0.51
1:Z5:63:SER:OG	10:k5:703:LEU:O	2.28	0.51
12:Z5:201:CYC:O2D	10:k5:372:ARG:NH1	2.29	0.51
6:M6:65:VAL:HG12	1:b7:59:ALA:CA	2.40	0.51
6:M6:271:VAL:CG2	1:d7:127:VAL:CB	2.84	0.51
6:M6:278:ARG:HH21	1:d7:64:ASP:N	2.08	0.51
10:j5:1020:GLU:HG3	1:f7:87:TYR:OH	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:213:LEU:HD12	10:k5:213:LEU:N	2.26	0.51
10:k5:1034:GLU:OE2	10:k5:1034:GLU:HA	2.09	0.51
8:O7:90:ARG:NH1	1:P7:16:GLY:HA2	2.25	0.51
8:C7:61:ILE:HG22	8:C7:62:ARG:HG2	1.93	0.51
1:H7:136:VAL:CA	11:aA:563:PHE:HZ	2.21	0.51
8:g7:29:PHE:HE1	8:g7:99:GLY:N	2.08	0.51
8:g7:29:PHE:CD1	8:g7:99:GLY:HA3	2.43	0.51
8:U7:29:PHE:HE1	8:U7:99:GLY:N	2.08	0.51
8:U7:90:ARG:NH1	1:V7:16:GLY:HA2	2.25	0.51
8:a7:61:ILE:HG22	8:a7:62:ARG:HG2	1.92	0.51
2:A8:31:PHE:CG	3:B8:34:SER:HB2	2.45	0.51
8:o7:58:LEU:HG	8:o7:59:PHE:CD1	2.46	0.51
8:q7:94:TYR:OH	1:r7:17:LYS:O	2.24	0.51
12:U8:201:CYC:HB	12:U8:201:CYC:HMA2	1.76	0.51
3:L8:71:GLY:HA2	11:a9:82:GLN:CG	2.38	0.51
4:M8:96:LYS:HE3	3:Q8:89:ILE:HG12	1.93	0.51
4:M8:148:LYS:HG2	4:M8:148:LYS:O	2.09	0.51
4:M8:235:PHE:CB	12:M8:301:CYC:CMA	2.83	0.51
12:O8:201:CYC:OB	5:Z8:54:LEU:HD12	2.11	0.51
5:N9:74:GLU:HA	3:R9:111:ASN:HD21	1.74	0.51
5:Z8:37:HIS:CE1	12:Z8:301:CYC:HBA1	2.45	0.51
5:Z8:41:GLN:O	5:Z8:41:GLN:HG3	2.10	0.51
2:A9:34:ALA:HB1	3:B9:31:VAL:HG21	1.92	0.51
3:B9:14:LEU:CD1	3:X9:125:ARG:HD2	2.40	0.51
4:M1:51:ARG:HB3	4:M1:51:ARG:NH1	2.23	0.51
4:M1:139:VAL:O	4:M1:139:VAL:HG12	2.09	0.51
1:A:75:THR:OG1	10:k5:182:ASN:CA	2.50	0.51
1:A:161:SER:C	1:R5:14:VAL:HG21	2.35	0.51
3:JA:78:ARG:HH12	11:aA:359:ASP:CA	2.04	0.51
3:JA:88:ILE:HD13	11:aA:512:TYR:CG	2.46	0.51
2:OA:31:PHE:CG	3:PA:34:SER:HB2	2.45	0.51
2:QA:68:GLN:CG	2:QA:69:PRO:CD	2.88	0.51
2:O1:31:PHE:CG	3:P1:34:SER:HB2	2.45	0.51
2:S1:16:GLY:HA2	5:N1:31:TRP:NE1	2.25	0.51
2:A3:16:GLY:CA	11:a9:677:GLN:CD	2.80	0.51
2:A4:65:TYR:O	2:A4:71:GLN:CG	2.54	0.51
4:M3:22:SER:HB3	4:M3:23:PRO:CD	2.41	0.51
4:M3:130:SER:HB3	3:P3:84:ARG:CZ	2.40	0.51
3:S4:116:THR:CG2	3:S4:117:TYR:H	2.24	0.51
4:M4:74:LEU:O	4:M4:77:LEU:CD1	2.59	0.51
2:N4:112:GLY:N	5:Z4:34:LEU:HA	2.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q4:84:ARG:HH11	5:Z4:29:HIS:HB2	1.75	0.51
3:Q4:105:LEU:HD22	3:Q4:166:LYS:CD	2.41	0.51
8:K5:116:TYR:HB3	8:K5:123:ILE:HG12	1.93	0.51
1:B5:76:ARG:CD	9:z5:14:LEU:O	2.58	0.51
1:D5:62:TYR:HE1	12:E5:201:CYC:O1D	1.94	0.51
8:I5:109:ILE:HD13	8:I5:159:ALA:HB1	1.91	0.51
8:U5:35:ARG:NH2	8:U5:145:ASP:OD1	2.42	0.51
1:X5:64:ASP:CB	10:j5:704:THR:CG2	2.88	0.51
8:a5:95:GLY:H	8:a5:104:ILE:HD11	1.74	0.51
9:i5:6:LYS:HZ3	9:i5:29:THR:CG2	2.22	0.51
10:j5:776:PHE:HB3	10:j5:780:ILE:CG1	2.40	0.51
10:k5:1009:ALA:CA	1:p7:87:TYR:CE1	2.91	0.51
10:k5:1105:ILE:HD11	10:k5:1115:ARG:HH22	1.71	0.51
8:O7:29:PHE:HE1	8:O7:99:GLY:N	2.08	0.51
8:C7:90:ARG:NH1	1:D7:16:GLY:HA2	2.25	0.51
1:F7:3:ASP:H	1:F7:6:THR:HG1	1.58	0.51
8:I7:27:LYS:O	8:I7:30:VAL:HG22	2.09	0.51
8:I7:90:ARG:NH1	1:J7:16:GLY:HA2	2.25	0.51
8:M7:49:ARG:HD2	11:a9:550:PHE:CZ	2.33	0.51
8:g7:61:ILE:HG22	8:g7:62:ARG:HG2	1.93	0.51
8:i7:54:ALA:HB3	8:i7:133:MET:HG3	1.85	0.51
8:c7:130:VAL:O	8:c7:130:VAL:HG12	2.10	0.51
2:A8:34:ALA:HB1	3:B8:31:VAL:HG21	1.92	0.51
3:B8:85:ASP:CG	3:B8:117:TYR:OH	2.53	0.51
9:w7:34:TYR:CD1	9:w7:34:TYR:C	2.87	0.51
4:M8:74:LEU:O	4:M8:77:LEU:CD1	2.58	0.51
3:Q8:72:ASN:CG	12:Z8:301:CYC:HMD1	2.30	0.51
3:L9:14:LEU:HD11	11:a9:358:PRO:HB2	1.76	0.51
12:L9:201:CYC:HAB2	2:K9:24:LEU:CB	2.34	0.51
4:M9:61:ASN:C	4:M9:63:GLY:N	2.64	0.51
4:M9:144:ARG:NH2	4:M9:205:ASP:OD1	2.43	0.51
4:M9:158:PHE:CZ	2:U9:10:ALA:CB	2.92	0.51
2:O9:31:PHE:CG	3:P9:34:SER:HB2	2.45	0.51
12:H9:202:CYC:HB	12:H9:202:CYC:HMA2	1.76	0.51
3:J9:88:ILE:HD13	11:a9:512:TYR:CG	2.46	0.51
11:a9:358:PRO:HG2	11:a9:358:PRO:O	2.11	0.51
11:aA:34:ILE:O	11:aA:34:ILE:HG22	2.09	0.51
11:aA:67:GLN:C	11:aA:68:THR:CG2	2.79	0.51
11:aA:445:THR:HB	11:aA:542:ALA:O	2.11	0.51
11:aA:668:TYR:HD1	3:J1:84:ARG:CD	2.19	0.51
4:M1:188:LEU:HD12	4:M1:188:LEU:C	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Z1:202:CYC:HB	12:Z1:202:CYC:HMA2	1.76	0.51
1:A:59:ALA:O	1:A:60:LEU:HD23	2.11	0.51
2:AA:138:VAL:HG12	2:AA:138:VAL:O	2.11	0.51
2:EA:152:ALA:HB1	2:IA:21:ASN:CG	2.36	0.51
3:HA:123:PRO:HG2	12:HA:202:CYC:HMC1	1.92	0.51
2:KA:18:PHE:CB	3:LA:45:THR:HG23	2.40	0.51
3:LA:51:ILE:HG21	3:LA:90:LEU:HD11	1.86	0.51
3:J3:81:ALA:HA	11:a9:668:TYR:CD2	2.46	0.51
2:K3:33:ARG:CG	2:A3:25:GLN:HG2	2.38	0.51
6:M2:55:PRO:HA	1:h7:62:TYR:CG	2.46	0.51
7:N2:1:MET:N	7:N2:1:MET:CE	2.72	0.51
3:B3:84:ARG:NH1	11:a9:680:SER:HB3	2.26	0.51
3:B3:112:GLY:H	4:M3:76:ALA:HB1	1.73	0.51
3:B4:116:THR:CG2	3:B4:117:TYR:H	2.23	0.51
4:M3:112:GLN:NE2	4:M3:172:HIS:O	2.43	0.51
12:F4:202:CYC:CMA	11:aA:144:LEU:HD23	2.40	0.51
4:M4:259:ARG:HG3	4:M4:259:ARG:HH21	1.75	0.51
1:N5:59:ALA:O	1:N5:60:LEU:HD23	2.11	0.51
8:E5:12:ASP:HA	1:F5:94:TYR:OH	2.10	0.51
1:F5:1:MET:O	1:F5:1:MET:HG3	2.03	0.51
1:F5:14:VAL:HG12	9:z5:64:ASN:HD21	1.76	0.51
1:d5:124:ALA:HB1	10:j5:699:SER:CB	2.37	0.51
12:d5:201:CYC:HB	12:d5:201:CYC:HMA3	1.73	0.51
12:d5:201:CYC:HMA2	10:j5:379:PHE:CZ	2.46	0.51
8:W5:17:TYR:CE2	1:X5:93:THR:CB	2.91	0.51
10:j5:307:ARG:HH12	10:j5:346:GLU:CD	2.10	0.51
10:j5:1023:SER:CA	12:f7:201:CYC:HBA1	2.40	0.51
10:k5:77:VAL:CG2	10:k5:141:GLU:CB	2.89	0.51
10:k5:254:PRO:HG2	10:k5:434:TRP:CH2	2.45	0.51
10:k5:605:ARG:O	10:k5:605:ARG:HG2	2.11	0.51
10:k5:1025:LEU:CA	10:k5:1030:ILE:CG2	2.79	0.51
8:S7:61:ILE:HG22	8:S7:62:ARG:HG2	1.93	0.51
8:E7:116:TYR:HB3	8:E7:123:ILE:HG12	1.91	0.51
8:M7:26:ILE:O	8:M7:30:VAL:HG13	2.09	0.51
12:h7:201:CYC:HB	12:h7:201:CYC:HMA3	1.73	0.51
8:k7:66:VAL:CG1	11:a9:65:LEU:HD22	2.40	0.51
8:k7:90:ARG:HB2	1:l7:18:TYR:CZ	2.45	0.51
8:W7:26:ILE:O	8:W7:30:VAL:HG13	2.09	0.51
8:Y7:110:ILE:O	1:d7:76:ARG:N	2.43	0.51
4:M8:103:GLN:O	4:M8:104:ALA:C	2.53	0.51
2:N8:115:GLU:HB3	5:Z8:33:GLY:CA	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:264:LYS:N	3:V9:119:ALA:CB	2.74	0.51
5:N9:37:HIS:O	12:P9:201:CYC:CMA	2.59	0.51
3:Y8:113:LEU:HB3	3:Y8:171:ILE:HA	1.92	0.51
2:C9:138:VAL:HG12	2:C9:138:VAL:O	2.11	0.51
2:I9:1:MET:CE	2:I9:108:TYR:CE1	2.83	0.51
2:U9:138:VAL:O	2:U9:138:VAL:HG12	2.11	0.51
12:X9:201:CYC:HB	12:X9:201:CYC:HMA2	1.76	0.51
11:a9:93:LEU:CD1	11:a9:93:LEU:H	2.23	0.51
11:a9:325:LEU:HD23	11:a9:325:LEU:N	2.23	0.51
11:a9:455:ASN:OD1	11:a9:455:ASN:N	2.40	0.51
11:a9:613:TYR:CD1	11:a9:613:TYR:N	2.76	0.51
11:aA:93:LEU:N	11:aA:93:LEU:CD1	2.72	0.51
11:aA:776:TYR:HA	11:aA:780:GLN:NE2	2.25	0.51
11:aA:802:ARG:O	11:aA:804:ARG:N	2.43	0.51
5:N1:29:HIS:HD2	5:N1:36:THR:HG23	1.76	0.51
3:B2:77:ARG:CG	3:B2:77:ARG:NH1	2.72	0.51
1:Z:127:VAL:HG13	1:X5:15:GLN:OE1	2.08	0.51
3:BA:14:LEU:CD1	3:XA:125:ARG:HD2	2.40	0.51
2:IA:16:GLY:CA	3:JA:91:ARG:HH11	2.20	0.51
3:LA:14:LEU:HD21	11:aA:358:PRO:CD	2.40	0.51
4:MA:14:LEU:HD12	4:MA:14:LEU:N	2.24	0.51
5:NA:6:GLY:HA3	3:RA:108:ARG:O	2.11	0.51
12:P1:201:CYC:HMA2	12:P1:201:CYC:HB	1.76	0.51
3:J3:77:ARG:HD2	2:K3:107:ASP:O	2.11	0.51
3:L2:77:ARG:HH22	6:M2:70:GLU:CG	2.16	0.51
2:A4:25:GLN:HG2	2:K4:33:ARG:CG	2.38	0.51
4:M4:152:TYR:CD1	4:M4:152:TYR:C	2.87	0.51
4:M4:227:GLN:C	3:Y4:91:ARG:NH2	2.68	0.51
3:O4:119:ALA:HB2	5:Z4:72:GLU:N	2.19	0.51
8:A5:111:GLY:HA3	1:F5:76:ARG:CA	2.36	0.51
8:A5:126:VAL:N	12:A5:201:CYC:HMC1	2.26	0.51
8:C5:109:ILE:HD13	8:C5:159:ALA:HB1	1.91	0.51
12:D5:201:CYC:NB	9:z5:38:PHE:CE2	2.78	0.51
8:e5:29:PHE:HE1	8:e5:99:GLY:N	2.08	0.51
1:Z5:127:VAL:HB	10:k5:698:GLY:CA	2.40	0.51
1:b5:3:ASP:H	1:b5:6:THR:HG1	1.57	0.51
6:M6:127:SER:C	12:F6:201:CYC:HBA1	2.30	0.51
10:j5:540:LEU:HD11	10:j5:544:VAL:HG22	1.93	0.51
10:k5:357:LEU:HD23	10:k5:401:LEU:HD13	1.93	0.51
10:k5:955:LEU:HD13	8:o7:80:LEU:HD21	1.92	0.51
10:k5:1097:VAL:O	10:k5:1097:VAL:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:1136:ILE:O	10:k5:1136:ILE:HG22	2.09	0.51
12:D6:201:CYC:HMA2	12:D6:201:CYC:HB	1.76	0.51
3:F6:82:CYS:SG	12:F6:201:CYC:C3C	2.98	0.51
8:O7:47:ARG:HD3	1:P7:18:TYR:CE1	2.46	0.51
8:S7:120:GLN:CG	1:X7:53:LYS:HZ1	2.21	0.51
8:I7:47:ARG:HD3	1:J7:18:TYR:CE1	2.46	0.51
8:M7:61:ILE:HG22	8:M7:62:ARG:HG2	1.93	0.51
1:Z7:67:ARG:NH1	11:a9:307:ARG:CG	2.72	0.51
8:a7:109:ILE:HD13	8:a7:159:ALA:HB1	1.91	0.51
1:b7:119:LEU:HD21	9:x7:12:PRO:HB3	1.93	0.51
8:c7:17:TYR:HE2	1:d7:93:THR:OG1	1.86	0.51
2:C8:138:VAL:HG12	2:C8:138:VAL:O	2.11	0.51
8:m7:61:ILE:HG22	8:m7:62:ARG:HG2	1.93	0.51
8:o7:109:ILE:HD13	8:o7:159:ALA:HB1	1.91	0.51
8:u7:45:GLU:HA	8:u7:45:GLU:OE2	2.09	0.51
12:W8:201:CYC:HMA2	12:W8:201:CYC:HB	1.76	0.51
12:H8:201:CYC:HMA2	12:H8:201:CYC:HB	1.76	0.51
4:M8:176:ARG:CG	4:M8:176:ARG:NH1	2.70	0.51
12:N8:201:CYC:C2B	3:Q8:76:ASN:ND2	2.73	0.51
3:F9:43:ALA:HB3	3:F9:142:VAL:HG22	1.91	0.51
12:J9:202:CYC:HBA2	11:a9:510:PHE:C	2.33	0.51
12:V9:201:CYC:HB	12:V9:201:CYC:HMA2	1.76	0.51
11:a9:75:ALA:CB	11:a9:81:ASP:OD1	2.25	0.51
11:aA:90:GLN:C	11:aA:92:LYS:H	2.17	0.51
11:aA:320:ASP:O	11:aA:321:ALA:C	2.50	0.51
11:aA:412:VAL:CA	11:aA:415:GLU:OE2	2.59	0.51
5:N1:37:HIS:O	5:N1:38:GLU:C	2.49	0.51
2:E2:138:VAL:HG12	2:E2:138:VAL:O	2.11	0.51
3:F2:78:ARG:NH1	12:F2:201:CYC:O2D	2.40	0.51
12:BA:201:CYC:HAA1	4:MA:36:TYR:CZ	2.45	0.51
3:JA:70:GLY:C	11:aA:357:THR:H	2.17	0.51
3:LA:98:LEU:O	3:LA:99:ALA:C	2.48	0.51
4:MA:112:GLN:NE2	4:MA:172:HIS:O	2.43	0.51
5:NA:37:HIS:O	12:PA:201:CYC:CMA	2.59	0.51
2:K3:22:THR:HB	2:A3:2:LYS:HE2	1.93	0.51
3:J2:88:ILE:HD11	6:M2:185:PHE:HE1	1.74	0.51
7:N2:49:LEU:CD1	3:B2:84:ARG:NE	2.74	0.51
3:F4:112:GLY:HA2	4:M4:76:ALA:CB	2.40	0.51
4:M4:112:GLN:NE2	4:M4:172:HIS:O	2.43	0.51
1:L5:59:ALA:O	1:L5:60:LEU:HD23	2.11	0.51
5:Z4:36:THR:OG1	5:Z4:37:HIS:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z4:57:MET:HE2	5:Z4:67:ILE:HG13	1.92	0.51
1:B5:59:ALA:O	1:B5:60:LEU:HD23	2.11	0.51
1:H5:59:ALA:O	1:H5:60:LEU:HD23	2.11	0.51
1:Z5:161:SER:OG	10:k5:696:ARG:CA	2.55	0.51
6:M6:245:SER:OG	12:H6:201:CYC:HMA1	2.11	0.51
8:A7:90:ARG:HB2	1:B7:18:TYR:CZ	2.45	0.51
8:A7:94:TYR:OH	1:B7:17:LYS:O	2.24	0.51
10:j5:298:ARG:HH11	10:j5:298:ARG:HA	1.76	0.51
10:j5:511:ARG:NH1	10:j5:683:ARG:O	2.44	0.51
10:j5:722:ILE:O	10:j5:722:ILE:HG22	2.11	0.51
10:j5:1043:GLU:CD	8:e7:14:GLU:CG	2.84	0.51
10:k5:192:LYS:CE	10:k5:192:LYS:CA	2.85	0.51
10:k5:612:ILE:HD12	10:k5:612:ILE:N	2.06	0.51
10:k5:1081:VAL:HG21	12:k5:1203:CYC:HMA2	1.90	0.51
12:P7:201:CYC:HBB2	9:z7:21:ARG:HA	1.93	0.51
1:h7:75:THR:HG22	8:i7:115:MET:HE1	1.88	0.51
8:a7:161:GLN:CG	1:p7:49:THR:CG2	2.89	0.51
8:c7:126:VAL:O	8:c7:126:VAL:HG12	2.11	0.51
1:r7:59:ALA:O	1:r7:60:LEU:HD23	2.11	0.51
8:s7:90:ARG:NH1	1:t7:16:GLY:HA2	2.25	0.51
12:F8:202:CYC:CMA	11:a9:144:LEU:HD23	2.41	0.51
12:J8:201:CYC:HMA2	12:J8:201:CYC:HB	1.76	0.51
4:M8:205:ASP:CB	5:Z8:59:ARG:HH11	2.24	0.51
12:M8:301:CYC:CAC	3:Y8:82:CYS:SG	2.95	0.51
2:N8:115:GLU:OE2	5:Z8:32:PRO:HD2	2.06	0.51
3:Q8:84:ARG:HH12	5:Z8:36:THR:HG23	1.76	0.51
5:N9:6:GLY:HA3	3:R9:108:ARG:O	2.11	0.51
5:N9:36:THR:OG1	12:P9:201:CYC:CMA	2.59	0.51
2:O9:2:LYS:HE2	2:Y9:22:THR:HB	1.93	0.51
2:O9:138:VAL:O	2:O9:138:VAL:HG12	2.11	0.51
5:Z8:1:MET:O	5:Z8:3:VAL:N	2.44	0.51
5:Z8:57:MET:HE2	5:Z8:67:ILE:HG13	1.92	0.51
3:F9:148:VAL:O	3:F9:149:THR:O	2.29	0.51
3:H9:108:ARG:NH2	11:a9:477:TYR:CZ	2.79	0.51
3:H9:120:LEU:HD13	12:H9:202:CYC:CHA	2.40	0.51
2:I9:16:GLY:CA	3:J9:91:ARG:HH11	2.19	0.51
2:G1:107:ASP:O	3:L1:77:ARG:HD2	2.11	0.51
11:a9:61:TYR:HA	11:a9:65:LEU:CB	2.41	0.51
11:a9:412:VAL:CA	11:a9:415:GLU:OE2	2.59	0.51
2:EA:21:ASN:ND2	12:F9:302:CYC:HBB1	2.26	0.51
4:MA:205:ASP:OD2	5:NA:52:ARG:CZ	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:259:ARG:HH12	3:VA:116:THR:N	2.07	0.51
5:NA:36:THR:OG1	12:PA:201:CYC:CMA	2.59	0.51
2:I3:138:VAL:HG12	2:I3:138:VAL:O	2.11	0.51
12:Z3:201:CYC:HB	12:Z3:201:CYC:HMA2	1.76	0.51
3:D4:107:ASP:CB	11:aA:109:ASN:HB3	2.41	0.51
3:L3:77:ARG:HD3	11:a9:824:VAL:O	2.09	0.51
5:N3:21:ALA:HA	5:N3:42:SER:O	2.11	0.51
12:X3:201:CYC:HMA2	12:X3:201:CYC:HB	1.76	0.51
4:M4:93:LEU:HD21	4:M4:102:VAL:HG22	1.92	0.51
2:N4:60:TYR:CB	2:N4:67:THR:CG2	2.83	0.51
2:N4:138:VAL:O	2:N4:138:VAL:HG12	2.11	0.51
3:O4:116:THR:OG1	5:Z4:70:ILE:HD12	2.11	0.51
3:O4:119:ALA:HB1	5:Z4:72:GLU:CD	2.22	0.51
8:M5:90:ARG:HD2	1:N5:18:TYR:N	2.24	0.51
12:Z4:301:CYC:HMA2	12:Z4:301:CYC:HB	1.76	0.51
8:C5:61:ILE:HG22	8:C5:62:ARG:HG2	1.93	0.51
8:E5:151:PHE:HE1	1:P5:42:ALA:HB2	1.76	0.51
8:c5:61:ILE:HG22	8:c5:62:ARG:HG2	1.93	0.51
1:d5:127:VAL:HB	10:j5:698:GLY:CA	2.40	0.51
1:V5:59:ALA:O	1:V5:60:LEU:HD23	2.11	0.51
8:W5:8:ILE:HG23	1:X5:94:TYR:CG	2.46	0.51
12:X5:201:CYC:OB	10:j5:520:ARG:HG2	2.10	0.51
2:K6:22:THR:HB	2:A6:2:LYS:HE2	1.93	0.51
6:M6:50:LEU:HB3	8:c7:83:ARG:HG3	1.92	0.51
9:z5:16:ARG:NE	9:z5:16:ARG:CA	2.73	0.51
9:i5:16:ARG:NE	9:i5:16:ARG:CA	2.73	0.51
10:j5:489:ASN:C	10:j5:490:SER:OG	2.38	0.51
10:j5:948:SER:O	10:j5:948:SER:OG	2.16	0.51
10:j5:1020:GLU:HG2	1:f7:87:TYR:CZ	2.45	0.51
10:j5:1052:PRO:CB	1:r7:106:GLU:OE2	2.59	0.51
10:k5:249:SER:HB2	10:k5:254:PRO:O	2.10	0.51
10:k5:309:LEU:CD1	10:k5:342:LEU:HD13	2.41	0.51
10:k5:477:ASP:OD1	10:k5:477:ASP:N	2.41	0.51
10:k5:511:ARG:NH1	10:k5:683:ARG:O	2.44	0.51
10:k5:546:PHE:CD1	10:k5:561:GLU:OE1	2.64	0.51
10:k5:676:GLU:O	10:k5:676:GLU:HG3	2.02	0.51
10:k5:1008:PHE:CE1	12:p7:201:CYC:C3B	2.94	0.51
10:k5:1051:GLU:HB3	10:k5:1052:PRO:HD3	1.93	0.51
10:k5:1054:SER:CB	10:k5:1056:PRO:HD3	2.40	0.51
1:B7:59:ALA:O	1:B7:60:LEU:HD23	2.11	0.51
1:B7:136:VAL:HG22	11:a9:563:PHE:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C7:29:PHE:HE1	8:C7:99:GLY:N	2.08	0.51
1:L7:59:ALA:O	1:L7:60:LEU:HD23	2.11	0.51
8:U7:47:ARG:HD3	1:V7:18:TYR:CE1	2.46	0.51
1:b7:59:ALA:O	1:b7:60:LEU:HD23	2.11	0.51
1:f7:59:ALA:O	1:f7:60:LEU:HD23	2.11	0.51
2:E8:138:VAL:O	2:E8:138:VAL:HG12	2.11	0.51
1:n7:59:ALA:O	1:n7:60:LEU:HD23	2.11	0.51
1:n7:75:THR:HB	8:o7:111:GLY:O	2.11	0.51
8:s7:29:PHE:HE1	8:s7:99:GLY:N	2.08	0.51
8:u7:58:LEU:HG	8:u7:59:PHE:CD1	2.46	0.51
3:H8:84:ARG:NE	11:a9:131:TYR:CD1	2.78	0.51
4:M9:20:THR:HG23	4:M9:67:LEU:HD11	1.92	0.51
4:M9:112:GLN:NE2	4:M9:172:HIS:O	2.43	0.51
4:M9:185:ALA:CA	12:V9:201:CYC:O2A	2.51	0.51
4:M9:259:ARG:HH12	3:V9:116:THR:H	1.59	0.51
2:I9:16:GLY:CA	11:a9:514:VAL:HG11	2.36	0.51
11:a9:319:LEU:O	11:a9:322:ALA:HB3	2.11	0.51
11:a9:328:GLN:NE2	11:a9:328:GLN:N	2.58	0.51
5:N1:1:MET:O	5:N1:3:VAL:N	2.43	0.51
4:MA:158:PHE:CE1	2:UA:10:ALA:CA	2.91	0.51
4:MA:259:ARG:HG3	4:MA:259:ARG:HH21	1.75	0.51
2:QA:18:PHE:CZ	3:RA:48:ALA:HB2	2.43	0.51
2:O1:2:LYS:HE2	2:Y1:22:THR:HB	1.93	0.51
12:R1:201:CYC:HB	12:R1:201:CYC:HMA2	1.76	0.51
12:H3:202:CYC:HMA2	12:H3:202:CYC:HB	1.76	0.51
5:N3:29:HIS:HD2	5:N3:36:THR:HG23	1.76	0.51
2:O3:2:LYS:HE2	2:Y3:22:THR:HB	1.93	0.51
3:B1:120:LEU:HD13	12:B1:202:CYC:HBD1	1.93	0.51
3:L4:71:GLY:HA2	11:aA:82:GLN:CD	2.36	0.51
4:M4:29:PRO:CB	11:aA:225:VAL:C	2.48	0.51
4:M4:140:ARG:HH12	4:M4:144:ARG:HH11	1.48	0.51
8:C5:37:LEU:CD2	1:D5:27:LEU:HD13	2.25	0.51
8:E5:102:THR:N	8:E5:103:PRO:CD	2.74	0.51
8:G5:126:VAL:N	12:G5:201:CYC:HMC1	2.26	0.51
8:I5:29:PHE:CE2	1:J5:5:ILE:CD1	2.93	0.51
8:I5:35:ARG:NH2	8:I5:145:ASP:OD1	2.42	0.51
1:d5:59:ALA:O	1:d5:60:LEU:HD23	2.11	0.51
12:R5:201:CYC:HB	12:R5:201:CYC:HMA3	1.73	0.51
1:b5:59:ALA:O	1:b5:60:LEU:HD23	2.11	0.51
6:M6:69:ALA:HB2	3:H6:14:LEU:HG	1.93	0.51
10:j5:367:ARG:NH1	10:j5:410:GLU:OE2	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1136:ILE:O	10:j5:1136:ILE:HG22	2.09	0.51
10:k5:43:LEU:N	10:k5:43:LEU:HD22	2.26	0.51
10:k5:1119:LEU:HD22	1:n7:87:TYR:CZ	2.46	0.51
12:D1:202:CYC:HMA2	12:D1:202:CYC:HB	1.76	0.51
8:g7:90:ARG:NH2	1:h7:16:GLY:HA2	2.26	0.51
1:h7:75:THR:CG2	8:i7:115:MET:CE	2.81	0.51
12:b7:201:CYC:HB	12:b7:201:CYC:HMA3	1.73	0.51
8:m7:47:ARG:HD3	1:n7:18:TYR:CE1	2.46	0.51
8:m7:57:GLN:O	8:m7:61:ILE:HD13	2.11	0.51
1:t7:59:ALA:O	1:t7:60:LEU:HD23	2.11	0.51
8:u7:116:TYR:HB3	8:u7:123:ILE:HG12	1.91	0.51
1:v7:59:ALA:O	1:v7:60:LEU:HD23	2.12	0.51
3:L9:45:THR:HG23	2:K9:18:PHE:CB	2.40	0.51
4:M9:185:ALA:HA	12:V9:201:CYC:HBA2	1.93	0.51
2:Q9:138:VAL:O	2:Q9:138:VAL:HG12	2.11	0.51
3:D9:68:ARG:NH2	3:X9:68:ARG:HH22	2.09	0.51
11:a9:25:GLU:HB3	11:a9:26:PRO:HD3	1.93	0.51
11:a9:95:ILE:HD13	11:a9:237:PHE:CE2	2.45	0.51
11:a9:338:VAL:CG2	11:a9:340:PRO:CD	2.78	0.51
11:a9:445:THR:HB	11:a9:542:ALA:O	2.11	0.51
11:a9:802:ARG:O	11:a9:804:ARG:N	2.43	0.51
11:aA:93:LEU:CD1	11:aA:93:LEU:H	2.24	0.51
4:M1:16:LYS:HB2	4:M1:46:VAL:HG22	1.93	0.51
12:F2:201:CYC:HMA2	12:F2:201:CYC:HB	1.75	0.51
4:MA:93:LEU:HD21	4:MA:102:VAL:HG22	1.92	0.50
4:MA:170:PHE:HD1	4:MA:174:LEU:HD12	1.77	0.50
5:NA:29:HIS:HD2	5:NA:36:THR:HG23	1.76	0.50
2:G2:138:VAL:O	2:G2:138:VAL:HG12	2.11	0.50
6:M2:283:VAL:HG12	6:M2:284:SER:N	2.25	0.50
3:D4:150:ARG:HH11	2:C1:140:SER:HB3	1.75	0.50
2:N4:31:PHE:CG	3:O4:34:SER:HB2	2.45	0.50
8:K5:79:ALA:C	8:K5:81:CYS:N	2.68	0.50
8:K5:154:ASP:HB3	1:V5:46:SER:HB3	1.93	0.50
3:Y4:88:ILE:HG13	3:Y4:89:ILE:N	2.26	0.50
5:Z4:39:PRO:HG3	12:Z4:301:CYC:H3C	1.92	0.50
12:J5:201:CYC:HB	12:J5:201:CYC:HMA3	1.73	0.50
1:R5:86:ASP:CG	1:R5:90:ARG:NE	2.67	0.50
1:X5:59:ALA:O	1:X5:60:LEU:HD23	2.11	0.50
1:Z5:59:ALA:O	1:Z5:60:LEU:HD23	2.11	0.50
10:j5:56:ILE:CG2	10:j5:57:VAL:H	2.22	0.50
10:j5:175:ASP:OD1	10:j5:175:ASP:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:275:THR:HG23	10:j5:286:VAL:CG1	2.32	0.50
10:j5:1124:TYR:CG	12:j5:1202:CYC:HAA1	2.46	0.50
10:k5:614:ARG:HG2	10:k5:614:ARG:NH1	2.21	0.50
8:O7:29:PHE:CZ	8:O7:98:ALA:C	2.76	0.50
8:O7:61:ILE:HG22	8:O7:62:ARG:HG2	1.93	0.50
1:B7:136:VAL:HA	11:a9:563:PHE:CE1	2.46	0.50
8:G7:61:ILE:HG22	8:G7:62:ARG:HG2	1.93	0.50
8:g7:61:ILE:O	11:aA:336:ILE:CB	2.59	0.50
8:i7:126:VAL:O	8:i7:126:VAL:HG12	2.11	0.50
1:j7:76:ARG:N	8:e7:110:ILE:O	2.43	0.50
1:T7:110:ASN:ND2	9:w7:57:PHE:CD2	2.79	0.50
1:V7:59:ALA:O	1:V7:60:LEU:HD23	2.11	0.50
1:Z7:59:ALA:O	1:Z7:60:LEU:HD23	2.11	0.50
8:c7:49:ARG:NH2	8:c7:140:LEU:HD21	2.24	0.50
8:m7:29:PHE:HE1	8:m7:99:GLY:N	2.08	0.50
8:o7:116:TYR:HB3	8:o7:123:ILE:HG12	1.91	0.50
8:q7:75:GLU:CA	11:aA:53:VAL:CG1	2.88	0.50
2:X8:15:GLN:HG2	4:M8:211:GLN:HE22	1.76	0.50
3:F8:84:ARG:CG	11:a9:139:ILE:HG21	2.41	0.50
3:H8:81:ALA:HA	3:H8:84:ARG:HH21	1.74	0.50
4:M9:16:LYS:HB2	4:M9:46:VAL:HG22	1.93	0.50
5:N9:21:ALA:HA	5:N9:42:SER:O	2.11	0.50
5:N9:29:HIS:HD2	5:N9:36:THR:HG23	1.76	0.50
2:E9:138:VAL:O	2:E9:138:VAL:HG12	2.11	0.50
11:a9:95:ILE:HD13	11:a9:237:PHE:CD1	2.46	0.50
11:a9:403:THR:HB	11:a9:441:ARG:HH21	1.76	0.50
11:a9:586:LEU:N	11:a9:586:LEU:CD2	2.73	0.50
11:aA:25:GLU:HB3	11:aA:26:PRO:HD3	1.93	0.50
11:aA:358:PRO:HG2	11:aA:358:PRO:O	2.11	0.50
11:aA:365:LYS:NZ	11:aA:365:LYS:CB	2.72	0.50
11:aA:667:THR:CG2	11:aA:800:THR:HG22	2.40	0.50
4:M1:232:VAL:HG21	3:V1:113:LEU:HA	1.91	0.50
2:U1:138:VAL:HG12	2:U1:138:VAL:O	2.11	0.50
1:Z:114:GLU:OE1	10:j5:6:THR:HB	2.12	0.50
2:EA:138:VAL:HG12	2:EA:138:VAL:O	2.11	0.50
12:FA:301:CYC:HB	12:FA:301:CYC:HMA2	1.76	0.50
3:JA:88:ILE:HD13	11:aA:512:TYR:CE1	2.25	0.50
4:MA:22:SER:HB3	4:MA:23:PRO:CD	2.41	0.50
5:NA:39:PRO:CB	3:PA:116:THR:OG1	2.60	0.50
5:NA:57:MET:HE2	5:NA:67:ILE:HG13	1.92	0.50
12:TA:301:CYC:HB	12:TA:301:CYC:HMA2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J2:87:GLU:OE1	6:M2:189:HIS:NE2	2.31	0.50
6:M2:205:GLU:OE1	6:M2:219:ARG:NH2	2.42	0.50
2:A3:65:TYR:O	2:A3:71:GLN:CG	2.54	0.50
2:A4:60:TYR:CB	2:A4:67:THR:CG2	2.83	0.50
3:B4:113:LEU:HD13	4:M4:60:LYS:CE	2.37	0.50
4:M3:16:LYS:HB2	4:M3:46:VAL:HG22	1.93	0.50
3:B1:85:ASP:OD1	12:B1:202:CYC:NA	2.44	0.50
2:V4:138:VAL:O	2:V4:138:VAL:HG12	2.11	0.50
3:F4:104:VAL:O	3:F4:107:ASP:OD1	2.28	0.50
3:H4:108:ARG:NH2	11:aA:97:ALA:HB2	2.26	0.50
4:M4:20:THR:HG23	4:M4:67:LEU:HD11	1.92	0.50
4:M4:27:HIS:CG	4:M4:34:ASP:HA	2.43	0.50
4:M4:215:GLU:HB3	5:Z4:28:HIS:N	2.26	0.50
8:M5:90:ARG:HA	1:N5:18:TYR:CZ	2.47	0.50
1:D5:59:ALA:O	1:D5:60:LEU:HD23	2.11	0.50
8:G5:61:ILE:HG13	8:o7:68:PRO:CG	2.39	0.50
8:I5:29:PHE:HE1	8:I5:99:GLY:N	2.08	0.50
8:e5:4:LEU:HD23	8:e5:26:ILE:HD13	1.91	0.50
1:P5:114:GLU:HB3	10:k5:496:GLU:CG	2.39	0.50
1:b5:18:TYR:CE2	10:k5:165:ARG:CG	2.94	0.50
6:M6:75:LYS:HZ3	3:H6:2:GLN:NE2	2.08	0.50
10:j5:59:LYS:NZ	10:j5:213:LEU:O	2.45	0.50
10:j5:77:VAL:CG2	10:j5:141:GLU:CB	2.89	0.50
10:j5:190:LEU:O	10:j5:194:CYS:SG	2.62	0.50
10:j5:194:CYS:CB	12:j5:1201:CYC:HAC1	2.40	0.50
10:j5:867:VAL:O	9:w7:43:ARG:NH2	2.23	0.50
10:j5:1125:ARG:HH22	1:t7:114:GLU:HB3	1.74	0.50
10:k5:549:LYS:C	10:k5:549:LYS:CD	2.84	0.50
10:k5:773:VAL:O	10:k5:773:VAL:HG12	2.12	0.50
10:k5:929:PRO:CG	1:D7:147:LYS:HG2	2.39	0.50
10:k5:1008:PHE:CG	12:p7:201:CYC:OB	2.64	0.50
12:H6:201:CYC:HMA2	12:H6:201:CYC:HB	1.76	0.50
1:D7:59:ALA:O	1:D7:60:LEU:HD23	2.11	0.50
8:E7:17:TYR:CE2	1:F7:90:ARG:HA	2.46	0.50
1:N7:59:ALA:O	1:N7:60:LEU:HD23	2.11	0.50
1:V7:76:ARG:HD3	8:W7:110:ILE:HD11	1.93	0.50
8:W7:17:TYR:CE2	1:X7:90:ARG:HA	2.46	0.50
12:b7:201:CYC:OB	9:x7:23:LEU:HB2	2.11	0.50
8:c7:26:ILE:O	8:c7:30:VAL:HG13	2.10	0.50
8:c7:43:LEU:HD13	8:c7:141:LEU:HD21	1.94	0.50
2:E1:138:VAL:HG12	2:E1:138:VAL:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B8:81:ALA:O	12:B8:202:CYC:HMD3	2.10	0.50
3:B8:113:LEU:HB2	4:M8:60:LYS:CE	2.35	0.50
8:s7:57:GLN:O	8:s7:61:ILE:HD13	2.12	0.50
8:u7:56:ASP:N	8:u7:56:ASP:OD1	2.37	0.50
8:u7:80:LEU:HD12	12:u7:201:CYC:HAD2	1.90	0.50
9:w7:15:LYS:O	9:w7:15:LYS:HG3	2.11	0.50
4:M8:96:LYS:CE	3:Q8:113:LEU:HD22	2.41	0.50
3:L9:51:ILE:HG21	3:L9:90:LEU:HD11	1.86	0.50
4:M9:74:LEU:O	4:M9:77:LEU:CD1	2.59	0.50
5:N9:37:HIS:C	5:N9:37:HIS:CD2	2.90	0.50
5:N9:54:LEU:CD1	12:T9:301:CYC:C1B	2.89	0.50
5:Z8:29:HIS:CG	5:Z8:31:TRP:CD1	2.99	0.50
5:Z8:29:HIS:NE2	5:Z8:33:GLY:O	2.44	0.50
5:Z8:37:HIS:HB2	12:Z8:301:CYC:C4B	2.41	0.50
11:a9:34:ILE:O	11:a9:34:ILE:HG22	2.09	0.50
11:a9:252:ARG:NH2	11:a9:291:TYR:HB3	2.26	0.50
11:a9:588:VAL:CA	11:a9:590:PRO:HD2	2.42	0.50
11:a9:802:ARG:CG	11:a9:802:ARG:NH1	2.72	0.50
11:aA:586:LEU:N	11:aA:586:LEU:CD2	2.73	0.50
11:aA:798:SER:CB	12:aA:901:CYC:HMA1	2.30	0.50
4:M1:20:THR:HG23	4:M1:67:LEU:HD11	1.92	0.50
4:M1:269:SER:CA	3:V1:111:ASN:HD22	2.24	0.50
2:YA:138:VAL:HG12	2:YA:138:VAL:O	2.11	0.50
3:P1:115:GLU:HB2	5:N1:3:VAL:CG1	2.36	0.50
2:A1:138:VAL:HG12	2:A1:138:VAL:O	2.11	0.50
2:G3:107:ASP:O	3:L3:77:ARG:HD2	2.11	0.50
2:A3:138:VAL:HG12	2:A3:138:VAL:O	2.11	0.50
3:B3:115:GLU:OE2	4:M3:78:GLY:CA	2.59	0.50
3:B4:85:ASP:H	12:B4:202:CYC:CAC	2.22	0.50
5:N3:37:HIS:CD2	5:N3:37:HIS:C	2.90	0.50
3:F4:108:ARG:NH2	4:M4:9:GLN:HE21	2.07	0.50
4:M4:22:SER:HB3	4:M4:23:PRO:CD	2.41	0.50
4:M4:226:SER:CB	3:Y4:85:ASP:N	2.75	0.50
3:Q4:105:LEU:HD12	3:Q4:105:LEU:N	2.27	0.50
8:O5:61:ILE:HG22	8:O5:62:ARG:HG2	1.93	0.50
3:Y4:113:LEU:O	3:Y4:114:LYS:C	2.54	0.50
8:C5:94:TYR:HB3	1:D5:9:ILE:HD13	1.94	0.50
8:I5:94:TYR:HB3	1:J5:9:ILE:HD13	1.93	0.50
12:V5:201:CYC:HB	12:V5:201:CYC:HMA3	1.73	0.50
12:Z5:201:CYC:HBB2	10:k5:353:ASN:HB2	1.93	0.50
10:j5:19:THR:HB	10:j5:173:ALA:HB1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:182:ASN:N	10:j5:182:ASN:ND2	2.60	0.50
10:j5:216:ASP:HA	10:j5:220:SER:HB2	1.94	0.50
10:j5:1150:TYR:CE1	11:aA:38:VAL:CG2	2.66	0.50
10:k5:1024:LYS:CD	10:k5:1038:ARG:NH1	2.68	0.50
2:A6:138:VAL:HG12	2:A6:138:VAL:O	2.11	0.50
2:I6:138:VAL:HG12	2:I6:138:VAL:O	2.11	0.50
1:H7:59:ALA:O	1:H7:60:LEU:HD23	2.11	0.50
8:K7:4:LEU:HD23	8:K7:26:ILE:CD1	2.38	0.50
8:K7:126:VAL:HG22	12:K7:201:CYC:H3C	1.91	0.50
12:N7:201:CYC:HMD1	12:N7:201:CYC:NC	2.09	0.50
12:T7:201:CYC:HB	12:T7:201:CYC:HMA3	1.73	0.50
1:t7:75:THR:OG1	8:u7:110:ILE:O	2.28	0.50
8:u7:23:LEU:C	1:v7:38:VAL:HG21	2.36	0.50
3:F8:84:ARG:HH22	11:a9:143:SER:HB3	1.75	0.50
3:F8:112:GLY:HA3	4:M8:4:LEU:O	2.11	0.50
3:L8:68:ARG:HB2	11:a9:82:GLN:CA	2.39	0.50
4:M8:140:ARG:NH1	4:M8:204:ILE:O	2.42	0.50
2:E9:152:ALA:HB1	2:I9:21:ASN:CG	2.36	0.50
3:J9:119:ALA:C	11:a9:365:LYS:NZ	2.61	0.50
11:aA:490:ILE:N	11:aA:490:ILE:HD13	2.26	0.50
11:aA:776:TYR:CB	12:H1:201:CYC:HBA1	2.41	0.50
12:aA:902:CYC:CAB	3:L1:88:ILE:HG21	2.41	0.50
4:M1:259:ARG:HG3	4:M1:259:ARG:HH21	1.75	0.50
1:A:16:GLY:C	8:a5:90:ARG:CZ	2.85	0.50
1:A:78:TYR:CE2	12:k5:1201:CYC:HAA1	2.46	0.50
2:AA:25:GLN:HG2	2:KA:33:ARG:CG	2.38	0.50
3:JA:68:ARG:HB3	11:aA:353:ALA:HB2	1.93	0.50
4:MA:264:LYS:N	3:VA:119:ALA:CB	2.74	0.50
5:NA:1:MET:O	5:NA:3:VAL:N	2.43	0.50
2:S1:138:VAL:O	2:S1:138:VAL:HG12	2.11	0.50
12:J3:202:CYC:HMA2	12:J3:202:CYC:HB	1.76	0.50
12:H2:201:CYC:HBB3	6:M2:243:ALA:HA	1.94	0.50
12:D3:202:CYC:HMA2	12:D3:202:CYC:HB	1.76	0.50
2:Q3:138:VAL:HG12	2:Q3:138:VAL:O	2.11	0.50
12:V3:201:CYC:HB	12:V3:201:CYC:HMA2	1.76	0.50
12:H4:201:CYC:HMA2	12:H4:201:CYC:HB	1.76	0.50
3:Y4:101:ASP:C	3:Y4:103:SER:H	2.19	0.50
12:B5:201:CYC:CBB	9:z5:21:ARG:CA	2.81	0.50
8:S5:61:ILE:HG22	8:S5:62:ARG:HG2	1.93	0.50
8:S5:90:ARG:N	1:T5:18:TYR:OH	2.44	0.50
8:U5:82:LEU:HD12	6:M6:34:ARG:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z5:110:ASN:O	10:k5:352:ILE:HD11	2.11	0.50
9:z5:6:LYS:HZ1	9:z5:29:THR:HG21	1.75	0.50
10:j5:190:LEU:HD21	12:j5:1201:CYC:C4D	2.41	0.50
10:j5:213:LEU:HD12	10:j5:213:LEU:N	2.26	0.50
10:j5:249:SER:HB2	10:j5:254:PRO:O	2.10	0.50
10:j5:284:PRO:HD2	10:j5:326:GLY:C	2.36	0.50
10:j5:802:VAL:O	10:j5:802:VAL:HG12	2.10	0.50
10:j5:1006:ASP:OD1	10:j5:1065:HIS:CD2	2.64	0.50
10:j5:1018:LEU:HD11	10:j5:1035:PHE:HZ	1.39	0.50
10:j5:1024:LYS:CD	10:j5:1038:ARG:NH1	2.68	0.50
10:k5:803:LYS:HZ2	9:z7:43:ARG:NH1	2.06	0.50
10:k5:1141:SER:HB2	8:k7:106:GLU:CD	2.36	0.50
8:O7:21:GLY:O	8:O7:23:LEU:N	2.44	0.50
8:g7:10:ASN:HD21	8:u7:10:ASN:HD22	1.58	0.50
8:g7:63:PRO:CG	11:aA:333:GLN:O	2.59	0.50
8:g7:109:ILE:HD13	8:g7:159:ALA:HB1	1.91	0.50
1:h7:52:ILE:HG22	1:h7:52:ILE:O	2.11	0.50
1:j7:59:ALA:O	1:j7:60:LEU:HD23	2.11	0.50
8:c7:96:ILE:CG1	8:c7:152:TYR:CE1	2.81	0.50
1:p7:59:ALA:O	1:p7:60:LEU:HD23	2.11	0.50
8:s7:47:ARG:HD3	1:t7:18:TYR:CE1	2.46	0.50
9:w7:39:THR:O	9:w7:39:THR:OG1	2.22	0.50
9:y7:11:ILE:CD1	9:y7:28:PHE:HE1	2.25	0.50
2:G8:138:VAL:HG12	2:G8:138:VAL:O	2.11	0.50
3:H8:119:ALA:C	11:a9:266:ASN:ND2	2.69	0.50
3:L8:68:ARG:HD2	11:a9:82:GLN:N	1.90	0.50
12:M8:301:CYC:OC	3:Y8:72:ASN:CG	2.55	0.50
2:N8:10:ALA:O	5:Z8:62:ARG:CZ	2.59	0.50
2:Y9:138:VAL:O	2:Y9:138:VAL:HG12	2.11	0.50
2:G1:107:ASP:CG	3:L1:77:ARG:NH2	2.68	0.50
11:a9:632:ILE:N	11:a9:632:ILE:HD12	2.27	0.50
4:M1:93:LEU:HD21	4:M1:102:VAL:HG22	1.92	0.50
1:A:18:TYR:OH	8:a5:90:ARG:N	2.44	0.50
12:Z:201:CYC:HMD1	12:Z:201:CYC:NC	2.10	0.50
2:IA:19:LEU:HD13	3:JA:41:VAL:HG11	1.92	0.50
2:KA:24:LEU:CB	12:LA:201:CYC:HAB2	2.34	0.50
12:LA:202:CYC:HMA2	12:LA:202:CYC:HB	1.76	0.50
4:MA:188:LEU:HG	3:VA:84:ARG:NE	2.26	0.50
12:XA:201:CYC:HMA2	12:XA:201:CYC:HB	1.76	0.50
2:G3:138:VAL:O	2:G3:138:VAL:HG12	2.11	0.50
12:J3:202:CYC:CGD	11:a9:802:ARG:NE	2.69	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H2:14:LEU:HG	6:M2:69:ALA:HB2	1.93	0.50
12:H2:201:CYC:HMA1	6:M2:245:SER:OG	2.11	0.50
12:B3:202:CYC:HMA2	12:B3:202:CYC:HB	1.76	0.50
3:B4:86:MET:H	12:B4:202:CYC:CAC	2.23	0.50
4:M3:170:PHE:HD1	4:M3:174:LEU:HD12	1.77	0.50
4:M3:268:ARG:O	3:V3:111:ASN:ND2	2.44	0.50
5:N3:1:MET:O	5:N3:3:VAL:N	2.44	0.50
3:B1:115:GLU:OE2	4:M1:78:GLY:CA	2.59	0.50
2:E4:138:VAL:HG12	2:E4:138:VAL:O	2.11	0.50
2:N4:115:GLU:OE1	5:Z4:33:GLY:N	2.45	0.50
8:K5:101:VAL:C	8:K5:103:PRO:HD2	2.37	0.50
1:L5:75:THR:HG22	8:G5:115:MET:SD	2.51	0.50
1:B5:13:ASP:OD2	10:k5:556:GLY:HA3	2.12	0.50
8:E5:116:TYR:HB3	8:E5:123:ILE:HG12	1.93	0.50
8:G5:6:LYS:CE	8:S5:21:GLY:HA3	2.42	0.50
8:G5:69:GLY:HA3	8:U5:64:ASP:OD1	2.12	0.50
1:R5:59:ALA:O	1:R5:60:LEU:HD23	2.11	0.50
8:U5:29:PHE:CD1	8:U5:99:GLY:HA3	2.43	0.50
8:U5:57:GLN:O	8:U5:61:ILE:HD13	2.12	0.50
6:M6:57:GLU:HA	8:c7:76:LYS:NZ	2.26	0.50
9:i5:56:LEU:N	9:i5:56:LEU:CD1	2.73	0.50
10:j5:773:VAL:HG12	10:j5:773:VAL:O	2.12	0.50
10:j5:937:GLU:O	10:j5:937:GLU:HG3	2.00	0.50
10:j5:1008:PHE:CD1	12:v7:201:CYC:C4B	2.94	0.50
10:j5:1023:SER:O	10:j5:1027:ASN:HB2	2.12	0.50
10:k5:298:ARG:HH11	10:k5:298:ARG:HA	1.76	0.50
10:k5:328:ILE:HG21	10:k5:336:ARG:CZ	2.42	0.50
10:k5:450:ARG:HG3	10:k5:494:PRO:O	2.10	0.50
10:k5:586:LEU:HD12	10:k5:607:LEU:HD23	1.77	0.50
10:k5:930:LEU:C	1:D7:33:THR:CG2	2.53	0.50
10:k5:964:GLY:HA2	1:n7:69:GLY:CA	2.35	0.50
10:k5:1118:THR:CG2	12:k5:1204:CYC:CMA	2.88	0.50
8:M7:106:GLU:OE2	9:z7:68:GLY:HA3	2.10	0.50
1:T7:59:ALA:O	1:T7:60:LEU:HD23	2.11	0.50
8:Y7:61:ILE:HG22	8:Y7:62:ARG:HG2	1.93	0.50
1:t7:75:THR:HB	8:u7:111:GLY:O	2.11	0.50
9:x7:11:ILE:CD1	9:x7:28:PHE:HE1	2.25	0.50
12:J8:201:CYC:HMA1	11:a9:176:ASN:ND2	2.20	0.50
4:M8:26:SER:CB	11:a9:228:GLU:HG3	2.42	0.50
3:L9:41:VAL:HG21	3:L9:98:LEU:HD13	1.93	0.50
3:L9:83:LEU:CD1	2:G9:119:THR:CG2	2.86	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L9:202:CYC:HB	12:L9:202:CYC:HMA2	1.76	0.50
2:G9:138:VAL:HG12	2:G9:138:VAL:O	2.11	0.50
11:a9:90:GLN:C	11:a9:92:LYS:N	2.70	0.50
4:M1:232:VAL:HG21	3:V1:113:LEU:HB2	1.94	0.50
2:OA:2:LYS:HE2	2:YA:22:THR:HB	1.93	0.50
2:UA:138:VAL:HG12	2:UA:138:VAL:O	2.11	0.50
2:Q1:138:VAL:HG12	2:Q1:138:VAL:O	2.11	0.50
3:B4:109:CYS:HA	12:B4:202:CYC:HMB2	1.93	0.50
2:Y3:138:VAL:HG12	2:Y3:138:VAL:O	2.11	0.50
3:F4:113:LEU:H	4:M4:5:THR:CB	2.23	0.50
2:I4:14:SER:HA	11:aA:170:PHE:CE2	2.45	0.50
3:L4:68:ARG:CG	11:aA:82:GLN:N	2.72	0.50
4:M4:170:PHE:HD1	4:M4:174:LEU:HD12	1.77	0.50
12:M4:301:CYC:CMD	3:Y4:78:ARG:HG2	2.41	0.50
1:N5:87:TYR:CE2	10:k5:483:PHE:HE2	2.29	0.50
8:E5:131:ARG:CZ	8:E5:157:VAL:HG11	2.42	0.50
1:f5:59:ALA:O	1:f5:60:LEU:HD23	2.11	0.50
8:S5:90:ARG:N	1:T5:18:TYR:CZ	2.80	0.50
1:V5:114:GLU:CD	10:j5:496:GLU:CB	2.84	0.50
1:X5:86:ASP:O	1:X5:90:ARG:HG3	2.12	0.50
8:Y5:65:VAL:CG2	8:Y5:66:VAL:N	2.75	0.50
8:a5:61:ILE:HG22	8:a5:62:ARG:HG2	1.93	0.50
10:j5:43:LEU:N	10:j5:43:LEU:HD22	2.26	0.50
10:j5:357:LEU:HD23	10:j5:401:LEU:HD13	1.93	0.50
10:j5:549:LYS:HG2	10:j5:551:MET:CG	2.42	0.50
10:j5:965:GLN:C	1:t7:69:GLY:HA2	2.37	0.50
10:j5:1051:GLU:HB3	10:j5:1052:PRO:HD3	1.93	0.50
10:j5:1118:THR:HG21	12:j5:1202:CYC:O2A	2.07	0.50
10:k5:59:LYS:NZ	10:k5:213:LEU:O	2.45	0.50
10:k5:182:ASN:HB3	12:k5:1201:CYC:HAB2	1.93	0.50
10:k5:277:ILE:CG2	10:k5:284:PRO:CA	2.87	0.50
10:k5:283:ARG:O	10:k5:284:PRO:C	2.53	0.50
10:k5:825:ASN:CB	12:B7:201:CYC:OB	2.51	0.50
10:k5:1017:ARG:O	10:k5:1018:LEU:HG	2.12	0.50
12:k5:1203:CYC:HMD1	12:k5:1203:CYC:NC	2.09	0.50
12:H6:201:CYC:HB	12:H6:201:CYC:CMA	2.25	0.50
8:E7:4:LEU:HD21	8:E7:26:ILE:HD13	1.93	0.50
8:G7:23:LEU:HD22	1:H7:38:VAL:HG13	1.94	0.50
8:I7:57:GLN:O	8:I7:61:ILE:HD13	2.12	0.50
8:I7:61:ILE:HG22	8:I7:62:ARG:HG2	1.93	0.50
8:M7:23:LEU:HD22	1:N7:38:VAL:HG13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c7:12:ASP:CA	1:d7:94:TYR:CE2	2.94	0.50
8:o7:23:LEU:C	1:p7:38:VAL:HG21	2.36	0.50
8:q7:57:GLN:O	8:q7:61:ILE:HD13	2.12	0.50
4:M8:96:LYS:CD	3:Q8:113:LEU:HD22	2.41	0.50
4:M8:170:PHE:HD1	4:M8:174:LEU:HD12	1.77	0.50
4:M8:188:LEU:HD12	4:M8:188:LEU:C	2.35	0.50
4:M8:231:THR:H	12:M8:301:CYC:HBB3	0.68	0.50
4:M8:232:VAL:CG2	3:Y8:113:LEU:HD21	2.41	0.50
12:N8:201:CYC:C2B	3:Q8:76:ASN:HD21	2.24	0.50
3:Q8:122:THR:HG23	12:Z8:301:CYC:C1C	2.41	0.50
4:M9:22:SER:HB3	4:M9:23:PRO:CD	2.41	0.50
4:M9:51:ARG:HB3	4:M9:51:ARG:NH1	2.23	0.50
5:N9:1:MET:HB2	5:N9:3:VAL:HG23	1.90	0.50
2:O9:65:TYR:O	2:O9:71:GLN:CG	2.54	0.50
5:Z8:21:ALA:HA	5:Z8:42:SER:O	2.11	0.50
11:a9:89:ALA:CA	11:a9:92:LYS:HZ2	2.25	0.50
11:aA:745:GLY:HA3	2:K1:15:GLN:C	2.24	0.50
3:H1:78:ARG:CA	12:H1:201:CYC:CMD	2.90	0.50
12:H1:201:CYC:HMA2	12:H1:201:CYC:HB	1.76	0.50
4:M1:5:THR:C	4:M1:6:THR:HG1	2.06	0.50
4:M1:252:LEU:HD12	12:X1:201:CYC:O1D	2.06	0.50
1:A:127:VAL:HG11	1:R5:15:GLN:OE1	2.12	0.50
1:Z:110:ASN:OD1	10:j5:462:TYR:CD1	2.53	0.50
3:FA:150:ARG:HD2	3:F9:150:ARG:HD3	1.93	0.50
3:HA:119:ALA:CA	8:S7:49:ARG:NH1	2.50	0.50
3:JA:19:LEU:HD13	3:JA:24:LEU:CD2	2.41	0.50
2:KA:17:ARG:NH1	2:KA:17:ARG:CB	2.73	0.50
2:KA:25:GLN:O	2:KA:26:ALA:O	2.28	0.50
5:NA:53:LEU:C	12:TA:301:CYC:HBA1	2.29	0.50
2:QA:116:VAL:HG21	3:TA:76:ASN:O	2.12	0.50
2:SA:42:ARG:HD2	2:X4:69:PRO:CB	2.42	0.50
3:J3:84:ARG:CZ	11:a9:669:ILE:C	2.57	0.50
3:J3:120:LEU:CD2	11:a9:802:ARG:HB2	2.42	0.50
12:H2:201:CYC:HMA2	12:H2:201:CYC:HB	1.76	0.50
12:J2:202:CYC:HB	12:J2:202:CYC:CMA	2.25	0.50
2:C3:138:VAL:O	2:C3:138:VAL:HG12	2.11	0.50
3:B4:88:ILE:HG21	12:B4:202:CYC:HMB1	1.93	0.50
12:U4:201:CYC:HB	12:U4:201:CYC:CMA	2.25	0.50
3:J4:125:ARG:NH1	2:C2:69:PRO:CG	2.69	0.50
12:L4:202:CYC:HMA2	12:L4:202:CYC:HB	1.76	0.50
12:O4:201:CYC:CGA	5:Z4:50:LEU:HD13	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q4:80:ALA:HB1	5:Z4:33:GLY:HA3	1.94	0.50
3:Q4:103:SER:C	3:Q4:105:LEU:N	2.67	0.50
8:M5:90:ARG:N	1:N5:18:TYR:CZ	2.80	0.50
8:C5:90:ARG:HD3	1:D5:18:TYR:CD1	2.47	0.50
1:H5:10:ASN:OD1	10:j5:557:VAL:HG22	2.11	0.50
8:c5:120:GLN:CD	1:f5:53:LYS:HZ2	2.20	0.50
8:S5:41:GLN:CD	1:D7:143:PRO:CD	2.85	0.50
8:S5:57:GLN:O	8:S5:61:ILE:HD13	2.12	0.50
8:U5:95:GLY:N	8:U5:104:ILE:HD11	2.27	0.50
8:W5:57:GLN:O	8:W5:61:ILE:HD13	2.12	0.50
9:z5:6:LYS:HG2	9:z5:55:LYS:CB	2.39	0.50
10:j5:238:ARG:O	10:j5:238:ARG:HD2	2.11	0.50
10:j5:1034:GLU:OE2	10:j5:1034:GLU:HA	2.09	0.50
10:k5:190:LEU:CA	10:k5:194:CYS:SG	3.00	0.50
10:k5:540:LEU:HD11	10:k5:544:VAL:HG22	1.93	0.50
10:k5:966:SER:CA	1:p7:14:VAL:HG13	2.14	0.50
10:k5:990:ARG:CZ	10:k5:1026:LYS:NZ	2.67	0.50
10:k5:1025:LEU:HD21	10:k5:1035:PHE:CA	2.33	0.50
10:k5:1146:THR:CA	1:p7:77:ARG:NH2	2.64	0.50
10:k5:1150:TYR:HE1	11:a9:38:VAL:CG1	2.24	0.50
3:F6:127:VAL:HA	12:F6:201:CYC:HMC2	1.93	0.50
8:S7:64:ASP:OD2	8:I7:69:GLY:O	2.30	0.50
8:C7:15:ALA:HA	1:D7:90:ARG:NH1	2.27	0.50
8:I7:15:ALA:HA	1:J7:90:ARG:NH1	2.27	0.50
8:i7:50:ILE:HG12	8:i7:137:ALA:CB	2.41	0.50
8:e7:61:ILE:HG22	8:e7:62:ARG:HG2	1.93	0.50
12:D8:202:CYC:HMA2	12:D8:202:CYC:HB	1.76	0.50
8:s7:15:ALA:HA	1:t7:90:ARG:NH1	2.27	0.50
8:s7:61:ILE:HG22	8:s7:62:ARG:HG2	1.93	0.50
3:F8:112:GLY:C	4:M8:5:THR:HA	2.36	0.50
3:O8:111:ASN:O	5:Z8:67:ILE:HB	2.12	0.50
12:O8:201:CYC:HMA2	12:O8:201:CYC:HB	1.76	0.50
4:M9:170:PHE:HD1	4:M9:174:LEU:HD12	1.76	0.50
4:M9:205:ASP:OD2	5:N9:52:ARG:CZ	2.59	0.50
3:H9:117:TYR:CE1	12:H9:202:CYC:C4A	2.94	0.50
2:G1:107:ASP:N	3:L1:77:ARG:NH2	2.60	0.50
2:G1:138:VAL:O	2:G1:138:VAL:HG12	2.11	0.50
11:a9:581:ARG:C	11:a9:581:ARG:CD	2.85	0.50
11:aA:595:ARG:CG	11:aA:596:THR:O	2.55	0.50
11:aA:731:GLN:NE2	12:aA:902:CYC:HAA1	2.27	0.50
11:aA:742:GLN:HB3	3:L1:88:ILE:HD11	1.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M1:245:ASP:OD2	3:X1:108:ARG:HB3	2.11	0.50
4:M1:252:LEU:CD1	3:X1:77:ARG:NH1	2.75	0.50
5:NA:21:ALA:HA	5:NA:42:SER:O	2.11	0.50
2:QA:145:GLN:HG3	12:VA:202:CYC:HMA3	1.93	0.50
2:O1:34:ALA:HB1	3:P1:31:VAL:HG21	1.92	0.50
2:K3:13:ASP:CG	11:a9:741:TYR:OH	2.51	0.50
6:M2:127:SER:HA	12:F2:201:CYC:CGA	2.38	0.50
3:L3:88:ILE:HG21	12:L3:202:CYC:CAB	2.41	0.50
4:M3:245:ASP:OD2	3:X3:108:ARG:HB3	2.11	0.50
2:O3:138:VAL:O	2:O3:138:VAL:HG12	2.11	0.50
4:M4:16:LYS:HB2	4:M4:46:VAL:HG22	1.93	0.50
4:M4:51:ARG:HB3	4:M4:51:ARG:NH1	2.23	0.50
4:M4:232:VAL:CA	12:M4:301:CYC:HBB3	2.39	0.50
2:P4:138:VAL:HG12	2:P4:138:VAL:O	2.11	0.50
3:Q4:52:ILE:CD1	3:Q4:87:GLU:HA	2.41	0.50
8:M5:90:ARG:N	1:N5:18:TYR:OH	2.44	0.50
12:B5:201:CYC:HAA1	9:z5:26:THR:HG21	1.89	0.50
1:F5:59:ALA:O	1:F5:60:LEU:HD23	2.11	0.50
8:G5:65:VAL:CG2	8:G5:66:VAL:N	2.75	0.50
8:c5:65:VAL:CG2	8:c5:66:VAL:N	2.75	0.50
1:P5:59:ALA:O	1:P5:60:LEU:HD23	2.11	0.50
8:S5:90:ARG:HA	1:T5:18:TYR:CZ	2.47	0.50
1:T5:59:ALA:O	1:T5:60:LEU:HD23	2.11	0.50
1:V5:114:GLU:CD	10:j5:496:GLU:HB2	2.36	0.50
8:W5:17:TYR:CB	1:X5:45:SER:CB	2.78	0.50
12:L6:201:CYC:HB	12:L6:201:CYC:CMA	2.25	0.50
6:M6:243:ALA:HA	12:H6:201:CYC:HBB3	1.94	0.50
10:j5:1017:ARG:O	10:j5:1018:LEU:HG	2.12	0.50
10:j5:1024:LYS:HD2	10:j5:1038:ARG:HH12	1.73	0.50
10:j5:1153:VAL:HG23	1:v7:125:ALA:HA	1.91	0.50
10:k5:19:THR:HB	10:k5:173:ALA:HB1	1.93	0.50
10:k5:56:ILE:CG2	10:k5:57:VAL:H	2.23	0.50
10:k5:289:SER:O	10:k5:289:SER:OG	2.19	0.50
10:k5:325:ASN:ND2	10:k5:325:ASN:C	2.69	0.50
10:k5:722:ILE:O	10:k5:722:ILE:HG22	2.11	0.50
10:k5:863:ILE:O	10:k5:863:ILE:HG22	2.11	0.50
10:k5:925:ILE:HD12	10:k5:925:ILE:C	2.36	0.50
10:k5:1009:ALA:CB	1:p7:87:TYR:OH	2.54	0.50
10:k5:1117:PRO:O	10:k5:1117:PRO:HG2	2.12	0.50
2:C6:138:VAL:HG12	2:C6:138:VAL:O	2.11	0.50
8:O7:35:ARG:NH2	8:O7:145:ASP:OD1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O7:95:GLY:N	8:O7:104:ILE:HD11	2.27	0.50
8:C7:47:ARG:HD3	1:D7:18:TYR:CE1	2.46	0.50
12:F7:201:CYC:HMD1	12:F7:201:CYC:NC	2.09	0.50
8:i7:50:ILE:HG12	8:i7:137:ALA:CA	2.42	0.50
8:k7:66:VAL:CG1	11:a9:61:TYR:CE1	2.94	0.50
8:U7:57:GLN:O	8:U7:61:ILE:HD13	2.12	0.50
8:U7:61:ILE:HG22	8:U7:62:ARG:HG2	1.93	0.50
8:a7:61:ILE:O	11:a9:336:ILE:CB	2.55	0.50
8:a7:95:GLY:N	8:a7:104:ILE:HD11	2.27	0.50
2:A8:2:LYS:HE2	2:K8:22:THR:HB	1.93	0.50
1:l7:68:PRO:CB	1:n7:14:VAL:C	2.67	0.50
8:o7:2:SER:CB	1:p7:5:ILE:CG2	2.80	0.50
8:u7:97:VAL:HG22	1:v7:19:LEU:HD12	1.91	0.50
12:H8:201:CYC:CBB	11:a9:259:ALA:HB2	2.25	0.50
2:N8:138:VAL:HG12	2:N8:138:VAL:O	2.11	0.50
4:M9:160:THR:C	3:V9:108:ARG:HG2	2.37	0.50
5:N9:39:PRO:CB	3:P9:116:THR:OG1	2.60	0.50
3:D9:68:ARG:CZ	3:X9:68:ARG:HH22	2.25	0.50
12:F9:301:CYC:HB	12:F9:301:CYC:HMA2	1.76	0.50
3:H9:113:LEU:HD21	12:H9:202:CYC:HMB3	1.89	0.50
11:aA:548:LEU:C	11:aA:551:PRO:HD2	2.37	0.50
4:M1:160:THR:HG21	4:M1:257:GLN:CB	2.29	0.50
12:D2:201:CYC:HMA2	12:D2:201:CYC:HB	1.76	0.50
3:FA:151:GLY:C	3:F9:150:ARG:HH22	2.09	0.50
3:JA:107:ASP:O	11:aA:517:ALA:HB1	2.11	0.50
5:NA:26:LEU:CD2	5:NA:26:LEU:C	2.85	0.50
2:QA:120:PHE:HZ	3:TA:60:PHE:CE2	2.29	0.50
12:VA:201:CYC:CMA	12:VA:201:CYC:HB	2.25	0.50
2:A4:138:VAL:HG12	2:A4:138:VAL:O	2.11	0.50
2:T4:111:ALA:CB	4:M4:87:ILE:HG21	2.40	0.50
12:W4:201:CYC:HMA2	12:W4:201:CYC:HB	1.76	0.50
2:G4:138:VAL:O	2:G4:138:VAL:HG12	2.11	0.50
3:H4:84:ARG:NE	11:aA:131:TYR:CB	2.75	0.50
3:L4:70:GLY:O	3:L4:71:GLY:O	2.30	0.50
4:M4:226:SER:OG	3:Y4:84:ARG:C	2.54	0.50
3:O4:119:ALA:CB	5:Z4:72:GLU:N	2.74	0.50
8:K5:161:GLN:NE2	1:V5:49:THR:CG2	2.70	0.50
8:A5:12:ASP:CG	1:B5:91:TYR:HE1	2.18	0.50
8:A5:64:ASP:OD1	8:A5:65:VAL:N	2.45	0.50
8:E5:151:PHE:HE1	1:P5:42:ALA:CB	2.24	0.50
8:I5:95:GLY:N	8:I5:104:ILE:HD11	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C1:138:VAL:O	2:C1:138:VAL:HG12	2.11	0.50
8:c5:23:LEU:HD22	1:d5:38:VAL:HG13	1.94	0.50
8:e5:19:SER:HB3	8:e5:22:GLU:HB2	1.93	0.50
8:e5:95:GLY:N	8:e5:104:ILE:HD11	2.27	0.50
12:P5:201:CYC:HB	12:P5:201:CYC:HMA3	1.73	0.50
1:Z5:67:ARG:NH2	10:k5:708:GLY:HA3	2.26	0.50
12:Z5:201:CYC:HMD1	12:Z5:201:CYC:NC	2.09	0.50
8:a5:25:ARG:C	8:a5:27:LYS:H	2.19	0.50
8:a5:57:GLN:O	8:a5:61:ILE:HD13	2.12	0.50
1:b5:31:PHE:CG	10:k5:50:GLY:HA3	2.47	0.50
8:A7:57:GLN:O	8:A7:61:ILE:HD13	2.12	0.50
10:j5:325:ASN:ND2	10:j5:325:ASN:C	2.69	0.50
10:j5:501:ILE:CD1	10:j5:501:ILE:C	2.85	0.50
10:j5:605:ARG:O	10:j5:605:ARG:HG2	2.11	0.50
10:k5:238:ARG:CD	10:k5:238:ARG:C	2.85	0.50
10:k5:346:GLU:O	10:k5:346:GLU:HG3	2.07	0.50
10:k5:549:LYS:HG2	10:k5:551:MET:CG	2.42	0.50
1:R7:59:ALA:O	1:R7:60:LEU:HD23	2.11	0.50
1:h7:59:ALA:O	1:h7:60:LEU:HD23	2.11	0.50
8:i7:4:LEU:HD21	8:i7:26:ILE:HD13	1.93	0.50
8:W7:57:GLN:O	8:W7:61:ILE:HD13	2.12	0.50
8:Y7:106:GLU:OE2	9:x7:68:GLY:O	2.30	0.50
1:b7:52:ILE:HG22	1:b7:52:ILE:O	2.11	0.50
2:E8:14:SER:C	11:a9:163:ASP:OD2	2.55	0.50
8:q7:61:ILE:HG22	8:q7:62:ARG:HG2	1.93	0.50
8:s7:29:PHE:CD1	8:s7:99:GLY:HA3	2.43	0.50
8:s7:95:GLY:N	8:s7:104:ILE:HD11	2.27	0.50
4:M8:96:LYS:HD3	3:Q8:113:LEU:CD2	2.42	0.50
4:M8:190:ARG:HH12	4:M8:202:SER:HB2	1.68	0.50
12:M8:301:CYC:HMA2	12:M8:301:CYC:HB	1.76	0.50
2:N8:14:SER:CA	5:Z8:62:ARG:CD	2.90	0.50
3:O8:107:ASP:OD2	5:Z8:66:ARG:HD2	2.05	0.50
12:O8:201:CYC:CMA	12:O8:201:CYC:HB	2.25	0.50
3:L9:44:ILE:CG2	3:L9:90:LEU:CD2	2.84	0.50
4:M9:262:ASP:OD1	4:M9:263:PRO:HD2	2.12	0.50
11:a9:290:ASP:O	11:a9:291:TYR:CE1	2.56	0.50
11:a9:327:SER:O	11:a9:329:ASN:N	2.45	0.50
11:a9:595:ARG:HG3	11:a9:596:THR:C	2.36	0.50
11:aA:56:ILE:HD11	11:aA:612:TYR:CZ	2.38	0.50
11:aA:327:SER:C	11:aA:329:ASN:N	2.67	0.50
11:aA:823:ILE:HG13	3:L1:75:PRO:CD	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N1:50:LEU:C	5:N1:50:LEU:CD1	2.84	0.50
2:C2:138:VAL:O	2:C2:138:VAL:HG12	2.11	0.50
4:MA:211:GLN:O	5:NA:28:HIS:CE1	2.64	0.49
2:OA:60:TYR:CE1	2:OA:73:GLY:HA3	2.47	0.49
2:O1:138:VAL:O	2:O1:138:VAL:HG12	2.11	0.49
2:A1:2:LYS:HE2	2:K1:22:THR:HB	1.93	0.49
2:I2:138:VAL:HG12	2:I2:138:VAL:O	2.11	0.49
2:K2:138:VAL:O	2:K2:138:VAL:HG12	2.11	0.49
6:M2:45:ILE:HD11	8:i7:78:THR:CG2	2.41	0.49
12:N2:101:CYC:HB	12:N2:101:CYC:CMA	2.25	0.49
12:S4:202:CYC:HMA2	12:S4:202:CYC:HB	1.76	0.49
4:M4:230:GLN:CG	4:M4:231:THR:O	2.60	0.49
3:Y4:85:ASP:HA	3:Y4:88:ILE:CG1	2.38	0.49
3:Y4:113:LEU:HD13	3:Y4:117:TYR:HB2	1.94	0.49
12:B5:201:CYC:HB	12:B5:201:CYC:CMA	1.99	0.49
8:C5:27:LYS:C	8:C5:30:VAL:HG22	2.36	0.49
1:D5:74:THR:OG1	1:D5:77:ARG:CD	2.59	0.49
8:G5:53:GLN:O	8:G5:53:GLN:HG3	2.11	0.49
8:I5:102:THR:CB	8:I5:103:PRO:HD3	2.33	0.49
8:c5:57:GLN:O	8:c5:61:ILE:HD13	2.12	0.49
6:M6:271:VAL:HG21	1:d7:127:VAL:CG1	2.41	0.49
10:j5:549:LYS:C	10:j5:549:LYS:CD	2.84	0.49
10:j5:879:ASP:OD1	9:w7:25:ASN:CG	2.55	0.49
10:k5:216:ASP:HA	10:k5:220:SER:CB	2.42	0.49
10:k5:238:ARG:O	10:k5:238:ARG:HD2	2.11	0.49
10:k5:289:SER:HB2	10:k5:292:GLU:OE2	2.10	0.49
10:k5:985:ALA:O	10:k5:988:ALA:CB	2.60	0.49
8:O7:15:ALA:HA	1:P7:90:ARG:NH1	2.27	0.49
8:O7:21:GLY:C	8:O7:23:LEU:N	2.68	0.49
8:O7:52:LYS:HE3	11:aA:29:ARG:CZ	2.33	0.49
1:P7:59:ALA:O	1:P7:60:LEU:HD23	2.11	0.49
8:E7:128:GLU:HA	8:E7:128:GLU:OE1	2.12	0.49
8:K7:128:GLU:HA	8:K7:128:GLU:OE1	2.12	0.49
8:i7:54:ALA:HB2	8:i7:133:MET:CA	2.42	0.49
1:j7:77:ARG:HH22	9:y7:63:ALA:CB	2.05	0.49
8:k7:23:LEU:HD22	1:l7:38:VAL:HG13	1.94	0.49
8:U7:15:ALA:HB2	9:w7:20:GLY:HA2	1.94	0.49
8:U7:29:PHE:CD1	8:U7:99:GLY:HA3	2.43	0.49
8:W7:4:LEU:HD21	8:W7:26:ILE:HD13	1.93	0.49
1:X7:59:ALA:O	1:X7:60:LEU:HD23	2.11	0.49
8:a7:90:ARG:NE	1:b7:16:GLY:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a7:90:ARG:NH2	1:b7:16:GLY:HA2	2.26	0.49
8:e7:57:GLN:O	8:e7:61:ILE:HD13	2.12	0.49
8:u7:4:LEU:HD23	8:u7:26:ILE:CD1	2.38	0.49
8:u7:94:TYR:CE1	1:v7:18:TYR:HA	2.47	0.49
9:z7:15:LYS:O	9:z7:15:LYS:HG3	2.11	0.49
3:F8:106:GLU:O	4:M8:6:THR:C	2.54	0.49
4:M8:22:SER:HB3	4:M8:23:PRO:CD	2.41	0.49
4:M8:61:ASN:O	4:M8:63:GLY:N	2.40	0.49
4:M8:226:SER:OG	3:Y8:85:ASP:HA	2.11	0.49
12:M8:301:CYC:CMA	12:M8:301:CYC:HB	2.25	0.49
4:M9:21:LEU:HD12	4:M9:21:LEU:C	2.37	0.49
4:M9:41:ASN:HD21	3:B9:119:ALA:HB2	1.76	0.49
5:N9:38:GLU:HB3	5:N9:41:GLN:HE21	1.77	0.49
5:N9:50:LEU:C	5:N9:50:LEU:CD1	2.84	0.49
12:Z8:301:CYC:HMD1	12:Z8:301:CYC:NC	2.12	0.49
3:J9:19:LEU:HD13	3:J9:24:LEU:CD2	2.41	0.49
2:W9:138:VAL:HG12	2:W9:138:VAL:O	2.11	0.49
11:a9:379:LEU:HD13	11:a9:391:VAL:CG2	2.30	0.49
11:a9:816:LEU:C	11:a9:816:LEU:CD2	2.85	0.49
11:aA:327:SER:O	11:aA:329:ASN:N	2.45	0.49
11:aA:633:THR:O	11:aA:633:THR:OG1	2.29	0.49
2:A2:138:VAL:HG12	2:A2:138:VAL:O	2.11	0.49
1:A:76:ARG:CA	10:k5:261:ILE:HD11	2.42	0.49
1:A:110:ASN:O	10:k5:434:TRP:HA	2.12	0.49
1:Z:131:GLN:CD	1:X5:17:LYS:NZ	2.65	0.49
12:HA:202:CYC:HMA2	12:HA:202:CYC:HB	1.76	0.49
3:JA:19:LEU:HD13	3:JA:24:LEU:HG	1.94	0.49
2:KA:138:VAL:O	2:KA:138:VAL:HG12	2.11	0.49
4:MA:133:ARG:HD2	12:RA:201:CYC:O2A	2.11	0.49
5:NA:54:LEU:HB2	12:TA:301:CYC:CGA	2.42	0.49
2:QA:23:GLU:OE2	2:UA:2:LYS:CE	2.60	0.49
12:VA:201:CYC:HB	12:VA:201:CYC:HMA2	1.76	0.49
12:D4:202:CYC:CMA	12:D4:202:CYC:HB	2.26	0.49
12:D4:202:CYC:HB	12:D4:202:CYC:HMA2	1.76	0.49
12:L3:202:CYC:HAA1	11:a9:731:GLN:NE2	2.27	0.49
4:M3:232:VAL:HG21	3:V3:113:LEU:HB2	1.94	0.49
4:M3:274:VAL:CG1	2:U3:111:ALA:HB1	2.42	0.49
5:N3:31:TRP:NE1	2:S3:16:GLY:HA2	2.25	0.49
12:R3:201:CYC:HB	12:R3:201:CYC:HMA2	1.76	0.49
2:W3:138:VAL:HG12	2:W3:138:VAL:O	2.11	0.49
12:S4:202:CYC:HB	12:S4:202:CYC:CMA	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T4:138:VAL:HG12	2:T4:138:VAL:O	2.11	0.49
3:F4:113:LEU:N	4:M4:5:THR:CB	2.76	0.49
3:F4:120:LEU:HD11	11:aA:147:ASN:ND2	2.27	0.49
12:F4:202:CYC:HMA2	12:F4:202:CYC:HB	1.76	0.49
4:M4:222:ARG:HH11	4:M4:222:ARG:CG	2.13	0.49
4:M4:262:ASP:OD1	4:M4:263:PRO:HD2	2.12	0.49
2:N4:60:TYR:CE1	2:N4:73:GLY:HA3	2.47	0.49
2:R4:138:VAL:O	2:R4:138:VAL:HG12	2.11	0.49
8:K5:102:THR:N	8:K5:103:PRO:CD	2.74	0.49
8:M5:61:ILE:HG22	8:M5:62:ARG:HG2	1.93	0.49
8:O5:24:ASP:O	8:O5:26:ILE:N	2.46	0.49
8:G5:108:GLY:HA2	12:G5:201:CYC:HAB1	1.94	0.49
1:J5:38:VAL:O	1:J5:39:ARG:O	2.31	0.49
8:c5:114:GLU:CD	10:j5:312:TYR:C	2.80	0.49
8:e5:61:ILE:HG22	8:e5:62:ARG:HG2	1.93	0.49
8:Q5:8:ILE:HG23	1:R5:94:TYR:CG	2.46	0.49
8:Q5:17:TYR:CD2	1:R5:93:THR:CG2	2.92	0.49
8:S5:90:ARG:HB2	1:T5:18:TYR:CZ	2.48	0.49
1:X5:65:LEU:HD12	10:j5:706:PRO:HG2	1.89	0.49
1:Z5:28:LYS:CE	1:t7:143:PRO:HB3	2.22	0.49
3:L6:70:GLY:HA3	6:M6:67:GLY:HA2	1.91	0.49
6:M6:259:THR:O	6:M6:262:ASP:N	2.22	0.49
9:i5:8:THR:HG22	9:i5:52:LEU:HB2	1.93	0.49
10:j5:277:ILE:CG2	10:j5:284:PRO:CA	2.87	0.49
10:j5:309:LEU:CD1	10:j5:342:LEU:HD13	2.41	0.49
10:j5:328:ILE:HG21	10:j5:336:ARG:CZ	2.42	0.49
10:j5:346:GLU:O	10:j5:346:GLU:HG3	2.07	0.49
10:j5:492:ILE:HG22	10:j5:492:ILE:O	2.11	0.49
10:j5:951:MET:HE1	10:j5:955:LEU:CD2	2.42	0.49
10:j5:1105:ILE:HD13	10:j5:1115:ARG:HH21	1.75	0.49
10:k5:501:ILE:CD1	10:k5:501:ILE:C	2.85	0.49
10:k5:1151:GLN:C	1:p7:122:PRO:HB3	2.36	0.49
12:F6:201:CYC:HB	12:F6:201:CYC:CMA	2.25	0.49
1:P7:76:ARG:CA	8:Q7:110:ILE:O	2.60	0.49
8:M7:57:GLN:O	8:M7:61:ILE:HD13	2.12	0.49
8:g7:95:GLY:N	8:g7:104:ILE:HD11	2.27	0.49
12:h7:201:CYC:OB	9:y7:23:LEU:HB2	2.11	0.49
1:V7:76:ARG:CA	8:W7:110:ILE:O	2.60	0.49
3:B8:111:ASN:H	4:M8:60:LYS:HD2	1.77	0.49
8:s7:21:GLY:C	8:s7:23:LEU:H	2.21	0.49
3:U8:114:LYS:HZ1	4:M8:13:LYS:HD3	1.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X8:69:PRO:CB	2:S9:42:ARG:HD2	2.42	0.49
12:F8:202:CYC:CMA	12:F8:202:CYC:HB	2.25	0.49
4:M8:262:ASP:OD1	4:M8:263:PRO:HD2	2.12	0.49
2:N8:60:TYR:CE1	2:N8:73:GLY:HA3	2.47	0.49
4:M9:133:ARG:HD2	12:R9:201:CYC:O2A	2.11	0.49
4:M9:160:THR:HG21	4:M9:257:GLN:CB	2.30	0.49
4:M9:230:GLN:CG	4:M9:231:THR:O	2.60	0.49
5:N9:54:LEU:HB2	12:T9:301:CYC:CGA	2.42	0.49
5:Z8:29:HIS:CB	5:Z8:31:TRP:HD1	2.23	0.49
5:Z8:37:HIS:CD2	5:Z8:37:HIS:C	2.90	0.49
2:K9:138:VAL:HG12	2:K9:138:VAL:O	2.11	0.49
12:T9:301:CYC:HB	12:T9:301:CYC:HMA2	1.76	0.49
11:aA:632:ILE:N	11:aA:632:ILE:HD12	2.27	0.49
5:N1:26:LEU:CD2	5:N1:26:LEU:C	2.85	0.49
5:N1:37:HIS:CD2	5:N1:37:HIS:C	2.90	0.49
2:W1:138:VAL:O	2:W1:138:VAL:HG12	2.11	0.49
2:A2:60:TYR:CE1	2:A2:73:GLY:HA3	2.47	0.49
1:Z:127:VAL:HG11	1:X5:15:GLN:CB	2.38	0.49
3:DA:68:ARG:CZ	3:XA:68:ARG:HH22	2.25	0.49
4:MA:21:LEU:HD12	4:MA:21:LEU:C	2.37	0.49
4:MA:160:THR:C	3:VA:108:ARG:HG2	2.37	0.49
5:NA:1:MET:HG2	3:RA:119:ALA:CB	1.98	0.49
2:QA:81:LYS:HE2	3:TA:67:ILE:HD11	1.93	0.49
12:QA:201:CYC:CBB	3:TA:75:PRO:HA	2.36	0.49
2:K3:138:VAL:O	2:K3:138:VAL:HG12	2.11	0.49
2:G2:15:GLN:C	6:M2:104:ARG:NE	2.70	0.49
3:H2:2:GLN:NE2	6:M2:75:LYS:NZ	2.60	0.49
3:L2:70:GLY:HA3	6:M2:67:GLY:HA2	1.91	0.49
2:A3:34:ALA:HB1	3:B3:31:VAL:HG21	1.92	0.49
3:D3:68:ARG:NH1	3:X3:68:ARG:NH1	2.56	0.49
12:D3:202:CYC:HB	12:D3:202:CYC:CMA	2.25	0.49
3:B4:92:TYR:OH	12:B4:202:CYC:HAB2	2.12	0.49
2:C4:138:VAL:O	2:C4:138:VAL:HG12	2.11	0.49
4:M3:190:ARG:NH1	4:M3:202:SER:HG	2.08	0.49
4:M3:230:GLN:CG	4:M3:231:THR:O	2.61	0.49
2:E4:1:MET:H2	4:M4:10:ARG:NE	2.09	0.49
3:F4:116:THR:O	3:F4:120:LEU:HG	2.12	0.49
4:M4:58:TYR:O	4:M4:61:ASN:OD1	2.31	0.49
4:M4:131:LEU:CD2	5:Z4:2:SER:HA	2.42	0.49
4:M4:226:SER:OG	3:Y4:84:ARG:O	2.30	0.49
3:Q4:124:THR:CB	3:Q4:172:ALA:HA	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K5:151:PHE:HE1	1:V5:42:ALA:HB2	1.77	0.49
8:M5:105:GLU:OE1	10:k5:532:THR:HG21	2.10	0.49
8:O5:57:GLN:O	8:O5:61:ILE:HD13	2.12	0.49
8:A5:108:GLY:HA2	12:A5:201:CYC:HAB1	1.94	0.49
8:A5:115:MET:SD	1:F5:75:THR:HG22	2.51	0.49
8:C5:110:ILE:CD1	9:z5:15:LYS:HB3	2.34	0.49
8:G5:6:LYS:CE	8:S5:19:SER:OG	2.60	0.49
1:J5:74:THR:OG1	1:J5:77:ARG:CD	2.59	0.49
8:Q5:57:GLN:O	8:Q5:61:ILE:HD13	2.12	0.49
8:Y5:57:GLN:O	8:Y5:61:ILE:HD13	2.12	0.49
8:Y5:61:ILE:HG22	8:Y5:62:ARG:HG2	1.93	0.49
2:K6:138:VAL:HG12	2:K6:138:VAL:O	2.11	0.49
3:L6:77:ARG:HE	6:M6:70:GLU:CG	2.25	0.49
6:M6:75:LYS:NZ	3:H6:2:GLN:NE2	2.60	0.49
9:z5:8:THR:HG22	9:z5:52:LEU:HB2	1.93	0.49
9:z5:56:LEU:N	9:z5:56:LEU:CD1	2.73	0.49
9:i5:6:LYS:HG2	9:i5:55:LYS:CB	2.39	0.49
10:k5:600:VAL:O	10:k5:600:VAL:HG12	2.12	0.49
10:k5:741:GLN:HG3	1:D7:77:ARG:CZ	2.37	0.49
10:k5:969:VAL:HG12	1:n7:77:ARG:HH22	1.76	0.49
8:g7:90:ARG:NE	1:h7:16:GLY:O	2.45	0.49
8:U7:15:ALA:HA	1:V7:90:ARG:NH1	2.27	0.49
8:U7:95:GLY:N	8:U7:104:ILE:HD11	2.27	0.49
8:m7:95:GLY:N	8:m7:104:ILE:HD11	2.27	0.49
12:U8:201:CYC:HB	12:U8:201:CYC:CMA	2.25	0.49
12:F8:202:CYC:HB	12:F8:202:CYC:HMA2	1.76	0.49
4:M8:33:LEU:HD13	4:M8:33:LEU:O	2.13	0.49
12:M8:302:CYC:HMA2	12:M8:302:CYC:HB	1.76	0.49
5:N9:26:LEU:CD2	5:N9:26:LEU:C	2.85	0.49
2:A9:60:TYR:CE1	2:A9:73:GLY:HA3	2.48	0.49
3:J9:107:ASP:O	11:a9:517:ALA:HB1	2.11	0.49
11:aA:289:THR:O	11:aA:293:LEU:HA	2.13	0.49
11:aA:403:THR:HB	11:aA:441:ARG:HH21	1.76	0.49
4:M1:22:SER:HB3	4:M1:23:PRO:CD	2.41	0.49
4:M1:262:ASP:OD1	4:M1:263:PRO:HD2	2.12	0.49
3:DA:108:ARG:HA	4:MA:6:THR:HB	1.95	0.49
3:FA:153:CYS:SG	12:F9:302:CYC:C3C	3.00	0.49
4:MA:274:VAL:CG2	3:VA:77:ARG:HG2	2.41	0.49
2:OA:138:VAL:O	2:OA:138:VAL:HG12	2.11	0.49
2:QA:9:ILE:HG23	3:RA:95:TYR:CG	2.47	0.49
12:QA:201:CYC:HBA2	3:TA:79:MET:CE	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O1:65:TYR:O	2:O1:71:GLN:CG	2.54	0.49
2:A1:60:TYR:CE1	2:A1:73:GLY:HA3	2.48	0.49
3:J3:120:LEU:HD21	11:a9:800:THR:HG23	1.76	0.49
2:G2:113:LEU:CA	3:L2:76:ASN:HD22	2.22	0.49
12:J2:202:CYC:HMA3	6:M2:160:ASN:HD21	1.76	0.49
2:K2:22:THR:HB	2:A2:2:LYS:HE2	1.93	0.49
6:M2:34:ARG:HD2	8:O5:52:LYS:CD	2.42	0.49
2:A3:60:TYR:CE1	2:A3:73:GLY:HA3	2.48	0.49
4:M3:252:LEU:CD1	3:X3:77:ARG:NH1	2.75	0.49
2:S3:138:VAL:HG12	2:S3:138:VAL:O	2.11	0.49
3:B1:91:ARG:HH22	11:aA:677:GLN:CD	2.20	0.49
3:F4:113:LEU:HA	4:M4:5:THR:CG2	2.29	0.49
12:J4:201:CYC:CMA	12:J4:201:CYC:HB	2.25	0.49
12:L4:202:CYC:HB	12:L4:202:CYC:CMA	2.25	0.49
4:M4:180:ASN:HD21	3:Y4:108:ARG:HE	1.59	0.49
12:K5:201:CYC:O2A	1:J5:66:THR:OG1	2.29	0.49
5:Z4:50:LEU:C	5:Z4:50:LEU:CD1	2.84	0.49
8:E5:101:VAL:C	8:E5:103:PRO:HD2	2.37	0.49
8:G5:64:ASP:OD1	8:G5:65:VAL:N	2.45	0.49
1:J5:59:ALA:O	1:J5:60:LEU:HD23	2.11	0.49
3:J6:88:ILE:HD11	6:M6:185:PHE:HE1	1.74	0.49
3:L6:65:ASP:OD2	1:b7:64:ASP:HB2	2.11	0.49
7:N6:49:LEU:CD1	3:B6:84:ARG:NE	2.74	0.49
12:N6:101:CYC:HB	12:N6:101:CYC:HMA2	1.76	0.49
10:j5:547:ARG:C	10:j5:547:ARG:CD	2.85	0.49
10:j5:1023:SER:HG	12:f7:201:CYC:CGA	2.05	0.49
10:j5:1146:THR:HA	1:v7:77:ARG:NH2	2.22	0.49
10:k5:888:THR:OG1	12:D7:201:CYC:O2A	2.29	0.49
10:k5:1023:SER:O	10:k5:1027:ASN:HB2	2.11	0.49
10:k5:1064:LYS:CD	10:k5:1064:LYS:C	2.85	0.49
2:E6:138:VAL:HG12	2:E6:138:VAL:O	2.11	0.49
3:D1:118:VAL:HG22	4:M1:254:LEU:HD13	1.95	0.49
8:S7:23:LEU:HD22	1:T7:38:VAL:HG13	1.94	0.49
8:C7:95:GLY:N	8:C7:104:ILE:HD11	2.27	0.49
1:J7:59:ALA:O	1:J7:60:LEU:HD23	2.11	0.49
8:K7:57:GLN:O	8:K7:61:ILE:HD13	2.12	0.49
1:L7:3:ASP:H	1:L7:6:THR:HG1	1.60	0.49
8:U7:60:GLN:CD	1:p7:117:ASN:CG	2.63	0.49
8:c7:57:GLN:O	8:c7:61:ILE:HD13	2.12	0.49
1:d7:59:ALA:O	1:d7:60:LEU:HD23	2.11	0.49
2:X8:22:THR:HB	2:N8:2:LYS:HE2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J8:201:CYC:CMA	12:J8:201:CYC:HB	2.25	0.49
4:M8:7:SER:C	4:M8:14:LEU:HD13	2.08	0.49
4:M8:235:PHE:CA	12:M8:301:CYC:HMA1	2.43	0.49
12:M8:302:CYC:CMA	12:M8:302:CYC:HB	2.26	0.49
2:P8:138:VAL:HG12	2:P8:138:VAL:O	2.11	0.49
3:F1:84:ARG:CZ	4:M1:35:THR:OG1	2.61	0.49
3:L9:52:ILE:CG1	3:L9:87:GLU:HA	2.42	0.49
4:M9:158:PHE:HE1	2:U9:13:ASP:HB3	1.77	0.49
12:a9:901:CYC:CMA	12:a9:901:CYC:HB	2.25	0.49
11:aA:615:ARG:HH11	11:aA:615:ARG:CB	2.20	0.49
12:V1:201:CYC:CMA	12:V1:201:CYC:HB	2.26	0.49
12:V1:201:CYC:HB	12:V1:201:CYC:HMA2	1.76	0.49
12:JA:202:CYC:O2A	11:aA:511:LYS:CD	2.60	0.49
4:MA:16:LYS:HB2	4:MA:46:VAL:HG22	1.93	0.49
4:MA:230:GLN:CG	4:MA:231:THR:O	2.60	0.49
2:SA:138:VAL:O	2:SA:138:VAL:HG12	2.11	0.49
12:Z3:201:CYC:CBA	4:M3:185:ALA:HA	2.42	0.49
12:B4:202:CYC:C4B	4:M4:61:ASN:HD22	2.26	0.49
4:M3:269:SER:CA	3:V3:111:ASN:HD22	2.24	0.49
5:N3:26:LEU:CD2	5:N3:26:LEU:C	2.85	0.49
2:U3:138:VAL:HG12	2:U3:138:VAL:O	2.11	0.49
3:B1:84:ARG:NH2	12:B1:202:CYC:C1A	2.75	0.49
3:F4:84:ARG:CG	11:aA:139:ILE:HG21	2.41	0.49
3:H4:111:ASN:OD1	11:aA:291:TYR:HE1	1.95	0.49
4:M4:33:LEU:HD13	4:M4:33:LEU:O	2.13	0.49
4:M4:94:TRP:CH2	3:Q4:87:GLU:HG2	2.48	0.49
3:O4:111:ASN:CB	5:Z4:67:ILE:HB	2.37	0.49
8:K5:112:VAL:HG23	1:J5:75:THR:HG22	1.86	0.49
1:L5:68:PRO:HB3	1:H5:14:VAL:O	2.12	0.49
1:L5:76:ARG:CB	8:G5:110:ILE:O	2.60	0.49
3:Y4:85:ASP:C	3:Y4:88:ILE:HG12	2.37	0.49
1:B5:14:VAL:O	1:F5:68:PRO:HB3	2.12	0.49
8:C5:4:LEU:CD2	8:C5:4:LEU:C	2.84	0.49
8:C5:57:GLN:O	8:C5:61:ILE:HD13	2.12	0.49
8:E5:71:ASN:OD1	8:E5:121:THR:HA	2.12	0.49
8:G5:69:GLY:O	8:U5:64:ASP:CG	2.55	0.49
8:G5:88:TYR:CZ	12:G5:201:CYC:HMB3	2.48	0.49
8:I5:2:SER:CA	8:I5:100:ASP:HB3	2.43	0.49
8:I5:27:LYS:C	8:I5:30:VAL:HG22	2.36	0.49
8:I5:90:ARG:HD3	1:J5:18:TYR:CD1	2.47	0.49
12:f5:201:CYC:HB	12:f5:201:CYC:HMA3	1.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:R5:201:CYC:CMA	12:R5:201:CYC:NB	2.74	0.49
8:Y5:23:LEU:HD22	1:Z5:38:VAL:HG13	1.94	0.49
1:Z5:127:VAL:CG1	10:k5:697:PHE:C	2.83	0.49
12:J6:202:CYC:HB	12:J6:202:CYC:CMA	2.25	0.49
6:M6:104:ARG:NE	2:G6:15:GLN:C	2.70	0.49
6:M6:251:LYS:HZ3	3:H6:120:LEU:C	2.20	0.49
8:A7:61:ILE:HG22	8:A7:62:ARG:HG2	1.93	0.49
10:j5:949:ARG:NH2	10:j5:954:GLU:OE2	2.45	0.49
10:j5:951:MET:HE3	10:j5:951:MET:C	2.34	0.49
10:j5:1060:GLU:C	10:j5:1063:THR:HG1	2.20	0.49
10:j5:1064:LYS:CD	10:j5:1064:LYS:C	2.86	0.49
10:j5:1101:GLU:O	10:j5:1101:GLU:HG3	2.13	0.49
10:j5:1151:GLN:HG3	1:v7:122:PRO:HA	1.95	0.49
10:k5:77:VAL:HG23	10:k5:77:VAL:O	2.13	0.49
10:k5:216:ASP:HA	10:k5:220:SER:HB2	1.94	0.49
10:k5:375:VAL:HG11	10:k5:456:ILE:HD13	1.94	0.49
10:k5:492:ILE:O	10:k5:492:ILE:HG22	2.11	0.49
10:k5:1015:TYR:OH	8:k7:110:ILE:HG21	2.04	0.49
10:k5:1101:GLU:O	10:k5:1101:GLU:HG3	2.13	0.49
12:k5:1202:CYC:HMD1	12:k5:1202:CYC:NC	2.09	0.49
3:D6:52:ILE:HD11	3:D6:87:GLU:HA	1.95	0.49
3:D1:68:ARG:NH1	3:X1:68:ARG:NH1	2.56	0.49
8:Q7:57:GLN:O	8:Q7:61:ILE:HD13	2.12	0.49
1:F7:59:ALA:O	1:F7:60:LEU:HD23	2.11	0.49
8:I7:95:GLY:N	8:I7:104:ILE:HD11	2.27	0.49
8:I7:161:GLN:NE2	1:X7:49:THR:HG22	2.26	0.49
8:k7:65:VAL:CG2	8:k7:66:VAL:N	2.75	0.49
12:V7:201:CYC:HB	12:V7:201:CYC:HMA3	1.73	0.49
8:a7:57:GLN:O	8:a7:61:ILE:HD13	2.12	0.49
8:c7:50:ILE:HG12	8:c7:137:ALA:CA	2.42	0.49
8:m7:15:ALA:HA	1:n7:90:ARG:NH1	2.27	0.49
2:V8:138:VAL:HG12	2:V8:138:VAL:O	2.11	0.49
3:Q8:78:ARG:HD2	12:Z8:301:CYC:CMD	2.42	0.49
4:M9:33:LEU:HD13	4:M9:33:LEU:O	2.13	0.49
2:I9:19:LEU:HD13	3:J9:41:VAL:HG11	1.92	0.49
3:J9:88:ILE:CG1	11:a9:512:TYR:CZ	2.96	0.49
11:a9:338:VAL:CB	11:a9:340:PRO:HD3	2.42	0.49
11:a9:595:ARG:CG	11:a9:596:THR:N	2.68	0.49
11:aA:252:ARG:NH2	11:aA:291:TYR:HB3	2.26	0.49
11:aA:581:ARG:C	11:aA:581:ARG:CD	2.85	0.49
2:K1:138:VAL:O	2:K1:138:VAL:HG12	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M1:170:PHE:HD1	4:M1:174:LEU:HD12	1.77	0.49
4:M1:185:ALA:HA	12:Z1:202:CYC:CBA	2.42	0.49
3:V1:52:ILE:HD11	3:V1:87:GLU:HA	1.95	0.49
12:X1:201:CYC:HMA2	12:X1:201:CYC:HB	1.76	0.49
3:F2:82:CYS:HB2	12:F2:201:CYC:CMD	2.36	0.49
12:F2:201:CYC:HB	12:F2:201:CYC:CMA	2.25	0.49
2:GA:138:VAL:O	2:GA:138:VAL:HG12	2.11	0.49
3:HA:117:TYR:CE1	12:HA:202:CYC:C4A	2.96	0.49
12:HA:202:CYC:CMA	12:HA:202:CYC:HB	2.25	0.49
4:MA:33:LEU:HD13	4:MA:33:LEU:O	2.13	0.49
4:MA:158:PHE:HE1	2:UA:13:ASP:HB3	1.77	0.49
4:MA:262:ASP:OD1	4:MA:263:PRO:HD2	2.12	0.49
5:NA:38:GLU:HB3	5:NA:41:GLN:HE21	1.77	0.49
12:QA:201:CYC:HAA1	3:TA:79:MET:CE	2.38	0.49
3:J3:88:ILE:HD12	11:a9:668:TYR:OH	2.12	0.49
12:H2:202:CYC:HC	12:H2:202:CYC:HMD3	1.78	0.49
6:M2:39:ARG:HH21	8:O5:66:VAL:HG11	1.74	0.49
4:M3:262:ASP:OD1	4:M3:263:PRO:HD2	2.12	0.49
3:P3:52:ILE:HD11	3:P3:87:GLU:HA	1.95	0.49
12:R3:201:CYC:HB	12:R3:201:CYC:CMA	2.25	0.49
3:F4:52:ILE:HD11	3:F4:87:GLU:HA	1.95	0.49
12:F4:202:CYC:CMA	12:F4:202:CYC:HB	2.25	0.49
12:H4:201:CYC:HB	12:H4:201:CYC:CMA	2.26	0.49
2:K4:138:VAL:HG12	2:K4:138:VAL:O	2.11	0.49
4:M4:268:ARG:HH12	3:Y4:112:GLY:HA2	1.78	0.49
3:O4:88:ILE:CD1	5:Z4:54:LEU:HD11	2.41	0.49
3:Q4:93:VAL:HG13	3:Q4:163:TYR:CB	2.42	0.49
8:C5:27:LYS:O	8:C5:29:PHE:C	2.56	0.49
1:D5:38:VAL:O	1:D5:39:ARG:O	2.30	0.49
8:E5:39:ILE:HG12	8:E5:145:ASP:HB3	1.95	0.49
12:H5:201:CYC:HBB2	9:i5:21:ARG:CB	2.43	0.49
8:I5:68:PRO:HB3	8:Q7:59:PHE:CD2	2.47	0.49
1:V5:114:GLU:OE1	10:j5:496:GLU:HB2	2.10	0.49
8:Y5:14:GLU:OE2	10:k5:393:MET:HA	2.12	0.49
10:j5:216:ASP:HA	10:j5:220:SER:CB	2.42	0.49
10:j5:372:ARG:O	10:j5:372:ARG:HG3	2.09	0.49
10:j5:500:PRO:HG2	10:j5:500:PRO:O	2.12	0.49
10:j5:964:GLY:C	1:t7:69:GLY:HA2	2.14	0.49
10:j5:971:VAL:HG12	1:t7:76:ARG:NH1	2.06	0.49
10:j5:985:ALA:O	10:j5:988:ALA:CB	2.60	0.49
10:j5:1018:LEU:CB	10:j5:1021:ALA:CB	2.49	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1052:PRO:O	10:j5:1053:TYR:CG	2.65	0.49
10:j5:1117:PRO:HG2	10:j5:1117:PRO:O	2.12	0.49
10:k5:275:THR:HG21	10:k5:286:VAL:HA	1.94	0.49
10:k5:691:SER:O	10:k5:691:SER:OG	2.25	0.49
10:k5:803:LYS:CE	9:z7:43:ARG:NH1	2.76	0.49
10:k5:1018:LEU:CB	10:k5:1021:ALA:CB	2.49	0.49
12:D1:202:CYC:HB	12:D1:202:CYC:CMA	2.25	0.49
1:P7:76:ARG:HD3	8:Q7:110:ILE:HD11	1.93	0.49
8:C7:44:THR:OG1	1:D7:18:TYR:HD2	1.91	0.49
8:a7:161:GLN:HG2	1:p7:49:THR:CG2	2.35	0.49
8:c7:12:ASP:CB	1:d7:94:TYR:HE2	2.24	0.49
12:B8:202:CYC:C4B	4:M8:61:ASN:HD22	2.26	0.49
3:D8:107:ASP:CB	11:a9:109:ASN:HB3	2.42	0.49
8:q7:75:GLU:CB	11:aA:53:VAL:CG1	2.89	0.49
9:w7:29:THR:O	9:w7:30:LYS:HB3	2.13	0.49
3:F8:1:MET:H3	4:M8:10:ARG:HB3	1.78	0.49
4:M8:92:GLU:OE2	4:M8:217:VAL:HG21	2.02	0.49
4:M8:99:VAL:HG22	3:Q8:108:ARG:CZ	2.43	0.49
4:M8:205:ASP:OD2	5:Z8:59:ARG:NE	2.46	0.49
4:M9:6:THR:HB	3:D9:108:ARG:HA	1.95	0.49
5:Z8:15:LEU:O	5:Z8:73:GLY:CA	2.61	0.49
2:A9:138:VAL:O	2:A9:138:VAL:HG12	2.11	0.49
3:F9:37:ARG:HA	3:F9:156:LEU:HD21	1.95	0.49
12:J9:202:CYC:CBB	11:a9:516:GLN:O	2.60	0.49
11:a9:308:LEU:CD2	11:a9:308:LEU:C	2.85	0.49
11:a9:327:SER:C	11:a9:329:ASN:N	2.67	0.49
11:aA:338:VAL:CB	11:aA:340:PRO:HD3	2.42	0.49
11:aA:668:TYR:HE2	3:J1:80:ALA:CB	2.21	0.49
11:aA:707:PHE:CD2	3:L1:108:ARG:CZ	2.96	0.49
11:aA:709:CYS:O	11:aA:807:GLN:CB	2.53	0.49
12:aA:901:CYC:HMA2	12:aA:901:CYC:HB	1.76	0.49
4:M1:162:ASN:HB3	12:Z1:202:CYC:OB	2.09	0.49
4:M1:232:VAL:HG11	3:V1:109:CYS:O	2.12	0.49
2:AA:52:VAL:CG1	2:AA:83:ALA:HA	2.43	0.49
3:BA:26:GLN:O	3:BA:30:LEU:HD11	1.98	0.49
12:FA:301:CYC:HB	12:FA:301:CYC:CMA	2.26	0.49
2:IA:138:VAL:HG12	2:IA:138:VAL:O	2.11	0.49
4:MA:176:ARG:HH11	4:MA:176:ARG:HG2	1.74	0.49
4:MA:259:ARG:HH12	3:VA:116:THR:H	1.59	0.49
5:NA:37:HIS:CD2	5:NA:37:HIS:C	2.90	0.49
2:QA:138:VAL:O	2:QA:138:VAL:HG12	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:TA:52:ILE:HD11	3:TA:87:GLU:HA	1.95	0.49
3:ZA:52:ILE:HD11	3:ZA:87:GLU:HA	1.95	0.49
12:R1:201:CYC:HB	12:R1:201:CYC:CMA	2.26	0.49
3:J3:77:ARG:NH2	2:K3:107:ASP:N	2.60	0.49
3:J3:119:ALA:C	11:a9:803:ASN:CB	2.82	0.49
12:H2:201:CYC:HB	12:H2:201:CYC:CMA	2.25	0.49
4:M3:33:LEU:HD13	4:M3:33:LEU:O	2.13	0.49
5:N3:38:GLU:HB3	5:N3:41:GLN:HE21	1.77	0.49
2:U3:141:GLN:O	2:Q9:76:ASP:HA	2.07	0.49
3:H4:119:ALA:C	11:aA:266:ASN:ND2	2.71	0.49
2:I4:138:VAL:HG12	2:I4:138:VAL:O	2.11	0.49
12:L4:202:CYC:CAB	11:aA:239:TYR:CE1	2.93	0.49
4:M4:214:GLY:HA3	5:Z4:28:HIS:ND1	2.27	0.49
4:M4:227:GLN:N	3:Y4:88:ILE:HG21	2.27	0.49
2:N4:2:LYS:HE2	2:X4:22:THR:HB	1.93	0.49
8:K5:24:ASP:CG	8:U5:148:GLU:OE2	2.53	0.49
8:K5:113:LYS:O	8:K5:117:ASN:ND2	2.45	0.49
12:N5:201:CYC:CBB	10:k5:482:GLN:HE22	2.25	0.49
8:O5:95:GLY:N	8:O5:104:ILE:HD11	2.27	0.49
2:X4:138:VAL:HG12	2:X4:138:VAL:O	2.12	0.49
5:Z4:21:ALA:HA	5:Z4:42:SER:O	2.11	0.49
5:Z4:38:GLU:N	12:Z4:301:CYC:HMB2	2.24	0.49
5:Z4:42:SER:N	12:Z4:301:CYC:HMA3	2.23	0.49
12:Z4:301:CYC:CMA	12:Z4:301:CYC:HB	2.25	0.49
8:A5:114:GLU:CB	1:F5:79:ALA:CB	2.91	0.49
1:B5:107:ARG:CD	9:z5:21:ARG:HD3	2.42	0.49
12:B5:201:CYC:HMD1	12:B5:201:CYC:NC	2.09	0.49
8:C5:2:SER:CA	8:C5:100:ASP:HB3	2.43	0.49
8:G5:61:ILE:HD11	8:o7:67:SER:HB2	1.80	0.49
8:G5:107:ILE:HG21	1:H5:13:ASP:OD1	2.13	0.49
1:J5:71:MEN:O	1:J5:77:ARG:CZ	2.60	0.49
8:Q5:128:GLU:HA	8:Q5:128:GLU:OE1	2.13	0.49
8:S5:41:GLN:NE2	1:D7:143:PRO:CD	2.76	0.49
8:a5:2:SER:CA	8:a5:100:ASP:HB3	2.43	0.49
8:A7:65:VAL:CG2	8:A7:66:VAL:N	2.75	0.49
10:j5:85:SER:HB2	10:j5:157:ILE:HG21	1.95	0.49
10:j5:275:THR:HG21	10:j5:286:VAL:HA	1.94	0.49
10:j5:292:GLU:N	10:j5:292:GLU:OE1	2.46	0.49
10:j5:1053:TYR:O	1:r7:107:ARG:HD2	2.12	0.49
10:k5:951:MET:HE1	10:k5:955:LEU:CD2	2.42	0.49
10:k5:1046:ARG:HD2	8:k7:13:ALA:CB	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:1052:PRO:O	10:k5:1053:TYR:CG	2.65	0.49
10:k5:1081:VAL:HG21	12:k5:1203:CYC:CMA	2.43	0.49
12:D6:201:CYC:HB	12:D6:201:CYC:CMA	2.26	0.49
8:C7:57:GLN:O	8:C7:61:ILE:HD13	2.12	0.49
8:E7:57:GLN:O	8:E7:61:ILE:HD13	2.12	0.49
8:k7:57:GLN:O	8:k7:61:ILE:HD13	2.12	0.49
8:U7:2:SER:CA	8:U7:100:ASP:HB3	2.43	0.49
8:W7:12:ASP:O	9:w7:46:LYS:CE	2.61	0.49
1:b7:75:THR:C	8:c7:111:GLY:HA3	2.37	0.49
2:E1:114:ARG:HH12	11:aA:671:GLU:CD	2.20	0.49
1:l7:59:ALA:O	1:l7:60:LEU:HD23	2.11	0.49
9:z7:15:LYS:HD2	9:z7:15:LYS:C	2.38	0.49
3:F8:52:ILE:HD11	3:F8:87:GLU:HA	1.95	0.49
2:K8:138:VAL:HG12	2:K8:138:VAL:O	2.11	0.49
3:L8:52:ILE:HD11	3:L8:87:GLU:HA	1.95	0.49
3:L8:68:ARG:CB	11:a9:82:GLN:HB2	2.33	0.49
4:M8:148:LYS:CD	4:M8:197:ASP:OD1	2.61	0.49
3:Q8:52:ILE:HD11	3:Q8:87:GLU:HA	1.95	0.49
4:M9:181:GLN:HA	4:M9:266:LEU:HD23	1.95	0.49
3:H9:52:ILE:HD11	3:H9:87:GLU:HA	1.95	0.49
3:H9:72:ASN:CG	12:H9:202:CYC:CMD	2.85	0.49
11:a9:320:ASP:O	11:a9:321:ALA:C	2.50	0.49
11:a9:398:GLN:HE21	11:a9:505:PRO:HB2	1.77	0.49
11:aA:588:VAL:CA	11:aA:590:PRO:HD2	2.42	0.49
11:aA:708:HIS:CA	3:L1:108:ARG:NH2	2.74	0.49
12:aA:901:CYC:CMA	12:aA:901:CYC:HB	2.26	0.49
4:M1:230:GLN:HG2	4:M1:231:THR:O	2.13	0.49
4:M1:233:GLU:HG2	4:M1:233:GLU:O	2.13	0.49
4:M1:274:VAL:CG1	2:U1:111:ALA:HB1	2.42	0.49
2:Y1:138:VAL:HG12	2:Y1:138:VAL:O	2.11	0.49
3:LA:120:LEU:O	11:aA:539:GLY:HA2	2.13	0.49
2:OA:52:VAL:CG1	2:OA:83:ALA:HA	2.43	0.49
3:P1:111:ASN:ND2	5:N1:74:GLU:HA	2.16	0.49
6:M2:130:ARG:NH1	12:F2:201:CYC:O2A	2.46	0.49
2:E3:138:VAL:HG12	2:E3:138:VAL:O	2.11	0.49
3:F3:84:ARG:CZ	4:M3:35:THR:OG1	2.61	0.49
4:M3:21:LEU:HD12	4:M3:21:LEU:C	2.37	0.49
3:V3:52:ILE:HD11	3:V3:87:GLU:HA	1.95	0.49
3:W4:52:ILE:HD11	3:W4:87:GLU:HA	1.95	0.49
12:W4:201:CYC:HB	12:W4:201:CYC:CMA	2.26	0.49
3:F4:115:GLU:CA	4:M4:3:VAL:HG11	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:141:GLU:CG	4:M4:145:LEU:CD1	2.90	0.49
4:M4:235:PHE:CD2	12:M4:301:CYC:C3A	2.59	0.49
3:Q4:93:VAL:HG11	3:Q4:164:PHE:CD2	2.48	0.49
8:K5:71:ASN:OD1	8:K5:121:THR:HA	2.13	0.49
12:L5:201:CYC:HMD1	12:L5:201:CYC:NC	2.09	0.49
5:Z4:15:LEU:O	5:Z4:73:GLY:CA	2.61	0.49
1:B5:2:GLN:CD	10:k5:551:MET:HG2	2.38	0.49
8:C5:29:PHE:HE2	1:D5:5:ILE:CD1	2.26	0.49
1:D5:71:MEN:O	1:D5:77:ARG:CZ	2.61	0.49
12:F5:201:CYC:HMA2	10:k5:591:ILE:HG22	1.88	0.49
8:I5:57:GLN:O	8:I5:61:ILE:HD13	2.12	0.49
8:S5:41:GLN:CD	1:D7:143:PRO:HD3	2.38	0.49
8:W5:4:LEU:HD23	8:W5:26:ILE:CD1	2.38	0.49
8:W5:16:ARG:N	1:X5:90:ARG:CD	2.39	0.49
3:L6:52:ILE:HD11	3:L6:87:GLU:HA	1.95	0.49
8:A7:86:ASP:CB	11:aA:579:PHE:HZ	2.21	0.49
10:j5:301:TYR:HE1	10:j5:337:LEU:HD21	1.78	0.49
10:j5:974:LEU:CB	1:v7:1:MET:N	2.72	0.49
10:j5:1057:LYS:O	10:j5:1061:LEU:HG	2.12	0.49
10:k5:803:LYS:HE3	9:z7:43:ARG:NH1	2.28	0.49
10:k5:1118:THR:HG23	12:k5:1204:CYC:CGA	2.43	0.49
2:G6:138:VAL:HG12	2:G6:138:VAL:O	2.11	0.49
2:I6:53:LYS:HE2	11:a9:294:THR:HG22	1.93	0.49
8:O7:57:GLN:O	8:O7:61:ILE:HD13	2.12	0.49
8:Q7:4:LEU:HD21	8:Q7:26:ILE:HD13	1.94	0.49
8:Q7:128:GLU:HA	8:Q7:128:GLU:OE1	2.12	0.49
1:R7:3:ASP:H	1:R7:6:THR:HG1	1.57	0.49
12:F7:201:CYC:CMA	12:F7:201:CYC:NB	2.74	0.49
8:k7:61:ILE:HG22	8:k7:62:ARG:HG2	1.93	0.49
8:W7:39:ILE:HG12	8:W7:145:ASP:HB3	1.95	0.49
8:Y7:57:GLN:O	8:Y7:61:ILE:HD13	2.12	0.49
8:c7:89:LEU:HD13	8:c7:153:PHE:CE1	2.48	0.49
8:q7:23:LEU:HD22	1:r7:38:VAL:HG13	1.94	0.49
3:W8:52:ILE:HD11	3:W8:87:GLU:HA	1.95	0.49
3:H8:14:LEU:HD21	11:a9:86:ASP:N	2.27	0.49
3:L8:120:LEU:CD1	12:a9:901:CYC:HAA2	2.42	0.49
4:M8:16:LYS:HB2	4:M8:46:VAL:HG22	1.93	0.49
4:M8:142:PHE:O	4:M8:146:LEU:HG	2.13	0.49
3:L9:44:ILE:HG22	3:L9:90:LEU:HD21	1.88	0.49
3:L9:45:THR:OG1	2:K9:19:LEU:O	2.27	0.49
3:L9:120:LEU:O	11:a9:539:GLY:HA2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:158:PHE:CE1	2:U9:10:ALA:O	2.65	0.49
5:N9:3:VAL:CG1	3:R9:115:GLU:HB2	2.33	0.49
3:Y8:52:ILE:HD11	3:Y8:87:GLU:HA	1.95	0.49
5:Z8:26:LEU:CD2	5:Z8:26:LEU:C	2.85	0.49
12:H9:202:CYC:CMA	12:H9:202:CYC:HB	2.25	0.49
3:R9:52:ILE:HD11	3:R9:87:GLU:HA	1.95	0.49
2:G1:111:ALA:HB3	3:L1:77:ARG:HG3	1.90	0.49
11:a9:817:LEU:O	11:a9:818:ARG:C	2.52	0.49
11:aA:582:MET:O	11:aA:582:MET:HG2	2.12	0.49
12:H1:201:CYC:HB	12:H1:201:CYC:CMA	2.25	0.49
3:D2:52:ILE:HD11	3:D2:87:GLU:HA	1.95	0.49
3:DA:68:ARG:NH2	3:XA:68:ARG:HH22	2.09	0.49
3:HA:116:THR:CG2	11:aA:449:ASN:ND2	2.65	0.49
3:JA:108:ARG:HA	11:aA:517:ALA:CA	2.40	0.49
2:KA:30:ARG:HD3	2:KA:30:ARG:C	2.38	0.49
12:LA:202:CYC:CMA	12:LA:202:CYC:HB	2.25	0.49
4:MA:158:PHE:CE1	2:UA:10:ALA:O	2.65	0.49
4:MA:210:ILE:HD13	5:NA:59:ARG:NH1	2.27	0.49
5:NA:54:LEU:HD12	12:TA:301:CYC:C1B	2.33	0.49
2:QA:25:GLN:HE22	2:UA:100:GLY:CA	2.26	0.49
2:QA:159:ASN:OD1	3:VA:49:ALA:HB2	2.12	0.49
2:O1:60:TYR:CE1	2:O1:73:GLY:HA3	2.48	0.49
6:M2:50:LEU:CD2	8:i7:79:ALA:CA	2.90	0.49
3:L3:120:LEU:HD23	11:a9:731:GLN:HG2	1.94	0.49
4:M3:51:ARG:HB3	4:M3:51:ARG:NH1	2.23	0.49
4:M3:61:ASN:C	4:M3:63:GLY:N	2.64	0.49
4:M3:230:GLN:HG2	4:M3:231:THR:O	2.13	0.49
2:O3:60:TYR:CE1	2:O3:73:GLY:HA3	2.48	0.49
2:U3:46:SER:C	2:Q9:74:TYR:CE1	2.81	0.49
12:X3:201:CYC:HB	12:X3:201:CYC:CMA	2.26	0.49
3:F4:108:ARG:NH2	4:M4:9:GLN:NE2	2.61	0.49
4:M4:176:ARG:HG2	4:M4:176:ARG:O	2.13	0.49
3:O4:107:ASP:CB	5:Z4:66:ARG:HB2	2.34	0.49
12:O4:201:CYC:CGA	5:Z4:50:LEU:CD1	2.91	0.49
3:Q4:72:ASN:OD1	12:Z4:301:CYC:NC	2.43	0.49
8:K5:131:ARG:CZ	8:K5:157:VAL:HG11	2.42	0.49
8:K5:151:PHE:CE1	1:V5:42:ALA:HB2	2.48	0.49
1:N5:87:TYR:CZ	10:k5:483:PHE:HE2	2.31	0.49
8:O5:76:LYS:HG2	8:O5:77:MET:HE3	1.93	0.49
8:A5:15:ALA:HB2	9:z5:20:GLY:HA3	1.95	0.49
1:f5:114:GLU:OE1	10:j5:491:THR:OG1	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:S5:65:VAL:CG2	8:S5:66:VAL:N	2.75	0.49
8:U5:61:ILE:HG22	8:U5:62:ARG:HG2	1.93	0.49
1:b5:17:LYS:C	10:k5:169:TYR:OH	2.51	0.49
3:J6:52:ILE:HD11	3:J6:87:GLU:HA	1.95	0.49
8:A7:23:LEU:HD13	8:M7:151:PHE:CE1	2.48	0.49
10:j5:283:ARG:N	10:j5:283:ARG:CD	2.71	0.49
10:k5:878:GLU:HG3	9:z7:28:PHE:CD2	2.47	0.49
10:k5:990:ARG:HH21	10:k5:1026:LYS:HZ1	1.30	0.49
2:A6:34:ALA:CB	3:B6:31:VAL:HG11	2.38	0.49
2:A6:52:VAL:CG1	2:A6:83:ALA:HA	2.43	0.49
8:M7:49:ARG:NH1	3:H9:119:ALA:CA	2.54	0.49
1:h7:68:PRO:HD3	8:i7:87:TYR:OH	2.12	0.49
8:i7:90:ARG:CZ	1:j7:13:ASP:OD1	2.58	0.49
8:c7:50:ILE:HG12	8:c7:137:ALA:CB	2.41	0.49
2:A8:52:VAL:CG1	2:A8:83:ALA:HA	2.43	0.49
8:q7:130:VAL:HG12	8:q7:157:VAL:HG23	1.95	0.49
2:X8:67:THR:OG1	3:T9:28:THR:CB	2.60	0.49
3:J8:52:ILE:HD11	3:J8:87:GLU:HA	1.95	0.49
12:J8:202:CYC:HC	12:J8:202:CYC:HMD3	1.78	0.49
4:M8:130:SER:HB3	12:M8:302:CYC:CAA	2.40	0.49
3:O8:52:ILE:HD11	3:O8:87:GLU:HA	1.95	0.49
4:M9:94:TRP:CH2	5:N9:29:HIS:CE1	3.01	0.49
4:M9:188:LEU:HG	3:V9:84:ARG:NE	2.26	0.49
5:Z8:50:LEU:C	5:Z8:50:LEU:CD1	2.84	0.49
3:J9:19:LEU:HD13	3:J9:24:LEU:HG	1.94	0.49
12:T9:301:CYC:HB	12:T9:301:CYC:CMA	2.25	0.49
11:a9:548:LEU:C	11:a9:551:PRO:HD2	2.37	0.49
11:a9:582:MET:O	11:a9:582:MET:HG2	2.12	0.49
11:a9:801:ASN:ND2	11:a9:801:ASN:C	2.71	0.49
11:aA:398:GLN:HE21	11:aA:505:PRO:HB2	1.77	0.49
11:aA:558:VAL:O	11:aA:560:SER:N	2.45	0.49
11:aA:595:ARG:HG3	11:aA:596:THR:C	2.36	0.49
11:aA:710:THR:HA	11:aA:807:GLN:CB	2.43	0.49
2:I1:138:VAL:HG12	2:I1:138:VAL:O	2.11	0.49
5:N1:21:ALA:HA	5:N1:42:SER:O	2.11	0.49
1:A:73:TYR:OH	10:k5:162:TRP:CZ2	2.66	0.49
2:AA:60:TYR:CE1	2:AA:73:GLY:HA3	2.48	0.49
3:LA:52:ILE:CG1	3:LA:87:GLU:HA	2.42	0.49
4:MA:185:ALA:N	12:VA:201:CYC:HBA2	2.28	0.49
2:OA:64:PRO:C	2:OA:66:LEU:N	2.71	0.49
3:R1:88:ILE:HG21	12:R1:201:CYC:HAB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H3:52:ILE:HD11	3:H3:87:GLU:HA	1.95	0.49
12:H3:202:CYC:HB	12:H3:202:CYC:CMA	2.25	0.49
12:H3:202:CYC:OB	11:a9:776:TYR:HB2	2.12	0.49
3:J3:84:ARG:NE	11:a9:668:TYR:HB3	2.28	0.49
6:M2:35:GLY:HA2	8:O5:78:THR:HG22	1.95	0.49
3:B4:85:ASP:CB	12:B4:202:CYC:HBC3	2.43	0.49
3:L3:104:VAL:HB	3:L3:108:ARG:CZ	2.34	0.49
12:P3:201:CYC:HB	12:P3:201:CYC:CMA	2.25	0.49
3:L4:52:ILE:HD11	3:L4:87:GLU:HA	1.95	0.49
3:O4:52:ILE:HD11	3:O4:87:GLU:HA	1.95	0.49
8:M5:65:VAL:CG2	8:M5:66:VAL:N	2.75	0.49
8:M5:90:ARG:HB2	1:N5:18:TYR:CZ	2.48	0.49
8:O5:130:VAL:HG12	8:O5:157:VAL:HG23	1.95	0.49
5:Z4:37:HIS:CE1	12:Z4:301:CYC:CHA	2.95	0.49
1:D5:75:THR:HG22	8:E5:112:VAL:HG23	1.86	0.49
12:D5:201:CYC:CMA	12:D5:201:CYC:NB	2.74	0.49
1:R5:64:ASP:HB3	10:k5:704:THR:HG21	1.94	0.49
6:M6:249:ARG:CB	12:H6:201:CYC:O1D	2.61	0.49
8:A7:130:VAL:HG12	8:A7:157:VAL:HG23	1.95	0.49
9:z5:6:LYS:HB3	9:z5:55:LYS:N	2.28	0.49
10:j5:26:ASN:ND2	10:j5:267:ASP:OD1	2.46	0.49
10:j5:238:ARG:CD	10:j5:238:ARG:C	2.86	0.49
10:j5:804:GLU:CD	9:w7:30:LYS:HE2	2.37	0.49
10:k5:190:LEU:HD21	12:k5:1201:CYC:C4D	2.42	0.49
10:k5:284:PRO:CD	10:k5:326:GLY:HA3	2.23	0.49
10:k5:301:TYR:HE1	10:k5:337:LEU:HD21	1.78	0.49
10:k5:871:GLU:O	10:k5:871:GLU:HG2	2.12	0.49
10:k5:909:ASP:OD1	10:k5:909:ASP:N	2.46	0.49
8:S7:65:VAL:CG2	8:S7:66:VAL:N	2.75	0.49
8:E7:39:ILE:HG12	8:E7:145:ASP:HB3	1.95	0.49
8:G7:57:GLN:O	8:G7:61:ILE:HD13	2.12	0.49
8:I7:2:SER:CA	8:I7:100:ASP:HB3	2.43	0.49
8:M7:39:ILE:HG12	8:M7:145:ASP:HB3	1.95	0.49
8:i7:95:GLY:C	8:i7:152:TYR:CD2	2.87	0.49
8:i7:130:VAL:O	8:i7:130:VAL:HG12	2.10	0.49
8:c7:15:ALA:C	1:d7:90:ARG:NH2	2.55	0.49
2:A8:138:VAL:O	2:A8:138:VAL:HG12	2.11	0.49
8:o7:42:THR:HG21	8:o7:141:LEU:HD23	1.95	0.49
8:o7:94:TYR:CE1	1:p7:18:TYR:HA	2.47	0.49
8:o7:128:GLU:OE1	8:o7:128:GLU:HA	2.13	0.49
8:q7:65:VAL:CG2	8:q7:66:VAL:N	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u7:42:THR:HG21	8:u7:141:LEU:HD23	1.95	0.49
4:M8:98:ASP:C	3:Q8:108:ARG:HG3	2.38	0.49
3:L9:112:GLY:C	11:a9:532:ALA:CB	2.79	0.49
4:M9:133:ARG:CB	12:R9:201:CYC:HBA2	2.35	0.49
2:A9:114:ARG:NH1	11:a9:407:GLU:OE1	2.26	0.49
12:F9:301:CYC:HB	12:F9:301:CYC:CMA	2.26	0.49
3:T9:52:ILE:HD11	3:T9:87:GLU:HA	1.95	0.49
12:V9:201:CYC:CMA	12:V9:201:CYC:HB	2.25	0.49
3:X9:88:ILE:HG21	12:X9:201:CYC:HAB2	1.95	0.49
11:aA:90:GLN:C	11:aA:92:LYS:N	2.70	0.49
11:aA:742:GLN:OE1	3:L1:88:ILE:HD11	2.01	0.49
3:H1:84:ARG:HH22	12:H1:201:CYC:C1A	2.26	0.49
12:Z1:202:CYC:HB	12:Z1:202:CYC:CMA	2.25	0.49
3:BA:119:ALA:HB2	4:MA:41:ASN:HD21	1.76	0.48
12:JA:202:CYC:CBB	11:aA:516:GLN:O	2.61	0.48
4:MA:181:GLN:HA	4:MA:266:LEU:HD23	1.95	0.48
5:NA:54:LEU:CD1	12:TA:301:CYC:C1B	2.89	0.48
2:QA:30:ARG:HD3	2:QA:30:ARG:C	2.39	0.48
2:QA:119:THR:CG2	3:TA:83:LEU:CD2	2.61	0.48
2:WA:138:VAL:HG12	2:WA:138:VAL:O	2.11	0.48
12:O1:201:CYC:OB	3:R1:74:TYR:CD1	2.66	0.48
3:P1:52:ILE:HD11	3:P1:87:GLU:HA	1.95	0.48
3:J3:88:ILE:HG21	12:J3:202:CYC:HAB2	1.95	0.48
2:K3:14:SER:CB	11:a9:746:TYR:HB2	2.35	0.48
12:B3:202:CYC:CMA	12:B3:202:CYC:HB	2.26	0.48
12:Z3:201:CYC:HB	12:Z3:201:CYC:CMA	2.25	0.48
4:M3:232:VAL:HG11	3:V3:109:CYS:O	2.12	0.48
2:O3:30:ARG:HD3	2:O3:30:ARG:C	2.38	0.48
3:B1:85:ASP:CG	12:B1:202:CYC:NA	2.71	0.48
3:J4:88:ILE:HG21	12:J4:201:CYC:HAB2	1.95	0.48
4:M4:100:SER:O	2:P4:13:ASP:CB	2.61	0.48
4:M4:224:PHE:O	12:M4:301:CYC:HAD2	2.13	0.48
3:Q4:82:CYS:HA	12:Z4:301:CYC:CAC	2.38	0.48
3:Q4:120:LEU:HD12	5:Z4:40:SER:N	2.20	0.48
8:M5:39:ILE:HG12	8:M5:145:ASP:HB3	1.95	0.48
8:M5:130:VAL:HG12	8:M5:157:VAL:HG23	1.95	0.48
8:A5:65:VAL:CG2	8:A5:66:VAL:N	2.75	0.48
1:B5:87:TYR:CZ	9:z5:19:THR:O	2.63	0.48
8:C5:26:ILE:O	8:C5:26:ILE:HG12	2.13	0.48
8:C5:37:LEU:HD22	1:D5:27:LEU:HD12	1.95	0.48
8:C5:95:GLY:N	8:C5:104:ILE:HD11	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G5:106:GLU:OE1	10:j5:557:VAL:HG23	2.13	0.48
12:d5:201:CYC:HBB2	10:j5:353:ASN:HB2	1.94	0.48
8:e5:57:GLN:O	8:e5:61:ILE:HD13	2.12	0.48
8:W5:4:LEU:HD21	8:W5:26:ILE:HD13	1.93	0.48
8:W5:39:ILE:HG12	8:W5:145:ASP:HB3	1.95	0.48
8:Y5:114:GLU:CD	10:k5:312:TYR:C	2.81	0.48
10:j5:277:ILE:CA	10:j5:284:PRO:HA	2.43	0.48
10:j5:284:PRO:CD	10:j5:326:GLY:HA3	2.23	0.48
10:j5:619:GLU:HB2	10:j5:620:PRO:CD	2.39	0.48
10:j5:755:GLN:HB3	10:j5:879:ASP:HB2	1.95	0.48
10:k5:919:ILE:HG22	10:k5:919:ILE:O	2.13	0.48
2:A6:64:PRO:C	2:A6:66:LEU:N	2.71	0.48
3:B6:52:ILE:HD11	3:B6:87:GLU:HA	1.95	0.48
3:D1:88:ILE:HG21	12:D1:202:CYC:HAB2	1.95	0.48
8:I7:40:ALA:HB2	8:I7:97:VAL:HG13	1.95	0.48
8:c7:112:VAL:HG12	8:c7:113:LYS:H	1.78	0.48
8:m7:40:ALA:HB2	8:m7:97:VAL:HG13	1.95	0.48
8:o7:23:LEU:CA	1:p7:38:VAL:HG21	2.43	0.48
8:s7:2:SER:CA	8:s7:100:ASP:HB3	2.43	0.48
8:u7:80:LEU:HD12	12:u7:201:CYC:C3D	2.43	0.48
8:u7:128:GLU:HA	8:u7:128:GLU:OE1	2.13	0.48
3:J8:108:ARG:CZ	11:a9:171:ARG:HA	2.43	0.48
2:N8:30:ARG:HD3	2:N8:30:ARG:C	2.38	0.48
3:Q8:117:TYR:CA	3:Q8:120:LEU:HG	2.42	0.48
3:L9:108:ARG:HA	11:a9:531:ASP:CB	2.43	0.48
2:Q9:30:ARG:HD3	2:Q9:30:ARG:C	2.39	0.48
2:A9:64:PRO:C	2:A9:66:LEU:N	2.71	0.48
3:J9:68:ARG:HB3	11:a9:353:ALA:HB2	1.94	0.48
11:a9:490:ILE:N	11:a9:490:ILE:HD13	2.26	0.48
11:aA:70:ALA:N	11:aA:71:ILE:HD11	2.28	0.48
11:aA:308:LEU:CD2	11:aA:308:LEU:C	2.85	0.48
11:aA:319:LEU:O	11:aA:322:ALA:HB3	2.11	0.48
11:aA:371:VAL:HG11	11:aA:507:PHE:CG	2.47	0.48
11:aA:668:TYR:CG	3:J1:84:ARG:HD3	2.47	0.48
4:M1:230:GLN:CG	4:M1:231:THR:O	2.61	0.48
4:M1:252:LEU:HD13	3:X1:77:ARG:NH1	2.28	0.48
2:CA:138:VAL:O	2:CA:138:VAL:HG12	2.11	0.48
2:GA:119:THR:CG2	3:LA:83:LEU:CD1	2.86	0.48
3:HA:120:LEU:HD13	12:HA:202:CYC:CHA	2.43	0.48
4:MA:230:GLN:HG2	4:MA:231:THR:O	2.13	0.48
3:XA:88:ILE:HG21	12:XA:201:CYC:HAB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G3:107:ASP:N	3:L3:77:ARG:NH2	2.60	0.48
3:H3:88:ILE:HG21	12:H3:202:CYC:HAB2	1.96	0.48
2:A4:60:TYR:CE1	2:A4:73:GLY:HA3	2.47	0.48
3:P3:88:ILE:HG21	12:P3:201:CYC:HAB2	1.95	0.48
2:Y3:30:ARG:HD3	2:Y3:30:ARG:C	2.39	0.48
3:S4:52:ILE:HD11	3:S4:87:GLU:HA	1.95	0.48
2:V4:30:ARG:HD3	2:V4:30:ARG:C	2.39	0.48
3:H4:108:ARG:NE	11:aA:97:ALA:HB2	2.28	0.48
3:Q4:103:SER:C	3:Q4:105:LEU:H	2.20	0.48
1:L5:106:GLU:HG3	9:i5:58:THR:HG22	1.93	0.48
8:O5:19:SER:O	8:O5:23:LEU:HB2	2.13	0.48
8:A5:107:ILE:HG21	1:B5:13:ASP:OD1	2.13	0.48
8:A5:130:VAL:HG12	8:A5:157:VAL:HG23	1.96	0.48
1:B5:76:ARG:CG	9:z5:14:LEU:O	2.61	0.48
8:C5:18:LEU:H	8:C5:18:LEU:HD12	1.78	0.48
8:I5:27:LYS:O	8:I5:29:PHE:C	2.56	0.48
8:I5:37:LEU:HD22	1:J5:27:LEU:HD12	1.95	0.48
8:e5:2:SER:CA	8:e5:100:ASP:HB3	2.43	0.48
8:e5:40:ALA:HB2	8:e5:97:VAL:HG13	1.95	0.48
8:Y5:130:VAL:HG12	8:Y5:157:VAL:HG23	1.95	0.48
2:K6:33:ARG:CG	2:A6:25:GLN:HG2	2.39	0.48
6:M6:65:VAL:HG11	1:b7:60:LEU:CA	2.43	0.48
10:j5:71:ALA:HB1	10:j5:202:ALA:HB1	1.95	0.48
10:j5:755:GLN:H	10:j5:879:ASP:HB2	1.78	0.48
10:j5:863:ILE:O	10:j5:863:ILE:HG22	2.11	0.48
10:j5:990:ARG:HG2	8:g7:110:ILE:HD12	1.94	0.48
10:k5:547:ARG:C	10:k5:547:ARG:CD	2.85	0.48
10:k5:750:ARG:NH1	10:k5:750:ARG:CG	2.74	0.48
10:k5:935:LEU:CD1	1:D7:25:ASP:O	2.55	0.48
2:A6:59:VAL:HG12	2:A6:66:LEU:HD13	1.95	0.48
2:A6:60:TYR:CE1	2:A6:73:GLY:HA3	2.47	0.48
8:Q7:22:GLU:H	8:C7:6:LYS:HZ3	1.60	0.48
8:K7:4:LEU:HD21	8:K7:26:ILE:HD13	1.93	0.48
8:i7:89:LEU:HD13	8:i7:153:PHE:CE1	2.48	0.48
8:i7:141:LEU:CD1	8:i7:146:ALA:HA	2.43	0.48
12:T7:201:CYC:CMA	12:T7:201:CYC:NB	2.74	0.48
8:U7:21:GLY:HA2	8:U7:24:ASP:OD2	2.12	0.48
8:W7:128:GLU:HA	8:W7:128:GLU:OE1	2.13	0.48
8:Y7:65:VAL:CG2	8:Y7:66:VAL:N	2.76	0.48
8:c7:141:LEU:CD1	8:c7:146:ALA:HA	2.43	0.48
8:e7:151:PHE:HB3	8:q7:20:PRO:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A8:60:TYR:CE1	2:A8:73:GLY:HA3	2.47	0.48
8:m7:19:SER:O	8:m7:20:PRO:C	2.56	0.48
2:X8:67:THR:O	3:T9:28:THR:HG23	2.13	0.48
4:M8:128:ALA:HB3	4:M8:142:PHE:CZ	2.49	0.48
4:M8:176:ARG:HG2	4:M8:176:ARG:O	2.13	0.48
2:N8:34:ALA:HB3	3:O8:31:VAL:CG1	2.39	0.48
2:N8:59:VAL:HG12	2:N8:66:LEU:HD13	1.95	0.48
2:N8:64:PRO:C	2:N8:66:LEU:N	2.71	0.48
3:Q8:81:ALA:CB	5:Z8:36:THR:HG21	2.43	0.48
3:L9:41:VAL:HG21	3:L9:98:LEU:HB2	1.95	0.48
12:L9:202:CYC:CMA	12:L9:202:CYC:HB	2.25	0.48
5:N9:54:LEU:HD12	12:T9:301:CYC:C1B	2.33	0.48
2:O9:60:TYR:CE1	2:O9:73:GLY:HA3	2.47	0.48
2:K9:11:SER:O	2:K9:15:GLN:HB2	2.13	0.48
11:a9:70:ALA:N	11:a9:71:ILE:CD1	2.76	0.48
11:a9:710:THR:HA	11:a9:807:GLN:CB	2.43	0.48
11:aA:598:SER:CB	11:aA:599:PRO:CD	2.91	0.48
4:M1:176:ARG:HH11	4:M1:176:ARG:HG2	1.74	0.48
12:X1:201:CYC:HB	12:X1:201:CYC:CMA	2.26	0.48
1:A:16:GLY:O	8:a5:90:ARG:NE	2.46	0.48
12:A:201:CYC:HBB2	10:k5:256:LEU:HD11	1.94	0.48
3:DA:52:ILE:HD11	3:DA:87:GLU:HA	1.95	0.48
12:DA:201:CYC:HBB2	4:MA:6:THR:CG2	2.43	0.48
3:RA:52:ILE:HD11	3:RA:87:GLU:HA	1.95	0.48
12:TA:301:CYC:HB	12:TA:301:CYC:CMA	2.25	0.48
2:O1:30:ARG:HD3	2:O1:30:ARG:C	2.38	0.48
2:O1:59:VAL:HG12	2:O1:66:LEU:HD13	1.96	0.48
12:H2:201:CYC:O1D	6:M2:249:ARG:CB	2.61	0.48
12:L2:201:CYC:HB	12:L2:201:CYC:CMA	2.25	0.48
6:M2:65:VAL:CG1	1:h7:59:ALA:O	2.57	0.48
2:C3:30:ARG:HD3	2:C3:30:ARG:C	2.39	0.48
2:U3:30:ARG:HD3	2:U3:30:ARG:C	2.38	0.48
4:M4:144:ARG:HH12	5:Z4:59:ARG:NH2	2.03	0.48
4:M4:230:GLN:HG2	4:M4:231:THR:O	2.13	0.48
2:N4:31:PHE:CD2	3:O4:34:SER:HB2	2.49	0.48
3:O4:106:GLU:O	3:O4:111:ASN:CG	2.56	0.48
12:O4:202:CYC:HC	12:O4:202:CYC:HMD3	1.78	0.48
3:Q4:120:LEU:HD11	5:Z4:39:PRO:CA	2.43	0.48
12:K5:201:CYC:O1D	1:J5:62:TYR:HE1	1.94	0.48
8:A5:88:TYR:CZ	12:A5:201:CYC:HMB3	2.48	0.48
12:B5:201:CYC:HBA1	9:z5:26:THR:HG23	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:E5:113:LYS:O	8:E5:117:ASN:ND2	2.46	0.48
8:E5:131:ARG:HG3	8:E5:157:VAL:HG21	1.95	0.48
8:G5:100:ASP:OD1	8:S5:20:PRO:HB3	2.05	0.48
8:I5:4:LEU:CD2	8:I5:4:LEU:C	2.84	0.48
2:C1:30:ARG:C	2:C1:30:ARG:HD3	2.39	0.48
8:c5:14:GLU:OE2	10:j5:393:MET:CA	2.61	0.48
1:R5:86:ASP:O	1:R5:90:ARG:HG3	2.12	0.48
8:U5:2:SER:CA	8:U5:100:ASP:HB3	2.43	0.48
8:Y5:14:GLU:OE2	10:k5:393:MET:HG3	2.12	0.48
8:a5:19:SER:HB3	8:a5:22:GLU:HB2	1.94	0.48
8:a5:40:ALA:HB2	8:a5:97:VAL:HG13	1.96	0.48
8:a5:95:GLY:N	8:a5:104:ILE:HD11	2.27	0.48
12:L6:202:CYC:C4B	2:A6:33:ARG:NH1	2.44	0.48
6:M6:47:TYR:CE2	8:c7:48:GLU:HG2	2.48	0.48
10:j5:241:ALA:O	10:j5:243:ALA:N	2.44	0.48
10:j5:725:LEU:CD2	8:K7:83:ARG:HD3	2.43	0.48
10:k5:238:ARG:C	10:k5:238:ARG:NE	2.72	0.48
10:k5:277:ILE:CA	10:k5:284:PRO:HA	2.43	0.48
10:k5:851:HIS:ND1	10:k5:851:HIS:C	2.71	0.48
10:k5:1057:LYS:O	10:k5:1061:LEU:HG	2.12	0.48
10:k5:1067:LEU:HD22	10:k5:1067:LEU:HA	1.70	0.48
10:k5:1119:LEU:CD1	12:k5:1204:CYC:HBB2	2.43	0.48
8:O7:44:THR:OG1	1:P7:18:TYR:HD2	1.91	0.48
8:K7:39:ILE:HG12	8:K7:145:ASP:HB3	1.95	0.48
8:g7:57:GLN:O	8:g7:61:ILE:HD13	2.12	0.48
8:g7:130:VAL:HG12	8:g7:157:VAL:HG23	1.95	0.48
1:h7:76:ARG:HA	8:i7:110:ILE:O	2.13	0.48
8:U7:40:ALA:HB2	8:U7:97:VAL:HG13	1.96	0.48
8:Y7:118:SER:HB2	1:d7:82:ILE:HD12	1.95	0.48
8:c7:54:ALA:HB2	8:c7:133:MET:CA	2.42	0.48
8:e7:17:TYR:CD2	1:f7:45:SER:HB3	2.48	0.48
8:e7:130:VAL:HG12	8:e7:157:VAL:HG23	1.96	0.48
2:A8:30:ARG:HD3	2:A8:30:ARG:C	2.39	0.48
8:o7:8:ILE:CD1	1:p7:98:ALA:HB2	2.44	0.48
8:o7:97:VAL:HG22	1:p7:19:LEU:HD12	1.91	0.48
8:s7:19:SER:O	8:s7:20:PRO:C	2.56	0.48
3:H8:120:LEU:N	11:a9:266:ASN:CG	2.72	0.48
3:H8:120:LEU:N	11:a9:266:ASN:ND2	2.61	0.48
2:I8:138:VAL:O	2:I8:138:VAL:HG12	2.12	0.48
2:N8:115:GLU:OE1	5:Z8:33:GLY:CA	2.56	0.48
3:Q8:84:ARG:HG3	5:Z8:31:TRP:CD2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q8:110:LEU:CD2	3:Q8:170:SER:HB3	2.28	0.48
3:F1:52:ILE:HD11	3:F1:87:GLU:HA	1.95	0.48
3:F1:88:ILE:HG21	12:F1:201:CYC:HAB2	1.95	0.48
4:M9:38:PRO:HB2	3:B9:113:LEU:HA	1.95	0.48
2:O9:52:VAL:CG1	2:O9:83:ALA:HA	2.43	0.48
3:Y8:103:SER:O	3:Y8:107:ASP:HB2	2.13	0.48
2:I9:5:ILE:HG21	3:J9:99:ALA:HA	1.94	0.48
11:a9:643:LEU:CD1	11:a9:689:VAL:HG23	2.42	0.48
11:aA:68:THR:O	11:aA:69:ARG:HG3	2.14	0.48
11:aA:816:LEU:CD2	11:aA:816:LEU:C	2.85	0.48
12:aA:901:CYC:HAB2	3:J1:88:ILE:HG21	1.95	0.48
3:H1:88:ILE:HG21	12:H1:201:CYC:CAB	2.42	0.48
4:M1:176:ARG:HG2	4:M1:176:ARG:O	2.13	0.48
2:A2:59:VAL:HG12	2:A2:66:LEU:HD13	1.95	0.48
12:D2:201:CYC:HB	12:D2:201:CYC:CMA	2.26	0.48
3:BA:113:LEU:HA	4:MA:38:PRO:HB2	1.95	0.48
3:HA:52:ILE:HD11	3:HA:87:GLU:HA	1.95	0.48
3:JA:52:ILE:HD11	3:JA:87:GLU:HA	1.95	0.48
2:KA:11:SER:O	2:KA:15:GLN:HB2	2.13	0.48
4:MA:51:ARG:HB3	4:MA:51:ARG:NH1	2.23	0.48
4:MA:94:TRP:CH2	5:NA:29:HIS:CE1	3.01	0.48
2:QA:32:GLN:OE1	2:UA:32:GLN:OE1	2.32	0.48
3:TA:88:ILE:HG21	12:TA:301:CYC:HAB2	1.95	0.48
12:XA:201:CYC:HB	12:XA:201:CYC:CMA	2.25	0.48
2:A1:52:VAL:CG1	2:A1:83:ALA:HA	2.44	0.48
3:J3:77:ARG:HH21	2:K3:106:ASP:C	2.22	0.48
12:J3:202:CYC:CMA	12:J3:202:CYC:HB	2.26	0.48
12:J3:202:CYC:HAA1	11:a9:800:THR:HB	1.95	0.48
2:I2:118:ARG:HH22	6:M2:118:GLU:CD	2.19	0.48
4:M3:14:LEU:N	4:M3:14:LEU:CD1	2.77	0.48
4:M3:176:ARG:HH11	4:M3:176:ARG:HG3	1.78	0.48
3:R3:52:ILE:HD11	3:R3:87:GLU:HA	1.95	0.48
3:T3:52:ILE:HD11	3:T3:87:GLU:HA	1.95	0.48
3:V3:21:GLU:HG2	2:Q9:64:PRO:HB3	1.95	0.48
4:M4:148:LYS:CD	4:M4:197:ASP:OD1	2.61	0.48
4:M4:228:SER:OG	2:X4:16:GLY:O	2.31	0.48
2:N4:5:ILE:HG21	3:O4:99:ALA:HA	1.96	0.48
2:N4:52:VAL:CG1	2:N4:83:ALA:HA	2.43	0.48
8:K5:4:LEU:HD23	8:K5:26:ILE:CD1	2.38	0.48
3:Y4:89:ILE:C	3:Y4:92:TYR:CE2	2.82	0.48
5:Z4:23:SER:OG	5:Z4:25:THR:CB	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:10:ASN:OD1	10:k5:557:VAL:CA	2.53	0.48
1:D5:62:TYR:OH	12:E5:201:CYC:CGD	2.61	0.48
8:I5:4:LEU:O	8:I5:4:LEU:HD23	2.14	0.48
1:V5:118:SER:OG	10:j5:498:ALA:CB	2.61	0.48
12:J6:201:CYC:HC	12:J6:201:CYC:HMD3	1.78	0.48
12:J6:202:CYC:HMA3	6:M6:160:ASN:HD21	1.77	0.48
10:j5:743:VAL:N	12:J7:201:CYC:CGD	2.67	0.48
10:j5:829:VAL:O	10:j5:829:VAL:HG12	2.12	0.48
10:k5:85:SER:HB2	10:k5:157:ILE:HG21	1.95	0.48
10:k5:213:LEU:HD12	10:k5:213:LEU:H	1.79	0.48
10:k5:776:PHE:O	10:k5:777:ASP:CB	2.59	0.48
10:k5:949:ARG:NH2	10:k5:954:GLU:OE2	2.45	0.48
1:R7:53:LYS:HZ2	8:M7:120:GLN:CD	2.20	0.48
8:S7:57:GLN:O	8:S7:61:ILE:HD13	2.12	0.48
8:G7:39:ILE:HG12	8:G7:145:ASP:HB3	1.95	0.48
8:G7:65:VAL:CG2	8:G7:66:VAL:N	2.76	0.48
8:G7:130:VAL:HG12	8:G7:157:VAL:HG23	1.95	0.48
1:J7:53:LYS:HZ2	8:K7:120:GLN:CD	2.22	0.48
8:k7:66:VAL:O	11:a9:65:LEU:CD2	2.60	0.48
8:U7:130:VAL:HG12	8:U7:157:VAL:HG23	1.96	0.48
8:c7:54:ALA:HB3	8:c7:133:MET:HG3	1.85	0.48
8:e7:65:VAL:CG2	8:e7:66:VAL:N	2.76	0.48
3:B8:68:ARG:HH12	3:U8:68:ARG:CZ	2.26	0.48
8:o7:4:LEU:CD1	1:p7:30:TYR:CZ	2.93	0.48
8:o7:39:ILE:HD11	8:o7:145:ASP:HA	1.95	0.48
12:r7:201:CYC:HMD1	12:r7:201:CYC:NC	2.09	0.48
9:y7:9:ALA:HB2	9:y7:44:ILE:CD1	2.42	0.48
2:X8:138:VAL:HG12	2:X8:138:VAL:O	2.12	0.48
4:M8:14:LEU:N	4:M8:14:LEU:CD1	2.77	0.48
4:M8:102:VAL:HG12	4:M8:106:ILE:HD11	1.95	0.48
2:N8:31:PHE:CD2	3:O8:34:SER:HB2	2.49	0.48
3:F1:119:ALA:HB3	4:M1:41:ASN:ND2	2.27	0.48
4:M9:185:ALA:N	12:V9:201:CYC:HBA2	2.28	0.48
4:M9:211:GLN:O	5:N9:28:HIS:CE1	2.64	0.48
4:M9:230:GLN:HG2	4:M9:231:THR:O	2.13	0.48
2:O9:34:ALA:CB	3:P9:31:VAL:HG21	2.44	0.48
2:O9:64:PRO:C	2:O9:66:LEU:N	2.71	0.48
3:F9:150:ARG:NH1	12:F9:302:CYC:C2C	2.71	0.48
2:I9:138:VAL:O	2:I9:138:VAL:HG12	2.11	0.48
3:J9:65:ASP:HB2	11:a9:354:VAL:HG21	1.76	0.48
3:J9:88:ILE:HG21	12:J9:202:CYC:HAB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:598:SER:CB	11:a9:599:PRO:CD	2.91	0.48
4:M1:33:LEU:O	4:M1:33:LEU:HD13	2.13	0.48
5:N1:15:LEU:O	5:N1:73:GLY:CA	2.61	0.48
3:T1:52:ILE:HD11	3:T1:87:GLU:HA	1.95	0.48
3:Z1:88:ILE:HG21	12:Z1:202:CYC:HAB2	1.95	0.48
2:A2:64:PRO:C	2:A2:66:LEU:N	2.71	0.48
3:DA:88:ILE:HG21	12:DA:201:CYC:HAB2	1.95	0.48
3:HA:123:PRO:HG2	12:HA:202:CYC:CMC	2.44	0.48
3:LA:41:VAL:HG21	3:LA:98:LEU:HB2	1.95	0.48
2:QA:145:GLN:OE1	12:VA:202:CYC:CHB	2.62	0.48
12:QA:201:CYC:CBA	3:TA:79:MET:HE1	2.44	0.48
12:P1:201:CYC:HB	12:P1:201:CYC:CMA	2.25	0.48
3:J2:88:ILE:HG21	12:J2:202:CYC:HAB2	1.95	0.48
2:A3:30:ARG:HD3	2:A3:30:ARG:C	2.39	0.48
3:F3:88:ILE:HG21	12:F3:201:CYC:HAB2	1.95	0.48
3:B4:68:ARG:HH12	3:U4:68:ARG:CZ	2.26	0.48
3:B4:92:TYR:CZ	12:B4:202:CYC:HAB2	2.49	0.48
3:D4:88:ILE:HG21	12:D4:202:CYC:HAB2	1.95	0.48
4:M3:184:ILE:HA	4:M3:184:ILE:HD13	1.65	0.48
3:S4:108:ARG:O	12:S4:202:CYC:CBB	2.54	0.48
3:U4:115:GLU:HB2	4:M4:74:LEU:CG	2.39	0.48
4:M4:251:ASN:H	4:M4:251:ASN:ND2	1.95	0.48
1:N5:107:ARG:CZ	10:k5:482:GLN:OE1	2.61	0.48
8:A5:103:PRO:CA	10:k5:557:VAL:CG2	2.88	0.48
8:I5:26:ILE:O	8:I5:26:ILE:HG12	2.13	0.48
8:c5:94:TYR:OH	1:d5:17:LYS:O	2.24	0.48
8:e5:130:VAL:HG12	8:e5:157:VAL:HG23	1.96	0.48
12:T5:201:CYC:CBB	10:j5:482:GLN:HE22	1.99	0.48
8:U5:82:LEU:CD1	6:M6:34:ARG:HB3	2.44	0.48
8:a5:130:VAL:HG12	8:a5:157:VAL:HG23	1.96	0.48
6:M6:42:VAL:HG11	8:c7:56:ASP:OD1	2.13	0.48
12:N6:101:CYC:HB	12:N6:101:CYC:CMA	2.25	0.48
9:z5:6:LYS:HG2	9:z5:55:LYS:HB2	1.85	0.48
10:j5:558:VAL:O	10:j5:559:THR:C	2.57	0.48
10:j5:929:PRO:CG	1:J7:147:LYS:CG	2.87	0.48
10:j5:951:MET:HE2	10:j5:955:LEU:HD11	1.96	0.48
10:k5:26:ASN:ND2	10:k5:267:ASP:OD1	2.46	0.48
10:k5:71:ALA:HB1	10:k5:202:ALA:HB1	1.95	0.48
10:k5:275:THR:HG23	10:k5:286:VAL:CG1	2.32	0.48
10:k5:829:VAL:O	10:k5:829:VAL:HG12	2.13	0.48
10:k5:844:GLN:C	10:k5:846:GLU:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:1017:ARG:C	10:k5:1018:LEU:HG	2.39	0.48
12:k5:1202:CYC:HMA3	12:k5:1202:CYC:NB	2.29	0.48
12:D1:202:CYC:HAA1	4:M1:52:LEU:HD13	1.96	0.48
1:P7:14:VAL:O	1:N7:68:PRO:C	2.57	0.48
1:R7:53:LYS:HZ1	8:M7:120:GLN:CG	2.26	0.48
1:B7:68:PRO:C	1:D7:14:VAL:O	2.57	0.48
8:I7:20:PRO:HB3	8:W7:151:PHE:CZ	2.48	0.48
8:i7:43:LEU:HD13	8:i7:141:LEU:HD21	1.94	0.48
8:i7:57:GLN:O	8:i7:61:ILE:HD13	2.12	0.48
8:c7:126:VAL:CG2	12:c7:201:CYC:CMC	2.91	0.48
2:E1:30:ARG:HD3	2:E1:30:ARG:C	2.39	0.48
2:A8:59:VAL:HG12	2:A8:66:LEU:HD13	1.96	0.48
2:A8:64:PRO:C	2:A8:66:LEU:N	2.71	0.48
12:D8:202:CYC:CMA	12:D8:202:CYC:HB	2.26	0.48
8:o7:80:LEU:HD12	12:o7:201:CYC:C3D	2.43	0.48
9:w7:15:LYS:HD2	9:w7:15:LYS:C	2.38	0.48
3:F8:109:CYS:O	4:M8:6:THR:CG2	2.61	0.48
3:F8:110:LEU:HA	3:F8:113:LEU:HB2	1.94	0.48
3:L8:78:ARG:O	12:a9:901:CYC:HMD1	2.13	0.48
4:M8:141:GLU:OE1	4:M8:141:GLU:HA	2.13	0.48
4:M9:233:GLU:HG2	4:M9:233:GLU:O	2.13	0.48
5:N9:3:VAL:HG11	3:R9:115:GLU:HB3	1.93	0.48
2:O9:31:PHE:CD2	3:P9:34:SER:HB2	2.49	0.48
5:Z8:41:GLN:HB2	12:Z8:301:CYC:HMB1	1.90	0.48
5:Z8:66:ARG:CB	5:Z8:66:ARG:HH11	2.22	0.48
3:T9:88:ILE:HG21	12:T9:301:CYC:HAB2	1.95	0.48
12:X9:201:CYC:HB	12:X9:201:CYC:CMA	2.25	0.48
11:a9:245:ALA:HB3	12:a9:901:CYC:HBB3	1.80	0.48
11:a9:523:GLN:HE22	11:a9:548:LEU:HD13	1.73	0.48
11:aA:106:LEU:C	11:aA:106:LEU:CD2	2.85	0.48
11:aA:821:ARG:NH1	3:L1:120:LEU:O	2.47	0.48
3:H1:78:ARG:HG2	12:H1:201:CYC:CMD	2.43	0.48
2:Y1:30:ARG:HD3	2:Y1:30:ARG:C	2.39	0.48
2:AA:59:VAL:HG12	2:AA:66:LEU:HD13	1.96	0.48
3:DA:115:GLU:CG	4:MA:78:GLY:HA2	2.44	0.48
12:HA:202:CYC:OB	11:aA:448:ASN:CB	2.61	0.48
3:LA:111:ASN:CG	11:aA:366:LEU:CD1	2.86	0.48
4:MA:233:GLU:HG2	4:MA:233:GLU:O	2.13	0.48
5:NA:15:LEU:O	5:NA:73:GLY:CA	2.61	0.48
2:OA:34:ALA:CB	3:PA:31:VAL:HG21	2.44	0.48
2:WA:30:ARG:HD3	2:WA:30:ARG:C	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L2:75:PRO:HG2	3:L2:78:ARG:CG	2.40	0.48
3:L2:125:ARG:NE	1:h7:69:GLY:O	2.47	0.48
2:A3:5:ILE:HG21	3:B3:99:ALA:HA	1.96	0.48
2:A4:34:ALA:CB	3:B4:31:VAL:HG11	2.39	0.48
3:L3:52:ILE:HD11	3:L3:87:GLU:HA	1.96	0.48
2:O3:34:ALA:CB	3:P3:31:VAL:HG21	2.44	0.48
3:R3:88:ILE:HG21	12:R3:201:CYC:HAB2	1.95	0.48
12:V3:201:CYC:HB	12:V3:201:CYC:CMA	2.26	0.48
3:U4:52:ILE:HD11	3:U4:87:GLU:HA	1.95	0.48
3:U4:115:GLU:OE1	4:M4:74:LEU:HD12	2.11	0.48
4:M4:26:SER:CB	11:aA:228:GLU:HG3	2.43	0.48
4:M4:30:TRP:HE1	11:aA:105:GLU:CD	2.22	0.48
4:M4:141:GLU:HG3	4:M4:145:LEU:CD1	2.43	0.48
4:M4:176:ARG:HH11	4:M4:176:ARG:HG3	1.78	0.48
4:M4:226:SER:CB	3:Y4:85:ASP:CA	2.91	0.48
8:K5:39:ILE:HG12	8:K5:145:ASP:HB3	1.95	0.48
8:M5:57:GLN:O	8:M5:61:ILE:HD13	2.12	0.48
8:E5:79:ALA:C	8:E5:81:CYS:H	2.21	0.48
8:I5:18:LEU:H	8:I5:18:LEU:HD12	1.78	0.48
10:j5:77:VAL:O	10:j5:77:VAL:HG23	2.13	0.48
10:j5:844:GLN:C	10:j5:846:GLU:H	2.21	0.48
10:j5:1106:PHE:CE1	10:j5:1112:PRO:HA	2.49	0.48
10:k5:292:GLU:N	10:k5:292:GLU:OE1	2.46	0.48
10:k5:546:PHE:HE1	10:k5:561:GLU:OE1	1.85	0.48
10:k5:951:MET:HE3	10:k5:951:MET:CA	2.43	0.48
10:k5:1143:LEU:HD23	1:l7:10:ASN:HD21	1.78	0.48
3:B6:75:PRO:CB	12:E6:201:CYC:HBB2	2.44	0.48
8:O7:2:SER:CA	8:O7:100:ASP:HB3	2.43	0.48
8:O7:40:ALA:HB2	8:O7:97:VAL:HG13	1.96	0.48
1:D7:76:ARG:HB2	8:E7:110:ILE:HG13	1.95	0.48
8:i7:94:TYR:CE2	1:j7:9:ILE:HG22	2.46	0.48
8:a7:2:SER:CA	8:a7:100:ASP:HB3	2.43	0.48
2:A8:25:GLN:HG2	2:K8:33:ARG:CG	2.39	0.48
2:A8:34:ALA:CB	3:B8:31:VAL:HG21	2.44	0.48
3:B8:109:CYS:HA	4:M8:60:LYS:HZ3	1.77	0.48
12:p7:201:CYC:CMA	12:p7:201:CYC:NB	2.74	0.48
1:r7:68:PRO:CB	1:t7:14:VAL:C	2.67	0.48
9:w7:63:ALA:HB1	9:w7:67:VAL:HG21	1.95	0.48
2:T8:30:ARG:HD3	2:T8:30:ARG:C	2.39	0.48
2:T8:138:VAL:O	2:T8:138:VAL:HG12	2.11	0.48
12:H8:201:CYC:HB	12:H8:201:CYC:CMA	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M8:29:PRO:CG	11:a9:226:PHE:HA	2.41	0.48
4:M8:226:SER:CB	3:Y8:85:ASP:N	2.77	0.48
4:M8:235:PHE:CB	12:M8:301:CYC:HMA1	2.41	0.48
12:M8:301:CYC:CMB	3:Y8:89:ILE:CG1	2.80	0.48
2:N8:112:GLY:CA	5:Z8:33:GLY:C	2.66	0.48
3:Q8:84:ARG:CG	5:Z8:31:TRP:HE1	2.18	0.48
2:R8:138:VAL:O	2:R8:138:VAL:HG12	2.11	0.48
4:M9:78:GLY:HA2	3:D9:115:GLU:CG	2.44	0.48
3:J9:52:ILE:HD11	3:J9:87:GLU:HA	1.95	0.48
3:Z9:52:ILE:HD11	3:Z9:87:GLU:HA	1.95	0.48
11:aA:95:ILE:HD13	11:aA:237:PHE:CD1	2.46	0.48
11:aA:197:ILE:CD1	11:aA:278:LEU:HD22	2.44	0.48
11:aA:595:ARG:HG3	11:aA:596:THR:H	1.79	0.48
11:aA:802:ARG:HB2	3:J1:120:LEU:HD22	1.94	0.48
2:I1:30:ARG:HD3	2:I1:30:ARG:C	2.39	0.48
4:M1:140:ARG:O	4:M1:140:ARG:HG2	2.13	0.48
2:A2:31:PHE:CD2	3:B2:34:SER:HB2	2.49	0.48
2:A2:52:VAL:CG1	2:A2:83:ALA:HA	2.43	0.48
2:E2:30:ARG:HD3	2:E2:30:ARG:C	2.39	0.48
2:AA:31:PHE:CD2	3:BA:34:SER:HB2	2.49	0.48
3:FA:37:ARG:NH2	3:FA:159:GLU:CD	2.58	0.48
3:FA:84:ARG:CZ	4:MA:53:LEU:CD2	2.92	0.48
12:JA:202:CYC:HB	11:aA:512:TYR:CA	2.26	0.48
4:MA:153:LYS:HZ3	2:UA:14:SER:CB	2.26	0.48
2:OA:30:ARG:HD3	2:OA:30:ARG:C	2.39	0.48
2:QA:81:LYS:HZ3	3:TA:67:ILE:HD13	1.79	0.48
3:VA:52:ILE:HD11	3:VA:87:GLU:HA	1.95	0.48
3:H2:52:ILE:HD11	3:H2:87:GLU:HA	1.95	0.48
12:N2:101:CYC:HAB2	3:B2:88:ILE:HG21	1.96	0.48
3:Z3:52:ILE:HD11	3:Z3:87:GLU:HA	1.95	0.48
3:D4:107:ASP:HB3	11:aA:109:ASN:CB	2.42	0.48
5:N3:31:TRP:CG	2:S3:16:GLY:HA3	2.44	0.48
2:O3:34:ALA:CB	3:P3:31:VAL:HG11	2.38	0.48
2:O3:52:VAL:CG1	2:O3:83:ALA:HA	2.43	0.48
3:H4:88:ILE:HG21	12:H4:201:CYC:HAB2	1.95	0.48
3:J4:108:ARG:HH21	11:aA:171:ARG:HB3	1.67	0.48
3:L4:65:ASP:HB2	11:aA:82:GLN:HE22	1.77	0.48
2:N4:30:ARG:C	2:N4:30:ARG:HD3	2.38	0.48
2:N4:59:VAL:HG12	2:N4:66:LEU:HD13	1.95	0.48
8:K5:131:ARG:HG3	8:K5:157:VAL:HG21	1.95	0.48
8:A5:119:LEU:CD2	12:A5:201:CYC:HAA2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:E5:4:LEU:HD21	8:E5:26:ILE:HD13	1.93	0.48
1:R5:64:ASP:CB	10:k5:704:THR:CG2	2.91	0.48
8:A7:23:LEU:HD22	1:B7:38:VAL:HG13	1.94	0.48
10:j5:72:ALA:HB1	10:j5:81:PRO:HB2	1.96	0.48
10:j5:892:ALA:C	10:j5:895:PRO:HD2	2.39	0.48
10:j5:930:LEU:HB3	1:J7:33:THR:HB	1.95	0.48
10:k5:612:ILE:H	10:k5:612:ILE:CD1	2.03	0.48
10:k5:1143:LEU:HD22	1:l7:10:ASN:OD1	2.14	0.48
8:O7:130:VAL:HG12	8:O7:157:VAL:HG23	1.96	0.48
8:C7:130:VAL:HG12	8:C7:157:VAL:HG23	1.96	0.48
12:L7:201:CYC:HMD1	12:L7:201:CYC:NC	2.09	0.48
8:i7:57:GLN:HB2	8:i7:132:ALA:HB1	1.96	0.48
8:Y7:17:TYR:CD2	1:Z7:45:SER:HB3	2.48	0.48
8:Y7:130:VAL:HG12	8:Y7:157:VAL:HG23	1.96	0.48
8:a7:130:VAL:HG12	8:a7:157:VAL:HG23	1.95	0.48
12:b7:201:CYC:CMA	12:b7:201:CYC:NB	2.74	0.48
8:e7:54:ALA:HB2	8:e7:133:MET:HG2	1.96	0.48
8:m7:2:SER:CA	8:m7:100:ASP:HB3	2.43	0.48
8:q7:39:ILE:HG12	8:q7:145:ASP:HB3	1.95	0.48
8:u7:8:ILE:CD1	1:v7:98:ALA:HB2	2.43	0.48
12:W8:201:CYC:HB	12:W8:201:CYC:CMA	2.26	0.48
3:H8:108:ARG:NH2	11:a9:97:ALA:HB2	2.28	0.48
2:K8:30:ARG:HD3	2:K8:30:ARG:C	2.39	0.48
3:L8:71:GLY:H	11:a9:82:GLN:CB	2.27	0.48
4:M8:45:VAL:O	4:M8:45:VAL:HG12	2.14	0.48
4:M8:204:ILE:O	4:M8:204:ILE:HG22	2.14	0.48
4:M8:268:ARG:CZ	3:Y8:111:ASN:HB3	2.44	0.48
12:M8:301:CYC:HBC3	3:Y8:127:VAL:HG22	1.94	0.48
4:M9:147:ALA:HB2	4:M9:173:PHE:CZ	2.49	0.48
2:A9:52:VAL:CG1	2:A9:83:ALA:HA	2.43	0.48
2:E9:30:ARG:C	2:E9:30:ARG:HD3	2.39	0.48
3:F9:142:VAL:HG13	12:F9:303:CYC:HBC2	1.95	0.48
2:S9:138:VAL:HG12	2:S9:138:VAL:O	2.11	0.48
11:a9:93:LEU:N	11:a9:93:LEU:HD12	2.29	0.48
11:aA:93:LEU:N	11:aA:93:LEU:HD12	2.29	0.48
11:aA:290:ASP:N	11:aA:290:ASP:OD1	2.47	0.48
3:H1:52:ILE:HD11	3:H1:87:GLU:HA	1.95	0.48
5:N1:38:GLU:HB3	5:N1:41:GLN:HE21	1.77	0.48
2:A2:60:TYR:CB	2:A2:67:THR:CG2	2.83	0.48
1:Z:16:GLY:HA2	8:e5:90:ARG:HH12	1.74	0.48
1:Z:89:LEU:HD22	1:Z:133:MET:CE	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Z:201:CYC:HMA3	12:Z:201:CYC:NB	2.29	0.48
2:IA:145:GLN:OE1	12:F9:302:CYC:CHB	2.61	0.48
12:JA:202:CYC:HBA2	11:aA:510:PHE:C	2.34	0.48
3:LA:37:ARG:HH11	3:LA:97:LEU:HD12	1.79	0.48
12:LA:202:CYC:CMA	11:aA:534:SER:HB2	2.44	0.48
4:MA:147:ALA:HB2	4:MA:173:PHE:CZ	2.49	0.48
2:OA:25:GLN:HG2	2:YA:33:ARG:CG	2.38	0.48
2:OA:34:ALA:CB	3:PA:31:VAL:HG11	2.38	0.48
2:OA:59:VAL:HG12	2:OA:66:LEU:HD13	1.96	0.48
2:QA:33:ARG:CB	2:UA:25:GLN:CG	2.89	0.48
2:O1:5:ILE:HG21	3:P1:99:ALA:HA	1.96	0.48
3:R1:52:ILE:HD11	3:R1:87:GLU:HA	1.95	0.48
2:A1:34:ALA:CB	3:B1:31:VAL:HG21	2.44	0.48
3:J2:52:ILE:HD11	3:J2:87:GLU:HA	1.95	0.48
6:M2:127:SER:O	12:F2:201:CYC:CMA	2.61	0.48
2:A3:31:PHE:CD2	3:B3:34:SER:HB2	2.49	0.48
3:B3:91:ARG:HH22	11:a9:677:GLN:CD	2.21	0.48
12:Z3:201:CYC:OB	4:M3:162:ASN:HB3	2.09	0.48
4:M3:147:ALA:HB2	4:M3:173:PHE:CZ	2.49	0.48
4:M3:233:GLU:HG2	4:M3:233:GLU:O	2.13	0.48
4:M3:252:LEU:HD13	3:X3:77:ARG:NH1	2.28	0.48
3:U4:120:LEU:HD23	3:U4:120:LEU:C	2.38	0.48
3:F4:115:GLU:CA	4:M4:3:VAL:CG1	2.92	0.48
2:G4:30:ARG:HD3	2:G4:30:ARG:C	2.39	0.48
2:I4:30:ARG:HD3	2:I4:30:ARG:C	2.39	0.48
2:N4:34:ALA:CB	3:O4:31:VAL:HG11	2.38	0.48
8:M5:49:ARG:HH12	1:J7:140:LEU:HD21	1.79	0.48
8:O5:2:SER:CA	8:O5:100:ASP:HB3	2.43	0.48
3:Y4:124:THR:CG2	3:Y4:171:ILE:O	2.61	0.48
8:G5:130:VAL:HG12	8:G5:157:VAL:HG23	1.96	0.48
1:f5:9:ILE:HG22	10:j5:17:PHE:HZ	1.78	0.48
1:f5:18:TYR:CE1	10:j5:165:ARG:CG	2.97	0.48
8:U5:130:VAL:HG12	8:U5:157:VAL:HG23	1.95	0.48
8:Y5:94:TYR:OH	1:Z5:17:LYS:O	2.24	0.48
6:M6:259:THR:O	6:M6:261:LYS:N	2.47	0.48
10:j5:296:VAL:O	10:j5:296:VAL:HG12	2.14	0.48
10:j5:851:HIS:ND1	10:j5:851:HIS:C	2.71	0.48
10:j5:1017:ARG:C	10:j5:1018:LEU:HG	2.39	0.48
10:k5:72:ALA:HB1	10:k5:81:PRO:HB2	1.96	0.48
10:k5:503:LYS:HB3	10:k5:503:LYS:HE3	1.59	0.48
10:k5:564:VAL:O	10:k5:564:VAL:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:575:ILE:HD12	10:k5:607:LEU:HD12	1.95	0.48
10:k5:651:ILE:HG21	10:k5:651:ILE:HD13	1.61	0.48
12:k5:1202:CYC:CMA	12:k5:1202:CYC:NB	2.74	0.48
12:k5:1204:CYC:HMA3	12:k5:1204:CYC:NB	2.29	0.48
2:A6:30:ARG:HD3	2:A6:30:ARG:C	2.39	0.48
2:G6:30:ARG:HD3	2:G6:30:ARG:C	2.39	0.48
8:S7:130:VAL:HG12	8:S7:157:VAL:HG23	1.96	0.48
1:H7:136:VAL:HA	11:aA:563:PHE:CE1	2.47	0.48
8:I7:130:VAL:HG12	8:I7:157:VAL:HG23	1.96	0.48
1:J7:76:ARG:HB2	8:K7:110:ILE:HG13	1.95	0.48
8:g7:2:SER:CA	8:g7:100:ASP:HB3	2.43	0.48
8:k7:39:ILE:HG12	8:k7:145:ASP:HB3	1.96	0.48
8:e7:52:LYS:HB2	8:e7:52:LYS:HE3	1.53	0.48
3:D8:88:ILE:HG21	12:D8:202:CYC:HAB2	1.95	0.48
1:l7:68:PRO:C	1:n7:14:VAL:O	2.57	0.48
8:o7:23:LEU:HD22	1:p7:38:VAL:HG13	1.72	0.48
8:q7:79:ALA:CB	11:aA:50:LEU:HA	2.43	0.48
8:u7:39:ILE:HD11	8:u7:145:ASP:HA	1.95	0.48
3:H8:52:ILE:HD11	3:H8:87:GLU:HA	1.95	0.48
3:H8:108:ARG:NE	11:a9:97:ALA:HB2	2.28	0.48
3:L8:82:CYS:HB2	12:a9:901:CYC:HC	1.79	0.48
4:M8:29:PRO:CD	11:a9:230:THR:OG1	2.61	0.48
4:M8:200:ILE:CB	5:Z8:52:ARG:HH21	2.22	0.48
4:M8:231:THR:HA	12:M8:301:CYC:CBB	2.41	0.48
3:O8:88:ILE:HD11	5:Z8:54:LEU:HD11	1.94	0.48
2:R8:30:ARG:HD3	2:R8:30:ARG:C	2.39	0.48
4:M9:14:LEU:N	4:M9:14:LEU:CD1	2.76	0.48
4:M9:132:LEU:HD13	4:M9:142:PHE:CB	2.44	0.48
5:N9:15:LEU:O	5:N9:73:GLY:CA	2.61	0.48
2:A9:5:ILE:HG21	3:B9:99:ALA:HA	1.96	0.48
3:V9:52:ILE:HD11	3:V9:87:GLU:HA	1.95	0.48
11:a9:68:THR:O	11:a9:69:ARG:HG3	2.14	0.48
11:a9:643:LEU:H	11:a9:643:LEU:CD1	2.03	0.48
11:a9:820:GLY:O	11:a9:821:ARG:C	2.56	0.48
11:aA:61:TYR:HA	11:aA:65:LEU:CB	2.41	0.48
11:aA:820:GLY:O	11:aA:821:ARG:C	2.56	0.48
3:H1:77:ARG:CZ	12:H1:201:CYC:O2D	2.61	0.48
4:M1:147:ALA:HB2	4:M1:173:PHE:CZ	2.49	0.48
3:X1:52:ILE:HD11	3:X1:87:GLU:HA	1.95	0.48
3:B2:52:ILE:HD11	3:B2:87:GLU:HA	1.95	0.48
3:BA:52:ILE:HD11	3:BA:87:GLU:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IA:5:ILE:HG21	3:JA:99:ALA:HA	1.94	0.48
3:VA:88:ILE:HG21	12:VA:201:CYC:HAB2	1.96	0.48
2:O1:34:ALA:CB	3:P1:31:VAL:HG21	2.44	0.48
2:A1:5:ILE:HG21	3:B1:99:ALA:HA	1.96	0.48
3:L2:68:ARG:HB2	6:M2:64:ALA:HB2	1.96	0.48
3:B3:84:ARG:HD3	11:a9:680:SER:OG	2.09	0.48
3:D3:88:ILE:HG21	12:D3:202:CYC:HAB2	1.95	0.48
12:D3:202:CYC:HAA1	4:M3:52:LEU:HD13	1.96	0.48
2:E3:114:ARG:HH12	11:a9:671:GLU:CD	2.21	0.48
2:A4:2:LYS:HE2	2:K4:22:THR:HB	1.93	0.48
3:P3:75:PRO:CB	12:S3:201:CYC:HBB2	2.44	0.48
3:W4:88:ILE:HG21	12:W4:201:CYC:HAB2	1.95	0.48
3:H4:120:LEU:N	11:aA:266:ASN:ND2	2.62	0.48
3:J4:125:ARG:NH2	2:C2:68:GLN:NE2	2.62	0.48
4:M4:214:GLY:N	5:Z4:28:HIS:CE1	2.81	0.48
2:N4:44:LEU:HD11	2:N4:142:LEU:HD11	1.96	0.48
8:G5:140:LEU:HA	8:o7:52:LYS:NZ	2.29	0.48
8:c5:39:ILE:HG12	8:c5:145:ASP:HB3	1.95	0.48
8:S5:54:ALA:HB2	8:S5:133:MET:HG2	1.96	0.48
8:W5:128:GLU:HA	8:W5:128:GLU:OE1	2.13	0.48
1:Z5:28:LYS:CE	1:t7:143:PRO:HB2	2.24	0.48
3:L6:88:ILE:HG21	12:L6:201:CYC:HAB2	1.95	0.48
10:j5:851:HIS:O	10:j5:851:HIS:CG	2.66	0.48
10:j5:919:ILE:HG22	10:j5:919:ILE:O	2.13	0.48
10:j5:1054:SER:HA	1:r7:107:ARG:CA	2.41	0.48
10:k5:500:PRO:HG2	10:k5:500:PRO:O	2.12	0.48
10:k5:851:HIS:O	10:k5:851:HIS:CG	2.66	0.48
10:k5:1069:ARG:NH2	10:k5:1072:ILE:HD11	2.29	0.48
8:O7:22:GLU:HA	8:O7:25:ARG:HH11	1.79	0.48
1:P7:89:LEU:HD22	1:P7:133:MET:CE	2.44	0.48
8:Q7:39:ILE:HG12	8:Q7:145:ASP:HB3	1.95	0.48
1:B7:89:LEU:HD22	1:B7:133:MET:CE	2.44	0.48
8:C7:2:SER:CA	8:C7:100:ASP:HB3	2.43	0.48
8:C7:40:ALA:HB2	8:C7:97:VAL:HG13	1.95	0.48
8:M7:65:VAL:CG2	8:M7:66:VAL:N	2.75	0.48
8:g7:63:PRO:CB	11:aA:333:GLN:O	2.62	0.48
12:j7:201:CYC:NB	12:j7:201:CYC:HMA3	2.29	0.48
8:k7:130:VAL:HG12	8:k7:157:VAL:HG23	1.95	0.48
1:T7:89:LEU:HD22	1:T7:133:MET:CE	2.44	0.48
3:B8:92:TYR:CZ	12:B8:202:CYC:HAB2	2.49	0.48
8:m7:130:VAL:HG12	8:m7:157:VAL:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:x7:37:TRP:O	9:x7:37:TRP:CG	2.67	0.48
9:y7:37:TRP:O	9:y7:37:TRP:CG	2.67	0.48
2:X8:30:ARG:HD3	2:X8:30:ARG:C	2.39	0.48
3:H8:1:MET:H2	11:a9:96:THR:HG21	1.78	0.48
3:H8:75:PRO:CB	12:I8:201:CYC:HBB2	2.44	0.48
4:M8:21:LEU:HD12	4:M8:21:LEU:C	2.37	0.48
4:M8:269:SER:HA	3:Y8:108:ARG:O	2.14	0.48
3:O8:75:PRO:CB	12:R8:201:CYC:HBB2	2.44	0.48
4:M9:53:LEU:CD2	3:F9:84:ARG:CZ	2.92	0.48
4:M9:210:ILE:HD13	5:N9:59:ARG:NH1	2.27	0.48
3:P9:52:ILE:HD11	3:P9:87:GLU:HA	1.95	0.48
3:P9:88:ILE:HG21	12:P9:201:CYC:HAB2	1.95	0.48
5:Z8:31:TRP:CB	5:Z8:32:PRO:CD	2.90	0.48
2:A9:34:ALA:CB	3:B9:31:VAL:HG21	2.44	0.48
3:F9:52:ILE:HD11	3:F9:87:GLU:HA	1.95	0.48
11:a9:595:ARG:HG3	11:a9:596:THR:H	1.79	0.48
11:a9:643:LEU:CD2	11:a9:689:VAL:CG2	2.80	0.48
11:a9:709:CYS:O	11:a9:807:GLN:CB	2.53	0.48
3:X1:88:ILE:HG21	12:X1:201:CYC:HAB2	1.96	0.48
2:A2:30:ARG:HD3	2:A2:30:ARG:C	2.38	0.48
3:FA:37:ARG:NH2	3:FA:159:GLU:OE2	2.43	0.48
3:JA:70:GLY:C	11:aA:357:THR:O	2.56	0.48
4:MA:140:ARG:O	4:MA:140:ARG:HG2	2.13	0.48
2:OA:31:PHE:CD2	3:PA:34:SER:HB2	2.49	0.48
2:OA:44:LEU:HD11	2:OA:142:LEU:HD11	1.96	0.48
3:PA:75:PRO:CB	12:SA:201:CYC:HBB2	2.44	0.48
2:QA:33:ARG:NH2	12:VA:202:CYC:CBB	2.76	0.48
3:ZA:88:ILE:HG21	12:ZA:202:CYC:HAB2	1.96	0.48
3:R1:120:LEU:CD2	5:N1:16:PHE:CZ	2.97	0.48
2:I3:30:ARG:HD3	2:I3:30:ARG:C	2.39	0.48
6:M2:39:ARG:HH21	8:O5:66:VAL:CG1	2.27	0.48
6:M2:54:GLY:C	1:h7:62:TYR:HB3	2.39	0.48
2:A3:52:VAL:CG1	2:A3:83:ALA:HA	2.44	0.48
12:A3:201:CYC:HBB2	3:D3:75:PRO:CB	2.44	0.48
3:Z3:88:ILE:HG21	12:Z3:201:CYC:HAB2	1.95	0.48
2:A4:31:PHE:CD2	3:B4:34:SER:HB2	2.49	0.48
2:A4:52:VAL:CG1	2:A4:83:ALA:HA	2.43	0.48
4:M3:140:ARG:O	4:M3:140:ARG:HG2	2.13	0.48
4:M3:181:GLN:HA	4:M3:266:LEU:HD23	1.95	0.48
4:M3:232:VAL:CG2	3:V3:113:LEU:HA	2.44	0.48
2:O3:25:GLN:HG2	2:Y3:33:ARG:CG	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O3:59:VAL:HG12	2:O3:66:LEU:HD13	1.96	0.48
3:X3:88:ILE:HG21	12:X3:201:CYC:HAB2	1.96	0.48
2:E4:30:ARG:HD3	2:E4:30:ARG:C	2.39	0.48
3:F4:91:ARG:HH21	11:aA:140:GLN:HE21	1.58	0.48
12:G4:201:CYC:HBB2	3:L4:75:PRO:CB	2.44	0.48
2:K4:30:ARG:HD3	2:K4:30:ARG:C	2.39	0.48
12:L4:202:CYC:CBB	11:aA:245:ALA:H	2.26	0.48
4:M4:147:ALA:HB2	4:M4:173:PHE:CZ	2.49	0.48
3:O4:107:ASP:CG	5:Z4:66:ARG:CG	2.87	0.48
3:Q4:89:ILE:HB	3:Q4:134:MET:HE1	1.96	0.48
8:K5:17:TYR:OH	1:L5:89:LEU:CG	2.62	0.48
8:K5:20:PRO:CG	8:U5:152:TYR:HA	2.43	0.48
8:A5:39:ILE:HG12	8:A5:145:ASP:HB3	1.96	0.48
8:A5:110:ILE:O	1:F5:76:ARG:CB	2.60	0.48
8:C5:130:VAL:HG12	8:C5:157:VAL:HG23	1.96	0.48
8:G5:106:GLU:CD	10:j5:558:VAL:H	2.21	0.48
1:H5:89:LEU:HD22	1:H5:133:MET:CE	2.44	0.48
12:C1:201:CYC:HBB2	3:F1:75:PRO:CB	2.44	0.48
12:f5:201:CYC:HMA3	12:f5:201:CYC:NB	2.29	0.48
8:S5:130:VAL:HG12	8:S5:157:VAL:HG23	1.95	0.48
8:U5:40:ALA:HB2	8:U5:97:VAL:HG13	1.96	0.48
8:U5:76:LYS:HG2	8:U5:77:MET:HE3	1.93	0.48
12:X5:201:CYC:HMA3	12:X5:201:CYC:NB	2.29	0.48
1:Z5:89:LEU:HD22	1:Z5:133:MET:CE	2.44	0.48
3:L6:75:PRO:CB	12:G6:201:CYC:HBB2	2.44	0.48
10:j5:190:LEU:CA	10:j5:194:CYS:SG	3.00	0.48
10:j5:822:ARG:HD2	1:H7:106:GLU:OE2	2.14	0.48
10:j5:1069:ARG:NH2	10:j5:1072:ILE:HD11	2.29	0.48
10:k5:755:GLN:H	10:k5:879:ASP:HB2	1.78	0.48
10:k5:965:GLN:C	1:p7:14:VAL:CG1	2.86	0.48
10:k5:1045:TYR:CD1	10:k5:1045:TYR:C	2.92	0.48
10:k5:1106:PHE:CE1	10:k5:1112:PRO:HA	2.49	0.48
12:k5:1203:CYC:HMA3	12:k5:1203:CYC:NB	2.29	0.48
2:A6:44:LEU:HD11	2:A6:142:LEU:HD11	1.96	0.48
8:S7:39:ILE:HG12	8:S7:145:ASP:HB3	1.95	0.48
8:S7:106:GLU:OE2	9:w7:68:GLY:CA	2.58	0.48
1:D7:89:LEU:HD22	1:D7:133:MET:CE	2.44	0.48
12:h7:201:CYC:HBB1	9:y7:21:ARG:CZ	2.44	0.48
8:i7:46:ALA:HB1	8:i7:140:LEU:HD11	1.90	0.48
12:T7:201:CYC:HMA3	12:T7:201:CYC:NB	2.29	0.48
8:Y7:52:LYS:HE3	8:Y7:52:LYS:HB3	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f7:67:ARG:NH1	11:aA:307:ARG:CG	2.76	0.48
8:q7:49:ARG:NH1	3:H1:62:GLU:HB3	2.29	0.48
8:q7:79:ALA:CA	11:aA:53:VAL:CG2	2.91	0.48
9:z7:63:ALA:HB1	9:z7:67:VAL:HG21	1.95	0.48
12:T8:201:CYC:HBB2	3:Y8:75:PRO:CB	2.44	0.48
4:M8:132:LEU:CD1	4:M8:142:PHE:HB2	2.44	0.48
3:S8:52:ILE:HD11	3:S8:87:GLU:HA	1.95	0.48
4:M9:267:LEU:HD23	4:M9:267:LEU:HA	1.65	0.48
3:Y8:113:LEU:HD13	3:Y8:171:ILE:CG1	2.44	0.48
2:A9:31:PHE:CD2	3:B9:34:SER:HB2	2.49	0.48
3:R9:88:ILE:HG21	12:R9:201:CYC:HAB2	1.95	0.48
2:S9:30:ARG:HD3	2:S9:30:ARG:C	2.39	0.48
3:X9:52:ILE:HD11	3:X9:87:GLU:HA	1.95	0.48
3:Z9:88:ILE:HG21	12:Z9:202:CYC:HAB2	1.96	0.48
11:a9:70:ALA:N	11:a9:71:ILE:HD11	2.28	0.48
11:a9:81:ASP:OD1	11:a9:81:ASP:C	2.50	0.48
11:a9:629:LYS:C	11:a9:629:LYS:CD	2.86	0.48
11:aA:70:ALA:N	11:aA:71:ILE:CD1	2.76	0.48
11:aA:629:LYS:C	11:aA:629:LYS:CD	2.85	0.48
2:K1:30:ARG:C	2:K1:30:ARG:HD3	2.39	0.48
4:M1:176:ARG:HH11	4:M1:176:ARG:HG3	1.78	0.48
2:A2:34:ALA:CB	3:B2:31:VAL:HG21	2.44	0.48
3:BA:14:LEU:CD1	3:XA:125:ARG:CD	2.92	0.47
3:HA:108:ARG:NH2	11:aA:477:TYR:CZ	2.79	0.47
4:MA:16:LYS:HA	4:MA:46:VAL:HA	1.96	0.47
4:MA:29:PRO:HB2	11:aA:375:GLN:HG3	1.96	0.47
5:NA:53:LEU:C	12:TA:301:CYC:CBA	2.85	0.47
3:TA:32:LYS:HZ1	2:X4:57:GLN:C	2.08	0.47
2:S1:30:ARG:HD3	2:S1:30:ARG:C	2.39	0.47
2:K2:30:ARG:HD3	2:K2:30:ARG:C	2.39	0.47
3:L2:88:ILE:HG21	12:L2:201:CYC:HAB2	1.96	0.47
2:A4:34:ALA:HB3	3:B4:31:VAL:CG1	2.39	0.47
12:C4:201:CYC:HBB2	3:F4:75:PRO:CB	2.44	0.47
4:M3:274:VAL:HG11	2:U3:111:ALA:HB1	1.96	0.47
3:X3:75:PRO:CB	12:Y3:201:CYC:HBB2	2.45	0.47
3:B1:75:PRO:CB	12:E1:201:CYC:HBB2	2.44	0.47
2:E4:1:MET:C	4:M4:10:ARG:HH22	2.20	0.47
12:M4:301:CYC:HAC1	3:Y4:82:CYS:HB2	1.86	0.47
12:M4:301:CYC:HB	12:M4:301:CYC:CMA	2.25	0.47
8:K5:20:PRO:CG	8:U5:155:TYR:HB2	2.43	0.47
12:N5:201:CYC:HMA3	12:N5:201:CYC:NB	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z4:29:HIS:HE1	5:Z4:38:GLU:OE1	1.97	0.47
1:H5:14:VAL:CG1	10:j5:555:ALA:CA	2.92	0.47
8:c5:130:VAL:HG12	8:c5:157:VAL:HG23	1.95	0.47
1:d5:63:SER:OG	10:j5:703:LEU:O	2.32	0.47
8:U5:16:ARG:HH12	8:U5:19:SER:HB3	1.79	0.47
1:V5:89:LEU:HD22	1:V5:133:MET:CE	2.44	0.47
8:Y5:54:ALA:HB2	8:Y5:133:MET:HG2	1.96	0.47
8:a5:4:LEU:HD21	8:a5:26:ILE:HG23	1.96	0.47
3:J6:88:ILE:HG21	12:J6:202:CYC:HAB2	1.95	0.47
10:j5:283:ARG:O	10:j5:284:PRO:C	2.53	0.47
10:j5:472:TYR:N	10:j5:472:TYR:CD1	2.73	0.47
10:j5:743:VAL:CG1	12:J7:201:CYC:CGD	2.88	0.47
10:j5:930:LEU:CD1	1:J7:33:THR:HB	2.25	0.47
10:j5:951:MET:HE3	10:j5:951:MET:CA	2.43	0.47
10:j5:1052:PRO:HG3	10:j5:1140:TRP:HA	1.96	0.47
10:k5:186:LEU:HD21	12:k5:1201:CYC:HMB3	1.96	0.47
10:k5:641:ASP:HB3	10:k5:643:VAL:H	1.79	0.47
10:k5:892:ALA:C	10:k5:895:PRO:HD2	2.39	0.47
10:k5:1089:LEU:HD22	10:k5:1089:LEU:C	2.39	0.47
10:k5:1143:LEU:HD11	8:k7:102:THR:HG22	1.96	0.47
3:H6:75:PRO:CB	12:I6:201:CYC:HBB2	2.44	0.47
1:B7:68:PRO:CB	1:D7:14:VAL:C	2.67	0.47
12:D7:201:CYC:HMA3	12:D7:201:CYC:NB	2.29	0.47
8:M7:130:VAL:HG12	8:M7:157:VAL:HG23	1.95	0.47
8:g7:25:ARG:NH2	8:u7:25:ARG:NE	2.49	0.47
12:h7:201:CYC:HMA3	12:h7:201:CYC:NB	2.29	0.47
8:i7:126:VAL:CG2	12:i7:201:CYC:CMC	2.91	0.47
8:c7:57:GLN:HB2	8:c7:132:ALA:HB1	1.96	0.47
2:A8:31:PHE:CD2	3:B8:34:SER:HB2	2.49	0.47
8:m7:2:SER:O	8:m7:100:ASP:CB	2.62	0.47
8:u7:4:LEU:HD21	8:u7:26:ILE:HD13	1.93	0.47
3:F8:110:LEU:O	3:F8:113:LEU:N	2.47	0.47
3:H8:88:ILE:HG21	12:H8:201:CYC:HAB2	1.95	0.47
3:L8:70:GLY:O	3:L8:71:GLY:O	2.32	0.47
4:M8:58:TYR:O	4:M8:61:ASN:OD1	2.31	0.47
4:M8:233:GLU:HG2	4:M8:233:GLU:O	2.13	0.47
3:O8:88:ILE:HG21	12:O8:201:CYC:HAB2	1.95	0.47
3:O8:107:ASP:OD1	5:Z8:66:ARG:NE	2.43	0.47
4:M9:140:ARG:HG2	4:M9:140:ARG:O	2.13	0.47
4:M9:176:ARG:HG2	4:M9:176:ARG:O	2.13	0.47
5:N9:2:SER:O	5:N9:2:SER:OG	2.16	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A9:34:ALA:HB3	3:B9:31:VAL:CG1	2.39	0.47
3:B9:52:ILE:HD11	3:B9:87:GLU:HA	1.95	0.47
3:J9:70:GLY:C	11:a9:357:THR:O	2.55	0.47
12:J9:201:CYC:CMD	12:J9:201:CYC:NC	2.75	0.47
11:a9:290:ASP:OD1	11:a9:290:ASP:N	2.47	0.47
11:a9:295:ARG:HA	11:a9:295:ARG:HE	1.78	0.47
11:aA:617:ALA:O	11:aA:620:ALA:HA	2.15	0.47
3:H1:82:CYS:HA	12:H1:201:CYC:HAC1	1.45	0.47
4:M1:181:GLN:HA	4:M1:266:LEU:HD23	1.95	0.47
4:M1:232:VAL:CG2	3:V1:113:LEU:HA	2.44	0.47
4:M1:263:PRO:HB2	3:Z1:119:ALA:HB1	1.83	0.47
5:N1:37:HIS:CD2	12:T1:301:CYC:HMA2	2.48	0.47
1:A:89:LEU:HD22	1:A:133:MET:CE	2.44	0.47
1:Z:118:SER:HG	10:j5:9:SER:HB2	1.78	0.47
2:AA:30:ARG:HD3	2:AA:30:ARG:C	2.39	0.47
3:FA:52:ILE:HD11	3:FA:87:GLU:HA	1.95	0.47
2:OA:64:PRO:C	2:OA:66:LEU:H	2.23	0.47
2:QA:119:THR:HG21	3:TA:83:LEU:CG	2.41	0.47
2:G3:30:ARG:HD3	2:G3:30:ARG:C	2.39	0.47
2:G3:106:ASP:C	3:L3:77:ARG:HH21	2.22	0.47
3:H2:88:ILE:HG21	12:H2:201:CYC:HAB2	1.95	0.47
3:J2:75:PRO:CB	12:K2:201:CYC:HBB2	2.45	0.47
3:B3:52:ILE:HD11	3:B3:87:GLU:HA	1.95	0.47
12:B3:202:CYC:HMD1	12:B3:202:CYC:NC	2.12	0.47
2:E3:30:ARG:HD3	2:E3:30:ARG:C	2.39	0.47
4:M3:130:SER:CA	12:P3:201:CYC:O2A	2.59	0.47
4:M3:252:LEU:CD1	3:X3:77:ARG:HH12	2.28	0.47
2:Q3:30:ARG:HD3	2:Q3:30:ARG:C	2.39	0.47
3:T3:88:ILE:HG21	12:T3:301:CYC:HAB2	1.96	0.47
3:V3:88:ILE:HG21	12:V3:201:CYC:HAB2	1.96	0.47
3:B1:52:ILE:HD11	3:B1:87:GLU:HA	1.95	0.47
3:B1:82:CYS:SG	12:B1:202:CYC:C2C	3.02	0.47
3:S4:75:PRO:CB	12:P4:201:CYC:HBB2	2.45	0.47
3:F4:91:ARG:NH2	11:aA:140:GLN:HE21	2.03	0.47
3:J4:75:PRO:CB	12:K4:201:CYC:HBB2	2.44	0.47
4:M4:14:LEU:N	4:M4:14:LEU:CD1	2.77	0.47
4:M4:181:GLN:HA	4:M4:266:LEU:HD23	1.95	0.47
12:K5:201:CYC:CGD	1:J5:62:TYR:OH	2.61	0.47
1:L5:75:THR:CG2	8:G5:115:MET:HE2	2.34	0.47
2:X4:30:ARG:HD3	2:X4:30:ARG:C	2.39	0.47
3:Y4:87:GLU:CB	3:Y4:91:ARG:NH1	2.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:76:ARG:HD2	9:z5:14:LEU:CA	2.44	0.47
12:F5:201:CYC:CBB	10:k5:588:VAL:HG21	2.44	0.47
8:G5:115:MET:SD	12:G5:201:CYC:NB	2.87	0.47
8:G5:126:VAL:HG22	12:G5:201:CYC:CBC	2.45	0.47
8:I5:2:SER:O	8:I5:100:ASP:CB	2.62	0.47
8:I5:68:PRO:HB3	8:Q7:59:PHE:HD2	1.79	0.47
1:T5:89:LEU:HD22	1:T5:133:MET:CE	2.45	0.47
12:T5:201:CYC:HMA3	12:T5:201:CYC:NB	2.29	0.47
1:V5:114:GLU:OE1	10:j5:496:GLU:CA	2.63	0.47
1:X5:89:LEU:HD22	1:X5:133:MET:CE	2.45	0.47
10:j5:375:VAL:HG11	10:j5:456:ILE:HD13	1.94	0.47
10:j5:575:ILE:HD12	10:j5:607:LEU:HD12	1.95	0.47
10:j5:600:VAL:O	10:j5:600:VAL:HG12	2.12	0.47
10:j5:938:GLN:CD	1:J7:28:LYS:CD	2.53	0.47
10:k5:194:CYS:CB	12:k5:1201:CYC:CAC	2.87	0.47
10:k5:238:ARG:CG	10:k5:238:ARG:NH1	2.72	0.47
10:k5:779:ASP:CG	12:F7:201:CYC:HMA2	2.27	0.47
10:k5:827:LYS:HE2	10:k5:909:ASP:O	2.13	0.47
10:k5:1009:ALA:HA	1:p7:87:TYR:HE1	1.78	0.47
12:C6:201:CYC:HBB2	3:F6:75:PRO:CB	2.44	0.47
12:P7:201:CYC:HMD1	12:P7:201:CYC:NC	2.10	0.47
8:S7:64:ASP:OD2	8:I7:69:GLY:CA	2.60	0.47
8:i7:99:GLY:O	8:s7:21:GLY:HA3	2.14	0.47
1:j7:89:LEU:HD22	1:j7:133:MET:CE	2.44	0.47
8:a7:25:ARG:HE	8:o7:25:ARG:HE	1.50	0.47
8:c7:8:ILE:CG2	1:d7:94:TYR:CD1	2.82	0.47
1:d7:89:LEU:HD22	1:d7:133:MET:CE	2.44	0.47
12:d7:201:CYC:NB	12:d7:201:CYC:CMA	2.74	0.47
12:d7:201:CYC:NB	12:d7:201:CYC:HMA3	2.29	0.47
12:f7:201:CYC:HMA3	12:f7:201:CYC:NB	2.29	0.47
1:l7:89:LEU:HD22	1:l7:133:MET:CE	2.44	0.47
8:o7:97:VAL:HG11	1:p7:24:LEU:HD21	1.97	0.47
9:z7:29:THR:O	9:z7:30:LYS:HB3	2.13	0.47
9:z7:35:GLU:N	9:z7:35:GLU:CD	2.73	0.47
2:X8:68:GLN:NE2	3:T9:24:LEU:HB3	2.29	0.47
3:F8:110:LEU:O	3:F8:111:ASN:C	2.57	0.47
12:G8:201:CYC:HBB2	3:L8:75:PRO:CB	2.44	0.47
3:J8:75:PRO:CB	12:K8:201:CYC:HBB2	2.44	0.47
3:L8:69:PRO:O	11:a9:82:GLN:HG2	2.12	0.47
4:M8:138:SER:HB3	12:Z8:301:CYC:HBB1	1.96	0.47
4:M8:217:VAL:HG23	5:Z8:30:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N8:34:ALA:CB	3:O8:31:VAL:HG21	2.44	0.47
2:N8:44:LEU:HD11	2:N8:142:LEU:HD11	1.96	0.47
3:Q8:81:ALA:HB2	5:Z8:36:THR:CG2	2.44	0.47
3:P9:75:PRO:CB	12:S9:201:CYC:HBB2	2.44	0.47
12:Q9:201:CYC:HBB2	3:T9:75:PRO:CB	2.44	0.47
5:Z8:41:GLN:CB	12:Z8:301:CYC:NB	2.58	0.47
2:A9:30:ARG:C	2:A9:30:ARG:HD3	2.39	0.47
3:B9:88:ILE:HG21	12:B9:201:CYC:HAB2	1.95	0.47
2:I9:30:ARG:HD3	2:I9:30:ARG:C	2.39	0.47
3:J9:78:ARG:HH12	11:a9:359:ASP:CA	2.05	0.47
2:K9:30:ARG:HD3	2:K9:30:ARG:C	2.38	0.47
3:V9:75:PRO:CB	12:W9:201:CYC:HBB2	2.44	0.47
3:V9:88:ILE:HG21	12:V9:201:CYC:HAB2	1.96	0.47
2:W9:30:ARG:HD3	2:W9:30:ARG:C	2.39	0.47
11:a9:338:VAL:CG1	11:a9:340:PRO:HD3	2.44	0.47
11:aA:550:PHE:N	11:aA:551:PRO:CD	2.77	0.47
5:N1:40:SER:O	5:N1:40:SER:OG	2.30	0.47
12:A:201:CYC:HMA3	12:A:201:CYC:NB	2.29	0.47
3:BA:88:ILE:HG21	12:BA:201:CYC:HAB2	1.95	0.47
3:FA:148:VAL:HG11	12:F9:302:CYC:C4C	2.43	0.47
2:IA:30:ARG:HD3	2:IA:30:ARG:C	2.39	0.47
2:IA:97:LEU:CD1	2:IA:97:LEU:C	2.85	0.47
3:JA:68:ARG:CB	11:aA:353:ALA:CB	2.92	0.47
3:JA:88:ILE:HG21	12:JA:202:CYC:HAB2	1.95	0.47
3:JA:119:ALA:C	11:aA:365:LYS:HE3	2.12	0.47
4:MA:185:ALA:HA	12:VA:201:CYC:HBA2	1.93	0.47
2:QA:65:TYR:CD1	2:WA:65:TYR:CE1	3.02	0.47
3:TA:24:LEU:HB3	2:X4:68:GLN:NE2	2.29	0.47
3:VA:75:PRO:CB	12:WA:201:CYC:HBB2	2.44	0.47
2:O1:31:PHE:CD2	3:P1:34:SER:HB2	2.49	0.47
2:O1:52:VAL:CG1	2:O1:83:ALA:HA	2.43	0.47
2:Q1:30:ARG:HD3	2:Q1:30:ARG:C	2.39	0.47
12:Q1:201:CYC:HBB2	3:T1:75:PRO:CB	2.44	0.47
3:D3:118:VAL:HG22	4:M3:254:LEU:HD13	1.95	0.47
2:A4:30:ARG:HD3	2:A4:30:ARG:C	2.39	0.47
2:A4:34:ALA:CB	3:B4:31:VAL:HG21	2.44	0.47
2:C4:30:ARG:HD3	2:C4:30:ARG:C	2.39	0.47
4:M3:144:ARG:HH21	5:N3:52:ARG:NH2	2.09	0.47
12:O3:201:CYC:HBB2	3:R3:75:PRO:CB	2.45	0.47
3:S4:82:CYS:SG	12:S4:202:CYC:HBC1	2.53	0.47
3:H4:120:LEU:N	11:aA:266:ASN:CG	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:176:ARG:CG	4:M4:176:ARG:NH1	2.70	0.47
12:N4:201:CYC:HBB2	3:Q4:75:PRO:CB	2.45	0.47
8:K5:79:ALA:C	8:K5:81:CYS:H	2.21	0.47
8:M5:54:ALA:HB2	8:M5:133:MET:HG2	1.96	0.47
8:E5:79:ALA:C	8:E5:81:CYS:N	2.68	0.47
8:E5:132:ALA:C	8:E5:134:LYS:N	2.69	0.47
12:F5:201:CYC:HMA3	12:F5:201:CYC:NB	2.29	0.47
8:G5:39:ILE:HG12	8:G5:145:ASP:HB3	1.96	0.47
1:J5:3:ASP:HB2	1:J5:4:ALA:H	1.48	0.47
8:e5:2:SER:O	8:e5:100:ASP:CB	2.63	0.47
1:f5:89:LEU:HD22	1:f5:133:MET:CE	2.44	0.47
8:U5:48:GLU:HA	6:M6:34:ARG:NH1	2.14	0.47
12:Z5:201:CYC:NB	12:Z5:201:CYC:HMA3	2.29	0.47
1:b5:3:ASP:CG	10:k5:21:MET:CB	2.80	0.47
10:j5:415:PHE:O	10:j5:416:GLY:C	2.53	0.47
10:k5:362:LYS:CD	10:k5:362:LYS:C	2.85	0.47
3:F6:52:ILE:HD11	3:F6:87:GLU:HA	1.95	0.47
8:O7:25:ARG:NH2	8:E7:25:ARG:HE	2.11	0.47
12:N7:201:CYC:HMA3	12:N7:201:CYC:NB	2.29	0.47
8:g7:90:ARG:NH1	1:h7:16:GLY:CA	2.74	0.47
1:h7:89:LEU:HD22	1:h7:133:MET:CE	2.44	0.47
8:i7:47:ARG:HB3	1:j7:18:TYR:CE2	2.48	0.47
8:U7:2:SER:O	8:U7:100:ASP:CB	2.62	0.47
1:f7:89:LEU:HD22	1:f7:133:MET:CE	2.44	0.47
1:n7:89:LEU:HD22	1:n7:133:MET:CE	2.44	0.47
8:u7:23:LEU:CA	1:v7:38:VAL:HG21	2.43	0.47
1:v7:89:LEU:HD22	1:v7:133:MET:CE	2.44	0.47
2:V8:30:ARG:HD3	2:V8:30:ARG:C	2.39	0.47
2:X8:67:THR:HG1	3:T9:28:THR:HG22	1.68	0.47
3:F8:88:ILE:HG21	12:F8:202:CYC:HAB2	1.96	0.47
3:J8:88:ILE:HG21	12:J8:201:CYC:HAB2	1.95	0.47
4:M8:96:LYS:NZ	3:Q8:109:CYS:SG	2.86	0.47
12:M8:301:CYC:C1C	3:Y8:72:ASN:OD1	2.62	0.47
12:L9:202:CYC:NB	11:a9:404:TYR:CE1	2.82	0.47
4:M9:6:THR:CG2	12:D9:201:CYC:HBB2	2.43	0.47
5:N9:53:LEU:C	12:T9:301:CYC:CBA	2.85	0.47
5:Z8:29:HIS:NE2	5:Z8:36:THR:HG22	2.28	0.47
2:C9:38:MET:HE2	2:C9:38:MET:HB3	1.81	0.47
3:H9:108:ARG:NH2	11:a9:477:TYR:OH	2.47	0.47
2:G1:30:ARG:C	2:G1:30:ARG:HD3	2.39	0.47
12:G1:201:CYC:HBB2	3:L1:75:PRO:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:389:GLN:NE2	11:a9:389:GLN:CA	2.72	0.47
11:a9:588:VAL:C	11:a9:590:PRO:HD2	2.30	0.47
11:aA:38:VAL:HA	11:aA:39:PRO:HD3	1.85	0.47
11:aA:456:PHE:CD1	11:aA:460:LEU:HD12	2.49	0.47
4:M1:14:LEU:N	4:M1:14:LEU:CD1	2.77	0.47
4:M1:200:ILE:HD13	4:M1:200:ILE:HA	1.54	0.47
2:W1:30:ARG:HD3	2:W1:30:ARG:C	2.39	0.47
2:A2:5:ILE:HG21	3:B2:99:ALA:HA	1.96	0.47
12:Z:201:CYC:CMA	12:Z:201:CYC:NB	2.74	0.47
2:CA:30:ARG:HD3	2:CA:30:ARG:C	2.39	0.47
3:FA:88:ILE:HG21	12:FA:301:CYC:HAB2	1.96	0.47
12:JA:202:CYC:O2A	11:aA:511:LYS:HD2	2.14	0.47
4:MA:14:LEU:N	4:MA:14:LEU:CD1	2.77	0.47
4:MA:61:ASN:C	4:MA:63:GLY:N	2.64	0.47
4:MA:176:ARG:HH11	4:MA:176:ARG:HG3	1.78	0.47
2:A1:31:PHE:CD2	3:B1:34:SER:HB2	2.49	0.47
3:J3:52:ILE:HD11	3:J3:87:GLU:HA	1.95	0.47
3:J3:75:PRO:CB	12:K3:201:CYC:HBB2	2.44	0.47
3:B3:75:PRO:CB	12:E3:201:CYC:HBB2	2.44	0.47
3:D3:52:ILE:HD11	3:D3:87:GLU:HA	1.95	0.47
3:B4:75:PRO:CB	12:E4:201:CYC:HBB2	2.44	0.47
12:B4:202:CYC:NA	4:M4:57:THR:OG1	2.40	0.47
3:D4:150:ARG:NH1	2:C1:140:SER:O	2.48	0.47
5:N3:57:MET:CE	5:N3:67:ILE:HG13	2.44	0.47
3:H4:84:ARG:NE	11:aA:131:TYR:HB3	2.30	0.47
4:M4:233:GLU:HG2	4:M4:233:GLU:O	2.13	0.47
3:Y4:52:ILE:HD11	3:Y4:87:GLU:HA	1.95	0.47
5:Z4:57:MET:CE	5:Z4:67:ILE:HG13	2.44	0.47
8:C5:4:LEU:O	8:C5:4:LEU:HD23	2.13	0.47
1:J5:89:LEU:HD22	1:J5:133:MET:CE	2.44	0.47
12:R5:201:CYC:HMA3	12:R5:201:CYC:NB	2.29	0.47
1:X5:87:TYR:OH	10:j5:521:GLY:HA3	2.13	0.47
1:Z5:161:SER:HG	10:k5:696:ARG:HA	1.76	0.47
6:M6:277:GLY:HA2	1:d7:62:TYR:CB	2.45	0.47
8:A7:39:ILE:HG12	8:A7:145:ASP:HB3	1.95	0.47
10:j5:288:LEU:HD23	10:j5:288:LEU:HA	1.77	0.47
10:j5:767:LEU:C	10:j5:767:LEU:CD2	2.84	0.47
10:k5:221:LYS:NZ	10:k5:221:LYS:C	2.73	0.47
10:k5:951:MET:HE2	10:k5:955:LEU:HD11	1.96	0.47
10:k5:1105:ILE:HD13	10:k5:1115:ARG:HH21	1.75	0.47
12:A6:201:CYC:HBB2	3:D6:75:PRO:CB	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E6:30:ARG:HD3	2:E6:30:ARG:C	2.39	0.47
3:H6:88:ILE:HG21	12:H6:201:CYC:HAB2	1.96	0.47
8:O7:2:SER:O	8:O7:100:ASP:CB	2.63	0.47
8:Q7:21:GLY:HA3	8:C7:6:LYS:HZ3	1.78	0.47
8:C7:2:SER:O	8:C7:100:ASP:CB	2.62	0.47
1:F7:89:LEU:HD22	1:F7:133:MET:CE	2.44	0.47
1:H7:68:PRO:C	1:J7:14:VAL:O	2.57	0.47
8:K7:25:ARG:HD3	8:U7:25:ARG:HH22	1.78	0.47
12:L7:201:CYC:HMA3	12:L7:201:CYC:NB	2.29	0.47
1:j7:82:ILE:HD12	8:e7:118:SER:HB2	1.95	0.47
1:T7:106:GLU:HG3	9:w7:58:THR:HG22	1.90	0.47
1:V7:75:THR:HG21	8:W7:112:VAL:HB	1.97	0.47
3:B8:109:CYS:CA	4:M8:60:LYS:HZ3	2.27	0.47
1:r7:68:PRO:C	1:t7:14:VAL:O	2.57	0.47
8:u7:97:VAL:HG11	1:v7:24:LEU:HD21	1.97	0.47
12:v7:201:CYC:NB	12:v7:201:CYC:HMA3	2.29	0.47
3:F8:107:ASP:O	4:M8:6:THR:C	2.55	0.47
2:I8:30:ARG:C	2:I8:30:ARG:HD3	2.39	0.47
4:M8:16:LYS:HA	4:M8:46:VAL:HA	1.96	0.47
4:M8:100:SER:HB2	2:P8:10:ALA:HA	1.95	0.47
3:L9:75:PRO:CB	12:G9:201:CYC:HBB2	2.44	0.47
3:L9:83:LEU:HD13	2:G9:119:THR:CG2	2.34	0.47
3:L9:111:ASN:CG	11:a9:366:LEU:CD1	2.87	0.47
12:L9:201:CYC:C4B	2:A9:33:ARG:NH1	2.44	0.47
4:M9:45:VAL:O	4:M9:45:VAL:HG12	2.14	0.47
12:O9:201:CYC:HBB2	3:R9:75:PRO:CB	2.45	0.47
5:Z8:37:HIS:HE1	12:Z8:301:CYC:HBA1	1.78	0.47
3:B9:14:LEU:CD1	3:X9:125:ARG:CD	2.92	0.47
12:J9:202:CYC:O2A	11:a9:511:LYS:HD2	2.14	0.47
11:a9:64:ARG:O	11:a9:65:LEU:C	2.57	0.47
11:a9:289:THR:HG22	11:a9:292:ALA:HB3	1.96	0.47
11:a9:801:ASN:HB3	11:a9:807:GLN:HE21	1.79	0.47
11:aA:338:VAL:CG1	11:aA:340:PRO:HD3	2.44	0.47
11:aA:632:ILE:CD1	3:J1:107:ASP:OD1	2.62	0.47
3:V1:75:PRO:CB	12:W1:201:CYC:HBB2	2.45	0.47
3:V1:88:ILE:HG21	12:V1:201:CYC:HAB2	1.96	0.47
12:A2:201:CYC:HBB2	3:D2:75:PRO:CB	2.44	0.47
2:AA:34:ALA:CB	3:BA:31:VAL:HG21	2.44	0.47
12:CA:201:CYC:HBB2	3:FA:75:PRO:CB	2.45	0.47
3:HA:72:ASN:CG	12:HA:202:CYC:CMD	2.88	0.47
3:P1:75:PRO:CB	12:S1:201:CYC:HBB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:30:ARG:HD3	2:A1:30:ARG:C	2.39	0.47
12:A1:201:CYC:HBB2	3:D1:75:PRO:CB	2.44	0.47
3:L2:75:PRO:HG3	3:L2:78:ARG:CG	2.42	0.47
2:A3:59:VAL:HG12	2:A3:66:LEU:HD13	1.96	0.47
12:Z3:202:CYC:C4B	2:O3:33:ARG:NH1	2.44	0.47
3:B4:108:ARG:CA	4:M4:61:ASN:CB	2.92	0.47
3:L3:75:PRO:HG3	11:a9:823:ILE:HD12	1.95	0.47
4:M3:132:LEU:HD13	4:M3:142:PHE:CB	2.44	0.47
3:J4:52:ILE:HD11	3:J4:87:GLU:HA	1.95	0.47
2:P4:30:ARG:HD3	2:P4:30:ARG:C	2.39	0.47
8:O5:40:ALA:HB2	8:O5:97:VAL:HG13	1.96	0.47
1:D5:89:LEU:HD22	1:D5:133:MET:CE	2.44	0.47
12:D5:201:CYC:HMA3	12:D5:201:CYC:NB	2.29	0.47
1:d5:89:LEU:HD22	1:d5:133:MET:CE	2.44	0.47
1:f5:18:TYR:CG	10:j5:165:ARG:CD	2.91	0.47
1:b5:89:LEU:HD22	1:b5:133:MET:CE	2.44	0.47
2:K6:30:ARG:HD3	2:K6:30:ARG:C	2.39	0.47
10:j5:361:PHE:CZ	10:j5:378:TYR:CE2	3.02	0.47
10:j5:477:ASP:OD1	10:j5:477:ASP:N	2.42	0.47
10:j5:964:GLY:CA	1:t7:69:GLY:CA	2.75	0.47
10:k5:930:LEU:HG	1:D7:148:GLU:HB2	1.97	0.47
8:M7:54:ALA:HB2	8:M7:133:MET:HG2	1.96	0.47
8:i7:36:ARG:NH2	8:i7:152:TYR:HH	2.08	0.47
1:T7:68:PRO:C	1:V7:14:VAL:O	2.57	0.47
1:V7:89:LEU:HD22	1:V7:133:MET:CE	2.44	0.47
12:b7:201:CYC:HMD1	12:b7:201:CYC:NC	2.09	0.47
8:c7:11:ALA:HB1	1:d7:94:TYR:CZ	2.44	0.47
12:p7:201:CYC:NB	12:p7:201:CYC:HMA3	2.29	0.47
9:x7:35:GLU:N	9:x7:35:GLU:CD	2.72	0.47
3:U8:88:ILE:HG21	12:U8:201:CYC:HAB2	1.96	0.47
3:W8:88:ILE:HG21	12:W8:201:CYC:HAB2	1.95	0.47
3:F8:107:ASP:OD2	4:M8:8:SER:O	2.25	0.47
2:I8:14:SER:HA	11:a9:170:PHE:CE2	2.44	0.47
4:M8:217:VAL:HG23	5:Z8:30:PRO:CD	2.43	0.47
2:N8:5:ILE:HG21	3:O8:99:ALA:HA	1.96	0.47
2:N8:52:VAL:CG1	2:N8:83:ALA:HA	2.44	0.47
12:O8:202:CYC:CMD	12:O8:202:CYC:NC	2.75	0.47
4:M9:188:LEU:CG	3:V9:84:ARG:CZ	2.84	0.47
4:M9:204:ILE:HG22	4:M9:204:ILE:O	2.14	0.47
5:N9:36:THR:HA	12:P9:201:CYC:HBA1	1.95	0.47
2:O9:44:LEU:HD11	2:O9:142:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Z8:14:LYS:HE3	5:Z8:50:LEU:CD2	2.45	0.47
3:D9:88:ILE:HG21	12:D9:201:CYC:HAB2	1.95	0.47
12:U9:201:CYC:HBB2	3:Z9:75:PRO:CB	2.45	0.47
3:X9:75:PRO:CB	12:Y9:201:CYC:HBB2	2.45	0.47
2:Y9:30:ARG:HD3	2:Y9:30:ARG:C	2.39	0.47
11:a9:371:VAL:HG11	11:a9:507:PHE:CG	2.47	0.47
11:aA:95:ILE:HG23	11:aA:98:ILE:HB	1.96	0.47
3:J1:52:ILE:HD11	3:J1:87:GLU:HA	1.95	0.47
2:A2:44:LEU:HD11	2:A2:142:LEU:HD11	1.96	0.47
3:D2:88:ILE:HG21	12:D2:201:CYC:HAB2	1.96	0.47
1:A:107:ARG:NH1	8:a5:9:VAL:HG22	2.28	0.47
1:Z:76:ARG:NH1	10:j5:262:TYR:HE2	1.98	0.47
3:DA:68:ARG:HH12	3:XA:68:ARG:HH12	1.63	0.47
3:JA:19:LEU:CD1	3:JA:24:LEU:CD2	2.93	0.47
12:OA:201:CYC:HBB2	3:RA:75:PRO:CB	2.44	0.47
2:QA:76:ASP:HB2	2:U1:141:GLN:C	2.39	0.47
3:XA:52:ILE:HD11	3:XA:87:GLU:HA	1.95	0.47
12:J3:202:CYC:HMA1	11:a9:798:SER:CB	2.32	0.47
2:G2:15:GLN:CA	6:M2:104:ARG:HD3	2.42	0.47
3:L2:52:ILE:HD11	3:L2:87:GLU:HA	1.95	0.47
2:E3:38:MET:HE2	2:E3:38:MET:HB3	1.81	0.47
3:L3:120:LEU:O	11:a9:821:ARG:NH1	2.47	0.47
4:M3:5:THR:C	4:M3:6:THR:OG1	2.56	0.47
4:M3:45:VAL:O	4:M3:45:VAL:HG12	2.14	0.47
4:M3:176:ARG:HG2	4:M3:176:ARG:O	2.13	0.47
5:N3:16:PHE:CZ	3:R3:120:LEU:CD2	2.97	0.47
2:O3:31:PHE:CD2	3:P3:34:SER:HB2	2.49	0.47
12:Q3:201:CYC:HBB2	3:T3:75:PRO:CB	2.44	0.47
3:F4:88:ILE:HG21	12:F4:202:CYC:HAB2	1.95	0.47
3:L4:71:GLY:H	11:aA:82:GLN:CB	2.27	0.47
1:N5:12:TYR:CZ	1:N5:23:ALA:HB2	2.50	0.47
3:Y4:93:VAL:HA	3:Y4:105:LEU:CD1	2.44	0.47
8:A5:115:MET:SD	12:A5:201:CYC:NB	2.87	0.47
8:G5:107:ILE:O	12:G5:201:CYC:HAB2	2.14	0.47
1:H5:12:TYR:CZ	1:H5:23:ALA:HB2	2.50	0.47
1:H5:13:ASP:OD2	10:j5:556:GLY:HA3	2.15	0.47
8:I5:2:SER:C	8:I5:100:ASP:HB2	2.40	0.47
8:I5:29:PHE:HE2	1:J5:5:ILE:CD1	2.26	0.47
8:Q5:17:TYR:N	1:R5:90:ARG:HH11	2.13	0.47
8:Q5:39:ILE:HG12	8:Q5:145:ASP:HB3	1.95	0.47
12:Z5:201:CYC:HMA2	10:k5:379:PHE:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:379:PHE:O	10:j5:379:PHE:CG	2.67	0.47
10:k5:415:PHE:O	10:k5:416:GLY:C	2.53	0.47
2:A6:5:ILE:HG21	3:B6:99:ALA:HA	1.96	0.47
2:A6:31:PHE:CD2	3:B6:34:SER:HB2	2.49	0.47
3:F6:127:VAL:HG22	12:F6:201:CYC:H3C	1.95	0.47
8:O7:2:SER:C	8:O7:100:ASP:HB2	2.40	0.47
1:J7:75:THR:HG21	8:K7:112:VAL:HB	1.97	0.47
8:g7:2:SER:O	8:g7:100:ASP:CB	2.63	0.47
8:g7:40:ALA:HB2	8:g7:97:VAL:HG13	1.96	0.47
1:j7:75:THR:HB	8:e7:112:VAL:N	2.29	0.47
8:k7:66:VAL:HG11	11:a9:61:TYR:CD1	2.50	0.47
8:W7:12:ASP:C	9:w7:46:LYS:NZ	2.70	0.47
1:Z7:89:LEU:HD22	1:Z7:133:MET:CE	2.44	0.47
2:E8:30:ARG:C	2:E8:30:ARG:HD3	2.39	0.47
1:p7:89:LEU:HD22	1:p7:133:MET:CE	2.44	0.47
8:q7:66:VAL:HG13	11:aA:61:TYR:CE1	2.41	0.47
8:s7:40:ALA:HB2	8:s7:97:VAL:HG13	1.96	0.47
4:M8:181:GLN:HA	4:M8:266:LEU:HD23	1.95	0.47
2:N8:112:GLY:C	5:Z8:33:GLY:HA2	2.40	0.47
12:O8:202:CYC:HC	12:O8:202:CYC:HMD3	1.78	0.47
3:Q8:104:VAL:HG22	3:Q8:105:LEU:N	2.29	0.47
4:M9:77:LEU:C	3:D9:115:GLU:OE2	2.54	0.47
12:Y8:201:CYC:HC	12:Y8:201:CYC:HMD3	1.78	0.47
5:Z8:57:MET:CE	5:Z8:67:ILE:HG13	2.44	0.47
2:C9:30:ARG:HD3	2:C9:30:ARG:C	2.39	0.47
2:G9:30:ARG:HD3	2:G9:30:ARG:C	2.39	0.47
2:U9:30:ARG:HD3	2:U9:30:ARG:C	2.39	0.47
11:a9:197:ILE:CD1	11:a9:278:LEU:HD22	2.44	0.47
11:a9:551:PRO:O	11:a9:554:ARG:HG2	2.15	0.47
11:aA:455:ASN:OD1	11:aA:455:ASN:N	2.40	0.47
4:M1:16:LYS:HA	4:M1:46:VAL:HA	1.96	0.47
4:M1:274:VAL:HG11	2:U1:111:ALA:HB1	1.96	0.47
5:N1:1:MET:HB2	5:N1:3:VAL:HG23	1.91	0.47
5:N1:66:ARG:HH11	5:N1:66:ARG:CB	2.22	0.47
2:AA:34:ALA:CB	3:BA:31:VAL:HG11	2.38	0.47
2:AA:64:PRO:C	2:AA:66:LEU:N	2.71	0.47
2:CA:38:MET:HE2	2:CA:38:MET:HB3	1.81	0.47
2:EA:30:ARG:HD3	2:EA:30:ARG:C	2.39	0.47
2:IA:45:THR:HG23	3:JA:18:PHE:CD2	2.50	0.47
3:JA:88:ILE:CG1	11:aA:512:TYR:CZ	2.97	0.47
5:NA:16:PHE:HE1	3:TA:120:LEU:HD23	1.64	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:NA:36:THR:HA	12:PA:201:CYC:HBA1	1.95	0.47
3:PA:52:ILE:HD11	3:PA:87:GLU:HA	1.95	0.47
2:SA:30:ARG:HD3	2:SA:30:ARG:C	2.39	0.47
2:UA:30:ARG:HD3	2:UA:30:ARG:C	2.39	0.47
12:UA:201:CYC:HBB2	3:ZA:75:PRO:CB	2.45	0.47
2:YA:30:ARG:HD3	2:YA:30:ARG:C	2.39	0.47
2:A1:64:PRO:C	2:A1:66:LEU:N	2.71	0.47
3:H3:75:PRO:CB	12:I3:201:CYC:HBB2	2.45	0.47
3:J3:119:ALA:HB1	11:a9:803:ASN:HB3	1.97	0.47
2:K3:30:ARG:HD3	2:K3:30:ARG:C	2.39	0.47
2:G2:30:ARG:HD3	2:G2:30:ARG:C	2.39	0.47
3:H2:75:PRO:CB	12:I2:201:CYC:HBB2	2.44	0.47
3:B3:91:ARG:NH2	11:a9:677:GLN:HE21	2.04	0.47
3:F3:52:ILE:HD11	3:F3:87:GLU:HA	1.95	0.47
12:Z3:201:CYC:HMA2	4:M3:188:LEU:HD23	1.97	0.47
2:A4:59:VAL:HG12	2:A4:66:LEU:HD13	1.96	0.47
3:B4:68:ARG:NH2	3:U4:68:ARG:CZ	2.50	0.47
3:B4:112:GLY:O	3:B4:114:LYS:N	2.46	0.47
3:B4:113:LEU:CD1	4:M4:60:LYS:HE2	2.39	0.47
4:M3:204:ILE:HG22	4:M3:204:ILE:O	2.14	0.47
5:N3:50:LEU:C	5:N3:50:LEU:CD1	2.84	0.47
2:U3:45:THR:HG22	2:Q9:69:PRO:HD3	1.96	0.47
3:V3:75:PRO:CB	12:W3:201:CYC:HBB2	2.45	0.47
3:X3:52:ILE:HD11	3:X3:87:GLU:HA	1.95	0.47
3:B1:91:ARG:NH2	11:aA:677:GLN:HE21	2.04	0.47
3:B1:127:VAL:HA	12:B1:202:CYC:CMC	2.30	0.47
2:T4:30:ARG:HD3	2:T4:30:ARG:C	2.39	0.47
3:F4:112:GLY:C	3:F4:114:LYS:H	2.17	0.47
3:F4:113:LEU:HD13	4:M4:5:THR:HG21	1.97	0.47
3:H4:52:ILE:HD11	3:H4:87:GLU:HA	1.95	0.47
3:H4:75:PRO:CB	12:I4:201:CYC:HBB2	2.44	0.47
3:L4:88:ILE:HG21	12:L4:202:CYC:HAB2	1.96	0.47
4:M4:26:SER:CB	11:aA:228:GLU:OE1	2.63	0.47
4:M4:93:LEU:O	4:M4:216:ASN:CG	2.57	0.47
4:M4:99:VAL:C	3:Q4:1:MET:HE1	2.36	0.47
4:M4:137:ILE:HG22	5:Z4:44:TYR:OH	2.14	0.47
4:M4:204:ILE:HG22	4:M4:204:ILE:O	2.14	0.47
4:M4:216:ASN:HB3	5:Z4:29:HIS:HA	1.97	0.47
2:N4:64:PRO:C	2:N4:66:LEU:H	2.23	0.47
3:O4:75:PRO:CB	12:R4:201:CYC:HBB2	2.44	0.47
3:Q4:74:TYR:O	3:Q4:78:ARG:NE	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:89:LEU:HD22	1:L5:133:MET:CE	2.44	0.47
8:A5:115:MET:CE	1:F5:75:THR:CG2	2.75	0.47
1:B5:89:LEU:HD22	1:B5:133:MET:CE	2.44	0.47
8:C5:40:ALA:HB2	8:C5:97:VAL:HG13	1.96	0.47
1:D5:83:ARG:NH1	9:z5:38:PHE:CE2	2.82	0.47
8:G5:119:LEU:CD2	12:G5:201:CYC:HAA2	2.44	0.47
8:I5:40:ALA:HB2	8:I5:97:VAL:HG13	1.96	0.47
8:c5:54:ALA:HB2	8:c5:133:MET:HG2	1.96	0.47
12:P5:201:CYC:HMA3	12:P5:201:CYC:NB	2.29	0.47
1:R5:89:LEU:HD22	1:R5:133:MET:CE	2.44	0.47
8:S5:39:ILE:HG12	8:S5:145:ASP:HB3	1.95	0.47
12:V5:201:CYC:NB	12:V5:201:CYC:HMA3	2.29	0.47
1:X5:47:ASN:OD1	8:a5:140:LEU:HD23	2.14	0.47
1:Z5:12:TYR:CZ	1:Z5:23:ALA:HB2	2.50	0.47
3:L6:68:ARG:HB2	6:M6:64:ALA:HB2	1.96	0.47
9:z5:27:PHE:CD1	9:z5:27:PHE:C	2.93	0.47
10:j5:199:THR:CG2	12:j5:1201:CYC:HBC2	2.41	0.47
10:j5:221:LYS:NZ	10:j5:221:LYS:C	2.73	0.47
10:j5:238:ARG:C	10:j5:238:ARG:NE	2.72	0.47
10:j5:348:TYR:CD1	10:j5:398:LEU:HD13	2.50	0.47
10:j5:930:LEU:HD12	1:J7:148:GLU:HG2	1.97	0.47
10:j5:947:MET:HB2	10:j5:947:MET:HE3	1.42	0.47
10:j5:1013:PRO:O	10:j5:1014:SER:C	2.58	0.47
10:j5:1035:PHE:CD1	10:j5:1035:PHE:O	2.68	0.47
10:j5:1045:TYR:C	10:j5:1045:TYR:CD1	2.92	0.47
10:j5:1105:ILE:HD11	10:j5:1115:ARG:HH22	1.71	0.47
10:k5:190:LEU:CD2	12:k5:1201:CYC:ND	2.67	0.47
10:k5:241:ALA:O	10:k5:243:ALA:N	2.44	0.47
10:k5:472:TYR:CD1	10:k5:472:TYR:N	2.73	0.47
10:k5:931:VAL:HG21	1:D7:30:TYR:HA	1.90	0.47
10:k5:955:LEU:HA	10:k5:955:LEU:HD23	1.55	0.47
10:k5:1035:PHE:CD1	10:k5:1035:PHE:O	2.68	0.47
10:k5:1052:PRO:HG3	10:k5:1140:TRP:HA	1.96	0.47
10:k5:1054:SER:C	10:k5:1056:PRO:CD	2.87	0.47
10:k5:1106:PHE:O	10:k5:1110:ILE:CG1	2.63	0.47
10:k5:1119:LEU:HD11	12:k5:1204:CYC:C3B	2.43	0.47
2:A6:34:ALA:CB	3:B6:31:VAL:HG21	2.44	0.47
3:H6:84:ARG:O	3:H6:86:MET:N	2.45	0.47
2:I6:30:ARG:HD3	2:I6:30:ARG:C	2.39	0.47
12:P7:201:CYC:HMA3	12:P7:201:CYC:NB	2.29	0.47
8:C7:2:SER:C	8:C7:100:ASP:HB2	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D7:12:TYR:CZ	1:D7:23:ALA:HB2	2.50	0.47
1:H7:89:LEU:HD22	1:H7:133:MET:CE	2.44	0.47
12:J7:201:CYC:HMA3	12:J7:201:CYC:NB	2.29	0.47
1:L7:89:LEU:HD22	1:L7:133:MET:CE	2.44	0.47
1:N7:12:TYR:CZ	1:N7:23:ALA:HB2	2.50	0.47
8:g7:161:GLN:CD	1:v7:49:THR:HG22	2.39	0.47
8:k7:120:GLN:CD	1:p7:53:LYS:HZ2	2.23	0.47
12:V7:201:CYC:HMA3	12:V7:201:CYC:NB	2.29	0.47
12:X7:201:CYC:HMA3	12:X7:201:CYC:NB	2.29	0.47
8:Y7:75:GLU:HG2	8:Y7:76:LYS:N	2.30	0.47
8:Y7:110:ILE:HG13	1:d7:76:ARG:HB2	1.96	0.47
8:a7:40:ALA:HB2	8:a7:97:VAL:HG13	1.96	0.47
1:b7:51:ILE:HD11	1:b7:140:LEU:HD23	1.97	0.47
8:c7:20:PRO:HG2	8:m7:155:TYR:CG	2.44	0.47
3:B8:52:ILE:HD11	3:B8:87:GLU:HA	1.96	0.47
3:D8:77:ARG:CG	4:M8:33:LEU:HD11	2.45	0.47
8:m7:22:GLU:H	8:m7:22:GLU:HG2	1.37	0.47
1:p7:3:ASP:H	1:p7:6:THR:HG1	1.61	0.47
1:r7:15:GLN:HA	11:aA:42:ARG:HG2	1.96	0.47
8:s7:2:SER:C	8:s7:100:ASP:HB2	2.40	0.47
1:t7:89:LEU:HD22	1:t7:133:MET:CE	2.44	0.47
9:w7:35:GLU:N	9:w7:35:GLU:CD	2.73	0.47
9:y7:35:GLU:N	9:y7:35:GLU:CD	2.72	0.47
3:U8:52:ILE:HD11	3:U8:87:GLU:HA	1.95	0.47
3:U8:112:GLY:C	4:M8:74:LEU:HD21	2.35	0.47
3:W8:75:PRO:CB	12:X8:201:CYC:HBB2	2.45	0.47
4:M8:91:VAL:CG2	2:P8:15:GLN:HA	2.43	0.47
4:M8:226:SER:OG	3:Y8:84:ARG:O	2.33	0.47
4:M8:231:THR:C	12:M8:301:CYC:HBB2	2.40	0.47
12:M8:301:CYC:C1C	3:Y8:122:THR:HG23	2.44	0.47
2:N8:14:SER:CB	5:Z8:62:ARG:HD3	2.40	0.47
2:N8:119:THR:HG21	3:Q8:83:LEU:HD13	1.96	0.47
3:O8:104:VAL:HG22	5:Z8:61:LYS:HE3	1.87	0.47
12:P8:201:CYC:HBB2	3:S8:75:PRO:CB	2.45	0.47
4:M9:51:ARG:HH11	4:M9:51:ARG:CG	2.27	0.47
2:O9:5:ILE:HG21	3:P9:99:ALA:HA	1.96	0.47
2:O9:59:VAL:HG12	2:O9:66:LEU:HD13	1.96	0.47
12:Z8:301:CYC:CMA	12:Z8:301:CYC:HB	2.25	0.47
2:A9:25:GLN:HG2	2:K9:33:ARG:CG	2.38	0.47
2:A9:44:LEU:HD11	2:A9:142:LEU:HD11	1.96	0.47
12:A9:201:CYC:HBB2	3:D9:75:PRO:CB	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D9:52:ILE:HD11	3:D9:87:GLU:HA	1.95	0.47
12:D9:202:CYC:CMD	12:D9:202:CYC:NC	2.75	0.47
3:F9:88:ILE:HG21	12:F9:301:CYC:HAB2	1.96	0.47
12:F9:303:CYC:HC	12:F9:303:CYC:HMD3	1.78	0.47
3:J9:19:LEU:CD1	3:J9:24:LEU:CD2	2.93	0.47
11:a9:95:ILE:HG23	11:a9:98:ILE:HB	1.96	0.47
11:a9:412:VAL:HA	11:a9:415:GLU:OE2	2.15	0.47
11:a9:456:PHE:CD1	11:a9:460:LEU:HD12	2.49	0.47
11:a9:550:PHE:N	11:a9:551:PRO:CD	2.77	0.47
11:a9:553:SER:O	11:a9:554:ARG:C	2.56	0.47
11:a9:600:THR:O	11:a9:600:THR:HG22	2.14	0.47
11:a9:716:ILE:CD1	11:a9:738:LEU:HD23	2.44	0.47
11:aA:623:ASP:CB	3:H1:78:ARG:CZ	2.65	0.47
11:aA:818:ARG:HA	11:aA:818:ARG:HD2	1.57	0.47
3:H1:75:PRO:CB	12:I1:201:CYC:HBB2	2.45	0.47
4:M1:5:THR:C	4:M1:6:THR:OG1	2.56	0.47
4:M1:74:LEU:HA	4:M1:74:LEU:HD23	1.68	0.47
12:T1:301:CYC:HB	12:T1:301:CYC:CMA	2.25	0.47
2:U1:30:ARG:HD3	2:U1:30:ARG:C	2.38	0.47
3:F2:52:ILE:HD11	3:F2:87:GLU:HA	1.95	0.47
3:F2:130:ALA:CB	12:F2:201:CYC:CBC	2.92	0.47
1:A:18:TYR:CD1	8:a5:90:ARG:HD3	2.49	0.47
1:Z:18:TYR:CZ	8:e5:90:ARG:N	2.82	0.47
4:MA:45:VAL:HG12	4:MA:45:VAL:O	2.14	0.47
2:QA:111:ALA:O	3:TA:77:ARG:HA	2.15	0.47
2:O1:64:PRO:C	2:O1:66:LEU:H	2.22	0.47
2:A1:59:VAL:HG12	2:A1:66:LEU:HD13	1.96	0.47
6:M2:53:LEU:HD21	8:i7:76:LYS:O	2.14	0.47
6:M2:259:THR:O	6:M2:261:LYS:N	2.47	0.47
2:A3:59:VAL:O	2:A3:66:LEU:CD1	2.62	0.47
3:B4:108:ARG:HB3	12:B4:202:CYC:HBB1	1.95	0.47
3:B4:116:THR:N	4:M4:56:MET:CE	2.77	0.47
4:M3:16:LYS:HA	4:M3:46:VAL:HA	1.96	0.47
5:N3:37:HIS:CD2	12:T3:301:CYC:HMA2	2.48	0.47
2:O3:64:PRO:C	2:O3:66:LEU:H	2.22	0.47
12:B1:202:CYC:HMD1	12:B1:202:CYC:NC	2.12	0.47
3:U4:112:GLY:N	4:M4:74:LEU:CD2	2.72	0.47
3:L4:68:ARG:CG	11:aA:81:ASP:C	2.88	0.47
2:P4:12:ALA:HB1	3:Q4:95:TYR:HH	1.79	0.47
3:Q4:84:ARG:NH1	5:Z4:29:HIS:HB2	2.30	0.47
8:O5:2:SER:O	8:O5:100:ASP:CB	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y4:103:SER:O	3:Y4:108:ARG:HB2	2.15	0.47
1:B5:12:TYR:CZ	1:B5:23:ALA:HB2	2.50	0.47
8:G5:52:LYS:HE3	8:G5:52:LYS:HB3	1.44	0.47
12:d5:201:CYC:NB	12:d5:201:CYC:HMA3	2.29	0.47
8:Q5:4:LEU:HD21	8:Q5:26:ILE:HD13	1.93	0.47
3:L6:78:ARG:HH22	6:M6:70:GLU:N	2.13	0.47
6:M6:69:ALA:HB2	3:H6:14:LEU:CG	2.45	0.47
6:M6:249:ARG:HB3	12:H6:201:CYC:O1D	2.15	0.47
10:j5:53:ARG:O	10:j5:56:ILE:CG2	2.43	0.47
10:j5:213:LEU:HD12	10:j5:213:LEU:H	1.79	0.47
10:j5:743:VAL:HG13	12:J7:201:CYC:CGD	2.44	0.47
10:j5:802:VAL:O	10:j5:806:VAL:HG23	2.15	0.47
10:j5:1125:ARG:HH22	1:t7:114:GLU:CB	2.21	0.47
10:k5:140:PHE:O	10:k5:140:PHE:CG	2.68	0.47
10:k5:152:ARG:CZ	10:k5:193:SER:HB2	2.44	0.47
10:k5:190:LEU:HD13	12:k5:1201:CYC:NC	2.30	0.47
10:k5:382:ILE:HD13	10:k5:382:ILE:HG21	1.58	0.47
10:k5:755:GLN:HB3	10:k5:879:ASP:HB2	1.95	0.47
10:k5:1143:LEU:HD23	1:l7:10:ASN:CG	2.39	0.47
8:O7:25:ARG:NH2	8:E7:25:ARG:NE	2.63	0.47
8:i7:44:THR:HG23	1:j7:18:TYR:HD2	1.79	0.47
8:Y7:39:ILE:HG12	8:Y7:145:ASP:HB3	1.95	0.47
8:e7:39:ILE:HG12	8:e7:145:ASP:HB3	1.95	0.47
12:A8:201:CYC:HBB2	3:D8:75:PRO:CB	2.44	0.47
3:D8:52:ILE:HD11	3:D8:87:GLU:HA	1.95	0.47
1:n7:12:TYR:CZ	1:n7:23:ALA:HB2	2.50	0.47
8:s7:2:SER:O	8:s7:100:ASP:CB	2.62	0.47
8:u7:4:LEU:CD1	1:v7:30:TYR:CZ	2.93	0.47
3:U8:75:PRO:CB	12:V8:201:CYC:HBB2	2.44	0.47
3:F8:109:CYS:O	4:M8:6:THR:HG23	2.15	0.47
12:M8:301:CYC:HMC2	3:Y8:126:SER:HB2	1.96	0.47
2:P8:30:ARG:HD3	2:P8:30:ARG:C	2.39	0.47
2:O9:30:ARG:HD3	2:O9:30:ARG:C	2.39	0.47
2:E9:152:ALA:HB3	2:I9:21:ASN:OD1	2.14	0.47
3:H9:75:PRO:CB	12:I9:201:CYC:HBB2	2.44	0.47
3:J9:68:ARG:HB2	11:a9:353:ALA:CB	2.45	0.47
3:J9:116:THR:CG2	11:a9:521:PHE:CG	2.87	0.47
12:J9:201:CYC:HC	12:J9:201:CYC:HMD3	1.78	0.47
2:G1:106:ASP:C	3:L1:77:ARG:HH21	2.22	0.47
11:a9:632:ILE:HG23	11:a9:634:ALA:N	2.24	0.47
3:H1:109:CYS:HA	12:H1:201:CYC:HBB2	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M1:1:MET:HE3	4:M1:45:VAL:HA	1.29	0.47
3:Z1:52:ILE:HD11	3:Z1:87:GLU:HA	1.95	0.47
12:A:201:CYC:HMD1	12:A:201:CYC:NC	2.10	0.47
2:GA:30:ARG:HD3	2:GA:30:ARG:C	2.39	0.47
2:IA:9:ILE:HG23	3:JA:95:TYR:HB3	1.97	0.47
3:JA:68:ARG:HB2	11:aA:353:ALA:CB	2.44	0.47
3:LA:44:ILE:CG2	3:LA:90:LEU:CD2	2.84	0.47
3:RA:88:ILE:HG21	12:RA:201:CYC:HAB2	1.96	0.47
3:TA:28:THR:HG23	2:X4:67:THR:O	2.13	0.47
2:O1:44:LEU:HD11	2:O1:142:LEU:HD11	1.96	0.47
12:B3:202:CYC:HMA2	11:a9:684:ASN:ND2	2.29	0.47
3:B4:82:CYS:HG	12:B4:202:CYC:H2C	1.76	0.47
3:B4:116:THR:CG2	4:M4:56:MET:CG	2.89	0.47
4:M3:176:ARG:CG	4:M3:176:ARG:NH1	2.70	0.47
2:W3:30:ARG:HD3	2:W3:30:ARG:C	2.39	0.47
2:G4:38:MET:HE2	2:G4:38:MET:HB3	1.81	0.47
4:M4:74:LEU:O	4:M4:77:LEU:HD11	2.15	0.47
2:N4:34:ALA:CB	3:O4:31:VAL:HG21	2.44	0.47
2:N4:119:THR:HG21	3:Q4:83:LEU:HD22	1.97	0.47
8:K5:116:TYR:O	8:K5:120:GLN:N	2.48	0.47
1:N5:87:TYR:OH	10:k5:483:PHE:HE2	1.95	0.47
8:A5:126:VAL:HG22	12:A5:201:CYC:CBC	2.45	0.47
8:C5:2:SER:O	8:C5:100:ASP:CB	2.62	0.47
8:E5:116:TYR:O	8:E5:120:GLN:N	2.48	0.47
1:P5:89:LEU:HD22	1:P5:133:MET:CE	2.44	0.47
1:T5:12:TYR:CZ	1:T5:23:ALA:HB2	2.50	0.47
6:M6:69:ALA:CB	3:H6:14:LEU:HD11	2.45	0.47
12:N6:101:CYC:HAB2	3:B6:88:ILE:HG21	1.96	0.47
9:i5:15:LYS:C	9:i5:15:LYS:CD	2.88	0.47
10:j5:19:THR:HB	10:j5:173:ALA:HB2	1.97	0.47
10:j5:28:ILE:HD13	10:j5:28:ILE:HG21	1.59	0.47
10:j5:275:THR:HG21	10:j5:286:VAL:C	2.40	0.47
10:j5:275:THR:HG21	10:j5:286:VAL:HG12	1.86	0.47
10:j5:822:ARG:HA	1:H7:106:GLU:HG2	1.96	0.47
10:j5:1089:LEU:HD22	10:j5:1089:LEU:C	2.39	0.47
10:k5:214:PHE:N	10:k5:214:PHE:CD1	2.83	0.47
10:k5:1013:PRO:O	10:k5:1014:SER:C	2.58	0.47
12:F7:201:CYC:HMA3	12:F7:201:CYC:NB	2.29	0.47
1:J7:89:LEU:HD22	1:J7:133:MET:CE	2.44	0.47
8:i7:37:LEU:CD2	1:j7:31:PHE:CE2	2.97	0.47
12:j7:201:CYC:HBB2	9:y7:42:GLN:CD	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X7:89:LEU:HD22	1:X7:133:MET:CE	2.44	0.47
8:a7:2:SER:O	8:a7:100:ASP:CB	2.63	0.47
2:A8:5:ILE:HG21	3:B8:99:ALA:HA	1.96	0.47
2:A8:34:ALA:CB	3:B8:31:VAL:HG11	2.39	0.47
3:B8:75:PRO:CB	12:E8:201:CYC:HBB2	2.44	0.47
8:q7:54:ALA:HB2	8:q7:133:MET:HG2	1.96	0.47
8:q7:82:LEU:CD1	11:aA:52:MET:SD	3.03	0.47
12:r7:201:CYC:HMA3	12:r7:201:CYC:NB	2.29	0.47
8:s7:21:GLY:C	8:s7:23:LEU:N	2.72	0.47
8:u7:30:VAL:CA	1:v7:31:PHE:CD1	2.86	0.47
3:U8:108:ARG:CG	4:M8:246:ALA:HB2	2.40	0.47
3:F8:107:ASP:OD1	3:F8:108:ARG:N	2.48	0.47
4:M8:226:SER:HG	3:Y8:88:ILE:HG12	1.77	0.47
3:Q8:117:TYR:O	3:Q8:120:LEU:CG	2.53	0.47
3:F1:84:ARG:NH2	4:M1:35:THR:OG1	2.48	0.47
3:F1:113:LEU:HD13	4:M1:38:PRO:HB2	1.97	0.47
3:L9:48:ALA:HB1	2:K9:18:PHE:HE2	1.67	0.47
4:M9:16:LYS:HA	4:M9:46:VAL:HA	1.96	0.47
4:M9:160:THR:CG2	4:M9:257:GLN:CG	2.93	0.47
2:A9:59:VAL:HG12	2:A9:66:LEU:HD13	1.96	0.47
11:a9:617:ALA:O	11:a9:620:ALA:HA	2.14	0.47
11:a9:818:ARG:HD2	11:a9:818:ARG:HA	1.57	0.47
11:aA:504:VAL:HG12	11:aA:505:PRO:HD2	1.97	0.47
11:aA:817:LEU:HD12	3:L1:119:ALA:C	2.28	0.47
11:aA:817:LEU:O	11:aA:818:ARG:C	2.52	0.47
3:H1:84:ARG:NH2	12:H1:201:CYC:C1A	2.78	0.47
5:N1:57:MET:CE	5:N1:67:ILE:HG13	2.44	0.47
2:C2:30:ARG:C	2:C2:30:ARG:HD3	2.39	0.47
1:A:12:TYR:CZ	1:A:23:ALA:HB2	2.50	0.47
3:FA:151:GLY:N	3:F9:150:ARG:CZ	2.51	0.47
2:GA:128:ILE:HG22	2:GA:132:LYS:HE3	1.97	0.47
12:GA:201:CYC:HBB2	3:LA:75:PRO:CB	2.44	0.47
3:HA:75:PRO:CB	12:IA:201:CYC:HBB2	2.44	0.47
4:MA:204:ILE:HG22	4:MA:204:ILE:O	2.14	0.47
2:QA:21:ASN:CB	2:UA:153:TYR:CZ	2.98	0.47
2:QA:25:GLN:HE22	2:UA:100:GLY:HA2	1.80	0.47
2:A1:16:GLY:CA	11:aA:677:GLN:CD	2.80	0.47
3:H2:84:ARG:O	3:H2:86:MET:N	2.45	0.47
2:I2:30:ARG:HD3	2:I2:30:ARG:C	2.39	0.47
6:M2:28:ASN:O	8:O5:79:ALA:HB1	2.15	0.47
2:A3:34:ALA:CB	3:B3:31:VAL:HG21	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:44:LEU:HD11	2:A4:142:LEU:HD11	1.97	0.47
4:M3:160:THR:CG2	4:M3:257:GLN:CG	2.93	0.47
2:U3:46:SER:C	2:Q9:74:TYR:CE2	2.93	0.47
3:U4:75:PRO:CB	12:V4:201:CYC:HBB2	2.44	0.47
3:U4:88:ILE:HG21	12:U4:201:CYC:HAB2	1.96	0.47
3:W4:75:PRO:CB	12:X4:201:CYC:HBB2	2.45	0.47
2:N4:64:PRO:C	2:N4:66:LEU:N	2.71	0.47
3:O4:111:ASN:ND2	5:Z4:66:ARG:HB2	2.30	0.47
2:R4:30:ARG:HD3	2:R4:30:ARG:C	2.39	0.47
8:K5:25:ARG:HH22	8:U5:6:LYS:HD3	1.80	0.47
8:A5:125:ALA:HB3	12:A5:201:CYC:CMC	2.45	0.47
8:E5:72:ALA:HB2	12:E5:201:CYC:OC	2.15	0.47
8:E5:113:LYS:O	8:E5:117:ASN:CG	2.58	0.47
1:F5:89:LEU:HD22	1:F5:133:MET:CE	2.44	0.47
12:F5:201:CYC:HMA2	10:k5:591:ILE:HG23	1.88	0.47
12:F5:201:CYC:CMA	12:F5:201:CYC:NB	2.74	0.47
8:G5:68:PRO:HB2	8:U5:63:PRO:HG2	1.97	0.47
12:J5:201:CYC:HMA3	12:J5:201:CYC:NB	2.29	0.47
12:T5:201:CYC:CMA	12:T5:201:CYC:NB	2.74	0.47
6:M6:43:TRP:CZ3	8:c7:52:LYS:CB	2.98	0.47
6:M6:283:VAL:HG22	6:M6:284:SER:N	2.30	0.47
10:j5:45:GLN:O	10:j5:49:ASP:OD1	2.33	0.47
10:j5:59:LYS:O	10:j5:63:ASN:OD1	2.33	0.47
10:j5:641:ASP:HB3	10:j5:643:VAL:H	1.79	0.47
10:j5:750:ARG:HH11	10:j5:750:ARG:CG	2.25	0.47
10:j5:1129:ARG:HA	10:j5:1133:GLU:HB3	1.96	0.47
10:k5:59:LYS:O	10:k5:63:ASN:OD1	2.33	0.47
10:k5:767:LEU:CD2	10:k5:767:LEU:C	2.84	0.47
10:k5:822:ARG:HD2	1:B7:106:GLU:OE2	2.15	0.47
2:C6:30:ARG:HD3	2:C6:30:ARG:C	2.39	0.47
3:D6:88:ILE:HG21	12:D6:201:CYC:HAB2	1.96	0.47
1:R7:89:LEU:HD22	1:R7:133:MET:CE	2.44	0.47
12:R7:201:CYC:HMA3	12:R7:201:CYC:NB	2.29	0.47
12:B7:201:CYC:HMD1	12:B7:201:CYC:NC	2.09	0.47
1:D7:75:THR:HG21	8:E7:112:VAL:HB	1.97	0.47
8:G7:54:ALA:HB2	8:G7:133:MET:HG2	1.96	0.47
8:G7:86:ASP:CB	11:a9:579:PHE:HZ	2.17	0.47
1:J7:12:TYR:CZ	1:J7:23:ALA:HB2	2.50	0.47
8:a7:2:SER:C	8:a7:100:ASP:HB2	2.40	0.47
1:b7:89:LEU:HD22	1:b7:133:MET:CE	2.44	0.47
2:A8:44:LEU:HD11	2:A8:142:LEU:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C8:30:ARG:HD3	2:C8:30:ARG:C	2.39	0.47
3:D8:107:ASP:HB3	11:a9:109:ASN:CB	2.43	0.47
1:r7:89:LEU:HD22	1:r7:133:MET:CE	2.44	0.47
12:L9:202:CYC:CMA	11:a9:534:SER:HB2	2.44	0.47
12:C9:201:CYC:HBB2	3:F9:75:PRO:CB	2.45	0.47
11:a9:376:ALA:HB3	11:a9:504:VAL:H	1.79	0.47
11:a9:616:PRO:O	11:a9:616:PRO:HG2	2.14	0.47
11:a9:643:LEU:CD1	11:a9:766:ASN:HA	2.45	0.47
11:aA:412:VAL:HA	11:aA:415:GLU:OE2	2.15	0.47
11:aA:588:VAL:C	11:aA:590:PRO:HD2	2.30	0.47
11:aA:643:LEU:CD1	11:aA:689:VAL:HG23	2.43	0.47
11:aA:714:ARG:NH2	11:aA:810:GLN:OE1	2.45	0.47
12:J1:201:CYC:HC	12:J1:201:CYC:HMD3	1.78	0.47
2:K1:115:GLU:CD	2:K1:118:ARG:NH1	2.71	0.47
5:N1:22:LEU:HD21	5:N1:26:LEU:CD1	2.14	0.47
3:X1:75:PRO:CB	12:Y1:201:CYC:HBB2	2.45	0.47
12:C2:201:CYC:HBB2	3:F2:75:PRO:CB	2.44	0.47
2:AA:44:LEU:HD11	2:AA:142:LEU:HD11	1.96	0.46
2:EA:128:ILE:HG22	2:EA:132:LYS:HE3	1.98	0.46
3:JA:116:THR:CG2	11:aA:521:PHE:CD2	2.88	0.46
3:LA:107:ASP:O	3:LA:111:ASN:CB	2.64	0.46
2:OA:5:ILE:HG21	3:PA:99:ALA:HA	1.96	0.46
2:YA:38:MET:HE2	2:YA:38:MET:HB3	1.81	0.46
3:P1:88:ILE:HG21	12:P1:201:CYC:HAB2	1.95	0.46
3:B4:52:ILE:HD11	3:B4:87:GLU:HA	1.96	0.46
3:D4:52:ILE:HD11	3:D4:87:GLU:HA	1.95	0.46
3:L3:75:PRO:CG	11:a9:823:ILE:HD12	2.45	0.46
4:M3:74:LEU:O	4:M3:77:LEU:HD11	2.15	0.46
8:M5:107:ILE:CG1	1:N5:13:ASP:OD2	2.59	0.46
1:J5:76:ARG:HG3	1:J5:77:ARG:HG3	1.97	0.46
1:d5:12:TYR:CZ	1:d5:23:ALA:HB2	2.50	0.46
1:f5:114:GLU:HA	10:j5:491:THR:CG2	2.45	0.46
12:b5:201:CYC:HMA3	12:b5:201:CYC:NB	2.29	0.46
6:M6:53:LEU:HB3	8:c7:80:LEU:HD21	1.98	0.46
10:j5:794:ARG:HH21	12:T7:201:CYC:C4B	2.27	0.46
10:j5:871:GLU:O	10:j5:871:GLU:HG2	2.12	0.46
10:j5:1015:TYR:OH	8:q7:110:ILE:HG22	2.14	0.46
10:k5:352:ILE:HG22	10:k5:353:ASN:N	2.30	0.46
10:k5:471:PRO:O	10:k5:501:ILE:CG1	2.57	0.46
10:k5:1052:PRO:HB3	11:a9:32:ARG:HH21	1.70	0.46
1:R7:53:LYS:NZ	8:M7:120:GLN:CG	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j7:76:ARG:HB2	8:e7:110:ILE:HG13	1.96	0.46
8:Y7:112:VAL:N	1:d7:75:THR:HB	2.29	0.46
8:a7:48:GLU:O	11:a9:318:TRP:HZ3	1.98	0.46
8:c7:11:ALA:HB1	1:d7:94:TYR:HH	1.79	0.46
2:A8:38:MET:HE2	2:A8:38:MET:HB3	1.81	0.46
8:o7:130:VAL:HG21	8:o7:160:MET:HE3	1.97	0.46
8:q7:76:LYS:NZ	11:aA:604:ALA:HB1	2.30	0.46
1:v7:3:ASP:H	1:v7:6:THR:HG1	1.61	0.46
3:J8:108:ARG:NE	11:a9:171:ARG:O	2.48	0.46
3:L8:68:ARG:CD	11:a9:82:GLN:N	2.62	0.46
2:N8:110:VAL:O	2:N8:111:ALA:C	2.56	0.46
3:L9:107:ASP:O	11:a9:531:ASP:HB2	2.15	0.46
4:M9:95:ALA:HB2	5:N9:38:GLU:OE1	2.16	0.46
5:N9:57:MET:CE	5:N9:67:ILE:HG13	2.44	0.46
5:Z8:23:SER:C	5:Z8:25:THR:N	2.73	0.46
2:E9:128:ILE:HG22	2:E9:132:LYS:HE3	1.98	0.46
3:J9:75:PRO:CB	12:K9:201:CYC:HBB2	2.45	0.46
2:S9:128:ILE:HG22	2:S9:132:LYS:HE3	1.97	0.46
11:aA:616:PRO:HG2	11:aA:616:PRO:O	2.14	0.46
11:aA:643:LEU:CD1	11:aA:766:ASN:HA	2.44	0.46
11:aA:801:ASN:HB3	11:aA:807:GLN:HE21	1.79	0.46
3:J1:75:PRO:CB	12:K1:201:CYC:HBB2	2.44	0.46
3:L1:52:ILE:HD11	3:L1:87:GLU:HA	1.96	0.46
4:M1:45:VAL:O	4:M1:45:VAL:HG12	2.14	0.46
3:JA:114:LYS:HG2	8:S7:60:GLN:HE22	1.60	0.46
12:LA:202:CYC:NB	11:aA:404:TYR:CE1	2.83	0.46
4:MA:200:ILE:HD13	4:MA:200:ILE:HA	1.54	0.46
4:MA:274:VAL:H	3:VA:77:ARG:CG	2.15	0.46
2:QA:116:VAL:CG1	3:TA:79:MET:HG3	2.37	0.46
12:P1:201:CYC:O2A	4:M1:130:SER:CA	2.59	0.46
2:A1:64:PRO:C	2:A1:66:LEU:H	2.22	0.46
12:G3:201:CYC:HBB2	3:L3:75:PRO:CB	2.44	0.46
12:C3:201:CYC:HBB2	3:F3:75:PRO:CB	2.44	0.46
2:A4:59:VAL:O	2:A4:66:LEU:CD1	2.62	0.46
3:B4:97:LEU:HA	3:B4:163:TYR:CE2	2.50	0.46
3:B4:112:GLY:C	3:B4:114:LYS:N	2.67	0.46
4:M3:51:ARG:HH11	4:M3:51:ARG:CG	2.27	0.46
4:M3:232:VAL:HG21	3:V3:113:LEU:CB	2.45	0.46
4:M3:252:LEU:HD12	12:X3:201:CYC:O1D	2.06	0.46
2:O3:44:LEU:HD11	2:O3:142:LEU:HD11	1.96	0.46
2:S3:30:ARG:HD3	2:S3:30:ARG:C	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:45:VAL:O	4:M4:45:VAL:HG12	2.14	0.46
4:M4:152:TYR:CD1	4:M4:152:TYR:O	2.69	0.46
2:N4:13:ASP:OD2	3:O4:108:ARG:CD	2.64	0.46
2:N4:128:ILE:HG22	2:N4:132:LYS:HE3	1.98	0.46
5:Z4:39:PRO:HG3	12:Z4:301:CYC:HHD	1.95	0.46
1:D5:75:THR:HB	8:E5:111:GLY:C	2.41	0.46
12:H5:201:CYC:HMA3	12:H5:201:CYC:NB	2.30	0.46
8:I5:130:VAL:HG12	8:I5:157:VAL:HG23	1.96	0.46
1:f5:3:ASP:H	1:f5:6:THR:HG1	1.60	0.46
1:R5:87:TYR:HE1	10:k5:521:GLY:CA	2.28	0.46
8:U5:76:LYS:HG3	8:U5:77:MET:CA	2.43	0.46
8:Y5:39:ILE:HG12	8:Y5:145:ASP:HB3	1.95	0.46
8:a5:2:SER:C	8:a5:100:ASP:HB2	2.40	0.46
9:z5:18:ARG:HB3	9:z5:22:GLU:CD	2.30	0.46
10:j5:66:MET:O	10:j5:70:ARG:HD3	2.15	0.46
10:j5:140:PHE:O	10:j5:140:PHE:CG	2.68	0.46
10:k5:66:MET:O	10:k5:70:ARG:HD3	2.15	0.46
10:k5:361:PHE:CZ	10:k5:378:TYR:CE2	3.03	0.46
10:k5:966:SER:HB2	1:p7:14:VAL:HG11	1.83	0.46
2:A6:34:ALA:HB3	3:B6:31:VAL:CG1	2.39	0.46
3:D1:52:ILE:HD11	3:D1:87:GLU:HA	1.95	0.46
1:P7:12:TYR:CZ	1:P7:23:ALA:HB2	2.50	0.46
1:P7:75:THR:HG21	8:Q7:112:VAL:HB	1.96	0.46
8:S7:54:ALA:HB2	8:S7:133:MET:HG2	1.96	0.46
8:g7:2:SER:C	8:g7:100:ASP:HB2	2.40	0.46
1:V7:12:TYR:CZ	1:V7:23:ALA:HB2	2.50	0.46
8:c7:122:PRO:C	8:c7:125:ALA:H	2.23	0.46
1:r7:12:TYR:CZ	1:r7:23:ALA:HB2	2.50	0.46
8:s7:130:VAL:HG12	8:s7:157:VAL:HG23	1.96	0.46
8:u7:5:THR:OG1	1:v7:6:THR:HG23	2.12	0.46
9:w7:29:THR:HG22	9:w7:30:LYS:N	2.31	0.46
4:M8:160:THR:CG2	4:M8:257:GLN:CG	2.93	0.46
2:N8:34:ALA:CB	3:O8:31:VAL:HG11	2.38	0.46
2:P8:128:ILE:HG22	2:P8:132:LYS:HE3	1.97	0.46
4:M9:29:PRO:HB2	11:a9:375:GLN:HG3	1.97	0.46
3:B9:75:PRO:CB	12:E9:201:CYC:HBB2	2.45	0.46
12:J9:202:CYC:HB	11:a9:512:TYR:CA	2.25	0.46
2:K9:128:ILE:HG22	2:K9:132:LYS:HE3	1.98	0.46
11:a9:642:GLU:HG3	11:a9:643:LEU:N	2.29	0.46
11:a9:817:LEU:HD23	11:a9:817:LEU:HA	1.50	0.46
4:M1:164:ARG:O	4:M1:164:ARG:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N1:37:HIS:CD2	5:N1:38:GLU:O	2.69	0.46
1:Z:161:SER:CB	1:X5:14:VAL:CB	2.37	0.46
2:AA:5:ILE:HG21	3:BA:99:ALA:HA	1.96	0.46
2:KA:18:PHE:HZ	3:LA:90:LEU:HD22	1.80	0.46
4:MA:176:ARG:HG2	4:MA:176:ARG:O	2.13	0.46
3:PA:88:ILE:HG21	12:PA:201:CYC:HAB2	1.95	0.46
2:QA:33:ARG:HB2	2:UA:25:GLN:HG2	1.96	0.46
12:RA:202:CYC:HC	12:RA:202:CYC:HMD3	1.78	0.46
12:R1:202:CYC:HC	12:R1:202:CYC:HMD3	1.78	0.46
3:B3:88:ILE:HG22	12:B3:202:CYC:HMB1	1.96	0.46
3:D4:108:ARG:CD	11:aA:107:ARG:CZ	2.36	0.46
4:M3:152:TYR:CD1	4:M3:152:TYR:O	2.69	0.46
2:O3:5:ILE:HG21	3:P3:99:ALA:HA	1.96	0.46
12:W4:202:CYC:HC	12:W4:202:CYC:HMD3	1.77	0.46
4:M4:95:ALA:HB2	5:Z4:38:GLU:CB	2.37	0.46
4:M4:164:ARG:O	4:M4:164:ARG:HG3	2.15	0.46
4:M4:214:GLY:CA	5:Z4:28:HIS:ND1	2.79	0.46
3:O4:88:ILE:HG21	12:O4:201:CYC:HAB2	1.95	0.46
3:O4:108:ARG:HG2	3:O4:108:ARG:O	2.15	0.46
12:O4:202:CYC:CMD	12:O4:202:CYC:NC	2.75	0.46
2:R4:128:ILE:HG22	2:R4:132:LYS:HE3	1.98	0.46
8:K5:113:LYS:O	8:K5:117:ASN:CG	2.58	0.46
1:N5:89:LEU:HD22	1:N5:133:MET:CE	2.45	0.46
8:O5:151:PHE:HB3	8:E5:20:PRO:CB	2.28	0.46
8:A5:107:ILE:O	12:A5:201:CYC:HAB2	2.14	0.46
8:C5:6:LYS:O	8:C5:6:LYS:HG3	2.15	0.46
12:X5:201:CYC:CMA	12:X5:201:CYC:NB	2.74	0.46
12:b5:201:CYC:HMD1	12:b5:201:CYC:NC	2.09	0.46
3:J6:75:PRO:CB	12:K6:201:CYC:HBB2	2.45	0.46
6:M6:268:LYS:O	1:d7:158:SER:HB3	2.15	0.46
10:j5:564:VAL:O	10:j5:564:VAL:HG12	2.14	0.46
10:j5:935:LEU:HD13	1:J7:29:ALA:HB2	0.74	0.46
10:j5:990:ARG:CG	10:j5:990:ARG:NH1	2.72	0.46
10:j5:1067:LEU:HD13	10:j5:1101:GLU:CG	2.41	0.46
10:k5:284:PRO:CG	10:k5:326:GLY:HA2	2.19	0.46
10:k5:305:PHE:CE2	10:k5:337:LEU:HD23	2.51	0.46
10:k5:348:TYR:CD1	10:k5:398:LEU:HD13	2.50	0.46
10:k5:1009:ALA:HA	1:p7:87:TYR:CE1	2.50	0.46
10:k5:1019:SER:C	10:k5:1021:ALA:H	2.23	0.46
10:k5:1124:TYR:CE2	1:n7:119:LEU:HD21	2.49	0.46
10:k5:1140:TRP:O	11:a9:32:ARG:NH2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:k5:1204:CYC:HMD1	12:k5:1204:CYC:NC	2.09	0.46
3:H6:52:ILE:HD11	3:H6:87:GLU:HA	1.95	0.46
3:D1:108:ARG:O	4:M1:60:LYS:HD3	2.16	0.46
3:D1:111:ASN:HD21	4:M1:65:ARG:HD2	1.80	0.46
8:O7:25:ARG:HH22	8:E7:25:ARG:NE	2.14	0.46
8:Q7:13:ALA:N	9:z7:46:LYS:CE	2.77	0.46
8:S7:49:ARG:NH2	11:aA:553:SER:HB2	2.30	0.46
8:I7:2:SER:O	8:I7:100:ASP:CB	2.62	0.46
8:i7:3:VAL:HG22	8:s7:25:ARG:NH2	2.29	0.46
8:Y7:54:ALA:HB2	8:Y7:133:MET:HG2	1.96	0.46
12:b7:201:CYC:HMA3	12:b7:201:CYC:NB	2.29	0.46
8:e7:75:GLU:HG2	8:e7:76:LYS:N	2.30	0.46
8:o7:97:VAL:HG22	1:p7:19:LEU:HD11	1.93	0.46
9:x7:34:TYR:CD1	9:x7:34:TYR:O	2.68	0.46
9:y7:3:ARG:NH1	9:y7:67:VAL:CG1	2.71	0.46
2:G8:30:ARG:HD3	2:G8:30:ARG:C	2.39	0.46
4:M8:233:GLU:HG3	3:Y8:112:GLY:CA	2.27	0.46
3:Q8:116:THR:O	5:Z8:40:SER:HA	2.15	0.46
4:M9:152:TYR:CD1	4:M9:152:TYR:O	2.69	0.46
2:O9:34:ALA:HB3	3:P9:31:VAL:CG1	2.39	0.46
2:A9:64:PRO:C	2:A9:66:LEU:H	2.23	0.46
3:B9:30:LEU:CD1	3:B9:30:LEU:H	2.28	0.46
11:a9:823:ILE:O	11:a9:824:VAL:OXT	2.32	0.46
11:aA:668:TYR:CD1	3:J1:84:ARG:HB2	2.51	0.46
11:aA:694:ARG:HH12	4:M1:51:ARG:HH22	1.56	0.46
11:aA:803:ASN:HB3	3:J1:119:ALA:HB1	1.97	0.46
3:BA:30:LEU:CD1	3:BA:30:LEU:H	2.28	0.46
3:BA:75:PRO:CB	12:EA:201:CYC:HBB2	2.45	0.46
3:FA:150:ARG:HD2	3:F9:150:ARG:HG2	1.83	0.46
5:NA:57:MET:CE	5:NA:67:ILE:HG13	2.45	0.46
2:QA:81:LYS:HE2	3:TA:67:ILE:HD12	1.96	0.46
2:UA:128:ILE:HG22	2:UA:132:LYS:HE3	1.98	0.46
2:A1:25:GLN:HG2	2:K1:33:ARG:CG	2.38	0.46
3:H2:14:LEU:CG	6:M2:69:ALA:HB2	2.45	0.46
3:L2:78:ARG:HH22	6:M2:70:GLU:N	2.13	0.46
6:M2:50:LEU:HD21	8:i7:79:ALA:CA	2.46	0.46
6:M2:62:ARG:CZ	1:h7:58:LYS:HA	2.34	0.46
2:A3:44:LEU:HD11	2:A3:142:LEU:HD11	1.96	0.46
3:B3:92:TYR:CE2	12:B3:202:CYC:HBB1	2.50	0.46
3:F3:84:ARG:NH2	4:M3:35:THR:OG1	2.48	0.46
3:Z3:75:PRO:CB	12:U3:201:CYC:HBB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:19:LEU:O	3:B4:45:THR:CG2	2.64	0.46
2:A4:128:ILE:HG22	2:A4:132:LYS:HE3	1.98	0.46
5:N3:14:LYS:HE3	5:N3:50:LEU:CD2	2.45	0.46
12:F4:201:CYC:CMD	12:F4:201:CYC:NC	2.75	0.46
4:M4:131:LEU:HB3	4:M4:137:ILE:HG12	1.98	0.46
4:M4:205:ASP:CG	5:Z4:59:ARG:HE	2.23	0.46
4:M4:215:GLU:OE1	12:Z4:301:CYC:CAB	2.60	0.46
4:M4:215:GLU:CB	5:Z4:28:HIS:N	2.73	0.46
3:O4:104:VAL:CA	5:Z4:61:LYS:CE	2.94	0.46
2:X4:18:PHE:CZ	3:Y4:91:ARG:HG2	2.51	0.46
8:E5:17:TYR:CG	1:F5:45:SER:CB	2.99	0.46
8:E5:72:ALA:HB2	12:E5:201:CYC:NC	2.30	0.46
1:H5:2:GLN:NE2	10:j5:551:MET:HG2	2.30	0.46
8:I5:6:LYS:O	8:I5:6:LYS:HG3	2.15	0.46
12:d5:201:CYC:HMD1	12:d5:201:CYC:NC	2.09	0.46
8:Q5:11:ALA:HB1	1:R5:94:TYR:CZ	2.30	0.46
3:L6:132:GLN:CD	1:d7:15:GLN:OE1	2.58	0.46
10:j5:283:ARG:CB	10:j5:284:PRO:CD	2.76	0.46
10:j5:1004:VAL:O	10:j5:1004:VAL:HG12	2.14	0.46
10:j5:1019:SER:C	10:j5:1021:ALA:H	2.23	0.46
10:j5:1119:LEU:HD11	12:j5:1202:CYC:CBB	2.45	0.46
10:k5:764:PHE:CD1	10:k5:764:PHE:C	2.94	0.46
10:k5:779:ASP:OD2	12:F7:201:CYC:CMA	2.40	0.46
10:k5:822:ARG:HA	1:B7:106:GLU:HG2	1.96	0.46
10:k5:971:VAL:HG13	1:n7:76:ARG:NH1	2.29	0.46
8:I7:2:SER:C	8:I7:100:ASP:HB2	2.40	0.46
12:h7:201:CYC:CMA	12:h7:201:CYC:NB	2.74	0.46
12:j7:201:CYC:CMA	12:j7:201:CYC:NB	2.74	0.46
8:a7:62:ARG:HA	11:a9:336:ILE:CG2	2.45	0.46
8:a7:90:ARG:NH1	1:b7:16:GLY:CA	2.74	0.46
8:a7:97:VAL:HG21	1:b7:19:LEU:HD11	1.96	0.46
2:E1:128:ILE:HG22	2:E1:132:LYS:HE3	1.98	0.46
2:A8:33:ARG:NH1	12:L8:201:CYC:C4B	2.44	0.46
8:q7:52:LYS:HB3	8:q7:52:LYS:HE2	1.41	0.46
9:x7:9:ALA:HB2	9:x7:44:ILE:CD1	2.42	0.46
9:y7:34:TYR:CD1	9:y7:34:TYR:O	2.68	0.46
2:X8:128:ILE:HG22	2:X8:132:LYS:HE3	1.98	0.46
3:F8:116:THR:N	4:M8:3:VAL:HG12	2.29	0.46
12:J8:202:CYC:CMD	12:J8:202:CYC:NC	2.75	0.46
4:M8:211:GLN:O	5:Z8:28:HIS:CE1	2.68	0.46
4:M8:231:THR:H	12:M8:301:CYC:C3B	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R8:128:ILE:HG22	2:R8:132:LYS:HE3	1.97	0.46
4:M9:103:GLN:O	4:M9:103:GLN:HG3	2.16	0.46
5:N9:14:LYS:HE3	5:N9:50:LEU:CD2	2.45	0.46
5:N9:37:HIS:CD2	5:N9:38:GLU:O	2.69	0.46
2:G9:128:ILE:HG22	2:G9:132:LYS:HE3	1.97	0.46
11:a9:504:VAL:HG12	11:a9:505:PRO:HD2	1.97	0.46
11:aA:581:ARG:NH1	11:aA:581:ARG:CG	2.72	0.46
2:I1:128:ILE:HG22	2:I1:132:LYS:HE3	1.98	0.46
4:M1:131:LEU:HB3	4:M1:137:ILE:HG12	1.98	0.46
3:B2:75:PRO:CB	12:E2:201:CYC:HBB2	2.44	0.46
2:C2:128:ILE:HG22	2:C2:132:LYS:HE3	1.98	0.46
1:Z:107:ARG:NH1	8:e5:9:VAL:HG22	2.30	0.46
2:EA:152:ALA:HB3	2:IA:21:ASN:OD1	2.14	0.46
4:MA:164:ARG:O	4:MA:164:ARG:HG3	2.15	0.46
5:NA:37:HIS:CD2	5:NA:38:GLU:O	2.69	0.46
2:OA:19:LEU:O	3:PA:45:THR:CG2	2.64	0.46
3:TA:28:THR:CB	2:X4:67:THR:OG1	2.60	0.46
12:H2:201:CYC:O1D	6:M2:249:ARG:HB3	2.15	0.46
3:D3:108:ARG:O	4:M3:60:LYS:HD3	2.16	0.46
2:A4:64:PRO:C	2:A4:66:LEU:N	2.71	0.46
3:L3:75:PRO:CD	11:a9:823:ILE:HG13	2.35	0.46
2:Y3:128:ILE:HG22	2:Y3:132:LYS:HE3	1.98	0.46
2:T4:128:ILE:HG22	2:T4:132:LYS:HE3	1.98	0.46
3:L4:68:ARG:CG	11:aA:81:ASP:HA	2.30	0.46
3:L4:88:ILE:HG12	11:aA:239:TYR:OH	2.16	0.46
4:M4:225:LYS:CD	3:Y4:81:ALA:CB	2.93	0.46
5:Z4:14:LYS:HE3	5:Z4:50:LEU:CD2	2.45	0.46
8:E5:96:ILE:HD13	8:E5:96:ILE:HG21	1.60	0.46
8:G5:125:ALA:HB3	12:G5:201:CYC:CMC	2.45	0.46
8:c5:59:PHE:HD2	6:M6:12:ILE:HD13	1.79	0.46
1:d5:61:ILE:O	10:j5:712:ARG:NH2	2.49	0.46
1:P5:107:ARG:NE	10:k5:619:GLU:O	2.48	0.46
1:V5:83:ARG:HH12	10:j5:649:PHE:HE2	0.84	0.46
1:V5:114:GLU:OE1	10:j5:496:GLU:HA	2.14	0.46
8:W5:17:TYR:N	1:X5:90:ARG:HH11	2.13	0.46
1:X5:50:THR:OG1	8:a5:49:ARG:NH2	2.49	0.46
6:M6:45:ILE:HD12	8:c7:78:THR:CG2	2.37	0.46
6:M6:259:THR:C	6:M6:261:LYS:N	2.74	0.46
9:i5:27:PHE:C	9:i5:27:PHE:CD1	2.93	0.46
10:j5:761:ARG:C	10:j5:761:ARG:CD	2.87	0.46
10:j5:990:ARG:CZ	10:j5:1026:LYS:NZ	2.67	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1050:PHE:CD2	10:j5:1058:VAL:HG11	2.45	0.46
10:k5:612:ILE:N	10:k5:612:ILE:CD1	2.73	0.46
10:k5:1004:VAL:O	10:k5:1004:VAL:HG12	2.14	0.46
10:k5:1067:LEU:HD11	10:k5:1101:GLU:CG	2.14	0.46
10:k5:1145:PRO:O	1:l7:14:VAL:CG1	2.64	0.46
2:C6:38:MET:HE2	2:C6:38:MET:HB3	1.81	0.46
2:C6:128:ILE:HG22	2:C6:132:LYS:HE3	1.98	0.46
8:C7:21:GLY:C	8:C7:23:LEU:N	2.72	0.46
1:N7:89:LEU:HD22	1:N7:133:MET:CE	2.44	0.46
1:T7:12:TYR:CZ	1:T7:23:ALA:HB2	2.50	0.46
8:Y7:134:LYS:O	8:Y7:138:THR:HB	2.16	0.46
8:a7:90:ARG:HH12	1:b7:16:GLY:HA2	1.79	0.46
8:c7:24:ASP:CG	8:m7:36:ARG:HH12	2.24	0.46
8:c7:58:LEU:HD13	8:c7:128:GLU:CB	2.46	0.46
8:m7:17:TYR:OH	1:n7:89:LEU:HG	2.16	0.46
8:o7:30:VAL:HB	1:p7:31:PHE:HB3	1.97	0.46
8:u7:39:ILE:O	8:u7:39:ILE:HG22	2.15	0.46
2:T8:128:ILE:HG22	2:T8:132:LYS:HE3	1.98	0.46
4:M8:147:ALA:HB2	4:M8:173:PHE:CZ	2.49	0.46
3:L9:83:LEU:HD23	3:L9:83:LEU:HA	1.53	0.46
4:M9:34:ASP:O	12:B9:201:CYC:O2A	2.33	0.46
4:M9:38:PRO:CB	3:B9:113:LEU:HD13	2.45	0.46
4:M9:160:THR:C	3:V9:108:ARG:HA	2.41	0.46
2:O9:128:ILE:HG22	2:O9:132:LYS:HE3	1.98	0.46
5:Z8:42:SER:C	12:Z8:301:CYC:HMA2	2.30	0.46
3:F9:36:LYS:HE2	3:F9:156:LEU:CD1	2.44	0.46
12:F9:302:CYC:HC	12:F9:302:CYC:HMD3	1.78	0.46
2:K9:25:GLN:O	2:K9:26:ALA:O	2.28	0.46
11:a9:426:ARG:NH2	11:a9:496:ARG:CZ	2.78	0.46
11:aA:98:ILE:N	11:aA:98:ILE:HD13	2.30	0.46
11:aA:426:ARG:HH21	11:aA:496:ARG:CZ	2.29	0.46
11:aA:426:ARG:NH2	11:aA:496:ARG:CZ	2.78	0.46
11:aA:579:PHE:O	11:aA:580:THR:C	2.57	0.46
4:M1:19:MET:O	4:M1:42:SER:HA	2.16	0.46
4:M1:162:ASN:H	12:Z1:202:CYC:HBB3	1.81	0.46
4:M1:205:ASP:CG	5:N1:52:ARG:HH22	2.23	0.46
3:T1:88:ILE:HG21	12:T1:301:CYC:HAB2	1.96	0.46
2:A2:128:ILE:HG22	2:A2:132:LYS:HE3	1.98	0.46
12:AA:201:CYC:HBB2	3:DA:75:PRO:CB	2.45	0.46
12:DA:201:CYC:HB	12:DA:201:CYC:CMA	2.26	0.46
3:HA:108:ARG:NH2	11:aA:477:TYR:OH	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JA:75:PRO:CB	12:KA:201:CYC:HBB2	2.45	0.46
3:JA:88:ILE:HG21	12:JA:202:CYC:CAB	2.46	0.46
12:LA:202:CYC:CGD	11:aA:538:ARG:CB	2.93	0.46
4:MA:110:TYR:HE2	4:MA:124:ARG:NH1	2.13	0.46
6:M2:28:ASN:O	8:O5:79:ALA:CB	2.64	0.46
6:M2:50:LEU:HD23	8:i7:79:ALA:CB	2.42	0.46
6:M2:259:THR:C	6:M2:261:LYS:N	2.74	0.46
2:E3:128:ILE:HG22	2:E3:132:LYS:HE3	1.98	0.46
3:B4:85:ASP:OD2	4:M4:53:LEU:HD21	2.15	0.46
3:B4:119:ALA:C	4:M4:52:LEU:HD11	2.36	0.46
3:B4:120:LEU:HD23	4:M4:52:LEU:HB3	1.87	0.46
4:M3:110:TYR:HE2	4:M3:124:ARG:NH1	2.13	0.46
5:N3:16:PHE:CE1	3:R3:120:LEU:HD23	2.51	0.46
12:R3:202:CYC:HC	12:R3:202:CYC:HMD3	1.78	0.46
12:T4:201:CYC:HBB2	3:Y4:75:PRO:CB	2.44	0.46
2:P4:128:ILE:HG22	2:P4:132:LYS:HE3	1.97	0.46
8:K5:72:ALA:HB2	12:K5:201:CYC:NC	2.30	0.46
1:L5:42:ALA:HB2	8:U5:151:PHE:HE1	1.79	0.46
3:Y4:2:GLN:HB2	3:Y4:103:SER:HB2	1.94	0.46
12:D5:201:CYC:HMD1	12:D5:201:CYC:NC	2.10	0.46
8:E5:17:TYR:OH	1:F5:89:LEU:CG	2.62	0.46
1:P5:12:TYR:CZ	1:P5:23:ALA:HB2	2.50	0.46
8:U5:2:SER:C	8:U5:100:ASP:HB2	2.40	0.46
8:U5:2:SER:O	8:U5:100:ASP:CB	2.63	0.46
8:U5:22:GLU:HA	8:U5:25:ARG:HH11	1.81	0.46
12:V5:201:CYC:CBB	10:j5:623:VAL:CG2	2.89	0.46
8:a5:2:SER:O	8:a5:100:ASP:CB	2.62	0.46
3:J6:88:ILE:HG21	12:J6:202:CYC:CAB	2.46	0.46
6:M6:50:LEU:HD23	8:c7:79:ALA:C	2.37	0.46
9:z5:15:LYS:C	9:z5:15:LYS:CD	2.88	0.46
10:j5:357:LEU:HD11	10:j5:379:PHE:N	2.30	0.46
10:j5:930:LEU:CA	1:J7:33:THR:HG21	2.43	0.46
10:j5:1024:LYS:HD2	10:j5:1038:ARG:NH1	2.30	0.46
10:k5:275:THR:HG21	10:k5:286:VAL:C	2.40	0.46
10:k5:669:GLU:O	10:k5:669:GLU:HG2	2.15	0.46
10:k5:870:GLU:OE2	10:k5:870:GLU:HA	2.15	0.46
10:k5:878:GLU:CG	9:z7:28:PHE:CE2	2.99	0.46
10:k5:1129:ARG:HA	10:k5:1133:GLU:HB3	1.96	0.46
2:G6:128:ILE:HG22	2:G6:132:LYS:HE3	1.98	0.46
3:H6:84:ARG:C	3:H6:86:MET:N	2.74	0.46
8:S7:120:GLN:CD	1:X7:53:LYS:HZ2	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C7:94:TYR:O	8:C7:97:VAL:HG23	2.16	0.46
8:g7:21:GLY:C	8:g7:23:LEU:H	2.23	0.46
8:g7:134:LYS:O	8:g7:138:THR:HB	2.16	0.46
8:i7:47:ARG:CB	1:j7:18:TYR:HE2	2.26	0.46
8:a7:94:TYR:O	8:a7:97:VAL:HG23	2.16	0.46
8:c7:13:ALA:CA	9:x7:46:LYS:HE3	2.45	0.46
1:f7:12:TYR:CZ	1:f7:23:ALA:HB2	2.50	0.46
2:A8:19:LEU:O	3:B8:45:THR:CG2	2.64	0.46
3:B8:81:ALA:O	12:B8:202:CYC:C4C	2.63	0.46
12:C8:201:CYC:HBB2	3:F8:75:PRO:CB	2.44	0.46
2:E8:1:MET:CA	4:M8:10:ARG:HH21	2.20	0.46
8:o7:39:ILE:O	8:o7:39:ILE:HG22	2.15	0.46
2:G8:128:ILE:HG22	2:G8:132:LYS:HE3	1.98	0.46
3:O8:108:ARG:CB	5:Z8:61:LYS:CE	2.85	0.46
3:F1:113:LEU:HA	4:M1:38:PRO:HB2	1.98	0.46
4:M9:19:MET:O	4:M9:42:SER:HA	2.16	0.46
4:M9:176:ARG:HH11	4:M9:176:ARG:HG3	1.78	0.46
12:D9:202:CYC:HC	12:D9:202:CYC:HMD3	1.78	0.46
12:H9:202:CYC:OB	11:a9:448:ASN:CB	2.63	0.46
2:K9:15:GLN:HA	11:a9:393:ARG:NH1	2.00	0.46
11:a9:245:ALA:HB3	12:a9:901:CYC:HBB2	1.96	0.46
11:a9:802:ARG:HH11	11:a9:802:ARG:HG3	1.80	0.46
11:aA:376:ALA:HB3	11:aA:504:VAL:H	1.79	0.46
4:M1:152:TYR:CD1	4:M1:152:TYR:O	2.69	0.46
1:A:66:THR:HB	12:k5:1201:CYC:HBA1	1.98	0.46
2:AA:64:PRO:C	2:AA:66:LEU:H	2.23	0.46
2:CA:128:ILE:HG22	2:CA:132:LYS:HE3	1.98	0.46
2:EA:152:ALA:HB1	2:IA:21:ASN:OD1	2.16	0.46
3:LA:51:ILE:CG2	3:LA:90:LEU:HD13	2.45	0.46
4:MA:74:LEU:HD23	4:MA:74:LEU:HA	1.68	0.46
3:XA:75:PRO:CB	12:YA:201:CYC:HBB2	2.45	0.46
3:ZA:88:ILE:HG21	12:ZA:202:CYC:CAB	2.46	0.46
2:A1:34:ALA:CB	3:B1:31:VAL:HG11	2.38	0.46
3:J3:88:ILE:HG21	12:J3:202:CYC:CAB	2.46	0.46
7:N2:9:THR:HG23	7:N2:12:GLY:H	1.80	0.46
2:A3:64:PRO:C	2:A3:66:LEU:H	2.22	0.46
3:F3:119:ALA:HB3	4:M3:41:ASN:ND2	2.27	0.46
3:Z3:111:ASN:HD21	4:M3:258:LYS:HG2	1.81	0.46
12:A4:201:CYC:HBB2	3:D4:75:PRO:CB	2.44	0.46
4:M3:19:MET:O	4:M3:42:SER:HA	2.16	0.46
5:N3:15:LEU:O	5:N3:73:GLY:CA	2.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F4:107:ASP:OD1	3:F4:108:ARG:N	2.48	0.46
12:H4:201:CYC:HMA1	11:aA:261:SER:HB2	1.98	0.46
4:M4:233:GLU:HG3	3:Y4:112:GLY:H	1.81	0.46
3:Y4:96:ALA:HB2	3:Y4:105:LEU:HB2	1.98	0.46
1:D5:76:ARG:HG3	1:D5:77:ARG:HG3	1.97	0.46
8:c5:64:ASP:O	8:c5:67:SER:HB2	2.16	0.46
8:e5:16:ARG:HG3	8:e5:16:ARG:NH1	2.31	0.46
8:a5:16:ARG:HG3	8:a5:16:ARG:NH1	2.31	0.46
2:K6:128:ILE:HG22	2:K6:132:LYS:HE3	1.98	0.46
10:j5:501:ILE:H	10:j5:501:ILE:CD1	2.17	0.46
10:j5:651:ILE:HD13	10:j5:651:ILE:HG21	1.61	0.46
10:j5:885:GLN:HE21	10:j5:885:GLN:HB3	1.52	0.46
10:j5:1054:SER:C	10:j5:1056:PRO:CD	2.87	0.46
10:k5:357:LEU:HD11	10:k5:379:PHE:N	2.30	0.46
10:k5:802:VAL:O	10:k5:806:VAL:HG23	2.15	0.46
10:k5:826:THR:HG21	12:B7:201:CYC:CMA	2.43	0.46
8:O7:17:TYR:OH	1:P7:89:LEU:HG	2.16	0.46
8:O7:52:LYS:HB2	11:aA:27:PHE:CE2	2.50	0.46
8:Q7:134:LYS:O	8:Q7:138:THR:HB	2.16	0.46
1:B7:12:TYR:CZ	1:B7:23:ALA:HB2	2.50	0.46
8:I7:161:GLN:HG2	1:X7:49:THR:CB	2.44	0.46
8:K7:134:LYS:O	8:K7:138:THR:HB	2.16	0.46
8:g7:56:ASP:OD1	11:aA:325:LEU:CB	2.63	0.46
1:h7:51:ILE:HD11	1:h7:140:LEU:HD23	1.97	0.46
8:U7:17:TYR:OH	1:V7:89:LEU:HG	2.16	0.46
12:V7:201:CYC:CMA	12:V7:201:CYC:NB	2.74	0.46
8:c7:23:LEU:HD21	1:d7:41:ALA:HB3	1.97	0.46
2:A8:64:PRO:C	2:A8:66:LEU:H	2.23	0.46
3:B8:116:THR:HG23	4:M8:53:LEU:HA	1.89	0.46
8:m7:2:SER:C	8:m7:100:ASP:HB2	2.40	0.46
1:t7:12:TYR:CZ	1:t7:23:ALA:HB2	2.50	0.46
2:X8:33:ARG:CG	2:N8:25:GLN:HG2	2.38	0.46
4:M8:230:GLN:NE2	12:M8:301:CYC:CMA	2.76	0.46
2:N8:19:LEU:O	3:O8:45:THR:CG2	2.64	0.46
2:R8:64:PRO:CB	3:T9:21:GLU:HB3	2.43	0.46
3:L9:107:ASP:O	3:L9:111:ASN:CB	2.64	0.46
4:M9:74:LEU:O	4:M9:77:LEU:HD11	2.15	0.46
2:O9:19:LEU:O	3:P9:45:THR:CG2	2.64	0.46
3:J9:68:ARG:CB	11:a9:353:ALA:CB	2.93	0.46
12:J9:202:CYC:O2A	11:a9:511:LYS:CD	2.60	0.46
11:a9:98:ILE:N	11:a9:98:ILE:HD13	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:312:ASP:C	11:a9:315:LEU:HB3	2.33	0.46
11:a9:320:ASP:HA	11:a9:323:ARG:HG2	1.98	0.46
11:a9:729:TYR:CD1	11:a9:784:VAL:HG21	2.51	0.46
11:aA:823:ILE:HD12	3:L1:75:PRO:HG3	1.97	0.46
12:aA:901:CYC:CAB	3:J1:88:ILE:HG21	2.46	0.46
2:K1:128:ILE:HG22	2:K1:132:LYS:HE3	1.97	0.46
4:M1:7:SER:C	4:M1:14:LEU:HD13	2.08	0.46
5:N1:14:LYS:HE3	5:N1:50:LEU:CD2	2.45	0.46
12:D2:202:CYC:HC	12:D2:202:CYC:HMD3	1.78	0.46
3:DA:111:ASN:HD21	4:MA:73:ASP:CA	2.28	0.46
4:MA:131:LEU:HB3	4:MA:137:ILE:HG12	1.98	0.46
5:NA:14:LYS:HE3	5:NA:50:LEU:CD2	2.45	0.46
2:QA:2:LYS:NZ	2:UA:17:ARG:NH2	2.64	0.46
3:P1:88:ILE:HG21	12:P1:201:CYC:CAB	2.46	0.46
2:A1:44:LEU:HD11	2:A1:142:LEU:HD11	1.96	0.46
2:G3:128:ILE:HG22	2:G3:132:LYS:HE3	1.98	0.46
3:H3:88:ILE:HG21	12:H3:202:CYC:CAB	2.46	0.46
2:I3:128:ILE:HG22	2:I3:132:LYS:HE3	1.98	0.46
3:D3:88:ILE:HG21	12:D3:202:CYC:CAB	2.46	0.46
3:B4:68:ARG:HH12	3:U4:68:ARG:NH1	2.14	0.46
4:M3:164:ARG:O	4:M3:164:ARG:HG3	2.15	0.46
2:O3:64:PRO:C	2:O3:66:LEU:N	2.70	0.46
2:O3:128:ILE:HG22	2:O3:132:LYS:HE3	1.98	0.46
3:X3:88:ILE:HG21	12:X3:201:CYC:CAB	2.46	0.46
2:G4:128:ILE:HG22	2:G4:132:LYS:HE3	1.98	0.46
4:M4:235:PHE:CA	12:M4:301:CYC:HAA1	2.44	0.46
8:K5:161:GLN:HG2	1:V5:49:THR:HB	1.97	0.46
8:A5:134:LYS:O	8:A5:138:THR:HB	2.16	0.46
8:E5:134:LYS:O	8:E5:138:THR:HB	2.16	0.46
8:G5:138:THR:HG21	8:o7:75:GLU:HG2	1.97	0.46
12:H5:201:CYC:CMA	12:H5:201:CYC:NB	2.74	0.46
8:I5:94:TYR:O	8:I5:97:VAL:HG23	2.16	0.46
8:U5:134:LYS:O	8:U5:138:THR:HB	2.16	0.46
1:V5:12:TYR:CZ	1:V5:23:ALA:HB2	2.50	0.46
12:V5:201:CYC:C4B	10:j5:649:PHE:CE1	2.99	0.46
8:a5:94:TYR:O	8:a5:97:VAL:HG23	2.16	0.46
7:N6:20:VAL:CG2	7:N6:39:TYR:CZ	2.99	0.46
8:A7:54:ALA:HB2	8:A7:133:MET:HG2	1.96	0.46
9:i5:17:VAL:O	9:i5:17:VAL:HG23	2.16	0.46
10:j5:214:PHE:N	10:j5:214:PHE:CD1	2.83	0.46
10:j5:409:GLU:HA	10:j5:409:GLU:OE2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:549:LYS:CE	10:j5:551:MET:HB2	2.45	0.46
10:j5:630:ILE:O	10:j5:630:ILE:HG22	2.14	0.46
10:j5:748:ARG:NE	8:K7:106:GLU:CD	2.71	0.46
10:k5:292:GLU:CD	10:k5:292:GLU:N	2.74	0.46
10:k5:391:SER:O	10:k5:392:SER:HB3	2.16	0.46
10:k5:1153:VAL:HG13	1:p7:65:LEU:HD12	1.98	0.46
2:A6:128:ILE:HG22	2:A6:132:LYS:HE3	1.97	0.46
8:S7:134:LYS:O	8:S7:138:THR:HB	2.16	0.46
8:g7:94:TYR:O	8:g7:97:VAL:HG23	2.16	0.46
8:i7:58:LEU:HD13	8:i7:128:GLU:CB	2.46	0.46
8:k7:54:ALA:HB2	8:k7:133:MET:HG2	1.96	0.46
8:U7:2:SER:C	8:U7:100:ASP:HB2	2.40	0.46
8:W7:134:LYS:O	8:W7:138:THR:HB	2.16	0.46
12:X7:201:CYC:CMA	12:X7:201:CYC:NB	2.74	0.46
8:a7:134:LYS:O	8:a7:138:THR:HB	2.16	0.46
2:A8:128:ILE:HG22	2:A8:132:LYS:HE3	1.98	0.46
3:B8:107:ASP:O	4:M8:61:ASN:O	2.33	0.46
8:m7:21:GLY:C	8:m7:23:LEU:H	2.24	0.46
8:m7:94:TYR:O	8:m7:97:VAL:HG23	2.16	0.46
8:o7:90:ARG:HB2	1:p7:18:TYR:HH	1.78	0.46
8:q7:134:LYS:O	8:q7:138:THR:HB	2.16	0.46
2:X8:69:PRO:CD	2:S9:42:ARG:CD	2.92	0.46
12:M8:301:CYC:CBC	3:Y8:127:VAL:HG22	2.46	0.46
2:N8:112:GLY:O	5:Z8:33:GLY:HA2	2.16	0.46
2:R8:68:GLN:HG3	3:T9:22:GLN:HG3	1.98	0.46
4:M9:110:TYR:HE2	4:M9:124:ARG:NH1	2.13	0.46
3:F9:88:ILE:HG21	12:F9:301:CYC:CAB	2.46	0.46
3:J9:119:ALA:HB1	11:a9:365:LYS:CE	2.35	0.46
2:Y9:128:ILE:HG22	2:Y9:132:LYS:HE3	1.98	0.46
11:a9:684:ASN:OD1	11:a9:686:SER:CB	2.64	0.46
11:a9:714:ARG:NH2	11:a9:810:GLN:OE1	2.45	0.46
11:a9:732:SER:HB2	11:a9:824:VAL:HG21	1.98	0.46
11:aA:383:PHE:CD1	11:aA:383:PHE:O	2.69	0.46
3:L1:88:ILE:HD12	3:L1:91:ARG:HH21	1.81	0.46
4:M1:56:MET:HE2	4:M1:56:MET:HB3	1.75	0.46
4:M1:258:LYS:HG2	3:Z1:111:ASN:HD21	1.81	0.46
5:N1:23:SER:C	5:N1:25:THR:N	2.74	0.46
12:U1:201:CYC:HBB2	3:Z1:75:PRO:CB	2.45	0.46
2:AA:19:LEU:O	3:BA:45:THR:CG2	2.64	0.46
3:BA:107:ASP:HB3	11:aA:382:ASN:CB	2.46	0.46
3:BA:113:LEU:HD13	4:MA:38:PRO:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:19:MET:O	4:MA:42:SER:HA	2.16	0.46
3:PA:88:ILE:HG21	12:PA:201:CYC:CAB	2.46	0.46
2:QA:116:VAL:HG11	3:TA:79:MET:HG2	1.98	0.46
3:TA:88:ILE:HG21	12:TA:301:CYC:CAB	2.46	0.46
3:VA:88:ILE:HG21	12:VA:201:CYC:CAB	2.46	0.46
3:XA:88:ILE:HG21	12:XA:201:CYC:CAB	2.46	0.46
3:H2:2:GLN:NE2	6:M2:75:LYS:HZ3	2.14	0.46
6:M2:238:LEU:CD1	6:M2:258:VAL:CG1	2.94	0.46
4:M3:131:LEU:HB3	4:M3:137:ILE:HG12	1.98	0.46
2:W3:128:ILE:HG22	2:W3:132:LYS:HE3	1.98	0.46
12:B1:202:CYC:HB	12:B1:202:CYC:CMA	2.26	0.46
3:F4:107:ASP:CG	4:M4:9:GLN:HA	2.41	0.46
3:H4:1:MET:N	11:aA:96:THR:HG21	2.31	0.46
3:Q4:7:LYS:CD	3:Q4:101:ASP:CG	2.86	0.46
8:M5:38:ARG:HD2	1:J7:144:ASP:CG	2.41	0.46
1:N5:53:LYS:HZ1	8:O5:120:GLN:HE21	0.47	0.46
8:O5:2:SER:C	8:O5:100:ASP:HB2	2.40	0.46
8:O5:94:TYR:O	8:O5:97:VAL:HG23	2.16	0.46
8:e5:2:SER:C	8:e5:100:ASP:HB2	2.40	0.46
8:e5:134:LYS:O	8:e5:138:THR:HB	2.16	0.46
8:S5:64:ASP:O	8:S5:67:SER:HB2	2.16	0.46
1:T5:110:ASN:ND2	10:j5:692:LEU:HB2	2.03	0.46
8:U5:94:TYR:O	8:U5:97:VAL:HG23	2.16	0.46
8:W5:134:LYS:O	8:W5:138:THR:HB	2.16	0.46
8:Y5:134:LYS:O	8:Y5:138:THR:HB	2.16	0.46
1:b5:1:MET:HE1	10:k5:25:ILE:HD13	1.97	0.46
10:j5:187:ARG:HD3	10:j5:234:LEU:HB3	1.97	0.46
10:j5:826:THR:CG2	12:H7:201:CYC:CMA	2.94	0.46
10:j5:930:LEU:HG	1:J7:148:GLU:HB2	1.97	0.46
10:j5:1016:LEU:CG	10:j5:1017:ARG:N	2.73	0.46
10:k5:45:GLN:O	10:k5:49:ASP:OD1	2.33	0.46
10:k5:76:PHE:HB2	10:k5:81:PRO:HG3	1.97	0.46
10:k5:184:LEU:HA	10:k5:184:LEU:HD23	1.50	0.46
10:k5:965:GLN:O	1:p7:14:VAL:HG12	2.16	0.46
8:O7:6:LYS:NZ	8:E7:21:GLY:CA	2.76	0.46
8:g7:97:VAL:HG21	1:h7:19:LEU:HD11	1.96	0.46
1:j7:107:ARG:O	9:y7:45:GLN:NE2	2.49	0.46
8:c7:11:ALA:CA	1:d7:94:TYR:OH	2.58	0.46
8:m7:134:LYS:O	8:m7:138:THR:HB	2.16	0.46
8:s7:94:TYR:O	8:s7:97:VAL:HG23	2.16	0.46
8:u7:47:ARG:CD	8:u7:47:ARG:C	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u7:134:LYS:O	8:u7:138:THR:HB	2.16	0.46
9:x7:21:ARG:NE	9:x7:21:ARG:HA	2.30	0.46
3:U8:108:ARG:CB	4:M8:246:ALA:CB	2.64	0.46
4:M8:19:MET:O	4:M8:42:SER:HA	2.16	0.46
4:M8:131:LEU:HB3	4:M8:137:ILE:HG12	1.98	0.46
2:N8:13:ASP:OD2	3:O8:108:ARG:CD	2.64	0.46
2:N8:128:ILE:HG22	2:N8:132:LYS:HE3	1.98	0.46
3:L9:90:LEU:HD22	2:K9:18:PHE:HZ	1.80	0.46
12:L9:202:CYC:CGD	11:a9:538:ARG:CB	2.93	0.46
2:O9:64:PRO:C	2:O9:66:LEU:H	2.23	0.46
3:Y8:110:LEU:CD2	3:Y8:167:ALA:HA	2.46	0.46
3:B9:30:LEU:HD12	3:B9:30:LEU:H	1.80	0.46
2:I9:9:ILE:HG23	3:J9:95:TYR:HB3	1.97	0.46
2:I9:45:THR:HG23	3:J9:18:PHE:CD2	2.50	0.46
2:I9:97:LEU:CD1	2:I9:97:LEU:C	2.85	0.46
11:aA:522:ASP:OD1	11:aA:522:ASP:N	2.31	0.46
11:aA:572:THR:HG22	11:aA:573:SER:N	2.31	0.46
4:M1:192:GLN:CG	3:Z1:84:ARG:HG3	2.40	0.46
4:M1:204:ILE:O	4:M1:204:ILE:HG22	2.14	0.46
4:M1:232:VAL:HG21	3:V1:113:LEU:CB	2.45	0.46
5:N1:38:GLU:HG2	5:N1:40:SER:H	1.81	0.46
3:T1:88:ILE:HG21	12:T1:301:CYC:CAB	2.46	0.46
2:U1:38:MET:HE2	2:U1:38:MET:HB3	1.81	0.46
1:Z:12:TYR:CZ	1:Z:23:ALA:HB2	2.50	0.46
3:BA:88:ILE:HG21	12:BA:201:CYC:CAB	2.46	0.46
4:MA:95:ALA:HB2	5:NA:38:GLU:OE1	2.16	0.46
4:MA:132:LEU:HD13	4:MA:142:PHE:CB	2.44	0.46
2:O1:128:ILE:HG22	2:O1:132:LYS:HE3	1.98	0.46
12:R1:202:CYC:CMD	12:R1:202:CYC:NC	2.75	0.46
3:H2:14:LEU:HD11	6:M2:69:ALA:CB	2.45	0.46
2:C4:128:ILE:HG22	2:C4:132:LYS:HE3	1.98	0.46
2:U3:128:ILE:HG22	2:U3:132:LYS:HE3	1.98	0.46
2:G4:15:GLN:HB3	11:aA:120:ARG:NH1	2.30	0.46
2:I4:128:ILE:HG22	2:I4:132:LYS:HE3	1.98	0.46
3:J4:108:ARG:CZ	11:aA:171:ARG:HA	2.45	0.46
3:L4:88:ILE:HG21	12:L4:202:CYC:CAB	2.46	0.46
4:M4:19:MET:O	4:M4:42:SER:HA	2.16	0.46
4:M4:190:ARG:NH1	4:M4:202:SER:HG	2.13	0.46
4:M4:226:SER:HB3	3:Y4:85:ASP:N	2.30	0.46
8:K5:4:LEU:HD21	8:K5:26:ILE:HD13	1.93	0.46
8:K5:17:TYR:CG	1:L5:45:SER:CB	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K5:161:GLN:CD	1:V5:49:THR:CG2	2.89	0.46
8:O5:134:LYS:O	8:O5:138:THR:HB	2.16	0.46
5:Z4:24:PRO:HG3	5:Z4:37:HIS:NE2	2.30	0.46
8:E5:107:ILE:HG21	8:E5:107:ILE:HD13	1.61	0.46
8:E5:132:ALA:C	8:E5:134:LYS:H	2.24	0.46
3:L6:88:ILE:HG21	12:L6:201:CYC:CAB	2.46	0.46
10:k5:187:ARG:HD3	10:k5:234:LEU:HB3	1.96	0.46
8:S7:49:ARG:HD2	11:aA:550:PHE:CZ	2.30	0.46
8:I7:17:TYR:OH	1:J7:89:LEU:HG	2.16	0.46
8:g7:37:LEU:CG	1:h7:24:LEU:HD21	2.46	0.46
8:g7:90:ARG:HD2	1:h7:18:TYR:N	2.31	0.46
8:i7:25:ARG:HH21	8:s7:3:VAL:CA	2.27	0.46
8:a7:21:GLY:C	8:a7:23:LEU:H	2.23	0.46
8:c7:4:LEU:HD21	8:c7:26:ILE:HD13	1.93	0.46
8:o7:37:LEU:HD22	1:p7:24:LEU:HB3	1.98	0.46
12:W8:202:CYC:HC	12:W8:202:CYC:HMD3	1.77	0.46
3:F8:88:ILE:HG21	12:F8:202:CYC:CAB	2.46	0.46
2:I8:128:ILE:HG22	2:I8:132:LYS:HE3	1.98	0.46
3:J8:88:ILE:HG21	12:J8:201:CYC:CAB	2.46	0.46
3:F1:88:ILE:HG21	12:F1:201:CYC:CAB	2.46	0.46
4:M9:131:LEU:HB3	4:M9:137:ILE:HG12	1.98	0.46
2:A9:128:ILE:HG22	2:A9:132:LYS:HE3	1.98	0.46
12:F9:303:CYC:NC	12:F9:303:CYC:CMD	2.75	0.46
11:a9:95:ILE:O	11:a9:96:THR:C	2.57	0.46
11:a9:426:ARG:HH21	11:a9:496:ARG:CZ	2.29	0.46
11:aA:337:GLU:CD	11:aA:337:GLU:C	2.84	0.46
11:aA:729:TYR:CD1	11:aA:784:VAL:HG21	2.51	0.46
4:M1:21:LEU:HD12	4:M1:21:LEU:C	2.37	0.46
4:M1:184:ILE:HD13	4:M1:184:ILE:HA	1.65	0.46
2:A2:38:MET:HE2	2:A2:38:MET:HB3	1.81	0.46
2:A2:64:PRO:C	2:A2:66:LEU:H	2.23	0.46
1:A:131:GLN:HG3	1:R5:17:LYS:HZ3	0.63	0.45
2:EA:128:ILE:CG2	2:EA:132:LYS:HE3	2.47	0.45
3:LA:107:ASP:O	11:aA:531:ASP:HB2	2.16	0.45
4:MA:103:GLN:O	4:MA:103:GLN:HG3	2.16	0.45
4:MA:152:TYR:CD1	4:MA:152:TYR:O	2.69	0.45
4:MA:267:LEU:HD23	4:MA:267:LEU:HA	1.65	0.45
5:NA:57:MET:SD	12:TA:301:CYC:CMA	3.05	0.45
2:OA:128:ILE:HG22	2:OA:132:LYS:HE3	1.98	0.45
2:QA:116:VAL:HG22	3:TA:80:ALA:CA	2.44	0.45
2:WA:128:ILE:HG22	2:WA:132:LYS:HE3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R1:88:ILE:HG21	12:R1:201:CYC:CAB	2.46	0.45
3:R1:120:LEU:HD23	5:N1:16:PHE:CE1	2.51	0.45
12:J2:201:CYC:HC	12:J2:201:CYC:HMD3	1.78	0.45
2:A3:31:PHE:CG	3:B3:34:SER:CB	2.99	0.45
3:Z3:84:ARG:HG3	4:M3:192:GLN:CG	2.40	0.45
3:Z3:88:ILE:HG21	12:Z3:201:CYC:CAB	2.46	0.45
5:N3:37:HIS:CD2	5:N3:38:GLU:O	2.69	0.45
3:R3:88:ILE:HG21	12:R3:201:CYC:CAB	2.46	0.45
3:T3:88:ILE:HG21	12:T3:301:CYC:CAB	2.46	0.45
3:F4:88:ILE:HG21	12:F4:202:CYC:CAB	2.46	0.45
3:F4:110:LEU:HB3	3:F4:111:ASN:H	1.51	0.45
4:M4:92:GLU:OE1	4:M4:217:VAL:CA	1.97	0.45
4:M4:225:LYS:HE3	3:Y4:81:ALA:CA	2.46	0.45
8:K5:132:ALA:C	8:K5:134:LYS:N	2.71	0.45
8:C5:94:TYR:O	8:C5:97:VAL:HG23	2.16	0.45
8:E5:110:ILE:HD13	8:E5:110:ILE:HG21	1.59	0.45
8:Q5:160:MET:HB2	8:Q5:161:GLN:H	1.62	0.45
8:U5:48:GLU:CB	6:M6:34:ARG:NH2	2.12	0.45
12:N6:101:CYC:CAB	3:B6:88:ILE:HG21	2.46	0.45
9:z5:18:ARG:N	9:z5:18:ARG:CD	2.78	0.45
9:i5:18:ARG:N	9:i5:18:ARG:CD	2.78	0.45
10:j5:156:SER:OG	12:j5:1201:CYC:CHD	2.64	0.45
10:j5:423:LEU:HD23	10:j5:423:LEU:HA	1.76	0.45
10:j5:1002:ARG:NH1	8:u7:13:ALA:O	2.49	0.45
10:j5:1006:ASP:CG	10:j5:1065:HIS:HE2	2.24	0.45
10:k5:277:ILE:O	10:k5:277:ILE:HG23	2.16	0.45
10:k5:549:LYS:CE	10:k5:551:MET:HB2	2.45	0.45
10:k5:1004:VAL:HG13	10:k5:1066:PHE:CZ	2.52	0.45
3:D6:88:ILE:HG21	12:D6:201:CYC:CAB	2.46	0.45
8:S7:120:GLN:CG	1:X7:53:LYS:NZ	2.78	0.45
8:E7:134:LYS:O	8:E7:138:THR:HB	2.16	0.45
8:M7:52:LYS:HE2	8:M7:52:LYS:HB3	1.53	0.45
8:g7:102:THR:CB	8:g7:103:PRO:HD3	2.34	0.45
8:i7:47:ARG:HD3	1:j7:18:TYR:CG	2.51	0.45
8:i7:137:ALA:O	8:i7:138:THR:C	2.56	0.45
1:j7:75:THR:HB	8:e7:111:GLY:C	2.41	0.45
8:Y7:64:ASP:O	8:Y7:67:SER:HB2	2.17	0.45
8:Y7:111:GLY:C	1:d7:75:THR:HB	2.41	0.45
1:Z7:12:TYR:CZ	1:Z7:23:ALA:HB2	2.50	0.45
8:c7:8:ILE:CG2	1:d7:94:TYR:CB	2.95	0.45
2:A8:31:PHE:CG	3:B8:34:SER:CB	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D8:88:ILE:HG21	12:D8:202:CYC:CAB	2.46	0.45
1:l7:12:TYR:CZ	1:l7:23:ALA:HB2	2.50	0.45
8:o7:90:ARG:HA	1:p7:18:TYR:HE2	1.63	0.45
8:s7:17:TYR:OH	1:t7:89:LEU:HG	2.16	0.45
8:s7:134:LYS:O	8:s7:138:THR:HB	2.16	0.45
8:u7:51:VAL:O	8:u7:51:VAL:HG12	2.16	0.45
8:u7:130:VAL:HG21	8:u7:160:MET:HE3	1.97	0.45
3:U8:88:ILE:HG21	12:U8:201:CYC:CAB	2.46	0.45
2:I8:14:SER:CA	11:a9:170:PHE:CZ	2.82	0.45
4:M8:51:ARG:HH11	4:M8:51:ARG:CG	2.27	0.45
4:M8:74:LEU:O	4:M8:77:LEU:HD11	2.15	0.45
4:M8:110:TYR:HE2	4:M8:124:ARG:NH1	2.14	0.45
4:M8:164:ARG:O	4:M8:164:ARG:HG3	2.15	0.45
4:M8:205:ASP:CB	5:Z8:59:ARG:CZ	2.66	0.45
3:Q8:92:TYR:CE1	3:Q8:109:CYS:SG	3.05	0.45
3:L9:37:ARG:HH11	3:L9:97:LEU:HD12	1.79	0.45
4:M9:52:LEU:HD13	12:F9:301:CYC:HAA1	1.98	0.45
4:M9:185:ALA:HB1	12:V9:201:CYC:CGA	2.42	0.45
5:N9:36:THR:HB	12:P9:201:CYC:O2A	2.17	0.45
3:Y8:106:GLU:HA	3:Y8:110:LEU:CD1	2.46	0.45
3:B9:107:ASP:HB3	11:a9:382:ASN:CB	2.45	0.45
2:U9:128:ILE:HG22	2:U9:132:LYS:HE3	1.98	0.45
11:a9:581:ARG:NH1	11:a9:581:ARG:CG	2.72	0.45
11:a9:609:LEU:HD12	11:a9:609:LEU:HA	1.72	0.45
11:aA:38:VAL:CG1	11:aA:39:PRO:CD	2.95	0.45
11:aA:81:ASP:O	11:aA:82:GLN:C	2.59	0.45
4:M1:132:LEU:HD13	4:M1:142:PHE:CB	2.44	0.45
5:N1:36:THR:HB	3:T1:84:ARG:NH2	2.31	0.45
3:DA:115:GLU:OE2	4:MA:77:LEU:C	2.54	0.45
3:DA:115:GLU:OE1	4:MA:76:ALA:O	2.34	0.45
12:FA:301:CYC:HAA1	4:MA:52:LEU:HD13	1.98	0.45
3:HA:66:LEU:HD21	12:HA:202:CYC:HMC1	1.98	0.45
2:KA:128:ILE:HG22	2:KA:132:LYS:HE3	1.98	0.45
3:LA:109:CYS:C	3:LA:111:ASN:N	2.71	0.45
4:MA:160:THR:C	3:VA:108:ARG:HA	2.41	0.45
2:QA:128:ILE:HG22	2:QA:132:LYS:HE3	1.98	0.45
12:VA:202:CYC:HC	12:VA:202:CYC:HMD3	1.78	0.45
2:O1:64:PRO:C	2:O1:66:LEU:N	2.70	0.45
2:A1:31:PHE:CG	3:B1:34:SER:CB	2.99	0.45
2:G2:65:TYR:CD1	2:A2:65:TYR:CD1	3.05	0.45
4:M3:5:THR:C	4:M3:6:THR:HG1	2.08	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M3:51:ARG:NH1	4:M3:51:ARG:CG	2.77	0.45
5:N3:23:SER:C	5:N3:25:THR:N	2.74	0.45
12:X3:202:CYC:HC	12:X3:202:CYC:HMD3	1.77	0.45
2:Y3:128:ILE:CG2	2:Y3:132:LYS:HE3	2.47	0.45
2:V4:38:MET:HE2	2:V4:38:MET:HB3	1.81	0.45
4:M4:98:ASP:HB3	3:Q4:92:TYR:CB	2.39	0.45
4:M4:251:ASN:HD22	4:M4:251:ASN:N	1.92	0.45
2:P4:38:MET:HE2	2:P4:38:MET:HB3	1.81	0.45
8:K5:107:ILE:HG21	8:K5:107:ILE:HD13	1.61	0.45
8:M5:134:LYS:O	8:M5:138:THR:HB	2.16	0.45
8:W5:8:ILE:CG2	1:X5:94:TYR:CD1	2.93	0.45
8:a5:134:LYS:O	8:a5:138:THR:HB	2.16	0.45
6:M6:43:TRP:CH2	8:c7:52:LYS:HB2	2.51	0.45
6:M6:238:LEU:CD1	6:M6:258:VAL:CG1	2.94	0.45
8:A7:134:LYS:O	8:A7:138:THR:HB	2.16	0.45
9:i5:6:LYS:HB3	9:i5:55:LYS:N	2.28	0.45
10:j5:277:ILE:O	10:j5:277:ILE:HG23	2.16	0.45
10:j5:352:ILE:HG22	10:j5:353:ASN:N	2.30	0.45
10:j5:391:SER:O	10:j5:392:SER:HB3	2.16	0.45
10:j5:750:ARG:HG2	10:j5:750:ARG:NH1	2.31	0.45
10:j5:1146:THR:CB	1:v7:71:MEN:HE21	2.47	0.45
10:k5:19:THR:HB	10:k5:173:ALA:HB2	1.97	0.45
3:B6:77:ARG:CG	3:B6:77:ARG:NH1	2.72	0.45
2:I6:53:LYS:HE3	11:a9:295:ARG:HB2	1.99	0.45
8:O7:6:LYS:NZ	8:E7:19:SER:HB3	2.30	0.45
8:O7:94:TYR:O	8:O7:97:VAL:HG23	2.16	0.45
8:G7:82:LEU:CB	11:a9:579:PHE:CD1	3.00	0.45
1:J7:72:MET:HE2	1:J7:72:MET:HB3	1.87	0.45
8:M7:60:GLN:NE2	3:J9:114:LYS:CG	2.80	0.45
8:M7:134:LYS:O	8:M7:138:THR:HB	2.16	0.45
8:g7:63:PRO:HB2	11:aA:333:GLN:O	2.17	0.45
8:i7:25:ARG:HH12	8:s7:6:LYS:HG2	1.66	0.45
8:U7:94:TYR:O	8:U7:97:VAL:HG23	2.16	0.45
8:a7:37:LEU:CG	1:b7:24:LEU:HD21	2.46	0.45
8:c7:20:PRO:HB3	8:m7:151:PHE:C	2.41	0.45
8:c7:23:LEU:HB3	1:d7:38:VAL:HG13	1.98	0.45
12:B8:202:CYC:NA	4:M8:57:THR:OG1	2.40	0.45
8:o7:94:TYR:HD1	1:p7:19:LEU:HG	1.78	0.45
8:u7:37:LEU:HD22	1:v7:24:LEU:HB3	1.98	0.45
8:u7:90:ARG:HB2	1:v7:18:TYR:HH	1.81	0.45
8:u7:94:TYR:OH	1:v7:17:LYS:C	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F8:110:LEU:O	3:F8:112:GLY:N	2.50	0.45
2:K8:128:ILE:HG22	2:K8:132:LYS:HE3	1.97	0.45
4:M8:152:TYR:CD1	4:M8:152:TYR:O	2.69	0.45
12:M8:302:CYC:HMD1	3:S8:77:ARG:NH2	2.19	0.45
3:Q8:117:TYR:CE1	12:Z8:301:CYC:H3C	2.52	0.45
5:N9:34:LEU:HB3	3:P9:84:ARG:NH1	2.31	0.45
3:D9:88:ILE:HG21	12:D9:201:CYC:CAB	2.46	0.45
3:J9:88:ILE:HD13	11:a9:512:TYR:CE1	2.25	0.45
2:S9:42:ARG:NH2	3:T9:25:ASN:OD1	2.46	0.45
2:Y9:128:ILE:CG2	2:Y9:132:LYS:HE3	2.47	0.45
11:a9:81:ASP:O	11:a9:82:GLN:C	2.59	0.45
11:a9:383:PHE:CD1	11:a9:383:PHE:O	2.69	0.45
11:a9:781:ALA:O	11:a9:782:ALA:C	2.60	0.45
11:aA:290:ASP:O	11:aA:291:TYR:CE1	2.56	0.45
11:aA:609:LEU:HD12	11:aA:609:LEU:HA	1.72	0.45
2:K1:128:ILE:CG2	2:K1:132:LYS:HE3	2.47	0.45
4:M1:222:ARG:HH11	4:M1:222:ARG:CG	2.13	0.45
4:M1:252:LEU:CD1	3:X1:77:ARG:HH12	2.28	0.45
2:U1:128:ILE:HG22	2:U1:132:LYS:HE3	1.98	0.45
12:BA:201:CYC:O2A	4:MA:34:ASP:O	2.33	0.45
3:DA:88:ILE:HG21	12:DA:201:CYC:CAB	2.46	0.45
3:HA:127:VAL:HA	12:HA:202:CYC:HBC3	1.97	0.45
4:MA:74:LEU:O	4:MA:77:LEU:HD11	2.15	0.45
2:OA:34:ALA:HB3	3:PA:31:VAL:CG1	2.39	0.45
3:TA:21:GLU:HB3	2:R4:64:PRO:CB	2.43	0.45
3:TA:22:GLN:HG3	2:R4:68:GLN:HG3	1.98	0.45
2:O1:31:PHE:CG	3:P1:34:SER:CB	3.00	0.45
2:Q1:128:ILE:HG22	2:Q1:132:LYS:HE3	1.98	0.45
2:A1:65:TYR:CD1	2:G1:65:TYR:CD1	3.05	0.45
2:G3:111:ALA:HB3	3:L3:77:ARG:HG3	1.90	0.45
2:K3:128:ILE:HG22	2:K3:132:LYS:HE3	1.97	0.45
7:N2:18:ILE:HD11	7:N2:48:LEU:HD11	1.98	0.45
2:A3:64:PRO:C	2:A3:66:LEU:N	2.71	0.45
2:C3:140:SER:O	3:D8:150:ARG:NH1	2.48	0.45
2:A4:64:PRO:C	2:A4:66:LEU:H	2.23	0.45
3:S4:113:LEU:HD13	12:S4:202:CYC:HMB2	1.98	0.45
2:K4:128:ILE:HG22	2:K4:132:LYS:HE3	1.97	0.45
3:L4:69:PRO:O	11:aA:82:GLN:CG	2.63	0.45
4:M4:16:LYS:HA	4:M4:46:VAL:HA	1.96	0.45
4:M4:29:PRO:CG	11:aA:230:THR:OG1	2.65	0.45
2:N4:31:PHE:CG	3:O4:34:SER:CB	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M5:64:ASP:O	8:M5:67:SER:HB2	2.16	0.45
3:Y4:106:GLU:HB2	3:Y4:166:LYS:CD	2.40	0.45
8:C5:2:SER:C	8:C5:100:ASP:HB2	2.40	0.45
1:H5:2:GLN:OE1	10:j5:551:MET:HG2	2.16	0.45
1:H5:110:ASN:CG	10:j5:547:ARG:HD3	2.41	0.45
2:C1:128:ILE:HG22	2:C1:132:LYS:HE3	1.98	0.45
8:c5:134:LYS:O	8:c5:138:THR:HB	2.16	0.45
1:P5:123:ILE:HG22	10:k5:11:VAL:HG23	1.97	0.45
8:S5:90:ARG:NE	1:T5:16:GLY:O	2.50	0.45
7:N6:9:THR:HG23	7:N6:12:GLY:H	1.80	0.45
9:i5:14:LEU:HD13	9:i5:15:LYS:HB3	1.98	0.45
10:j5:245:ILE:H	10:j5:245:ILE:HG12	1.45	0.45
10:j5:384:SER:HA	10:j5:385:PRO:HD2	1.58	0.45
10:j5:886:PHE:N	10:j5:886:PHE:HD1	2.15	0.45
10:k5:182:ASN:N	10:k5:182:ASN:ND2	2.59	0.45
10:k5:388:ARG:NH2	10:k5:392:SER:CA	2.74	0.45
10:k5:409:GLU:OE2	10:k5:409:GLU:HA	2.16	0.45
10:k5:729:ILE:HB	1:D7:64:ASP:OD1	2.16	0.45
10:k5:1143:LEU:HD23	1:l7:10:ASN:ND2	2.31	0.45
2:A6:59:VAL:O	2:A6:66:LEU:CD1	2.62	0.45
2:A6:65:TYR:CD1	2:G6:65:TYR:CD1	3.05	0.45
8:O7:22:GLU:O	8:O7:26:ILE:HG13	2.16	0.45
8:S7:64:ASP:O	8:S7:67:SER:HB2	2.16	0.45
2:V8:128:ILE:HG22	2:V8:132:LYS:HE3	1.98	0.45
2:X8:128:ILE:CG2	2:X8:132:LYS:HE3	2.47	0.45
4:M8:130:SER:CB	12:M8:302:CYC:HAA1	2.41	0.45
2:N8:64:PRO:C	2:N8:66:LEU:H	2.23	0.45
3:O8:107:ASP:HA	5:Z8:66:ARG:NH1	2.27	0.45
4:M9:5:THR:C	4:M9:6:THR:OG1	2.56	0.45
3:B9:65:ASP:OD1	3:B9:65:ASP:N	2.49	0.45
3:B9:88:ILE:HG21	12:B9:201:CYC:CAB	2.46	0.45
3:D9:68:ARG:HH12	3:X9:68:ARG:HH12	1.63	0.45
2:K9:128:ILE:CG2	2:K9:132:LYS:HE3	2.47	0.45
3:T9:88:ILE:HG21	12:T9:301:CYC:CAB	2.46	0.45
11:a9:38:VAL:CG1	11:a9:39:PRO:CD	2.95	0.45
11:a9:337:GLU:CD	11:a9:337:GLU:C	2.84	0.45
11:aA:95:ILE:O	11:aA:96:THR:C	2.57	0.45
11:aA:600:THR:O	11:aA:600:THR:HG22	2.14	0.45
2:AA:65:TYR:CD1	2:GA:65:TYR:CD1	3.05	0.45
3:BA:65:ASP:OD1	3:BA:65:ASP:N	2.49	0.45
4:MA:133:ARG:CB	12:RA:201:CYC:HBA2	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:NA:34:LEU:HD22	5:NA:34:LEU:HA	1.71	0.45
5:NA:38:GLU:HG2	5:NA:40:SER:H	1.81	0.45
2:SA:128:ILE:CG2	2:SA:132:LYS:HE3	2.47	0.45
3:H3:78:ARG:NH2	11:a9:623:ASP:CA	2.61	0.45
3:J3:14:LEU:HD21	11:a9:622:ALA:N	2.04	0.45
3:J2:108:ARG:CZ	6:M2:155:ASN:HA	2.46	0.45
6:M2:39:ARG:CZ	8:O5:66:VAL:HG21	2.46	0.45
7:N2:20:VAL:HG21	7:N2:39:TYR:CE1	2.51	0.45
2:C3:128:ILE:CG2	2:C3:132:LYS:HE3	2.47	0.45
3:F3:113:LEU:HA	4:M3:38:PRO:HB2	1.98	0.45
12:Z3:201:CYC:HBB3	4:M3:162:ASN:H	1.81	0.45
3:D4:88:ILE:HG21	12:D4:202:CYC:CAB	2.46	0.45
4:M3:93:LEU:HA	4:M3:93:LEU:HD12	1.66	0.45
4:M3:205:ASP:CG	5:N3:52:ARG:HH22	2.23	0.45
2:O3:19:LEU:O	3:P3:45:THR:CG2	2.64	0.45
3:U4:108:ARG:NH2	4:M4:245:ASP:OD2	2.50	0.45
2:V4:128:ILE:CG2	2:V4:132:LYS:HE3	2.47	0.45
12:F4:201:CYC:HC	12:F4:201:CYC:HMD3	1.78	0.45
3:H4:88:ILE:HG21	12:H4:201:CYC:CAB	2.46	0.45
8:K5:72:ALA:HB2	12:K5:201:CYC:OC	2.15	0.45
8:M5:90:ARG:NE	1:N5:16:GLY:O	2.50	0.45
8:Y5:64:ASP:O	8:Y5:67:SER:HB2	2.16	0.45
8:a5:4:LEU:HD23	8:a5:26:ILE:HD13	1.97	0.45
1:b5:10:ASN:OD1	10:k5:17:PHE:CZ	2.69	0.45
3:J6:108:ARG:CZ	6:M6:155:ASN:HA	2.46	0.45
2:K6:38:MET:HE2	2:K6:38:MET:HB3	1.81	0.45
7:N6:5:VAL:HG23	3:F6:108:ARG:HH12	1.81	0.45
10:j5:357:LEU:CD1	10:j5:379:PHE:N	2.80	0.45
10:j5:669:GLU:O	10:j5:669:GLU:HG2	2.15	0.45
10:j5:984:ILE:C	10:j5:984:ILE:CD1	2.85	0.45
10:j5:1020:GLU:CG	1:f7:87:TYR:CE1	2.83	0.45
10:k5:732:ARG:NE	1:D7:69:GLY:HA3	2.31	0.45
10:k5:761:ARG:C	10:k5:761:ARG:CD	2.87	0.45
10:k5:1020:GLU:HG3	1:Z7:87:TYR:OH	2.13	0.45
2:A6:128:ILE:CG2	2:A6:132:LYS:HE3	2.47	0.45
8:Q7:21:GLY:CA	8:C7:6:LYS:NZ	2.79	0.45
1:H7:12:TYR:CZ	1:H7:23:ALA:HB2	2.50	0.45
1:h7:51:ILE:HD11	1:h7:140:LEU:CD2	2.46	0.45
8:i7:122:PRO:C	8:i7:125:ALA:H	2.23	0.45
12:j7:201:CYC:HMA2	9:y7:38:PHE:CD1	2.45	0.45
8:k7:120:GLN:CG	1:p7:53:LYS:NZ	2.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:T7:201:CYC:HMD1	12:T7:201:CYC:NC	2.09	0.45
1:b7:51:ILE:HD11	1:b7:140:LEU:CD2	2.46	0.45
8:e7:134:LYS:O	8:e7:138:THR:HB	2.16	0.45
9:x7:28:PHE:O	9:x7:28:PHE:CG	2.69	0.45
2:V8:128:ILE:CG2	2:V8:132:LYS:HE3	2.47	0.45
3:F8:111:ASN:HB3	4:M8:6:THR:CA	2.38	0.45
2:G8:15:GLN:HB3	11:a9:120:ARG:NH1	2.30	0.45
3:H8:88:ILE:HG21	12:H8:201:CYC:CAB	2.46	0.45
4:M8:92:GLU:HG2	4:M8:217:VAL:CG2	2.29	0.45
2:N8:31:PHE:CG	3:O8:34:SER:CB	3.00	0.45
2:N8:59:VAL:O	2:N8:66:LEU:CD1	2.62	0.45
3:Q8:127:VAL:CG2	12:Z8:301:CYC:HMC2	2.17	0.45
4:M9:53:LEU:HD22	3:F9:84:ARG:CZ	2.47	0.45
2:C9:128:ILE:CG2	2:C9:132:LYS:HE3	2.47	0.45
2:S9:128:ILE:CG2	2:S9:132:LYS:HE3	2.47	0.45
2:W9:128:ILE:HG22	2:W9:132:LYS:HE3	1.98	0.45
11:aA:373:PRO:HG2	11:aA:373:PRO:O	2.17	0.45
11:aA:419:ARG:O	11:aA:420:ASN:C	2.58	0.45
11:aA:632:ILE:HG23	11:aA:634:ALA:N	2.24	0.45
4:M1:74:LEU:O	4:M1:77:LEU:HD11	2.15	0.45
2:W1:128:ILE:CG2	2:W1:132:LYS:HE3	2.47	0.45
2:AA:2:LYS:NZ	2:KA:17:ARG:NH2	2.65	0.45
2:IA:33:ARG:HH12	12:F9:302:CYC:HMA3	1.82	0.45
3:LA:108:ARG:HA	11:aA:531:ASP:CB	2.44	0.45
5:NA:22:LEU:HD21	5:NA:26:LEU:CG	2.29	0.45
5:NA:54:LEU:CG	3:TA:84:ARG:CZ	2.93	0.45
2:OA:31:PHE:CG	3:PA:34:SER:CB	3.00	0.45
2:QA:4:VAL:HG22	2:UA:22:THR:O	2.15	0.45
2:QA:68:GLN:C	2:U1:46:SER:CB	2.88	0.45
2:QA:101:GLY:CA	2:UA:22:THR:OG1	2.62	0.45
2:SA:42:ARG:NH1	3:TA:24:LEU:HD13	2.32	0.45
2:G3:128:ILE:CG2	2:G3:132:LYS:HE3	2.47	0.45
3:J3:107:ASP:OD1	11:a9:632:ILE:CD1	2.64	0.45
2:K3:128:ILE:CG2	2:K3:132:LYS:HE3	2.47	0.45
3:H2:84:ARG:C	3:H2:86:MET:N	2.74	0.45
2:K2:128:ILE:HG22	2:K2:132:LYS:HE3	1.98	0.45
12:N2:101:CYC:CAB	3:B2:88:ILE:HG21	2.47	0.45
2:A3:38:MET:HE2	2:A3:38:MET:HB3	1.81	0.45
2:C4:128:ILE:CG2	2:C4:132:LYS:HE3	2.47	0.45
4:M3:103:GLN:O	4:M3:103:GLN:HG3	2.16	0.45
5:N3:36:THR:HB	3:T3:84:ARG:NH2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U3:128:ILE:CG2	2:U3:132:LYS:HE3	2.47	0.45
3:F4:112:GLY:C	4:M4:5:THR:HA	2.28	0.45
3:L4:66:LEU:HD23	3:L4:66:LEU:HA	1.98	0.45
4:M4:103:GLN:O	4:M4:103:GLN:HG3	2.16	0.45
4:M4:113:ILE:HD11	4:M4:143:VAL:HA	1.98	0.45
12:M4:301:CYC:C3B	3:Y4:88:ILE:CD1	2.93	0.45
2:R4:128:ILE:CG2	2:R4:132:LYS:HE3	2.47	0.45
8:K5:80:LEU:HD13	12:K5:201:CYC:CHA	2.47	0.45
8:M5:41:GLN:CD	1:J7:143:PRO:CD	2.90	0.45
2:X4:128:ILE:HG22	2:X4:132:LYS:HE3	1.98	0.45
8:G5:134:LYS:O	8:G5:138:THR:HB	2.16	0.45
1:d5:72:MET:HE2	1:d5:72:MET:HB3	1.87	0.45
8:Q5:8:ILE:CG2	1:R5:94:TYR:CD1	2.93	0.45
1:X5:72:MET:HE2	1:X5:72:MET:HB3	1.87	0.45
12:X5:201:CYC:CBB	10:j5:520:ARG:CD	2.90	0.45
9:z5:14:LEU:HD13	9:z5:15:LYS:HB3	1.98	0.45
10:j5:76:PHE:HB2	10:j5:81:PRO:HG3	1.97	0.45
10:j5:305:PHE:CE2	10:j5:337:LEU:HD23	2.51	0.45
10:j5:540:LEU:HB2	10:j5:567:LEU:HG	1.99	0.45
10:j5:576:PHE:CD1	10:j5:576:PHE:N	2.84	0.45
10:j5:729:ILE:HB	1:J7:64:ASP:OD1	2.17	0.45
10:j5:965:GLN:HB2	1:t7:69:GLY:C	2.42	0.45
10:k5:889:LEU:HD23	12:D7:201:CYC:C4B	2.46	0.45
2:A6:64:PRO:C	2:A6:66:LEU:H	2.23	0.45
2:E6:128:ILE:CG2	2:E6:132:LYS:HE3	2.47	0.45
3:F6:84:ARG:CZ	12:F6:201:CYC:O2A	2.64	0.45
3:D1:88:ILE:HG21	12:D1:202:CYC:CAB	2.46	0.45
12:R7:201:CYC:CMA	12:R7:201:CYC:NB	2.74	0.45
8:G7:134:LYS:O	8:G7:138:THR:HB	2.16	0.45
8:I7:94:TYR:O	8:I7:97:VAL:HG23	2.16	0.45
8:M7:64:ASP:O	8:M7:67:SER:HB2	2.17	0.45
1:h7:79:ALA:HB2	8:i7:111:GLY:O	2.16	0.45
8:i7:20:PRO:HD3	8:s7:155:TYR:CG	2.31	0.45
8:c7:137:ALA:O	8:c7:138:THR:C	2.55	0.45
3:B8:113:LEU:N	4:M8:60:LYS:HD3	2.32	0.45
2:C8:128:ILE:CG2	2:C8:132:LYS:HE3	2.47	0.45
2:E8:128:ILE:CG2	2:E8:132:LYS:HE3	2.47	0.45
8:o7:94:TYR:OH	1:p7:17:LYS:C	2.50	0.45
8:q7:64:ASP:O	8:q7:67:SER:HB2	2.17	0.45
12:U8:202:CYC:HC	12:U8:202:CYC:HMD3	1.78	0.45
3:W8:88:ILE:HG21	12:W8:201:CYC:CAB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:7:SER:C	4:M9:14:LEU:HD13	2.08	0.45
4:M9:73:ASP:CA	3:D9:111:ASN:HD21	2.28	0.45
5:N9:40:SER:O	5:N9:40:SER:OG	2.30	0.45
3:P9:88:ILE:HG21	12:P9:201:CYC:CAB	2.46	0.45
2:I9:1:MET:HE2	2:I9:108:TYR:CE1	2.45	0.45
2:S9:42:ARG:NH1	3:T9:24:LEU:HD13	2.32	0.45
11:a9:572:THR:HG22	11:a9:573:SER:N	2.31	0.45
11:a9:710:THR:HB	11:a9:807:GLN:HB3	1.96	0.45
11:aA:823:ILE:HD12	3:L1:75:PRO:CG	2.46	0.45
3:L1:84:ARG:O	3:L1:88:ILE:HG12	2.16	0.45
4:M1:153:LYS:O	4:M1:157:PHE:HB3	2.17	0.45
2:Y1:128:ILE:CG2	2:Y1:132:LYS:HE3	2.47	0.45
3:Z1:88:ILE:HG21	12:Z1:202:CYC:CAB	2.46	0.45
1:Z:76:ARG:HG2	10:j5:262:TYR:CD2	2.52	0.45
3:BA:30:LEU:HD12	3:BA:30:LEU:H	1.81	0.45
2:EA:2:LYS:NZ	2:IA:17:ARG:CZ	2.69	0.45
3:HA:126:SER:CB	12:HA:202:CYC:HMC1	2.31	0.45
4:MA:91:VAL:O	4:MA:218:VAL:HG23	2.17	0.45
4:MA:160:THR:CG2	4:MA:257:GLN:CG	2.93	0.45
5:NA:3:VAL:HG11	3:RA:115:GLU:HB3	1.93	0.45
5:NA:36:THR:HB	12:PA:201:CYC:O2A	2.17	0.45
2:OA:65:TYR:CD1	2:UA:65:TYR:CD1	3.05	0.45
2:QA:119:THR:O	3:TA:53:SER:HB2	2.16	0.45
3:RA:88:ILE:HG21	12:RA:201:CYC:CAB	2.46	0.45
2:WA:38:MET:HE2	2:WA:38:MET:HB3	1.81	0.45
2:O1:19:LEU:O	3:P1:45:THR:CG2	2.64	0.45
3:J2:88:ILE:HG21	12:J2:202:CYC:CAB	2.46	0.45
7:N2:20:VAL:CG2	7:N2:39:TYR:CZ	2.99	0.45
2:A3:19:LEU:O	3:B3:45:THR:CG2	2.64	0.45
2:A3:128:ILE:CG2	2:A3:132:LYS:HE3	2.47	0.45
2:E3:128:ILE:CG2	2:E3:132:LYS:HE3	2.47	0.45
3:B4:111:ASN:HD21	4:M4:65:ARG:HG2	1.80	0.45
3:B4:117:TYR:HE1	4:M4:53:LEU:CD2	2.30	0.45
5:N3:37:HIS:O	5:N3:37:HIS:CD2	2.70	0.45
3:X3:67:ILE:HD12	12:Y3:201:CYC:O2A	2.17	0.45
3:B1:125:ARG:HD2	3:X1:14:LEU:HD13	1.97	0.45
2:T4:128:ILE:CG2	2:T4:132:LYS:HE3	2.47	0.45
3:U4:120:LEU:CD1	4:M4:254:LEU:CD2	2.94	0.45
3:F4:115:GLU:OE2	4:M4:3:VAL:HG21	2.06	0.45
2:G4:128:ILE:CG2	2:G4:132:LYS:HE3	2.47	0.45
4:M4:57:THR:O	4:M4:60:LYS:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:226:SER:HG	3:Y4:84:ARG:C	2.25	0.45
2:N4:128:ILE:CG2	2:N4:132:LYS:HE3	2.47	0.45
8:O5:76:LYS:HG3	8:O5:77:MET:CA	2.43	0.45
12:B5:201:CYC:OB	9:z5:22:GLU:N	2.50	0.45
8:C5:16:ARG:HH11	8:C5:16:ARG:CG	2.29	0.45
8:E5:71:ASN:CG	8:E5:121:THR:HA	2.41	0.45
8:G5:50:ILE:HA	8:G5:136:VAL:HG11	1.99	0.45
1:J5:15:GLN:HE21	1:J5:15:GLN:HB2	1.56	0.45
2:C1:128:ILE:CG2	2:C1:132:LYS:HE3	2.47	0.45
12:d5:201:CYC:CMA	12:d5:201:CYC:NB	2.74	0.45
8:e5:94:TYR:O	8:e5:97:VAL:HG23	2.16	0.45
8:Q5:134:LYS:O	8:Q5:138:THR:HB	2.16	0.45
1:Z5:62:TYR:OH	12:a5:201:CYC:O1D	2.30	0.45
2:K6:128:ILE:CG2	2:K6:132:LYS:HE3	2.47	0.45
6:M6:38:SER:O	6:M6:38:SER:OG	2.31	0.45
10:j5:182:ASN:HB3	12:j5:1201:CYC:HAB2	1.98	0.45
10:j5:750:ARG:CG	10:j5:750:ARG:NH1	2.74	0.45
10:j5:820:HIS:CD2	10:j5:820:HIS:O	2.69	0.45
10:j5:1064:LYS:CD	10:j5:1065:HIS:H	2.25	0.45
10:k5:190:LEU:CD1	12:k5:1201:CYC:NC	2.79	0.45
10:k5:394:PRO:HB2	10:k5:395:SER:H	1.56	0.45
10:k5:756:SER:CB	9:z7:24:GLN:HG2	2.47	0.45
10:k5:888:THR:O	12:D7:201:CYC:HMA2	2.17	0.45
10:k5:1023:SER:HA	12:k5:1202:CYC:HBA1	1.99	0.45
10:k5:1150:TYR:OH	11:a9:38:VAL:HG13	2.17	0.45
2:I6:128:ILE:HG22	2:I6:132:LYS:HE3	1.98	0.45
8:S7:49:ARG:CD	11:aA:550:PHE:CD1	2.84	0.45
8:g7:10:ASN:HD21	8:u7:10:ASN:ND2	2.09	0.45
8:i7:21:GLY:HA2	8:s7:100:ASP:CA	2.36	0.45
8:i7:90:ARG:NH2	1:j7:13:ASP:OD1	2.50	0.45
1:d7:72:MET:HE2	1:d7:72:MET:HB3	1.87	0.45
2:A8:65:TYR:CD1	2:G8:65:TYR:CD1	3.05	0.45
3:B8:68:ARG:HH12	3:U8:68:ARG:NH1	2.14	0.45
2:E8:128:ILE:HG22	2:E8:132:LYS:HE3	1.98	0.45
9:z7:6:LYS:O	9:z7:6:LYS:HG3	2.15	0.45
9:w7:6:LYS:O	9:w7:6:LYS:HG3	2.15	0.45
9:y7:15:LYS:HB2	9:y7:15:LYS:HE3	1.33	0.45
9:y7:28:PHE:O	9:y7:28:PHE:CG	2.69	0.45
12:H8:201:CYC:CBA	11:a9:261:SER:CB	2.95	0.45
2:I8:112:GLY:N	11:a9:133:LEU:CD2	2.80	0.45
2:K8:128:ILE:CG2	2:K8:132:LYS:HE3	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M8:57:THR:O	4:M8:60:LYS:HG2	2.16	0.45
2:P8:128:ILE:CG2	2:P8:132:LYS:HE3	2.47	0.45
2:O9:128:ILE:CG2	2:O9:132:LYS:HE3	2.47	0.45
5:Z8:37:HIS:CD2	5:Z8:37:HIS:O	2.70	0.45
5:Z8:41:GLN:CG	12:Z8:301:CYC:CAB	2.56	0.45
2:E9:152:ALA:HB1	2:I9:21:ASN:OD1	2.16	0.45
3:J9:88:ILE:HG21	12:J9:202:CYC:CAB	2.46	0.45
3:J9:88:ILE:HG12	11:a9:512:TYR:CZ	2.51	0.45
12:J9:202:CYC:HB	12:J9:202:CYC:CMA	2.26	0.45
2:W9:128:ILE:CG2	2:W9:132:LYS:HE3	2.47	0.45
11:a9:548:LEU:O	11:a9:552:LEU:HB2	2.17	0.45
11:aA:64:ARG:O	11:aA:65:LEU:C	2.56	0.45
11:aA:320:ASP:HA	11:aA:323:ARG:HG2	1.98	0.45
11:aA:328:GLN:HE21	11:aA:328:GLN:CA	2.30	0.45
11:aA:710:THR:HA	11:aA:807:GLN:HB2	1.99	0.45
11:aA:716:ILE:HD11	11:aA:738:LEU:CD2	2.47	0.45
3:H1:84:ARG:HH22	12:H1:201:CYC:CHA	2.30	0.45
2:I1:128:ILE:CG2	2:I1:132:LYS:HE3	2.47	0.45
4:M1:103:GLN:O	4:M1:103:GLN:HG3	2.16	0.45
4:M1:160:THR:CG2	4:M1:257:GLN:CG	2.93	0.45
2:E2:128:ILE:HG22	2:E2:132:LYS:HE3	1.98	0.45
3:F2:88:ILE:HG21	12:F2:201:CYC:HAB2	1.99	0.45
3:F2:127:VAL:HG22	12:F2:201:CYC:HMC2	1.97	0.45
1:A:18:TYR:OH	8:a5:89:LEU:CB	2.64	0.45
2:AA:31:PHE:CG	3:BA:34:SER:CB	3.00	0.45
2:IA:37:SER:CA	2:IA:97:LEU:CD2	2.92	0.45
4:MA:222:ARG:HH11	4:MA:222:ARG:CG	2.13	0.45
4:MA:232:VAL:HG13	3:XA:111:ASN:C	2.18	0.45
2:QA:68:GLN:CA	2:U1:46:SER:CB	2.53	0.45
2:SA:42:ARG:NH2	3:TA:25:ASN:OD1	2.46	0.45
2:UA:128:ILE:CG2	2:UA:132:LYS:HE3	2.47	0.45
2:YA:128:ILE:CG2	2:YA:132:LYS:HE3	2.47	0.45
12:P1:201:CYC:HBA2	4:M1:133:ARG:HB3	1.99	0.45
12:Q1:201:CYC:O2A	3:T1:67:ILE:HD12	2.17	0.45
2:S1:128:ILE:HG22	2:S1:132:LYS:HE3	1.98	0.45
2:G3:65:TYR:CD1	2:A3:65:TYR:CD1	3.05	0.45
3:J3:77:ARG:HG3	2:K3:111:ALA:HB3	1.90	0.45
3:H2:88:ILE:HG21	12:H2:201:CYC:CAB	2.46	0.45
2:I2:128:ILE:HG22	2:I2:132:LYS:HE3	1.98	0.45
2:C3:128:ILE:HG22	2:C3:132:LYS:HE3	1.98	0.45
3:D3:111:ASN:HD21	4:M3:65:ARG:HD2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:65:TYR:CD1	2:G4:65:TYR:CD1	3.05	0.45
2:A4:128:ILE:CG2	2:A4:132:LYS:HE3	2.47	0.45
3:B4:67:ILE:HD12	12:E4:201:CYC:O2A	2.17	0.45
4:M3:19:MET:HE2	4:M3:59:ILE:CD1	2.46	0.45
5:N3:66:ARG:HH11	5:N3:66:ARG:CB	2.22	0.45
2:O3:128:ILE:CG2	2:O3:132:LYS:HE3	2.47	0.45
3:P3:67:ILE:HD12	12:S3:201:CYC:O2A	2.17	0.45
3:U4:88:ILE:HG21	12:U4:201:CYC:CAB	2.46	0.45
3:F4:112:GLY:C	3:F4:114:LYS:N	2.74	0.45
2:K4:128:ILE:CG2	2:K4:132:LYS:HE3	2.47	0.45
8:O5:29:PHE:CE2	1:P5:31:PHE:HE1	2.34	0.45
3:Y4:88:ILE:CA	3:Y4:91:ARG:NH2	2.80	0.45
8:c5:120:GLN:CG	1:f5:53:LYS:HZ1	2.26	0.45
12:P5:201:CYC:CMA	12:P5:201:CYC:NB	2.74	0.45
12:X5:201:CYC:HMD1	12:X5:201:CYC:NC	2.09	0.45
7:N6:20:VAL:HG21	7:N6:39:TYR:CE1	2.51	0.45
10:j5:44:ASP:O	10:j5:48:GLY:N	2.48	0.45
10:j5:186:LEU:HD21	12:j5:1201:CYC:HMB3	1.98	0.45
10:j5:1008:PHE:CE1	12:v7:201:CYC:CBB	2.93	0.45
10:j5:1009:ALA:HB2	1:v7:87:TYR:OH	2.15	0.45
10:j5:1017:ARG:O	10:j5:1018:LEU:HD23	2.17	0.45
10:k5:355:ARG:NH1	10:k5:358:GLU:OE1	2.48	0.45
10:k5:1147:TYR:CD1	10:k5:1147:TYR:O	2.69	0.45
8:C7:17:TYR:OH	1:D7:89:LEU:HG	2.16	0.45
8:G7:82:LEU:HB3	11:a9:579:PHE:CD1	2.52	0.45
8:G7:120:GLN:CG	1:L7:53:LYS:NZ	2.78	0.45
1:h7:52:ILE:HG12	1:h7:133:MET:HE3	1.98	0.45
8:k7:94:TYR:OH	1:l7:17:LYS:O	2.24	0.45
1:b7:30:TYR:CD2	1:b7:30:TYR:O	2.70	0.45
12:A8:201:CYC:O2A	3:D8:67:ILE:HD12	2.17	0.45
8:o7:36:ARG:NH2	8:o7:36:ARG:CG	2.71	0.45
8:u7:42:THR:HG21	8:u7:141:LEU:CD2	2.47	0.45
3:O8:67:ILE:HD12	12:R8:201:CYC:O2A	2.17	0.45
3:L9:41:VAL:HG21	3:L9:98:LEU:CD1	2.47	0.45
4:M9:73:ASP:HA	3:D9:111:ASN:ND2	2.31	0.45
2:O9:34:ALA:CB	3:P9:31:VAL:HG11	2.38	0.45
12:P9:202:CYC:CMD	12:P9:202:CYC:NC	2.75	0.45
3:Y8:84:ARG:O	3:Y8:88:ILE:HG12	2.16	0.45
2:C9:128:ILE:HG22	2:C9:132:LYS:HE3	1.98	0.45
2:E9:128:ILE:CG2	2:E9:132:LYS:HE3	2.47	0.45
2:G9:128:ILE:CG2	2:G9:132:LYS:HE3	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I9:128:ILE:HG22	2:I9:132:LYS:HE3	1.98	0.45
3:R9:88:ILE:HG21	12:R9:201:CYC:CAB	2.46	0.45
12:T9:301:CYC:HC	12:T9:301:CYC:HMD3	1.82	0.45
3:V9:88:ILE:HG21	12:V9:201:CYC:CAB	2.46	0.45
2:G1:128:ILE:HG22	2:G1:132:LYS:HE3	1.98	0.45
11:a9:388:VAL:HG12	11:a9:392:ILE:HD11	1.99	0.45
11:a9:446:ALA:C	11:a9:447:SER:O	2.59	0.45
11:a9:522:ASP:OD1	11:a9:522:ASP:N	2.31	0.45
11:aA:93:LEU:HD13	11:aA:93:LEU:H	1.81	0.45
11:aA:438:TYR:O	11:aA:438:TYR:CD1	2.70	0.45
11:aA:731:GLN:HG2	3:L1:120:LEU:HD23	1.96	0.45
4:M1:110:TYR:HE2	4:M1:124:ARG:NH1	2.13	0.45
3:X1:67:ILE:HD12	12:Y1:201:CYC:O2A	2.17	0.45
2:A2:31:PHE:CG	3:B2:34:SER:CB	3.00	0.45
3:JA:116:THR:CG2	11:aA:521:PHE:CG	2.88	0.45
4:MA:163:ASN:CG	12:VA:201:CYC:HMA3	2.41	0.45
5:NA:34:LEU:HB3	3:PA:84:ARG:NH1	2.31	0.45
12:RA:201:CYC:HB	12:RA:201:CYC:CMA	2.26	0.45
2:SA:128:ILE:HG22	2:SA:132:LYS:HE3	1.97	0.45
2:YA:128:ILE:HG22	2:YA:132:LYS:HE3	1.98	0.45
2:A1:128:ILE:HG22	2:A1:132:LYS:HE3	1.98	0.45
3:L2:88:ILE:HG21	12:L2:201:CYC:CAB	2.46	0.45
3:F3:88:ILE:HG21	12:F3:201:CYC:CAB	2.46	0.45
12:F3:202:CYC:HC	12:F3:202:CYC:HMD3	1.78	0.45
3:L3:84:ARG:O	3:L3:88:ILE:HG12	2.16	0.45
12:L3:202:CYC:CMA	11:a9:713:ASN:OD1	2.64	0.45
4:M3:137:ILE:HB	4:M3:141:GLU:HB3	1.99	0.45
5:N3:22:LEU:O	5:N3:37:HIS:CE1	2.70	0.45
2:E4:128:ILE:CG2	2:E4:132:LYS:HE3	2.47	0.45
3:J4:67:ILE:HD12	12:K4:201:CYC:O2A	2.17	0.45
3:L4:71:GLY:HA3	11:aA:82:GLN:CG	2.41	0.45
4:M4:96:LYS:HE3	3:Q4:171:ILE:CG1	2.46	0.45
3:O4:67:ILE:HD12	12:R4:201:CYC:O2A	2.17	0.45
2:P4:19:LEU:HD21	3:Q4:95:TYR:HE1	1.44	0.45
8:K5:134:LYS:O	8:K5:138:THR:HB	2.16	0.45
8:M5:37:LEU:HD22	1:N5:24:LEU:HD22	1.99	0.45
2:X4:128:ILE:CG2	2:X4:132:LYS:HE3	2.47	0.45
1:H5:2:GLN:CD	10:j5:551:MET:HG2	2.41	0.45
1:H5:10:ASN:OD1	10:j5:557:VAL:CG2	2.65	0.45
8:I5:95:GLY:CA	8:I5:104:ILE:HD11	2.47	0.45
8:e5:94:TYR:O	8:e5:97:VAL:CG2	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P5:161:SER:HB3	10:k5:11:VAL:HG21	1.99	0.45
1:R5:87:TYR:CE1	10:k5:521:GLY:HA3	2.51	0.45
10:j5:965:GLN:HB3	10:j5:969:VAL:CG1	2.44	0.45
10:j5:1004:VAL:HG13	10:j5:1066:PHE:CZ	2.52	0.45
10:k5:357:LEU:CD1	10:k5:379:PHE:N	2.80	0.45
10:k5:1008:PHE:CZ	1:p7:87:TYR:OH	2.60	0.45
3:H6:67:ILE:HD12	12:I6:201:CYC:O2A	2.17	0.45
8:O7:94:TYR:O	8:O7:97:VAL:CG2	2.65	0.45
8:O7:161:GLN:CD	1:F7:49:THR:HG22	2.41	0.45
8:S7:94:TYR:OH	1:T7:17:LYS:O	2.23	0.45
8:I7:134:LYS:O	8:I7:138:THR:HB	2.16	0.45
1:N7:106:GLU:HG2	9:z7:58:THR:HG23	1.96	0.45
8:g7:25:ARG:NH2	8:u7:25:ARG:CD	2.80	0.45
1:h7:76:ARG:CA	8:i7:110:ILE:O	2.65	0.45
8:i7:25:ARG:NH1	8:s7:6:LYS:CA	2.69	0.45
1:Z7:67:ARG:HH22	11:a9:307:ARG:HB3	0.50	0.45
8:a7:59:PHE:HB3	11:a9:331:TYR:CE1	2.52	0.45
8:c7:20:PRO:HD3	8:m7:155:TYR:CD1	2.52	0.45
8:c7:53:GLN:HB2	8:c7:136:VAL:CG2	2.47	0.45
2:C8:128:ILE:HG22	2:C8:132:LYS:HE3	1.98	0.45
8:o7:34:GLU:HG3	1:p7:28:LYS:CD	2.46	0.45
8:o7:37:LEU:HD23	8:o7:37:LEU:HA	1.59	0.45
8:o7:134:LYS:O	8:o7:138:THR:HB	2.16	0.45
8:u7:81:CYS:HA	12:u7:201:CYC:HAC1	1.23	0.45
2:X8:15:GLN:CG	4:M8:211:GLN:HE22	2.30	0.45
3:F8:116:THR:N	4:M8:3:VAL:CG1	2.79	0.45
12:H8:201:CYC:HMA1	11:a9:261:SER:HB2	1.97	0.45
12:H8:201:CYC:CBA	11:a9:261:SER:HB2	2.47	0.45
3:L8:117:TYR:CE1	12:a9:901:CYC:NA	2.85	0.45
3:L9:84:ARG:HE	11:a9:406:LEU:HD22	1.82	0.45
3:L9:90:LEU:CD2	2:K9:18:PHE:CZ	3.00	0.45
2:A9:152:ALA:HB1	2:K9:21:ASN:HB2	1.99	0.45
3:H9:67:ILE:HD12	12:I9:201:CYC:O2A	2.17	0.45
3:J9:19:LEU:CD1	3:J9:24:LEU:HD21	2.47	0.45
2:K9:38:MET:HE2	2:K9:38:MET:HB3	1.81	0.45
3:Z9:88:ILE:HG21	12:Z9:202:CYC:CAB	2.46	0.45
11:a9:438:TYR:CD1	11:a9:438:TYR:O	2.70	0.45
11:a9:643:LEU:CD1	11:a9:766:ASN:O	2.65	0.45
11:aA:371:VAL:HG11	11:aA:507:PHE:CB	2.47	0.45
11:aA:485:GLU:OE2	11:aA:485:GLU:HA	2.17	0.45
11:aA:643:LEU:CD2	11:aA:689:VAL:CG2	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:775:LYS:O	11:aA:777:GLN:HG2	2.17	0.45
4:M1:273:ILE:HA	3:Z1:77:ARG:CZ	2.47	0.45
5:N1:37:HIS:O	5:N1:37:HIS:CD2	2.70	0.45
2:Y1:128:ILE:HG22	2:Y1:132:LYS:HE3	1.98	0.45
2:C2:128:ILE:CG2	2:C2:132:LYS:HE3	2.47	0.45
3:F2:85:ASP:OD2	12:F2:201:CYC:NA	2.49	0.45
1:A:127:VAL:CG1	1:R5:15:GLN:HG2	2.38	0.45
2:AA:59:VAL:O	2:AA:66:LEU:CD1	2.62	0.45
2:AA:128:ILE:CG2	2:AA:132:LYS:HE3	2.47	0.45
3:JA:119:ALA:HB1	11:aA:365:LYS:CE	2.34	0.45
3:LA:41:VAL:HG21	3:LA:98:LEU:CD1	2.47	0.45
2:O1:65:TYR:CD1	2:U1:65:TYR:CD1	3.04	0.45
2:Q1:128:ILE:CG2	2:Q1:132:LYS:HE3	2.47	0.45
2:A1:59:VAL:O	2:A1:66:LEU:CD1	2.62	0.45
2:G2:128:ILE:HG22	2:G2:132:LYS:HE3	1.98	0.45
3:L2:78:ARG:HH22	6:M2:70:GLU:HA	1.82	0.45
3:B3:125:ARG:HD2	3:X3:14:LEU:HD13	1.97	0.45
12:Z3:202:CYC:CMD	12:Z3:202:CYC:NC	2.75	0.45
2:O3:60:TYR:CB	2:O3:67:THR:CG2	2.83	0.45
3:P3:88:ILE:HG21	12:P3:201:CYC:CAB	2.46	0.45
12:X3:201:CYC:HC	12:X3:201:CYC:HMD3	1.82	0.45
3:J4:88:ILE:HG21	12:J4:201:CYC:CAB	2.46	0.45
4:M4:26:SER:CB	11:aA:228:GLU:CG	2.94	0.45
4:M4:160:THR:CG2	4:M4:257:GLN:CG	2.93	0.45
3:O4:120:LEU:CD2	5:Z4:14:LYS:HZ1	2.30	0.45
1:D5:39:ARG:C	1:D5:41:ALA:N	2.70	0.45
8:I5:16:ARG:HH11	8:I5:16:ARG:HG2	1.82	0.45
8:S5:37:LEU:HD22	1:T5:24:LEU:HD22	1.99	0.45
12:b5:201:CYC:CMA	12:b5:201:CYC:NB	2.74	0.45
6:M6:104:ARG:HD3	2:G6:15:GLN:CA	2.42	0.45
9:z5:27:PHE:HE2	9:z5:52:LEU:HD11	1.82	0.45
10:j5:825:ASN:CB	12:H7:201:CYC:OB	2.52	0.45
10:j5:959:PHE:HD2	1:t7:67:ARG:HH12	1.65	0.45
10:j5:984:ILE:HD12	10:j5:984:ILE:O	2.17	0.45
10:j5:1008:PHE:HZ	1:v7:83:ARG:NH1	2.15	0.45
10:j5:1150:TYR:HE1	11:aA:38:VAL:CG1	2.29	0.45
10:k5:166:TYR:HB3	10:k5:179:LEU:CD2	2.47	0.45
10:k5:724:GLU:O	10:k5:724:GLU:CG	2.65	0.45
10:k5:984:ILE:HD12	10:k5:984:ILE:O	2.17	0.45
12:C6:201:CYC:O2A	3:F6:67:ILE:HD12	2.17	0.45
3:H6:88:ILE:HG21	12:H6:201:CYC:CAB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O7:95:GLY:CA	8:O7:104:ILE:HD11	2.47	0.45
8:C7:15:ALA:HA	1:D7:90:ARG:CZ	2.47	0.45
8:i7:92:VAL:CG2	8:i7:156:LEU:HG	2.47	0.45
3:B8:82:CYS:CA	12:B8:202:CYC:H2C	2.45	0.45
3:B8:85:ASP:OD2	3:B8:117:TYR:OH	2.33	0.45
8:o7:39:ILE:HD11	8:o7:145:ASP:CA	2.47	0.45
2:G8:38:MET:HE2	2:G8:38:MET:HB3	1.81	0.45
4:M8:5:THR:C	4:M8:6:THR:OG1	2.56	0.45
4:M8:51:ARG:NH1	4:M8:51:ARG:CG	2.77	0.45
4:M8:231:THR:H	12:M8:301:CYC:C4B	2.29	0.45
2:Q9:128:ILE:CG2	2:Q9:132:LYS:HE3	2.47	0.45
12:Q9:201:CYC:O2A	3:T9:67:ILE:HD12	2.17	0.45
2:A9:34:ALA:CB	3:B9:31:VAL:HG11	2.39	0.45
12:C9:201:CYC:O2A	3:F9:67:ILE:HD12	2.17	0.45
2:E9:2:LYS:NZ	2:I9:17:ARG:CZ	2.69	0.45
2:E9:38:MET:HE2	2:E9:38:MET:HB3	1.81	0.45
3:X9:67:ILE:HD12	12:Y9:201:CYC:O2A	2.17	0.45
12:G1:201:CYC:O2A	3:L1:67:ILE:HD12	2.17	0.45
11:a9:337:GLU:CG	11:a9:339:GLU:HG2	2.47	0.45
11:a9:710:THR:HA	11:a9:807:GLN:HB2	1.99	0.45
11:a9:775:LYS:O	11:a9:777:GLN:HG2	2.17	0.45
11:a9:809:ARG:HG3	11:a9:810:GLN:H	1.82	0.45
11:aA:30:MET:HE3	11:aA:35:ARG:CA	2.46	0.45
11:aA:527:LEU:HD23	11:aA:527:LEU:HA	1.62	0.45
11:aA:615:ARG:H	11:aA:615:ARG:HG2	1.55	0.45
11:aA:643:LEU:HD13	11:aA:766:ASN:CG	2.41	0.45
12:A:201:CYC:CMA	12:A:201:CYC:NB	2.74	0.45
1:Z:13:ASP:OD2	8:e5:107:ILE:CD1	2.65	0.45
2:IA:128:ILE:CG2	2:IA:132:LYS:HE3	2.47	0.45
5:NA:62:ARG:NE	2:SA:14:SER:CA	2.56	0.45
3:PA:67:ILE:HD12	12:SA:201:CYC:O2A	2.17	0.45
2:QA:2:LYS:NZ	2:UA:17:ARG:CZ	2.80	0.45
2:QA:128:ILE:CG2	2:QA:132:LYS:HE3	2.47	0.45
3:TA:29:ASN:ND2	2:X4:61:ASN:HA	2.31	0.45
12:UA:201:CYC:O2A	3:ZA:67:ILE:HD12	2.17	0.45
12:G3:201:CYC:O2A	3:L3:67:ILE:HD12	2.17	0.45
3:J3:84:ARG:NH1	11:a9:668:TYR:CB	2.61	0.45
3:J2:67:ILE:HD12	12:K2:201:CYC:O2A	2.17	0.45
2:K2:128:ILE:CG2	2:K2:132:LYS:HE3	2.47	0.45
2:C3:38:MET:HE2	2:C3:38:MET:HB3	1.81	0.45
3:Z3:77:ARG:CZ	4:M3:273:ILE:HA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B4:117:TYR:CE1	4:M4:53:LEU:CD1	3.00	0.45
2:O3:65:TYR:CD1	2:U3:65:TYR:CD1	3.04	0.45
3:W4:88:ILE:HG21	12:W4:201:CYC:CAB	2.46	0.45
2:G4:15:GLN:HE21	11:aA:120:ARG:HH11	1.64	0.45
12:H4:201:CYC:HC	12:H4:201:CYC:HMD3	1.82	0.45
3:J4:108:ARG:NE	11:aA:171:ARG:O	2.50	0.45
3:L4:65:ASP:CA	11:aA:82:GLN:OE1	2.65	0.45
4:M4:153:LYS:O	4:M4:157:PHE:HB3	2.17	0.45
4:M4:261:VAL:HG11	4:M4:266:LEU:HD13	1.99	0.45
3:O4:88:ILE:HG21	12:O4:201:CYC:CAB	2.46	0.45
3:Q4:116:THR:O	3:Q4:117:TYR:C	2.60	0.45
8:O5:19:SER:OG	8:O5:20:PRO:HD2	2.17	0.45
2:X4:38:MET:HE2	2:X4:38:MET:HB3	1.81	0.45
8:A5:52:LYS:HB3	8:A5:52:LYS:HE3	1.43	0.45
8:C5:16:ARG:CG	8:C5:16:ARG:NH1	2.77	0.45
8:E5:101:VAL:O	8:E5:102:THR:C	2.57	0.45
8:I5:94:TYR:O	8:I5:97:VAL:CG2	2.65	0.45
8:I5:134:LYS:O	8:I5:138:THR:HB	2.16	0.45
12:J5:201:CYC:CMA	12:J5:201:CYC:NB	2.74	0.45
7:N6:17:LYS:HB3	7:N6:66:GLU:HB2	1.99	0.45
9:z5:17:VAL:O	9:z5:17:VAL:HG23	2.16	0.45
9:z5:45:GLN:HG2	9:z5:45:GLN:H	1.66	0.45
10:j5:558:VAL:HG13	10:j5:561:GLU:HB2	1.99	0.45
10:j5:1023:SER:HA	12:f7:201:CYC:HBA1	1.99	0.45
10:j5:1067:LEU:CD1	10:j5:1101:GLU:CD	2.90	0.45
10:k5:82:MET:HE3	10:k5:82:MET:HB3	1.73	0.45
10:k5:283:ARG:CD	10:k5:283:ARG:H	2.30	0.45
10:k5:576:PHE:N	10:k5:576:PHE:CD1	2.84	0.45
10:k5:729:ILE:HD13	10:k5:729:ILE:HG21	1.72	0.45
10:k5:764:PHE:CD1	10:k5:764:PHE:O	2.70	0.45
10:k5:970:GLY:HA3	1:n7:77:ARG:NH2	2.12	0.45
10:k5:1106:PHE:C	10:k5:1110:ILE:HD12	2.38	0.45
10:k5:1145:PRO:O	1:l7:14:VAL:HG11	2.17	0.45
2:A6:19:LEU:O	3:B6:45:THR:CG2	2.64	0.45
2:E6:128:ILE:HG22	2:E6:132:LYS:HE3	1.98	0.45
8:G7:64:ASP:O	8:G7:67:SER:HB2	2.16	0.45
1:H7:71:MEN:O	1:H7:77:ARG:HD3	2.18	0.45
8:I7:27:LYS:HA	8:I7:30:VAL:HG22	1.99	0.45
8:g7:90:ARG:NH2	1:h7:16:GLY:CA	2.80	0.45
8:U7:134:LYS:O	8:U7:138:THR:HB	2.16	0.45
8:a7:95:GLY:CA	8:a7:104:ILE:HD11	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b7:76:ARG:HD3	8:c7:110:ILE:CD1	2.46	0.45
1:d7:76:ARG:NH2	9:x7:67:VAL:HG11	2.32	0.45
8:e7:64:ASP:O	8:e7:67:SER:HB2	2.17	0.45
2:A8:128:ILE:CG2	2:A8:132:LYS:HE3	2.47	0.45
8:o7:23:LEU:HD13	1:p7:38:VAL:O	2.17	0.45
8:s7:95:GLY:CA	8:s7:104:ILE:HD11	2.47	0.45
8:u7:23:LEU:HD13	1:v7:38:VAL:O	2.17	0.45
8:u7:37:LEU:HD23	8:u7:37:LEU:HA	1.59	0.45
2:X8:61:ASN:HA	3:T9:29:ASN:ND2	2.31	0.45
12:H8:201:CYC:OB	11:a9:129:ASN:CG	2.58	0.45
2:I8:128:ILE:CG2	2:I8:132:LYS:HE3	2.47	0.45
4:M8:96:LYS:H	4:M8:96:LYS:HG2	1.58	0.45
4:M8:129:GLU:HA	4:M8:142:PHE:CZ	2.52	0.45
4:M8:268:ARG:HH12	3:Y8:112:GLY:N	2.14	0.45
3:O8:107:ASP:OD1	5:Z8:66:ARG:CZ	2.65	0.45
2:P8:38:MET:HE2	2:P8:38:MET:HB3	1.81	0.45
3:Q8:37:ARG:NH1	3:Q8:97:LEU:O	2.42	0.45
5:N9:37:HIS:O	5:N9:37:HIS:CD2	2.70	0.45
2:Q9:128:ILE:HG22	2:Q9:132:LYS:HE3	1.98	0.45
5:Z8:41:GLN:O	12:Z8:301:CYC:HMA2	1.90	0.45
2:A9:19:LEU:O	3:B9:45:THR:CG2	2.64	0.45
12:A9:201:CYC:O2A	3:D9:67:ILE:HD12	2.17	0.45
3:X9:88:ILE:HG21	12:X9:201:CYC:CAB	2.46	0.45
11:a9:328:GLN:CA	11:a9:328:GLN:HE21	2.30	0.45
11:a9:615:ARG:HA	11:a9:616:PRO:HD2	1.32	0.45
11:a9:643:LEU:HD13	11:a9:766:ASN:CG	2.42	0.45
3:H1:67:ILE:HD12	12:I1:201:CYC:O2A	2.17	0.45
4:M1:52:LEU:HD22	4:M1:52:LEU:O	2.17	0.45
2:A2:34:ALA:CB	3:B2:31:VAL:HG11	2.39	0.45
3:D2:88:ILE:HG21	12:D2:201:CYC:CAB	2.46	0.45
2:CA:128:ILE:CG2	2:CA:132:LYS:HE3	2.47	0.44
3:FA:84:ARG:CZ	4:MA:53:LEU:HD22	2.47	0.44
2:GA:128:ILE:CG2	2:GA:132:LYS:HE3	2.47	0.44
4:MA:29:PRO:HG3	11:aA:378:GLU:HG3	1.99	0.44
4:MA:185:ALA:HB1	12:VA:201:CYC:CGA	2.42	0.44
4:MA:235:PHE:CD1	4:MA:235:PHE:O	2.70	0.44
2:QA:33:ARG:CD	12:VA:202:CYC:HBB3	2.43	0.44
12:QA:201:CYC:CGA	3:TA:67:ILE:HD13	2.47	0.44
12:TA:301:CYC:HC	12:TA:301:CYC:HMD3	1.82	0.44
2:O1:38:MET:HE2	2:O1:38:MET:HB3	1.81	0.44
12:P1:201:CYC:HC	12:P1:201:CYC:HMD3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:19:LEU:O	3:B1:45:THR:CG2	2.64	0.44
12:J2:201:CYC:CMD	12:J2:201:CYC:NC	2.75	0.44
12:A3:201:CYC:O2A	3:D3:67:ILE:HD12	2.17	0.44
3:B3:88:ILE:HB	12:B3:202:CYC:HMB2	1.99	0.44
3:B3:126:SER:HB2	12:B3:202:CYC:HMC2	1.98	0.44
12:C3:201:CYC:O2A	3:F3:67:ILE:HD12	2.17	0.44
3:F3:113:LEU:HD13	4:M3:38:PRO:HB2	1.98	0.44
12:F3:201:CYC:HBB2	4:M3:38:PRO:CD	2.47	0.44
3:B4:120:LEU:HD23	4:M4:49:LEU:O	2.16	0.44
12:C4:201:CYC:O2A	3:F4:67:ILE:HD12	2.17	0.44
3:L3:119:ALA:HB1	11:a9:813:PRO:CA	2.39	0.44
4:M3:74:LEU:HD23	4:M3:74:LEU:HA	1.68	0.44
4:M3:91:VAL:O	4:M3:218:VAL:HG23	2.17	0.44
12:H4:201:CYC:CBA	11:aA:261:SER:OG	2.66	0.44
2:I4:128:ILE:CG2	2:I4:132:LYS:HE3	2.47	0.44
2:N4:34:ALA:HB3	3:O4:31:VAL:CG1	2.39	0.44
8:K5:17:TYR:CB	1:L5:45:SER:HB2	2.48	0.44
8:K5:71:ASN:CG	8:K5:121:THR:HA	2.42	0.44
8:K5:111:GLY:C	1:J5:75:THR:HB	2.41	0.44
12:N5:201:CYC:HMD1	12:N5:201:CYC:NC	2.09	0.44
8:C5:134:LYS:O	8:C5:138:THR:HB	2.16	0.44
1:D5:74:THR:OG1	1:D5:76:ARG:HG2	2.17	0.44
8:c5:120:GLN:CG	1:f5:53:LYS:NZ	2.78	0.44
1:f5:18:TYR:CG	10:j5:165:ARG:CG	2.98	0.44
12:V5:201:CYC:O2D	10:j5:642:ARG:NH2	2.47	0.44
8:W5:116:TYR:CB	8:W5:123:ILE:HG12	2.48	0.44
3:L6:78:ARG:HH22	6:M6:70:GLU:HA	1.82	0.44
6:M6:10:LYS:HB3	6:M6:11:VAL:H	1.58	0.44
8:A7:64:ASP:O	8:A7:67:SER:HB2	2.16	0.44
10:j5:287:ASN:HD22	10:j5:287:ASN:HA	1.55	0.44
10:j5:764:PHE:CD1	10:j5:764:PHE:C	2.94	0.44
10:k5:296:VAL:O	10:k5:296:VAL:HG12	2.14	0.44
10:k5:966:SER:OG	1:p7:14:VAL:HG13	2.16	0.44
8:C7:95:GLY:CA	8:C7:104:ILE:HD11	2.47	0.44
8:k7:134:LYS:O	8:k7:138:THR:HB	2.16	0.44
8:a7:90:ARG:NH2	1:b7:16:GLY:CA	2.80	0.44
3:B8:68:ARG:NH2	3:U8:68:ARG:NH1	2.64	0.44
1:n7:72:MET:HE2	1:n7:72:MET:HB3	1.87	0.44
8:s7:94:TYR:O	8:s7:97:VAL:CG2	2.65	0.44
8:u7:23:LEU:HA	1:v7:38:VAL:HG21	1.97	0.44
8:u7:30:VAL:HB	1:v7:31:PHE:HB3	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u7:80:LEU:HA	8:u7:80:LEU:HD23	1.63	0.44
8:u7:94:TYR:HD1	1:v7:19:LEU:HG	1.79	0.44
3:F8:111:ASN:C	4:M8:76:ALA:HB1	2.42	0.44
12:F8:202:CYC:HC	12:F8:202:CYC:HMD3	1.82	0.44
2:G8:128:ILE:CG2	2:G8:132:LYS:HE3	2.47	0.44
3:L8:120:LEU:CD1	12:a9:901:CYC:CAA	2.91	0.44
4:M8:153:LYS:O	4:M8:157:PHE:HB3	2.17	0.44
4:M8:231:THR:N	12:M8:301:CYC:OB	2.50	0.44
4:M8:261:VAL:HG11	4:M8:266:LEU:HD13	1.99	0.44
2:N8:128:ILE:CG2	2:N8:132:LYS:HE3	2.47	0.44
3:Q8:120:LEU:CD1	3:Q8:120:LEU:C	2.89	0.44
2:R8:128:ILE:CG2	2:R8:132:LYS:HE3	2.47	0.44
3:L9:109:CYS:C	3:L9:111:ASN:N	2.71	0.44
4:M9:153:LYS:O	4:M9:157:PHE:HB3	2.17	0.44
4:M9:191:TYR:OH	2:U9:16:GLY:HA2	2.17	0.44
4:M9:258:LYS:HG3	3:V9:111:ASN:HD21	1.76	0.44
12:O9:201:CYC:O2A	3:R9:67:ILE:HD12	2.17	0.44
3:Y8:101:ASP:C	3:Y8:103:SER:H	2.24	0.44
5:Z8:29:HIS:NE2	5:Z8:36:THR:CG2	2.79	0.44
2:A9:65:TYR:CD1	2:G9:65:TYR:CD1	3.05	0.44
11:a9:25:GLU:C	11:a9:27:PHE:N	2.75	0.44
11:aA:388:VAL:HG12	11:aA:392:ILE:HD11	1.99	0.44
11:aA:615:ARG:HA	11:aA:616:PRO:HD2	1.32	0.44
4:M1:91:VAL:O	4:M1:218:VAL:HG23	2.17	0.44
3:V1:67:ILE:HD12	12:W1:201:CYC:O2A	2.17	0.44
3:V1:88:ILE:HG21	12:V1:201:CYC:CAB	2.46	0.44
3:X1:88:ILE:HG21	12:X1:201:CYC:CAB	2.46	0.44
1:A:83:ARG:CD	10:k5:259:PRO:HD3	2.47	0.44
3:FA:88:ILE:HG21	12:FA:301:CYC:CAB	2.46	0.44
12:HA:202:CYC:HC	12:HA:202:CYC:HMD3	1.82	0.44
3:JA:19:LEU:CD1	3:JA:24:LEU:HD21	2.47	0.44
12:JA:202:CYC:HB	12:JA:202:CYC:CMA	2.26	0.44
2:KA:18:PHE:CZ	3:LA:90:LEU:CD2	3.00	0.44
2:OA:59:VAL:O	2:OA:66:LEU:CD1	2.62	0.44
3:H3:124:THR:HB	3:H3:171:ILE:O	2.18	0.44
12:Z3:201:CYC:HC	12:Z3:201:CYC:HMD3	1.82	0.44
2:O3:31:PHE:CG	3:P3:34:SER:CB	3.00	0.44
2:O3:34:ALA:HB3	3:P3:31:VAL:CG1	2.39	0.44
2:S3:128:ILE:CG2	2:S3:132:LYS:HE3	2.47	0.44
12:T3:301:CYC:HC	12:T3:301:CYC:HMD3	1.82	0.44
3:S4:67:ILE:HD12	12:P4:201:CYC:O2A	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T4:65:TYR:CD1	2:N4:65:TYR:CD1	3.05	0.44
12:T4:201:CYC:O2A	3:Y4:67:ILE:HD12	2.17	0.44
12:W4:202:CYC:CMD	12:W4:202:CYC:NC	2.75	0.44
12:G4:201:CYC:O2A	3:L4:67:ILE:HD12	2.17	0.44
4:M4:56:MET:SD	4:M4:66:VAL:HG22	2.55	0.44
4:M4:197:ASP:OD1	5:Z4:52:ARG:CD	2.60	0.44
4:M4:232:VAL:HA	12:M4:301:CYC:C3B	2.47	0.44
2:N4:19:LEU:O	3:O4:45:THR:CG2	2.64	0.44
2:N4:38:MET:HE2	2:N4:38:MET:HB3	1.81	0.44
2:P4:128:ILE:CG2	2:P4:132:LYS:HE3	2.47	0.44
8:C5:26:ILE:HD13	8:C5:26:ILE:HG21	1.60	0.44
8:E5:80:LEU:HD13	12:E5:201:CYC:CHA	2.47	0.44
1:J5:74:THR:OG1	1:J5:76:ARG:HG2	2.17	0.44
8:e5:27:LYS:HA	8:e5:30:VAL:HG22	1.99	0.44
8:S5:41:GLN:NE2	1:D7:143:PRO:CG	2.78	0.44
8:W5:17:TYR:CD2	1:X5:93:THR:CG2	2.92	0.44
3:J6:67:ILE:HD12	12:K6:201:CYC:O2A	2.17	0.44
9:i5:11:ILE:HD11	9:i5:28:PHE:CE2	2.52	0.44
10:j5:309:LEU:HD13	10:j5:342:LEU:CD1	2.46	0.44
10:j5:1025:LEU:N	10:j5:1030:ILE:HG22	2.33	0.44
10:k5:379:PHE:O	10:k5:379:PHE:CG	2.68	0.44
10:k5:820:HIS:CD2	10:k5:820:HIS:O	2.69	0.44
2:A6:31:PHE:CG	3:B6:34:SER:CB	3.00	0.44
2:E6:38:MET:HE2	2:E6:38:MET:HB3	1.81	0.44
12:D7:201:CYC:CMA	12:D7:201:CYC:NB	2.74	0.44
12:N7:201:CYC:CMA	12:N7:201:CYC:NB	2.74	0.44
1:b7:52:ILE:HG12	1:b7:133:MET:HE3	1.98	0.44
3:B8:107:ASP:O	4:M8:61:ASN:C	2.61	0.44
3:D8:77:ARG:HD2	4:M8:33:LEU:HD11	1.98	0.44
8:q7:90:ARG:HB2	1:r7:18:TYR:CE1	2.52	0.44
9:z7:29:THR:HG22	9:z7:30:LYS:N	2.31	0.44
3:W8:67:ILE:HD12	12:X8:201:CYC:O2A	2.17	0.44
12:M8:301:CYC:C4B	3:Y8:88:ILE:CG2	2.80	0.44
3:O8:88:ILE:HG21	12:O8:201:CYC:CAB	2.46	0.44
3:S8:124:THR:HB	3:S8:171:ILE:O	2.18	0.44
4:M9:51:ARG:NH1	4:M9:51:ARG:CG	2.78	0.44
5:N9:38:GLU:HG2	5:N9:40:SER:H	1.81	0.44
5:N9:57:MET:SD	12:T9:301:CYC:CMA	3.05	0.44
2:O9:65:TYR:CD1	2:U9:65:TYR:CD1	3.05	0.44
12:P9:202:CYC:HC	12:P9:202:CYC:HMD3	1.78	0.44
2:A9:128:ILE:CG2	2:A9:132:LYS:HE3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:R9:201:CYC:HB	12:R9:201:CYC:CMA	2.26	0.44
2:G1:128:ILE:CG2	2:G1:132:LYS:HE3	2.47	0.44
11:a9:67:GLN:C	11:a9:68:THR:HG23	2.42	0.44
11:aA:479:LYS:HB3	11:aA:479:LYS:HE2	1.68	0.44
11:aA:712:ASN:CG	3:L1:108:ARG:O	2.52	0.44
11:aA:809:ARG:HG3	11:aA:810:GLN:H	1.82	0.44
3:Z1:124:THR:HB	3:Z1:171:ILE:O	2.18	0.44
12:C2:201:CYC:O2A	3:F2:67:ILE:HD12	2.17	0.44
12:D2:202:CYC:CMD	12:D2:202:CYC:NC	2.75	0.44
1:A:16:GLY:CA	8:a5:90:ARG:NH1	2.72	0.44
1:Z:13:ASP:OD2	8:e5:107:ILE:CG1	2.62	0.44
1:Z:73:TYR:OH	10:j5:162:TRP:CE2	2.71	0.44
3:BA:14:LEU:HD11	3:XA:125:ARG:HD3	1.99	0.44
3:FA:144:SER:O	3:FA:144:SER:OG	2.30	0.44
3:JA:88:ILE:HG12	11:aA:512:TYR:CZ	2.52	0.44
4:MA:153:LYS:O	4:MA:157:PHE:HB3	2.17	0.44
4:MA:252:LEU:CD1	3:ZA:77:ARG:NH1	2.80	0.44
2:OA:24:LEU:HB3	12:PA:202:CYC:HAB2	2.00	0.44
2:SA:38:MET:HE2	2:SA:38:MET:HB3	1.81	0.44
12:TA:302:CYC:CMD	12:TA:302:CYC:NC	2.75	0.44
2:WA:128:ILE:CG2	2:WA:132:LYS:HE3	2.47	0.44
2:O1:128:ILE:CG2	2:O1:132:LYS:HE3	2.47	0.44
2:S1:128:ILE:CG2	2:S1:132:LYS:HE3	2.47	0.44
2:I3:128:ILE:CG2	2:I3:132:LYS:HE3	2.47	0.44
3:H2:67:ILE:HD12	12:I2:201:CYC:O2A	2.17	0.44
2:I2:76:ASP:OD2	11:aA:298:ILE:HG12	2.17	0.44
2:I2:128:ILE:CG2	2:I2:132:LYS:HE3	2.47	0.44
6:M2:26:PHE:C	8:O5:83:ARG:HD2	2.42	0.44
6:M2:127:SER:HB3	3:F2:84:ARG:NE	2.19	0.44
7:N2:17:LYS:HB3	7:N2:66:GLU:HB2	1.99	0.44
2:Q3:128:ILE:CG2	2:Q3:132:LYS:HE3	2.47	0.44
2:S3:128:ILE:HG22	2:S3:132:LYS:HE3	1.98	0.44
3:V3:124:THR:HB	3:V3:171:ILE:O	2.18	0.44
2:W3:128:ILE:CG2	2:W3:132:LYS:HE3	2.47	0.44
12:W4:201:CYC:HC	12:W4:201:CYC:HMD3	1.82	0.44
4:M4:93:LEU:HA	4:M4:93:LEU:HD12	1.65	0.44
4:M4:214:GLY:CA	5:Z4:27:ALA:C	2.73	0.44
4:M4:267:LEU:HD23	4:M4:267:LEU:HA	1.65	0.44
3:Q4:77:ARG:HG2	5:Z4:36:THR:HB	1.99	0.44
3:Q4:127:VAL:HG22	12:Z4:301:CYC:CMC	2.47	0.44
8:M5:21:GLY:H	8:A5:6:LYS:NZ	2.12	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O5:94:TYR:O	8:O5:97:VAL:CG2	2.65	0.44
3:Y4:87:GLU:CD	3:Y4:91:ARG:NH1	2.76	0.44
8:C5:37:LEU:HD11	1:D5:31:PHE:HE2	1.82	0.44
8:C5:95:GLY:CA	8:C5:104:ILE:HD11	2.47	0.44
8:C5:102:THR:CB	8:C5:103:PRO:HD3	2.33	0.44
1:H5:2:GLN:OE1	10:j5:551:MET:CE	2.62	0.44
12:J5:201:CYC:HMD1	12:J5:201:CYC:NC	2.09	0.44
1:P5:110:ASN:OD1	10:k5:489:ASN:O	2.35	0.44
8:S5:134:LYS:O	8:S5:138:THR:HB	2.16	0.44
8:Y5:90:ARG:HB2	1:Z5:18:TYR:CE1	2.53	0.44
6:M6:243:ALA:HA	12:H6:201:CYC:HBB2	1.94	0.44
9:z5:9:ALA:CA	9:z5:50:LYS:O	2.63	0.44
9:z5:16:ARG:HE	9:z5:16:ARG:HA	1.82	0.44
10:j5:388:ARG:HA	10:j5:394:PRO:CG	2.46	0.44
10:k5:322:LYS:NZ	10:k5:336:ARG:NH1	2.66	0.44
10:k5:544:VAL:HG13	10:k5:564:VAL:CG2	2.48	0.44
10:k5:630:ILE:O	10:k5:630:ILE:HG22	2.14	0.44
10:k5:1067:LEU:CD1	10:k5:1101:GLU:CD	2.90	0.44
8:O7:134:LYS:O	8:O7:138:THR:HB	2.16	0.44
8:S7:25:ARG:NH2	8:G7:25:ARG:CZ	2.80	0.44
1:B7:71:MEN:O	1:B7:77:ARG:HD3	2.18	0.44
8:C7:134:LYS:O	8:C7:138:THR:HB	2.16	0.44
8:E7:116:TYR:CB	8:E7:123:ILE:HG12	2.47	0.44
8:I7:6:LYS:HZ3	8:W7:22:GLU:H	1.64	0.44
8:I7:94:TYR:O	8:I7:97:VAL:CG2	2.65	0.44
1:L7:72:MET:HE2	1:L7:72:MET:HB3	1.87	0.44
8:g7:95:GLY:CA	8:g7:104:ILE:HD11	2.47	0.44
8:k7:67:SER:HB3	8:k7:68:PRO:HD2	1.99	0.44
8:U7:15:ALA:HA	1:V7:90:ARG:CZ	2.47	0.44
8:W7:116:TYR:CB	8:W7:123:ILE:HG12	2.47	0.44
8:a7:94:TYR:O	8:a7:97:VAL:CG2	2.65	0.44
8:c7:12:ASP:CA	1:d7:94:TYR:OH	2.65	0.44
8:c7:92:VAL:CG2	8:c7:156:LEU:HG	2.47	0.44
8:e7:106:GLU:OE2	9:y7:68:GLY:O	2.35	0.44
12:f7:201:CYC:CMA	12:f7:201:CYC:NB	2.74	0.44
12:B8:202:CYC:HMA2	4:M8:58:TYR:CA	2.39	0.44
12:B8:202:CYC:HMD3	12:B8:202:CYC:HC	1.82	0.44
8:o7:8:ILE:O	8:o7:11:ALA:N	2.51	0.44
12:v7:201:CYC:CMA	12:v7:201:CYC:NB	2.74	0.44
2:T8:65:TYR:CD1	2:N8:65:TYR:CD1	3.05	0.44
3:H8:81:ALA:HA	3:H8:84:ARG:NH2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O8:107:ASP:HB3	5:Z8:66:ARG:HA	2.00	0.44
3:O8:112:GLY:HA2	5:Z8:69:GLU:CA	2.44	0.44
3:Q8:1:MET:SD	3:Q8:104:VAL:HB	2.58	0.44
4:M9:160:THR:HA	3:V9:107:ASP:O	2.18	0.44
4:M9:192:GLN:HE22	3:V9:87:GLU:HB3	1.82	0.44
3:P9:124:THR:HB	3:P9:171:ILE:O	2.18	0.44
3:Y8:92:TYR:CD1	3:Y8:105:LEU:HD22	2.52	0.44
2:A9:2:LYS:NZ	2:K9:17:ARG:NH2	2.65	0.44
3:B9:14:LEU:HD11	3:X9:125:ARG:HD3	1.99	0.44
2:E9:99:ALA:HB2	3:F9:9:ILE:HD13	2.00	0.44
3:J9:116:THR:CG2	11:a9:521:PHE:CD2	2.87	0.44
11:a9:93:LEU:HD13	11:a9:93:LEU:H	1.81	0.44
11:a9:245:ALA:CA	12:a9:901:CYC:HBB3	2.43	0.44
11:a9:332:SER:H	11:a9:333:GLN:HE21	1.64	0.44
11:a9:368:ILE:HG21	11:a9:368:ILE:HD13	1.68	0.44
11:a9:611:GLY:HA3	11:a9:614:SER:HB3	2.00	0.44
11:aA:337:GLU:CG	11:aA:339:GLU:HG2	2.47	0.44
11:aA:346:TYR:CD1	11:aA:346:TYR:O	2.70	0.44
11:aA:495:TYR:CD1	11:aA:495:TYR:O	2.70	0.44
11:aA:548:LEU:O	11:aA:552:LEU:HB2	2.17	0.44
11:aA:642:GLU:HG3	11:aA:643:LEU:N	2.29	0.44
11:aA:643:LEU:CD1	11:aA:766:ASN:O	2.65	0.44
11:aA:787:ARG:NH2	11:aA:819:SER:HB3	2.27	0.44
3:H1:81:ALA:HB3	12:H1:201:CYC:HMD1	1.98	0.44
5:N1:13:SER:HB3	5:N1:14:LYS:H	1.55	0.44
12:FA:301:CYC:HC	12:FA:301:CYC:HMD3	1.83	0.44
3:HA:84:ARG:NH1	11:aA:475:ASN:OD1	2.50	0.44
3:JA:67:ILE:HD12	12:KA:201:CYC:O2A	2.17	0.44
4:MA:56:MET:HE2	4:MA:56:MET:HB3	1.75	0.44
3:VA:124:THR:HB	3:VA:171:ILE:O	2.18	0.44
3:XA:67:ILE:HD12	12:YA:201:CYC:O2A	2.17	0.44
2:G3:38:MET:HE2	2:G3:38:MET:HB3	1.81	0.44
3:J3:77:ARG:NH2	2:K3:106:ASP:C	2.76	0.44
3:J3:81:ALA:HA	11:a9:668:TYR:CG	2.53	0.44
6:M2:127:SER:O	12:F2:201:CYC:CAA	2.61	0.44
7:N2:45:LEU:HD21	12:N2:101:CYC:O1D	2.18	0.44
2:A3:128:ILE:HG22	2:A3:132:LYS:HE3	1.98	0.44
3:B3:67:ILE:HD12	12:E3:201:CYC:O2A	2.17	0.44
5:N3:39:PRO:HD2	12:T3:301:CYC:HBB2	1.99	0.44
3:P3:65:ASP:OD1	3:P3:65:ASP:N	2.47	0.44
2:Q3:128:ILE:HG22	2:Q3:132:LYS:HE3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V3:88:ILE:HG21	12:V3:201:CYC:CAB	2.46	0.44
2:E4:128:ILE:HG22	2:E4:132:LYS:HE3	1.98	0.44
3:F4:2:GLN:HA	3:F4:6:THR:HG21	2.00	0.44
5:Z4:1:MET:CE	5:Z4:1:MET:CA	2.85	0.44
5:Z4:26:LEU:HD11	5:Z4:63:ASN:HB2	1.99	0.44
1:D5:73:TYR:CE1	12:E5:201:CYC:HBB2	2.53	0.44
8:e5:95:GLY:CA	8:e5:104:ILE:HD11	2.47	0.44
1:P5:114:GLU:CG	10:k5:496:GLU:CB	2.72	0.44
8:U5:95:GLY:CA	8:U5:104:ILE:HD11	2.47	0.44
6:M6:283:VAL:HG22	6:M6:284:SER:H	1.81	0.44
7:N6:1:MET:CE	7:N6:1:MET:H3	2.30	0.44
10:j5:56:ILE:HD11	10:j5:219:ASP:HB3	1.88	0.44
10:j5:152:ARG:CZ	10:j5:193:SER:HB2	2.44	0.44
10:j5:851:HIS:ND1	10:j5:851:HIS:O	2.51	0.44
10:k5:21:MET:HE3	10:k5:25:ILE:HD11	2.00	0.44
10:k5:222:LEU:HA	10:k5:222:LEU:HD23	1.51	0.44
10:k5:305:PHE:HE2	10:k5:337:LEU:HD23	1.83	0.44
12:k5:1203:CYC:CMA	12:k5:1203:CYC:NB	2.74	0.44
2:C6:128:ILE:CG2	2:C6:132:LYS:HE3	2.47	0.44
12:D6:201:CYC:HC	12:D6:201:CYC:HMD3	1.83	0.44
8:Q7:13:ALA:HB2	9:z7:46:LYS:HD3	2.00	0.44
8:Q7:67:SER:HB3	8:Q7:68:PRO:HD2	2.00	0.44
8:G7:120:GLN:CD	1:L7:53:LYS:HZ2	2.26	0.44
8:g7:115:MET:CE	1:f7:75:THR:HG22	2.48	0.44
12:X7:201:CYC:HMD1	12:X7:201:CYC:NC	2.09	0.44
1:Z7:67:ARG:NH2	11:a9:307:ARG:CB	2.28	0.44
1:b7:75:THR:HG21	8:c7:112:VAL:CB	2.48	0.44
8:c7:43:LEU:CD1	8:c7:141:LEU:HD11	2.31	0.44
2:E1:128:ILE:CG2	2:E1:132:LYS:HE3	2.47	0.44
8:m7:94:TYR:O	8:m7:97:VAL:CG2	2.65	0.44
8:o7:30:VAL:HB	1:p7:31:PHE:CB	2.48	0.44
8:o7:42:THR:HG21	8:o7:141:LEU:CD2	2.47	0.44
9:x7:63:ALA:HB1	9:x7:64:ASN:H	1.42	0.44
12:G8:201:CYC:O2A	3:L8:67:ILE:HD12	2.17	0.44
4:M9:29:PRO:HG3	11:a9:378:GLU:HG3	1.99	0.44
3:Y8:87:GLU:CD	3:Y8:91:ARG:CZ	2.90	0.44
11:a9:107:ARG:CB	11:a9:108:PRO:HD2	2.35	0.44
11:a9:346:TYR:CD1	11:a9:346:TYR:O	2.70	0.44
11:a9:462:ARG:CG	11:a9:462:ARG:NH1	2.71	0.44
11:aA:30:MET:HE3	11:aA:35:ARG:CD	2.44	0.44
11:aA:91:THR:C	11:aA:92:LYS:HE3	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:426:ARG:HD2	11:aA:490:ILE:HG23	1.99	0.44
12:A2:201:CYC:O2A	3:D2:67:ILE:HD12	2.17	0.44
2:AA:99:ALA:HB2	3:BA:9:ILE:HD13	2.00	0.44
2:AA:128:ILE:HG22	2:AA:132:LYS:HE3	1.98	0.44
2:AA:152:ALA:HB1	2:KA:21:ASN:HB2	1.99	0.44
12:AA:201:CYC:O2A	3:DA:67:ILE:HD12	2.17	0.44
2:KA:128:ILE:CG2	2:KA:132:LYS:HE3	2.47	0.44
3:LA:83:LEU:HD23	3:LA:83:LEU:HA	1.53	0.44
4:MA:51:ARG:HH11	4:MA:51:ARG:CG	2.27	0.44
4:MA:52:LEU:HD22	4:MA:52:LEU:O	2.17	0.44
2:QA:38:MET:HE2	2:QA:38:MET:HB3	1.81	0.44
2:QA:81:LYS:HZ1	3:TA:67:ILE:HD13	1.82	0.44
3:J3:124:THR:HB	3:J3:171:ILE:O	2.18	0.44
12:J3:202:CYC:HBA1	11:a9:667:THR:N	2.33	0.44
12:G2:201:CYC:O2A	3:L2:67:ILE:HD12	2.17	0.44
7:N2:4:ASN:OD1	3:F2:108:ARG:HB3	2.17	0.44
3:D3:68:ARG:CZ	3:X3:68:ARG:HH12	2.31	0.44
2:A4:31:PHE:CG	3:B4:34:SER:CB	3.00	0.44
2:C4:99:ALA:HB2	3:D4:9:ILE:HD13	2.00	0.44
12:D4:202:CYC:HC	12:D4:202:CYC:HMD3	1.83	0.44
4:M3:132:LEU:CD1	4:M3:142:PHE:CB	2.95	0.44
5:N3:6:GLY:N	3:P3:111:ASN:O	2.50	0.44
12:S4:202:CYC:HC	12:S4:202:CYC:HMD3	1.82	0.44
3:W4:67:ILE:HD12	12:X4:201:CYC:O2A	2.17	0.44
3:L4:63:GLN:C	3:L4:65:ASP:O	2.60	0.44
3:O4:112:GLY:HA2	5:Z4:69:GLU:HA	1.98	0.44
2:P4:19:LEU:CD2	3:Q4:95:TYR:CZ	2.98	0.44
8:O5:23:LEU:HD22	1:P5:38:VAL:HG13	2.00	0.44
3:Y4:85:ASP:O	3:Y4:88:ILE:CG1	2.65	0.44
3:Y4:131:VAL:HA	3:Y4:134:MET:HE2	1.98	0.44
8:A5:17:TYR:CD2	1:B5:45:SER:HB3	2.52	0.44
1:B5:71:MEN:O	1:B5:77:ARG:HD3	2.18	0.44
8:C5:16:ARG:HH11	8:C5:16:ARG:HG2	1.82	0.44
8:G5:67:SER:HB3	8:G5:68:PRO:HD2	2.00	0.44
8:I5:67:SER:HB3	8:I5:68:PRO:HD2	2.00	0.44
8:Q5:158:GLY:O	8:Q5:161:GLN:C	2.61	0.44
1:R5:71:MEN:O	1:R5:77:ARG:HD3	2.18	0.44
1:R5:106:GLU:HG3	10:k5:505:VAL:CG2	2.47	0.44
8:S5:105:GLU:OE1	10:j5:532:THR:HG22	2.17	0.44
8:U5:94:TYR:O	8:U5:97:VAL:CG2	2.65	0.44
8:a5:5:THR:C	8:a5:7:ALA:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:292:GLU:CD	10:j5:292:GLU:N	2.74	0.44
10:j5:292:GLU:OE1	10:j5:292:GLU:CA	2.66	0.44
10:j5:393:MET:HA	10:j5:394:PRO:HD3	1.68	0.44
10:j5:764:PHE:CD1	10:j5:764:PHE:O	2.70	0.44
10:j5:1050:PHE:CD1	10:j5:1050:PHE:O	2.70	0.44
10:k5:540:LEU:HD21	10:k5:544:VAL:HG21	2.00	0.44
10:k5:1006:ASP:CG	10:k5:1065:HIS:HE2	2.24	0.44
10:k5:1017:ARG:O	10:k5:1018:LEU:HD23	2.17	0.44
10:k5:1081:VAL:HG11	12:k5:1203:CYC:HB	1.82	0.44
12:A6:201:CYC:O2A	3:D6:67:ILE:HD12	2.17	0.44
1:P7:72:MET:HE2	1:P7:72:MET:HB3	1.86	0.44
8:I7:15:ALA:HA	1:J7:90:ARG:CZ	2.47	0.44
8:M7:90:ARG:HB2	1:N7:18:TYR:CE1	2.53	0.44
1:h7:71:MEN:O	1:h7:77:ARG:HD3	2.18	0.44
8:k7:64:ASP:O	8:k7:67:SER:HB2	2.17	0.44
8:k7:90:ARG:HB2	1:l7:18:TYR:CE1	2.52	0.44
8:U7:94:TYR:O	8:U7:97:VAL:CG2	2.65	0.44
1:b7:46:SER:HB2	8:o7:157:VAL:HG12	1.99	0.44
8:m7:37:LEU:HD23	8:m7:97:VAL:HG12	2.00	0.44
8:o7:23:LEU:HD13	1:p7:38:VAL:HG13	1.73	0.44
8:o7:47:ARG:CD	8:o7:47:ARG:C	2.89	0.44
8:o7:116:TYR:CB	8:o7:123:ILE:HG12	2.48	0.44
8:s7:15:ALA:HA	1:t7:90:ARG:CZ	2.47	0.44
8:u7:67:SER:HB3	8:u7:68:PRO:HD2	2.00	0.44
3:U8:67:ILE:HD12	12:V8:201:CYC:O2A	2.17	0.44
3:H8:124:THR:HB	3:H8:171:ILE:O	2.18	0.44
3:J8:124:THR:HB	3:J8:171:ILE:O	2.18	0.44
12:M8:302:CYC:C2D	3:S8:77:ARG:HH12	2.30	0.44
2:N8:24:LEU:HB3	12:O8:202:CYC:HAB2	2.00	0.44
12:F1:201:CYC:HBB2	4:M1:38:PRO:CD	2.46	0.44
4:M9:200:ILE:HD13	4:M9:200:ILE:HA	1.54	0.44
4:M9:252:LEU:CD1	3:Z9:77:ARG:NH1	2.81	0.44
2:O9:31:PHE:CG	3:P9:34:SER:CB	3.00	0.44
5:Z8:22:LEU:O	5:Z8:37:HIS:CE1	2.70	0.44
5:Z8:41:GLN:CG	12:Z8:301:CYC:NB	2.71	0.44
2:A9:31:PHE:CG	3:B9:34:SER:CB	3.00	0.44
3:F9:2:GLN:HA	3:F9:6:THR:HG21	2.00	0.44
2:I9:24:LEU:HB3	12:J9:201:CYC:CAB	2.47	0.44
2:U9:128:ILE:CG2	2:U9:132:LYS:HE3	2.47	0.44
12:V9:201:CYC:HC	12:V9:201:CYC:HMD3	1.83	0.44
11:a9:562:TYR:CD1	11:a9:562:TYR:O	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:a9:681:LEU:HD23	11:a9:684:ASN:HD21	1.83	0.44
11:aA:643:LEU:HD21	11:aA:689:VAL:HG22	1.91	0.44
3:J1:67:ILE:HD12	12:K1:201:CYC:O2A	2.17	0.44
2:K1:38:MET:HE2	2:K1:38:MET:HB3	1.81	0.44
12:U1:201:CYC:O2A	3:Z1:67:ILE:HD12	2.17	0.44
3:BA:14:LEU:HD13	3:XA:125:ARG:CD	2.47	0.44
3:BA:124:THR:HB	3:BA:171:ILE:O	2.18	0.44
3:DA:2:GLN:HA	3:DA:6:THR:HG21	2.00	0.44
3:FA:124:THR:HB	3:FA:171:ILE:O	2.18	0.44
3:FA:125:ARG:CD	3:VA:14:LEU:HD11	2.47	0.44
4:MA:93:LEU:HD12	4:MA:93:LEU:HA	1.66	0.44
4:MA:160:THR:HA	3:VA:107:ASP:O	2.18	0.44
4:MA:191:TYR:OH	2:UA:16:GLY:HA2	2.17	0.44
5:NA:1:MET:HB2	5:NA:3:VAL:HG23	1.91	0.44
2:OA:99:ALA:HB2	3:PA:9:ILE:HD13	2.00	0.44
3:PA:124:THR:HB	3:PA:171:ILE:O	2.18	0.44
2:QA:18:PHE:CE2	3:RA:48:ALA:HB2	2.52	0.44
2:G3:106:ASP:C	3:L3:77:ARG:NH2	2.76	0.44
3:H3:67:ILE:HD12	12:I3:201:CYC:O2A	2.17	0.44
2:G2:128:ILE:CG2	2:G2:132:LYS:HE3	2.47	0.44
3:B3:84:ARG:CZ	12:B3:202:CYC:O2A	2.66	0.44
3:F3:2:GLN:HA	3:F3:6:THR:HG21	2.00	0.44
12:F3:201:CYC:HC	12:F3:201:CYC:HMD3	1.82	0.44
3:Z3:67:ILE:HD12	12:U3:201:CYC:O2A	2.17	0.44
3:L3:1:MET:HE1	11:a9:708:HIS:CE1	2.50	0.44
4:M3:133:ARG:HB3	12:P3:201:CYC:HBA2	1.99	0.44
4:M3:153:LYS:O	4:M3:157:PHE:HB3	2.17	0.44
4:M3:200:ILE:HA	4:M3:200:ILE:HD13	1.54	0.44
3:T3:124:THR:HB	3:T3:171:ILE:O	2.18	0.44
12:V3:201:CYC:HC	12:V3:201:CYC:HMD3	1.82	0.44
3:B1:67:ILE:HD12	12:E1:201:CYC:O2A	2.17	0.44
2:V4:128:ILE:HG22	2:V4:132:LYS:HE3	1.98	0.44
3:H4:67:ILE:HD12	12:I4:201:CYC:O2A	2.17	0.44
12:H4:201:CYC:CBA	11:aA:261:SER:CB	2.95	0.44
12:L4:202:CYC:HC	12:L4:202:CYC:HMD3	1.83	0.44
4:M4:110:TYR:HE2	4:M4:124:ARG:NH1	2.13	0.44
8:M5:25:ARG:HE	8:A5:25:ARG:HH22	1.58	0.44
8:O5:67:SER:HB3	8:O5:68:PRO:HD2	2.00	0.44
8:A5:50:ILE:HA	8:A5:136:VAL:HG11	1.99	0.44
1:B5:107:ARG:NH1	9:z5:21:ARG:CB	2.81	0.44
1:H5:14:VAL:HG13	10:j5:556:GLY:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q5:16:ARG:CA	1:R5:90:ARG:CD	2.45	0.44
1:R5:86:ASP:OD1	1:R5:90:ARG:NE	2.51	0.44
1:T5:72:MET:HE2	1:T5:72:MET:HB3	1.87	0.44
12:T5:201:CYC:HMD1	12:T5:201:CYC:NC	2.10	0.44
1:X5:143:PRO:HB2	8:a5:38:ARG:HH11	1.76	0.44
1:b5:24:LEU:HB3	10:k5:54:ILE:CG2	2.47	0.44
1:b5:31:PHE:CZ	10:k5:50:GLY:HA2	2.53	0.44
3:L6:77:ARG:NH2	6:M6:70:GLU:HG2	2.23	0.44
12:N6:101:CYC:HC	12:N6:101:CYC:HMD3	1.82	0.44
8:A7:67:SER:HB3	8:A7:68:PRO:HD2	2.00	0.44
9:z5:8:THR:O	9:z5:51:VAL:HG13	2.18	0.44
10:j5:226:TYR:HD1	10:j5:226:TYR:HA	1.55	0.44
10:j5:277:ILE:HG12	10:j5:284:PRO:HB3	0.62	0.44
10:j5:367:ARG:NH1	10:j5:410:GLU:OE1	2.51	0.44
10:j5:924:ASP:CG	1:J7:26:LYS:HZ1	2.16	0.44
10:j5:1018:LEU:CA	10:j5:1021:ALA:HB3	2.40	0.44
10:k5:540:LEU:HB2	10:k5:567:LEU:HG	1.99	0.44
10:k5:549:LYS:HB2	10:k5:550:GLY:H	1.47	0.44
10:k5:1024:LYS:HD2	10:k5:1038:ARG:NH1	2.30	0.44
2:A6:24:LEU:HB3	12:B6:201:CYC:HAB2	2.00	0.44
3:F6:82:CYS:SG	12:F6:201:CYC:CHD	3.06	0.44
2:G6:128:ILE:CG2	2:G6:132:LYS:HE3	2.47	0.44
8:O7:15:ALA:HA	1:P7:90:ARG:CZ	2.47	0.44
8:O7:27:LYS:HA	8:O7:30:VAL:HG22	2.00	0.44
8:g7:37:LEU:HD23	8:g7:97:VAL:HG12	1.99	0.44
8:g7:94:TYR:O	8:g7:97:VAL:CG2	2.65	0.44
1:V7:71:MEN:O	1:V7:77:ARG:HD3	2.18	0.44
8:Y7:67:SER:HB3	8:Y7:68:PRO:HD2	1.99	0.44
1:b7:71:MEN:O	1:b7:77:ARG:HD3	2.18	0.44
8:c7:112:VAL:O	8:c7:115:MET:HB3	2.17	0.44
3:D8:124:THR:HB	3:D8:171:ILE:O	2.18	0.44
1:l7:71:MEN:O	1:l7:77:ARG:HD3	2.18	0.44
8:m7:27:LYS:HA	8:m7:30:VAL:HG22	1.99	0.44
1:r7:71:MEN:O	1:r7:77:ARG:HD3	2.18	0.44
8:u7:39:ILE:HD11	8:u7:145:ASP:CA	2.47	0.44
3:F8:124:THR:HB	3:F8:171:ILE:O	2.18	0.44
3:H8:67:ILE:HD12	12:I8:201:CYC:O2A	2.17	0.44
12:M8:301:CYC:CBC	3:Y8:127:VAL:HA	2.42	0.44
3:O8:104:VAL:HG22	5:Z8:61:LYS:CE	2.46	0.44
3:P9:67:ILE:HD12	12:S9:201:CYC:O2A	2.17	0.44
3:Y8:109:CYS:SG	3:Y8:110:LEU:N	2.87	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A9:99:ALA:HB2	3:B9:9:ILE:HD13	2.00	0.44
3:F9:125:ARG:CD	3:V9:14:LEU:HD11	2.47	0.44
2:I9:128:ILE:CG2	2:I9:132:LYS:HE3	2.47	0.44
3:J9:19:LEU:HB3	3:J9:24:LEU:HG	1.99	0.44
11:a9:562:TYR:CD1	11:a9:562:TYR:C	2.94	0.44
11:a9:615:ARG:H	11:a9:615:ARG:HG2	1.55	0.44
11:aA:708:HIS:CE1	11:aA:709:CYS:SG	3.10	0.44
11:aA:812:ASP:HA	11:aA:813:PRO:HD3	1.69	0.44
2:K1:115:GLU:OE1	2:K1:118:ARG:NH1	2.50	0.44
4:M1:137:ILE:HB	4:M1:141:GLU:HB3	1.99	0.44
3:T1:2:GLN:HA	3:T1:6:THR:HG21	2.00	0.44
2:U1:128:ILE:CG2	2:U1:132:LYS:HE3	2.47	0.44
2:W1:128:ILE:HG22	2:W1:132:LYS:HE3	1.98	0.44
2:A2:128:ILE:CG2	2:A2:132:LYS:HE3	2.47	0.44
12:GA:201:CYC:O2A	3:LA:67:ILE:HD12	2.18	0.44
3:HA:67:ILE:HD12	12:IA:201:CYC:O2A	2.17	0.44
2:IA:128:ILE:HG22	2:IA:132:LYS:HE3	1.98	0.44
3:JA:19:LEU:HB3	3:JA:24:LEU:HG	1.99	0.44
3:LA:124:THR:HB	3:LA:171:ILE:O	2.18	0.44
4:MA:95:ALA:HB2	5:NA:38:GLU:CD	2.43	0.44
5:NA:22:LEU:O	5:NA:37:HIS:CE1	2.70	0.44
2:QA:162:SER:HA	2:WA:118:ARG:HG2	1.99	0.44
3:P1:2:GLN:HA	3:P1:6:THR:HG21	2.00	0.44
3:P1:111:ASN:O	5:N1:6:GLY:N	2.50	0.44
2:A1:24:LEU:HB3	12:B1:201:CYC:HAB2	2.00	0.44
2:A1:128:ILE:CG2	2:A1:132:LYS:HE3	2.47	0.44
12:A1:201:CYC:O2A	3:D1:67:ILE:HD12	2.17	0.44
3:L2:74:TYR:O	3:L2:74:TYR:CD1	2.70	0.44
2:A3:99:ALA:HB2	3:B3:9:ILE:HD13	2.00	0.44
2:C3:99:ALA:HB2	3:D3:9:ILE:HD13	2.00	0.44
12:D3:202:CYC:HC	12:D3:202:CYC:HMD3	1.83	0.44
3:B4:124:THR:HB	3:B4:171:ILE:O	2.18	0.44
5:N3:38:GLU:HG2	5:N3:40:SER:H	1.81	0.44
2:O3:24:LEU:HB3	12:P3:202:CYC:HAB2	1.99	0.44
3:L4:2:GLN:HA	3:L4:6:THR:HG21	2.00	0.44
4:M4:205:ASP:OD1	4:M4:205:ASP:C	2.58	0.44
12:M4:301:CYC:HC	12:M4:301:CYC:HMD3	1.82	0.44
1:N5:87:TYR:HH	10:k5:483:PHE:HE2	1.46	0.44
3:Y4:124:THR:O	3:Y4:172:ALA:HA	2.17	0.44
8:A5:67:SER:HB3	8:A5:68:PRO:HD2	2.00	0.44
1:D5:74:THR:HG1	1:D5:77:ARG:CD	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I5:37:LEU:HD23	8:I5:97:VAL:HG12	2.00	0.44
1:d5:71:MEN:O	1:d5:77:ARG:HD3	2.18	0.44
12:T5:201:CYC:NB	10:j5:483:PHE:CE2	2.85	0.44
1:V5:123:ILE:HG22	10:j5:11:VAL:CG2	2.48	0.44
8:W5:158:GLY:O	8:W5:161:GLN:C	2.61	0.44
6:M6:278:ARG:HG2	1:d7:62:TYR:O	2.18	0.44
10:j5:199:THR:HG22	12:j5:1201:CYC:HBC1	1.98	0.44
10:j5:289:SER:HB2	10:j5:292:GLU:OE2	2.10	0.44
10:j5:364:PHE:CD1	10:j5:406:ILE:HD11	2.53	0.44
10:j5:756:SER:OG	9:w7:22:GLU:HA	2.18	0.44
10:j5:971:VAL:HG12	1:t7:76:ARG:HH22	1.83	0.44
10:j5:1041:ARG:O	10:j5:1041:ARG:HG3	2.18	0.44
10:j5:1143:LEU:HD23	10:j5:1143:LEU:HA	1.62	0.44
10:k5:886:PHE:N	10:k5:886:PHE:HD1	2.15	0.44
10:k5:947:MET:CE	10:k5:948:SER:HB3	2.47	0.44
10:k5:1025:LEU:N	10:k5:1030:ILE:HG22	2.33	0.44
10:k5:1085:GLY:HA2	1:l7:87:TYR:OH	2.16	0.44
3:B6:67:ILE:HD12	12:E6:201:CYC:O2A	2.17	0.44
2:E6:99:ALA:HB2	3:F6:9:ILE:HD13	2.00	0.44
12:G6:201:CYC:CMA	12:G6:201:CYC:NB	2.81	0.44
2:I6:38:MET:HE2	2:I6:38:MET:HB3	1.81	0.44
2:I6:128:ILE:CG2	2:I6:132:LYS:HE3	2.47	0.44
1:D7:71:MEN:O	1:D7:77:ARG:HD3	2.18	0.44
8:I7:95:GLY:CA	8:I7:104:ILE:HD11	2.47	0.44
12:J7:201:CYC:HMD1	12:J7:201:CYC:NC	2.10	0.44
8:K7:116:TYR:CB	8:K7:123:ILE:HG12	2.47	0.44
12:K7:201:CYC:HB	12:K7:201:CYC:CMA	2.21	0.44
1:h7:30:TYR:CD2	1:h7:30:TYR:O	2.70	0.44
8:i7:48:GLU:O	8:i7:52:LYS:HG3	2.18	0.44
8:i7:53:GLN:HB2	8:i7:136:VAL:CG2	2.47	0.44
1:T7:71:MEN:O	1:T7:77:ARG:HD3	2.18	0.44
8:U7:95:GLY:CA	8:U7:104:ILE:HD11	2.47	0.44
1:Z7:75:THR:HG22	8:a7:115:MET:CE	2.48	0.44
8:c7:112:VAL:O	8:c7:116:TYR:N	2.41	0.44
1:d7:71:MEN:O	1:d7:77:ARG:HD3	2.18	0.44
2:A8:99:ALA:HB2	3:B8:9:ILE:HD13	2.00	0.44
3:B8:2:GLN:HA	3:B8:6:THR:HG21	2.00	0.44
8:m7:95:GLY:CA	8:m7:104:ILE:HD11	2.47	0.44
8:o7:16:ARG:N	1:p7:94:TYR:OH	2.50	0.44
1:v7:71:MEN:O	1:v7:77:ARG:HD3	2.18	0.44
9:z7:38:PHE:O	9:z7:38:PHE:CG	2.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:y7:21:ARG:NE	9:y7:21:ARG:HA	2.30	0.44
2:T8:128:ILE:CG2	2:T8:132:LYS:HE3	2.47	0.44
3:U8:124:THR:HB	3:U8:171:ILE:O	2.18	0.44
2:X8:68:GLN:CB	3:T9:25:ASN:OD1	2.64	0.44
3:H8:84:ARG:HD3	11:a9:131:TYR:CG	2.13	0.44
3:L8:68:ARG:CG	11:a9:82:GLN:N	2.74	0.44
4:M8:52:LEU:HD22	4:M8:52:LEU:O	2.17	0.44
4:M8:87:ILE:HD12	3:Y8:77:ARG:HG2	1.87	0.44
4:M8:96:LYS:HB2	3:Q8:88:ILE:CG2	2.48	0.44
4:M8:140:ARG:O	4:M8:143:VAL:N	2.50	0.44
4:M8:205:ASP:OD1	4:M8:205:ASP:C	2.59	0.44
4:M8:231:THR:C	12:M8:301:CYC:CBB	2.90	0.44
2:N8:99:ALA:HB2	3:O8:9:ILE:HD13	2.00	0.44
3:O8:124:THR:HB	3:O8:171:ILE:O	2.18	0.44
3:Q8:110:LEU:HD13	3:Q8:170:SER:CB	2.46	0.44
3:L9:95:TYR:CD2	2:K9:9:ILE:HG23	2.53	0.44
4:M9:52:LEU:HD22	4:M9:52:LEU:O	2.17	0.44
4:M9:91:VAL:O	4:M9:218:VAL:HG23	2.17	0.44
4:M9:261:VAL:HG11	4:M9:266:LEU:HD13	1.99	0.44
12:B9:201:CYC:CMA	12:B9:201:CYC:HB	2.25	0.44
3:H9:84:ARG:NH1	11:a9:475:ASN:OD1	2.50	0.44
3:R9:124:THR:HB	3:R9:171:ILE:O	2.18	0.44
3:Z9:124:THR:HB	3:Z9:171:ILE:O	2.18	0.44
2:G1:106:ASP:C	3:L1:77:ARG:NH2	2.76	0.44
11:a9:92:LYS:HD3	11:a9:92:LYS:HA	1.54	0.44
11:a9:643:LEU:HD12	11:a9:766:ASN:O	2.18	0.44
11:aA:67:GLN:C	11:aA:68:THR:HG23	2.42	0.44
11:aA:562:TYR:CD1	11:aA:562:TYR:O	2.71	0.44
12:aA:901:CYC:HC	12:aA:901:CYC:HMD3	1.83	0.44
3:H1:2:GLN:HA	3:H1:6:THR:HG21	2.00	0.44
4:M1:19:MET:HE2	4:M1:59:ILE:CD1	2.46	0.44
3:X1:124:THR:HB	3:X1:171:ILE:O	2.18	0.44
12:X1:201:CYC:HC	12:X1:201:CYC:HMD3	1.82	0.44
3:F2:78:ARG:HG2	12:F2:201:CYC:CBD	2.47	0.44
3:F2:126:SER:C	12:F2:201:CYC:HMC3	2.43	0.44
3:F2:130:ALA:CB	12:F2:201:CYC:HBC2	2.47	0.44
12:EA:201:CYC:CMA	12:EA:201:CYC:NB	2.81	0.44
3:FA:149:THR:C	3:F9:150:ARG:HG3	2.41	0.44
3:LA:112:GLY:C	11:aA:532:ALA:CB	2.79	0.44
4:MA:132:LEU:CD1	4:MA:142:PHE:CB	2.95	0.44
4:MA:192:GLN:HE22	3:VA:87:GLU:HB3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:261:VAL:HG11	4:MA:266:LEU:HD13	1.99	0.44
5:NA:11:ARG:HD2	3:RA:108:ARG:CZ	2.47	0.44
2:SA:42:ARG:CD	2:X4:69:PRO:CD	2.92	0.44
12:ZA:202:CYC:HC	12:ZA:202:CYC:HMD3	1.82	0.44
12:R1:201:CYC:HC	12:R1:201:CYC:HMD3	1.83	0.44
3:B3:2:GLN:HA	3:B3:6:THR:HG21	2.00	0.44
3:B3:127:VAL:HG22	12:B3:202:CYC:HMC1	1.99	0.44
3:D4:124:THR:HB	3:D4:171:ILE:O	2.18	0.44
12:D4:201:CYC:HB	12:D4:201:CYC:HMA3	1.83	0.44
4:M3:70:SER:O	4:M3:70:SER:OG	2.35	0.44
5:N3:40:SER:O	5:N3:40:SER:OG	2.30	0.44
12:R3:202:CYC:CMD	12:R3:202:CYC:NC	2.75	0.44
2:S3:99:ALA:HB2	3:T3:9:ILE:HD13	2.00	0.44
3:V3:65:ASP:OD1	3:V3:65:ASP:N	2.47	0.44
3:V3:67:ILE:HD12	12:W3:201:CYC:O2A	2.17	0.44
3:B1:124:THR:HB	3:B1:171:ILE:O	2.18	0.44
3:S4:124:THR:HB	3:S4:171:ILE:O	2.18	0.44
3:U4:67:ILE:HD12	12:V4:201:CYC:O2A	2.17	0.44
3:H4:124:THR:HB	3:H4:171:ILE:O	2.18	0.44
4:M4:37:GLU:CD	11:aA:229:ASN:ND2	2.76	0.44
2:N4:24:LEU:HB3	12:O4:202:CYC:HAB2	2.00	0.44
3:Q4:2:GLN:HA	3:Q4:6:THR:HG21	2.00	0.44
3:Q4:84:ARG:O	3:Q4:87:GLU:HB3	2.18	0.44
8:M5:89:LEU:CB	1:N5:18:TYR:OH	2.65	0.44
8:O5:27:LYS:HA	8:O5:30:VAL:HG22	2.00	0.44
3:Y4:112:GLY:O	3:Y4:113:LEU:C	2.60	0.44
8:A5:53:GLN:OE1	8:A5:53:GLN:HA	2.17	0.44
1:B5:10:ASN:CG	10:k5:557:VAL:H	2.26	0.44
8:C5:37:LEU:HD23	8:C5:97:VAL:HG12	2.00	0.44
8:C5:94:TYR:O	8:C5:97:VAL:CG2	2.65	0.44
1:P5:71:MEN:O	1:P5:77:ARG:HD3	2.18	0.44
8:U5:29:PHE:CE2	1:V5:31:PHE:HE1	2.34	0.44
8:a5:95:GLY:CA	8:a5:104:ILE:HD11	2.47	0.44
3:J6:2:GLN:HA	3:J6:6:THR:HG21	2.00	0.44
12:J6:202:CYC:HC	12:J6:202:CYC:HMD3	1.83	0.44
7:N6:4:ASN:OD1	3:F6:108:ARG:HB3	2.17	0.44
7:N6:45:LEU:HD21	12:N6:101:CYC:O1D	2.18	0.44
10:j5:355:ARG:NH1	10:j5:358:GLU:OE1	2.48	0.44
10:j5:386:ILE:HG21	10:j5:395:SER:O	2.02	0.44
10:j5:643:VAL:O	10:j5:643:VAL:HG12	2.16	0.44
10:j5:1146:THR:HG21	1:v7:71:MEN:HE21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:328:ILE:HG21	10:k5:336:ARG:NH2	2.33	0.44
10:k5:364:PHE:CD1	10:k5:406:ILE:HD11	2.53	0.44
10:k5:739:VAL:O	10:k5:739:VAL:HG12	2.18	0.44
10:k5:823:TYR:O	1:B7:107:ARG:HD2	2.17	0.44
10:k5:955:LEU:HD13	8:o7:80:LEU:HD23	2.00	0.44
10:k5:1050:PHE:CD1	10:k5:1050:PHE:O	2.70	0.44
10:k5:1058:VAL:O	10:k5:1062:LEU:HG	2.18	0.44
3:D6:124:THR:HB	3:D6:171:ILE:O	2.18	0.44
3:F6:88:ILE:HG21	12:F6:201:CYC:CAB	2.47	0.44
3:F6:127:VAL:N	12:F6:201:CYC:CMC	2.71	0.44
3:H6:77:ARG:NH2	12:H6:201:CYC:O1A	2.51	0.44
3:H6:124:THR:HB	3:H6:171:ILE:O	2.18	0.44
12:H6:201:CYC:HC	12:H6:201:CYC:HMD3	1.83	0.44
8:C7:94:TYR:O	8:C7:97:VAL:CG2	2.65	0.44
8:G7:86:ASP:CB	11:a9:579:PHE:CZ	2.92	0.44
8:I7:21:GLY:C	8:I7:23:LEU:N	2.72	0.44
8:i7:67:SER:HB3	8:i7:68:PRO:HD2	2.00	0.44
1:j7:76:ARG:NH1	9:y7:3:ARG:HH22	2.16	0.44
8:U7:37:LEU:HD23	8:U7:97:VAL:HG12	2.00	0.44
8:m7:15:ALA:HA	1:n7:90:ARG:CZ	2.47	0.44
1:p7:68:PRO:O	11:a9:42:ARG:NE	2.50	0.44
8:q7:130:VAL:CG1	8:q7:157:VAL:HG23	2.48	0.44
12:W8:201:CYC:HC	12:W8:201:CYC:HMD3	1.82	0.44
4:M8:201:ASP:HB3	5:Z8:59:ARG:HD2	1.99	0.44
4:M8:267:LEU:HA	4:M8:267:LEU:HD23	1.65	0.44
3:O8:119:ALA:CB	5:Z8:72:GLU:N	2.75	0.44
3:Q8:78:ARG:CD	12:Z8:301:CYC:HMD2	2.46	0.44
3:L9:67:ILE:HD12	12:G9:201:CYC:O2A	2.18	0.44
4:M9:76:ALA:O	3:D9:115:GLU:OE1	2.34	0.44
4:M9:181:GLN:CD	3:V9:120:LEU:CD2	2.78	0.44
5:N9:11:ARG:HD2	3:R9:108:ARG:CZ	2.47	0.44
2:O9:24:LEU:HB3	12:P9:202:CYC:HAB2	2.00	0.44
5:Z8:26:LEU:HD23	12:Z8:301:CYC:OB	2.17	0.44
3:D9:2:GLN:HA	3:D9:6:THR:HG21	2.00	0.44
2:I9:20:ASN:O	2:I9:24:LEU:HG	2.18	0.44
11:a9:371:VAL:HG11	11:a9:507:PHE:CB	2.47	0.44
11:aA:89:ALA:CB	11:aA:92:LYS:NZ	2.81	0.44
11:aA:112:GLU:O	11:aA:114:ASP:N	2.51	0.44
11:aA:304:ALA:C	11:aA:306:GLY:H	2.26	0.44
11:aA:643:LEU:HD12	11:aA:766:ASN:O	2.18	0.44
11:aA:816:LEU:HD23	11:aA:816:LEU:C	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:aA:902:CYC:HC	12:aA:902:CYC:HMD3	1.83	0.44
3:V1:2:GLN:HA	3:V1:6:THR:HG21	2.00	0.44
3:B2:124:THR:HB	3:B2:171:ILE:O	2.18	0.44
3:JA:124:THR:HB	3:JA:171:ILE:O	2.18	0.44
3:ZA:124:THR:HB	3:ZA:171:ILE:O	2.18	0.44
12:O1:201:CYC:O2A	3:R1:67:ILE:HD12	2.17	0.44
7:N2:25:ASP:OD1	7:N2:25:ASP:N	2.50	0.44
12:F3:201:CYC:CMA	12:F3:201:CYC:HB	2.25	0.44
3:Z3:2:GLN:HA	3:Z3:6:THR:HG21	2.00	0.44
2:A4:99:ALA:HB2	3:B4:9:ILE:HD13	2.00	0.44
3:B4:2:GLN:HA	3:B4:6:THR:HG21	2.00	0.44
4:M3:52:LEU:HD22	4:M3:52:LEU:O	2.17	0.44
3:P3:124:THR:HB	3:P3:171:ILE:O	2.18	0.44
3:U4:2:GLN:HA	3:U4:6:THR:HG21	2.00	0.44
3:J4:124:THR:HB	3:J4:171:ILE:O	2.18	0.44
4:M4:27:HIS:O	11:aA:227:GLY:HA2	2.14	0.44
3:Q4:79:MET:O	3:Q4:83:LEU:HG	2.17	0.44
3:Q4:112:GLY:O	3:Q4:116:THR:HG23	2.18	0.44
8:K5:67:SER:HB3	8:K5:68:PRO:HD2	2.00	0.44
8:O5:95:GLY:CA	8:O5:104:ILE:HD11	2.47	0.44
1:B5:10:ASN:HD21	10:k5:557:VAL:HB	1.80	0.44
8:e5:16:ARG:HG3	8:e5:16:ARG:HH11	1.83	0.44
8:Q5:67:SER:HB3	8:Q5:68:PRO:HD2	2.00	0.44
8:S5:59:PHE:CB	8:E7:68:PRO:HB2	2.46	0.44
1:T5:71:MEN:O	1:T5:77:ARG:HD3	2.18	0.44
8:U5:37:LEU:HD23	8:U5:97:VAL:HG12	2.00	0.44
8:a5:94:TYR:O	8:a5:97:VAL:CG2	2.65	0.44
3:L6:67:ILE:HD12	12:G6:201:CYC:O2A	2.17	0.44
12:L6:201:CYC:HC	12:L6:201:CYC:HMD3	1.83	0.44
7:N6:25:ASP:OD1	7:N6:25:ASP:N	2.50	0.44
8:A7:90:ARG:HB2	1:B7:18:TYR:CE1	2.52	0.44
9:z5:7:VAL:HG22	9:z5:30:LYS:O	2.18	0.44
9:z5:11:ILE:HD11	9:z5:28:PHE:CE2	2.52	0.44
9:i5:27:PHE:HE2	9:i5:52:LEU:HD11	1.81	0.44
9:i5:44:ILE:HD13	9:i5:44:ILE:HG21	1.77	0.44
10:j5:21:MET:HE3	10:j5:25:ILE:HD11	2.00	0.44
10:j5:283:ARG:CD	10:j5:283:ARG:H	2.30	0.44
10:j5:764:PHE:O	10:j5:764:PHE:CG	2.70	0.44
10:j5:765:ASP:O	10:j5:769:THR:HG22	2.18	0.44
10:j5:820:HIS:NE2	10:j5:859:ILE:HD11	2.12	0.44
10:j5:844:GLN:O	10:j5:844:GLN:CG	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:947:MET:CE	10:j5:948:SER:HB3	2.48	0.44
10:k5:278:TYR:CE2	10:k5:287:ASN:OD1	2.71	0.44
10:k5:1143:LEU:HA	10:k5:1143:LEU:HD23	1.62	0.44
12:H6:202:CYC:HB	12:H6:202:CYC:HMA3	1.83	0.44
8:S7:90:ARG:HB2	1:T7:18:TYR:CE1	2.53	0.44
8:G7:90:ARG:HB2	1:H7:18:TYR:CE1	2.53	0.44
8:G7:130:VAL:CG1	8:G7:157:VAL:HG23	2.48	0.44
8:M7:130:VAL:CG1	8:M7:157:VAL:HG23	2.48	0.44
8:g7:27:LYS:HA	8:g7:30:VAL:HG22	2.00	0.44
8:a7:27:LYS:HA	8:a7:30:VAL:HG22	2.00	0.44
1:b7:72:MET:HE2	1:b7:72:MET:HB3	1.87	0.44
8:c7:101:VAL:HG12	8:c7:155:TYR:CE2	2.52	0.44
8:e7:23:LEU:HD22	1:f7:38:VAL:HG13	2.00	0.44
2:C8:99:ALA:HB2	3:D8:9:ILE:HD13	2.00	0.44
12:D8:201:CYC:HB	12:D8:201:CYC:HMA3	1.83	0.44
8:m7:18:LEU:HD23	8:m7:22:GLU:HB2	2.00	0.44
8:o7:3:VAL:O	8:o7:7:ALA:N	2.51	0.44
8:o7:4:LEU:HD21	8:o7:26:ILE:HD13	1.93	0.44
8:o7:67:SER:HB3	8:o7:68:PRO:HD2	2.00	0.44
1:p7:72:MET:HE2	1:p7:72:MET:HB3	1.87	0.44
8:s7:67:SER:HB3	8:s7:68:PRO:HD2	2.00	0.44
9:x7:40:GLU:OE2	9:x7:43:ARG:CD	2.65	0.44
12:W8:202:CYC:CMD	12:W8:202:CYC:NC	2.75	0.44
4:M9:222:ARG:NH1	4:M9:222:ARG:CG	2.72	0.44
12:D9:201:CYC:HB	12:D9:201:CYC:CMA	2.26	0.44
3:J9:67:ILE:HD12	12:K9:201:CYC:O2A	2.17	0.44
3:V9:67:ILE:HD12	12:W9:201:CYC:O2A	2.17	0.44
12:Y9:201:CYC:CMA	12:Y9:201:CYC:NB	2.81	0.44
11:a9:373:PRO:HG2	11:a9:373:PRO:O	2.17	0.44
11:a9:426:ARG:NH1	11:a9:430:ARG:HH21	2.16	0.44
11:a9:485:GLU:HA	11:a9:485:GLU:OE2	2.17	0.44
11:a9:490:ILE:N	11:a9:490:ILE:CD1	2.80	0.44
11:a9:495:TYR:CD1	11:a9:495:TYR:O	2.70	0.44
11:a9:576:LEU:HD23	11:a9:576:LEU:HA	1.65	0.44
11:aA:371:VAL:CG2	11:aA:507:PHE:HD2	2.31	0.44
11:aA:426:ARG:NH2	11:aA:496:ARG:NE	2.66	0.44
11:aA:670:LEU:HD12	2:K1:111:ALA:HB1	1.74	0.44
12:K1:201:CYC:CMA	12:K1:201:CYC:NB	2.81	0.44
3:L1:124:THR:HB	3:L1:171:ILE:O	2.18	0.44
4:M1:51:ARG:NH1	4:M1:51:ARG:CG	2.77	0.44
12:X1:202:CYC:HB	12:X1:202:CYC:HMA3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:19:LEU:O	3:B2:45:THR:CG2	2.64	0.44
2:E2:128:ILE:CG2	2:E2:132:LYS:HE3	2.47	0.44
3:F2:124:THR:HB	3:F2:171:ILE:O	2.18	0.44
12:BA:201:CYC:CMA	12:BA:201:CYC:HB	2.25	0.43
12:JA:202:CYC:HC	12:JA:202:CYC:HMD3	1.82	0.43
5:NA:13:SER:HB3	5:NA:14:LYS:H	1.55	0.43
2:QA:119:THR:CG2	3:TA:83:LEU:CD1	2.90	0.43
12:XA:202:CYC:HB	12:XA:202:CYC:HMA3	1.83	0.43
2:G2:99:ALA:HB2	3:H2:9:ILE:HD13	2.00	0.43
3:H2:77:ARG:NH2	12:H2:201:CYC:O1A	2.51	0.43
12:H2:202:CYC:CMD	12:H2:202:CYC:NC	2.75	0.43
3:L2:2:GLN:HA	3:L2:6:THR:HG21	2.00	0.43
2:A3:24:LEU:HB3	12:B3:201:CYC:HAB2	2.00	0.43
12:A4:201:CYC:O2A	3:D4:67:ILE:HD12	2.17	0.43
3:B4:107:ASP:O	4:M4:60:LYS:O	2.36	0.43
12:B4:202:CYC:C1D	4:M4:53:LEU:CD2	2.96	0.43
12:O3:201:CYC:O2A	3:R3:67:ILE:HD12	2.17	0.43
12:Y3:201:CYC:CMA	12:Y3:201:CYC:NB	2.81	0.43
2:G4:99:ALA:HB2	3:H4:9:ILE:HD13	2.00	0.43
2:I4:14:SER:CA	11:aA:170:PHE:CZ	2.82	0.43
4:M4:160:THR:HG21	4:M4:257:GLN:CB	2.30	0.43
4:M4:223:GLY:O	12:M4:301:CYC:CGA	2.66	0.43
4:M4:241:LEU:HA	4:M4:241:LEU:HD23	1.63	0.43
3:O4:124:THR:HB	3:O4:171:ILE:O	2.18	0.43
8:O5:130:VAL:CG1	8:O5:157:VAL:HG23	2.48	0.43
3:Y4:124:THR:HB	3:Y4:171:ILE:O	2.18	0.43
8:A5:112:VAL:CG2	1:F5:75:THR:HG21	2.38	0.43
8:G5:17:TYR:CD2	1:H5:45:SER:HB3	2.52	0.43
8:G5:53:GLN:OE1	8:G5:53:GLN:HA	2.17	0.43
1:H5:71:MEN:O	1:H5:77:ARG:HD3	2.18	0.43
8:c5:64:ASP:HA	8:c5:67:SER:CB	2.49	0.43
8:c5:67:SER:HB3	8:c5:68:PRO:HD2	2.00	0.43
8:c5:90:ARG:HB2	1:d5:18:TYR:CE1	2.53	0.43
8:c5:130:VAL:CG1	8:c5:157:VAL:HG23	2.48	0.43
8:U5:113:LYS:HD2	10:j5:582:GLN:HB2	1.99	0.43
8:a5:27:LYS:HA	8:a5:30:VAL:HG22	1.99	0.43
3:J6:124:THR:HB	3:J6:171:ILE:O	2.18	0.43
6:M6:259:THR:C	6:M6:261:LYS:H	2.25	0.43
10:j5:166:TYR:HB3	10:j5:179:LEU:CD2	2.47	0.43
10:j5:631:HIS:HA	10:j5:664:MET:CE	2.48	0.43
10:j5:776:PHE:O	10:j5:777:ASP:CB	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1147:TYR:CD1	10:j5:1147:TYR:O	2.69	0.43
10:k5:175:ASP:OD1	10:k5:175:ASP:N	2.44	0.43
10:k5:764:PHE:O	10:k5:764:PHE:CG	2.70	0.43
10:k5:888:THR:CG2	1:D7:83:ARG:NH1	2.74	0.43
10:k5:986:PRO:HD3	9:x7:24:GLN:HE22	1.83	0.43
10:k5:1118:THR:CG2	12:k5:1204:CYC:HBA1	2.41	0.43
3:B6:2:GLN:HA	3:B6:6:THR:HG21	2.00	0.43
1:P7:71:MEN:O	1:P7:77:ARG:HD3	2.18	0.43
1:R7:71:MEN:O	1:R7:77:ARG:HD3	2.18	0.43
8:C7:21:GLY:C	8:C7:23:LEU:H	2.25	0.43
8:C7:37:LEU:HD23	8:C7:97:VAL:HG12	2.00	0.43
8:C7:67:SER:HB3	8:C7:68:PRO:HD2	2.00	0.43
1:L7:71:MEN:O	1:L7:77:ARG:HD3	2.18	0.43
8:i7:25:ARG:HG2	8:s7:3:VAL:HG13	1.99	0.43
8:i7:152:TYR:CZ	8:s7:20:PRO:HB3	2.53	0.43
1:j7:71:MEN:O	1:j7:77:ARG:HD3	2.18	0.43
8:k7:79:ALA:CA	11:a9:53:VAL:HG21	2.47	0.43
8:k7:130:VAL:CG1	8:k7:157:VAL:HG23	2.48	0.43
1:T7:110:ASN:ND2	9:w7:57:PHE:CA	2.81	0.43
8:U7:27:LYS:HA	8:U7:30:VAL:HG22	2.00	0.43
8:W7:67:SER:HB3	8:W7:68:PRO:HD2	2.00	0.43
3:B8:67:ILE:HD12	12:E8:201:CYC:O2A	2.17	0.43
3:B8:116:THR:HG23	4:M8:52:LEU:O	2.17	0.43
8:o7:103:PRO:CG	1:p7:9:ILE:CD1	2.66	0.43
8:s7:11:ALA:CB	8:s7:18:LEU:CD1	2.96	0.43
8:u7:16:ARG:N	1:v7:94:TYR:OH	2.51	0.43
8:u7:34:GLU:HG3	1:v7:28:LYS:CD	2.46	0.43
2:T8:99:ALA:HB2	3:U8:9:ILE:HD13	2.00	0.43
2:V8:99:ALA:HB2	3:W8:9:ILE:HD13	2.00	0.43
2:X8:107:ASP:OD2	4:M8:273:ILE:CG2	2.57	0.43
3:J8:67:ILE:HD12	12:K8:201:CYC:O2A	2.17	0.43
3:L8:2:GLN:HA	3:L8:6:THR:HG21	2.00	0.43
12:M8:301:CYC:HC	12:M8:301:CYC:HMD3	1.82	0.43
3:O8:105:LEU:O	3:O8:108:ARG:O	2.36	0.43
3:Q8:2:GLN:HA	3:Q8:6:THR:HG21	2.00	0.43
4:M9:95:ALA:HB2	5:N9:38:GLU:CD	2.43	0.43
4:M9:158:PHE:CZ	2:U9:10:ALA:CA	3.01	0.43
4:M9:164:ARG:O	4:M9:164:ARG:HG3	2.15	0.43
4:M9:235:PHE:CD1	4:M9:235:PHE:O	2.70	0.43
12:P9:201:CYC:HC	12:P9:201:CYC:HMD3	1.82	0.43
5:Z8:27:ALA:HB3	12:Z8:301:CYC:HAB1	1.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B9:107:ASP:HB3	11:a9:382:ASN:CG	2.40	0.43
2:G9:99:ALA:HB2	3:H9:9:ILE:HD13	2.00	0.43
3:H9:2:GLN:HA	3:H9:6:THR:HG21	2.00	0.43
12:S9:201:CYC:CMA	12:S9:201:CYC:NB	2.81	0.43
3:T9:124:THR:HB	3:T9:171:ILE:O	2.18	0.43
2:U9:99:ALA:HB2	3:V9:9:ILE:HD13	2.00	0.43
3:X9:124:THR:HB	3:X9:171:ILE:O	2.18	0.43
2:Y9:99:ALA:HB2	3:Z9:9:ILE:HD13	2.00	0.43
11:a9:30:MET:HE3	11:a9:35:ARG:CD	2.44	0.43
11:a9:363:GLN:HE21	11:a9:363:GLN:H	1.66	0.43
11:a9:371:VAL:CG2	11:a9:507:PHE:HD2	2.31	0.43
11:aA:801:ASN:ND2	11:aA:801:ASN:C	2.71	0.43
11:aA:817:LEU:HA	11:aA:817:LEU:HD23	1.50	0.43
2:K1:99:ALA:HB2	3:L1:9:ILE:HD13	2.00	0.43
4:M1:93:LEU:HD12	4:M1:93:LEU:HA	1.66	0.43
4:M1:176:ARG:CG	4:M1:176:ARG:NH1	2.70	0.43
3:T1:124:THR:HB	3:T1:171:ILE:O	2.18	0.43
12:F2:201:CYC:HMD3	12:F2:201:CYC:HC	1.83	0.43
12:F2:202:CYC:HB	12:F2:202:CYC:HMA3	1.83	0.43
1:Z:71:MEN:O	1:Z:77:ARG:HD3	2.18	0.43
12:BA:201:CYC:HC	12:BA:201:CYC:HMD3	1.83	0.43
12:CA:201:CYC:CMA	12:CA:201:CYC:NB	2.81	0.43
12:CA:201:CYC:O2A	3:FA:67:ILE:HD12	2.17	0.43
2:EA:99:ALA:HB2	3:FA:9:ILE:HD13	2.00	0.43
2:IA:99:ALA:HB2	3:JA:9:ILE:HD13	2.00	0.43
12:KA:201:CYC:CMA	12:KA:201:CYC:NB	2.81	0.43
12:LA:202:CYC:HC	12:LA:202:CYC:HMD3	1.83	0.43
5:NA:3:VAL:CG1	3:RA:115:GLU:HB2	2.33	0.43
5:NA:37:HIS:O	5:NA:37:HIS:CD2	2.70	0.43
2:QA:68:GLN:HA	2:U1:46:SER:HB3	0.69	0.43
12:ZA:201:CYC:HB	12:ZA:201:CYC:HMA3	1.83	0.43
2:O1:24:LEU:HB3	12:P1:202:CYC:HAB2	2.00	0.43
3:P1:67:ILE:HD12	12:S1:201:CYC:O2A	2.17	0.43
2:I2:38:MET:HE2	2:I2:38:MET:HB3	1.81	0.43
12:K2:201:CYC:CMA	12:K2:201:CYC:NB	2.81	0.43
7:N2:11:TRP:HE1	2:E2:107:ASP:CA	2.31	0.43
2:C3:140:SER:C	3:D8:150:ARG:NH1	2.77	0.43
12:C3:201:CYC:CMA	12:C3:201:CYC:NB	2.82	0.43
3:D3:2:GLN:HA	3:D3:6:THR:HG21	2.00	0.43
3:B4:86:MET:CG	12:B4:202:CYC:HBC1	2.48	0.43
12:L3:202:CYC:NB	11:a9:738:LEU:HD22	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M3:120:LEU:HD11	3:X3:84:ARG:HH12	1.83	0.43
4:M3:235:PHE:CD1	4:M3:235:PHE:O	2.70	0.43
5:N3:74:GLU:HA	3:P3:111:ASN:ND2	2.16	0.43
12:Q3:201:CYC:O2A	3:T3:67:ILE:HD12	2.17	0.43
12:W3:201:CYC:CMA	12:W3:201:CYC:NB	2.81	0.43
4:M4:27:HIS:HD1	4:M4:35:THR:C	2.25	0.43
4:M4:74:LEU:HA	4:M4:74:LEU:HD23	1.68	0.43
8:K5:107:ILE:HG23	1:J5:74:THR:HG22	2.00	0.43
8:M5:130:VAL:CG1	8:M5:157:VAL:HG23	2.48	0.43
5:Z4:29:HIS:HB3	5:Z4:31:TRP:CD1	2.45	0.43
5:Z4:38:GLU:HG2	12:Z4:301:CYC:HMB2	1.97	0.43
8:G5:119:LEU:HD11	12:G5:201:CYC:HAA2	2.00	0.43
8:I5:16:ARG:HH11	8:I5:16:ARG:CG	2.29	0.43
8:I5:26:ILE:HG21	8:I5:26:ILE:HD13	1.61	0.43
8:e5:5:THR:C	8:e5:7:ALA:H	2.25	0.43
8:e5:37:LEU:HD23	8:e5:97:VAL:HG12	2.00	0.43
8:e5:67:SER:HB3	8:e5:68:PRO:HD2	2.00	0.43
8:Q5:8:ILE:O	8:Q5:11:ALA:N	2.51	0.43
8:S5:130:VAL:CG1	8:S5:157:VAL:HG23	2.48	0.43
1:V5:71:MEN:O	1:V5:77:ARG:HD3	2.18	0.43
1:V5:114:GLU:HG3	10:j5:496:GLU:OE2	2.16	0.43
8:Y5:130:VAL:CG1	8:Y5:157:VAL:HG23	2.48	0.43
3:J6:9:ILE:HD13	2:I6:99:ALA:HB2	2.00	0.43
3:L6:124:THR:HB	3:L6:171:ILE:O	2.18	0.43
6:M6:127:SER:HB3	3:F6:84:ARG:NE	2.19	0.43
6:M6:276:PRO:C	1:d7:62:TYR:O	2.61	0.43
7:N6:18:ILE:HD11	7:N6:48:LEU:HD11	1.98	0.43
10:j5:386:ILE:HG21	10:j5:395:SER:C	2.14	0.43
10:j5:1118:THR:HG21	1:t7:83:ARG:HH12	1.82	0.43
10:k5:528:GLU:O	10:k5:528:GLU:CG	2.66	0.43
10:k5:557:VAL:O	10:k5:559:THR:N	2.51	0.43
10:k5:750:ARG:HH11	10:k5:750:ARG:CG	2.25	0.43
10:k5:784:ILE:HG21	10:k5:784:ILE:HD13	1.72	0.43
10:k5:947:MET:HE3	10:k5:947:MET:HB2	1.42	0.43
10:k5:965:GLN:HB3	10:k5:969:VAL:CG1	2.43	0.43
3:B6:124:THR:HB	3:B6:171:ILE:O	2.18	0.43
3:F6:2:GLN:HA	3:F6:6:THR:HG21	2.00	0.43
8:O7:130:VAL:CG1	8:O7:157:VAL:HG23	2.49	0.43
8:Q7:116:TYR:CB	8:Q7:123:ILE:HG12	2.48	0.43
8:S7:64:ASP:HA	8:S7:67:SER:CB	2.49	0.43
8:C7:27:LYS:HA	8:C7:30:VAL:HG22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G7:67:SER:HB3	8:G7:68:PRO:HD2	2.00	0.43
8:I7:11:ALA:CB	8:I7:18:LEU:CD1	2.96	0.43
1:N7:71:MEN:O	1:N7:77:ARG:HD3	2.18	0.43
8:g7:48:GLU:O	11:aA:318:TRP:HZ3	2.00	0.43
8:i7:101:VAL:HG12	8:i7:155:TYR:CE2	2.53	0.43
8:i7:138:THR:O	8:i7:138:THR:HG23	2.18	0.43
1:T7:110:ASN:ND2	9:w7:57:PHE:O	2.51	0.43
8:U7:67:SER:HB3	8:U7:68:PRO:HD2	2.00	0.43
8:a7:11:ALA:C	8:a7:13:ALA:N	2.75	0.43
8:a7:90:ARG:HD2	1:b7:18:TYR:N	2.31	0.43
1:f7:71:MEN:O	1:f7:77:ARG:HD3	2.18	0.43
8:s7:37:LEU:HD23	8:s7:97:VAL:HG12	2.00	0.43
8:u7:27:LYS:HE3	1:v7:35:ALA:C	2.43	0.43
8:u7:30:VAL:HG12	1:v7:31:PHE:HA	1.99	0.43
9:z7:3:ARG:CZ	9:z7:67:VAL:HG13	2.48	0.43
12:T8:201:CYC:O2A	3:Y8:67:ILE:HD12	2.17	0.43
3:J8:108:ARG:HH22	11:a9:171:ARG:CG	2.30	0.43
4:M8:137:ILE:HD11	4:M8:142:PHE:CD1	2.53	0.43
4:M8:201:ASP:H	5:Z8:52:ARG:HH22	1.60	0.43
4:M8:201:ASP:CG	5:Z8:56:GLU:CD	2.86	0.43
12:M8:302:CYC:H2C	3:S8:72:ASN:O	2.18	0.43
3:F1:2:GLN:HA	3:F1:6:THR:HG21	2.00	0.43
3:L9:2:GLN:HA	3:L9:6:THR:HG21	2.00	0.43
4:M9:118:TYR:CD1	3:Z9:84:ARG:CZ	3.01	0.43
4:M9:137:ILE:HB	4:M9:141:GLU:HB3	1.99	0.43
2:O9:99:ALA:HB2	3:P9:9:ILE:HD13	2.00	0.43
3:B9:2:GLN:HA	3:B9:6:THR:HG21	2.00	0.43
3:F9:37:ARG:CA	3:F9:156:LEU:HD21	2.48	0.43
3:J9:65:ASP:HB2	11:a9:354:VAL:HG22	1.80	0.43
12:X9:202:CYC:CMD	12:X9:202:CYC:NC	2.75	0.43
11:a9:239:TYR:CE1	12:a9:901:CYC:CBA	2.74	0.43
11:a9:376:ALA:HB3	11:a9:503:THR:HG22	2.01	0.43
11:a9:710:THR:CG2	11:a9:807:GLN:OE1	2.64	0.43
11:aA:781:ALA:O	11:aA:782:ALA:C	2.60	0.43
4:M1:235:PHE:O	4:M1:235:PHE:CD1	2.70	0.43
5:N1:22:LEU:O	5:N1:37:HIS:CE1	2.70	0.43
2:U1:42:ARG:O	2:U1:46:SER:OG	2.36	0.43
12:AA:201:CYC:CMA	12:AA:201:CYC:NB	2.82	0.43
3:HA:2:GLN:HA	3:HA:6:THR:HG21	2.00	0.43
2:KA:9:ILE:HG23	3:LA:95:TYR:CD2	2.53	0.43
2:KA:24:LEU:CD2	3:LA:38:LEU:HD22	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:LA:86:MET:O	3:LA:134:MET:SD	2.77	0.43
3:LA:111:ASN:C	11:aA:532:ALA:CB	2.86	0.43
4:MA:137:ILE:HB	4:MA:141:GLU:HB3	1.99	0.43
12:OA:201:CYC:O2A	3:RA:67:ILE:HD12	2.17	0.43
3:TA:2:GLN:HA	3:TA:6:THR:HG21	2.00	0.43
12:XA:201:CYC:HC	12:XA:201:CYC:HMD3	1.83	0.43
3:H2:2:GLN:HA	3:H2:6:THR:HG21	2.01	0.43
3:H2:124:THR:HB	3:H2:171:ILE:O	2.18	0.43
12:J2:201:CYC:HB	12:J2:201:CYC:HMA3	1.84	0.43
6:M2:66:GLY:HA2	1:h7:124:ALA:C	2.43	0.43
3:B3:127:VAL:CG2	12:B3:202:CYC:HMC3	2.48	0.43
3:B4:82:CYS:CB	12:B4:202:CYC:C2C	2.95	0.43
12:L3:202:CYC:HC	12:L3:202:CYC:HMD3	1.83	0.43
4:M3:261:VAL:HG11	4:M3:266:LEU:HD13	1.99	0.43
3:P3:2:GLN:HA	3:P3:6:THR:HG21	2.00	0.43
3:R3:124:THR:HB	3:R3:171:ILE:O	2.18	0.43
2:U3:38:MET:HE2	2:U3:38:MET:HB3	1.81	0.43
12:S4:201:CYC:HB	12:S4:201:CYC:HMA3	1.83	0.43
2:V4:99:ALA:HB2	3:W4:9:ILE:HD13	2.00	0.43
3:W4:124:THR:HB	3:W4:171:ILE:O	2.18	0.43
12:J4:201:CYC:HC	12:J4:201:CYC:HMD3	1.83	0.43
4:M4:52:LEU:HD22	4:M4:52:LEU:O	2.17	0.43
4:M4:99:VAL:CB	3:Q4:1:MET:HE1	2.47	0.43
4:M4:137:ILE:HG22	5:Z4:44:TYR:CE1	2.54	0.43
2:N4:99:ALA:HB2	3:O4:9:ILE:HD13	2.00	0.43
3:Q4:113:LEU:HD22	3:Q4:113:LEU:HA	1.85	0.43
5:Z4:39:PRO:HD3	12:Z4:301:CYC:HD	1.83	0.43
1:D5:74:THR:HG22	8:E5:107:ILE:HG23	2.00	0.43
1:D5:118:SER:O	9:z5:56:LEU:HD21	2.19	0.43
8:G5:53:GLN:HB3	8:G5:136:VAL:HG21	2.00	0.43
8:G5:130:VAL:CG1	8:G5:157:VAL:HG23	2.48	0.43
8:I5:27:LYS:C	8:I5:29:PHE:H	2.19	0.43
8:e5:130:VAL:CG1	8:e5:157:VAL:HG23	2.48	0.43
1:P5:114:GLU:CB	10:k5:496:GLU:CD	2.85	0.43
1:X5:71:MEN:O	1:X5:77:ARG:HD3	2.18	0.43
8:Y5:9:VAL:CG1	10:k5:344:ARG:NH1	2.65	0.43
8:a5:37:LEU:HD23	8:a5:97:VAL:HG12	2.00	0.43
12:L6:202:CYC:HB	12:L6:202:CYC:HMA3	1.84	0.43
7:N6:2:TYR:CD1	7:N6:2:TYR:N	2.73	0.43
10:j5:187:ARG:NH1	10:j5:237:ASP:OD2	2.52	0.43
10:j5:278:TYR:CE2	10:j5:287:ASN:OD1	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:544:VAL:HG13	10:j5:564:VAL:CG2	2.48	0.43
10:j5:724:GLU:O	10:j5:724:GLU:CG	2.65	0.43
10:j5:729:ILE:HD13	10:j5:729:ILE:HG21	1.72	0.43
10:j5:1058:VAL:O	10:j5:1062:LEU:HG	2.18	0.43
10:k5:141:GLU:O	10:k5:142:PRO:C	2.59	0.43
10:k5:297:VAL:O	10:k5:297:VAL:HG13	2.18	0.43
10:k5:352:ILE:HG22	10:k5:354:SER:H	1.83	0.43
10:k5:1152:TYR:CD1	10:k5:1152:TYR:N	2.72	0.43
3:D1:124:THR:HB	3:D1:171:ILE:O	2.18	0.43
8:Q7:8:ILE:O	8:Q7:11:ALA:N	2.51	0.43
8:K7:67:SER:HB3	8:K7:68:PRO:HD2	2.00	0.43
8:M7:67:SER:HB3	8:M7:68:PRO:HD2	2.00	0.43
8:g7:90:ARG:HH12	1:h7:16:GLY:HA2	1.79	0.43
8:i7:112:VAL:O	8:i7:115:MET:HB3	2.17	0.43
1:T7:1:MET:O	9:w7:66:GLY:CA	2.66	0.43
8:a7:25:ARG:CZ	8:o7:25:ARG:NH2	2.66	0.43
12:E1:201:CYC:CMA	12:E1:201:CYC:NB	2.81	0.43
12:C8:201:CYC:O2A	3:F8:67:ILE:HD12	2.17	0.43
2:E8:99:ALA:HB2	3:F8:9:ILE:HD13	2.00	0.43
1:n7:71:MEN:O	1:n7:77:ARG:HD3	2.18	0.43
1:p7:71:MEN:O	1:p7:77:ARG:HD3	2.18	0.43
8:u7:116:TYR:CB	8:u7:123:ILE:HG12	2.47	0.43
9:y7:19:THR:O	9:y7:19:THR:OG1	2.16	0.43
2:X8:99:ALA:HB2	3:Y8:9:ILE:HD13	2.00	0.43
3:L8:78:ARG:CD	12:a9:901:CYC:O2D	2.54	0.43
3:L8:124:THR:HB	3:L8:171:ILE:O	2.18	0.43
4:M8:91:VAL:O	4:M8:218:VAL:HG23	2.17	0.43
4:M8:96:LYS:HD3	3:Q8:113:LEU:HD22	1.98	0.43
4:M8:176:ARG:HH11	4:M8:176:ARG:HG3	1.78	0.43
3:F1:124:THR:HB	3:F1:171:ILE:O	2.18	0.43
12:F1:201:CYC:HC	12:F1:201:CYC:HMD3	1.82	0.43
4:M9:241:LEU:HA	4:M9:241:LEU:HD23	1.63	0.43
5:N9:22:LEU:O	5:N9:37:HIS:CE1	2.70	0.43
2:C9:99:ALA:HB2	3:D9:9:ILE:HD13	2.00	0.43
12:F9:301:CYC:HC	12:F9:301:CYC:HMD3	1.83	0.43
3:J9:20:SER:O	3:J9:21:GLU:C	2.45	0.43
12:U9:201:CYC:O2A	3:Z9:67:ILE:HD12	2.17	0.43
11:a9:312:ASP:CB	11:a9:315:LEU:CG	2.63	0.43
11:a9:446:ALA:HB1	11:a9:450:ARG:CG	2.49	0.43
11:aA:112:GLU:CG	11:aA:113:ALA:N	2.82	0.43
11:aA:710:THR:CG2	11:aA:807:GLN:OE1	2.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J1:124:THR:HB	3:J1:171:ILE:O	2.18	0.43
4:M1:190:ARG:HH12	4:M1:202:SER:HB2	1.68	0.43
2:U1:99:ALA:HB2	3:V1:9:ILE:HD13	2.00	0.43
2:W1:99:ALA:HB2	3:X1:9:ILE:HD13	2.00	0.43
12:Y1:201:CYC:CMA	12:Y1:201:CYC:NB	2.81	0.43
3:BA:2:GLN:HA	3:BA:6:THR:HG21	2.00	0.43
3:JA:68:ARG:HB2	11:aA:353:ALA:HB1	2.00	0.43
5:NA:23:SER:C	5:NA:25:THR:N	2.74	0.43
12:QA:201:CYC:HBB1	3:TA:75:PRO:CB	2.24	0.43
3:RA:124:THR:HB	3:RA:171:ILE:O	2.18	0.43
12:TA:302:CYC:HB	12:TA:302:CYC:HMA3	1.83	0.43
2:UA:99:ALA:HB2	3:VA:9:ILE:HD13	2.00	0.43
3:XA:2:GLN:HA	3:XA:6:THR:HG21	2.01	0.43
2:S1:38:MET:HE2	2:S1:38:MET:HB3	1.81	0.43
12:S1:201:CYC:CMA	12:S1:201:CYC:NB	2.81	0.43
2:K3:99:ALA:HB2	3:L3:9:ILE:HD13	2.00	0.43
6:M2:65:VAL:HG12	1:h7:59:ALA:C	2.41	0.43
3:D4:2:GLN:HA	3:D4:6:THR:HG21	2.00	0.43
4:M3:134:ASN:ND2	5:N3:1:MET:H1	2.16	0.43
4:M3:268:ARG:CB	3:V3:111:ASN:HD21	2.32	0.43
12:P3:201:CYC:HC	12:P3:201:CYC:HMD3	1.82	0.43
12:P3:202:CYC:HB	12:P3:202:CYC:HMA3	1.84	0.43
3:S4:120:LEU:CG	12:S4:202:CYC:HBD1	2.45	0.43
3:S4:127:VAL:HG22	12:S4:202:CYC:HMC2	2.00	0.43
12:F4:202:CYC:HC	12:F4:202:CYC:HMD3	1.82	0.43
4:M4:51:ARG:NH1	4:M4:51:ARG:CG	2.78	0.43
4:M4:91:VAL:O	4:M4:218:VAL:CG2	2.51	0.43
12:M4:301:CYC:C1B	3:Y4:88:ILE:HD11	2.49	0.43
8:K5:80:LEU:HD12	12:K5:201:CYC:C3D	2.48	0.43
1:L5:14:VAL:HG12	9:i5:64:ASN:ND2	2.34	0.43
1:N5:14:VAL:C	1:R5:68:PRO:HB3	2.41	0.43
8:O5:25:ARG:HH21	8:E5:25:ARG:CD	2.32	0.43
3:Y4:119:ALA:C	3:Y4:121:GLY:N	2.76	0.43
1:F5:71:MEN:O	1:F5:77:ARG:HD3	2.18	0.43
8:G5:115:MET:SD	12:G5:201:CYC:CHB	3.06	0.43
8:U5:11:ALA:CB	8:U5:18:LEU:CD1	2.96	0.43
1:X5:86:ASP:OD1	1:X5:90:ARG:NE	2.51	0.43
12:X5:201:CYC:O1A	10:j5:515:PRO:HB3	2.18	0.43
1:Z5:71:MEN:O	1:Z5:77:ARG:HD3	2.18	0.43
9:z5:15:LYS:HD2	9:z5:16:ARG:N	2.34	0.43
10:j5:1025:LEU:HD21	10:j5:1035:PHE:CA	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:18:ARG:HH12	10:k5:268:SER:CB	2.31	0.43
10:k5:190:LEU:CD2	12:k5:1201:CYC:C1D	2.96	0.43
10:k5:221:LYS:NZ	10:k5:221:LYS:O	2.40	0.43
10:k5:292:GLU:OE1	10:k5:292:GLU:CA	2.66	0.43
10:k5:851:HIS:ND1	10:k5:851:HIS:O	2.51	0.43
10:k5:1047:LYS:O	10:k5:1051:GLU:HB2	2.12	0.43
3:F6:124:THR:HB	3:F6:171:ILE:O	2.18	0.43
8:O7:37:LEU:HD23	8:O7:97:VAL:HG12	2.00	0.43
1:F7:71:MEN:O	1:F7:77:ARG:HD3	2.18	0.43
8:K7:8:ILE:O	8:K7:11:ALA:N	2.51	0.43
8:g7:130:VAL:CG1	8:g7:157:VAL:HG23	2.48	0.43
1:X7:71:MEN:O	1:X7:77:ARG:HD3	2.18	0.43
8:a7:67:SER:HB3	8:a7:68:PRO:HD2	2.00	0.43
8:c7:96:ILE:CG1	8:c7:152:TYR:CB	2.92	0.43
8:e7:37:LEU:HD22	1:f7:24:LEU:HD22	2.00	0.43
2:E1:138:VAL:O	2:E1:138:VAL:CG1	2.67	0.43
8:o7:27:LYS:HE3	1:p7:35:ALA:C	2.43	0.43
8:o7:30:VAL:HG12	1:p7:31:PHE:HA	1.99	0.43
9:x7:15:LYS:O	9:x7:16:ARG:HG3	2.19	0.43
12:H8:201:CYC:HC	12:H8:201:CYC:HMD3	1.82	0.43
4:M8:74:LEU:HA	4:M8:74:LEU:HD23	1.68	0.43
4:M8:96:LYS:HD3	3:Q8:113:LEU:CD1	2.48	0.43
4:M8:132:LEU:HD13	4:M8:142:PHE:HB2	2.00	0.43
4:M8:140:ARG:HH12	4:M8:210:ILE:CG1	2.31	0.43
2:N8:115:GLU:CA	5:Z8:32:PRO:CG	2.90	0.43
12:P8:201:CYC:O2A	3:S8:67:ILE:HD12	2.17	0.43
3:Q8:78:ARG:HD2	12:Z8:301:CYC:HMD3	2.00	0.43
3:Q8:110:LEU:HD11	3:Q8:166:LYS:C	2.43	0.43
2:R8:99:ALA:HB2	3:S8:9:ILE:HD13	2.00	0.43
12:L9:202:CYC:C1B	11:a9:404:TYR:CZ	3.01	0.43
12:L9:202:CYC:HC	12:L9:202:CYC:HMD3	1.83	0.43
4:M9:62:LYS:HA	4:M9:62:LYS:HD2	1.67	0.43
3:H9:116:THR:CG2	11:a9:449:ASN:ND2	2.65	0.43
12:R9:201:CYC:HC	12:R9:201:CYC:HMD3	1.83	0.43
2:S9:99:ALA:HB2	3:T9:9:ILE:HD13	2.00	0.43
12:X9:201:CYC:HC	12:X9:201:CYC:HMD3	1.83	0.43
11:a9:31:SER:HB2	11:a9:32:ARG:H	1.71	0.43
11:a9:112:GLU:O	11:a9:114:ASP:N	2.51	0.43
11:a9:787:ARG:NH2	11:a9:819:SER:HB3	2.27	0.43
11:aA:284:PRO:HG3	11:aA:295:ARG:NH2	2.33	0.43
11:aA:332:SER:H	11:aA:333:GLN:HE21	1.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:558:VAL:HG12	11:aA:560:SER:CB	2.48	0.43
11:aA:745:GLY:CA	2:K1:14:SER:C	2.89	0.43
3:H1:124:THR:HB	3:H1:171:ILE:O	2.18	0.43
2:I1:138:VAL:O	2:I1:138:VAL:CG1	2.67	0.43
3:L1:2:GLN:HA	3:L1:6:THR:HG21	2.00	0.43
12:B2:201:CYC:HB	12:B2:201:CYC:HMA3	1.83	0.43
1:A:75:THR:HG23	10:k5:182:ASN:O	2.15	0.43
3:LA:84:ARG:NH2	11:aA:406:LEU:HD23	2.34	0.43
4:MA:176:ARG:CG	4:MA:176:ARG:NH1	2.70	0.43
2:OA:128:ILE:CG2	2:OA:132:LYS:HE3	2.47	0.43
12:PA:201:CYC:HC	12:PA:201:CYC:HMD3	1.82	0.43
2:QA:67:THR:O	2:U1:46:SER:HB3	2.04	0.43
2:QA:138:VAL:O	2:QA:138:VAL:CG1	2.67	0.43
12:TA:302:CYC:HC	12:TA:302:CYC:HMD3	1.78	0.43
3:P1:124:THR:HB	3:P1:171:ILE:O	2.18	0.43
3:R1:124:THR:HB	3:R1:171:ILE:O	2.18	0.43
12:I3:201:CYC:CMA	12:I3:201:CYC:NB	2.82	0.43
12:H2:201:CYC:HBB2	6:M2:243:ALA:HA	1.95	0.43
12:F3:202:CYC:CMD	12:F3:202:CYC:NC	2.75	0.43
2:C4:138:VAL:O	2:C4:138:VAL:CG1	2.67	0.43
3:L3:88:ILE:HD12	3:L3:91:ARG:HH21	1.81	0.43
2:O3:99:ALA:HB2	3:P3:9:ILE:HD13	2.00	0.43
2:O3:138:VAL:O	2:O3:138:VAL:CG1	2.67	0.43
12:R3:201:CYC:HC	12:R3:201:CYC:HMD3	1.83	0.43
3:V3:2:GLN:HA	3:V3:6:THR:HG21	2.00	0.43
3:B1:2:GLN:HA	3:B1:6:THR:HG21	2.00	0.43
3:B1:127:VAL:CA	12:B1:202:CYC:CMC	2.93	0.43
3:S4:2:GLN:HA	3:S4:6:THR:HG21	2.00	0.43
3:U4:115:GLU:CD	4:M4:74:LEU:HD12	2.43	0.43
12:V4:201:CYC:CMA	12:V4:201:CYC:NB	2.82	0.43
12:F4:201:CYC:HB	12:F4:201:CYC:HMA3	1.84	0.43
3:H4:2:GLN:HA	3:H4:6:THR:HG21	2.00	0.43
3:H4:65:ASP:OD1	3:H4:65:ASP:N	2.47	0.43
12:H4:201:CYC:OB	11:aA:129:ASN:CG	2.60	0.43
4:M4:142:PHE:O	4:M4:146:LEU:CG	2.47	0.43
12:N4:201:CYC:O2A	3:Q4:67:ILE:HD12	2.17	0.43
3:Q4:77:ARG:NH1	5:Z4:37:HIS:CE1	2.84	0.43
8:O5:37:LEU:HD23	8:O5:97:VAL:HG12	2.00	0.43
5:Z4:13:SER:HB3	5:Z4:14:LYS:H	1.55	0.43
12:Z4:301:CYC:HMD3	12:Z4:301:CYC:HC	1.83	0.43
2:C1:99:ALA:HB2	3:D1:9:ILE:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:C1:201:CYC:O2A	3:F1:67:ILE:HD12	2.17	0.43
1:f5:114:GLU:HA	10:j5:491:THR:HG21	2.00	0.43
1:P5:118:SER:CB	10:k5:498:ALA:HB1	2.47	0.43
12:Q5:201:CYC:HB	12:Q5:201:CYC:CMA	2.21	0.43
1:T5:107:ARG:CZ	10:j5:482:GLN:CD	2.91	0.43
8:W5:67:SER:HB3	8:W5:68:PRO:HD2	2.00	0.43
8:a5:16:ARG:HG3	8:a5:16:ARG:HH11	1.83	0.43
10:j5:274:MET:HE2	10:j5:323:VAL:HG22	2.01	0.43
10:j5:382:ILE:HG21	10:j5:382:ILE:HD13	1.58	0.43
10:j5:637:ARG:HH11	10:j5:637:ARG:HD2	1.61	0.43
10:k5:190:LEU:HD23	10:k5:190:LEU:HA	1.57	0.43
10:k5:232:ARG:CZ	10:k5:232:ARG:CB	2.85	0.43
10:k5:978:LEU:HD21	1:p7:107:ARG:HE	1.78	0.43
10:k5:1052:PRO:CB	11:a9:32:ARG:CZ	2.95	0.43
3:D6:2:GLN:HA	3:D6:6:THR:HG21	2.00	0.43
2:G6:138:VAL:O	2:G6:138:VAL:CG1	2.67	0.43
2:I6:138:VAL:O	2:I6:138:VAL:CG1	2.67	0.43
8:E7:8:ILE:O	8:E7:11:ALA:N	2.51	0.43
1:F7:72:MET:HE2	1:F7:72:MET:HB3	1.87	0.43
8:G7:64:ASP:HA	8:G7:67:SER:CB	2.49	0.43
8:U7:11:ALA:CB	8:U7:18:LEU:CD1	2.96	0.43
8:U7:21:GLY:O	8:U7:24:ASP:HB2	2.19	0.43
8:W7:8:ILE:O	8:W7:11:ALA:N	2.51	0.43
1:X7:3:ASP:H	1:X7:6:THR:HG1	1.63	0.43
1:X7:77:ARG:NH2	9:w7:62:GLY:O	2.52	0.43
8:Y7:64:ASP:HA	8:Y7:67:SER:CB	2.48	0.43
1:Z7:71:MEN:O	1:Z7:77:ARG:HD3	2.18	0.43
8:a7:37:LEU:HD23	8:a7:97:VAL:HG12	1.99	0.43
1:b7:52:ILE:O	1:b7:52:ILE:CG2	2.67	0.43
1:b7:75:THR:HG21	8:c7:112:VAL:CG2	2.48	0.43
8:c7:36:ARG:NH2	8:c7:152:TYR:HH	2.11	0.43
12:B8:202:CYC:C1D	4:M8:53:LEU:CD2	2.96	0.43
8:o7:2:SER:CB	1:p7:5:ILE:CB	2.90	0.43
8:q7:49:ARG:NH1	3:H1:63:GLN:HE21	2.15	0.43
8:s7:130:VAL:CG1	8:s7:157:VAL:HG23	2.48	0.43
8:u7:18:LEU:CG	1:v7:97:LEU:HD13	2.49	0.43
12:U8:202:CYC:CMD	12:U8:202:CYC:NC	2.75	0.43
4:M8:179:TYR:CZ	4:M8:230:GLN:HG3	2.54	0.43
4:M8:230:GLN:HE22	12:M8:301:CYC:HBA1	1.84	0.43
4:M8:268:ARG:NH1	3:Y8:112:GLY:N	2.65	0.43
12:M8:302:CYC:HMD3	12:M8:302:CYC:HC	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M8:302:CYC:HAC1	3:S8:81:ALA:CB	2.49	0.43
12:N8:201:CYC:C1B	3:Q8:76:ASN:OD1	2.66	0.43
3:S8:65:ASP:OD1	3:S8:65:ASP:N	2.47	0.43
4:M9:38:PRO:CD	12:B9:201:CYC:HBB2	2.48	0.43
2:Q9:138:VAL:O	2:Q9:138:VAL:CG1	2.67	0.43
5:Z8:14:LYS:HE3	5:Z8:14:LYS:HB2	1.92	0.43
2:E9:138:VAL:O	2:E9:138:VAL:CG1	2.67	0.43
3:F9:124:THR:HB	3:F9:171:ILE:O	2.18	0.43
2:I9:37:SER:HB3	2:I9:97:LEU:O	2.19	0.43
3:J9:68:ARG:HB2	11:a9:353:ALA:HB1	2.00	0.43
3:J9:124:THR:HB	3:J9:171:ILE:O	2.18	0.43
2:K9:138:VAL:O	2:K9:138:VAL:CG1	2.67	0.43
3:X9:2:GLN:HA	3:X9:6:THR:HG21	2.01	0.43
11:a9:50:LEU:HA	11:a9:50:LEU:HD12	1.60	0.43
11:a9:308:LEU:CD2	11:a9:312:ASP:HB3	2.49	0.43
11:aA:572:THR:CG2	11:aA:573:SER:N	2.82	0.43
11:aA:611:GLY:HA3	11:aA:614:SER:HB3	2.00	0.43
12:V1:201:CYC:HC	12:V1:201:CYC:HMD3	1.82	0.43
3:B2:67:ILE:HD12	12:E2:201:CYC:O2A	2.17	0.43
2:AA:49:ASP:O	2:AA:50:SER:C	2.62	0.43
3:FA:2:GLN:HA	3:FA:6:THR:HG21	2.00	0.43
4:MA:62:LYS:HD2	4:MA:62:LYS:HA	1.67	0.43
4:MA:158:PHE:CZ	2:UA:10:ALA:CA	3.01	0.43
4:MA:159:CYS:O	3:VA:107:ASP:C	2.62	0.43
2:OA:49:ASP:O	2:OA:50:SER:C	2.62	0.43
3:PA:2:GLN:HA	3:PA:6:THR:HG21	2.00	0.43
12:RA:201:CYC:HC	12:RA:201:CYC:HMD3	1.83	0.43
12:RA:202:CYC:HB	12:RA:202:CYC:HMA3	1.84	0.43
2:UA:38:MET:HE2	2:UA:38:MET:HB3	1.81	0.43
3:VA:67:ILE:HD12	12:WA:201:CYC:O2A	2.17	0.43
12:A1:201:CYC:CMA	12:A1:201:CYC:NB	2.82	0.43
3:H3:62:GLU:O	8:k7:49:ARG:HD2	2.19	0.43
12:H3:201:CYC:HB	12:H3:201:CYC:HMA3	1.84	0.43
3:J3:67:ILE:HD12	12:K3:201:CYC:O2A	2.17	0.43
12:G2:201:CYC:CMA	12:G2:201:CYC:NB	2.81	0.43
3:J2:124:THR:HB	3:J2:171:ILE:O	2.18	0.43
3:L2:70:GLY:HA2	6:M2:67:GLY:CA	2.45	0.43
6:M2:42:VAL:HG11	8:i7:56:ASP:OD1	2.19	0.43
6:M2:239:TRP:CD1	6:M2:241:GLY:H	2.37	0.43
12:N2:101:CYC:HC	12:N2:101:CYC:HMD3	1.83	0.43
2:E3:138:VAL:O	2:E3:138:VAL:CG1	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:24:LEU:HB3	12:B4:201:CYC:HAB2	2.00	0.43
12:B4:201:CYC:HB	12:B4:201:CYC:HMA3	1.84	0.43
3:D4:150:ARG:NH1	2:C1:140:SER:C	2.77	0.43
3:L3:2:GLN:HA	3:L3:6:THR:HG21	2.00	0.43
2:O3:49:ASP:O	2:O3:50:SER:C	2.62	0.43
2:Q3:99:ALA:HB2	3:R3:9:ILE:HD13	2.00	0.43
3:X3:124:THR:HB	3:X3:171:ILE:O	2.18	0.43
2:T4:99:ALA:HB2	3:U4:9:ILE:HD13	2.00	0.43
2:E4:138:VAL:O	2:E4:138:VAL:CG1	2.67	0.43
12:E4:201:CYC:CMA	12:E4:201:CYC:NB	2.81	0.43
12:H4:202:CYC:HB	12:H4:202:CYC:HMA3	1.83	0.43
3:L4:68:ARG:HG3	11:aA:81:ASP:C	2.43	0.43
3:L4:69:PRO:C	3:L4:71:GLY:N	2.76	0.43
4:M4:27:HIS:ND1	4:M4:35:THR:O	2.49	0.43
4:M4:56:MET:CE	4:M4:69:ILE:HD11	2.48	0.43
4:M4:144:ARG:CZ	5:Z4:59:ARG:CZ	2.94	0.43
3:O4:2:GLN:HA	3:O4:6:THR:HG21	2.01	0.43
3:O4:108:ARG:N	5:Z4:61:LYS:CE	2.81	0.43
2:P4:138:VAL:O	2:P4:138:VAL:CG1	2.67	0.43
3:Q4:82:CYS:O	3:Q4:86:MET:HG3	2.18	0.43
3:Q4:85:ASP:HA	3:Q4:88:ILE:CD1	2.47	0.43
8:K5:96:ILE:HD13	8:K5:96:ILE:HG21	1.60	0.43
12:O5:201:CYC:HB	12:O5:201:CYC:CMA	2.21	0.43
8:A5:115:MET:SD	12:A5:201:CYC:CHB	3.06	0.43
8:A5:119:LEU:HD11	12:A5:201:CYC:HAA2	2.00	0.43
8:G5:119:LEU:HD13	12:G5:201:CYC:HHA	1.90	0.43
1:J5:76:ARG:HH22	9:i5:67:VAL:HG21	1.84	0.43
12:P5:201:CYC:HMD1	12:P5:201:CYC:NC	2.09	0.43
1:R5:72:MET:HE2	1:R5:72:MET:HB3	1.87	0.43
8:Y5:64:ASP:HA	8:Y5:67:SER:CB	2.48	0.43
3:J6:88:ILE:CD1	6:M6:185:PHE:CZ	3.01	0.43
6:M6:147:ASP:CG	2:E6:15:GLN:HG2	2.43	0.43
6:M6:239:TRP:CD1	6:M6:241:GLY:H	2.37	0.43
8:A7:64:ASP:HA	8:A7:67:SER:CB	2.49	0.43
9:i5:8:THR:O	9:i5:51:VAL:HG13	2.18	0.43
10:j5:144:ASN:OD1	10:j5:144:ASN:N	2.50	0.43
10:j5:156:SER:OG	12:j5:1201:CYC:C4C	2.65	0.43
10:j5:184:LEU:HA	10:j5:184:LEU:HD23	1.50	0.43
10:j5:395:SER:HA	10:j5:400:ALA:HB2	2.00	0.43
10:j5:725:LEU:HD23	8:K7:83:ARG:HD3	2.01	0.43
10:j5:870:GLU:OE2	10:j5:870:GLU:HA	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:1064:LYS:HD2	10:j5:1065:HIS:HA	2.01	0.43
10:k5:481:ILE:HG21	10:k5:481:ILE:HD13	1.69	0.43
10:k5:542:GLN:HG3	10:k5:560:VAL:HG12	1.99	0.43
10:k5:643:VAL:O	10:k5:643:VAL:HG12	2.16	0.43
10:k5:778:LYS:NZ	12:F7:201:CYC:CBB	2.60	0.43
2:A6:138:VAL:O	2:A6:138:VAL:CG1	2.67	0.43
8:O7:67:SER:HB3	8:O7:68:PRO:HD2	2.00	0.43
1:P7:14:VAL:C	1:N7:68:PRO:CB	2.67	0.43
1:R7:87:TYR:CE2	9:z7:38:PHE:CE1	3.03	0.43
8:S7:130:VAL:CG1	8:S7:157:VAL:HG23	2.48	0.43
8:C7:2:SER:O	8:C7:100:ASP:OD2	2.37	0.43
8:I7:37:LEU:HD23	8:I7:97:VAL:HG12	2.00	0.43
12:L7:201:CYC:CMA	12:L7:201:CYC:NB	2.74	0.43
1:Z7:14:VAL:CG1	9:x7:64:ASN:HD21	2.32	0.43
2:E1:99:ALA:HB2	3:F1:9:ILE:HD13	2.00	0.43
2:A8:34:ALA:HB3	3:B8:31:VAL:CG1	2.39	0.43
12:A8:201:CYC:CMA	12:A8:201:CYC:NB	2.82	0.43
12:D8:202:CYC:HC	12:D8:202:CYC:HMD3	1.83	0.43
8:o7:18:LEU:HB2	1:p7:97:LEU:HD11	2.01	0.43
9:y7:63:ALA:HB1	9:y7:64:ASN:H	1.42	0.43
3:W8:2:GLN:HA	3:W8:6:THR:HG21	2.00	0.43
2:G8:99:ALA:HB2	3:H8:9:ILE:HD13	2.00	0.43
2:I8:111:ALA:HA	11:a9:133:LEU:HD13	2.01	0.43
3:L8:86:MET:HG2	12:a9:901:CYC:CBC	2.29	0.43
4:M8:19:MET:HE2	4:M8:59:ILE:CD1	2.46	0.43
4:M8:104:ALA:HA	2:P8:14:SER:HB3	1.80	0.43
2:N8:49:ASP:O	2:N8:50:SER:C	2.62	0.43
3:Q8:105:LEU:HD21	3:Q8:166:LYS:HB2	1.99	0.43
2:Q9:99:ALA:HB2	3:R9:9:ILE:HD13	2.00	0.43
5:Z8:13:SER:HB3	5:Z8:14:LYS:H	1.55	0.43
2:A9:24:LEU:HB3	12:B9:202:CYC:HAB2	2.00	0.43
3:H9:124:THR:HB	3:H9:171:ILE:O	2.18	0.43
2:I9:8:VAL:CG1	2:I9:23:GLU:OE2	2.64	0.43
2:S9:38:MET:HE2	2:S9:38:MET:HB3	1.81	0.43
3:V9:2:GLN:HA	3:V9:6:THR:HG21	2.00	0.43
3:V9:124:THR:HB	3:V9:171:ILE:O	2.18	0.43
11:aA:308:LEU:CD2	11:aA:312:ASP:HB3	2.49	0.43
11:aA:363:GLN:H	11:aA:363:GLN:HE21	1.66	0.43
12:I1:201:CYC:CMA	12:I1:201:CYC:NB	2.82	0.43
4:M1:120:LEU:HD11	3:X1:84:ARG:HH12	1.83	0.43
3:F2:126:SER:CB	12:F2:201:CYC:HMC1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BA:30:LEU:CD1	3:BA:30:LEU:N	2.80	0.43
2:IA:37:SER:HB3	2:IA:97:LEU:O	2.19	0.43
2:KA:138:VAL:O	2:KA:138:VAL:CG1	2.67	0.43
4:MA:5:THR:C	4:MA:6:THR:OG1	2.56	0.43
4:MA:9:GLN:CD	4:MA:9:GLN:C	2.87	0.43
5:NA:54:LEU:CD2	3:TA:84:ARG:NH1	2.67	0.43
12:OA:201:CYC:CMA	12:OA:201:CYC:NB	2.82	0.43
2:QA:81:LYS:HZ3	3:TA:67:ILE:CD1	2.31	0.43
12:QA:201:CYC:CMA	12:QA:201:CYC:NB	2.81	0.43
3:XA:124:THR:HB	3:XA:171:ILE:O	2.18	0.43
3:R1:69:PRO:HA	3:R1:74:TYR:CD2	2.53	0.43
7:N2:5:VAL:HG23	3:F2:108:ARG:HH12	1.80	0.43
3:Z3:124:THR:HB	3:Z3:171:ILE:O	2.18	0.43
12:Z3:202:CYC:HC	12:Z3:202:CYC:HMD3	1.78	0.43
2:A4:49:ASP:O	2:A4:50:SER:C	2.62	0.43
12:D4:202:CYC:O2A	4:M4:35:THR:CB	2.57	0.43
3:L3:124:THR:HB	3:L3:171:ILE:O	2.18	0.43
4:M3:241:LEU:HD23	4:M3:241:LEU:HA	1.63	0.43
5:N3:53:LEU:HD13	12:R3:201:CYC:HAA1	2.01	0.43
12:T3:302:CYC:HB	12:T3:302:CYC:HMA3	1.84	0.43
3:S4:3:ASP:H	3:S4:6:THR:HB	1.84	0.43
3:L4:124:THR:HB	3:L4:171:ILE:O	2.18	0.43
4:M4:37:GLU:HG3	4:M4:38:PRO:HD2	2.00	0.43
4:M4:205:ASP:OD2	5:Z4:59:ARG:HB2	2.12	0.43
1:L5:82:ILE:HD13	8:G5:118:SER:CB	2.48	0.43
12:X4:201:CYC:CMA	12:X4:201:CYC:NB	2.81	0.43
3:Y4:110:LEU:HB3	3:Y4:170:SER:CB	2.49	0.43
1:B5:14:VAL:HG11	10:k5:555:ALA:N	2.32	0.43
8:G5:6:LYS:CE	8:S5:21:GLY:H	2.31	0.43
8:G5:121:THR:HG22	12:G5:201:CYC:HMC3	2.01	0.43
8:G5:161:GLN:NE2	1:T5:49:THR:HG22	2.34	0.43
1:J5:39:ARG:C	1:J5:41:ALA:N	2.70	0.43
1:f5:71:MEN:O	1:f5:77:ARG:HD3	2.18	0.43
1:P5:101:PRO:HB2	1:b5:113:LYS:NZ	2.33	0.43
1:P5:123:ILE:CG2	10:k5:11:VAL:HG23	2.49	0.43
8:U5:27:LYS:HA	8:U5:30:VAL:HG22	1.99	0.43
1:b5:71:MEN:O	1:b5:77:ARG:HD3	2.18	0.43
10:j5:277:ILE:CB	10:j5:284:PRO:HA	2.49	0.43
10:j5:540:LEU:HD21	10:j5:544:VAL:HG21	2.00	0.43
10:j5:649:PHE:O	10:j5:649:PHE:CG	2.69	0.43
10:j5:971:VAL:CG1	1:t7:76:ARG:HH22	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:1033:ARG:NH2	10:k5:1098:GLU:HG2	2.34	0.43
2:G6:99:ALA:HB2	3:H6:9:ILE:HD13	2.00	0.43
3:H6:2:GLN:HA	3:H6:6:THR:HG21	2.00	0.43
3:D1:68:ARG:CZ	3:X1:68:ARG:HH12	2.31	0.43
8:O7:6:LYS:HZ1	8:E7:19:SER:HB3	1.83	0.43
8:E7:67:SER:HB3	8:E7:68:PRO:HD2	2.00	0.43
8:W7:12:ASP:C	9:w7:46:LYS:HE2	2.44	0.43
8:a7:130:VAL:CG1	8:a7:157:VAL:HG23	2.48	0.43
8:c7:67:SER:HB3	8:c7:68:PRO:HD2	2.00	0.43
8:c7:141:LEU:HD12	8:c7:146:ALA:HA	2.01	0.43
8:e7:67:SER:HB3	8:e7:68:PRO:HD2	2.00	0.43
8:e7:130:VAL:CG1	8:e7:157:VAL:HG23	2.48	0.43
2:A8:138:VAL:O	2:A8:138:VAL:CG1	2.67	0.43
8:o7:5:THR:OG1	1:p7:6:THR:HG23	2.12	0.43
8:q7:120:GLN:CG	1:v7:53:LYS:NZ	2.78	0.43
8:s7:2:SER:O	8:s7:100:ASP:OD2	2.37	0.43
9:y7:15:LYS:O	9:y7:16:ARG:HG3	2.19	0.43
2:G8:15:GLN:HE21	11:a9:120:ARG:HH11	1.67	0.43
4:M8:99:VAL:HG13	3:Q8:108:ARG:HH12	1.83	0.43
4:M8:126:THR:CB	12:M8:302:CYC:CGA	2.70	0.43
4:M8:268:ARG:O	4:M8:269:SER:C	2.52	0.43
2:N8:138:VAL:O	2:N8:138:VAL:CG1	2.67	0.43
3:Q8:124:THR:HB	3:Q8:171:ILE:O	2.18	0.43
3:S8:2:GLN:HA	3:S8:6:THR:HG21	2.00	0.43
3:L9:9:ILE:HD13	2:K9:99:ALA:HB2	2.00	0.43
3:L9:124:THR:HB	3:L9:171:ILE:O	2.18	0.43
4:M9:176:ARG:CG	4:M9:176:ARG:NH1	2.70	0.43
2:O9:138:VAL:O	2:O9:138:VAL:CG1	2.67	0.43
3:P9:2:GLN:HA	3:P9:6:THR:HG21	2.00	0.43
5:Z8:37:HIS:CB	12:Z8:301:CYC:C4B	2.97	0.43
3:B9:30:LEU:CD1	3:B9:30:LEU:N	2.80	0.43
3:H9:66:LEU:HD13	12:H9:202:CYC:H2C	2.01	0.43
12:Z9:202:CYC:HC	12:Z9:202:CYC:HMD3	1.82	0.43
11:a9:30:MET:HE3	11:a9:35:ARG:CA	2.46	0.43
11:a9:112:GLU:CG	11:a9:113:ALA:N	2.82	0.43
11:a9:419:ARG:O	11:a9:421:GLY:N	2.52	0.43
11:a9:581:ARG:HD2	11:a9:581:ARG:O	2.18	0.43
11:aA:538:ARG:HB3	11:aA:538:ARG:HE	1.58	0.43
11:aA:581:ARG:HD2	11:aA:581:ARG:O	2.18	0.43
11:aA:657:ARG:NH1	2:I1:15:GLN:O	2.32	0.43
4:M1:188:LEU:HD23	12:Z1:202:CYC:HMA2	1.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N1:39:PRO:HD2	12:T1:301:CYC:HBB2	1.99	0.43
2:Y1:38:MET:HE2	2:Y1:38:MET:HB3	1.81	0.43
12:Z1:202:CYC:HC	12:Z1:202:CYC:HMD3	1.82	0.43
2:A2:34:ALA:HB3	3:B2:31:VAL:CG1	2.39	0.43
2:C2:138:VAL:O	2:C2:138:VAL:CG1	2.67	0.43
12:D2:201:CYC:HC	12:D2:201:CYC:HMD3	1.83	0.43
2:AA:24:LEU:HB3	12:BA:202:CYC:HAB2	2.00	0.43
3:FA:36:LYS:O	3:FA:156:LEU:CD2	2.66	0.43
3:HA:124:THR:HB	3:HA:171:ILE:O	2.18	0.43
2:IA:155:ASP:O	2:IA:159:ASN:OD1	2.37	0.43
4:MA:118:TYR:CD1	3:ZA:84:ARG:CZ	3.01	0.43
3:VA:108:ARG:CG	3:VA:108:ARG:HH21	2.32	0.43
3:ZA:2:GLN:HA	3:ZA:6:THR:HG21	2.00	0.43
2:I2:99:ALA:HB2	3:J2:9:ILE:HD13	2.00	0.43
2:I2:138:VAL:O	2:I2:138:VAL:CG1	2.67	0.43
12:L3:201:CYC:HB	12:L3:201:CYC:HMA3	1.84	0.43
3:T3:2:GLN:HA	3:T3:6:THR:HG21	2.00	0.43
12:V3:202:CYC:HB	12:V3:202:CYC:HMA3	1.84	0.43
3:X3:2:GLN:HA	3:X3:6:THR:HG21	2.00	0.43
12:U4:201:CYC:HC	12:U4:201:CYC:HMD3	1.82	0.43
3:F4:108:ARG:HE	4:M4:9:GLN:CA	2.32	0.43
3:J4:2:GLN:HA	3:J4:6:THR:HG21	2.00	0.43
2:K4:138:VAL:O	2:K4:138:VAL:CG1	2.67	0.43
4:M4:21:LEU:HD12	4:M4:21:LEU:C	2.37	0.43
4:M4:94:TRP:CZ2	5:Z4:31:TRP:HZ2	2.37	0.43
4:M4:232:VAL:HG11	3:Y4:110:LEU:HA	2.01	0.43
2:N4:118:ARG:HH12	5:Z4:32:PRO:CB	2.31	0.43
12:R4:201:CYC:CMA	12:R4:201:CYC:NB	2.81	0.43
12:K5:201:CYC:HBB2	1:J5:73:TYR:CE1	2.53	0.43
8:O5:2:SER:O	8:O5:100:ASP:OD2	2.37	0.43
2:X4:138:VAL:O	2:X4:138:VAL:CG1	2.67	0.43
3:Y4:2:GLN:HA	3:Y4:6:THR:HG21	2.00	0.43
8:A5:130:VAL:CG1	8:A5:157:VAL:HG23	2.48	0.43
8:C5:67:SER:HB3	8:C5:68:PRO:HD2	2.00	0.43
1:D5:76:ARG:HH12	9:z5:67:VAL:HB	1.82	0.43
8:E5:80:LEU:HD12	12:E5:201:CYC:C3D	2.48	0.43
8:I5:2:SER:O	8:I5:100:ASP:OD2	2.37	0.43
2:C1:138:VAL:O	2:C1:138:VAL:CG1	2.67	0.43
1:d5:62:TYR:OH	12:e5:201:CYC:O1D	2.30	0.43
8:Y5:114:GLU:OE2	10:k5:312:TYR:C	2.61	0.43
8:a5:130:VAL:CG1	8:a5:157:VAL:HG23	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:J6:201:CYC:CMD	12:J6:201:CYC:NC	2.75	0.43
6:M6:43:TRP:CH2	8:c7:52:LYS:CB	3.02	0.43
10:j5:190:LEU:HD23	10:j5:190:LEU:HA	1.57	0.43
10:j5:262:TYR:CD1	10:j5:262:TYR:C	2.97	0.43
10:j5:322:LYS:NZ	10:j5:336:ARG:NH1	2.66	0.43
10:j5:328:ILE:HG21	10:j5:336:ARG:NH2	2.33	0.43
10:j5:352:ILE:HG22	10:j5:354:SER:H	1.84	0.43
10:j5:362:LYS:HG2	10:j5:362:LYS:O	2.18	0.43
10:j5:630:ILE:HD13	10:j5:630:ILE:HG21	1.68	0.43
10:j5:793:SER:O	12:T7:201:CYC:HBA1	2.19	0.43
10:j5:978:LEU:HD12	10:j5:978:LEU:HA	1.88	0.43
10:k5:153:MET:HE3	10:k5:153:MET:HB3	1.94	0.43
10:k5:362:LYS:O	10:k5:362:LYS:HG2	2.18	0.43
10:k5:386:ILE:CG2	10:k5:387:VAL:N	2.36	0.43
10:k5:568:ILE:O	10:k5:568:ILE:CG2	2.66	0.43
10:k5:990:ARG:HG2	8:a7:110:ILE:HD12	2.01	0.43
10:k5:1001:TYR:CE1	10:k5:1016:LEU:HD11	2.54	0.43
12:D1:202:CYC:HC	12:D1:202:CYC:HMD3	1.83	0.43
8:I7:2:SER:HA	8:I7:100:ASP:HB3	2.01	0.43
12:h7:201:CYC:HC	12:h7:201:CYC:CMD	2.14	0.43
8:i7:109:ILE:HG21	8:i7:159:ALA:HB1	2.01	0.43
8:i7:112:VAL:HG12	8:i7:113:LYS:H	1.78	0.43
8:U7:33:GLY:HA2	8:U7:36:ARG:HB2	2.01	0.43
12:W7:201:CYC:HB	12:W7:201:CYC:CMA	2.21	0.43
8:a7:2:SER:O	8:a7:100:ASP:OD2	2.37	0.43
8:a7:66:VAL:O	8:a7:66:VAL:CG1	2.66	0.43
8:c7:46:ALA:HB2	8:c7:140:LEU:HD12	1.87	0.43
8:c7:109:ILE:HG21	8:c7:159:ALA:HB1	2.01	0.43
8:c7:138:THR:O	8:c7:138:THR:HG23	2.18	0.43
8:m7:33:GLY:HA2	8:m7:36:ARG:HB2	2.01	0.43
12:U8:201:CYC:HC	12:U8:201:CYC:HMD3	1.82	0.43
3:W8:124:THR:HB	3:W8:171:ILE:O	2.18	0.43
3:F8:113:LEU:HB3	3:F8:171:ILE:HG12	2.01	0.43
3:F8:118:VAL:HG12	3:Y8:119:ALA:HA	2.01	0.43
12:G8:201:CYC:CMA	12:G8:201:CYC:NB	2.82	0.43
12:J8:201:CYC:HC	12:J8:201:CYC:HMD3	1.83	0.43
2:N8:112:GLY:HA2	5:Z8:34:LEU:N	1.83	0.43
4:M9:132:LEU:CD1	4:M9:142:PHE:CB	2.95	0.43
3:B9:124:THR:HB	3:B9:171:ILE:O	2.18	0.43
12:D9:201:CYC:HC	12:D9:201:CYC:HMD3	1.83	0.43
2:G9:138:VAL:O	2:G9:138:VAL:CG1	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R9:2:GLN:HA	3:R9:6:THR:HG21	2.00	0.43
12:V9:202:CYC:HB	12:V9:202:CYC:HMA3	1.84	0.43
2:W9:138:VAL:O	2:W9:138:VAL:CG1	2.67	0.43
11:a9:38:VAL:HG12	11:a9:39:PRO:CD	2.48	0.43
11:a9:486:ILE:HD13	11:a9:486:ILE:HA	1.79	0.43
11:a9:643:LEU:HD21	11:a9:689:VAL:HG22	1.91	0.43
11:aA:38:VAL:HG12	11:aA:39:PRO:CD	2.48	0.43
11:aA:327:SER:C	11:aA:329:ASN:H	2.27	0.43
11:aA:419:ARG:O	11:aA:421:GLY:N	2.52	0.43
11:aA:426:ARG:NH1	11:aA:430:ARG:HH21	2.16	0.43
11:aA:710:THR:HB	11:aA:807:GLN:HB3	1.96	0.43
11:aA:713:ASN:OD1	12:aA:902:CYC:CMA	2.66	0.43
2:K1:138:VAL:O	2:K1:138:VAL:CG1	2.67	0.43
4:M1:134:ASN:CG	5:N1:1:MET:H2	2.27	0.43
2:A2:59:VAL:O	2:A2:66:LEU:CD1	2.62	0.43
2:E2:138:VAL:O	2:E2:138:VAL:CG1	2.67	0.43
3:F2:2:GLN:HA	3:F2:6:THR:HG21	2.00	0.43
12:DA:201:CYC:HC	12:DA:201:CYC:HMD3	1.83	0.43
2:EA:17:ARG:CZ	2:IA:2:LYS:NZ	2.82	0.43
12:GA:201:CYC:CMA	12:GA:201:CYC:NB	2.82	0.43
2:IA:20:ASN:O	2:IA:24:LEU:HG	2.18	0.43
4:MA:51:ARG:NH1	4:MA:51:ARG:CG	2.77	0.43
3:TA:124:THR:HB	3:TA:171:ILE:O	2.18	0.43
12:UA:201:CYC:CMA	12:UA:201:CYC:NB	2.82	0.43
12:YA:201:CYC:CMA	12:YA:201:CYC:NB	2.81	0.43
12:ZA:202:CYC:HB	12:ZA:202:CYC:CMA	2.25	0.43
12:P1:202:CYC:HB	12:P1:202:CYC:HMA3	1.84	0.43
3:J2:88:ILE:CD1	6:M2:185:PHE:CZ	3.01	0.43
3:L2:70:GLY:HA2	6:M2:68:THR:H	1.84	0.43
12:L2:201:CYC:HC	12:L2:201:CYC:HMD3	1.83	0.43
12:L2:202:CYC:C4B	2:A2:33:ARG:NH1	2.44	0.43
6:M2:278:ARG:NH2	1:j7:67:ARG:HH12	2.17	0.43
12:L3:202:CYC:HAA1	11:a9:731:GLN:HE21	1.84	0.43
4:M3:211:GLN:O	5:N3:28:HIS:NE2	2.45	0.43
5:N3:50:LEU:CD2	12:R3:201:CYC:O1D	2.66	0.43
2:U3:138:VAL:O	2:U3:138:VAL:CG1	2.67	0.43
12:X3:202:CYC:HMD3	12:X3:202:CYC:NC	2.34	0.43
3:B1:3:ASP:H	3:B1:6:THR:HB	1.84	0.43
2:E4:99:ALA:HB2	3:F4:9:ILE:HD13	2.00	0.43
3:F4:124:THR:HB	3:F4:171:ILE:O	2.18	0.43
4:M4:29:PRO:CB	11:aA:226:PHE:HA	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M4:94:TRP:HZ3	3:Q4:91:ARG:HB3	1.83	0.43
4:M4:226:SER:HB2	3:Y4:85:ASP:HA	2.00	0.43
12:P4:201:CYC:CMA	12:P4:201:CYC:NB	2.82	0.43
1:L5:71:MEN:O	1:L5:77:ARG:HD3	2.18	0.43
8:A5:53:GLN:HB3	8:A5:136:VAL:HG21	2.00	0.43
8:A5:71:ASN:CG	12:A5:201:CYC:CMD	2.85	0.43
1:D5:76:ARG:NH1	9:z5:67:VAL:HG11	2.34	0.43
8:I5:37:LEU:HD11	1:J5:31:PHE:HE2	1.83	0.43
8:e5:2:SER:O	8:e5:100:ASP:OD2	2.37	0.43
8:U5:2:SER:HA	8:U5:100:ASP:HB3	2.01	0.43
8:Y5:120:GLN:CD	1:b5:53:LYS:HZ2	2.27	0.43
3:L6:2:GLN:HA	3:L6:6:THR:HG21	2.00	0.43
7:N6:15:VAL:HA	7:N6:44:PRO:HA	2.01	0.43
8:A7:130:VAL:CG1	8:A7:157:VAL:HG23	2.48	0.43
9:i5:7:VAL:HG22	9:i5:30:LYS:O	2.18	0.43
10:j5:305:PHE:HE2	10:j5:337:LEU:HD23	1.83	0.43
10:j5:834:LYS:O	10:j5:834:LYS:CG	2.66	0.43
10:k5:182:ASN:HD22	10:k5:182:ASN:H	1.67	0.43
10:k5:277:ILE:CB	10:k5:284:PRO:HA	2.49	0.43
10:k5:283:ARG:C	10:k5:283:ARG:CD	2.84	0.43
10:k5:339:LYS:HB2	10:k5:399:TYR:CE1	2.54	0.43
10:k5:367:ARG:NH1	10:k5:410:GLU:OE1	2.51	0.43
10:k5:387:VAL:O	10:k5:394:PRO:HG3	2.05	0.43
10:k5:826:THR:CG2	12:B7:201:CYC:CMA	2.97	0.43
12:F6:201:CYC:HMD3	12:F6:201:CYC:HC	1.82	0.43
8:O7:2:SER:HA	8:O7:100:ASP:HB3	2.01	0.43
8:O7:11:ALA:CB	8:O7:18:LEU:CD1	2.96	0.43
8:S7:67:SER:HB3	8:S7:68:PRO:HD2	2.00	0.43
8:I7:6:LYS:HD3	8:W7:21:GLY:HA3	2.01	0.43
8:I7:130:VAL:CG1	8:I7:157:VAL:HG23	2.49	0.43
8:i7:19:SER:OG	8:s7:101:VAL:HG21	2.18	0.43
8:i7:156:LEU:O	8:i7:160:MET:HG3	2.19	0.43
1:b7:46:SER:HA	8:o7:158:GLY:HA2	2.01	0.43
8:c7:139:SER:O	8:c7:139:SER:OG	2.36	0.43
8:c7:141:LEU:HB2	8:c7:146:ALA:HB2	2.01	0.43
3:B8:124:THR:HB	3:B8:171:ILE:O	2.18	0.43
8:m7:67:SER:HB3	8:m7:68:PRO:HD2	2.00	0.43
8:s7:27:LYS:HA	8:s7:30:VAL:HG22	2.00	0.43
8:u7:3:VAL:O	8:u7:7:ALA:N	2.51	0.43
8:u7:8:ILE:O	8:u7:11:ALA:N	2.51	0.43
8:u7:18:LEU:HB2	1:v7:97:LEU:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u7:30:VAL:CG2	1:v7:31:PHE:O	2.66	0.43
8:u7:90:ARG:CG	1:v7:18:TYR:CE1	3.02	0.43
12:v7:201:CYC:HC	12:v7:201:CYC:CMD	2.13	0.43
3:U8:120:LEU:O	3:U8:120:LEU:HG	2.19	0.43
3:F8:2:GLN:HA	3:F8:6:THR:HG21	2.00	0.43
4:M8:37:GLU:HG3	4:M8:38:PRO:HD2	2.00	0.43
12:M8:302:CYC:C1C	3:S8:78:ARG:NH1	2.70	0.43
4:M9:1:MET:HE3	4:M9:45:VAL:HA	1.29	0.43
4:M9:159:CYS:O	3:V9:107:ASP:C	2.62	0.43
3:Y8:2:GLN:HA	3:Y8:6:THR:HG21	2.00	0.43
12:I9:201:CYC:CMA	12:I9:201:CYC:NB	2.81	0.43
12:K9:201:CYC:CMA	12:K9:201:CYC:NB	2.81	0.43
2:S9:138:VAL:O	2:S9:138:VAL:CG1	2.67	0.43
2:Y9:138:VAL:O	2:Y9:138:VAL:CG1	2.67	0.43
11:a9:527:LEU:HD23	11:a9:527:LEU:HA	1.62	0.43
11:aA:446:ALA:HB1	11:aA:450:ARG:CG	2.49	0.43
11:aA:465:TYR:CE2	11:aA:516:GLN:HA	2.54	0.43
11:aA:670:LEU:HD22	2:K1:112:GLY:HA2	0.47	0.43
4:M1:120:LEU:HD23	4:M1:120:LEU:HA	1.89	0.43
4:M1:261:VAL:HG11	4:M1:266:LEU:HD13	1.99	0.43
2:Y1:138:VAL:O	2:Y1:138:VAL:CG1	2.67	0.43
3:D2:2:GLN:HA	3:D2:6:THR:HG21	2.00	0.43
1:Z:91:TYR:OH	10:j5:254:PRO:HB3	2.19	0.43
2:AA:138:VAL:O	2:AA:138:VAL:CG1	2.67	0.43
3:DA:124:THR:HB	3:DA:171:ILE:O	2.18	0.43
2:EA:17:ARG:CZ	2:IA:2:LYS:HZ1	2.31	0.43
2:OA:33:ARG:NH1	12:ZA:201:CYC:C4B	2.44	0.43
12:R1:201:CYC:HAA1	5:N1:53:LEU:HD13	2.01	0.43
3:H3:2:GLN:HA	3:H3:6:THR:HG21	2.00	0.43
2:I3:99:ALA:HB2	3:J3:9:ILE:HD13	2.00	0.43
12:J3:201:CYC:HB	12:J3:201:CYC:HMA3	1.83	0.43
2:K3:14:SER:C	11:a9:745:GLY:CA	2.91	0.43
12:I2:201:CYC:CMA	12:I2:201:CYC:NB	2.82	0.43
12:J2:201:CYC:HMD3	12:J2:201:CYC:NC	2.34	0.43
3:L2:124:THR:HB	3:L2:171:ILE:O	2.18	0.43
6:M2:147:ASP:CG	2:E2:15:GLN:HG2	2.43	0.43
6:M2:179:GLY:HA2	6:M2:182:GLN:HG2	2.01	0.43
7:N2:15:VAL:HA	7:N2:44:PRO:HA	2.01	0.43
3:B4:3:ASP:H	3:B4:6:THR:HB	1.84	0.43
3:L3:77:ARG:CB	11:a9:824:VAL:OXT	2.66	0.43
3:L3:92:TYR:HE1	3:L3:108:ARG:HE	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O3:59:VAL:O	2:O3:66:LEU:CD1	2.62	0.43
12:R3:202:CYC:HB	12:R3:202:CYC:HMA3	1.84	0.43
12:X3:202:CYC:HB	12:X3:202:CYC:HMA3	1.83	0.43
3:U4:124:THR:HB	3:U4:171:ILE:O	2.18	0.43
2:G4:138:VAL:O	2:G4:138:VAL:CG1	2.67	0.43
12:K4:201:CYC:CMA	12:K4:201:CYC:NB	2.81	0.43
4:M4:232:VAL:CG1	3:Y4:109:CYS:C	2.90	0.43
3:Q4:89:ILE:HG21	3:Q4:131:VAL:HG13	2.00	0.43
8:M5:64:ASP:HA	8:M5:67:SER:CB	2.48	0.43
1:N5:71:MEN:O	1:N5:77:ARG:HD3	2.18	0.43
3:Y4:87:GLU:CB	3:Y4:91:ARG:HH12	2.31	0.43
3:Y4:105:LEU:O	3:Y4:109:CYS:SG	2.77	0.43
5:Z4:68:LEU:HA	5:Z4:68:LEU:HD23	1.80	0.43
1:B5:72:MET:HE2	1:B5:72:MET:HB3	1.87	0.43
8:E5:8:ILE:O	8:E5:11:ALA:N	2.51	0.43
8:S5:64:ASP:HA	8:S5:67:SER:CB	2.48	0.43
8:S5:90:ARG:HA	1:T5:18:TYR:CD2	2.53	0.43
1:T5:14:VAL:C	1:X5:68:PRO:HB3	2.41	0.43
8:U5:67:SER:HB3	8:U5:68:PRO:HD2	2.00	0.43
8:a5:2:SER:O	8:a5:100:ASP:OD2	2.37	0.43
3:J6:87:GLU:OE1	6:M6:189:HIS:NE2	2.31	0.43
2:K6:99:ALA:HB2	3:L6:9:ILE:HD13	2.00	0.43
10:j5:600:VAL:O	10:j5:600:VAL:CG1	2.66	0.43
10:j5:612:ILE:H	10:j5:612:ILE:CD1	2.03	0.43
10:j5:790:ALA:HB2	1:T7:87:TYR:OH	2.18	0.43
10:j5:793:SER:O	12:T7:201:CYC:CBA	2.67	0.43
10:j5:909:ASP:OD1	10:j5:909:ASP:N	2.51	0.43
10:j5:1118:THR:HA	12:j5:1202:CYC:HMA3	2.00	0.43
10:j5:1124:TYR:OH	1:t7:119:LEU:CD2	2.58	0.43
10:k5:160:LEU:HD23	10:k5:160:LEU:HA	1.69	0.43
10:k5:440:TYR:N	10:k5:440:TYR:CD1	2.84	0.43
10:k5:813:ALA:CB	8:M7:14:GLU:OE2	2.67	0.43
10:k5:1041:ARG:O	10:k5:1041:ARG:HG3	2.18	0.43
2:C6:38:MET:HE3	3:D6:24:LEU:CD2	2.49	0.43
12:F6:202:CYC:HB	12:F6:202:CYC:HMA3	1.84	0.43
12:P7:201:CYC:CMA	12:P7:201:CYC:NB	2.74	0.43
8:K7:122:PRO:HD2	12:K7:201:CYC:OC	2.19	0.43
8:i7:8:ILE:O	8:i7:11:ALA:N	2.51	0.43
8:i7:47:ARG:CD	1:j7:18:TYR:CG	3.01	0.43
8:i7:141:LEU:HB2	8:i7:146:ALA:HB2	2.01	0.43
1:j7:119:LEU:HD21	9:y7:5:PHE:HZ	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a7:16:ARG:NH1	8:a7:16:ARG:CG	2.80	0.43
8:e7:64:ASP:HA	8:e7:67:SER:CB	2.48	0.43
2:A8:24:LEU:HB3	12:B8:201:CYC:HAB2	2.00	0.43
8:m7:2:SER:O	8:m7:100:ASP:OD2	2.37	0.43
12:m7:201:CYC:HB	12:m7:201:CYC:CMA	2.21	0.43
8:u7:30:VAL:HB	1:v7:31:PHE:CB	2.48	0.43
2:X8:138:VAL:O	2:X8:138:VAL:CG1	2.67	0.43
3:H8:2:GLN:HA	3:H8:6:THR:HG21	2.00	0.43
2:K8:99:ALA:HB2	3:L8:9:ILE:HD13	2.00	0.43
3:Q8:89:ILE:C	3:Q8:92:TYR:CE2	2.86	0.43
3:S8:3:ASP:H	3:S8:6:THR:HB	1.84	0.43
4:M9:9:GLN:CD	4:M9:9:GLN:C	2.87	0.43
4:M9:132:LEU:HD12	4:M9:137:ILE:HD12	2.01	0.43
4:M9:264:LYS:N	3:V9:119:ALA:HB2	2.34	0.43
3:J9:108:ARG:HA	11:a9:517:ALA:CA	2.40	0.43
12:X9:202:CYC:HC	12:X9:202:CYC:HMD3	1.78	0.43
11:a9:426:ARG:NH2	11:a9:496:ARG:NE	2.66	0.43
11:aA:667:THR:N	12:aA:901:CYC:HBA1	2.34	0.43
3:H1:65:ASP:OD1	3:H1:65:ASP:N	2.47	0.43
4:M1:80:PRO:C	3:X1:111:ASN:HD21	2.27	0.43
3:Z1:2:GLN:HA	3:Z1:6:THR:HG21	2.00	0.43
1:Z:19:LEU:HD11	8:e5:97:VAL:HG21	2.01	0.42
2:GA:38:MET:HE2	2:GA:38:MET:HB3	1.81	0.42
12:JA:201:CYC:HB	12:JA:201:CYC:HMA3	1.83	0.42
2:KA:99:ALA:HB2	3:LA:9:ILE:HD13	2.00	0.42
3:LA:2:GLN:HA	3:LA:6:THR:HG21	2.00	0.42
3:LA:116:THR:HG22	3:LA:117:TYR:N	2.34	0.42
4:MA:160:THR:O	3:VA:108:ARG:CG	2.59	0.42
4:MA:264:LYS:N	3:VA:119:ALA:HB2	2.34	0.42
2:QA:119:THR:HG23	3:TA:52:ILE:HG22	2.01	0.42
2:WA:138:VAL:O	2:WA:138:VAL:CG1	2.67	0.42
2:O1:59:VAL:O	2:O1:66:LEU:CD1	2.62	0.42
2:Q1:138:VAL:O	2:Q1:138:VAL:CG1	2.67	0.42
3:R1:3:ASP:H	3:R1:6:THR:HB	1.84	0.42
12:R1:201:CYC:OB	5:N1:54:LEU:HD11	2.14	0.42
2:S1:99:ALA:HB2	3:T1:9:ILE:HD13	2.00	0.42
2:A1:49:ASP:O	2:A1:50:SER:C	2.62	0.42
2:A1:99:ALA:HB2	3:B1:9:ILE:HD13	2.00	0.42
3:J2:2:GLN:HA	3:J2:6:THR:HG21	2.00	0.42
12:L2:202:CYC:HB	12:L2:202:CYC:HMA3	1.84	0.42
6:M2:259:THR:C	6:M2:261:LYS:H	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N2:49:LEU:O	7:N2:53:GLN:HB2	2.19	0.42
2:A3:34:ALA:CB	3:B3:31:VAL:HG11	2.38	0.42
12:B3:202:CYC:CBA	11:a9:684:ASN:CG	2.87	0.42
4:M3:233:GLU:HB2	3:V3:111:ASN:O	2.19	0.42
5:N3:59:ARG:HE	5:N3:59:ARG:HB2	1.69	0.42
2:Q3:138:VAL:O	2:Q3:138:VAL:CG1	2.67	0.42
3:R3:3:ASP:H	3:R3:6:THR:HB	1.84	0.42
12:U3:201:CYC:CMA	12:U3:201:CYC:NB	2.82	0.42
3:S4:9:ILE:HD13	2:R4:99:ALA:HB2	2.00	0.42
12:T4:201:CYC:CMA	12:T4:201:CYC:NB	2.81	0.42
3:W4:2:GLN:HA	3:W4:6:THR:HG21	2.01	0.42
12:H4:201:CYC:CBA	11:aA:261:SER:HB2	2.48	0.42
12:L4:201:CYC:HB	12:L4:201:CYC:HMA3	1.84	0.42
4:M4:128:ALA:CA	4:M4:142:PHE:CE1	3.01	0.42
2:N4:59:VAL:O	2:N4:66:LEU:CD1	2.62	0.42
2:P4:38:MET:HE3	3:Q4:24:LEU:CD2	2.49	0.42
3:Q4:88:ILE:O	3:Q4:89:ILE:C	2.62	0.42
8:M5:67:SER:HB3	8:M5:68:PRO:HD2	2.00	0.42
8:O5:95:GLY:HA3	8:O5:104:ILE:HD11	2.01	0.42
8:C5:95:GLY:HA3	8:C5:104:ILE:HD11	2.01	0.42
1:D5:5:ILE:CG2	1:D5:5:ILE:O	2.67	0.42
8:E5:102:THR:N	8:E5:103:PRO:HD2	2.34	0.42
1:F5:106:GLU:HG3	9:z5:58:THR:HG22	2.01	0.42
12:C1:201:CYC:CMA	12:C1:201:CYC:NB	2.81	0.42
1:R5:107:ARG:C	10:k5:520:ARG:HH12	2.22	0.42
1:V5:72:MET:HE2	1:V5:72:MET:HB3	1.87	0.42
8:W5:66:VAL:O	8:W5:66:VAL:CG1	2.66	0.42
9:i5:15:LYS:HD2	9:i5:16:ARG:N	2.34	0.42
9:i5:58:THR:HG22	9:i5:58:THR:O	2.19	0.42
10:j5:339:LYS:HB2	10:j5:399:TYR:CE1	2.54	0.42
10:j5:934:ALA:CB	1:J7:32:THR:HG22	2.31	0.42
10:j5:951:MET:CE	10:j5:955:LEU:CD1	2.97	0.42
10:j5:968:GLU:H	10:j5:968:GLU:HG2	1.61	0.42
10:j5:1140:TRP:O	11:aA:32:ARG:NH2	2.52	0.42
10:k5:190:LEU:HD11	12:k5:1201:CYC:HC	1.83	0.42
10:k5:247:ARG:HA	10:k5:248:PRO:HD3	1.67	0.42
10:k5:309:LEU:HD13	10:k5:342:LEU:CD1	2.46	0.42
10:k5:765:ASP:O	10:k5:769:THR:HG22	2.18	0.42
2:E6:38:MET:HE3	3:F6:24:LEU:CD2	2.49	0.42
3:F6:82:CYS:HA	12:F6:201:CYC:CHD	2.49	0.42
8:O7:95:GLY:HA3	8:O7:104:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S7:201:CYC:HB	12:S7:201:CYC:CMA	2.21	0.42
8:C7:130:VAL:CG1	8:C7:157:VAL:HG23	2.49	0.42
1:h7:37:ARG:NH1	1:h7:37:ARG:HG2	2.34	0.42
8:U7:130:VAL:CG1	8:U7:157:VAL:HG23	2.49	0.42
8:Y7:23:LEU:HD22	1:Z7:38:VAL:HG13	2.00	0.42
1:b7:37:ARG:NH1	1:b7:37:ARG:HG2	2.34	0.42
8:c7:48:GLU:O	8:c7:52:LYS:HG3	2.18	0.42
2:A8:59:VAL:O	2:A8:66:LEU:CD1	2.62	0.42
3:B8:108:ARG:O	4:M8:60:LYS:NZ	2.52	0.42
8:o7:30:VAL:CG2	1:p7:31:PHE:O	2.66	0.42
8:q7:67:SER:HB3	8:q7:68:PRO:HD2	2.00	0.42
1:t7:71:MEN:O	1:t7:77:ARG:HD3	2.18	0.42
8:u7:160:MET:HE2	8:u7:160:MET:HB2	1.87	0.42
9:w7:3:ARG:CZ	9:w7:67:VAL:HG13	2.48	0.42
9:x7:56:LEU:HA	9:x7:56:LEU:HD23	1.58	0.42
4:M8:99:VAL:HG22	3:Q8:108:ARG:HH12	1.81	0.42
3:O8:3:ASP:H	3:O8:6:THR:HB	1.84	0.42
3:D9:124:THR:HB	3:D9:171:ILE:O	2.18	0.42
3:F9:3:ASP:H	3:F9:6:THR:HB	1.84	0.42
12:R9:202:CYC:HB	12:R9:202:CYC:HMA3	1.84	0.42
3:T9:3:ASP:H	3:T9:6:THR:HB	1.84	0.42
12:U9:201:CYC:CMA	12:U9:201:CYC:NB	2.82	0.42
3:V9:3:ASP:H	3:V9:6:THR:HB	1.84	0.42
11:aA:50:LEU:HA	11:aA:50:LEU:HD12	1.60	0.42
11:aA:376:ALA:HB3	11:aA:503:THR:HG22	2.01	0.42
12:aA:902:CYC:HAB2	3:L1:88:ILE:HG21	2.01	0.42
3:J1:2:GLN:HA	3:J1:6:THR:HG21	2.00	0.42
4:M1:62:LYS:HD2	4:M1:62:LYS:HA	1.67	0.42
4:M1:140:ARG:NH1	4:M1:204:ILE:O	2.52	0.42
5:N1:37:HIS:H	12:T1:301:CYC:HMA3	1.84	0.42
12:T1:302:CYC:HB	12:T1:302:CYC:HMA3	1.84	0.42
2:A2:99:ALA:HB2	3:B2:9:ILE:HD13	2.00	0.42
2:E2:99:ALA:HB2	3:F2:9:ILE:HD13	2.00	0.42
1:Z:76:ARG:CG	10:j5:262:TYR:CD2	3.01	0.42
2:IA:37:SER:CA	2:IA:97:LEU:CD1	2.90	0.42
4:MA:263:PRO:CA	3:VA:119:ALA:CB	2.95	0.42
4:MA:273:ILE:HG22	2:WA:107:ASP:O	2.20	0.42
5:NA:61:LYS:HD2	12:TA:301:CYC:HBB3	1.98	0.42
2:OA:138:VAL:O	2:OA:138:VAL:CG1	2.67	0.42
2:O1:34:ALA:CB	3:P1:31:VAL:HG11	2.38	0.42
2:A3:138:VAL:O	2:A3:138:VAL:CG1	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C3:138:VAL:O	2:C3:138:VAL:CG1	2.67	0.42
4:M3:51:ARG:HH22	11:a9:694:ARG:HH12	1.53	0.42
5:N3:28:HIS:CD2	5:N3:28:HIS:H	2.38	0.42
12:X3:202:CYC:CMD	12:X3:202:CYC:NC	2.75	0.42
3:B1:86:MET:CG	12:B1:202:CYC:CBC	2.79	0.42
2:T4:38:MET:HE3	3:U4:24:LEU:CD2	2.49	0.42
2:V4:38:MET:HE3	3:W4:24:LEU:CD2	2.49	0.42
12:W4:202:CYC:HMD3	12:W4:202:CYC:NC	2.34	0.42
4:M4:19:MET:HE2	4:M4:59:ILE:CD1	2.46	0.42
4:M4:200:ILE:HD13	4:M4:200:ILE:HA	1.54	0.42
8:O5:11:ALA:CB	8:O5:18:LEU:CD1	2.96	0.42
5:Z4:37:HIS:N	5:Z4:37:HIS:ND1	2.66	0.42
1:B5:2:GLN:OE1	10:k5:551:MET:HG2	2.19	0.42
8:C5:130:VAL:CG1	8:C5:157:VAL:HG23	2.49	0.42
8:E5:17:TYR:CB	1:F5:45:SER:HB2	2.47	0.42
8:E5:116:TYR:HB3	8:E5:123:ILE:CG1	2.49	0.42
8:I5:130:VAL:CG1	8:I5:157:VAL:HG23	2.49	0.42
12:T5:201:CYC:C4B	10:j5:483:PHE:CE2	3.03	0.42
12:J6:201:CYC:HB	12:J6:201:CYC:HMA3	1.83	0.42
6:M6:68:THR:N	3:H6:14:LEU:CD2	2.82	0.42
7:N6:4:ASN:O	7:N6:5:VAL:C	2.61	0.42
10:j5:839:ARG:H	10:j5:839:ARG:HG2	1.60	0.42
10:k5:262:TYR:CD1	10:k5:262:TYR:C	2.97	0.42
10:k5:431:GLN:CA	10:k5:431:GLN:HE21	2.33	0.42
10:k5:1024:LYS:HD3	10:k5:1038:ARG:NH1	2.23	0.42
2:E6:138:VAL:O	2:E6:138:VAL:CG1	2.67	0.42
8:C7:11:ALA:CB	8:C7:18:LEU:CD1	2.96	0.42
8:C7:33:GLY:HA2	8:C7:36:ARG:HB2	2.01	0.42
8:I7:67:SER:HB3	8:I7:68:PRO:HD2	2.00	0.42
8:M7:64:ASP:HA	8:M7:67:SER:CB	2.48	0.42
8:g7:2:SER:O	8:g7:100:ASP:OD2	2.37	0.42
8:U7:2:SER:HA	8:U7:100:ASP:HB3	2.01	0.42
8:Y7:130:VAL:CG1	8:Y7:157:VAL:HG23	2.48	0.42
2:A8:49:ASP:O	2:A8:50:SER:C	2.62	0.42
8:m7:2:SER:HA	8:m7:100:ASP:HB3	2.01	0.42
8:o7:76:LYS:O	8:o7:80:LEU:HG	2.19	0.42
8:q7:49:ARG:CZ	3:H1:62:GLU:HB3	2.49	0.42
8:s7:95:GLY:HA3	8:s7:104:ILE:HD11	2.01	0.42
8:s7:102:THR:CB	8:s7:103:PRO:HD3	2.33	0.42
12:W8:202:CYC:HMD3	12:W8:202:CYC:NC	2.34	0.42
3:F8:106:GLU:HA	3:F8:110:LEU:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:H8:202:CYC:HB	12:H8:202:CYC:HMA3	1.83	0.42
2:I8:38:MET:HE3	3:J8:24:LEU:CD2	2.50	0.42
2:I8:99:ALA:HB2	3:J8:9:ILE:HD13	2.00	0.42
3:J8:2:GLN:HA	3:J8:6:THR:HG21	2.00	0.42
4:M8:56:MET:HE1	4:M8:66:VAL:CG1	2.48	0.42
4:M8:226:SER:HB3	3:Y8:84:ARG:HB2	2.01	0.42
4:M8:235:PHE:HB3	12:M8:301:CYC:HAA1	1.75	0.42
3:Q8:3:ASP:H	3:Q8:6:THR:HB	1.84	0.42
3:Q8:99:ALA:O	3:Q8:100:GLY:C	2.61	0.42
2:R8:38:MET:HE3	3:S8:24:LEU:CD2	2.50	0.42
12:R8:201:CYC:CMA	12:R8:201:CYC:NB	2.81	0.42
3:L9:86:MET:O	3:L9:134:MET:SD	2.77	0.42
4:M9:28:HIS:CD2	4:M9:35:THR:HG23	2.55	0.42
2:A9:59:VAL:O	2:A9:66:LEU:CD1	2.62	0.42
12:B9:201:CYC:HC	12:B9:201:CYC:HMD3	1.83	0.42
12:F9:302:CYC:HB	12:F9:302:CYC:HMA3	1.84	0.42
2:I9:37:SER:CA	2:I9:97:LEU:CD2	2.92	0.42
2:I9:38:MET:HE3	3:J9:24:LEU:CD2	2.50	0.42
12:J9:201:CYC:HB	12:J9:201:CYC:HMA3	1.83	0.42
12:J9:202:CYC:HC	12:J9:202:CYC:HMD3	1.82	0.42
2:S9:38:MET:HE3	3:T9:24:LEU:CD2	2.49	0.42
2:U9:138:VAL:O	2:U9:138:VAL:CG1	2.67	0.42
2:G1:99:ALA:HB2	3:H1:9:ILE:HD13	2.00	0.42
11:a9:327:SER:C	11:a9:329:ASN:H	2.27	0.42
11:aA:25:GLU:C	11:aA:27:PHE:N	2.77	0.42
11:aA:75:ALA:CB	11:aA:81:ASP:HB3	1.92	0.42
11:aA:776:TYR:HB2	12:H1:201:CYC:CMA	2.42	0.42
2:I1:99:ALA:HB2	3:J1:9:ILE:HD13	2.00	0.42
4:M1:233:GLU:HB2	3:V1:111:ASN:O	2.19	0.42
2:W1:38:MET:HE3	3:X1:24:LEU:CD2	2.49	0.42
2:A2:24:LEU:HB3	12:B2:201:CYC:HAB2	2.00	0.42
2:A2:49:ASP:O	2:A2:50:SER:C	2.62	0.42
1:Z:75:THR:C	10:j5:261:ILE:HD11	2.43	0.42
2:CA:38:MET:HE3	3:DA:24:LEU:CD2	2.49	0.42
2:CA:138:VAL:O	2:CA:138:VAL:CG1	2.67	0.42
2:GA:99:ALA:HB2	3:HA:9:ILE:HD13	2.00	0.42
3:JA:116:THR:OG1	11:aA:521:PHE:CB	2.55	0.42
3:LA:84:ARG:HE	11:aA:406:LEU:HD22	1.83	0.42
4:MA:23:PRO:HB2	4:MA:34:ASP:HB3	2.02	0.42
4:MA:28:HIS:HD2	4:MA:35:THR:CG2	2.33	0.42
4:MA:264:LYS:N	3:VA:119:ALA:HB1	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:WA:38:MET:HE3	3:XA:24:LEU:CD2	2.49	0.42
2:YA:138:VAL:O	2:YA:138:VAL:CG1	2.67	0.42
2:S1:138:VAL:O	2:S1:138:VAL:CG1	2.67	0.42
2:A1:138:VAL:O	2:A1:138:VAL:CG1	2.67	0.42
12:H3:202:CYC:HC	12:H3:202:CYC:HMD3	1.82	0.42
3:H2:14:LEU:CD2	6:M2:68:THR:N	2.82	0.42
3:B3:126:SER:HB3	12:B3:202:CYC:HMC2	2.01	0.42
2:E3:99:ALA:HB2	3:F3:9:ILE:HD13	2.00	0.42
3:F3:124:THR:HB	3:F3:171:ILE:O	2.18	0.42
3:B4:127:VAL:HG22	12:B4:202:CYC:CMC	2.49	0.42
12:B4:202:CYC:OB	4:M4:58:TYR:HD1	2.02	0.42
2:C4:38:MET:HE3	3:D4:24:LEU:CD2	2.49	0.42
3:L3:88:ILE:HG21	12:L3:202:CYC:HAB2	2.01	0.42
4:M3:9:GLN:CD	4:M3:9:GLN:C	2.87	0.42
4:M3:37:GLU:HG3	4:M3:38:PRO:HD2	2.00	0.42
4:M3:80:PRO:C	3:X3:111:ASN:HD21	2.27	0.42
4:M3:246:ALA:HA	12:X3:201:CYC:HBB3	1.99	0.42
2:W3:99:ALA:HB2	3:X3:9:ILE:HD13	2.00	0.42
2:Y3:138:VAL:O	2:Y3:138:VAL:CG1	2.67	0.42
12:B1:201:CYC:HB	12:B1:201:CYC:HMA3	1.84	0.42
3:S4:120:LEU:CD1	12:S4:202:CYC:C4D	2.96	0.42
2:G4:38:MET:HE3	3:H4:24:LEU:CD2	2.49	0.42
3:H4:111:ASN:ND2	11:aA:291:TYR:CE1	2.82	0.42
2:I4:38:MET:HE3	3:J4:24:LEU:CD2	2.50	0.42
2:I4:99:ALA:HB2	3:J4:9:ILE:HD13	2.00	0.42
4:M4:42:SER:O	4:M4:42:SER:OG	2.29	0.42
4:M4:273:ILE:CD1	2:X4:108:TYR:CE1	2.99	0.42
1:L5:119:LEU:HD21	10:j5:546:PHE:CE2	2.50	0.42
8:A5:12:ASP:OD2	1:B5:91:TYR:HE1	2.02	0.42
12:B5:201:CYC:HC	12:B5:201:CYC:CMD	2.13	0.42
8:C5:2:SER:O	8:C5:100:ASP:OD2	2.37	0.42
8:E5:67:SER:HB3	8:E5:68:PRO:HD2	2.00	0.42
8:G5:64:ASP:O	8:G5:65:VAL:C	2.61	0.42
1:H5:107:ARG:CD	9:i5:21:ARG:HD3	2.48	0.42
1:J5:1:MET:HB2	1:J5:1:MET:HE3	1.34	0.42
8:Q5:116:TYR:CB	8:Q5:123:ILE:HG12	2.47	0.42
8:U5:48:GLU:O	6:M6:34:ARG:NH1	2.52	0.42
8:U5:82:LEU:CD1	6:M6:34:ARG:CB	2.98	0.42
8:a5:2:SER:HA	8:a5:100:ASP:HB3	2.01	0.42
2:K6:138:VAL:O	2:K6:138:VAL:CG1	2.67	0.42
6:M6:43:TRP:CZ3	8:c7:52:LYS:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M6:277:GLY:HA3	1:d7:62:TYR:HB2	2.00	0.42
10:j5:722:ILE:CD1	8:K7:82:LEU:HD12	2.47	0.42
10:j5:1024:LYS:HD3	10:j5:1038:ARG:NH1	2.23	0.42
10:j5:1069:ARG:HB2	10:j5:1070:ALA:H	1.67	0.42
10:j5:1102:TYR:O	10:j5:1102:TYR:CD1	2.72	0.42
10:j5:1136:ILE:HG23	10:j5:1136:ILE:HD12	1.69	0.42
10:k5:89:LYS:HE2	10:k5:89:LYS:HB2	1.92	0.42
10:k5:395:SER:HA	10:k5:400:ALA:HB2	2.00	0.42
10:k5:750:ARG:HG2	10:k5:750:ARG:NH1	2.31	0.42
10:k5:848:ILE:HD13	10:k5:848:ILE:HG21	1.63	0.42
10:k5:931:VAL:CG1	1:D7:29:ALA:CB	2.67	0.42
10:k5:1008:PHE:CD1	12:p7:201:CYC:CBB	3.03	0.42
10:k5:1118:THR:CB	12:k5:1204:CYC:HBA1	2.49	0.42
8:O7:2:SER:O	8:O7:100:ASP:OD2	2.37	0.42
8:I7:33:GLY:HA2	8:I7:36:ARG:HB2	2.01	0.42
1:J7:71:MEN:O	1:J7:77:ARG:HD3	2.18	0.42
1:L7:49:THR:HG22	8:U7:161:GLN:CD	2.44	0.42
8:M7:49:ARG:HD2	11:a9:550:PHE:CD1	2.37	0.42
8:k7:76:LYS:NZ	11:a9:604:ALA:CB	2.72	0.42
8:U7:2:SER:O	8:U7:100:ASP:OD2	2.37	0.42
2:A8:25:GLN:HG3	2:K8:33:ARG:HG2	1.99	0.42
3:B8:3:ASP:H	3:B8:6:THR:HB	1.84	0.42
2:E8:138:VAL:O	2:E8:138:VAL:CG1	2.67	0.42
8:m7:11:ALA:CB	8:m7:18:LEU:CD1	2.96	0.42
8:o7:6:LYS:HD3	8:o7:6:LYS:HA	1.68	0.42
8:o7:90:ARG:CG	1:p7:18:TYR:CE1	3.02	0.42
8:s7:2:SER:HA	8:s7:100:ASP:HB3	2.01	0.42
3:U8:114:LYS:HE3	4:M8:13:LYS:NZ	2.21	0.42
12:V8:201:CYC:CMA	12:V8:201:CYC:NB	2.82	0.42
3:F8:107:ASP:OD1	3:F8:108:ARG:HG3	2.20	0.42
12:F8:201:CYC:HB	12:F8:201:CYC:HMA3	1.84	0.42
2:I8:14:SER:CA	11:a9:170:PHE:CE2	3.02	0.42
12:I8:201:CYC:CMA	12:I8:201:CYC:NB	2.82	0.42
3:L8:109:CYS:C	12:a9:901:CYC:HBB2	2.44	0.42
4:M8:28:HIS:CD2	4:M8:35:THR:HG23	2.54	0.42
4:M8:95:ALA:CB	5:Z8:38:GLU:HG3	2.36	0.42
4:M8:226:SER:HG	3:Y8:84:ARG:C	2.28	0.42
3:O8:2:GLN:HA	3:O8:6:THR:HG21	2.01	0.42
2:P8:138:VAL:O	2:P8:138:VAL:CG1	2.67	0.42
3:L9:84:ARG:NH2	11:a9:406:LEU:HD23	2.34	0.42
4:M9:28:HIS:HD2	4:M9:35:THR:CG2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:250:THR:O	4:M9:250:THR:HG22	2.19	0.42
2:Q9:38:MET:HE3	3:R9:24:LEU:CD2	2.50	0.42
3:J9:2:GLN:HA	3:J9:6:THR:HG21	2.00	0.42
3:J9:116:THR:OG1	11:a9:521:PHE:CB	2.54	0.42
2:U9:38:MET:HE3	3:V9:24:LEU:CD2	2.49	0.42
3:V9:108:ARG:CG	3:V9:108:ARG:HH21	2.32	0.42
3:X9:65:ASP:OD1	3:X9:65:ASP:N	2.47	0.42
12:X9:202:CYC:NC	12:X9:202:CYC:HMD3	2.35	0.42
11:a9:377:VAL:CG1	11:a9:390:ALA:HB3	2.48	0.42
11:a9:470:ILE:O	11:a9:470:ILE:HG22	2.19	0.42
11:a9:586:LEU:HD13	11:a9:586:LEU:HA	1.43	0.42
11:aA:56:ILE:HD12	11:aA:612:TYR:CZ	2.54	0.42
11:aA:102:GLN:OE1	11:aA:102:GLN:HA	2.19	0.42
11:aA:708:HIS:ND1	11:aA:709:CYS:SG	2.92	0.42
4:M1:245:ASP:O	12:X1:201:CYC:HBB3	2.19	0.42
3:X1:2:GLN:HA	3:X1:6:THR:HG21	2.00	0.42
2:C2:38:MET:HE3	3:D2:24:LEU:CD2	2.49	0.42
3:HA:3:ASP:H	3:HA:6:THR:HB	1.85	0.42
2:KA:38:MET:HE3	3:LA:24:LEU:CD2	2.50	0.42
2:SA:99:ALA:HB2	3:TA:9:ILE:HD13	2.00	0.42
3:VA:2:GLN:HA	3:VA:6:THR:HG21	2.00	0.42
3:VA:108:ARG:HG2	3:VA:108:ARG:HH21	1.84	0.42
2:Q1:38:MET:HE3	3:R1:24:LEU:CD2	2.50	0.42
12:Q1:201:CYC:CMA	12:Q1:201:CYC:NB	2.82	0.42
2:I3:38:MET:HE3	3:J3:24:LEU:CD2	2.50	0.42
2:I3:138:VAL:O	2:I3:138:VAL:CG1	2.67	0.42
3:J3:2:GLN:HA	3:J3:6:THR:HG21	2.00	0.42
12:J3:202:CYC:HC	12:J3:202:CYC:HMD3	1.83	0.42
2:K3:38:MET:HE3	3:L3:24:LEU:CD2	2.50	0.42
12:H2:201:CYC:HC	12:H2:201:CYC:HMD3	1.83	0.42
3:J2:108:ARG:NE	6:M2:155:ASN:C	2.67	0.42
2:K2:99:ALA:HB2	3:L2:9:ILE:HD13	2.00	0.42
3:L2:3:ASP:H	3:L2:6:THR:HB	1.85	0.42
12:B3:201:CYC:HB	12:B3:201:CYC:HMA3	1.84	0.42
3:D3:124:THR:HB	3:D3:171:ILE:O	2.18	0.42
12:E3:201:CYC:CMA	12:E3:201:CYC:NB	2.81	0.42
5:N3:1:MET:HB2	5:N3:3:VAL:HG23	1.91	0.42
5:N3:37:HIS:H	12:T3:301:CYC:HMA3	1.84	0.42
5:N3:53:LEU:C	5:N3:53:LEU:CD2	2.92	0.42
12:O3:201:CYC:CMA	12:O3:201:CYC:NB	2.81	0.42
2:S3:38:MET:HE3	3:T3:24:LEU:CD2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S3:81:LYS:NZ	12:S3:201:CYC:O1A	2.51	0.42
2:T4:138:VAL:O	2:T4:138:VAL:CG1	2.67	0.42
2:V4:138:VAL:O	2:V4:138:VAL:CG1	2.67	0.42
3:F4:3:ASP:H	3:F4:6:THR:HB	1.85	0.42
4:M4:28:HIS:HD2	4:M4:35:THR:CG2	2.33	0.42
3:O4:104:VAL:CG2	5:Z4:61:LYS:CE	2.96	0.42
12:O4:201:CYC:CMA	12:O4:201:CYC:HB	2.25	0.42
1:L5:79:ALA:CB	8:G5:114:GLU:CB	2.91	0.42
1:N5:53:LYS:CE	8:O5:120:GLN:NE2	2.69	0.42
8:O5:76:LYS:HG2	8:O5:77:MET:CE	2.37	0.42
2:X4:38:MET:HE3	3:Y4:24:LEU:CD2	2.50	0.42
2:C1:38:MET:HE3	3:D1:24:LEU:CD2	2.50	0.42
8:Q5:122:PRO:HD2	12:Q5:201:CYC:OC	2.19	0.42
8:S5:107:ILE:HG21	1:T5:13:ASP:OD1	2.19	0.42
8:U5:78:THR:HG21	6:M6:35:GLY:O	2.19	0.42
8:W5:122:PRO:HD2	12:W5:201:CYC:OC	2.19	0.42
8:a5:67:SER:HB3	8:a5:68:PRO:HD2	2.00	0.42
3:L6:70:GLY:HA2	6:M6:68:THR:H	1.84	0.42
6:M6:127:SER:CA	3:F6:84:ARG:NH1	2.80	0.42
10:j5:18:ARG:HH12	10:j5:268:SER:CB	2.31	0.42
10:j5:190:LEU:CD2	10:j5:194:CYS:SG	3.08	0.42
10:j5:277:ILE:CA	10:j5:284:PRO:HB3	2.49	0.42
10:j5:414:ILE:HG21	10:j5:414:ILE:HD13	1.72	0.42
10:j5:431:GLN:HA	10:j5:431:GLN:HE21	1.84	0.42
10:j5:471:PRO:O	10:j5:501:ILE:CG1	2.57	0.42
10:j5:528:GLU:O	10:j5:528:GLU:CG	2.66	0.42
10:j5:1118:THR:CG2	1:t7:83:ARG:NH1	2.77	0.42
10:j5:1146:THR:HA	1:v7:77:ARG:NH1	2.34	0.42
10:j5:1151:GLN:CA	1:v7:122:PRO:CB	2.74	0.42
10:k5:262:TYR:CD1	10:k5:262:TYR:O	2.73	0.42
10:k5:284:PRO:HB2	10:k5:286:VAL:N	2.34	0.42
10:k5:631:HIS:HB2	10:k5:664:MET:HE1	2.01	0.42
10:k5:1067:LEU:HD13	10:k5:1101:GLU:CG	2.41	0.42
10:k5:1097:VAL:O	10:k5:1097:VAL:CG1	2.68	0.42
12:k5:1204:CYC:CMA	12:k5:1204:CYC:NB	2.74	0.42
3:B6:3:ASP:H	3:B6:6:THR:HB	1.85	0.42
8:Q7:151:PHE:CZ	8:C7:20:PRO:HB3	2.55	0.42
8:I7:95:GLY:HA3	8:I7:104:ILE:HD11	2.01	0.42
8:i7:27:LYS:NZ	8:s7:148:GLU:OE1	2.45	0.42
8:k7:67:SER:O	8:k7:68:PRO:C	2.63	0.42
12:V7:201:CYC:OB	9:w7:21:ARG:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W7:122:PRO:HD2	12:W7:201:CYC:OC	2.19	0.42
8:Y7:37:LEU:HD22	1:Z7:24:LEU:HD22	2.00	0.42
1:Z7:67:ARG:HH12	11:a9:307:ARG:CB	2.33	0.42
8:c7:50:ILE:HD13	8:c7:137:ALA:CB	2.46	0.42
8:c7:67:SER:O	8:c7:68:PRO:C	2.62	0.42
8:o7:51:VAL:O	8:o7:51:VAL:HG12	2.16	0.42
8:o7:80:LEU:CD1	12:o7:201:CYC:C3D	2.97	0.42
2:T8:138:VAL:O	2:T8:138:VAL:CG1	2.67	0.42
12:U8:202:CYC:HB	12:U8:202:CYC:HMA3	1.84	0.42
2:X8:38:MET:HE2	2:X8:38:MET:HB3	1.81	0.42
3:F8:111:ASN:CG	3:F8:112:GLY:N	2.77	0.42
12:J8:202:CYC:HMD3	12:J8:202:CYC:NC	2.34	0.42
2:K8:38:MET:HE3	3:L8:24:LEU:CD2	2.50	0.42
12:L8:201:CYC:HB	12:L8:201:CYC:HMA3	1.84	0.42
4:M8:28:HIS:HD2	4:M8:35:THR:CG2	2.33	0.42
4:M8:29:PRO:HG3	11:a9:226:PHE:O	2.19	0.42
4:M8:140:ARG:CD	4:M8:214:GLY:O	2.54	0.42
3:Q8:84:ARG:HD2	5:Z8:31:TRP:HE1	1.82	0.42
12:S8:201:CYC:HB	12:S8:201:CYC:HMA3	1.83	0.42
12:L9:201:CYC:HAB1	2:K9:24:LEU:HB3	1.96	0.42
4:M9:232:VAL:HG11	3:X9:111:ASN:C	2.40	0.42
12:P9:202:CYC:NC	12:P9:202:CYC:HMD3	2.34	0.42
3:Y8:102:ALA:CB	3:Y8:105:LEU:HB3	2.47	0.42
3:Y8:114:LYS:O	3:Y8:118:VAL:HB	2.19	0.42
2:A9:138:VAL:O	2:A9:138:VAL:CG1	2.67	0.42
2:E9:17:ARG:CZ	2:I9:2:LYS:NZ	2.82	0.42
2:W9:38:MET:HE3	3:X9:24:LEU:CD2	2.49	0.42
2:G1:138:VAL:O	2:G1:138:VAL:CG1	2.67	0.42
12:G1:201:CYC:CMA	12:G1:201:CYC:NB	2.82	0.42
11:a9:56:ILE:HD12	11:a9:612:TYR:CZ	2.54	0.42
11:a9:816:LEU:HD23	11:a9:816:LEU:C	2.41	0.42
11:aA:365:LYS:HA	11:aA:365:LYS:HD3	1.35	0.42
11:aA:377:VAL:CG1	11:aA:390:ALA:HB3	2.48	0.42
11:aA:446:ALA:C	11:aA:447:SER:O	2.59	0.42
11:aA:470:ILE:O	11:aA:470:ILE:HG22	2.19	0.42
3:J1:3:ASP:H	3:J1:6:THR:HB	1.85	0.42
5:N1:53:LEU:C	5:N1:53:LEU:CD2	2.92	0.42
12:U1:201:CYC:CMA	12:U1:201:CYC:NB	2.82	0.42
3:X1:3:ASP:H	3:X1:6:THR:HB	1.85	0.42
12:Z1:201:CYC:HB	12:Z1:201:CYC:HMA3	1.84	0.42
3:B2:2:GLN:HA	3:B2:6:THR:HG21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F2:3:ASP:H	3:F2:6:THR:HB	1.85	0.42
3:F2:78:ARG:HG2	12:F2:201:CYC:CAD	2.48	0.42
2:AA:34:ALA:HB3	3:BA:31:VAL:CG1	2.39	0.42
2:CA:99:ALA:HB2	3:DA:9:ILE:HD13	2.00	0.42
2:IA:138:VAL:O	2:IA:138:VAL:CG1	2.67	0.42
3:JA:2:GLN:HA	3:JA:6:THR:HG21	2.00	0.42
12:LA:202:CYC:C1B	11:aA:404:TYR:CZ	3.02	0.42
4:MA:132:LEU:HD12	4:MA:137:ILE:HD12	2.01	0.42
2:SA:138:VAL:O	2:SA:138:VAL:CG1	2.67	0.42
12:SA:201:CYC:CMA	12:SA:201:CYC:NB	2.81	0.42
12:TA:302:CYC:NC	12:TA:302:CYC:HMD3	2.34	0.42
2:O1:138:VAL:O	2:O1:138:VAL:CG1	2.67	0.42
2:Q1:99:ALA:HB2	3:R1:9:ILE:HD13	2.00	0.42
3:R1:120:LEU:CD2	5:N1:16:PHE:CE1	3.02	0.42
3:L2:77:ARG:NH2	6:M2:70:GLU:CG	2.77	0.42
2:A4:138:VAL:O	2:A4:138:VAL:CG1	2.67	0.42
12:C4:201:CYC:CMA	12:C4:201:CYC:NB	2.82	0.42
2:Q3:38:MET:HE3	3:R3:24:LEU:CD2	2.50	0.42
3:R3:2:GLN:HA	3:R3:6:THR:HG21	2.01	0.42
2:S3:138:VAL:O	2:S3:138:VAL:CG1	2.67	0.42
12:B1:202:CYC:HBA1	11:aA:680:SER:O	2.19	0.42
2:N4:138:VAL:O	2:N4:138:VAL:CG1	2.67	0.42
12:B5:201:CYC:CBB	9:z5:21:ARG:CB	2.97	0.42
8:C5:2:SER:HA	8:C5:100:ASP:HB3	2.01	0.42
1:D5:3:ASP:HB2	1:D5:4:ALA:H	1.48	0.42
1:J5:76:ARG:HH12	9:i5:67:VAL:HG11	1.84	0.42
8:Q5:17:TYR:CD2	1:R5:93:THR:OG1	2.46	0.42
8:S5:67:SER:HB3	8:S5:68:PRO:HD2	2.00	0.42
8:U5:82:LEU:HD12	6:M6:34:ARG:CB	2.49	0.42
8:Y5:67:SER:HB3	8:Y5:68:PRO:HD2	2.00	0.42
3:L6:132:GLN:OE1	1:d7:15:GLN:OE1	2.36	0.42
6:M6:179:GLY:HA2	6:M6:182:GLN:HG2	2.01	0.42
6:M6:278:ARG:NH2	1:d7:64:ASP:CG	2.64	0.42
9:i5:9:ALA:CA	9:i5:50:LYS:O	2.63	0.42
10:j5:191:GLU:HB3	10:j5:196:ILE:CD1	2.49	0.42
10:j5:262:TYR:CD1	10:j5:262:TYR:O	2.73	0.42
10:j5:277:ILE:CB	10:j5:284:PRO:CA	2.98	0.42
10:k5:1064:LYS:HD2	10:k5:1065:HIS:HA	2.01	0.42
2:C6:99:ALA:HB2	3:D6:9:ILE:HD13	2.00	0.42
12:E6:201:CYC:CMA	12:E6:201:CYC:NB	2.82	0.42
2:G6:38:MET:HE3	3:H6:24:LEU:CD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D1:2:GLN:HA	3:D1:6:THR:HG21	2.00	0.42
8:Q7:20:PRO:HG2	8:C7:101:VAL:HG21	2.02	0.42
1:R7:72:MET:HE2	1:R7:72:MET:HB3	1.87	0.42
8:g7:33:GLY:HA2	8:g7:36:ARG:HB2	2.01	0.42
8:i7:49:ARG:CZ	8:i7:140:LEU:HD22	2.49	0.42
8:U7:22:GLU:O	8:U7:24:ASP:N	2.52	0.42
8:Y7:4:LEU:CD2	8:Y7:26:ILE:HD13	2.47	0.42
8:a7:95:GLY:HA3	8:a7:104:ILE:HD11	2.01	0.42
12:B8:202:CYC:CMA	12:B8:202:CYC:HB	2.25	0.42
12:B8:202:CYC:OB	4:M8:58:TYR:HD1	2.02	0.42
8:m7:95:GLY:HA3	8:m7:104:ILE:HD11	2.01	0.42
8:m7:130:VAL:CG1	8:m7:157:VAL:HG23	2.48	0.42
1:p7:68:PRO:HB2	11:a9:42:ARG:HD3	2.01	0.42
2:V8:138:VAL:O	2:V8:138:VAL:CG1	2.67	0.42
3:W8:3:ASP:H	3:W8:6:THR:HB	1.85	0.42
2:N8:14:SER:HA	5:Z8:62:ARG:HD2	2.02	0.42
12:O8:201:CYC:HC	12:O8:201:CYC:HMD3	1.82	0.42
5:N9:1:MET:CE	5:N9:1:MET:CA	2.85	0.42
3:Y8:105:LEU:HB3	3:Y8:106:GLU:H	1.67	0.42
5:Z8:53:LEU:C	5:Z8:53:LEU:CD2	2.92	0.42
5:Z8:56:GLU:OE2	5:Z8:59:ARG:NH2	2.51	0.42
3:B9:107:ASP:HB3	11:a9:382:ASN:HB3	2.02	0.42
3:Z9:2:GLN:HA	3:Z9:6:THR:HG21	2.00	0.42
11:a9:55:ASP:HB3	11:a9:612:TYR:CG	2.47	0.42
11:a9:392:ILE:O	11:a9:392:ILE:HG22	2.19	0.42
11:a9:412:VAL:H	11:a9:412:VAL:HG22	1.57	0.42
11:aA:320:ASP:OD1	11:aA:320:ASP:N	2.50	0.42
11:aA:582:MET:O	11:aA:582:MET:CG	2.68	0.42
3:H1:108:ARG:O	12:H1:201:CYC:CBB	2.60	0.42
12:H1:201:CYC:HMD3	12:H1:201:CYC:HC	1.82	0.42
12:J1:201:CYC:HB	12:J1:201:CYC:HMA3	1.83	0.42
4:M1:9:GLN:CD	4:M1:9:GLN:C	2.87	0.42
4:M1:190:ARG:HE	4:M1:190:ARG:HB2	1.71	0.42
12:V1:202:CYC:HB	12:V1:202:CYC:HMA3	1.84	0.42
2:Y1:99:ALA:HB2	3:Z1:9:ILE:HD13	2.00	0.42
3:D2:124:THR:HB	3:D2:171:ILE:O	2.18	0.42
2:E2:38:MET:HE2	2:E2:38:MET:HB3	1.81	0.42
1:Z:72:MET:HE2	1:Z:72:MET:HB3	1.87	0.42
3:HA:125:ARG:NH2	8:S7:41:GLN:HG2	2.34	0.42
2:KA:19:LEU:O	3:LA:45:THR:OG1	2.27	0.42
2:KA:22:THR:O	2:KA:22:THR:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:NA:22:LEU:HD21	5:NA:26:LEU:CD1	2.15	0.42
5:NA:28:HIS:CD2	5:NA:28:HIS:H	2.38	0.42
2:UA:38:MET:HE3	3:VA:24:LEU:CD2	2.49	0.42
2:YA:99:ALA:HB2	3:ZA:9:ILE:HD13	2.00	0.42
2:O1:99:ALA:HB2	3:P1:9:ILE:HD13	2.00	0.42
2:K3:38:MET:HE2	2:K3:38:MET:HB3	1.81	0.42
12:K3:201:CYC:CMA	12:K3:201:CYC:NB	2.81	0.42
2:I2:38:MET:HE3	3:J2:24:LEU:CD2	2.50	0.42
2:K2:138:VAL:O	2:K2:138:VAL:CG1	2.67	0.42
6:M2:147:ASP:OD2	2:E2:15:GLN:NE2	2.53	0.42
2:E3:38:MET:HE3	3:F3:24:LEU:CD2	2.50	0.42
3:F3:3:ASP:H	3:F3:6:THR:HB	1.85	0.42
3:Z3:9:ILE:HD13	2:Y3:99:ALA:HB2	2.00	0.42
4:M3:7:SER:C	4:M3:14:LEU:HD13	2.08	0.42
4:M3:28:HIS:HD2	4:M3:35:THR:CG2	2.33	0.42
2:O3:30:ARG:NH1	3:P3:5:PHE:CE1	2.88	0.42
12:R3:202:CYC:HMD3	12:R3:202:CYC:NC	2.35	0.42
2:E4:1:MET:H2	4:M4:10:ARG:HE	1.67	0.42
2:E4:38:MET:HE3	3:F4:24:LEU:CD2	2.50	0.42
4:M4:225:LYS:HD2	4:M4:225:LYS:HA	1.84	0.42
4:M4:262:ASP:OD1	4:M4:263:PRO:CD	2.68	0.42
12:O4:201:CYC:HC	12:O4:201:CYC:HMD3	1.82	0.42
3:Q4:84:ARG:HE	5:Z4:29:HIS:HD2	1.66	0.42
2:X4:99:ALA:HB2	3:Y4:9:ILE:HD13	2.00	0.42
5:Z4:39:PRO:HG3	12:Z4:301:CYC:CHD	2.49	0.42
8:E5:151:PHE:CE1	1:P5:42:ALA:CB	3.02	0.42
1:F5:106:GLU:CG	9:z5:58:THR:CG2	2.98	0.42
12:G5:201:CYC:HB	12:G5:201:CYC:CMA	2.21	0.42
12:H5:201:CYC:HMD1	12:H5:201:CYC:NC	2.09	0.42
8:c5:120:GLN:CD	1:f5:53:LYS:NZ	2.78	0.42
1:f5:30:TYR:HE2	10:j5:47:PHE:CE1	2.37	0.42
8:Q5:121:THR:HG23	12:Q5:201:CYC:NC	2.35	0.42
8:a5:33:GLY:HA2	8:a5:36:ARG:HB2	2.01	0.42
7:N6:11:TRP:HE1	2:E6:107:ASP:CA	2.31	0.42
10:j5:1001:TYR:CE1	10:j5:1016:LEU:HD11	2.54	0.42
10:j5:1097:VAL:O	10:j5:1097:VAL:CG1	2.68	0.42
10:k5:44:ASP:O	10:k5:48:GLY:N	2.48	0.42
10:k5:651:ILE:O	10:k5:651:ILE:CG2	2.65	0.42
10:k5:1053:TYR:CA	1:l7:106:GLU:O	2.67	0.42
10:k5:1102:TYR:CD1	10:k5:1102:TYR:O	2.72	0.42
12:C6:201:CYC:CMA	12:C6:201:CYC:NB	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P7:75:THR:HB	8:Q7:112:VAL:CA	2.50	0.42
8:Q7:121:THR:HG23	12:Q7:201:CYC:NC	2.35	0.42
8:G7:120:GLN:CD	1:L7:53:LYS:NZ	2.78	0.42
1:h7:24:LEU:HD23	1:h7:24:LEU:HA	1.70	0.42
8:i7:17:TYR:OH	1:j7:86:ASP:OD1	2.22	0.42
8:i7:20:PRO:HD2	8:s7:155:TYR:CZ	2.52	0.42
8:U7:95:GLY:HA3	8:U7:104:ILE:HD11	2.01	0.42
8:c7:92:VAL:HG13	8:c7:152:TYR:HB2	1.99	0.42
8:c7:156:LEU:O	8:c7:160:MET:HG3	2.19	0.42
8:e7:67:SER:O	8:e7:68:PRO:C	2.63	0.42
8:q7:79:ALA:O	11:aA:49:TRP:HB3	2.20	0.42
3:U8:2:GLN:HA	3:U8:6:THR:HG21	2.00	0.42
3:H8:111:ASN:OD1	11:a9:291:TYR:HE1	1.96	0.42
2:I8:138:VAL:O	2:I8:138:VAL:CG1	2.67	0.42
4:M8:70:SER:O	4:M8:70:SER:OG	2.36	0.42
4:M8:126:THR:HB	12:M8:302:CYC:CBA	2.46	0.42
4:M8:268:ARG:O	4:M8:269:SER:O	2.27	0.42
12:M8:301:CYC:CAC	3:Y8:127:VAL:HG22	2.48	0.42
2:R8:138:VAL:O	2:R8:138:VAL:CG1	2.67	0.42
3:L9:51:ILE:CG2	3:L9:90:LEU:HD13	2.45	0.42
4:M9:271:ARG:NH2	3:V9:78:ARG:NH1	2.68	0.42
5:N9:53:LEU:C	5:N9:53:LEU:CD2	2.92	0.42
2:Q9:38:MET:HE2	2:Q9:38:MET:HB3	1.81	0.42
5:Z8:37:HIS:ND1	12:Z8:301:CYC:C4B	2.79	0.42
12:C9:201:CYC:CMA	12:C9:201:CYC:NB	2.81	0.42
2:I9:19:LEU:CD1	3:J9:41:VAL:CG1	2.98	0.42
3:T9:2:GLN:HA	3:T9:6:THR:HG21	2.00	0.42
3:X9:3:ASP:H	3:X9:6:THR:HB	1.85	0.42
3:Z9:3:ASP:H	3:Z9:6:THR:HB	1.85	0.42
12:Z9:202:CYC:HB	12:Z9:202:CYC:CMA	2.25	0.42
11:a9:102:GLN:OE1	11:a9:102:GLN:HA	2.19	0.42
11:a9:426:ARG:HD2	11:a9:490:ILE:HG22	1.98	0.42
11:a9:538:ARG:HB3	11:a9:538:ARG:HE	1.58	0.42
11:a9:582:MET:O	11:a9:582:MET:CG	2.68	0.42
11:aA:731:GLN:HE21	12:aA:902:CYC:HAA1	1.83	0.42
3:H1:78:ARG:HG2	12:H1:201:CYC:HMD2	2.01	0.42
2:I1:38:MET:HE3	3:J1:24:LEU:CD2	2.50	0.42
4:M1:268:ARG:CB	3:V1:111:ASN:HD21	2.32	0.42
3:V1:124:THR:HB	3:V1:171:ILE:O	2.18	0.42
1:A:62:TYR:HA	10:k5:155:LYS:NZ	2.35	0.42
1:A:71:MEN:O	1:A:77:ARG:HD3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FA:3:ASP:H	3:FA:6:THR:HB	1.84	0.42
2:IA:24:LEU:HB3	12:JA:201:CYC:CAB	2.47	0.42
5:NA:53:LEU:C	5:NA:53:LEU:CD2	2.92	0.42
2:OA:25:GLN:HG3	2:YA:33:ARG:HG2	1.99	0.42
2:SA:38:MET:HE3	3:TA:24:LEU:CD2	2.49	0.42
3:TA:28:THR:HG22	2:X4:67:THR:HG1	1.70	0.42
12:VA:202:CYC:HMD3	12:VA:202:CYC:NC	2.35	0.42
12:WA:201:CYC:CMA	12:WA:201:CYC:NB	2.81	0.42
2:YA:38:MET:HE3	3:ZA:24:LEU:CD2	2.50	0.42
3:J3:121:GLY:CA	11:a9:804:ARG:HH21	2.23	0.42
2:G2:138:VAL:O	2:G2:138:VAL:CG1	2.67	0.42
12:J2:202:CYC:HC	12:J2:202:CYC:HMD3	1.83	0.42
6:M2:32:MET:HE1	8:O5:75:GLU:OE1	2.19	0.42
2:A3:30:ARG:NH1	3:B3:5:PHE:CE1	2.88	0.42
3:B3:3:ASP:H	3:B3:6:THR:HB	1.84	0.42
3:B3:127:VAL:HG23	12:B3:202:CYC:CMC	2.47	0.42
5:N3:34:LEU:HD22	5:N3:34:LEU:HA	1.71	0.42
12:Q3:201:CYC:CMA	12:Q3:201:CYC:NB	2.82	0.42
2:U3:38:MET:HE3	3:V3:24:LEU:CD2	2.49	0.42
12:F4:201:CYC:NC	12:F4:201:CYC:HMD3	2.35	0.42
2:I4:138:VAL:O	2:I4:138:VAL:CG1	2.67	0.42
3:J4:3:ASP:H	3:J4:6:THR:HB	1.85	0.42
12:J4:202:CYC:HB	12:J4:202:CYC:HMA3	1.84	0.42
2:K4:99:ALA:HB2	3:L4:9:ILE:HD13	2.00	0.42
3:L4:3:ASP:H	3:L4:6:THR:HB	1.85	0.42
4:M4:51:ARG:HH11	4:M4:51:ARG:CG	2.27	0.42
8:K5:101:VAL:O	8:K5:102:THR:C	2.57	0.42
8:I5:16:ARG:CG	8:I5:16:ARG:NH1	2.77	0.42
12:P5:201:CYC:HC	12:P5:201:CYC:CMD	2.13	0.42
8:Q5:16:ARG:HA	1:R5:90:ARG:CG	2.44	0.42
8:Q5:67:SER:O	8:Q5:68:PRO:C	2.63	0.42
1:R5:1:MET:N	10:k5:504:ASP:OD2	2.53	0.42
1:R5:106:GLU:HG3	10:k5:505:VAL:HG22	2.02	0.42
8:W5:16:ARG:HA	1:X5:90:ARG:CG	2.44	0.42
8:Y5:120:GLN:CD	1:b5:53:LYS:NZ	2.78	0.42
1:b5:6:THR:HG21	10:k5:22:THR:CG2	2.50	0.42
3:L6:3:ASP:H	3:L6:6:THR:HB	1.85	0.42
6:M6:65:VAL:CG1	1:b7:60:LEU:N	2.82	0.42
9:z5:58:THR:HG22	9:z5:58:THR:O	2.19	0.42
10:j5:17:PHE:CD1	10:j5:19:THR:CG2	3.02	0.42
10:j5:297:VAL:O	10:j5:297:VAL:HG13	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:481:ILE:HD13	10:j5:481:ILE:HG21	1.69	0.42
10:j5:1146:THR:CA	1:v7:77:ARG:CZ	2.94	0.42
10:k5:187:ARG:NH1	10:k5:237:ASP:OD2	2.52	0.42
10:k5:191:GLU:HB3	10:k5:196:ILE:CD1	2.49	0.42
10:k5:277:ILE:HA	10:k5:284:PRO:HB3	2.02	0.42
10:k5:631:HIS:HA	10:k5:664:MET:CE	2.48	0.42
10:k5:1050:PHE:CD2	10:k5:1058:VAL:HG11	2.45	0.42
10:k5:1118:THR:CB	12:k5:1204:CYC:O2A	2.68	0.42
2:A6:49:ASP:O	2:A6:50:SER:C	2.62	0.42
3:F6:3:ASP:H	3:F6:6:THR:HB	1.85	0.42
8:I7:102:THR:CB	8:I7:103:PRO:HD3	2.33	0.42
8:K7:67:SER:O	8:K7:68:PRO:C	2.63	0.42
1:h7:52:ILE:O	1:h7:52:ILE:CG2	2.67	0.42
8:i7:43:LEU:CD1	8:i7:141:LEU:HD11	2.32	0.42
8:k7:64:ASP:HA	8:k7:67:SER:CB	2.49	0.42
8:a7:48:GLU:HA	11:a9:318:TRP:HH2	0.78	0.42
12:d7:201:CYC:HMD1	12:d7:201:CYC:NC	2.09	0.42
12:C8:201:CYC:CMA	12:C8:201:CYC:NB	2.82	0.42
8:o7:18:LEU:CG	1:p7:97:LEU:HD13	2.49	0.42
8:o7:81:CYS:HA	12:o7:201:CYC:HAC1	1.23	0.42
8:q7:64:ASP:HA	8:q7:67:SER:CB	2.49	0.42
1:v7:139:GLY:CA	11:aA:342:ARG:HD2	2.49	0.42
9:x7:11:ILE:HD11	9:x7:28:PHE:CE1	2.55	0.42
9:y7:11:ILE:HD11	9:y7:28:PHE:CE1	2.55	0.42
3:L8:66:LEU:HA	11:a9:82:GLN:NE2	2.34	0.42
4:M8:1:MET:HE3	4:M8:45:VAL:HA	1.29	0.42
4:M8:91:VAL:CA	2:P8:15:GLN:HA	2.40	0.42
2:N8:30:ARG:NH1	3:O8:5:PHE:CE1	2.88	0.42
3:Q8:103:SER:O	3:Q8:104:VAL:C	2.62	0.42
3:Q8:122:THR:CG2	12:Z8:301:CYC:HMC2	2.48	0.42
12:F1:202:CYC:HB	12:F1:202:CYC:HMA3	1.84	0.42
5:N9:54:LEU:HB3	5:N9:55:PRO:HD3	2.02	0.42
5:N9:54:LEU:CG	3:T9:84:ARG:CZ	2.93	0.42
5:N9:68:LEU:HD23	5:N9:68:LEU:HA	1.80	0.42
12:Q9:201:CYC:CMA	12:Q9:201:CYC:NB	2.81	0.42
5:Z8:28:HIS:CD2	5:Z8:28:HIS:H	2.38	0.42
12:A9:201:CYC:CMA	12:A9:201:CYC:NB	2.81	0.42
12:E9:201:CYC:CMA	12:E9:201:CYC:NB	2.81	0.42
12:F9:303:CYC:NC	12:F9:303:CYC:HMD3	2.35	0.42
2:I9:37:SER:CB	2:I9:97:LEU:CD1	2.97	0.42
3:J9:3:ASP:H	3:J9:6:THR:HB	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W9:99:ALA:HB2	3:X9:9:ILE:HD13	2.00	0.42
11:a9:572:THR:CG2	11:a9:573:SER:N	2.82	0.42
12:a9:901:CYC:HMD3	12:a9:901:CYC:HC	1.83	0.42
11:aA:490:ILE:N	11:aA:490:ILE:CD1	2.80	0.42
11:aA:552:LEU:HA	11:aA:552:LEU:HD23	1.64	0.42
4:M1:37:GLU:HG3	4:M1:38:PRO:HD2	2.00	0.42
4:M1:246:ALA:HA	12:X1:201:CYC:HBB3	1.99	0.42
4:M1:262:ASP:OD1	4:M1:263:PRO:CD	2.68	0.42
5:N1:14:LYS:HE3	5:N1:14:LYS:HB2	1.92	0.42
2:U1:38:MET:HE3	3:V1:24:LEU:CD2	2.49	0.42
12:D2:202:CYC:HB	12:D2:202:CYC:HMA3	1.84	0.42
2:GA:38:MET:HE3	3:HA:24:LEU:CD2	2.50	0.42
2:KA:19:LEU:HA	2:KA:19:LEU:HD23	1.75	0.42
4:MA:59:ILE:HD13	4:MA:59:ILE:HG21	1.67	0.42
4:MA:252:LEU:HD12	12:ZA:202:CYC:O1D	2.20	0.42
5:NA:54:LEU:HB3	5:NA:55:PRO:HD3	2.02	0.42
2:UA:138:VAL:O	2:UA:138:VAL:CG1	2.67	0.42
12:R1:202:CYC:HMD3	12:R1:202:CYC:NC	2.35	0.42
12:H3:202:CYC:HBA1	11:a9:776:TYR:H	1.85	0.42
6:M2:38:SER:O	6:M2:38:SER:OG	2.31	0.42
3:F3:111:ASN:O	4:M3:39:SER:CB	2.61	0.42
3:Z3:24:LEU:CD2	2:Y3:38:MET:HE3	2.50	0.42
12:Z3:202:CYC:NC	12:Z3:202:CYC:HMD3	2.35	0.42
3:B4:117:TYR:CE1	4:M4:53:LEU:HD13	2.54	0.42
2:C4:38:MET:HE2	2:C4:38:MET:HB3	1.81	0.42
4:M3:140:ARG:NH1	4:M3:204:ILE:O	2.52	0.42
3:V3:3:ASP:H	3:V3:6:THR:HB	1.84	0.42
3:S4:24:LEU:CD2	2:R4:38:MET:HE3	2.50	0.42
3:F4:116:THR:N	4:M4:3:VAL:CG1	2.78	0.42
3:L4:91:ARG:NH2	11:aA:239:TYR:OH	2.53	0.42
4:M4:62:LYS:HD2	4:M4:62:LYS:HA	1.67	0.42
2:P4:99:ALA:HB2	3:Q4:9:ILE:HD13	2.00	0.42
3:Q4:75:PRO:HD3	3:Q4:78:ARG:HH21	1.85	0.42
1:L5:42:ALA:HB2	8:U5:151:PHE:CE1	2.55	0.42
8:M5:90:ARG:CD	1:N5:18:TYR:N	2.83	0.42
8:M5:90:ARG:HH12	1:N5:16:GLY:HA2	1.84	0.42
8:O5:105:GLU:HG2	8:O5:110:ILE:HG23	2.02	0.42
3:Y4:117:TYR:O	3:Y4:122:THR:N	2.53	0.42
3:Y4:128:ALA:HB2	3:Y4:172:ALA:HB2	2.02	0.42
5:Z4:29:HIS:NE2	5:Z4:38:GLU:N	2.67	0.42
5:Z4:37:HIS:NE2	12:Z4:301:CYC:C1A	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:C5:27:LYS:C	8:C5:29:PHE:H	2.19	0.42
1:D5:5:ILE:HG21	1:D5:5:ILE:HD13	1.68	0.42
1:D5:71:MEN:C	1:D5:77:ARG:CZ	2.96	0.42
1:J5:5:ILE:CG2	1:J5:5:ILE:O	2.67	0.42
2:C1:38:MET:HE2	2:C1:38:MET:HB3	1.81	0.42
8:e5:25:ARG:H	8:e5:25:ARG:HG3	1.65	0.42
8:Q5:22:GLU:O	8:Q5:26:ILE:HG13	2.20	0.42
8:U5:33:GLY:HA2	8:U5:36:ARG:HB2	2.01	0.42
8:W5:67:SER:O	8:W5:68:PRO:C	2.63	0.42
8:a5:25:ARG:C	8:a5:27:LYS:N	2.78	0.42
8:a5:95:GLY:HA3	8:a5:104:ILE:HD11	2.01	0.42
1:b5:18:TYR:CZ	10:k5:165:ARG:N	2.88	0.42
10:j5:631:HIS:CA	10:j5:664:MET:HE1	2.50	0.42
10:j5:806:VAL:O	10:j5:806:VAL:HG12	2.20	0.42
10:j5:813:ALA:CB	8:S7:14:GLU:OE2	2.67	0.42
10:j5:1069:ARG:HD3	10:j5:1115:ARG:NH1	2.34	0.42
10:j5:1071:PRO:CD	10:j5:1071:PRO:O	2.65	0.42
10:j5:1146:THR:HA	1:v7:77:ARG:CZ	2.49	0.42
10:k5:19:THR:O	10:k5:21:MET:N	2.53	0.42
10:k5:747:LYS:O	10:k5:750:ARG:NH1	2.53	0.42
10:k5:793:SER:CB	12:N7:201:CYC:O2A	2.64	0.42
10:k5:951:MET:CE	10:k5:955:LEU:CD1	2.97	0.42
10:k5:1041:ARG:H	10:k5:1041:ARG:HG2	1.53	0.42
10:k5:1145:PRO:HG2	1:l7:14:VAL:HG11	2.01	0.42
2:A6:30:ARG:NH1	3:B6:5:PHE:CE1	2.88	0.42
2:A6:99:ALA:HB2	3:B6:9:ILE:HD13	2.00	0.42
2:C6:138:VAL:O	2:C6:138:VAL:CG1	2.67	0.42
1:P7:53:LYS:HZ2	8:Q7:120:GLN:CD	2.27	0.42
8:Q7:20:PRO:HG2	8:C7:101:VAL:CG2	2.50	0.42
8:S7:120:GLN:CD	1:X7:53:LYS:NZ	2.78	0.42
8:C7:95:GLY:HA3	8:C7:104:ILE:HD11	2.01	0.42
1:H7:72:MET:HE2	1:H7:72:MET:HB3	1.87	0.42
8:g7:161:GLN:HG2	1:v7:49:THR:CG2	2.50	0.42
8:W7:66:VAL:O	8:W7:66:VAL:CG1	2.66	0.42
8:a7:56:ASP:OD1	11:a9:325:LEU:HB2	2.20	0.42
8:a7:67:SER:O	8:a7:68:PRO:C	2.63	0.42
8:c7:20:PRO:HG3	8:m7:151:PHE:O	2.19	0.42
8:c7:49:ARG:CZ	8:c7:140:LEU:HD22	2.49	0.42
8:c7:112:VAL:HG23	8:c7:115:MET:HE2	2.02	0.42
8:e7:22:GLU:O	8:e7:26:ILE:HG13	2.20	0.42
2:C8:38:MET:HE3	3:D8:24:LEU:CD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D8:2:GLN:HA	3:D8:6:THR:HG21	2.00	0.42
8:o7:22:GLU:O	8:o7:26:ILE:HG13	2.20	0.42
8:u7:22:GLU:O	8:u7:26:ILE:HG13	2.20	0.42
8:u7:67:SER:O	8:u7:68:PRO:C	2.63	0.42
2:V8:38:MET:HE3	3:W8:24:LEU:CD2	2.49	0.42
2:X8:69:PRO:HB2	2:S9:42:ARG:HD2	2.02	0.42
12:H8:201:CYC:CBA	11:a9:261:SER:OG	2.66	0.42
3:J8:3:ASP:H	3:J8:6:THR:HB	1.85	0.42
4:M8:4:LEU:HD12	4:M8:4:LEU:C	2.45	0.42
4:M8:23:PRO:HB2	4:M8:34:ASP:HB3	2.02	0.42
4:M8:140:ARG:HG2	4:M8:209:TYR:OH	2.20	0.42
3:L9:24:LEU:CD2	2:K9:38:MET:HE3	2.50	0.42
4:M9:93:LEU:HA	4:M9:93:LEU:HD12	1.66	0.42
2:O9:49:ASP:O	2:O9:50:SER:C	2.62	0.42
12:D9:202:CYC:HB	12:D9:202:CYC:HMA3	1.84	0.42
2:K9:15:GLN:HA	11:a9:393:ARG:HD3	2.01	0.42
2:K9:17:ARG:NH1	2:K9:17:ARG:CB	2.73	0.42
2:G1:38:MET:HE3	3:H1:24:LEU:CD2	2.50	0.42
11:a9:801:ASN:ND2	11:a9:802:ARG:HD2	2.34	0.42
3:H1:3:ASP:H	3:H1:6:THR:HB	1.85	0.42
4:M1:28:HIS:HD2	4:M1:35:THR:CG2	2.33	0.42
4:M1:185:ALA:HA	12:Z1:202:CYC:CGA	2.50	0.42
2:U1:138:VAL:O	2:U1:138:VAL:CG1	2.67	0.42
2:W1:138:VAL:O	2:W1:138:VAL:CG1	2.67	0.42
12:W1:201:CYC:CMA	12:W1:201:CYC:NB	2.81	0.42
2:Y1:38:MET:HE3	3:Z1:24:LEU:CD2	2.50	0.42
3:D2:3:ASP:H	3:D2:6:THR:HB	1.85	0.42
2:EA:138:VAL:O	2:EA:138:VAL:CG1	2.67	0.42
2:IA:98:VAL:HG21	3:JA:19:LEU:CD1	2.41	0.42
4:MA:232:VAL:HG11	3:XA:111:ASN:C	2.40	0.42
3:RA:2:GLN:HA	3:RA:6:THR:HG21	2.00	0.42
12:RA:202:CYC:CMD	12:RA:202:CYC:NC	2.76	0.42
3:VA:3:ASP:H	3:VA:6:THR:HB	1.85	0.42
12:O1:201:CYC:CMA	12:O1:201:CYC:NB	2.81	0.42
12:R1:201:CYC:O1D	5:N1:50:LEU:CD2	2.66	0.42
3:H3:3:ASP:H	3:H3:6:THR:HB	1.85	0.42
3:J3:77:ARG:CD	2:K3:111:ALA:CB	2.98	0.42
6:M2:62:ARG:HH22	1:h7:58:LYS:N	2.17	0.42
3:B3:124:THR:HB	3:B3:171:ILE:O	2.18	0.42
3:F3:65:ASP:OD1	3:F3:65:ASP:N	2.47	0.42
12:Z3:202:CYC:HB	12:Z3:202:CYC:HMA3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B4:97:LEU:HA	3:B4:163:TYR:HE2	1.85	0.42
3:B4:113:LEU:HG	3:B4:171:ILE:HG12	2.01	0.42
4:M3:246:ALA:HB2	3:X3:109:CYS:O	2.20	0.42
12:U4:202:CYC:HB	12:U4:202:CYC:HMA3	1.84	0.42
3:H4:108:ARG:NH2	11:aA:97:ALA:CB	2.82	0.42
12:I4:201:CYC:CMA	12:I4:201:CYC:NB	2.82	0.42
4:M4:23:PRO:HB2	4:M4:34:ASP:HB3	2.02	0.42
3:Y4:102:ALA:HB1	3:Y4:106:GLU:H	1.84	0.42
3:Y4:113:LEU:HD11	3:Y4:117:TYR:CD2	2.54	0.42
5:Z4:53:LEU:C	5:Z4:53:LEU:CD2	2.92	0.42
5:Z4:60:ILE:HD13	5:Z4:60:ILE:HG21	1.74	0.42
1:B5:107:ARG:NH1	9:z5:21:ARG:HB2	2.34	0.42
8:E5:22:GLU:O	8:E5:26:ILE:HG13	2.20	0.42
8:I5:105:GLU:HG2	8:I5:110:ILE:HG23	2.02	0.42
1:f5:18:TYR:CZ	10:j5:165:ARG:CD	3.01	0.42
1:R5:120:GLY:O	10:k5:703:LEU:CD1	2.67	0.42
8:S5:67:SER:O	8:S5:68:PRO:C	2.63	0.42
8:Y5:66:VAL:O	8:Y5:66:VAL:CG1	2.66	0.42
8:a5:25:ARG:H	8:a5:25:ARG:HG3	1.62	0.42
3:J6:3:ASP:H	3:J6:6:THR:HB	1.85	0.42
6:M6:147:ASP:OD2	2:E6:15:GLN:NE2	2.53	0.42
8:A7:120:GLN:CD	1:F7:53:LYS:NZ	2.78	0.42
10:j5:526:MET:HE2	10:j5:683:ARG:HD2	2.01	0.42
10:j5:725:LEU:O	8:K7:83:ARG:HD3	2.20	0.42
10:j5:853:LEU:O	10:j5:853:LEU:CG	2.68	0.42
10:j5:1008:PHE:CD1	1:v7:87:TYR:OH	2.64	0.42
10:k5:144:ASN:OD1	10:k5:144:ASN:N	2.50	0.42
10:k5:623:VAL:O	10:k5:623:VAL:HG12	2.17	0.42
10:k5:759:THR:H	10:k5:759:THR:HG22	1.58	0.42
10:k5:978:LEU:HD12	10:k5:978:LEU:HA	1.88	0.42
10:k5:1025:LEU:CD2	10:k5:1035:PHE:CG	2.74	0.42
10:k5:1064:LYS:O	10:k5:1068:GLY:CA	2.68	0.42
8:Q7:122:PRO:HD2	12:Q7:201:CYC:OC	2.19	0.42
1:D7:75:THR:HB	8:E7:112:VAL:CA	2.50	0.42
12:D7:201:CYC:HMD1	12:D7:201:CYC:NC	2.10	0.42
8:E7:67:SER:O	8:E7:68:PRO:C	2.63	0.42
8:E7:122:PRO:HD2	12:E7:201:CYC:OC	2.19	0.42
8:M7:67:SER:O	8:M7:68:PRO:C	2.63	0.42
8:i7:141:LEU:HD12	8:i7:146:ALA:HA	2.01	0.42
1:V7:72:MET:HE2	1:V7:72:MET:HB3	1.87	0.42
8:a7:62:ARG:HA	11:a9:336:ILE:HG21	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c7:13:ALA:CB	9:x7:46:LYS:HE3	2.50	0.42
8:c7:112:VAL:C	8:c7:115:MET:H	2.28	0.42
2:E1:38:MET:HE3	3:F1:24:LEU:CD2	2.50	0.42
3:B8:125:ARG:HD2	3:W8:14:LEU:CD1	2.50	0.42
1:l7:72:MET:HE2	1:l7:72:MET:HB3	1.87	0.42
8:o7:94:TYR:CZ	1:p7:17:LYS:O	2.69	0.42
8:q7:67:SER:O	8:q7:68:PRO:C	2.63	0.42
8:s7:67:SER:O	8:s7:68:PRO:C	2.63	0.42
8:u7:76:LYS:O	8:u7:80:LEU:HG	2.19	0.42
8:u7:80:LEU:CD1	12:u7:201:CYC:C3D	2.97	0.42
9:w7:11:ILE:HG21	9:w7:11:ILE:HD13	1.64	0.42
2:T8:38:MET:HE2	2:T8:38:MET:HB3	1.81	0.42
12:W8:202:CYC:HB	12:W8:202:CYC:HMA3	1.83	0.42
12:X8:201:CYC:CMA	12:X8:201:CYC:NB	2.81	0.42
12:K8:201:CYC:CMA	12:K8:201:CYC:NB	2.81	0.42
2:N8:38:MET:HE2	2:N8:38:MET:HB3	1.81	0.42
3:L9:107:ASP:C	3:L9:111:ASN:HB2	2.45	0.42
4:M9:140:ARG:NH1	4:M9:204:ILE:O	2.52	0.42
4:M9:188:LEU:HG	3:V9:84:ARG:NH1	2.33	0.42
2:O9:30:ARG:NH1	3:P9:5:PHE:CE1	2.88	0.42
3:B9:14:LEU:HD13	3:X9:125:ARG:CD	2.47	0.42
3:H9:127:VAL:HA	12:H9:202:CYC:HBC3	2.02	0.42
12:J9:201:CYC:NC	12:J9:201:CYC:HMD3	2.35	0.42
12:X9:202:CYC:HB	12:X9:202:CYC:HMA3	1.83	0.42
2:Y9:38:MET:HE3	3:Z9:24:LEU:CD2	2.50	0.42
11:a9:388:VAL:O	11:a9:392:ILE:HD12	2.20	0.42
11:a9:526:GLN:H	11:a9:526:GLN:HG2	1.53	0.42
11:a9:584:ARG:O	11:a9:588:VAL:N	2.51	0.42
11:a9:643:LEU:HD11	11:a9:766:ASN:CA	2.50	0.42
11:aA:92:LYS:HA	11:aA:92:LYS:HD3	1.54	0.42
11:aA:283:GLN:CG	11:aA:284:PRO:HD3	2.48	0.42
2:K1:38:MET:HE3	3:L1:24:LEU:CD2	2.50	0.42
4:M1:211:GLN:O	5:N1:28:HIS:NE2	2.45	0.42
3:X1:81:ALA:HA	3:X1:84:ARG:CZ	2.49	0.42
3:Z1:3:ASP:H	3:Z1:6:THR:HB	1.84	0.42
2:E2:38:MET:HE3	3:F2:24:LEU:CD2	2.50	0.42
3:DA:111:ASN:ND2	4:MA:73:ASP:HA	2.31	0.42
12:DA:202:CYC:HB	12:DA:202:CYC:HMA3	1.84	0.42
3:FA:148:VAL:HG11	12:F9:302:CYC:C1D	2.49	0.42
2:IA:19:LEU:CD1	3:JA:41:VAL:CG1	2.98	0.42
3:LA:3:ASP:H	3:LA:6:THR:HB	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:MA:262:ASP:OD1	4:MA:263:PRO:CD	2.68	0.42
2:OA:30:ARG:NH1	3:PA:5:PHE:CE1	2.88	0.42
2:SA:38:MET:C	2:X4:69:PRO:HG3	2.37	0.42
12:VA:202:CYC:CMD	12:VA:202:CYC:NC	2.75	0.42
2:WA:99:ALA:HB2	3:XA:9:ILE:HD13	2.00	0.42
2:O1:34:ALA:HB3	3:P1:31:VAL:CG1	2.39	0.42
2:S1:38:MET:HE3	3:T1:24:LEU:CD2	2.50	0.42
2:G3:38:MET:HE3	3:H3:24:LEU:CD2	2.50	0.42
12:G3:201:CYC:CMA	12:G3:201:CYC:NB	2.82	0.42
2:K3:138:VAL:O	2:K3:138:VAL:CG1	2.67	0.42
12:G2:201:CYC:CBB	3:L2:74:TYR:CZ	3.02	0.42
3:J2:3:ASP:H	3:J2:6:THR:HB	1.85	0.42
7:N2:4:ASN:O	7:N2:5:VAL:C	2.61	0.42
3:D3:3:ASP:H	3:D3:6:THR:HB	1.85	0.42
3:L3:3:ASP:H	3:L3:6:THR:HB	1.85	0.42
3:X3:81:ALA:HA	3:X3:84:ARG:CZ	2.49	0.42
3:U4:3:ASP:H	3:U4:6:THR:HB	1.85	0.42
2:K4:38:MET:HE3	3:L4:24:LEU:CD2	2.50	0.42
4:M4:132:LEU:HD12	4:M4:137:ILE:HD12	2.01	0.42
4:M4:225:LYS:N	12:M4:301:CYC:O2A	2.10	0.42
2:R4:38:MET:HE2	2:R4:38:MET:HB3	1.81	0.42
2:R4:138:VAL:O	2:R4:138:VAL:CG1	2.67	0.42
8:K5:116:TYR:HB3	8:K5:123:ILE:CG1	2.49	0.42
12:K5:201:CYC:HBB2	1:J5:73:TYR:HE1	1.85	0.42
8:O5:2:SER:HA	8:O5:100:ASP:HB3	2.01	0.42
5:Z4:31:TRP:CB	5:Z4:32:PRO:HD2	2.32	0.42
8:A5:22:GLU:O	8:A5:26:ILE:HG13	2.20	0.42
8:A5:88:TYR:CZ	12:A5:201:CYC:CMB	3.03	0.42
8:A5:121:THR:HG22	12:A5:201:CYC:HMC3	2.01	0.42
1:B5:10:ASN:OD1	10:k5:557:VAL:HG23	2.13	0.42
8:C5:67:SER:O	8:C5:68:PRO:C	2.63	0.42
8:G5:22:GLU:O	8:G5:26:ILE:HG13	2.20	0.42
8:G5:67:SER:O	8:G5:68:PRO:C	2.63	0.42
8:e5:5:THR:C	8:e5:7:ALA:N	2.78	0.42
8:S5:90:ARG:CD	1:T5:18:TYR:N	2.83	0.42
8:S5:105:GLU:HG2	8:S5:110:ILE:HG23	2.02	0.42
8:U5:67:SER:O	8:U5:68:PRO:C	2.63	0.42
8:U5:105:GLU:HG2	8:U5:110:ILE:HG23	2.02	0.42
1:b5:30:TYR:HH	10:k5:47:PHE:HZ	0.42	0.42
12:K6:201:CYC:CMA	12:K6:201:CYC:NB	2.81	0.42
3:L6:70:GLY:HA2	6:M6:67:GLY:CA	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A7:120:GLN:CG	1:F7:53:LYS:NZ	2.78	0.42
10:j5:558:VAL:O	10:j5:560:VAL:N	2.53	0.42
10:j5:739:VAL:O	10:j5:739:VAL:HG12	2.18	0.42
10:j5:830:GLU:O	10:j5:830:GLU:HG3	2.20	0.42
10:j5:922:LYS:HB2	10:j5:922:LYS:HE3	1.78	0.42
10:j5:942:LYS:HD2	10:j5:943:THR:HG22	2.02	0.42
10:j5:971:VAL:CG1	1:t7:76:ARG:NH2	2.83	0.42
10:j5:1052:PRO:HA	1:r7:106:GLU:OE2	2.20	0.42
10:j5:1144:SER:CB	1:r7:13:ASP:OD2	2.62	0.42
10:k5:277:ILE:HG12	10:k5:284:PRO:HB3	0.61	0.42
10:k5:393:MET:HA	10:k5:394:PRO:HD3	1.68	0.42
10:k5:414:ILE:HD13	10:k5:414:ILE:HG21	1.73	0.42
10:k5:549:LYS:HG2	10:k5:551:MET:HB2	2.01	0.42
10:k5:1018:LEU:CA	10:k5:1021:ALA:HB3	2.40	0.42
10:k5:1064:LYS:HD2	10:k5:1065:HIS:H	1.82	0.42
10:k5:1118:THR:HG23	12:k5:1204:CYC:CMA	2.49	0.42
12:B6:201:CYC:HB	12:B6:201:CYC:HMA3	1.84	0.42
12:D6:202:CYC:HB	12:D6:202:CYC:HMA3	1.84	0.42
8:O7:67:SER:O	8:O7:68:PRO:C	2.63	0.42
1:P7:76:ARG:HD3	8:Q7:110:ILE:CD1	2.50	0.42
12:P7:201:CYC:CBB	9:z7:21:ARG:CG	2.97	0.42
8:Q7:67:SER:O	8:Q7:68:PRO:C	2.63	0.42
8:S7:22:GLU:O	8:S7:26:ILE:HG13	2.20	0.42
8:C7:67:SER:O	8:C7:68:PRO:C	2.63	0.42
1:H7:54:GLU:OE2	11:aA:563:PHE:CB	2.63	0.42
1:H7:89:LEU:HB2	1:H7:133:MET:HE1	2.02	0.42
8:I7:2:SER:O	8:I7:100:ASP:OD2	2.37	0.42
1:L7:8:VAL:HB	1:L7:27:LEU:HD21	2.02	0.42
8:M7:105:GLU:HG2	8:M7:110:ILE:HG23	2.02	0.42
8:g7:67:SER:O	8:g7:68:PRO:C	2.63	0.42
8:i7:22:GLU:O	8:i7:26:ILE:HG13	2.20	0.42
8:i7:47:ARG:CB	1:j7:18:TYR:CZ	3.01	0.42
8:k7:120:GLN:CD	1:p7:53:LYS:NZ	2.78	0.42
8:W7:105:GLU:HG2	8:W7:110:ILE:HG23	2.02	0.42
1:b7:37:ARG:HG2	1:b7:37:ARG:HH11	1.85	0.42
2:C8:138:VAL:O	2:C8:138:VAL:CG1	2.67	0.42
8:u7:94:TYR:CZ	1:v7:17:LYS:O	2.69	0.42
2:T8:38:MET:HE3	3:U8:24:LEU:CD2	2.49	0.42
3:U8:3:ASP:H	3:U8:6:THR:HB	1.85	0.42
3:F8:3:ASP:H	3:F8:6:THR:HB	1.85	0.42
3:F8:108:ARG:HE	4:M8:9:GLN:HA	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H8:14:LEU:HD13	11:a9:85:ALA:CB	2.48	0.42
4:M8:87:ILE:HD13	3:Y8:77:ARG:HG3	0.43	0.42
4:M8:132:LEU:HD12	4:M8:137:ILE:HD12	2.01	0.42
4:M8:184:ILE:HA	4:M8:184:ILE:HD13	1.65	0.42
4:M8:222:ARG:HH11	4:M8:222:ARG:CG	2.13	0.42
3:F1:113:LEU:HD13	4:M1:38:PRO:HB3	2.01	0.42
4:M9:23:PRO:HB2	4:M9:34:ASP:HB3	2.02	0.42
4:M9:162:ASN:N	12:V9:201:CYC:CBB	2.61	0.42
2:C9:138:VAL:O	2:C9:138:VAL:CG1	2.67	0.42
2:G9:38:MET:HE3	3:H9:24:LEU:CD2	2.50	0.42
2:I9:99:ALA:HB2	3:J9:9:ILE:HD13	2.00	0.42
2:I9:138:VAL:O	2:I9:138:VAL:CG1	2.67	0.42
12:T9:302:CYC:HB	12:T9:302:CYC:HMA3	1.83	0.42
11:a9:419:ARG:O	11:a9:420:ASN:C	2.58	0.42
11:a9:579:PHE:O	11:a9:580:THR:C	2.57	0.42
11:aA:334:LYS:HE2	11:aA:334:LYS:HB2	1.89	0.42
11:aA:735:VAL:HG13	3:L1:84:ARG:HH12	1.85	0.42
5:N1:54:LEU:HB3	5:N1:55:PRO:HD3	2.02	0.42
3:B2:77:ARG:HA	3:B2:77:ARG:HD2	1.59	0.42
2:C2:99:ALA:HB2	3:D2:9:ILE:HD13	2.00	0.42
3:BA:3:ASP:H	3:BA:6:THR:HB	1.84	0.41
12:BA:202:CYC:HB	12:BA:202:CYC:HMA3	1.84	0.41
12:DA:201:CYC:HBB1	4:MA:6:THR:HG21	2.01	0.41
12:HA:201:CYC:HB	12:HA:201:CYC:HMA3	1.83	0.41
2:IA:38:MET:HE3	3:JA:24:LEU:CD2	2.50	0.41
2:O1:30:ARG:NH1	3:P1:5:PHE:CE1	2.88	0.41
2:O1:49:ASP:O	2:O1:50:SER:C	2.62	0.41
3:P1:151:GLY:HA3	12:P1:202:CYC:CMD	2.50	0.41
12:P1:201:CYC:HBA2	4:M1:134:ASN:HB2	2.00	0.41
2:G3:99:ALA:HB2	3:H3:9:ILE:HD13	2.00	0.41
2:G3:138:VAL:O	2:G3:138:VAL:CG1	2.67	0.41
3:D3:116:THR:OG1	4:M3:69:ILE:HG13	2.20	0.41
3:B4:108:ARG:HA	4:M4:61:ASN:HB2	1.99	0.41
4:M3:18:THR:C	4:M3:19:MET:HG3	2.43	0.41
4:M3:28:HIS:CD2	4:M3:35:THR:HG23	2.55	0.41
4:M3:274:VAL:HG12	4:M3:274:VAL:OXT	2.20	0.41
5:N3:16:PHE:CE1	3:R3:120:LEU:CD2	3.02	0.41
3:P3:3:ASP:H	3:P3:6:THR:HB	1.85	0.41
12:S3:201:CYC:CMA	12:S3:201:CYC:NB	2.81	0.41
3:T3:3:ASP:H	3:T3:6:THR:HB	1.85	0.41
2:W3:138:VAL:O	2:W3:138:VAL:CG1	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:G4:201:CYC:CMA	12:G4:201:CYC:NB	2.82	0.41
4:M4:138:SER:HB3	12:Z4:301:CYC:HAB2	2.00	0.41
8:K5:102:THR:N	8:K5:103:PRO:HD2	2.34	0.41
8:K5:110:ILE:HG21	8:K5:110:ILE:HD13	1.59	0.41
8:A5:88:TYR:OH	12:A5:201:CYC:CMB	2.68	0.41
1:H5:76:ARG:HG3	9:i5:14:LEU:O	2.20	0.41
8:U5:2:SER:O	8:U5:100:ASP:OD2	2.37	0.41
12:V5:201:CYC:HBB2	10:j5:623:VAL:CB	2.49	0.41
12:V5:201:CYC:CMA	12:V5:201:CYC:NB	2.74	0.41
8:Y5:22:GLU:O	8:Y5:26:ILE:HG13	2.20	0.41
8:Y5:67:SER:O	8:Y5:68:PRO:C	2.63	0.41
8:a5:67:SER:O	8:a5:68:PRO:C	2.63	0.41
10:j5:156:SER:HG	12:j5:1201:CYC:HHD	1.84	0.41
10:j5:194:CYS:CB	12:j5:1201:CYC:CAC	2.92	0.41
10:j5:284:PRO:HB2	10:j5:286:VAL:N	2.34	0.41
10:j5:549:LYS:HG2	10:j5:551:MET:HB2	2.01	0.41
10:j5:623:VAL:O	10:j5:623:VAL:HG12	2.17	0.41
10:j5:747:LYS:O	10:j5:750:ARG:NH1	2.53	0.41
10:j5:872:TYR:HB3	9:w7:43:ARG:NH1	2.35	0.41
10:j5:1064:LYS:O	10:j5:1065:HIS:C	2.63	0.41
10:j5:1064:LYS:O	10:j5:1068:GLY:CA	2.67	0.41
10:k5:274:MET:HE2	10:k5:323:VAL:HG22	2.01	0.41
10:k5:277:ILE:CB	10:k5:284:PRO:CA	2.98	0.41
10:k5:306:GLU:CD	10:k5:362:LYS:HZ3	2.21	0.41
10:k5:591:ILE:HD12	10:k5:591:ILE:HA	1.62	0.41
10:k5:942:LYS:HD2	10:k5:943:THR:HG22	2.02	0.41
10:k5:1008:PHE:HD1	12:p7:201:CYC:CBB	2.33	0.41
2:A6:38:MET:HE2	2:A6:38:MET:HB3	1.81	0.41
3:D1:3:ASP:H	3:D1:6:THR:HB	1.85	0.41
8:O7:66:VAL:O	8:O7:66:VAL:CG1	2.66	0.41
1:R7:53:LYS:NZ	8:M7:120:GLN:CD	2.78	0.41
8:S7:105:GLU:HG2	8:S7:110:ILE:HG23	2.02	0.41
12:C7:201:CYC:HB	12:C7:201:CYC:CMA	2.21	0.41
8:I7:161:GLN:HG3	1:X7:49:THR:HG21	1.95	0.41
8:i7:112:VAL:HG23	8:i7:115:MET:HE2	2.02	0.41
1:T7:89:LEU:HB2	1:T7:133:MET:HE1	2.02	0.41
8:W7:121:THR:HG23	12:W7:201:CYC:NC	2.35	0.41
1:b7:75:THR:HG21	8:c7:112:VAL:HB	2.02	0.41
3:B8:112:GLY:HA3	4:M8:66:VAL:HG23	2.01	0.41
3:B8:116:THR:HG21	4:M8:56:MET:HB2	1.83	0.41
3:D8:3:ASP:H	3:D8:6:THR:HB	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u7:45:GLU:OE2	8:u7:45:GLU:CA	2.68	0.41
1:v7:72:MET:HE2	1:v7:72:MET:HB3	1.87	0.41
9:y7:14:LEU:C	9:y7:14:LEU:CD1	2.93	0.41
3:U8:151:GLY:HA3	12:U8:202:CYC:CMD	2.51	0.41
12:U8:202:CYC:HMD3	12:U8:202:CYC:NC	2.35	0.41
2:X8:69:PRO:HG3	2:S9:38:MET:C	2.37	0.41
3:F8:84:ARG:HG3	11:a9:139:ILE:HG21	2.02	0.41
4:M8:100:SER:HA	4:M8:103:GLN:HB2	2.00	0.41
4:M8:124:ARG:H	4:M8:124:ARG:HG2	1.66	0.41
4:M8:225:LYS:CD	3:Y8:81:ALA:CB	2.98	0.41
4:M9:33:LEU:HD21	2:E9:115:GLU:OE2	2.11	0.41
4:M9:124:ARG:H	4:M9:124:ARG:HG2	1.66	0.41
5:Z8:42:SER:CA	12:Z8:301:CYC:CMA	2.43	0.41
3:D9:3:ASP:H	3:D9:6:THR:HB	1.84	0.41
3:V9:108:ARG:HG2	3:V9:108:ARG:HH21	1.84	0.41
2:Y9:38:MET:HE2	2:Y9:38:MET:HB3	1.81	0.41
11:a9:89:ALA:CB	11:a9:92:LYS:NZ	2.81	0.41
11:a9:327:SER:OG	11:a9:328:GLN:NE2	2.53	0.41
11:a9:465:TYR:CE2	11:a9:516:GLN:HA	2.54	0.41
11:a9:763:PHE:CE1	11:a9:772:ARG:NH2	2.88	0.41
11:aA:250:ARG:HA	11:aA:285:VAL:HG21	2.02	0.41
11:aA:389:GLN:NE2	11:aA:389:GLN:CA	2.72	0.41
11:aA:412:VAL:O	11:aA:415:GLU:OE1	2.38	0.41
11:aA:462:ARG:CG	11:aA:462:ARG:NH1	2.71	0.41
4:M1:23:PRO:HB2	4:M1:34:ASP:HB3	2.02	0.41
4:M1:145:LEU:HD23	4:M1:145:LEU:HA	1.89	0.41
1:A:16:GLY:HA2	8:a5:90:ARG:HH12	1.78	0.41
1:Z:118:SER:OG	10:j5:9:SER:CB	2.62	0.41
2:AA:2:LYS:HZ2	2:KA:17:ARG:NH2	2.18	0.41
3:FA:36:LYS:HE2	3:FA:156:LEU:HD13	2.03	0.41
2:GA:138:VAL:O	2:GA:138:VAL:CG1	2.67	0.41
2:IA:4:VAL:HG21	2:IA:30:ARG:HB2	2.02	0.41
2:IA:8:VAL:CG1	2:IA:23:GLU:OE2	2.64	0.41
2:IA:37:SER:CB	2:IA:97:LEU:CD1	2.97	0.41
4:MA:28:HIS:CD2	4:MA:35:THR:HG23	2.55	0.41
4:MA:263:PRO:C	3:VA:119:ALA:HB2	2.43	0.41
3:R1:2:GLN:HA	3:R1:6:THR:HG21	2.01	0.41
2:A1:63:PHE:O	2:A1:66:LEU:CB	2.68	0.41
12:H2:202:CYC:HB	12:H2:202:CYC:HMA3	1.83	0.41
3:B4:86:MET:CG	12:B4:202:CYC:CBC	2.92	0.41
3:D4:150:ARG:NH1	2:C1:140:SER:HB3	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L3:77:ARG:HD3	11:a9:824:VAL:OXT	2.20	0.41
3:X3:3:ASP:H	3:X3:6:THR:HB	1.85	0.41
3:U4:151:GLY:HA3	12:U4:202:CYC:CMD	2.51	0.41
3:W4:3:ASP:H	3:W4:6:THR:HB	1.85	0.41
2:G4:15:GLN:HE21	11:aA:120:ARG:NH1	2.17	0.41
3:J4:125:ARG:NH2	2:C2:68:GLN:HE21	2.18	0.41
4:M4:143:VAL:HG21	4:M4:219:PRO:CG	2.50	0.41
4:M4:232:VAL:CG1	12:M4:301:CYC:HBB2	2.47	0.41
12:O4:202:CYC:HMD3	12:O4:202:CYC:NC	2.35	0.41
1:L5:8:VAL:HB	1:L5:27:LEU:HD21	2.02	0.41
8:M5:22:GLU:O	8:M5:26:ILE:HG13	2.20	0.41
1:B5:140:LEU:HD11	8:W7:49:ARG:NH1	2.35	0.41
8:E5:64:ASP:HB2	8:Q5:64:ASP:HB2	2.03	0.41
8:I5:67:SER:O	8:I5:68:PRO:C	2.63	0.41
1:J5:118:SER:O	9:i5:56:LEU:HD21	2.19	0.41
8:c5:22:GLU:O	8:c5:26:ILE:HG13	2.20	0.41
8:e5:25:ARG:C	8:e5:27:LYS:H	2.27	0.41
8:e5:67:SER:O	8:e5:68:PRO:C	2.63	0.41
8:U5:95:GLY:HA3	8:U5:104:ILE:HD11	2.01	0.41
8:U5:130:VAL:CG1	8:U5:157:VAL:HG23	2.49	0.41
3:J6:65:ASP:OD1	3:J6:65:ASP:N	2.47	0.41
3:L6:151:GLY:HA3	12:L6:202:CYC:CMD	2.51	0.41
6:M6:83:ALA:HB1	6:M6:222:LYS:HE3	2.01	0.41
10:j5:387:VAL:O	10:j5:394:PRO:HG3	2.05	0.41
10:j5:431:GLN:CA	10:j5:431:GLN:HE21	2.33	0.41
10:j5:780:ILE:O	10:j5:780:ILE:HG13	2.11	0.41
10:j5:953:LEU:HA	10:j5:953:LEU:HD23	1.60	0.41
10:j5:1033:ARG:NH2	10:j5:1098:GLU:HG2	2.34	0.41
10:j5:1142:SER:O	1:r7:10:ASN:ND2	2.53	0.41
10:k5:28:ILE:HD13	10:k5:28:ILE:HG21	1.59	0.41
10:k5:277:ILE:CA	10:k5:284:PRO:HB3	2.49	0.41
10:k5:423:LEU:HD23	10:k5:423:LEU:HA	1.75	0.41
10:k5:526:MET:HE2	10:k5:683:ARG:HD2	2.01	0.41
10:k5:783:TYR:OH	1:F7:83:ARG:NE	2.50	0.41
10:k5:802:VAL:O	10:k5:802:VAL:CG1	2.69	0.41
2:A6:63:PHE:O	2:A6:66:LEU:CB	2.68	0.41
3:D1:116:THR:OG1	4:M1:69:ILE:HG13	2.20	0.41
1:B7:89:LEU:HB2	1:B7:133:MET:HE1	2.03	0.41
8:C7:2:SER:HA	8:C7:100:ASP:HB3	2.01	0.41
1:F7:8:VAL:HB	1:F7:27:LEU:HD21	2.02	0.41
8:K7:121:THR:HG23	12:K7:201:CYC:NC	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:g7:37:LEU:HD22	1:h7:24:LEU:CD2	2.46	0.41
8:g7:67:SER:HB3	8:g7:68:PRO:HD2	2.00	0.41
8:k7:105:GLU:HG2	8:k7:110:ILE:HG23	2.02	0.41
1:T7:72:MET:HE2	1:T7:72:MET:HB3	1.86	0.41
8:U7:15:ALA:CA	1:V7:90:ARG:CZ	2.98	0.41
8:a7:2:SER:HA	8:a7:100:ASP:HB3	2.01	0.41
8:a7:6:LYS:NZ	8:o7:16:ARG:HH22	2.15	0.41
3:B8:81:ALA:O	12:B8:202:CYC:NC	2.53	0.41
2:E8:38:MET:HE3	3:F8:24:LEU:CD2	2.50	0.41
8:q7:22:GLU:O	8:q7:26:ILE:HG13	2.20	0.41
1:v7:8:VAL:HB	1:v7:27:LEU:HD21	2.03	0.41
9:y7:40:GLU:OE2	9:y7:43:ARG:CD	2.65	0.41
2:X8:38:MET:HE3	3:Y8:24:LEU:CD2	2.50	0.41
12:J8:202:CYC:HB	12:J8:202:CYC:HMA3	1.84	0.41
2:K8:138:VAL:O	2:K8:138:VAL:CG1	2.67	0.41
3:L8:117:TYR:HE1	12:a9:901:CYC:NA	2.18	0.41
4:M8:104:ALA:HB2	2:P8:14:SER:H	1.80	0.41
4:M8:274:VAL:OXT	4:M8:274:VAL:HG12	2.21	0.41
3:O8:112:GLY:CA	5:Z8:69:GLU:CA	2.98	0.41
12:F1:201:CYC:CMA	12:F1:201:CYC:HB	2.25	0.41
4:M9:4:LEU:HD12	4:M9:4:LEU:C	2.45	0.41
4:M9:70:SER:O	4:M9:70:SER:OG	2.35	0.41
5:Z8:1:MET:CA	5:Z8:1:MET:CE	2.85	0.41
2:I9:155:ASP:O	2:I9:159:ASN:OD1	2.37	0.41
11:a9:629:LYS:NZ	11:a9:629:LYS:CA	2.72	0.41
11:aA:89:ALA:CA	11:aA:92:LYS:HZ2	2.29	0.41
11:aA:351:THR:O	11:aA:353:ALA:HA	2.20	0.41
11:aA:379:LEU:HD12	11:aA:379:LEU:HA	1.42	0.41
11:aA:813:PRO:CA	3:L1:119:ALA:HB1	2.41	0.41
12:H1:202:CYC:HB	12:H1:202:CYC:HMA3	1.84	0.41
4:M1:132:LEU:HD12	4:M1:137:ILE:HD12	2.01	0.41
2:AA:30:ARG:NH1	3:BA:5:PHE:CE1	2.88	0.41
3:BA:107:ASP:HB3	11:aA:382:ASN:HB3	2.02	0.41
3:DA:3:ASP:H	3:DA:6:THR:HB	1.84	0.41
3:DA:115:GLU:OE2	4:MA:76:ALA:C	2.49	0.41
3:FA:145:PRO:HG3	12:F9:302:CYC:HMC3	1.91	0.41
2:IA:18:PHE:CE2	3:JA:48:ALA:HB2	2.55	0.41
2:IA:38:MET:HE2	2:IA:38:MET:HB3	1.81	0.41
2:KA:18:PHE:CE1	3:LA:90:LEU:CD2	3.03	0.41
4:MA:99:VAL:HG13	3:RA:77:ARG:HD2	2.01	0.41
12:PA:202:CYC:HB	12:PA:202:CYC:HMA3	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:RA:151:GLY:HA3	12:RA:202:CYC:CMD	2.51	0.41
2:UA:81:LYS:NZ	12:UA:201:CYC:O1A	2.51	0.41
3:H2:3:ASP:H	3:H2:6:THR:HB	1.85	0.41
2:C3:38:MET:HE3	3:D3:24:LEU:CD2	2.50	0.41
12:D3:201:CYC:HB	12:D3:201:CYC:HMA3	1.84	0.41
2:A4:30:ARG:NH1	3:B4:5:PHE:CE1	2.88	0.41
2:A4:63:PHE:O	2:A4:66:LEU:CB	2.69	0.41
12:B4:202:CYC:OB	4:M4:58:TYR:CD1	2.73	0.41
3:P3:151:GLY:HA3	12:P3:202:CYC:CMD	2.50	0.41
2:W3:38:MET:HE3	3:X3:24:LEU:CD2	2.49	0.41
2:T4:38:MET:HE2	2:T4:38:MET:HB3	1.81	0.41
4:M4:28:HIS:CD2	4:M4:35:THR:HG23	2.55	0.41
4:M4:61:ASN:CG	4:M4:62:LYS:HD3	2.46	0.41
4:M4:205:ASP:OD2	5:Z4:59:ARG:HG2	2.20	0.41
3:O4:112:GLY:CA	5:Z4:69:GLU:C	2.93	0.41
12:O4:202:CYC:HB	12:O4:202:CYC:HMA3	1.84	0.41
1:L5:106:GLU:CG	9:i5:58:THR:HG23	2.48	0.41
8:M5:107:ILE:HG21	1:N5:13:ASP:OD1	2.19	0.41
8:O5:67:SER:O	8:O5:68:PRO:C	2.63	0.41
12:Y4:201:CYC:HB	12:Y4:201:CYC:HMA3	1.84	0.41
5:Z4:23:SER:HB2	5:Z4:25:THR:H	1.84	0.41
8:C5:25:ARG:C	8:C5:25:ARG:CD	2.86	0.41
8:G5:5:THR:CG2	10:j5:559:THR:HG21	2.50	0.41
8:I5:8:ILE:O	8:I5:8:ILE:HG22	2.20	0.41
8:I5:95:GLY:HA3	8:I5:104:ILE:HD11	2.01	0.41
8:I5:107:ILE:O	12:I5:201:CYC:HAB2	2.20	0.41
12:J5:201:CYC:NB	9:i5:38:PHE:CE2	2.88	0.41
8:c5:105:GLU:HG2	8:c5:110:ILE:HG23	2.02	0.41
12:f5:201:CYC:HC	12:f5:201:CYC:CMD	2.13	0.41
8:S5:15:ALA:HB2	10:j5:573:GLN:CD	2.45	0.41
12:J6:201:CYC:HMD3	12:J6:201:CYC:NC	2.34	0.41
7:N6:49:LEU:O	7:N6:53:GLN:HB2	2.19	0.41
9:i5:8:THR:HB	9:i5:53:SER:H	1.85	0.41
9:i5:23:LEU:CA	9:i5:25:ASN:H	2.33	0.41
10:j5:195:SER:O	10:j5:199:THR:CG2	2.63	0.41
10:j5:344:ARG:HH12	10:j5:349:GLN:HG3	1.86	0.41
10:j5:938:GLN:OE1	1:J7:28:LYS:HD3	2.06	0.41
10:k5:975:ARG:HD3	10:k5:1116:TYR:CE2	2.55	0.41
12:A6:201:CYC:CMA	12:A6:201:CYC:NB	2.82	0.41
8:O7:33:GLY:HA2	8:O7:36:ARG:HB2	2.01	0.41
8:Q7:22:GLU:O	8:Q7:26:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R7:8:VAL:HB	1:R7:27:LEU:HD21	2.03	0.41
12:R7:201:CYC:HMD1	12:R7:201:CYC:NC	2.09	0.41
8:S7:67:SER:O	8:S7:68:PRO:C	2.63	0.41
1:D7:72:MET:HB3	1:D7:72:MET:HE2	1.87	0.41
8:G7:64:ASP:HA	8:G7:67:SER:HG	1.85	0.41
1:J7:75:THR:HB	8:K7:112:VAL:CA	2.50	0.41
1:N7:89:LEU:HB2	1:N7:133:MET:HE1	2.02	0.41
8:W7:67:SER:O	8:W7:68:PRO:C	2.63	0.41
8:a7:33:GLY:HA2	8:a7:36:ARG:HB2	2.01	0.41
2:A8:30:ARG:NH1	3:B8:5:PHE:CE1	2.88	0.41
8:m7:105:GLU:HG2	8:m7:110:ILE:HG23	2.02	0.41
8:o7:45:GLU:OE2	8:o7:45:GLU:CA	2.68	0.41
8:o7:77:MET:O	12:o7:201:CYC:HMD3	2.20	0.41
9:z7:6:LYS:N	9:z7:55:LYS:O	2.45	0.41
9:z7:36:ASN:OD1	9:z7:36:ASN:N	2.52	0.41
3:F8:84:ARG:CG	11:a9:139:ILE:CG2	2.93	0.41
2:G8:38:MET:HE3	3:H8:24:LEU:CD2	2.49	0.41
3:H8:3:ASP:H	3:H8:6:THR:HB	1.85	0.41
3:H8:108:ARG:NH2	11:a9:97:ALA:CB	2.83	0.41
3:H8:151:GLY:HA3	12:H8:202:CYC:CMD	2.51	0.41
4:M8:93:LEU:O	4:M8:94:TRP:C	2.62	0.41
3:Q8:77:ARG:CA	5:Z8:34:LEU:HD13	2.48	0.41
4:M9:99:VAL:HG13	3:R9:77:ARG:HD2	2.01	0.41
4:M9:163:ASN:CG	12:V9:201:CYC:HMA3	2.41	0.41
4:M9:274:VAL:OXT	4:M9:274:VAL:HG12	2.20	0.41
5:N9:56:GLU:OE2	5:N9:59:ARG:NH2	2.51	0.41
3:P9:3:ASP:H	3:P9:6:THR:HB	1.85	0.41
12:Y8:201:CYC:HMD3	12:Y8:201:CYC:NC	2.35	0.41
12:Z9:201:CYC:HB	12:Z9:201:CYC:HMA3	1.83	0.41
11:a9:812:ASP:HA	11:a9:813:PRO:HD3	1.69	0.41
11:aA:328:GLN:NE2	11:aA:328:GLN:CA	2.83	0.41
11:aA:388:VAL:O	11:aA:392:ILE:HD12	2.20	0.41
11:aA:562:TYR:CD1	11:aA:562:TYR:C	2.94	0.41
12:J1:201:CYC:HMD3	12:J1:201:CYC:NC	2.34	0.41
5:N1:37:HIS:HD2	12:T1:301:CYC:CMA	2.33	0.41
2:A2:138:VAL:O	2:A2:138:VAL:CG1	2.67	0.41
3:BA:151:GLY:HA3	12:BA:202:CYC:CMD	2.51	0.41
3:HA:151:GLY:HA3	12:HA:201:CYC:CMD	2.51	0.41
12:LA:201:CYC:HB	12:LA:201:CYC:HMA3	1.84	0.41
4:MA:184:ILE:HD13	4:MA:184:ILE:HA	1.65	0.41
4:MA:271:ARG:HH21	4:MA:271:ARG:HD2	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:QA:29:GLY:CA	2:UA:25:GLN:O	2.68	0.41
2:O1:63:PHE:O	2:O1:66:LEU:CB	2.69	0.41
2:G2:116:VAL:CG2	3:L2:76:ASN:OD1	2.61	0.41
2:K2:38:MET:HE3	3:L2:24:LEU:CD2	2.50	0.41
3:L2:77:ARG:CZ	6:M2:70:GLU:CG	2.95	0.41
6:M2:19:ASP:HB2	8:Y5:48:GLU:HG2	2.01	0.41
6:M2:66:GLY:HA2	1:h7:125:ALA:N	2.35	0.41
6:M2:83:ALA:HB1	6:M2:222:LYS:HE3	2.01	0.41
6:M2:130:ARG:HH11	12:F2:201:CYC:CGA	2.33	0.41
7:N2:4:ASN:ND2	12:F2:201:CYC:HBB1	2.35	0.41
7:N2:16:PHE:CD2	7:N2:67:PRO:HA	2.55	0.41
3:B1:65:ASP:OD1	3:B1:65:ASP:N	2.47	0.41
3:S4:82:CYS:CA	12:S4:202:CYC:CAC	2.66	0.41
2:G4:53:LYS:CE	11:aA:71:ILE:HG23	2.48	0.41
2:I4:14:SER:HB3	11:aA:170:PHE:HE2	1.85	0.41
12:J4:201:CYC:HMA1	11:aA:176:ASN:ND2	2.21	0.41
2:N4:63:PHE:O	2:N4:66:LEU:CB	2.68	0.41
2:N4:111:ALA:CB	5:Z4:34:LEU:HD12	2.22	0.41
3:O4:104:VAL:HA	5:Z4:61:LYS:HE3	2.00	0.41
12:O4:201:CYC:HBA2	5:Z4:50:LEU:CD1	2.36	0.41
3:Q4:77:ARG:CA	5:Z4:34:LEU:HD13	2.50	0.41
8:K5:8:ILE:O	8:K5:11:ALA:N	2.51	0.41
8:K5:151:PHE:CE1	1:V5:42:ALA:CB	3.04	0.41
8:M5:4:LEU:CD2	8:M5:26:ILE:HD13	2.47	0.41
8:M5:105:GLU:HG2	8:M5:110:ILE:HG23	2.02	0.41
3:Y4:89:ILE:CA	3:Y4:92:TYR:CD2	2.68	0.41
3:Y4:119:ALA:C	3:Y4:121:GLY:H	2.27	0.41
5:Z4:38:GLU:HA	5:Z4:39:PRO:HD2	1.75	0.41
1:B5:10:ASN:CG	10:k5:557:VAL:CA	2.93	0.41
8:E5:119:LEU:O	8:E5:120:GLN:C	2.64	0.41
8:I5:33:GLY:HA2	8:I5:36:ARG:HB2	2.01	0.41
1:J5:6:THR:HA	1:J5:9:ILE:HB	2.03	0.41
8:e5:9:VAL:O	8:e5:9:VAL:HG13	2.20	0.41
8:Q5:8:ILE:CG2	1:R5:94:TYR:CB	2.98	0.41
8:S5:66:VAL:HG11	8:E7:68:PRO:CG	2.22	0.41
8:W5:8:ILE:CG2	1:X5:94:TYR:CB	2.98	0.41
8:Y5:105:GLU:HG2	8:Y5:110:ILE:HG23	2.02	0.41
3:J6:24:LEU:CD2	2:I6:38:MET:HE3	2.50	0.41
6:M6:147:ASP:OD1	6:M6:147:ASP:N	2.52	0.41
9:z5:6:LYS:NZ	9:z5:29:THR:HG21	2.33	0.41
9:z5:23:LEU:CA	9:z5:25:ASN:H	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:i5:16:ARG:HE	9:i5:16:ARG:HA	1.82	0.41
10:j5:232:ARG:NH1	10:j5:232:ARG:CB	2.82	0.41
10:j5:277:ILE:HA	10:j5:284:PRO:HB3	2.02	0.41
10:j5:837:LEU:HD23	10:j5:837:LEU:HA	1.81	0.41
10:j5:947:MET:HE3	10:j5:948:SER:HB3	2.03	0.41
10:j5:967:VAL:HG21	1:v7:10:ASN:OD1	2.20	0.41
10:k5:431:GLN:HA	10:k5:431:GLN:HE21	1.84	0.41
10:k5:623:VAL:O	10:k5:623:VAL:CG1	2.68	0.41
10:k5:889:LEU:HG	1:D7:87:TYR:OH	2.19	0.41
10:k5:900:LEU:HA	10:k5:900:LEU:HD12	1.62	0.41
10:k5:1002:ARG:HA	10:k5:1007:VAL:CG1	2.50	0.41
10:k5:1069:ARG:NE	10:k5:1101:GLU:OE1	2.51	0.41
3:H6:3:ASP:H	3:H6:6:THR:HB	1.85	0.41
8:Q7:105:GLU:HG2	8:Q7:110:ILE:HG23	2.02	0.41
8:S7:64:ASP:OD2	8:I7:69:GLY:C	2.63	0.41
1:D7:89:LEU:HB2	1:D7:133:MET:HE1	2.03	0.41
8:I7:6:LYS:HZ1	8:W7:19:SER:CB	2.31	0.41
8:I7:15:ALA:CA	1:J7:90:ARG:CZ	2.98	0.41
8:i7:42:THR:HG21	8:i7:141:LEU:HD23	0.53	0.41
8:U7:52:LYS:HD2	11:a9:27:PHE:CD2	2.55	0.41
1:V7:76:ARG:HD3	8:W7:110:ILE:CD1	2.50	0.41
1:X7:8:VAL:HB	1:X7:27:LEU:HD21	2.03	0.41
1:X7:89:LEU:HB2	1:X7:133:MET:HE1	2.03	0.41
8:Y7:67:SER:O	8:Y7:68:PRO:C	2.63	0.41
3:D8:151:GLY:HA3	12:D8:201:CYC:CMD	2.51	0.41
1:l7:89:LEU:HB2	1:l7:133:MET:HE1	2.03	0.41
8:m7:7:ALA:HB1	8:m7:22:GLU:HB3	2.03	0.41
8:o7:67:SER:O	8:o7:68:PRO:C	2.63	0.41
12:r7:201:CYC:CMA	12:r7:201:CYC:NB	2.74	0.41
8:s7:18:LEU:CD1	1:t7:94:TYR:HE1	2.33	0.41
8:s7:33:GLY:HA2	8:s7:36:ARG:HB2	2.01	0.41
8:u7:105:GLU:HG2	8:u7:110:ILE:HG23	2.02	0.41
9:w7:15:LYS:CE	9:w7:16:ARG:HD3	2.50	0.41
2:K8:38:MET:HE2	2:K8:38:MET:HB3	1.81	0.41
4:M8:129:GLU:CA	4:M8:142:PHE:CZ	3.03	0.41
4:M8:164:ARG:NH2	4:M8:168:LEU:HD21	2.36	0.41
4:M8:231:THR:H	12:M8:301:CYC:CAB	2.21	0.41
12:P8:201:CYC:CMA	12:P8:201:CYC:NB	2.82	0.41
3:F1:3:ASP:H	3:F1:6:THR:HB	1.85	0.41
12:F1:201:CYC:CAA	4:M1:36:TYR:CE2	3.03	0.41
4:M9:6:THR:HG21	12:D9:201:CYC:HBB1	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:252:LEU:HD13	3:Z9:77:ARG:NH1	2.35	0.41
12:O9:201:CYC:CMA	12:O9:201:CYC:NB	2.82	0.41
12:Y8:201:CYC:CMD	12:Y8:201:CYC:NC	2.75	0.41
3:B9:151:GLY:HA3	12:B9:202:CYC:CMD	2.51	0.41
2:C9:38:MET:HE3	3:D9:24:LEU:CD2	2.49	0.41
2:E9:38:MET:HE3	3:F9:24:LEU:CD2	2.50	0.41
12:G9:201:CYC:CMA	12:G9:201:CYC:NB	2.82	0.41
2:I9:98:VAL:HG21	3:J9:19:LEU:CD1	2.42	0.41
3:R9:3:ASP:H	3:R9:6:THR:HB	1.85	0.41
3:Z9:151:GLY:HA3	12:Z9:201:CYC:CMD	2.51	0.41
11:a9:38:VAL:HA	11:a9:39:PRO:HD3	1.85	0.41
11:a9:91:THR:C	11:a9:92:LYS:HE3	2.40	0.41
11:a9:250:ARG:HA	11:a9:285:VAL:HG21	2.02	0.41
11:a9:351:THR:O	11:a9:353:ALA:HA	2.20	0.41
11:a9:365:LYS:HD3	11:a9:365:LYS:HA	1.35	0.41
11:a9:426:ARG:HD2	11:a9:490:ILE:HG23	1.99	0.41
11:aA:304:ALA:C	11:aA:306:GLY:N	2.78	0.41
11:aA:586:LEU:HD13	11:aA:586:LEU:HA	1.43	0.41
11:aA:763:PHE:CE1	11:aA:772:ARG:NH2	2.88	0.41
4:M1:3:VAL:O	4:M1:3:VAL:HG12	2.21	0.41
4:M1:102:VAL:O	4:M1:102:VAL:CG1	2.69	0.41
4:M1:144:ARG:CZ	5:N1:52:ARG:NH2	2.82	0.41
5:N1:56:GLU:OE2	5:N1:59:ARG:NH2	2.51	0.41
12:T1:301:CYC:HC	12:T1:301:CYC:HMD3	1.82	0.41
3:B2:77:ARG:HD2	3:B2:77:ARG:O	2.21	0.41
3:DA:151:GLY:HA3	12:DA:202:CYC:CMD	2.51	0.41
3:JA:3:ASP:H	3:JA:6:THR:HB	1.84	0.41
4:MA:19:MET:HE2	4:MA:59:ILE:CD1	2.46	0.41
4:MA:102:VAL:O	4:MA:102:VAL:CG1	2.69	0.41
4:MA:164:ARG:NH2	4:MA:168:LEU:HD21	2.36	0.41
4:MA:188:LEU:CG	3:VA:84:ARG:CZ	2.84	0.41
3:PA:151:GLY:HA3	12:PA:202:CYC:CMD	2.51	0.41
12:PA:201:CYC:HB	12:PA:201:CYC:CMA	2.25	0.41
2:QA:68:GLN:CB	2:QA:69:PRO:HD3	2.46	0.41
3:TA:25:ASN:OD1	2:X4:68:GLN:CB	2.64	0.41
3:XA:3:ASP:H	3:XA:6:THR:HB	1.85	0.41
2:A1:34:ALA:HB3	3:B1:31:VAL:CG1	2.39	0.41
2:G2:38:MET:HE3	3:H2:24:LEU:CD2	2.49	0.41
3:L2:151:GLY:HA3	12:L2:202:CYC:CMD	2.51	0.41
6:M2:57:GLU:OE2	8:i7:76:LYS:CE	2.67	0.41
3:B4:86:MET:CA	12:B4:202:CYC:CBC	2.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M3:262:ASP:OD1	4:M3:263:PRO:CD	2.68	0.41
3:F4:107:ASP:OD1	3:F4:108:ARG:HG3	2.20	0.41
2:I4:111:ALA:HA	11:aA:133:LEU:HD13	2.03	0.41
4:M4:184:ILE:HA	4:M4:184:ILE:HD13	1.65	0.41
4:M4:190:ARG:HE	4:M4:190:ARG:HB2	1.71	0.41
4:M4:228:SER:HA	3:Y4:91:ARG:NH2	2.31	0.41
3:Q4:3:ASP:H	3:Q4:6:THR:HB	1.84	0.41
3:Q4:91:ARG:HH22	3:Q4:92:TYR:HB3	1.85	0.41
8:K5:22:GLU:O	8:K5:26:ILE:HG13	2.20	0.41
8:M5:25:ARG:NE	8:A5:25:ARG:NH2	2.59	0.41
8:A5:67:SER:O	8:A5:68:PRO:C	2.63	0.41
8:C5:8:ILE:O	8:C5:8:ILE:CG2	2.67	0.41
8:c5:67:SER:O	8:c5:68:PRO:C	2.63	0.41
8:W5:105:GLU:HG2	8:W5:110:ILE:HG23	2.03	0.41
1:Z5:89:LEU:HB2	1:Z5:133:MET:HE1	2.03	0.41
1:b5:5:ILE:HD12	10:k5:46:PHE:HZ	1.49	0.41
8:A7:22:GLU:O	8:A7:26:ILE:HG13	2.20	0.41
10:j5:141:GLU:O	10:j5:142:PRO:C	2.59	0.41
10:j5:797:ASN:HB2	12:T7:201:CYC:HBA2	2.01	0.41
10:j5:1030:ILE:HD12	10:j5:1030:ILE:HA	1.46	0.41
10:j5:1081:VAL:CG1	12:r7:201:CYC:HMA2	2.30	0.41
10:k5:853:LEU:O	10:k5:853:LEU:CG	2.68	0.41
10:k5:1005:LEU:HD13	10:k5:1016:LEU:HD22	2.01	0.41
10:k5:1052:PRO:O	10:k5:1053:TYR:CD2	2.73	0.41
10:k5:1084:LEU:HD22	10:k5:1092:ALA:HB2	2.02	0.41
10:k5:1128:VAL:O	10:k5:1128:VAL:CG1	2.68	0.41
10:k5:1153:VAL:HG11	1:p7:59:ALA:O	2.20	0.41
12:I6:201:CYC:CMA	12:I6:201:CYC:NB	2.82	0.41
12:D1:201:CYC:HB	12:D1:201:CYC:HMA3	1.84	0.41
8:O7:105:GLU:HG2	8:O7:110:ILE:HG23	2.02	0.41
1:F7:89:LEU:HB2	1:F7:133:MET:HE1	2.03	0.41
8:G7:67:SER:O	8:G7:68:PRO:C	2.63	0.41
8:I7:21:GLY:C	8:I7:23:LEU:H	2.29	0.41
1:J7:89:LEU:HB2	1:J7:133:MET:HE1	2.03	0.41
1:h7:75:THR:CG2	8:i7:112:VAL:HG23	2.47	0.41
8:i7:112:VAL:C	8:i7:114:GLU:N	2.76	0.41
1:Z7:89:LEU:HB2	1:Z7:133:MET:HE1	2.02	0.41
8:a7:37:LEU:HD11	1:b7:27:LEU:CB	2.51	0.41
8:c7:42:THR:HG21	8:c7:141:LEU:HD23	0.53	0.41
8:c7:94:TYR:HB3	1:d7:9:ILE:HD13	2.03	0.41
8:m7:67:SER:O	8:m7:68:PRO:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:o7:105:GLU:HG2	8:o7:110:ILE:HG23	2.02	0.41
1:p7:136:VAL:HA	11:a9:342:ARG:HH11	1.85	0.41
8:u7:17:TYR:CD2	1:v7:93:THR:HB	2.53	0.41
9:x7:11:ILE:HD11	9:x7:28:PHE:HE1	1.86	0.41
9:x7:14:LEU:C	9:x7:14:LEU:CD1	2.93	0.41
3:F8:111:ASN:OD1	3:F8:112:GLY:N	2.52	0.41
4:M8:145:LEU:HA	4:M8:145:LEU:HD23	1.88	0.41
12:O8:202:CYC:HB	12:O8:202:CYC:HMA3	1.84	0.41
12:O8:202:CYC:NC	12:O8:202:CYC:HMD3	2.35	0.41
3:F1:119:ALA:HB2	4:M1:41:ASN:ND2	2.34	0.41
2:O9:60:TYR:CZ	2:O9:79:GLN:HG2	2.56	0.41
2:E9:102:THR:HG21	2:I9:20:ASN:HD22	1.85	0.41
2:I9:12:ALA:HB1	3:J9:95:TYR:CE1	2.56	0.41
3:J9:88:ILE:HG21	11:a9:512:TYR:CE2	2.56	0.41
11:a9:110:PHE:CD1	11:a9:115:VAL:CG2	3.04	0.41
11:a9:337:GLU:HG2	11:a9:339:GLU:HG2	2.03	0.41
11:a9:595:ARG:HA	11:a9:595:ARG:HD2	1.75	0.41
11:aA:516:GLN:HG3	11:aA:516:GLN:O	2.17	0.41
4:M1:28:HIS:CD2	4:M1:35:THR:HG23	2.55	0.41
4:M1:274:VAL:OXT	4:M1:274:VAL:HG12	2.20	0.41
3:B2:77:ARG:O	3:B2:77:ARG:CD	2.69	0.41
3:B2:151:GLY:HA3	12:B2:201:CYC:CMD	2.51	0.41
1:A:72:MET:HE2	1:A:72:MET:HB3	1.87	0.41
4:MA:52:LEU:O	4:MA:52:LEU:CD2	2.69	0.41
4:MA:271:ARG:NH2	3:VA:78:ARG:NH1	2.68	0.41
4:MA:274:VAL:OXT	3:VA:77:ARG:NH2	2.53	0.41
2:OA:60:TYR:CZ	2:OA:79:GLN:HG2	2.56	0.41
3:RA:3:ASP:H	3:RA:6:THR:HB	1.85	0.41
12:VA:201:CYC:HC	12:VA:201:CYC:HMD3	1.83	0.41
2:A1:30:ARG:NH1	3:B1:5:PHE:CE1	2.88	0.41
3:H2:151:GLY:HA3	12:H2:202:CYC:CMD	2.51	0.41
2:A3:49:ASP:O	2:A3:50:SER:C	2.62	0.41
3:Z3:3:ASP:H	3:Z3:6:THR:HB	1.84	0.41
3:Z3:151:GLY:HA3	12:Z3:202:CYC:CMD	2.51	0.41
5:N3:54:LEU:HB3	5:N3:55:PRO:HD3	2.02	0.41
2:O3:63:PHE:O	2:O3:66:LEU:CB	2.69	0.41
3:B1:151:GLY:HA3	12:B1:201:CYC:CMD	2.51	0.41
2:I4:14:SER:CA	11:aA:170:PHE:CE2	3.03	0.41
2:K4:38:MET:HE2	2:K4:38:MET:HB3	1.81	0.41
4:M4:3:VAL:HG12	4:M4:3:VAL:O	2.20	0.41
4:M4:52:LEU:O	4:M4:52:LEU:CD2	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M4:301:CYC:HMD1	3:Y4:78:ARG:HG2	2.02	0.41
3:O4:3:ASP:H	3:O4:6:THR:HB	1.84	0.41
3:Q4:85:ASP:CB	12:Z4:301:CYC:HBC1	2.50	0.41
12:N5:201:CYC:CMA	12:N5:201:CYC:NB	2.74	0.41
8:O5:6:LYS:NZ	8:E5:22:GLU:OE2	2.52	0.41
5:Z4:54:LEU:HB3	5:Z4:55:PRO:HD3	2.02	0.41
8:A5:105:GLU:HG2	8:A5:110:ILE:HG23	2.02	0.41
8:A5:126:VAL:HG23	12:A5:201:CYC:HMC3	2.03	0.41
8:G5:12:ASP:OD2	1:H5:91:TYR:HE1	2.03	0.41
1:d5:62:TYR:HH	12:e5:201:CYC:CGD	2.33	0.41
1:f5:19:LEU:HD12	10:j5:172:LEU:HD12	1.80	0.41
8:Q5:105:GLU:HG2	8:Q5:110:ILE:HG23	2.02	0.41
1:R5:87:TYR:HE1	10:k5:521:GLY:HA3	1.86	0.41
1:Z5:64:ASP:CB	10:k5:705:THR:HG21	2.45	0.41
6:M6:43:TRP:CE2	8:c7:56:ASP:OD2	2.73	0.41
10:j5:19:THR:O	10:j5:21:MET:N	2.53	0.41
10:j5:283:ARG:C	10:j5:283:ARG:CD	2.84	0.41
10:j5:868:ASP:HB3	9:w7:43:ARG:HD2	2.02	0.41
10:k5:277:ILE:HG21	10:k5:284:PRO:HD3	2.01	0.41
10:k5:837:LEU:HD23	10:k5:837:LEU:HA	1.81	0.41
10:k5:1119:LEU:HD21	1:n7:87:TYR:CE1	2.55	0.41
3:B6:77:ARG:HD2	3:B6:77:ARG:HA	1.59	0.41
8:O7:22:GLU:HA	8:O7:25:ARG:CG	2.49	0.41
8:O7:102:THR:CB	8:O7:103:PRO:HD3	2.33	0.41
8:C7:105:GLU:HG2	8:C7:110:ILE:HG23	2.02	0.41
8:E7:121:THR:HG23	12:E7:201:CYC:NC	2.35	0.41
1:L7:89:LEU:HB2	1:L7:133:MET:HE1	2.03	0.41
12:L7:201:CYC:HC	12:L7:201:CYC:CMD	2.13	0.41
12:B8:201:CYC:HB	12:B8:201:CYC:HMA3	1.84	0.41
8:o7:23:LEU:HA	1:p7:38:VAL:HG21	1.97	0.41
8:o7:66:VAL:O	8:o7:66:VAL:CG1	2.66	0.41
1:r7:89:LEU:HB2	1:r7:133:MET:HE1	2.03	0.41
8:s7:15:ALA:CA	1:t7:90:ARG:CZ	2.98	0.41
1:t7:89:LEU:HB2	1:t7:133:MET:HE1	2.03	0.41
8:u7:27:LYS:CE	1:v7:35:ALA:CA	2.80	0.41
2:G8:138:VAL:O	2:G8:138:VAL:CG1	2.67	0.41
2:I8:14:SER:HB3	11:a9:170:PHE:HE2	1.86	0.41
3:L8:151:GLY:HA3	12:L8:201:CYC:CMD	2.51	0.41
4:M8:61:ASN:CG	4:M8:62:LYS:HD3	2.45	0.41
4:M8:201:ASP:OD2	5:Z8:56:GLU:CD	2.63	0.41
2:N8:60:TYR:CZ	2:N8:79:GLN:HG2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q8:84:ARG:CG	5:Z8:31:TRP:CE2	2.73	0.41
3:L9:3:ASP:H	3:L9:6:THR:HB	1.85	0.41
3:L9:113:LEU:O	3:L9:113:LEU:CD1	2.69	0.41
3:L9:151:GLY:HA3	12:L9:201:CYC:CMD	2.51	0.41
12:L9:201:CYC:HB	12:L9:201:CYC:HMA3	1.84	0.41
4:M9:13:LYS:HD2	4:M9:13:LYS:HA	1.86	0.41
4:M9:35:THR:CB	3:B9:84:ARG:CZ	2.99	0.41
4:M9:118:TYR:CD1	3:Z9:84:ARG:NH2	2.89	0.41
5:Z8:38:GLU:C	12:Z8:301:CYC:CMB	2.94	0.41
2:A9:25:GLN:HG3	2:K9:33:ARG:HG2	1.99	0.41
3:B9:3:ASP:H	3:B9:6:THR:HB	1.84	0.41
2:I9:18:PHE:CE2	3:J9:48:ALA:HB2	2.55	0.41
3:T9:151:GLY:HA3	12:T9:302:CYC:CMD	2.51	0.41
11:a9:95:ILE:O	11:a9:95:ILE:CG2	2.69	0.41
11:a9:308:LEU:HD23	11:a9:312:ASP:HB3	2.02	0.41
11:a9:370:ALA:CB	11:a9:531:ASP:OD2	2.69	0.41
11:a9:412:VAL:O	11:a9:415:GLU:OE1	2.38	0.41
11:a9:800:THR:O	11:a9:800:THR:OG1	2.32	0.41
11:aA:275:THR:O	11:aA:276:SER:C	2.63	0.41
11:aA:308:LEU:HD23	11:aA:312:ASP:HB3	2.02	0.41
11:aA:327:SER:OG	11:aA:328:GLN:NE2	2.53	0.41
11:aA:425:VAL:HG21	11:aA:502:ASN:C	2.46	0.41
4:M1:57:THR:O	4:M1:57:THR:HG22	2.19	0.41
4:M1:163:ASN:ND2	12:Z1:202:CYC:CMA	2.83	0.41
4:M1:246:ALA:HB2	3:X1:109:CYS:O	2.20	0.41
3:V1:3:ASP:H	3:V1:6:THR:HB	1.84	0.41
3:B2:3:ASP:H	3:B2:6:THR:HB	1.85	0.41
12:D2:202:CYC:HMD3	12:D2:202:CYC:NC	2.35	0.41
4:MA:4:LEU:HD12	4:MA:4:LEU:C	2.45	0.41
4:MA:188:LEU:HG	3:VA:84:ARG:NH1	2.33	0.41
5:NA:50:LEU:CD1	12:TA:301:CYC:O1D	2.69	0.41
12:VA:202:CYC:HB	12:VA:202:CYC:HMA3	1.84	0.41
3:R1:151:GLY:HA3	12:R1:202:CYC:CMD	2.51	0.41
3:H3:151:GLY:HA3	12:H3:201:CYC:CMD	2.51	0.41
2:G2:38:MET:HE2	2:G2:38:MET:HB3	1.81	0.41
6:M2:34:ARG:CD	8:O5:52:LYS:CD	2.96	0.41
3:B3:111:ASN:HD21	4:M3:73:ASP:HA	1.85	0.41
3:B3:125:ARG:HD2	3:X3:14:LEU:HD11	2.03	0.41
3:F3:113:LEU:HD13	4:M3:38:PRO:HB3	2.02	0.41
12:F3:202:CYC:HMD3	12:F3:202:CYC:NC	2.35	0.41
12:Z3:201:CYC:CGA	4:M3:185:ALA:HA	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L3:65:ASP:OD1	3:L3:65:ASP:N	2.47	0.41
4:M3:21:LEU:C	4:M3:21:LEU:CD1	2.94	0.41
4:M3:132:LEU:HD12	4:M3:137:ILE:HD12	2.01	0.41
3:W4:151:GLY:HA3	12:W4:202:CYC:CMD	2.51	0.41
3:H4:1:MET:H2	11:aA:96:THR:HG21	1.85	0.41
3:H4:151:GLY:HA3	12:H4:202:CYC:CMD	2.51	0.41
3:L4:151:GLY:HA3	12:L4:201:CYC:CMD	2.51	0.41
4:M4:4:LEU:HD12	4:M4:4:LEU:C	2.45	0.41
4:M4:21:LEU:C	4:M4:21:LEU:CD1	2.94	0.41
4:M4:100:SER:N	3:Q4:1:MET:HE3	2.03	0.41
4:M4:164:ARG:NH2	4:M4:168:LEU:HD21	2.36	0.41
12:M4:301:CYC:C2B	3:Y4:88:ILE:HD11	2.51	0.41
2:N4:30:ARG:NH1	3:O4:5:PHE:CE1	2.88	0.41
2:N4:49:ASP:O	2:N4:50:SER:C	2.62	0.41
12:N4:201:CYC:CMA	12:N4:201:CYC:NB	2.82	0.41
3:Q4:85:ASP:CB	12:Z4:301:CYC:HBC3	2.41	0.41
12:Q4:201:CYC:HB	12:Q4:201:CYC:HMA3	1.83	0.41
8:K5:67:SER:O	8:K5:68:PRO:C	2.63	0.41
8:M5:66:VAL:CG1	8:M5:66:VAL:O	2.66	0.41
8:M5:67:SER:O	8:M5:68:PRO:C	2.63	0.41
12:N5:201:CYC:OB	10:k5:482:GLN:HB2	2.20	0.41
8:O5:24:ASP:O	8:O5:25:ARG:C	2.64	0.41
3:Y4:3:ASP:H	3:Y4:6:THR:HB	1.85	0.41
1:D5:6:THR:HA	1:D5:9:ILE:HB	2.03	0.41
1:F5:72:MET:HB3	1:F5:72:MET:HE2	1.87	0.41
8:G5:105:GLU:HG2	8:G5:110:ILE:HG23	2.03	0.41
1:H5:51:ILE:HG22	1:H5:133:MET:CE	2.51	0.41
8:I5:27:LYS:CA	8:I5:30:VAL:CG2	2.79	0.41
1:J5:51:ILE:HG22	1:J5:133:MET:CE	2.51	0.41
1:d5:89:LEU:HB2	1:d5:133:MET:HE1	2.03	0.41
8:W5:121:THR:HG23	12:W5:201:CYC:NC	2.35	0.41
8:Y5:120:GLN:CG	1:b5:53:LYS:NZ	2.78	0.41
2:K6:38:MET:HE3	3:L6:24:LEU:CD2	2.50	0.41
6:M6:251:LYS:NZ	3:H6:120:LEU:C	2.77	0.41
6:M6:273:PHE:CD1	1:d7:128:GLY:HA2	2.55	0.41
9:z5:8:THR:HB	9:z5:53:SER:H	1.85	0.41
9:i5:45:GLN:HG2	9:i5:45:GLN:H	1.66	0.41
10:j5:298:ARG:HD3	10:j5:308:ASP:OD2	2.21	0.41
10:j5:440:TYR:N	10:j5:440:TYR:CD1	2.84	0.41
10:j5:559:THR:HG22	10:j5:560:VAL:N	2.36	0.41
10:j5:568:ILE:O	10:j5:568:ILE:CG2	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:631:HIS:HB2	10:j5:664:MET:HE1	2.01	0.41
10:j5:1052:PRO:O	10:j5:1053:TYR:CD2	2.74	0.41
10:j5:1069:ARG:NE	10:j5:1101:GLU:OE1	2.51	0.41
10:k5:264:LEU:O	10:k5:264:LEU:CD2	2.69	0.41
8:O7:15:ALA:CA	1:P7:90:ARG:CZ	2.98	0.41
1:H7:136:VAL:CB	11:aA:563:PHE:CZ	3.03	0.41
8:I7:18:LEU:CD1	1:J7:94:TYR:HE1	2.34	0.41
8:I7:67:SER:O	8:I7:68:PRO:C	2.63	0.41
8:g7:25:ARG:HH21	8:u7:25:ARG:HD2	1.85	0.41
1:V7:89:LEU:HB2	1:V7:133:MET:HE1	2.03	0.41
8:c7:25:ARG:NH2	8:m7:6:LYS:HZ2	2.06	0.41
8:c7:112:VAL:C	8:c7:114:GLU:N	2.76	0.41
12:c7:201:CYC:HB	12:c7:201:CYC:CMA	2.21	0.41
3:B8:120:LEU:HD21	4:M8:52:LEU:CB	2.42	0.41
12:E8:201:CYC:CMA	12:E8:201:CYC:NB	2.81	0.41
8:q7:120:GLN:CD	1:v7:53:LYS:NZ	2.78	0.41
9:z7:44:ILE:HD13	9:z7:44:ILE:HG21	1.83	0.41
9:w7:16:ARG:NH2	9:w7:18:ARG:HG3	2.36	0.41
3:W8:151:GLY:HA3	12:W8:202:CYC:CMD	2.51	0.41
2:X8:16:GLY:O	4:M8:228:SER:CB	2.66	0.41
3:F8:110:LEU:O	4:M8:6:THR:N	2.33	0.41
4:M8:58:TYR:CA	4:M8:61:ASN:ND2	2.83	0.41
2:N8:63:PHE:O	2:N8:66:LEU:CB	2.68	0.41
5:N9:4:LEU:HD11	3:R9:111:ASN:HD22	1.83	0.41
5:N9:54:LEU:O	5:N9:54:LEU:HG	2.21	0.41
2:A9:63:PHE:O	2:A9:66:LEU:CB	2.69	0.41
3:H9:151:GLY:HA3	12:H9:201:CYC:CMD	2.51	0.41
12:H9:201:CYC:HB	12:H9:201:CYC:HMA3	1.83	0.41
2:K9:19:LEU:HD23	2:K9:19:LEU:HA	1.75	0.41
11:aA:392:ILE:O	11:aA:392:ILE:HG22	2.19	0.41
11:aA:415:GLU:CD	11:aA:415:GLU:N	2.72	0.41
11:aA:595:ARG:HA	11:aA:595:ARG:HD2	1.75	0.41
3:L1:3:ASP:H	3:L1:6:THR:HB	1.85	0.41
3:L1:151:GLY:HA3	12:L1:201:CYC:CMD	2.51	0.41
12:L1:201:CYC:HB	12:L1:201:CYC:HMA3	1.84	0.41
4:M1:132:LEU:CD1	4:M1:142:PHE:CB	2.95	0.41
5:N1:68:LEU:HA	5:N1:68:LEU:HD23	1.81	0.41
3:T1:3:ASP:H	3:T1:6:THR:HB	1.85	0.41
12:A2:201:CYC:CMA	12:A2:201:CYC:NB	2.82	0.41
1:Z:89:LEU:HB2	1:Z:133:MET:HE1	2.03	0.41
2:EA:38:MET:HE3	3:FA:24:LEU:CD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:IA:1:MET:HE2	2:IA:108:TYR:CE1	2.45	0.41
3:JA:116:THR:HA	11:aA:521:PHE:CD1	2.56	0.41
3:LA:97:LEU:HD11	3:LA:156:LEU:HD22	2.03	0.41
3:LA:107:ASP:C	3:LA:111:ASN:HB2	2.45	0.41
3:LA:113:LEU:O	3:LA:113:LEU:CD1	2.69	0.41
4:MA:274:VAL:OXT	4:MA:274:VAL:HG12	2.20	0.41
3:J3:111:ASN:ND2	11:a9:631:GLY:HA2	2.35	0.41
3:J3:151:GLY:HA3	12:J3:201:CYC:CMD	2.51	0.41
6:M2:283:VAL:CG1	6:M2:284:SER:N	2.83	0.41
3:D3:151:GLY:HA3	12:D3:201:CYC:CMD	2.51	0.41
12:A4:201:CYC:CMA	12:A4:201:CYC:NB	2.82	0.41
3:J4:151:GLY:HA3	12:J4:202:CYC:CMD	2.51	0.41
4:M4:13:LYS:HD2	4:M4:13:LYS:HA	1.86	0.41
4:M4:53:LEU:O	4:M4:53:LEU:CD1	2.69	0.41
4:M4:59:ILE:HD13	4:M4:59:ILE:HG21	1.67	0.41
4:M4:233:GLU:HG3	3:Y4:112:GLY:N	2.36	0.41
3:Q4:84:ARG:HE	5:Z4:29:HIS:CD2	2.39	0.41
3:Y4:89:ILE:CG1	3:Y4:92:TYR:CZ	3.04	0.41
5:Z4:38:GLU:CG	12:Z4:301:CYC:HMB2	2.50	0.41
1:B5:89:LEU:HB2	1:B5:133:MET:HE1	2.02	0.41
8:E5:67:SER:O	8:E5:68:PRO:C	2.63	0.41
8:c5:52:LYS:HG2	6:M6:15:ILE:HG12	2.02	0.41
8:e5:2:SER:HA	8:e5:100:ASP:HB3	2.01	0.41
8:e5:33:GLY:HA2	8:e5:36:ARG:HB2	2.01	0.41
8:W5:119:LEU:O	8:W5:120:GLN:C	2.64	0.41
1:Z5:66:THR:OG1	12:a5:201:CYC:O2A	2.26	0.41
8:a5:5:THR:C	8:a5:7:ALA:N	2.78	0.41
9:z5:8:THR:O	9:z5:51:VAL:HA	2.21	0.41
9:i5:8:THR:O	9:i5:51:VAL:HA	2.21	0.41
10:j5:87:ARG:O	10:j5:89:LYS:N	2.54	0.41
10:j5:802:VAL:O	10:j5:802:VAL:CG1	2.69	0.41
10:j5:827:LYS:O	10:j5:827:LYS:CG	2.68	0.41
10:j5:900:LEU:HA	10:j5:900:LEU:HD12	1.62	0.41
10:j5:953:LEU:CD1	8:u7:48:GLU:OE1	2.68	0.41
10:j5:1150:TYR:CD2	1:v7:70:GLY:HA2	2.56	0.41
10:k5:288:LEU:HA	10:k5:288:LEU:HD23	1.77	0.41
10:k5:305:PHE:O	10:k5:307:ARG:NH2	2.54	0.41
10:k5:1077:ILE:HG22	12:k5:1203:CYC:HBA2	1.99	0.41
3:D6:151:GLY:HA3	12:D6:202:CYC:CMD	2.51	0.41
3:H6:151:GLY:HA3	12:H6:202:CYC:CMD	2.51	0.41
3:D1:151:GLY:HA3	12:D1:201:CYC:CMD	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P7:51:ILE:HG22	1:P7:133:MET:CE	2.51	0.41
1:P7:89:LEU:HB2	1:P7:133:MET:HE1	2.03	0.41
1:B7:65:LEU:HB3	1:B7:72:MET:HE3	2.03	0.41
8:C7:18:LEU:CD1	1:D7:94:TYR:HE1	2.34	0.41
1:J7:51:ILE:HG22	1:J7:133:MET:CE	2.51	0.41
8:g7:105:GLU:HG2	8:g7:110:ILE:HG23	2.02	0.41
8:i7:112:VAL:C	8:i7:115:MET:H	2.28	0.41
8:i7:137:ALA:O	8:i7:139:SER:N	2.54	0.41
1:V7:75:THR:HB	8:W7:112:VAL:CA	2.50	0.41
8:Y7:22:GLU:O	8:Y7:26:ILE:HG13	2.20	0.41
1:Z7:51:ILE:HG22	1:Z7:133:MET:CE	2.51	0.41
1:b7:89:LEU:HB2	1:b7:133:MET:HE1	2.03	0.41
3:B8:116:THR:HG21	4:M8:53:LEU:HA	1.91	0.41
3:B8:151:GLY:HA3	12:B8:201:CYC:CMD	2.51	0.41
1:l7:51:ILE:HG22	1:l7:133:MET:CE	2.51	0.41
8:m7:15:ALA:CA	1:n7:90:ARG:CZ	2.98	0.41
8:q7:68:PRO:CB	11:aA:334:LYS:HZ2	2.32	0.41
1:r7:51:ILE:HG22	1:r7:133:MET:CE	2.51	0.41
1:r7:65:LEU:HB3	1:r7:72:MET:HE3	2.03	0.41
1:t7:51:ILE:HG22	1:t7:133:MET:CE	2.51	0.41
9:w7:10:CYS:O	9:w7:10:CYS:SG	2.78	0.41
9:w7:16:ARG:O	9:w7:16:ARG:CG	2.69	0.41
9:x7:32:VAL:CG2	9:x7:33:PRO:HD2	2.51	0.41
3:F8:1:MET:H3	4:M8:10:ARG:CB	2.19	0.41
2:G8:53:LYS:CE	11:a9:71:ILE:HG23	2.49	0.41
4:M9:52:LEU:O	4:M9:52:LEU:CD2	2.69	0.41
5:N9:14:LYS:HD3	5:N9:14:LYS:N	2.32	0.41
5:N9:23:SER:C	5:N9:25:THR:N	2.74	0.41
5:N9:50:LEU:HD11	3:T9:77:ARG:NH1	2.36	0.41
3:Y8:106:GLU:HA	3:Y8:110:LEU:HD12	2.03	0.41
5:Z8:29:HIS:ND1	5:Z8:31:TRP:N	2.68	0.41
5:Z8:54:LEU:HB3	5:Z8:55:PRO:HD3	2.02	0.41
2:A9:49:ASP:O	2:A9:50:SER:C	2.62	0.41
2:K9:22:THR:O	2:K9:22:THR:HG22	2.19	0.41
11:a9:328:GLN:NE2	11:a9:328:GLN:CA	2.83	0.41
11:a9:352:PRO:HB2	11:a9:354:VAL:N	2.36	0.41
11:aA:31:SER:OG	11:aA:34:ILE:CG2	2.68	0.41
11:aA:302:ASN:O	11:aA:303:GLY:C	2.63	0.41
11:aA:337:GLU:HG2	11:aA:339:GLU:HG2	2.03	0.41
11:aA:629:LYS:HA	11:aA:629:LYS:HZ2	1.81	0.41
11:aA:816:LEU:O	11:aA:816:LEU:CD2	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z1:151:GLY:HA3	12:Z1:201:CYC:CMD	2.51	0.41
2:A2:30:ARG:NH1	3:B2:5:PHE:CE1	2.88	0.41
2:A2:60:TYR:CZ	2:A2:79:GLN:HG2	2.56	0.41
2:A2:63:PHE:O	2:A2:66:LEU:CB	2.69	0.41
12:C2:201:CYC:CMA	12:C2:201:CYC:NB	2.81	0.41
1:A:66:THR:HG21	12:k5:1201:CYC:HBA2	2.03	0.41
2:AA:63:PHE:O	2:AA:66:LEU:CB	2.69	0.41
3:BA:14:LEU:HD11	3:XA:125:ARG:CD	2.51	0.41
2:EA:102:THR:HG21	2:IA:20:ASN:HD22	1.85	0.41
2:KA:90:LEU:O	2:KA:94:THR:HG23	2.21	0.41
4:MA:70:SER:O	4:MA:70:SER:OG	2.35	0.41
4:MA:78:GLY:HA3	4:MA:79:PRO:HD2	1.81	0.41
4:MA:222:ARG:NH1	4:MA:222:ARG:CG	2.72	0.41
5:NA:60:ILE:HD13	5:NA:60:ILE:HG21	1.74	0.41
3:PA:3:ASP:H	3:PA:6:THR:HB	1.85	0.41
3:TA:3:ASP:H	3:TA:6:THR:HB	1.84	0.41
3:TA:151:GLY:HA3	12:TA:302:CYC:CMD	2.51	0.41
3:VA:151:GLY:HA3	12:VA:202:CYC:CMD	2.51	0.41
3:H3:125:ARG:HH22	8:k7:41:GLN:NE2	2.18	0.41
3:J3:120:LEU:CD2	11:a9:800:THR:HG23	2.42	0.41
3:J2:108:ARG:CZ	6:M2:155:ASN:CA	2.99	0.41
6:M2:271:VAL:HG21	1:j7:127:VAL:HB	2.02	0.41
7:N2:2:TYR:CD1	7:N2:2:TYR:N	2.73	0.41
12:A3:201:CYC:CMA	12:A3:201:CYC:NB	2.82	0.41
3:F3:119:ALA:HB2	4:M3:41:ASN:ND2	2.34	0.41
12:F3:201:CYC:CAA	4:M3:36:TYR:CE2	3.03	0.41
2:A4:19:LEU:HD13	3:B4:98:LEU:HD22	2.03	0.41
3:B4:125:ARG:HD2	3:W4:14:LEU:CD1	2.50	0.41
3:B4:151:GLY:HA3	12:B4:201:CYC:CMD	2.51	0.41
12:B4:202:CYC:O2D	4:M4:50:ASP:CA	2.68	0.41
4:M3:23:PRO:HB2	4:M3:34:ASP:HB3	2.02	0.41
4:M3:164:ARG:NH2	4:M3:168:LEU:HD21	2.36	0.41
4:M3:218:VAL:HG23	4:M3:218:VAL:H	1.66	0.41
5:N3:39:PRO:CA	3:T3:116:THR:OG1	2.69	0.41
2:O3:28:ASN:HB2	12:P3:202:CYC:OB	2.21	0.41
2:O3:60:TYR:CZ	2:O3:79:GLN:HG2	2.56	0.41
3:V3:151:GLY:HA3	12:V3:202:CYC:CMD	2.51	0.41
3:X3:151:GLY:HA3	12:X3:202:CYC:CMD	2.51	0.41
3:S4:120:LEU:CD1	12:S4:202:CYC:HBD1	2.51	0.41
2:T4:90:LEU:O	2:T4:94:THR:HG23	2.21	0.41
3:F4:84:ARG:HG3	11:aA:139:ILE:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F4:151:GLY:HA3	12:F4:201:CYC:CMD	2.51	0.41
4:M4:94:TRP:HB3	3:Q4:88:ILE:CG1	2.51	0.41
4:M4:171:LYS:HE2	4:M4:221:TYR:OH	2.21	0.41
4:M4:226:SER:HB2	3:Y4:85:ASP:CG	2.23	0.41
4:M4:274:VAL:HG12	4:M4:274:VAL:OXT	2.21	0.41
2:N4:60:TYR:CD2	2:N4:67:THR:CG2	3.04	0.41
2:N4:90:LEU:O	2:N4:94:THR:HG23	2.21	0.41
3:Q4:117:TYR:CD1	5:Z4:39:PRO:HB2	2.56	0.41
3:Q4:151:GLY:HA3	12:Q4:201:CYC:CMD	2.51	0.41
8:K5:115:MET:O	8:K5:119:LEU:HG	2.21	0.41
1:L5:72:MET:HB3	1:L5:72:MET:HE2	1.87	0.41
8:M5:14:GLU:HG2	10:k5:538:PHE:HZ	1.82	0.41
8:O5:24:ASP:C	8:O5:26:ILE:N	2.79	0.41
8:O5:33:GLY:HA2	8:O5:36:ARG:HB2	2.01	0.41
3:Y4:89:ILE:HG21	3:Y4:92:TYR:OH	2.01	0.41
5:Z4:53:LEU:HA	5:Z4:53:LEU:HD23	1.88	0.41
1:B5:51:ILE:HG22	1:B5:133:MET:CE	2.51	0.41
8:C5:8:ILE:O	8:C5:8:ILE:HG22	2.20	0.41
8:C5:9:VAL:O	8:C5:9:VAL:HG13	2.20	0.41
8:C5:18:LEU:HD12	8:C5:18:LEU:N	2.36	0.41
8:C5:105:GLU:HG2	8:C5:110:ILE:HG23	2.02	0.41
1:F5:8:VAL:HB	1:F5:27:LEU:HD21	2.02	0.41
8:G5:88:TYR:OH	12:G5:201:CYC:CMB	2.68	0.41
8:G5:88:TYR:CZ	12:G5:201:CYC:CMB	3.03	0.41
8:I5:2:SER:HA	8:I5:100:ASP:HB3	2.01	0.41
8:c5:14:GLU:HG2	10:j5:399:TYR:HE2	1.86	0.41
1:d5:51:ILE:HG22	1:d5:133:MET:CE	2.51	0.41
8:e5:95:GLY:HA3	8:e5:104:ILE:HD11	2.01	0.41
1:P5:87:TYR:OH	10:k5:649:PHE:CE1	2.57	0.41
8:U5:13:ALA:O	10:j5:656:GLY:HA3	2.21	0.41
8:W5:8:ILE:O	8:W5:11:ALA:N	2.51	0.41
8:W5:22:GLU:O	8:W5:26:ILE:HG13	2.20	0.41
1:Z5:51:ILE:HG22	1:Z5:133:MET:CE	2.51	0.41
8:a5:105:GLU:HG2	8:a5:110:ILE:HG23	2.02	0.41
3:J6:108:ARG:CZ	6:M6:155:ASN:CA	2.99	0.41
2:K6:14:SER:HA	6:M6:226:ASN:CB	2.38	0.41
7:N6:16:PHE:CD2	7:N6:67:PRO:HA	2.55	0.41
9:i5:16:ARG:NH2	10:j5:527:SER:HB2	2.35	0.41
9:i5:24:GLN:HE21	9:i5:24:GLN:HB3	1.57	0.41
10:j5:352:ILE:CG2	10:j5:353:ASN:N	2.84	0.41
10:j5:538:PHE:HB3	10:j5:567:LEU:CD2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:j5:975:ARG:HD3	10:j5:1116:TYR:CE2	2.56	0.41
10:k5:17:PHE:CD1	10:k5:19:THR:CG2	3.02	0.41
10:k5:204:LEU:HD23	10:k5:204:LEU:HA	1.90	0.41
10:k5:388:ARG:HA	10:k5:394:PRO:CG	2.46	0.41
10:k5:406:ILE:O	10:k5:406:ILE:HG22	2.20	0.41
10:k5:631:HIS:CA	10:k5:664:MET:HE1	2.50	0.41
10:k5:722:ILE:HD13	10:k5:722:ILE:HG21	1.79	0.41
10:k5:830:GLU:O	10:k5:830:GLU:HG3	2.20	0.41
10:k5:867:VAL:O	10:k5:867:VAL:HG13	2.21	0.41
10:k5:919:ILE:H	10:k5:919:ILE:HG12	1.62	0.41
10:k5:942:LYS:HE2	10:k5:942:LYS:HB3	1.79	0.41
10:k5:970:GLY:H	1:n7:77:ARG:HH22	1.55	0.41
10:k5:1071:PRO:CD	10:k5:1071:PRO:O	2.65	0.41
2:A6:60:TYR:CZ	2:A6:79:GLN:HG2	2.56	0.41
3:D6:3:ASP:H	3:D6:6:THR:HB	1.85	0.41
3:F6:151:GLY:HA3	12:F6:202:CYC:CMD	2.51	0.41
12:P7:201:CYC:HBB1	9:z7:21:ARG:HG3	2.02	0.41
12:Q7:201:CYC:HB	12:Q7:201:CYC:CMA	2.21	0.41
1:B7:51:ILE:HG22	1:B7:133:MET:CE	2.51	0.41
8:C7:15:ALA:CA	1:D7:90:ARG:CZ	2.98	0.41
1:D7:51:ILE:HG22	1:D7:133:MET:CE	2.51	0.41
8:E7:105:GLU:HG2	8:E7:110:ILE:HG23	2.02	0.41
12:F7:201:CYC:HC	12:F7:201:CYC:CMD	2.13	0.41
8:G7:4:LEU:CD2	8:G7:26:ILE:HD13	2.47	0.41
8:G7:22:GLU:O	8:G7:26:ILE:HG13	2.20	0.41
8:G7:105:GLU:HG2	8:G7:110:ILE:HG23	2.02	0.41
12:J7:201:CYC:HC	12:J7:201:CYC:CMD	2.14	0.41
1:L7:65:LEU:HB3	1:L7:72:MET:HE3	2.03	0.41
8:M7:4:LEU:CD2	8:M7:26:ILE:HD13	2.47	0.41
8:g7:36:ARG:NH1	8:u7:24:ASP:OD2	2.54	0.41
8:g7:37:LEU:HD11	1:h7:27:LEU:CB	2.51	0.41
1:h7:37:ARG:HG2	1:h7:37:ARG:HH11	1.85	0.41
8:i7:12:ASP:CG	9:y7:46:LYS:HZ1	2.21	0.41
8:i7:67:SER:O	8:i7:68:PRO:C	2.63	0.41
8:i7:159:ALA:C	8:i7:161:GLN:H	2.29	0.41
1:T7:51:ILE:HG22	1:T7:133:MET:CE	2.51	0.41
8:U7:67:SER:O	8:U7:68:PRO:C	2.63	0.41
12:V7:201:CYC:CBB	9:w7:21:ARG:HA	2.49	0.41
1:Z7:72:MET:HE2	1:Z7:72:MET:HB3	1.87	0.41
8:a7:105:GLU:HG2	8:a7:110:ILE:HG23	2.02	0.41
8:c7:105:GLU:HG2	8:c7:110:ILE:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d7:89:LEU:HB2	1:d7:133:MET:HE1	2.03	0.41
8:e7:105:GLU:HG2	8:e7:110:ILE:HG23	2.02	0.41
1:f7:51:ILE:HG22	1:f7:133:MET:CE	2.51	0.41
1:f7:65:LEU:HB3	1:f7:72:MET:HE3	2.03	0.41
2:E1:90:LEU:O	2:E1:94:THR:HG23	2.21	0.41
2:A8:60:TYR:CD2	2:A8:67:THR:CG2	3.04	0.41
2:A8:63:PHE:O	2:A8:66:LEU:CB	2.69	0.41
2:E8:1:MET:C	4:M8:10:ARG:NH2	2.79	0.41
8:m7:18:LEU:CD1	1:n7:94:TYR:HE1	2.33	0.41
1:n7:89:LEU:HB2	1:n7:133:MET:HE1	2.03	0.41
1:p7:65:LEU:HB3	1:p7:72:MET:HE3	2.03	0.41
1:v7:51:ILE:HG22	1:v7:133:MET:CE	2.51	0.41
9:z7:15:LYS:O	9:z7:15:LYS:CG	2.69	0.41
9:y7:18:ARG:HE	9:y7:18:ARG:HB2	1.68	0.41
9:y7:30:LYS:O	9:y7:30:LYS:CG	2.69	0.41
3:F8:108:ARG:NE	4:M8:9:GLN:HB3	2.36	0.41
2:G8:90:LEU:O	2:G8:94:THR:HG23	2.21	0.41
3:J8:151:GLY:HA3	12:J8:202:CYC:CMD	2.51	0.41
2:K8:90:LEU:O	2:K8:94:THR:HG23	2.21	0.41
4:M8:59:ILE:HD13	4:M8:59:ILE:HG21	1.67	0.41
4:M8:98:ASP:N	3:Q8:108:ARG:HB2	2.36	0.41
4:M8:262:ASP:OD1	4:M8:263:PRO:CD	2.68	0.41
12:M8:302:CYC:CAC	3:S8:78:ARG:HA	2.39	0.41
3:O8:104:VAL:CB	5:Z8:61:LYS:HE3	2.46	0.41
3:O8:107:ASP:O	5:Z8:66:ARG:HA	2.21	0.41
3:O8:116:THR:N	5:Z8:70:ILE:CG2	2.84	0.41
3:Q8:78:ARG:CD	12:Z8:301:CYC:HMD3	2.50	0.41
3:Q8:151:GLY:HA3	12:Q8:201:CYC:CMD	2.51	0.41
3:L9:90:LEU:CD2	2:K9:18:PHE:CE1	3.03	0.41
4:M9:164:ARG:NH2	4:M9:168:LEU:HD21	2.36	0.41
4:M9:176:ARG:HG3	4:M9:176:ARG:NH1	2.36	0.41
4:M9:262:ASP:OD1	4:M9:263:PRO:CD	2.68	0.41
5:N9:50:LEU:CD1	12:T9:301:CYC:O1D	2.69	0.41
2:O9:60:TYR:CD2	2:O9:67:THR:CG2	3.04	0.41
2:O9:63:PHE:O	2:O9:66:LEU:CB	2.68	0.41
12:P9:202:CYC:HB	12:P9:202:CYC:HMA3	1.83	0.41
3:Y8:3:ASP:H	3:Y8:6:THR:HB	1.85	0.41
12:Y8:201:CYC:HB	12:Y8:201:CYC:HMA3	1.84	0.41
5:Z8:37:HIS:HB2	12:Z8:301:CYC:C2B	2.50	0.41
2:A9:30:ARG:NH1	3:B9:5:PHE:CE1	2.88	0.41
3:F9:36:LYS:HE2	3:F9:156:LEU:HD13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J9:116:THR:HA	11:a9:521:PHE:CD1	2.55	0.41
3:R9:151:GLY:HA3	12:R9:202:CYC:CMD	2.51	0.41
3:V9:151:GLY:HA3	12:V9:202:CYC:CMD	2.51	0.41
12:W9:201:CYC:CMA	12:W9:201:CYC:NB	2.81	0.41
11:a9:60:GLY:HA2	11:a9:64:ARG:HE	1.86	0.41
11:a9:293:LEU:O	11:a9:294:THR:C	2.64	0.41
11:a9:308:LEU:O	11:a9:309:ALA:C	2.62	0.41
11:a9:550:PHE:HD1	11:a9:550:PHE:HA	1.70	0.41
11:aA:20:PRO:HB2	11:aA:21:THR:H	1.64	0.41
11:aA:48:LEU:C	11:aA:48:LEU:CD1	2.84	0.41
11:aA:62:MET:O	11:aA:64:ARG:N	2.50	0.41
11:aA:110:PHE:CD1	11:aA:115:VAL:CG2	3.04	0.41
11:aA:308:LEU:O	11:aA:309:ALA:C	2.62	0.41
11:aA:399:ILE:O	11:aA:399:ILE:CG2	2.69	0.41
11:aA:467:GLN:HE22	11:aA:553:SER:HB3	1.86	0.41
11:aA:643:LEU:H	11:aA:643:LEU:CD1	2.04	0.41
3:H1:151:GLY:HA3	12:H1:202:CYC:CMD	2.51	0.41
3:J1:151:GLY:HA3	12:J1:201:CYC:CMD	2.51	0.41
4:M1:13:LYS:HD2	4:M1:13:LYS:HA	1.86	0.41
4:M1:21:LEU:C	4:M1:21:LEU:CD1	2.94	0.41
4:M1:144:ARG:NH2	5:N1:52:ARG:CZ	2.82	0.41
4:M1:144:ARG:HH21	5:N1:52:ARG:NH2	2.09	0.41
4:M1:158:PHE:CZ	2:Y1:10:ALA:HB1	2.56	0.41
4:M1:188:LEU:HD22	12:Z1:202:CYC:NB	2.33	0.41
4:M1:250:THR:O	4:M1:250:THR:HG22	2.19	0.41
5:N1:14:LYS:HE3	5:N1:50:LEU:HD23	2.02	0.41
5:N1:39:PRO:HA	3:T1:116:THR:OG1	2.20	0.41
3:V1:151:GLY:HA3	12:V1:202:CYC:CMD	2.51	0.41
2:A2:60:TYR:CD2	2:A2:67:THR:CG2	3.04	0.41
3:F2:78:ARG:O	12:F2:201:CYC:HMD1	2.21	0.41
2:EA:115:GLU:OE2	4:MA:33:LEU:HD21	2.11	0.41
3:HA:66:LEU:CD2	12:HA:202:CYC:HMC1	2.51	0.41
2:IA:12:ALA:HB1	3:JA:95:TYR:CE1	2.56	0.41
12:IA:201:CYC:CMA	12:IA:201:CYC:NB	2.81	0.41
3:JA:151:GLY:HA3	12:JA:201:CYC:CMD	2.51	0.41
5:NA:34:LEU:HB3	3:PA:84:ARG:HH11	1.86	0.41
2:QA:33:ARG:NH1	12:VA:202:CYC:NB	2.69	0.41
3:XA:151:GLY:HA3	12:XA:202:CYC:CMD	2.51	0.41
2:YA:90:LEU:O	2:YA:94:THR:HG23	2.21	0.41
2:A3:34:ALA:HB3	3:B3:31:VAL:CG1	2.39	0.41
2:A3:60:TYR:CZ	2:A3:79:GLN:HG2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A4:28:ASN:HB2	12:B4:201:CYC:OB	2.21	0.41
2:A4:60:TYR:CD2	2:A4:67:THR:CG2	3.04	0.41
3:B4:108:ARG:CA	4:M4:61:ASN:HB2	2.51	0.41
3:L3:108:ARG:O	11:a9:712:ASN:CG	2.52	0.41
4:M3:13:LYS:HA	4:M3:13:LYS:HD2	1.86	0.41
4:M3:52:LEU:O	4:M3:52:LEU:CD2	2.69	0.41
5:N3:26:LEU:HD23	5:N3:27:ALA:HB3	2.03	0.41
2:S3:38:MET:HE2	2:S3:38:MET:HB3	1.81	0.41
2:Y3:38:MET:HB3	2:Y3:38:MET:HE2	1.81	0.41
3:J4:108:ARG:HH22	11:aA:171:ARG:CG	2.32	0.41
4:M4:98:ASP:O	3:Q4:104:VAL:HB	2.20	0.41
12:M4:301:CYC:HAB2	3:Y4:92:TYR:CE2	2.55	0.41
8:K5:20:PRO:CA	8:U5:151:PHE:HB3	2.51	0.41
1:B5:110:ASN:CG	10:k5:547:ARG:HD3	2.46	0.41
8:C5:107:ILE:O	12:C5:201:CYC:HAB2	2.20	0.41
1:D5:73:TYR:HE1	12:E5:201:CYC:HBB2	1.85	0.41
8:G5:106:GLU:OE1	10:j5:557:VAL:CG2	2.68	0.41
1:H5:89:LEU:HB2	1:H5:133:MET:HE1	2.02	0.41
1:J5:89:LEU:HB2	1:J5:133:MET:HE1	2.03	0.41
2:C1:90:LEU:O	2:C1:94:THR:HG23	2.21	0.41
1:d5:65:LEU:HB3	1:d5:72:MET:HE3	2.03	0.41
1:P5:155:TYR:CE2	1:b5:113:LYS:HD2	2.56	0.41
1:R5:89:LEU:HB2	1:R5:133:MET:HE1	2.03	0.41
1:R5:110:ASN:OD1	10:k5:466:LEU:C	2.63	0.41
8:S5:90:ARG:NH1	1:T5:16:GLY:CA	2.81	0.41
1:X5:89:LEU:HB2	1:X5:133:MET:HE1	2.03	0.41
1:b5:8:VAL:HB	1:b5:27:LEU:HD21	2.03	0.41
1:b5:51:ILE:HG22	1:b5:133:MET:CE	2.51	0.41
10:j5:154:GLN:H	10:j5:154:GLN:HG3	1.71	0.41
10:j5:277:ILE:HG21	10:j5:284:PRO:HD3	2.01	0.41
10:j5:357:LEU:HG	10:j5:382:ILE:HD11	2.03	0.41
10:j5:388:ARG:CZ	10:j5:388:ARG:CB	2.87	0.41
10:j5:1045:TYR:OH	10:j5:1062:LEU:HD22	2.13	0.41
10:j5:1084:LEU:HD22	10:j5:1092:ALA:HB2	2.02	0.41
10:k5:156:SER:OG	12:k5:1201:CYC:CAC	2.66	0.41
10:k5:221:LYS:C	10:k5:221:LYS:HZ1	2.23	0.41
10:k5:245:ILE:H	10:k5:245:ILE:HG12	1.45	0.41
10:k5:462:TYR:HD1	10:k5:462:TYR:HA	1.63	0.41
10:k5:512:ASN:HD22	10:k5:682:GLU:HG2	1.86	0.41
10:k5:947:MET:HE3	10:k5:948:SER:HB3	2.02	0.41
10:k5:1019:SER:O	10:k5:1020:GLU:CB	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I6:90:LEU:O	2:I6:94:THR:HG23	2.21	0.41
8:Q7:119:LEU:O	8:Q7:120:GLN:C	2.64	0.41
1:R7:51:ILE:HG22	1:R7:133:MET:CE	2.51	0.41
1:D7:74:THR:HA	8:E7:107:ILE:O	2.21	0.41
8:I7:105:GLU:HG2	8:I7:110:ILE:HG23	2.02	0.41
8:K7:22:GLU:O	8:K7:26:ILE:HG13	2.20	0.41
1:L7:51:ILE:HG22	1:L7:133:MET:CE	2.51	0.41
8:g7:95:GLY:HA3	8:g7:104:ILE:HD11	2.02	0.41
8:i7:112:VAL:O	8:i7:116:TYR:N	2.41	0.41
1:j7:75:THR:HB	8:e7:112:VAL:HA	2.03	0.41
1:T7:65:LEU:HB3	1:T7:72:MET:HE3	2.03	0.41
1:d7:51:ILE:HG22	1:d7:133:MET:CE	2.51	0.41
2:E8:90:LEU:O	2:E8:94:THR:HG23	2.21	0.41
8:m7:18:LEU:CD1	1:n7:94:TYR:CE1	3.04	0.41
8:o7:90:ARG:CG	1:p7:18:TYR:CD1	3.04	0.41
8:u7:2:SER:CB	1:v7:5:ILE:CB	2.90	0.41
8:u7:77:MET:O	12:u7:201:CYC:HMD3	2.20	0.41
9:x7:15:LYS:O	9:x7:15:LYS:CG	2.69	0.41
9:y7:32:VAL:CG2	9:y7:33:PRO:HD2	2.51	0.41
2:X8:90:LEU:O	2:X8:94:THR:HG23	2.21	0.41
2:I8:38:MET:HE2	2:I8:38:MET:HB3	1.81	0.41
4:M8:230:GLN:C	12:M8:301:CYC:OB	2.63	0.41
12:M8:302:CYC:C4C	3:S8:78:ARG:HG2	2.52	0.41
3:O8:119:ALA:CB	5:Z8:72:GLU:CB	2.78	0.41
3:O8:151:GLY:HA3	12:O8:202:CYC:CMD	2.51	0.41
4:M9:145:LEU:HD23	4:M9:145:LEU:HA	1.89	0.41
4:M9:192:GLN:NE2	3:V9:87:GLU:CD	2.79	0.41
4:M9:232:VAL:H	4:M9:232:VAL:HG12	1.57	0.41
3:P9:151:GLY:HA3	12:P9:202:CYC:CMD	2.51	0.41
5:Z8:22:LEU:HD13	12:Z8:301:CYC:OB	2.00	0.41
5:Z8:54:LEU:O	5:Z8:54:LEU:HG	2.21	0.41
2:A9:38:MET:HE2	2:A9:38:MET:HB3	1.81	0.41
2:A9:60:TYR:CZ	2:A9:79:GLN:HG2	2.56	0.41
2:E9:90:LEU:O	2:E9:94:THR:HG23	2.21	0.41
2:I9:4:VAL:HG21	2:I9:30:ARG:HB2	2.02	0.41
2:K9:17:ARG:HB3	2:K9:17:ARG:HH11	1.81	0.41
3:X9:151:GLY:HA3	12:X9:202:CYC:CMD	2.51	0.41
11:a9:20:PRO:HB2	11:a9:21:THR:H	1.64	0.41
11:a9:239:TYR:CE1	12:a9:901:CYC:C3A	2.99	0.41
11:a9:418:LEU:HD12	11:a9:418:LEU:HA	1.96	0.41
11:a9:476:ARG:HE	11:a9:476:ARG:HB2	1.70	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:aA:54:ARG:HH11	11:aA:609:LEU:C	2.29	0.41
11:aA:351:THR:O	11:aA:351:THR:OG1	2.31	0.41
11:aA:418:LEU:CD1	11:aA:428:PHE:HB2	2.44	0.41
11:aA:430:ARG:O	11:aA:430:ARG:CG	2.69	0.41
11:aA:708:HIS:HA	3:L1:108:ARG:CZ	2.48	0.41
11:aA:710:THR:C	3:L1:107:ASP:O	2.64	0.41
11:aA:804:ARG:HH21	3:J1:121:GLY:CA	2.21	0.41
4:M1:139:VAL:O	4:M1:139:VAL:CG1	2.69	0.41
5:N1:26:LEU:HD23	5:N1:27:ALA:HB3	2.03	0.41
1:Z:73:TYR:OH	10:j5:162:TRP:CZ2	2.73	0.40
2:AA:28:ASN:HB2	12:BA:202:CYC:OB	2.21	0.40
3:HA:87:GLU:HB3	11:aA:478:HIS:HE1	1.86	0.40
4:MA:95:ALA:CB	5:NA:38:GLU:OE1	2.69	0.40
4:MA:204:ILE:O	4:MA:204:ILE:CG2	2.69	0.40
2:SA:90:LEU:O	2:SA:94:THR:HG23	2.22	0.40
2:UA:90:LEU:O	2:UA:94:THR:HG23	2.22	0.40
3:ZA:3:ASP:H	3:ZA:6:THR:HB	1.85	0.40
3:P1:3:ASP:H	3:P1:6:THR:HB	1.85	0.40
2:Q1:38:MET:HE2	2:Q1:38:MET:HB3	1.81	0.40
2:I3:38:MET:HE2	2:I3:38:MET:HB3	1.81	0.40
2:G2:90:LEU:O	2:G2:94:THR:HG23	2.21	0.40
2:K2:14:SER:HA	6:M2:226:ASN:CB	2.38	0.40
2:K2:90:LEU:O	2:K2:94:THR:HG23	2.21	0.40
3:L2:78:ARG:HH22	6:M2:70:GLU:CA	2.34	0.40
3:L2:125:ARG:HD2	1:h7:69:GLY:CA	2.51	0.40
3:D4:151:GLY:HA3	12:D4:201:CYC:CMD	2.51	0.40
3:L3:151:GLY:HA3	12:L3:201:CYC:CMD	2.51	0.40
4:M3:77:LEU:H	4:M3:77:LEU:HG	1.63	0.40
4:M3:245:ASP:O	12:X3:201:CYC:HBB3	2.19	0.40
3:B1:111:ASN:HD21	4:M1:73:ASP:HA	1.85	0.40
3:B1:125:ARG:HD2	3:X1:14:LEU:HD11	2.03	0.40
2:V4:90:LEU:O	2:V4:94:THR:HG23	2.21	0.40
3:F4:115:GLU:CD	4:M4:3:VAL:HG13	2.43	0.40
4:M4:57:THR:O	4:M4:57:THR:HG22	2.19	0.40
4:M4:139:VAL:O	4:M4:139:VAL:CG1	2.69	0.40
4:M4:190:ARG:HH12	4:M4:202:SER:HB2	1.68	0.40
1:L5:51:ILE:HG22	1:L5:133:MET:CE	2.51	0.40
1:L5:89:LEU:HB2	1:L5:133:MET:HE1	2.03	0.40
12:L5:201:CYC:HC	12:L5:201:CYC:CMD	2.13	0.40
5:Z4:37:HIS:CE1	12:Z4:301:CYC:C4D	3.04	0.40
8:C5:33:GLY:HA2	8:C5:36:ARG:HB2	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I5:9:VAL:O	8:I5:9:VAL:HG13	2.20	0.40
8:I5:18:LEU:HD12	8:I5:18:LEU:N	2.35	0.40
8:e5:8:ILE:HG21	8:e5:8:ILE:HD13	1.72	0.40
8:e5:34:GLU:OE1	8:e5:38:ARG:NH1	2.54	0.40
1:V5:65:LEU:HB3	1:V5:72:MET:HE3	2.03	0.40
1:X5:8:VAL:HB	1:X5:27:LEU:HD21	2.03	0.40
3:L6:65:ASP:OD2	1:b7:64:ASP:OD2	2.40	0.40
3:L6:78:ARG:HH22	6:M6:70:GLU:CA	2.34	0.40
8:A7:105:GLU:HG2	8:A7:110:ILE:HG23	2.02	0.40
9:z5:24:GLN:HE21	9:z5:24:GLN:HB3	1.56	0.40
10:j5:959:PHE:CD2	1:t7:67:ARG:NH1	2.88	0.40
10:j5:1025:LEU:HA	10:j5:1030:ILE:HG23	1.94	0.40
10:k5:278:TYR:HE2	10:k5:287:ASN:CG	2.30	0.40
10:k5:298:ARG:HD3	10:k5:308:ASP:OD2	2.21	0.40
10:k5:669:GLU:O	10:k5:669:GLU:CG	2.69	0.40
10:k5:879:ASP:O	10:k5:879:ASP:CG	2.64	0.40
10:k5:1034:GLU:OE2	10:k5:1037:ARG:NH2	2.39	0.40
10:k5:1043:GLU:CD	8:Y7:14:GLU:CG	2.94	0.40
10:k5:1146:THR:O	10:k5:1146:THR:CG2	2.69	0.40
3:B6:77:ARG:HD2	3:B6:77:ARG:O	2.21	0.40
8:K7:105:GLU:HG2	8:K7:110:ILE:HG23	2.02	0.40
8:i7:105:GLU:HG2	8:i7:110:ILE:HG23	2.02	0.40
1:V7:74:THR:HA	8:W7:107:ILE:O	2.21	0.40
1:X7:65:LEU:HB3	1:X7:72:MET:HE3	2.03	0.40
1:Z7:65:LEU:HB3	1:Z7:72:MET:HE3	2.03	0.40
1:d7:8:VAL:HB	1:d7:27:LEU:HD21	2.03	0.40
1:l7:65:LEU:HB3	1:l7:72:MET:HE3	2.03	0.40
8:o7:39:ILE:HD11	8:o7:145:ASP:CG	2.45	0.40
1:p7:51:ILE:HG22	1:p7:133:MET:CE	2.51	0.40
8:u7:38:ARG:HH11	8:u7:38:ARG:HD3	1.76	0.40
8:u7:98:ALA:CB	1:v7:9:ILE:HD11	2.38	0.40
9:z7:16:ARG:O	9:z7:16:ARG:CG	2.69	0.40
9:z7:21:ARG:O	9:z7:23:LEU:N	2.54	0.40
9:x7:52:LEU:HD23	9:x7:52:LEU:N	2.36	0.40
9:y7:12:PRO:O	9:y7:12:PRO:CD	2.69	0.40
3:U8:108:ARG:HB3	4:M8:246:ALA:CB	2.44	0.40
3:L8:69:PRO:C	3:L8:71:GLY:N	2.75	0.40
3:L9:84:ARG:NH2	11:a9:405:ILE:O	2.54	0.40
4:M9:21:LEU:C	4:M9:21:LEU:CD1	2.94	0.40
4:M9:85:VAL:O	4:M9:85:VAL:CG1	2.67	0.40
4:M9:95:ALA:CB	5:N9:38:GLU:OE1	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:120:LEU:HD23	4:M9:120:LEU:HA	1.89	0.40
4:M9:171:LYS:HE2	4:M9:221:TYR:OH	2.21	0.40
4:M9:273:ILE:HG22	2:W9:107:ASP:O	2.20	0.40
3:Y8:89:ILE:CG1	3:Y8:92:TYR:CZ	3.04	0.40
5:Z8:60:ILE:HD13	5:Z8:60:ILE:HG21	1.74	0.40
12:B9:202:CYC:HB	12:B9:202:CYC:HMA3	1.84	0.40
3:D9:151:GLY:HA3	12:D9:202:CYC:CMD	2.51	0.40
3:F9:36:LYS:C	3:F9:156:LEU:CD2	2.92	0.40
11:a9:427:GLU:HG3	11:a9:430:ARG:HD2	2.03	0.40
11:a9:816:LEU:O	11:a9:816:LEU:CD2	2.69	0.40
11:aA:368:ILE:HG21	11:aA:368:ILE:HD13	1.68	0.40
11:aA:371:VAL:HG21	11:aA:507:PHE:CD2	2.56	0.40
11:aA:427:GLU:HG3	11:aA:430:ARG:HD2	2.03	0.40
11:aA:486:ILE:HA	11:aA:486:ILE:HD13	1.79	0.40
11:aA:643:LEU:HD11	11:aA:766:ASN:CA	2.49	0.40
4:M1:28:HIS:CE1	4:M1:37:GLU:OE1	2.74	0.40
4:M1:164:ARG:NH2	4:M1:168:LEU:HD21	2.36	0.40
2:U1:90:LEU:O	2:U1:94:THR:HG23	2.21	0.40
2:A2:90:LEU:O	2:A2:94:THR:HG23	2.21	0.40
3:F2:126:SER:HB2	12:F2:201:CYC:HMC1	2.03	0.40
1:A:89:LEU:HB2	1:A:133:MET:HE1	2.03	0.40
12:A:201:CYC:HC	12:A:201:CYC:CMD	2.14	0.40
1:Z:27:LEU:CD1	8:e5:37:LEU:HD21	2.51	0.40
1:Z:51:ILE:HG22	1:Z:133:MET:CE	2.51	0.40
2:AA:60:TYR:CD2	2:AA:67:THR:CG2	3.04	0.40
3:FA:111:ASN:OD1	4:MA:65:ARG:NH1	2.54	0.40
3:JA:88:ILE:HD13	11:aA:512:TYR:CD1	2.49	0.40
3:LA:151:GLY:HA3	12:LA:201:CYC:CMD	2.51	0.40
4:MA:1:MET:HE1	4:MA:45:VAL:HG13	1.92	0.40
4:MA:33:LEU:O	4:MA:33:LEU:CD1	2.70	0.40
2:SA:42:ARG:HD2	2:X4:69:PRO:HB2	2.02	0.40
3:TA:24:LEU:CB	2:X4:68:GLN:HG3	2.43	0.40
2:A1:25:GLN:HG3	2:K1:33:ARG:HG2	1.99	0.40
2:K3:33:ARG:HG2	2:A3:25:GLN:HG3	1.99	0.40
12:H2:202:CYC:HMD3	12:H2:202:CYC:NC	2.34	0.40
2:A3:28:ASN:HB2	12:B3:201:CYC:OB	2.22	0.40
3:B3:151:GLY:HA3	12:B3:201:CYC:CMD	2.51	0.40
2:E3:90:LEU:O	2:E3:94:THR:HG23	2.21	0.40
3:F3:151:GLY:HA3	12:F3:202:CYC:CMD	2.51	0.40
3:B4:113:LEU:CB	4:M4:60:LYS:HE2	2.51	0.40
3:D4:3:ASP:H	3:D4:6:THR:HB	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N3:39:PRO:HA	3:T3:116:THR:OG1	2.20	0.40
2:U3:99:ALA:HB2	3:V3:9:ILE:HD13	2.00	0.40
3:S4:151:GLY:HA3	12:S4:201:CYC:CMD	2.51	0.40
3:F4:113:LEU:CA	4:M4:5:THR:CB	2.97	0.40
2:G4:53:LYS:CE	11:aA:71:ILE:CG2	2.99	0.40
4:M4:7:SER:C	4:M4:14:LEU:HD13	2.08	0.40
4:M4:33:LEU:O	4:M4:33:LEU:CD1	2.70	0.40
3:O4:151:GLY:HA3	12:O4:202:CYC:CMD	2.51	0.40
2:P4:90:LEU:O	2:P4:94:THR:HG23	2.21	0.40
8:K5:20:PRO:CG	8:U5:151:PHE:C	2.92	0.40
1:N5:89:LEU:HB2	1:N5:133:MET:HE1	2.03	0.40
3:Y4:113:LEU:CD1	3:Y4:117:TYR:HB2	2.51	0.40
5:Z4:41:GLN:CB	12:Z4:301:CYC:NB	2.81	0.40
8:A5:118:SER:CB	1:F5:82:ILE:HD13	2.48	0.40
1:D5:19:LEU:HD22	1:D5:23:ALA:HB1	2.03	0.40
1:D5:76:ARG:HH12	9:z5:67:VAL:CB	2.34	0.40
8:E5:116:TYR:HD1	8:E5:116:TYR:HA	1.59	0.40
12:F5:201:CYC:O2A	10:k5:591:ILE:CG1	2.53	0.40
8:G5:4:LEU:CD2	8:G5:26:ILE:HD13	2.47	0.40
1:H5:65:LEU:HB3	1:H5:72:MET:HE3	2.03	0.40
1:d5:75:THR:HB	8:e5:111:GLY:C	2.46	0.40
12:d5:201:CYC:OB	10:j5:379:PHE:HE1	2.04	0.40
8:S5:4:LEU:CD2	8:S5:26:ILE:HD13	2.47	0.40
1:T5:65:LEU:HB3	1:T5:72:MET:HE3	2.03	0.40
1:V5:89:LEU:HB2	1:V5:133:MET:HE1	2.03	0.40
1:Z5:75:THR:HB	8:a5:111:GLY:C	2.46	0.40
8:a5:9:VAL:O	8:a5:9:VAL:HG13	2.20	0.40
10:j5:190:LEU:HD13	12:j5:1201:CYC:NC	2.36	0.40
10:j5:406:ILE:O	10:j5:406:ILE:HG22	2.20	0.40
10:j5:462:TYR:HD1	10:j5:462:TYR:HA	1.63	0.40
10:j5:867:VAL:O	10:j5:867:VAL:HG13	2.21	0.40
10:j5:1047:LYS:O	10:j5:1051:GLU:HB2	2.12	0.40
10:k5:762:GLU:OE2	10:k5:762:GLU:CA	2.69	0.40
10:k5:827:LYS:O	10:k5:827:LYS:CG	2.68	0.40
10:k5:1140:TRP:CD1	10:k5:1140:TRP:H	2.39	0.40
2:A6:60:TYR:CD2	2:A6:67:THR:CG2	3.04	0.40
2:A6:90:LEU:O	2:A6:94:THR:HG23	2.21	0.40
3:B6:151:GLY:HA3	12:B6:201:CYC:CMD	2.51	0.40
1:D7:65:LEU:HB3	1:D7:72:MET:HE3	2.03	0.40
1:F7:51:ILE:HG22	1:F7:133:MET:CE	2.51	0.40
8:G7:52:LYS:HG3	11:a9:586:LEU:HD21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H7:65:LEU:HB3	1:H7:72:MET:HE3	2.03	0.40
8:I7:18:LEU:CD1	1:J7:94:TYR:CE1	3.04	0.40
1:N7:51:ILE:HG22	1:N7:133:MET:CE	2.51	0.40
8:g7:11:ALA:C	8:g7:13:ALA:N	2.75	0.40
1:h7:24:LEU:CD2	1:h7:24:LEU:O	2.70	0.40
8:i7:42:THR:HB	8:i7:141:LEU:CD2	2.51	0.40
8:Y7:111:GLY:HA3	1:d7:75:THR:O	2.22	0.40
1:Z7:67:ARG:NH1	11:a9:307:ARG:HD3	2.37	0.40
8:c7:8:ILE:O	8:c7:11:ALA:N	2.50	0.40
8:c7:11:ALA:O	1:d7:94:TYR:OH	2.32	0.40
12:B8:202:CYC:OB	4:M8:58:TYR:CD1	2.73	0.40
8:q7:105:GLU:HG2	8:q7:110:ILE:HG23	2.02	0.40
1:v7:62:TYR:CE1	11:aA:602:PRO:CG	2.87	0.40
1:v7:65:LEU:HB3	1:v7:72:MET:HE3	2.03	0.40
9:z7:16:ARG:NH2	9:z7:18:ARG:HG3	2.36	0.40
9:w7:5:PHE:CE2	9:w7:37:TRP:HD1	2.38	0.40
12:T8:201:CYC:CMA	12:T8:201:CYC:NB	2.81	0.40
4:M8:236:ASN:HB2	3:Y8:116:THR:HG21	2.03	0.40
12:M8:302:CYC:C1C	3:S8:78:ARG:HG2	2.47	0.40
2:N8:10:ALA:O	5:Z8:62:ARG:NH2	2.54	0.40
2:N8:60:TYR:CD2	2:N8:67:THR:CG2	3.04	0.40
2:P8:90:LEU:O	2:P8:94:THR:HG23	2.21	0.40
3:Q8:81:ALA:HB2	5:Z8:36:THR:OG1	2.21	0.40
3:Q8:110:LEU:HD11	3:Q8:166:LYS:HB3	2.02	0.40
2:R8:90:LEU:O	2:R8:94:THR:HG23	2.22	0.40
2:O9:25:GLN:HG3	2:Y9:33:ARG:HG2	1.99	0.40
2:A9:60:TYR:CD2	2:A9:67:THR:CG2	3.04	0.40
3:H9:72:ASN:HB3	12:H9:202:CYC:OC	2.21	0.40
11:a9:51:SER:C	11:a9:53:VAL:N	2.74	0.40
11:a9:283:GLN:CG	11:a9:284:PRO:HD3	2.48	0.40
11:a9:346:TYR:O	11:a9:346:TYR:HD1	2.04	0.40
11:a9:379:LEU:HD12	11:a9:379:LEU:HA	1.43	0.40
11:a9:415:GLU:OE1	11:a9:415:GLU:N	2.55	0.40
11:a9:425:VAL:HG21	11:a9:502:ASN:C	2.46	0.40
11:a9:607:MET:HE3	11:a9:609:LEU:HD12	2.03	0.40
11:aA:371:VAL:HG21	11:aA:507:PHE:HD2	1.86	0.40
11:aA:373:PRO:O	11:aA:373:PRO:CG	2.69	0.40
11:aA:403:THR:CG2	11:aA:536:THR:HG21	2.31	0.40
2:I1:90:LEU:O	2:I1:94:THR:HG23	2.21	0.40
4:M1:52:LEU:O	4:M1:52:LEU:CD2	2.69	0.40
5:N1:31:TRP:CZ3	12:T1:301:CYC:HAB1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:73:TYR:CD1	10:j5:162:TRP:CH2	3.04	0.40
2:GA:90:LEU:O	2:GA:94:THR:HG23	2.22	0.40
3:HA:84:ARG:HD2	11:aA:478:HIS:HB2	0.90	0.40
3:HA:113:LEU:HD13	12:HA:202:CYC:CMB	2.47	0.40
4:MA:118:TYR:CD1	3:ZA:84:ARG:NH2	2.89	0.40
4:MA:210:ILE:O	4:MA:210:ILE:CG2	2.69	0.40
5:NA:26:LEU:HD23	5:NA:27:ALA:HB3	2.03	0.40
12:RA:202:CYC:HMD3	12:RA:202:CYC:NC	2.35	0.40
3:J2:151:GLY:HA3	12:J2:201:CYC:CMD	2.51	0.40
3:L2:74:TYR:N	3:L2:75:PRO:CD	2.85	0.40
6:M2:97:GLU:OE2	2:C2:1:MET:HA	2.21	0.40
7:N2:29:LEU:HD23	2:A2:112:GLY:HA2	2.03	0.40
4:M3:102:VAL:O	4:M3:102:VAL:CG1	2.69	0.40
5:N3:31:TRP:CZ3	12:T3:301:CYC:HAB1	2.56	0.40
5:N3:54:LEU:O	5:N3:54:LEU:HG	2.21	0.40
2:O3:25:GLN:HG3	2:Y3:33:ARG:HG2	1.99	0.40
2:O3:60:TYR:CD2	2:O3:67:THR:CG2	3.04	0.40
3:B1:115:GLU:OE2	4:M1:78:GLY:HA2	2.21	0.40
12:F4:202:CYC:HMA1	11:aA:144:LEU:HD23	2.03	0.40
4:M4:37:GLU:OE1	11:aA:229:ASN:ND2	2.54	0.40
4:M4:250:THR:O	4:M4:250:THR:HG22	2.19	0.40
2:N4:28:ASN:HB2	12:O4:202:CYC:OB	2.21	0.40
5:Z4:54:LEU:O	5:Z4:54:LEU:HG	2.21	0.40
8:E5:63:PRO:C	8:E5:65:VAL:N	2.80	0.40
8:E5:106:GLU:OE1	9:z5:66:GLY:N	2.52	0.40
1:H5:2:GLN:OE1	10:j5:551:MET:SD	2.79	0.40
1:J5:65:LEU:HB3	1:J5:72:MET:HE3	2.03	0.40
1:f5:34:GLY:C	10:j5:47:PHE:HD2	2.28	0.40
1:P5:65:LEU:HB3	1:P5:72:MET:HE3	2.04	0.40
8:Q5:161:GLN:H	8:Q5:161:GLN:HG2	1.67	0.40
1:R5:106:GLU:HG3	10:k5:505:VAL:N	2.35	0.40
8:S5:22:GLU:O	8:S5:26:ILE:HG13	2.20	0.40
8:U5:19:SER:O	8:U5:20:PRO:C	2.64	0.40
1:b5:114:GLU:CA	10:k5:491:THR:CG2	2.99	0.40
8:A7:67:SER:O	8:A7:68:PRO:C	2.63	0.40
9:i5:58:THR:CG2	9:i5:58:THR:O	2.69	0.40
10:j5:278:TYR:HE2	10:j5:287:ASN:CG	2.30	0.40
10:j5:481:ILE:H	10:j5:481:ILE:HG12	1.67	0.40
10:j5:767:LEU:HA	10:j5:767:LEU:HD23	1.91	0.40
10:j5:920:ARG:HE	10:j5:920:ARG:HB3	1.59	0.40
10:j5:995:VAL:O	10:j5:995:VAL:HG12	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k5:665:LEU:HD12	10:k5:665:LEU:HA	1.83	0.40
10:k5:780:ILE:O	10:k5:780:ILE:HG13	2.11	0.40
10:k5:783:TYR:CE1	1:F7:83:ARG:HD3	2.56	0.40
10:k5:853:LEU:O	10:k5:853:LEU:CD1	2.69	0.40
10:k5:867:VAL:O	10:k5:867:VAL:CG1	2.67	0.40
10:k5:1150:TYR:CZ	11:a9:38:VAL:HG13	2.57	0.40
3:B6:77:ARG:O	3:B6:77:ARG:CD	2.69	0.40
2:G6:90:LEU:O	2:G6:94:THR:HG23	2.21	0.40
3:D1:68:ARG:NH2	3:X1:68:ARG:HH12	2.19	0.40
1:H7:51:ILE:HG22	1:H7:133:MET:CE	2.51	0.40
8:g7:2:SER:HA	8:g7:100:ASP:HB3	2.01	0.40
8:k7:22:GLU:O	8:k7:26:ILE:HG13	2.20	0.40
8:U7:18:LEU:CD1	1:V7:94:TYR:HE1	2.34	0.40
8:W7:22:GLU:O	8:W7:26:ILE:HG13	2.20	0.40
8:Y7:112:VAL:HA	1:d7:75:THR:HB	2.03	0.40
1:b7:74:THR:HA	8:c7:107:ILE:O	2.21	0.40
12:b7:201:CYC:C4B	9:x7:23:LEU:HB2	2.51	0.40
2:A8:28:ASN:HB2	12:B8:201:CYC:OB	2.21	0.40
2:A8:94:THR:O	2:A8:98:VAL:HG23	2.22	0.40
3:B8:109:CYS:C	4:M8:60:LYS:HZ3	2.29	0.40
12:B8:202:CYC:O2D	4:M8:50:ASP:CA	2.68	0.40
8:o7:43:LEU:HA	8:o7:43:LEU:HD12	1.84	0.40
1:p7:8:VAL:HB	1:p7:27:LEU:HD21	2.03	0.40
9:z7:18:ARG:HE	9:z7:18:ARG:HB2	1.77	0.40
2:T8:90:LEU:O	2:T8:94:THR:HG23	2.21	0.40
2:X8:69:PRO:HB3	2:S9:39:GLU:CB	2.52	0.40
3:F8:151:GLY:HA3	12:F8:201:CYC:CMD	2.51	0.40
3:H8:14:LEU:HD22	11:a9:85:ALA:CA	2.27	0.40
4:M8:23:PRO:CD	4:M8:23:PRO:O	2.70	0.40
4:M8:150:GLU:O	4:M8:154:GLU:HB3	2.21	0.40
12:Q8:201:CYC:HB	12:Q8:201:CYC:HMA3	1.83	0.40
3:F1:151:GLY:HA3	12:F1:202:CYC:CMD	2.51	0.40
12:F1:201:CYC:CBA	4:M1:36:TYR:CD2	3.04	0.40
3:L9:97:LEU:HD11	3:L9:156:LEU:HD22	2.03	0.40
4:M9:28:HIS:HD2	4:M9:35:THR:HG23	1.87	0.40
4:M9:36:TYR:CE2	12:B9:201:CYC:HBA2	2.57	0.40
5:N9:28:HIS:CD2	5:N9:28:HIS:H	2.38	0.40
5:N9:54:LEU:CD2	3:T9:84:ARG:NH1	2.67	0.40
2:O9:59:VAL:O	2:O9:66:LEU:CD1	2.62	0.40
2:Q9:94:THR:O	2:Q9:98:VAL:HG23	2.21	0.40
5:Z8:19:THR:HA	5:Z8:44:TYR:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:F9:302:CYC:HMD3	12:F9:302:CYC:NC	2.35	0.40
12:F9:303:CYC:HB	12:F9:303:CYC:HMA3	1.84	0.40
3:H9:78:ARG:CD	12:H9:202:CYC:HAD1	2.51	0.40
11:a9:355:GLU:OE1	11:a9:355:GLU:CA	2.69	0.40
11:a9:430:ARG:HH22	11:a9:491:ASP:HB2	1.86	0.40
11:aA:370:ALA:CB	11:aA:531:ASP:OD2	2.69	0.40
4:M1:171:LYS:HE2	4:M1:221:TYR:OH	2.21	0.40
2:W1:94:THR:O	2:W1:98:VAL:HG23	2.22	0.40
1:A:65:LEU:HB3	1:A:72:MET:HE3	2.03	0.40
2:AA:90:LEU:O	2:AA:94:THR:HG23	2.21	0.40
2:IA:90:LEU:O	2:IA:94:THR:HG23	2.21	0.40
4:MA:29:PRO:CG	11:aA:378:GLU:CD	2.91	0.40
4:MA:140:ARG:NH1	4:MA:204:ILE:O	2.52	0.40
5:NA:56:GLU:OE2	5:NA:59:ARG:NH2	2.51	0.40
2:OA:63:PHE:O	2:OA:66:LEU:CB	2.68	0.40
2:A1:60:TYR:CD2	2:A1:67:THR:CG2	3.04	0.40
2:I3:94:THR:O	2:I3:98:VAL:HG23	2.22	0.40
2:A3:60:TYR:CD2	2:A3:67:THR:CG2	3.04	0.40
2:A3:63:PHE:O	2:A3:66:LEU:CB	2.68	0.40
3:B3:115:GLU:OE2	4:M3:78:GLY:HA2	2.21	0.40
2:C4:90:LEU:O	2:C4:94:THR:HG23	2.21	0.40
4:M3:56:MET:HB3	4:M3:56:MET:HE2	1.75	0.40
2:T4:94:THR:O	2:T4:98:VAL:HG23	2.22	0.40
3:H4:3:ASP:H	3:H4:6:THR:HB	1.85	0.40
3:H4:14:LEU:HD13	11:aA:85:ALA:CB	2.47	0.40
4:M4:150:GLU:O	4:M4:154:GLU:HB3	2.21	0.40
3:O4:107:ASP:HB3	5:Z4:66:ARG:CA	2.46	0.40
2:P4:19:LEU:HD11	3:Q4:95:TYR:HD1	1.77	0.40
3:Q4:93:VAL:HG11	3:Q4:164:PHE:CG	2.57	0.40
1:L5:14:VAL:HG12	9:i5:64:ASN:HD21	1.85	0.40
5:Z4:28:HIS:HB3	5:Z4:35:ASP:C	2.46	0.40
8:E5:115:MET:O	8:E5:119:LEU:HG	2.21	0.40
1:F5:65:LEU:HB3	1:F5:72:MET:HE3	2.03	0.40
2:C1:94:THR:O	2:C1:98:VAL:HG23	2.22	0.40
8:c5:114:GLU:OE2	10:j5:312:TYR:C	2.64	0.40
8:e5:34:GLU:O	8:e5:38:ARG:HG3	2.20	0.40
8:e5:105:GLU:HG2	8:e5:110:ILE:HG23	2.02	0.40
1:R5:65:LEU:HB3	1:R5:72:MET:HE3	2.03	0.40
1:R5:106:GLU:CG	10:k5:505:VAL:N	2.83	0.40
12:R5:201:CYC:HBB1	10:k5:520:ARG:CZ	2.51	0.40
8:S5:115:MET:SD	1:X5:75:THR:HG22	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:T5:201:CYC:HC	12:T5:201:CYC:CMD	2.14	0.40
1:b5:89:LEU:HB2	1:b5:133:MET:HE1	2.03	0.40
6:M6:53:LEU:CG	8:c7:80:LEU:HD21	2.51	0.40
10:j5:26:ASN:ND2	10:j5:267:ASP:CG	2.79	0.40
10:j5:292:GLU:OE1	10:j5:292:GLU:HA	2.21	0.40
10:j5:611:GLU:OE1	10:j5:611:GLU:CA	2.67	0.40
10:j5:1077:ILE:HG22	12:r7:201:CYC:CBA	2.52	0.40
10:j5:1150:TYR:HD2	1:v7:70:GLY:HA2	1.87	0.40
10:k5:190:LEU:CD2	10:k5:194:CYS:SG	3.08	0.40
10:k5:232:ARG:NH1	10:k5:232:ARG:CB	2.82	0.40
10:k5:806:VAL:O	10:k5:806:VAL:HG12	2.20	0.40
10:k5:1069:ARG:HD3	10:k5:1115:ARG:NH1	2.34	0.40
10:k5:1070:ALA:CB	10:k5:1071:PRO:CD	2.97	0.40
2:E6:90:LEU:O	2:E6:94:THR:HG23	2.22	0.40
8:S7:49:ARG:HB2	11:aA:550:PHE:CZ	2.56	0.40
8:C7:18:LEU:CD1	1:D7:94:TYR:CE1	3.04	0.40
8:E7:22:GLU:O	8:E7:26:ILE:HG13	2.20	0.40
1:H7:76:ARG:HB2	8:I7:110:ILE:HG13	2.04	0.40
8:I7:27:LYS:C	8:I7:30:VAL:HG22	2.47	0.40
8:M7:22:GLU:O	8:M7:26:ILE:HG13	2.20	0.40
1:N7:65:LEU:HB3	1:N7:72:MET:HE3	2.03	0.40
8:i7:50:ILE:CG2	8:i7:133:MET:HG2	2.38	0.40
1:T7:76:ARG:HB2	8:U7:110:ILE:HG13	2.04	0.40
12:V7:201:CYC:HMD1	12:V7:201:CYC:NC	2.09	0.40
8:c7:137:ALA:O	8:c7:139:SER:N	2.54	0.40
1:d7:107:ARG:HA	9:x7:45:GLN:HB3	2.04	0.40
1:f7:67:ARG:NH1	11:aA:307:ARG:HD3	2.36	0.40
2:E1:94:THR:O	2:E1:98:VAL:HG23	2.22	0.40
8:o7:17:TYR:CD2	1:p7:93:THR:HB	2.53	0.40
8:s7:105:GLU:HG2	8:s7:110:ILE:HG23	2.02	0.40
8:u7:90:ARG:CG	1:v7:18:TYR:CD1	3.04	0.40
9:x7:14:LEU:O	9:x7:14:LEU:CD1	2.70	0.40
2:X8:94:THR:O	2:X8:98:VAL:HG23	2.22	0.40
3:H8:1:MET:N	11:a9:96:THR:HG21	2.33	0.40
4:M8:33:LEU:O	4:M8:33:LEU:CD1	2.70	0.40
4:M8:132:LEU:HD13	4:M8:142:PHE:CB	2.51	0.40
4:M8:140:ARG:NH2	4:M8:210:ILE:CG1	2.77	0.40
3:Q8:122:THR:HG21	12:Z8:301:CYC:CMC	2.50	0.40
3:S8:151:GLY:HA3	12:S8:201:CYC:CMD	2.51	0.40
4:M9:18:THR:C	4:M9:19:MET:HG3	2.43	0.40
4:M9:53:LEU:HD12	12:F9:301:CYC:C4B	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M9:57:THR:O	4:M9:57:THR:HG22	2.19	0.40
2:O9:94:THR:O	2:O9:98:VAL:HG23	2.22	0.40
2:G9:38:MET:HE2	2:G9:38:MET:HB3	1.81	0.40
2:K9:90:LEU:O	2:K9:94:THR:HG23	2.21	0.40
11:a9:684:ASN:CG	11:a9:686:SER:HG	2.30	0.40
11:aA:68:THR:O	11:aA:69:ARG:CG	2.70	0.40
4:M1:28:HIS:HD2	4:M1:35:THR:HG23	1.87	0.40
4:M1:53:LEU:O	4:M1:53:LEU:CD1	2.69	0.40
4:M1:134:ASN:CG	5:N1:1:MET:N	2.79	0.40
5:N1:28:HIS:CD2	5:N1:28:HIS:H	2.38	0.40
5:N1:54:LEU:O	5:N1:54:LEU:HG	2.21	0.40
2:E2:90:LEU:O	2:E2:94:THR:HG23	2.22	0.40
1:A:13:ASP:OD2	8:a5:107:ILE:CD1	2.69	0.40
3:JA:88:ILE:HG21	11:aA:512:TYR:CE2	2.56	0.40
4:MA:252:LEU:HD13	3:ZA:77:ARG:NH1	2.35	0.40
5:NA:40:SER:O	5:NA:40:SER:OG	2.30	0.40
2:QA:29:GLY:N	2:UA:29:GLY:HA3	2.37	0.40
12:QA:201:CYC:CMA	3:TA:79:MET:HE3	2.49	0.40
2:UA:94:THR:O	2:UA:98:VAL:HG23	2.22	0.40
2:YA:94:THR:O	2:YA:98:VAL:HG23	2.22	0.40
2:O1:60:TYR:CD2	2:O1:67:THR:CG2	3.04	0.40
3:J3:3:ASP:H	3:J3:6:THR:HB	1.85	0.40
2:K3:94:THR:O	2:K3:98:VAL:HG23	2.22	0.40
6:M2:36:ILE:HG23	6:M2:43:TRP:HB3	2.03	0.40
2:A4:25:GLN:HG3	2:K4:33:ARG:HG2	1.99	0.40
2:A4:60:TYR:CZ	2:A4:79:GLN:HG2	2.56	0.40
2:A4:90:LEU:O	2:A4:94:THR:HG23	2.22	0.40
3:B4:82:CYS:CB	12:B4:202:CYC:H2C	2.50	0.40
12:B4:202:CYC:CMA	12:B4:202:CYC:HB	2.25	0.40
5:N3:13:SER:HB3	5:N3:14:LYS:H	1.55	0.40
12:T3:301:CYC:HB	12:T3:301:CYC:CMA	2.25	0.40
2:K4:90:LEU:O	2:K4:94:THR:HG23	2.21	0.40
4:M4:70:SER:O	4:M4:70:SER:OG	2.36	0.40
4:M4:101:ASP:OD1	2:P4:13:ASP:OD1	2.39	0.40
3:Y4:101:ASP:HB3	3:Y4:103:SER:OG	2.21	0.40
3:Y4:102:ALA:O	3:Y4:106:GLU:N	2.55	0.40
8:A5:64:ASP:O	8:A5:65:VAL:C	2.61	0.40
1:B5:107:ARG:HD2	9:z5:21:ARG:HD3	2.03	0.40
1:D5:9:ILE:HD13	1:D5:9:ILE:HG21	1.66	0.40
1:D5:51:ILE:HG22	1:D5:133:MET:CE	2.51	0.40
1:F5:51:ILE:HG22	1:F5:133:MET:CE	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G5:119:LEU:CD1	12:G5:201:CYC:HAA2	2.52	0.40
8:I5:107:ILE:HG22	12:I5:201:CYC:HBB1	2.04	0.40
1:J5:76:ARG:HH12	9:i5:67:VAL:CG1	2.34	0.40
8:Q5:102:THR:N	8:Q5:103:PRO:HD2	2.37	0.40
1:T5:89:LEU:HB2	1:T5:133:MET:HE1	2.03	0.40
12:V5:201:CYC:HMD1	12:V5:201:CYC:NC	2.10	0.40
1:b5:65:LEU:HB3	1:b5:72:MET:HE3	2.03	0.40
2:K6:94:THR:O	2:K6:98:VAL:HG23	2.22	0.40
7:N6:29:LEU:HD23	2:A6:112:GLY:HA2	2.03	0.40
10:j5:264:LEU:CD2	10:j5:264:LEU:O	2.69	0.40
10:j5:301:TYR:CE1	10:j5:337:LEU:HD21	2.56	0.40
10:j5:349:GLN:CB	10:j5:350:PRO:HD3	2.52	0.40
10:j5:512:ASN:HD22	10:j5:682:GLU:HG2	1.86	0.40
10:j5:699:SER:O	10:j5:699:SER:OG	2.38	0.40
10:j5:1067:LEU:HD22	10:j5:1067:LEU:HA	1.70	0.40
10:j5:1144:SER:OG	1:v7:74:THR:HG21	2.21	0.40
10:k5:221:LYS:NZ	10:k5:221:LYS:CA	2.85	0.40
10:k5:357:LEU:HG	10:k5:382:ILE:HD11	2.03	0.40
10:k5:953:LEU:HD23	10:k5:953:LEU:HA	1.60	0.40
10:k5:1008:PHE:CE1	1:p7:87:TYR:HH	1.78	0.40
10:k5:1118:THR:OG1	12:k5:1204:CYC:CGA	2.67	0.40
10:k5:1134:GLU:O	10:k5:1134:GLU:CG	2.69	0.40
1:P7:65:LEU:HB3	1:P7:72:MET:HE3	2.03	0.40
1:R7:87:TYR:CE2	9:z7:38:PHE:HE1	2.38	0.40
8:i7:47:ARG:NE	1:j7:18:TYR:CG	2.86	0.40
8:i7:152:TYR:CE2	8:s7:20:PRO:HB3	2.57	0.40
1:j7:51:ILE:HG22	1:j7:133:MET:CE	2.51	0.40
1:j7:75:THR:O	8:e7:111:GLY:HA3	2.22	0.40
1:j7:89:LEU:HB2	1:j7:133:MET:HE1	2.03	0.40
1:j7:119:LEU:HD21	9:y7:5:PHE:CZ	2.57	0.40
1:V7:51:ILE:HG22	1:V7:133:MET:CE	2.51	0.40
1:X7:51:ILE:HG22	1:X7:133:MET:CE	2.51	0.40
12:b7:201:CYC:OB	9:x7:23:LEU:N	2.55	0.40
8:c7:92:VAL:HG22	8:c7:156:LEU:HG	2.03	0.40
1:f7:89:LEU:HB2	1:f7:133:MET:HE1	2.02	0.40
2:C8:38:MET:HE2	2:C8:38:MET:HB3	1.81	0.40
8:m7:27:LYS:C	8:m7:30:VAL:HG22	2.47	0.40
1:n7:51:ILE:HG22	1:n7:133:MET:CE	2.51	0.40
8:o7:98:ALA:CB	1:p7:9:ILE:HD11	2.38	0.40
8:s7:18:LEU:CD1	1:t7:94:TYR:CE1	3.04	0.40
8:u7:39:ILE:HD11	8:u7:145:ASP:CG	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:u7:71:ASN:HB3	12:u7:201:CYC:OC	2.22	0.40
9:x7:5:PHE:HD1	9:x7:55:LYS:O	2.05	0.40
2:X8:69:PRO:CG	2:S9:39:GLU:HA	2.50	0.40
4:M8:87:ILE:HD12	3:Y8:77:ARG:CD	2.51	0.40
4:M8:140:ARG:O	4:M8:143:VAL:CB	2.65	0.40
4:M8:141:GLU:HA	4:M8:144:ARG:HB2	2.03	0.40
2:N8:90:LEU:O	2:N8:94:THR:HG23	2.21	0.40
12:N8:201:CYC:NB	3:Q8:76:ASN:OD1	2.54	0.40
4:M9:204:ILE:O	4:M9:204:ILE:CG2	2.69	0.40
5:N9:26:LEU:CD2	5:N9:26:LEU:O	2.70	0.40
5:N9:34:LEU:HD22	5:N9:34:LEU:HA	1.71	0.40
5:N9:61:LYS:HD2	12:T9:301:CYC:HBB3	1.98	0.40
5:N9:72:GLU:CG	3:T9:119:ALA:O	2.58	0.40
3:Y8:89:ILE:CA	3:Y8:92:TYR:CD2	2.68	0.40
2:K9:94:THR:O	2:K9:98:VAL:HG23	2.22	0.40
2:W9:94:THR:O	2:W9:98:VAL:HG23	2.22	0.40
2:Y9:94:THR:O	2:Y9:98:VAL:HG23	2.22	0.40
2:G1:94:THR:O	2:G1:98:VAL:HG23	2.22	0.40
2:G1:107:ASP:O	3:L1:77:ARG:NE	2.55	0.40
11:a9:31:SER:OG	11:a9:34:ILE:CG2	2.68	0.40
11:a9:399:ILE:O	11:a9:399:ILE:CG2	2.69	0.40
11:a9:556:LEU:HD22	11:a9:556:LEU:HA	1.92	0.40
11:aA:95:ILE:HD13	11:aA:237:PHE:CD2	2.57	0.40
11:aA:352:PRO:HB2	11:aA:354:VAL:N	2.36	0.40
11:aA:430:ARG:HH22	11:aA:491:ASP:HB2	1.86	0.40
2:K1:94:THR:O	2:K1:98:VAL:HG23	2.22	0.40
4:M1:33:LEU:O	4:M1:33:LEU:CD1	2.70	0.40
4:M1:274:VAL:HG22	3:Z1:77:ARG:HB2	2.04	0.40
5:N1:26:LEU:CD2	5:N1:26:LEU:O	2.70	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	B5	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	B7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	D5	158/161 (98%)	145 (92%)	9 (6%)	4 (2%)	4	16
1	D7	158/161 (98%)	149 (94%)	6 (4%)	3 (2%)	6	22
1	F5	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	F7	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
1	H5	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	H7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	J5	158/161 (98%)	145 (92%)	9 (6%)	4 (2%)	4	16
1	J7	158/161 (98%)	149 (94%)	6 (4%)	3 (2%)	6	22
1	L5	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	L7	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
1	N5	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	N7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	P5	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	P7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	R5	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
1	R7	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
1	T5	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	T7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	V5	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	V7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	X5	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
1	X7	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
1	Z	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	Z5	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	Z7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	b5	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
1	b7	158/161 (98%)	150 (95%)	7 (4%)	1 (1%)	21	51
1	d5	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	d7	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	f5	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
1	f7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	h7	158/161 (98%)	150 (95%)	7 (4%)	1 (1%)	21	51
1	j7	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
1	l7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	n7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	p7	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
1	r7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	t7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9	31
1	v7	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
2	A1	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
2	A2	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
2	A3	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
2	A4	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
2	A6	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
2	A8	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
2	A9	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
2	AA	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
2	C1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	C2	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	C3	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	C4	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	C6	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	C8	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	C9	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	CA	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	E1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	E2	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	E3	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	E4	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	E6	160/162 (99%)	158 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	E8	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	E9	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	EA	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	G1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	G2	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	G3	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	G4	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	G6	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	G8	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	G9	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	GA	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	I1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	I2	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	I3	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	I4	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	I6	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	I8	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	I9	160/162 (99%)	153 (96%)	6 (4%)	1 (1%)	21	51
2	IA	160/162 (99%)	153 (96%)	6 (4%)	1 (1%)	21	51
2	K1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	K2	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	K3	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	K4	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	K6	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	K8	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	K9	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	KA	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	N4	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
2	N8	160/162 (99%)	154 (96%)	5 (3%)	1 (1%)	21	51
2	O1	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
2	O3	160/162 (99%)	155 (97%)	5 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	O9	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
2	OA	160/162 (99%)	155 (97%)	5 (3%)	0	100	100
2	P4	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	P8	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	Q1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	Q3	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	Q9	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	QA	160/162 (99%)	156 (98%)	4 (2%)	0	100	100
2	R4	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	R8	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	S1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	S3	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	S9	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	SA	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	T4	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	T8	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	U1	160/162 (99%)	157 (98%)	3 (2%)	0	100	100
2	U3	160/162 (99%)	157 (98%)	2 (1%)	1 (1%)	21	51
2	U9	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	UA	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	V4	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	V8	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	W1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	W3	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	W9	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	WA	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	X4	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	X8	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	Y1	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	Y3	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
2	Y9	160/162 (99%)	158 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	YA	160/162 (99%)	158 (99%)	2 (1%)	0	100	100
3	B1	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	B2	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	B3	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	B4	170/172 (99%)	159 (94%)	9 (5%)	2 (1%)	10	34
3	B6	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	B8	170/172 (99%)	160 (94%)	9 (5%)	1 (1%)	21	51
3	B9	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	BA	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	D1	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	D2	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	D3	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	D4	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	D6	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	D8	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	D9	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	DA	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	F1	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	F2	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	F3	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	F4	170/172 (99%)	158 (93%)	7 (4%)	5 (3%)	3	13
3	F6	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	F8	170/172 (99%)	159 (94%)	7 (4%)	4 (2%)	4	17
3	F9	170/172 (99%)	160 (94%)	8 (5%)	2 (1%)	10	34
3	FA	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	H1	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	H2	170/172 (99%)	161 (95%)	8 (5%)	1 (1%)	21	51
3	H3	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	H4	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	H6	170/172 (99%)	161 (95%)	8 (5%)	1 (1%)	21	51
3	H8	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	H9	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	HA	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	J1	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	J2	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	J3	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	J4	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	J6	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	J8	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	J9	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	10	34
3	JA	170/172 (99%)	163 (96%)	5 (3%)	2 (1%)	10	34
3	L1	170/172 (99%)	161 (95%)	7 (4%)	2 (1%)	10	34
3	L2	170/172 (99%)	163 (96%)	6 (4%)	1 (1%)	21	51
3	L3	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	L4	170/172 (99%)	158 (93%)	7 (4%)	5 (3%)	3	13
3	L6	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	L8	170/172 (99%)	159 (94%)	7 (4%)	4 (2%)	4	17
3	L9	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	LA	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	O4	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	O8	170/172 (99%)	162 (95%)	6 (4%)	2 (1%)	10	34
3	P1	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	P3	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	P9	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	PA	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	Q4	170/172 (99%)	156 (92%)	11 (6%)	3 (2%)	6	23
3	Q8	170/172 (99%)	156 (92%)	12 (7%)	2 (1%)	10	34
3	R1	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	R3	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	R9	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	RA	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	S4	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	S8	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	T1	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	T3	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	T9	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	TA	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	U4	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	U8	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	V1	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	V3	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	V9	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	VA	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	W4	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	W8	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	X1	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	X3	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	X9	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	XA	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	Y4	170/172 (99%)	153 (90%)	15 (9%)	2 (1%)	10	34
3	Y8	170/172 (99%)	155 (91%)	14 (8%)	1 (1%)	21	51
3	Z1	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	Z3	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	Z9	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
3	ZA	170/172 (99%)	162 (95%)	7 (4%)	1 (1%)	21	51
4	M1	272/274 (99%)	253 (93%)	10 (4%)	9 (3%)	3	11
4	M3	272/274 (99%)	253 (93%)	10 (4%)	9 (3%)	3	11
4	M4	272/274 (99%)	251 (92%)	10 (4%)	11 (4%)	2	8
4	M8	272/274 (99%)	245 (90%)	11 (4%)	16 (6%)	1	3
4	M9	272/274 (99%)	253 (93%)	10 (4%)	9 (3%)	3	11
4	MA	272/274 (99%)	253 (93%)	10 (4%)	9 (3%)	3	11
5	N1	72/275 (26%)	65 (90%)	5 (7%)	2 (3%)	4	14
5	N3	72/275 (26%)	65 (90%)	5 (7%)	2 (3%)	4	14

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	N9	72/275 (26%)	65 (90%)	5 (7%)	2 (3%)	4	14
5	NA	72/275 (26%)	65 (90%)	5 (7%)	2 (3%)	4	14
5	Z4	72/275 (26%)	59 (82%)	7 (10%)	6 (8%)	0	1
5	Z8	72/275 (26%)	65 (90%)	5 (7%)	2 (3%)	4	14
6	M2	277/729 (38%)	246 (89%)	30 (11%)	1 (0%)	30	60
6	M6	277/729 (38%)	246 (89%)	30 (11%)	1 (0%)	30	60
7	N2	68/70 (97%)	54 (79%)	13 (19%)	1 (2%)	8	28
7	N6	68/70 (97%)	54 (79%)	13 (19%)	1 (2%)	8	28
8	A5	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21	51
8	A7	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21	51
8	C5	158/161 (98%)	145 (92%)	9 (6%)	4 (2%)	4	16
8	C7	158/161 (98%)	154 (98%)	2 (1%)	2 (1%)	9	31
8	E5	158/161 (98%)	152 (96%)	3 (2%)	3 (2%)	6	22
8	E7	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
8	G5	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21	51
8	G7	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21	51
8	I5	158/161 (98%)	145 (92%)	9 (6%)	4 (2%)	4	16
8	I7	158/161 (98%)	154 (98%)	2 (1%)	2 (1%)	9	31
8	K5	158/161 (98%)	152 (96%)	3 (2%)	3 (2%)	6	22
8	K7	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
8	M5	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21	51
8	M7	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21	51
8	O5	158/161 (98%)	148 (94%)	6 (4%)	4 (2%)	4	16
8	O7	158/161 (98%)	151 (96%)	2 (1%)	5 (3%)	3	11
8	Q5	158/161 (98%)	150 (95%)	5 (3%)	3 (2%)	6	22
8	Q7	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9	31
8	S5	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21	51
8	S7	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21	51
8	U5	158/161 (98%)	151 (96%)	3 (2%)	4 (2%)	4	16
8	U7	158/161 (98%)	151 (96%)	3 (2%)	4 (2%)	4	16
8	W5	158/161 (98%)	150 (95%)	5 (3%)	3 (2%)	6	22

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
8	W7	158/161 (98%)	151 (96%)	5 (3%)	2 (1%)	9 31
8	Y5	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21 51
8	Y7	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21 51
8	a5	158/161 (98%)	149 (94%)	5 (3%)	4 (2%)	4 16
8	a7	158/161 (98%)	152 (96%)	4 (2%)	2 (1%)	9 31
8	c5	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21 51
8	c7	158/161 (98%)	149 (94%)	7 (4%)	2 (1%)	9 31
8	e5	158/161 (98%)	149 (94%)	5 (3%)	4 (2%)	4 16
8	e7	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21 51
8	g7	158/161 (98%)	152 (96%)	4 (2%)	2 (1%)	9 31
8	i7	158/161 (98%)	149 (94%)	7 (4%)	2 (1%)	9 31
8	k7	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21 51
8	m7	158/161 (98%)	150 (95%)	4 (2%)	4 (2%)	4 16
8	o7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9 31
8	q7	158/161 (98%)	154 (98%)	3 (2%)	1 (1%)	21 51
8	s7	158/161 (98%)	152 (96%)	3 (2%)	3 (2%)	6 22
8	u7	158/161 (98%)	150 (95%)	6 (4%)	2 (1%)	9 31
9	i5	66/68 (97%)	61 (92%)	3 (4%)	2 (3%)	3 12
9	w7	66/68 (97%)	55 (83%)	8 (12%)	3 (4%)	2 7
9	x7	66/68 (97%)	53 (80%)	11 (17%)	2 (3%)	3 12
9	y7	66/68 (97%)	53 (80%)	11 (17%)	2 (3%)	3 12
9	z5	66/68 (97%)	61 (92%)	3 (4%)	2 (3%)	3 12
9	z7	66/68 (97%)	55 (83%)	8 (12%)	3 (4%)	2 7
10	j5	1104/1155 (96%)	967 (88%)	88 (8%)	49 (4%)	2 7
10	k5	1104/1155 (96%)	966 (88%)	88 (8%)	50 (4%)	2 7
11	a9	796/824 (97%)	691 (87%)	70 (9%)	35 (4%)	2 7
11	aA	796/824 (97%)	688 (86%)	70 (9%)	38 (5%)	2 6
All	All	47626/50516 (94%)	45281 (95%)	1786 (4%)	559 (1%)	13 34

All (559) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	FA	145	PRO

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Mol	Chain	Res	Type
3	JA	21	GLU
4	MA	2	ASN
4	MA	78	GLY
4	MA	79	PRO
4	MA	99	VAL
4	MA	250	THR
4	M3	2	ASN
4	M3	78	GLY
4	M3	79	PRO
4	M3	99	VAL
4	M3	250	THR
3	F4	111	ASN
3	L4	66	LEU
3	L4	69	PRO
4	M4	2	ASN
4	M4	78	GLY
4	M4	79	PRO
4	M4	136	SER
4	M4	250	THR
8	K5	64	ASP
8	O5	25	ARG
8	O5	102	THR
3	Y4	109	CYS
5	Z4	28	HIS
8	C5	28	SER
8	C5	102	THR
1	D5	21	GLY
8	E5	64	ASP
8	I5	28	SER
8	I5	102	THR
1	J5	21	GLY
8	e5	102	THR
8	Q5	64	ASP
8	U5	102	THR
8	W5	64	ASP
8	a5	102	THR
10	j5	20	VAL
10	j5	50	GLY
10	j5	236	ALA
10	j5	267	ASP
10	j5	277	ILE
10	j5	286	VAL

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Mol	Chain	Res	Type
10	j5	387	VAL
10	j5	392	SER
10	j5	394	PRO
10	j5	543	ASN
10	j5	549	LYS
10	j5	559	THR
10	j5	736	GLU
10	j5	744	PRO
10	j5	880	THR
10	j5	973	THR
10	j5	984	ILE
10	j5	1011	ILE
10	j5	1016	LEU
10	j5	1052	PRO
10	j5	1055	SER
10	j5	1056	PRO
10	k5	20	VAL
10	k5	50	GLY
10	k5	236	ALA
10	k5	267	ASP
10	k5	277	ILE
10	k5	286	VAL
10	k5	387	VAL
10	k5	392	SER
10	k5	394	PRO
10	k5	543	ASN
10	k5	549	LYS
10	k5	736	GLU
10	k5	744	PRO
10	k5	880	THR
10	k5	973	THR
10	k5	984	ILE
10	k5	1011	ILE
10	k5	1016	LEU
10	k5	1052	PRO
10	k5	1055	SER
10	k5	1056	PRO
8	O7	20	PRO
8	O7	22	GLU
8	O7	102	THR
8	Q7	64	ASP
8	C7	102	THR

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Mol	Chain	Res	Type
1	D7	68	PRO
8	E7	64	ASP
8	I7	102	THR
1	J7	68	PRO
8	K7	64	ASP
8	g7	102	THR
8	i7	64	ASP
8	U7	102	THR
8	W7	64	ASP
8	a7	102	THR
8	c7	64	ASP
8	m7	102	THR
8	o7	64	ASP
8	s7	20	PRO
8	s7	102	THR
8	u7	64	ASP
9	z7	22	GLU
9	z7	37	TRP
9	w7	22	GLU
9	w7	37	TRP
9	x7	63	ALA
9	y7	63	ALA
3	F8	110	LEU
3	L8	69	PRO
4	M8	2	ASN
4	M8	78	GLY
4	M8	79	PRO
4	M8	97	ALA
4	M8	99	VAL
4	M8	136	SER
4	M8	211	GLN
4	M8	226	SER
4	M8	231	THR
4	M8	250	THR
2	N8	111	ALA
3	Q8	109	CYS
4	M9	2	ASN
4	M9	78	GLY
4	M9	79	PRO
4	M9	99	VAL
4	M9	250	THR
3	F9	145	PRO

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Mol	Chain	Res	Type
3	J9	21	GLU
11	a9	62	MET
11	a9	71	ILE
11	a9	84	THR
11	a9	86	ASP
11	a9	90	GLN
11	a9	93	LEU
11	a9	99	ALA
11	a9	352	PRO
11	a9	358	PRO
11	a9	589	THR
11	a9	590	PRO
11	a9	598	SER
11	a9	599	PRO
11	a9	604	ALA
11	a9	608	PRO
11	a9	619	ARG
11	a9	821	ARG
11	aA	62	MET
11	aA	71	ILE
11	aA	84	THR
11	aA	86	ASP
11	aA	90	GLN
11	aA	93	LEU
11	aA	99	ALA
11	aA	291	TYR
11	aA	352	PRO
11	aA	358	PRO
11	aA	556	LEU
11	aA	589	THR
11	aA	590	PRO
11	aA	598	SER
11	aA	599	PRO
11	aA	604	ALA
11	aA	608	PRO
11	aA	619	ARG
11	aA	821	ARG
3	L1	78	ARG
4	M1	2	ASN
4	M1	78	GLY
4	M1	79	PRO
4	M1	99	VAL

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Mol	Chain	Res	Type
4	M1	250	THR
2	IA	19	LEU
4	MA	34	ASP
6	M2	260	THR
7	N2	4	ASN
3	B4	113	LEU
4	M3	34	ASP
2	U3	47	ASN
3	F4	112	GLY
3	L4	70	GLY
3	L4	71	GLY
4	M4	34	ASP
3	Q4	97	LEU
3	Q4	117	TYR
5	Z4	27	ALA
5	Z4	39	PRO
5	Z4	40	SER
8	C5	25	ARG
8	I5	25	ARG
8	Q5	160	MET
8	W5	160	MET
6	M6	260	THR
7	N6	4	ASN
10	j5	269	LEU
10	j5	386	ILE
10	j5	487	PHE
10	j5	588	VAL
10	j5	636	GLY
10	j5	702	VAL
10	j5	920	ARG
10	j5	1138	GLN
10	k5	269	LEU
10	k5	386	ILE
10	k5	487	PHE
10	k5	588	VAL
10	k5	636	GLY
10	k5	702	VAL
10	k5	920	ARG
10	k5	1138	GLN
8	O7	21	GLY
3	F8	113	LEU
3	L8	70	GLY

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Mol	Chain	Res	Type
3	L8	71	GLY
4	M8	34	ASP
4	M9	24	ALA
4	M9	34	ASP
2	I9	19	LEU
11	a9	267	GLN
11	a9	291	TYR
11	a9	354	VAL
11	a9	355	GLU
11	a9	600	THR
11	a9	603	THR
11	a9	645	PRO
11	aA	267	GLN
11	aA	354	VAL
11	aA	355	GLU
11	aA	600	THR
11	aA	603	THR
11	aA	645	PRO
4	M1	34	ASP
4	MA	24	ALA
4	MA	26	SER
5	NA	2	SER
4	M3	24	ALA
4	M3	26	SER
5	N3	2	SER
3	F4	110	LEU
4	M4	7	SER
4	M4	24	ALA
4	M4	26	SER
8	O5	77	MET
5	Z4	2	SER
1	D5	40	ALA
1	J5	40	ALA
8	e5	12	ASP
8	U5	77	MET
8	a5	12	ASP
9	z5	12	PRO
9	i5	12	PRO
10	j5	218	ALA
10	j5	548	SER
10	j5	562	GLY
10	j5	1054	SER

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Mol	Chain	Res	Type
10	j5	1121	ALA
10	j5	1133	GLU
10	k5	218	ALA
10	k5	548	SER
10	k5	562	GLY
10	k5	1054	SER
10	k5	1133	GLU
8	U7	23	LEU
9	x7	12	PRO
9	y7	12	PRO
3	F8	111	ASN
4	M8	7	SER
4	M8	24	ALA
4	M8	26	SER
4	M8	98	ASP
4	M9	26	SER
5	N9	2	SER
5	Z8	2	SER
11	a9	83	ALA
11	aA	83	ALA
11	aA	305	ALA
4	M1	24	ALA
4	M1	26	SER
5	N1	2	SER
4	MA	259	ARG
4	M3	259	ARG
3	F4	113	LEU
4	M4	259	ARG
8	U5	20	PRO
10	j5	490	SER
10	j5	530	ALA
10	j5	544	VAL
10	j5	1077	ILE
10	k5	490	SER
10	k5	530	ALA
10	k5	544	VAL
10	k5	1077	ILE
10	k5	1121	ALA
8	m7	20	PRO
8	m7	22	GLU
9	z7	57	PHE
9	w7	57	PHE

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Mol	Chain	Res	Type
4	M8	259	ARG
3	O8	109	CYS
4	M9	259	ARG
11	a9	26	PRO
11	a9	38	VAL
11	a9	280	ASP
11	a9	284	PRO
11	aA	38	VAL
11	aA	65	LEU
11	aA	280	ASP
11	aA	284	PRO
11	aA	295	ARG
4	M1	259	ARG
1	A	48	ALA
1	A	74	THR
1	Z	48	ALA
1	Z	74	THR
3	BA	145	PRO
3	DA	145	PRO
3	HA	145	PRO
3	JA	145	PRO
3	LA	145	PRO
3	PA	145	PRO
3	RA	145	PRO
3	TA	145	PRO
3	VA	145	PRO
3	XA	145	PRO
3	ZA	145	PRO
3	P1	145	PRO
3	R1	145	PRO
3	H3	145	PRO
3	J3	145	PRO
3	H2	145	PRO
3	J2	145	PRO
3	L2	145	PRO
3	B3	145	PRO
3	D3	145	PRO
3	F3	145	PRO
3	Z3	145	PRO
3	B4	145	PRO
3	D4	145	PRO
3	L3	145	PRO

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Mol	Chain	Res	Type
3	P3	145	PRO
3	R3	145	PRO
3	T3	145	PRO
3	V3	145	PRO
3	X3	145	PRO
3	B1	145	PRO
3	S4	145	PRO
3	U4	145	PRO
3	W4	145	PRO
3	F4	145	PRO
3	H4	145	PRO
3	J4	145	PRO
3	L4	145	PRO
3	O4	145	PRO
3	Q4	145	PRO
1	L5	48	ALA
1	L5	74	THR
1	N5	48	ALA
1	N5	74	THR
3	Y4	145	PRO
5	Z4	37	HIS
1	B5	48	ALA
1	B5	74	THR
1	D5	48	ALA
1	D5	74	THR
1	F5	48	ALA
1	F5	74	THR
1	H5	48	ALA
1	H5	74	THR
1	J5	48	ALA
1	J5	74	THR
1	d5	48	ALA
1	d5	74	THR
8	e5	26	ILE
1	f5	48	ALA
1	f5	74	THR
1	P5	48	ALA
1	P5	74	THR
1	R5	48	ALA
1	R5	74	THR
1	T5	48	ALA
1	T5	74	THR

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Mol	Chain	Res	Type
1	V5	48	ALA
1	V5	74	THR
1	X5	48	ALA
1	X5	74	THR
1	Z5	48	ALA
1	Z5	74	THR
1	b5	48	ALA
1	b5	74	THR
3	J6	145	PRO
3	L6	145	PRO
9	z5	17	VAL
9	i5	17	VAL
10	j5	3	ILE
10	j5	34	TYR
10	j5	729	ILE
10	j5	760	ASP
10	k5	3	ILE
10	k5	34	TYR
10	k5	729	ILE
10	k5	760	ASP
10	k5	1107	ASN
3	B6	145	PRO
3	D6	145	PRO
3	F6	145	PRO
3	H6	145	PRO
3	D1	145	PRO
1	P7	48	ALA
1	P7	74	THR
1	R7	48	ALA
1	R7	74	THR
1	B7	48	ALA
1	B7	74	THR
1	D7	48	ALA
1	D7	74	THR
1	F7	48	ALA
1	F7	74	THR
1	H7	48	ALA
1	H7	74	THR
1	J7	48	ALA
1	J7	74	THR
1	L7	48	ALA
1	L7	74	THR

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Mol	Chain	Res	Type
1	N7	48	ALA
1	N7	74	THR
1	h7	74	THR
1	j7	48	ALA
1	j7	74	THR
1	T7	48	ALA
1	T7	74	THR
1	V7	48	ALA
1	V7	74	THR
1	X7	48	ALA
1	X7	74	THR
1	Z7	48	ALA
1	Z7	74	THR
1	b7	74	THR
1	d7	48	ALA
1	d7	74	THR
1	f7	48	ALA
1	f7	74	THR
3	B8	145	PRO
3	D8	145	PRO
1	l7	48	ALA
1	l7	74	THR
1	n7	48	ALA
1	n7	74	THR
1	p7	48	ALA
1	p7	74	THR
1	r7	48	ALA
1	r7	74	THR
1	t7	48	ALA
1	t7	74	THR
1	v7	48	ALA
1	v7	74	THR
3	U8	145	PRO
3	W8	145	PRO
3	F8	145	PRO
3	H8	145	PRO
3	J8	145	PRO
3	L8	145	PRO
3	O8	145	PRO
3	Q8	145	PRO
3	S8	145	PRO
3	F1	145	PRO

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Mol	Chain	Res	Type
3	L9	145	PRO
3	P9	145	PRO
3	Y8	145	PRO
3	B9	145	PRO
3	D9	145	PRO
3	F9	149	THR
3	H9	145	PRO
3	J9	145	PRO
3	R9	145	PRO
3	T9	145	PRO
3	V9	145	PRO
3	X9	145	PRO
3	Z9	145	PRO
11	a9	65	LEU
11	a9	336	ILE
11	a9	342	ARG
11	aA	26	PRO
11	aA	336	ILE
11	aA	342	ARG
3	H1	145	PRO
3	J1	145	PRO
3	L1	145	PRO
3	T1	145	PRO
3	V1	145	PRO
3	X1	145	PRO
3	Z1	145	PRO
3	B2	145	PRO
3	D2	145	PRO
3	F2	145	PRO
4	M4	99	VAL
10	j5	276	ALA
10	j5	413	SER
10	j5	912	VAL
10	j5	1013	PRO
10	k5	276	ALA
10	k5	413	SER
10	k5	912	VAL
10	k5	1013	PRO
8	U7	20	PRO
11	a9	256	SER
11	aA	256	SER
8	a5	26	ILE

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Mol	Chain	Res	Type
10	k5	558	VAL
5	NA	23	SER
5	N3	23	SER
8	K5	68	PRO
8	M5	68	PRO
8	O5	68	PRO
8	A5	68	PRO
8	C5	68	PRO
8	E5	68	PRO
8	G5	68	PRO
8	I5	68	PRO
8	e5	68	PRO
8	Q5	68	PRO
8	U5	68	PRO
8	W5	68	PRO
8	Y5	68	PRO
8	a5	68	PRO
8	A7	68	PRO
10	j5	705	THR
10	k5	705	THR
8	O7	68	PRO
8	Q7	68	PRO
8	S7	68	PRO
8	C7	68	PRO
8	E7	68	PRO
8	I7	68	PRO
8	K7	68	PRO
8	M7	68	PRO
8	g7	68	PRO
8	i7	68	PRO
8	U7	68	PRO
8	W7	68	PRO
8	Y7	68	PRO
8	a7	68	PRO
8	c7	68	PRO
8	e7	68	PRO
8	m7	68	PRO
8	s7	68	PRO
5	N9	23	SER
5	N1	23	SER
8	K5	108	GLY
8	E5	108	GLY

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Mol	Chain	Res	Type
8	c5	68	PRO
8	S5	68	PRO
8	G7	68	PRO
8	k7	68	PRO
8	o7	68	PRO
8	q7	68	PRO
8	u7	68	PRO
5	Z8	23	SER
11	a9	301	GLY
11	a9	543	GLN
11	aA	543	GLN
11	aA	296	VAL

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	121/121 (100%)	119 (98%)	2 (2%)	53 83
1	B5	121/121 (100%)	119 (98%)	2 (2%)	53 83
1	B7	121/121 (100%)	119 (98%)	2 (2%)	53 83
1	D5	121/121 (100%)	114 (94%)	7 (6%)	18 49
1	D7	121/121 (100%)	119 (98%)	2 (2%)	53 83
1	F5	121/121 (100%)	118 (98%)	3 (2%)	42 76
1	F7	121/121 (100%)	119 (98%)	2 (2%)	53 83
1	H5	121/121 (100%)	119 (98%)	2 (2%)	53 83
1	H7	121/121 (100%)	119 (98%)	2 (2%)	53 83
1	J5	121/121 (100%)	114 (94%)	7 (6%)	18 49
1	J7	121/121 (100%)	119 (98%)	2 (2%)	53 83
1	L5	121/121 (100%)	118 (98%)	3 (2%)	42 76
1	L7	121/121 (100%)	119 (98%)	2 (2%)	53 83
1	N5	121/121 (100%)	119 (98%)	2 (2%)	53 83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	N7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	P5	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	P7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	R5	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	R7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	T5	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	T7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	V5	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	V7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	X5	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	X7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	Z	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	Z5	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	Z7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	b5	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	b7	121/121 (100%)	114 (94%)	7 (6%)	18	49
1	d5	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	d7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	f5	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	f7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	h7	121/121 (100%)	114 (94%)	7 (6%)	18	49
1	j7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	l7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	n7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	p7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	r7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	t7	121/121 (100%)	119 (98%)	2 (2%)	53	83
1	v7	121/121 (100%)	119 (98%)	2 (2%)	53	83
2	A1	130/130 (100%)	125 (96%)	5 (4%)	29	64
2	A2	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	A3	130/130 (100%)	123 (95%)	7 (5%)	20	51

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	A4	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	A6	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	A8	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	A9	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	AA	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	C1	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	C2	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	C3	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	C4	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	C6	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	C8	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	C9	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	CA	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	E1	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	E2	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	E3	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	E4	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	E6	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	E8	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	E9	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	EA	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	G1	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	G2	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	G3	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	G4	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	G6	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	G8	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	G9	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	GA	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	I1	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	I2	130/130 (100%)	124 (95%)	6 (5%)	24	58

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	I3	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	I4	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	I6	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	I8	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	I9	130/130 (100%)	125 (96%)	5 (4%)	29	64
2	IA	130/130 (100%)	125 (96%)	5 (4%)	29	64
2	K1	130/130 (100%)	125 (96%)	5 (4%)	29	64
2	K2	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	K3	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	K4	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	K6	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	K8	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	K9	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	KA	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	N4	130/130 (100%)	125 (96%)	5 (4%)	29	64
2	N8	130/130 (100%)	125 (96%)	5 (4%)	29	64
2	O1	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	O3	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	O9	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	OA	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	P4	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	P8	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	Q1	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	Q3	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	Q9	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	QA	130/130 (100%)	123 (95%)	7 (5%)	20	51
2	R4	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	R8	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	S1	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	S3	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	S9	130/130 (100%)	124 (95%)	6 (5%)	24	58

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	SA	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	T4	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	T8	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	U1	130/130 (100%)	122 (94%)	8 (6%)	16	45
2	U3	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	U9	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	UA	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	V4	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	V8	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	W1	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	W3	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	W9	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	WA	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	X4	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	X8	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	Y1	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	Y3	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	Y9	130/130 (100%)	124 (95%)	6 (5%)	24	58
2	YA	130/130 (100%)	124 (95%)	6 (5%)	24	58
3	B1	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	B2	134/134 (100%)	130 (97%)	4 (3%)	36	72
3	B3	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	B4	134/134 (100%)	128 (96%)	6 (4%)	24	58
3	B6	134/134 (100%)	130 (97%)	4 (3%)	36	72
3	B8	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	B9	134/134 (100%)	132 (98%)	2 (2%)	57	84
3	BA	134/134 (100%)	132 (98%)	2 (2%)	57	84
3	D1	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	D2	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	D3	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	D4	134/134 (100%)	131 (98%)	3 (2%)	45	78

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	D6	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	D8	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	D9	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	DA	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	F1	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	F2	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	F3	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	F4	134/134 (100%)	130 (97%)	4 (3%)	36	72
3	F6	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	F8	134/134 (100%)	129 (96%)	5 (4%)	30	65
3	F9	134/134 (100%)	129 (96%)	5 (4%)	30	65
3	FA	134/134 (100%)	129 (96%)	5 (4%)	30	65
3	H1	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	H2	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	H3	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	H4	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	H6	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	H8	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	H9	134/134 (100%)	130 (97%)	4 (3%)	36	72
3	HA	134/134 (100%)	130 (97%)	4 (3%)	36	72
3	J1	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	J2	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	J3	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	J4	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	J6	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	J8	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	J9	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	JA	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	L1	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	L2	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	L3	134/134 (100%)	131 (98%)	3 (2%)	45	78

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	L4	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	L6	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	L8	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	L9	134/134 (100%)	124 (92%)	10 (8%)	12	37
3	LA	134/134 (100%)	124 (92%)	10 (8%)	12	37
3	O4	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	O8	134/134 (100%)	130 (97%)	4 (3%)	36	72
3	P1	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	P3	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	P9	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	PA	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	Q4	134/134 (100%)	129 (96%)	5 (4%)	30	65
3	Q8	134/134 (100%)	127 (95%)	7 (5%)	21	53
3	R1	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	R3	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	R9	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	RA	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	S4	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	S8	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	T1	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	T3	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	T9	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	TA	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	U4	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	U8	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	V1	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	V3	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	V9	134/134 (100%)	130 (97%)	4 (3%)	36	72
3	VA	134/134 (100%)	130 (97%)	4 (3%)	36	72
3	W4	134/134 (100%)	131 (98%)	3 (2%)	45	78
3	W8	134/134 (100%)	131 (98%)	3 (2%)	45	78

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	X1	134/134 (100%)	131 (98%)	3 (2%)	45 78
3	X3	134/134 (100%)	131 (98%)	3 (2%)	45 78
3	X9	134/134 (100%)	132 (98%)	2 (2%)	57 84
3	XA	134/134 (100%)	132 (98%)	2 (2%)	57 84
3	Y4	134/134 (100%)	129 (96%)	5 (4%)	30 65
3	Y8	134/134 (100%)	128 (96%)	6 (4%)	24 58
3	Z1	134/134 (100%)	130 (97%)	4 (3%)	36 72
3	Z3	134/134 (100%)	131 (98%)	3 (2%)	45 78
3	Z9	134/134 (100%)	131 (98%)	3 (2%)	45 78
3	ZA	134/134 (100%)	130 (97%)	4 (3%)	36 72
4	M1	235/238 (99%)	182 (77%)	53 (23%)	1 3
4	M3	235/238 (99%)	182 (77%)	53 (23%)	1 3
4	M4	235/238 (99%)	181 (77%)	54 (23%)	1 3
4	M8	235/238 (99%)	182 (77%)	53 (23%)	1 3
4	M9	235/238 (99%)	182 (77%)	53 (23%)	1 3
4	MA	235/238 (99%)	182 (77%)	53 (23%)	1 3
5	N1	66/240 (28%)	40 (61%)	26 (39%)	0 0
5	N3	66/240 (28%)	40 (61%)	26 (39%)	0 0
5	N9	66/240 (28%)	39 (59%)	27 (41%)	0 0
5	NA	66/240 (28%)	39 (59%)	27 (41%)	0 0
5	Z4	66/240 (28%)	43 (65%)	23 (35%)	0 0
5	Z8	66/240 (28%)	46 (70%)	20 (30%)	0 1
6	M2	230/603 (38%)	228 (99%)	2 (1%)	70 89
6	M6	230/603 (38%)	228 (99%)	2 (1%)	70 89
7	N2	61/62 (98%)	57 (93%)	4 (7%)	15 43
7	N6	61/62 (98%)	57 (93%)	4 (7%)	15 43
8	A5	127/128 (99%)	120 (94%)	7 (6%)	19 51
8	A7	127/128 (99%)	122 (96%)	5 (4%)	28 64
8	C5	127/128 (99%)	120 (94%)	7 (6%)	19 51
8	C7	127/128 (99%)	124 (98%)	3 (2%)	43 77
8	E5	127/128 (99%)	115 (91%)	12 (9%)	8 27

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
8	E7	127/128 (99%)	122 (96%)	5 (4%)	28 64
8	G5	127/128 (99%)	120 (94%)	7 (6%)	19 51
8	G7	127/128 (99%)	122 (96%)	5 (4%)	28 64
8	I5	127/128 (99%)	120 (94%)	7 (6%)	19 51
8	I7	127/128 (99%)	124 (98%)	3 (2%)	43 77
8	K5	127/128 (99%)	115 (91%)	12 (9%)	8 27
8	K7	127/128 (99%)	122 (96%)	5 (4%)	28 64
8	M5	127/128 (99%)	121 (95%)	6 (5%)	23 57
8	M7	127/128 (99%)	121 (95%)	6 (5%)	23 57
8	O5	127/128 (99%)	123 (97%)	4 (3%)	35 70
8	O7	127/128 (99%)	124 (98%)	3 (2%)	43 77
8	Q5	127/128 (99%)	121 (95%)	6 (5%)	23 57
8	Q7	127/128 (99%)	122 (96%)	5 (4%)	28 64
8	S5	127/128 (99%)	121 (95%)	6 (5%)	23 57
8	S7	127/128 (99%)	121 (95%)	6 (5%)	23 57
8	U5	127/128 (99%)	122 (96%)	5 (4%)	28 64
8	U7	127/128 (99%)	123 (97%)	4 (3%)	35 70
8	W5	127/128 (99%)	121 (95%)	6 (5%)	23 57
8	W7	127/128 (99%)	122 (96%)	5 (4%)	28 64
8	Y5	127/128 (99%)	121 (95%)	6 (5%)	23 57
8	Y7	127/128 (99%)	121 (95%)	6 (5%)	23 57
8	a5	127/128 (99%)	120 (94%)	7 (6%)	19 51
8	a7	127/128 (99%)	125 (98%)	2 (2%)	55 83
8	c5	127/128 (99%)	121 (95%)	6 (5%)	23 57
8	c7	127/128 (99%)	116 (91%)	11 (9%)	9 30
8	e5	127/128 (99%)	120 (94%)	7 (6%)	19 51
8	e7	127/128 (99%)	121 (95%)	6 (5%)	23 57
8	g7	127/128 (99%)	125 (98%)	2 (2%)	55 83
8	i7	127/128 (99%)	116 (91%)	11 (9%)	9 30
8	k7	127/128 (99%)	122 (96%)	5 (4%)	28 64
8	m7	127/128 (99%)	123 (97%)	4 (3%)	35 70

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
8	o7	127/128 (99%)	117 (92%)	10 (8%)	11 35
8	q7	127/128 (99%)	121 (95%)	6 (5%)	23 57
8	s7	127/128 (99%)	123 (97%)	4 (3%)	35 70
8	u7	127/128 (99%)	117 (92%)	10 (8%)	11 35
9	i5	57/57 (100%)	48 (84%)	9 (16%)	2 9
9	w7	57/57 (100%)	42 (74%)	15 (26%)	0 2
9	x7	57/57 (100%)	40 (70%)	17 (30%)	0 1
9	y7	57/57 (100%)	40 (70%)	17 (30%)	0 1
9	z5	57/57 (100%)	48 (84%)	9 (16%)	2 9
9	z7	57/57 (100%)	42 (74%)	15 (26%)	0 2
10	j5	941/977 (96%)	716 (76%)	225 (24%)	1 3
10	k5	941/977 (96%)	717 (76%)	224 (24%)	1 3
11	a9	652/670 (97%)	525 (80%)	127 (20%)	1 5
11	aA	652/670 (97%)	522 (80%)	130 (20%)	1 5
All	All	38254/40212 (95%)	35843 (94%)	2411 (6%)	18 45

All (2411) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	32	THR
1	A	157	SER
1	Z	32	THR
1	Z	157	SER
2	AA	17	ARG
2	AA	25	GLN
2	AA	30	ARG
2	AA	45	THR
2	AA	115	GLU
2	AA	123	SER
3	BA	67	ILE
3	BA	144	SER
2	CA	17	ARG
2	CA	25	GLN
2	CA	30	ARG
2	CA	45	THR
2	CA	115	GLU
2	CA	123	SER

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Mol	Chain	Res	Type
3	DA	6	THR
3	DA	65	ASP
3	DA	144	SER
2	EA	17	ARG
2	EA	25	GLN
2	EA	30	ARG
2	EA	45	THR
2	EA	115	GLU
2	EA	123	SER
3	FA	6	THR
3	FA	65	ASP
3	FA	146	SER
3	FA	156	LEU
3	FA	158	ASN
2	GA	17	ARG
2	GA	25	GLN
2	GA	30	ARG
2	GA	45	THR
2	GA	115	GLU
2	GA	123	SER
3	HA	6	THR
3	HA	65	ASP
3	HA	108	ARG
3	HA	144	SER
2	IA	25	GLN
2	IA	30	ARG
2	IA	45	THR
2	IA	115	GLU
2	IA	123	SER
3	JA	6	THR
3	JA	65	ASP
3	JA	144	SER
2	KA	17	ARG
2	KA	23	GLU
2	KA	30	ARG
2	KA	45	THR
2	KA	115	GLU
2	KA	123	SER
3	LA	6	THR
3	LA	65	ASP
3	LA	84	ARG
3	LA	88	ILE

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Mol	Chain	Res	Type
3	LA	94	SER
3	LA	97	LEU
3	LA	98	LEU
3	LA	115	GLU
3	LA	116	THR
3	LA	144	SER
4	MA	4	LEU
4	MA	13	LYS
4	MA	19	MET
4	MA	25	LEU
4	MA	33	LEU
4	MA	44	SER
4	MA	45	VAL
4	MA	50	ASP
4	MA	51	ARG
4	MA	52	LEU
4	MA	65	ARG
4	MA	68	ASP
4	MA	69	ILE
4	MA	73	ASP
4	MA	74	LEU
4	MA	77	LEU
4	MA	79	PRO
4	MA	87	ILE
4	MA	92	GLU
4	MA	100	SER
4	MA	101	ASP
4	MA	113	ILE
4	MA	123	GLU
4	MA	124	ARG
4	MA	125	LEU
4	MA	130	SER
4	MA	132	LEU
4	MA	137	ILE
4	MA	141	GLU
4	MA	146	LEU
4	MA	151	LEU
4	MA	155	ARG
4	MA	162	ASN
4	MA	166	THR
4	MA	167	GLU
4	MA	176	ARG

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Mol	Chain	Res	Type
4	MA	184	ILE
4	MA	189	ASP
4	MA	200	ILE
4	MA	202	SER
4	MA	211	GLN
4	MA	227	GLN
4	MA	230	GLN
4	MA	232	VAL
4	MA	241	LEU
4	MA	251	ASN
4	MA	255	GLN
4	MA	257	GLN
4	MA	261	VAL
4	MA	266	LEU
4	MA	271	ARG
4	MA	273	ILE
4	MA	274	VAL
5	NA	4	LEU
5	NA	7	ASP
5	NA	8	ASN
5	NA	9	GLN
5	NA	13	SER
5	NA	14	LYS
5	NA	15	LEU
5	NA	17	LYS
5	NA	18	ILE
5	NA	20	ILE
5	NA	22	LEU
5	NA	26	LEU
5	NA	30	PRO
5	NA	34	LEU
5	NA	41	GLN
5	NA	46	THR
5	NA	50	LEU
5	NA	51	GLU
5	NA	53	LEU
5	NA	55	PRO
5	NA	59	ARG
5	NA	60	ILE
5	NA	66	ARG
5	NA	67	ILE
5	NA	69	GLU

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Mol	Chain	Res	Type
5	NA	70	ILE
5	NA	74	GLU
2	OA	17	ARG
2	OA	25	GLN
2	OA	30	ARG
2	OA	45	THR
2	OA	115	GLU
2	OA	123	SER
3	PA	6	THR
3	PA	65	ASP
3	PA	144	SER
2	QA	17	ARG
2	QA	25	GLN
2	QA	30	ARG
2	QA	45	THR
2	QA	68	GLN
2	QA	115	GLU
2	QA	123	SER
3	RA	6	THR
3	RA	65	ASP
3	RA	144	SER
2	SA	17	ARG
2	SA	25	GLN
2	SA	30	ARG
2	SA	45	THR
2	SA	115	GLU
2	SA	123	SER
3	TA	6	THR
3	TA	65	ASP
3	TA	144	SER
2	UA	17	ARG
2	UA	25	GLN
2	UA	30	ARG
2	UA	45	THR
2	UA	115	GLU
2	UA	123	SER
3	VA	6	THR
3	VA	65	ASP
3	VA	108	ARG
3	VA	144	SER
2	WA	17	ARG
2	WA	25	GLN

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Mol	Chain	Res	Type
2	WA	30	ARG
2	WA	45	THR
2	WA	115	GLU
2	WA	123	SER
3	XA	65	ASP
3	XA	144	SER
2	YA	17	ARG
2	YA	25	GLN
2	YA	30	ARG
2	YA	45	THR
2	YA	115	GLU
2	YA	123	SER
3	ZA	6	THR
3	ZA	65	ASP
3	ZA	84	ARG
3	ZA	144	SER
2	O1	17	ARG
2	O1	25	GLN
2	O1	30	ARG
2	O1	45	THR
2	O1	115	GLU
2	O1	123	SER
3	P1	6	THR
3	P1	65	ASP
3	P1	144	SER
2	Q1	17	ARG
2	Q1	25	GLN
2	Q1	30	ARG
2	Q1	45	THR
2	Q1	115	GLU
2	Q1	123	SER
3	R1	6	THR
3	R1	65	ASP
3	R1	144	SER
2	S1	17	ARG
2	S1	25	GLN
2	S1	30	ARG
2	S1	45	THR
2	S1	115	GLU
2	S1	123	SER
2	A1	25	GLN
2	A1	45	THR

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Mol	Chain	Res	Type
2	A1	57	GLN
2	A1	115	GLU
2	A1	123	SER
2	G3	17	ARG
2	G3	25	GLN
2	G3	30	ARG
2	G3	45	THR
2	G3	115	GLU
2	G3	123	SER
3	H3	6	THR
3	H3	65	ASP
3	H3	144	SER
2	I3	17	ARG
2	I3	25	GLN
2	I3	30	ARG
2	I3	45	THR
2	I3	115	GLU
2	I3	123	SER
3	J3	6	THR
3	J3	65	ASP
3	J3	144	SER
2	K3	17	ARG
2	K3	25	GLN
2	K3	30	ARG
2	K3	45	THR
2	K3	115	GLU
2	K3	123	SER
2	G2	17	ARG
2	G2	25	GLN
2	G2	30	ARG
2	G2	45	THR
2	G2	115	GLU
2	G2	123	SER
3	H2	6	THR
3	H2	65	ASP
3	H2	144	SER
2	I2	17	ARG
2	I2	25	GLN
2	I2	30	ARG
2	I2	45	THR
2	I2	115	GLU
2	I2	123	SER

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Mol	Chain	Res	Type
3	J2	6	THR
3	J2	65	ASP
3	J2	144	SER
2	K2	17	ARG
2	K2	25	GLN
2	K2	30	ARG
2	K2	45	THR
2	K2	115	GLU
2	K2	123	SER
3	L2	6	THR
3	L2	65	ASP
3	L2	144	SER
6	M2	256	THR
6	M2	258	VAL
7	N2	1	MET
7	N2	2	TYR
7	N2	5	VAL
7	N2	49	LEU
2	A3	2	LYS
2	A3	17	ARG
2	A3	25	GLN
2	A3	30	ARG
2	A3	45	THR
2	A3	115	GLU
2	A3	123	SER
3	B3	6	THR
3	B3	65	ASP
3	B3	144	SER
2	C3	17	ARG
2	C3	25	GLN
2	C3	30	ARG
2	C3	45	THR
2	C3	115	GLU
2	C3	123	SER
3	D3	6	THR
3	D3	65	ASP
3	D3	144	SER
2	E3	17	ARG
2	E3	25	GLN
2	E3	30	ARG
2	E3	45	THR
2	E3	115	GLU

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Mol	Chain	Res	Type
2	E3	123	SER
3	F3	6	THR
3	F3	65	ASP
3	F3	144	SER
3	Z3	2	GLN
3	Z3	65	ASP
3	Z3	144	SER
2	A4	17	ARG
2	A4	25	GLN
2	A4	30	ARG
2	A4	45	THR
2	A4	115	GLU
2	A4	123	SER
3	B4	6	THR
3	B4	65	ASP
3	B4	110	LEU
3	B4	111	ASN
3	B4	113	LEU
3	B4	144	SER
2	C4	17	ARG
2	C4	25	GLN
2	C4	30	ARG
2	C4	45	THR
2	C4	115	GLU
2	C4	123	SER
3	D4	6	THR
3	D4	65	ASP
3	D4	144	SER
3	L3	6	THR
3	L3	65	ASP
3	L3	144	SER
4	M3	4	LEU
4	M3	13	LYS
4	M3	19	MET
4	M3	25	LEU
4	M3	33	LEU
4	M3	44	SER
4	M3	45	VAL
4	M3	50	ASP
4	M3	51	ARG
4	M3	52	LEU
4	M3	65	ARG

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Mol	Chain	Res	Type
4	M3	68	ASP
4	M3	69	ILE
4	M3	73	ASP
4	M3	74	LEU
4	M3	77	LEU
4	M3	79	PRO
4	M3	87	ILE
4	M3	92	GLU
4	M3	100	SER
4	M3	101	ASP
4	M3	113	ILE
4	M3	123	GLU
4	M3	124	ARG
4	M3	125	LEU
4	M3	130	SER
4	M3	132	LEU
4	M3	137	ILE
4	M3	141	GLU
4	M3	146	LEU
4	M3	151	LEU
4	M3	155	ARG
4	M3	162	ASN
4	M3	166	THR
4	M3	167	GLU
4	M3	176	ARG
4	M3	184	ILE
4	M3	189	ASP
4	M3	200	ILE
4	M3	202	SER
4	M3	211	GLN
4	M3	227	GLN
4	M3	230	GLN
4	M3	232	VAL
4	M3	241	LEU
4	M3	251	ASN
4	M3	255	GLN
4	M3	257	GLN
4	M3	261	VAL
4	M3	266	LEU
4	M3	271	ARG
4	M3	273	ILE
4	M3	274	VAL

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Mol	Chain	Res	Type
5	N3	4	LEU
5	N3	7	ASP
5	N3	8	ASN
5	N3	13	SER
5	N3	14	LYS
5	N3	15	LEU
5	N3	17	LYS
5	N3	18	ILE
5	N3	20	ILE
5	N3	22	LEU
5	N3	26	LEU
5	N3	30	PRO
5	N3	34	LEU
5	N3	41	GLN
5	N3	46	THR
5	N3	50	LEU
5	N3	51	GLU
5	N3	53	LEU
5	N3	55	PRO
5	N3	59	ARG
5	N3	60	ILE
5	N3	66	ARG
5	N3	67	ILE
5	N3	69	GLU
5	N3	70	ILE
5	N3	74	GLU
2	O3	17	ARG
2	O3	25	GLN
2	O3	30	ARG
2	O3	45	THR
2	O3	115	GLU
2	O3	123	SER
3	P3	6	THR
3	P3	65	ASP
3	P3	144	SER
2	Q3	17	ARG
2	Q3	25	GLN
2	Q3	30	ARG
2	Q3	45	THR
2	Q3	115	GLU
2	Q3	123	SER
3	R3	6	THR

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Mol	Chain	Res	Type
3	R3	65	ASP
3	R3	144	SER
2	S3	17	ARG
2	S3	25	GLN
2	S3	30	ARG
2	S3	45	THR
2	S3	115	GLU
2	S3	123	SER
3	T3	6	THR
3	T3	65	ASP
3	T3	144	SER
2	U3	17	ARG
2	U3	25	GLN
2	U3	30	ARG
2	U3	45	THR
2	U3	115	GLU
2	U3	123	SER
3	V3	6	THR
3	V3	65	ASP
3	V3	144	SER
2	W3	17	ARG
2	W3	25	GLN
2	W3	30	ARG
2	W3	45	THR
2	W3	115	GLU
2	W3	123	SER
3	X3	6	THR
3	X3	65	ASP
3	X3	144	SER
2	Y3	17	ARG
2	Y3	25	GLN
2	Y3	30	ARG
2	Y3	45	THR
2	Y3	115	GLU
2	Y3	123	SER
3	B1	6	THR
3	B1	65	ASP
3	B1	144	SER
3	S4	6	THR
3	S4	65	ASP
3	S4	144	SER
2	T4	17	ARG

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Mol	Chain	Res	Type
2	T4	25	GLN
2	T4	30	ARG
2	T4	45	THR
2	T4	115	GLU
2	T4	123	SER
3	U4	6	THR
3	U4	65	ASP
3	U4	144	SER
2	V4	17	ARG
2	V4	25	GLN
2	V4	30	ARG
2	V4	45	THR
2	V4	115	GLU
2	V4	123	SER
3	W4	6	THR
3	W4	65	ASP
3	W4	144	SER
2	E4	17	ARG
2	E4	25	GLN
2	E4	30	ARG
2	E4	45	THR
2	E4	115	GLU
2	E4	123	SER
3	F4	6	THR
3	F4	65	ASP
3	F4	110	LEU
3	F4	144	SER
2	G4	17	ARG
2	G4	25	GLN
2	G4	30	ARG
2	G4	45	THR
2	G4	115	GLU
2	G4	123	SER
3	H4	6	THR
3	H4	65	ASP
3	H4	144	SER
2	I4	17	ARG
2	I4	25	GLN
2	I4	30	ARG
2	I4	45	THR
2	I4	115	GLU
2	I4	123	SER

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Mol	Chain	Res	Type
3	J4	6	THR
3	J4	65	ASP
3	J4	144	SER
2	K4	17	ARG
2	K4	25	GLN
2	K4	30	ARG
2	K4	45	THR
2	K4	115	GLU
2	K4	123	SER
3	L4	6	THR
3	L4	65	ASP
3	L4	144	SER
4	M4	4	LEU
4	M4	7	SER
4	M4	13	LYS
4	M4	19	MET
4	M4	25	LEU
4	M4	33	LEU
4	M4	44	SER
4	M4	45	VAL
4	M4	50	ASP
4	M4	51	ARG
4	M4	52	LEU
4	M4	65	ARG
4	M4	68	ASP
4	M4	69	ILE
4	M4	73	ASP
4	M4	74	LEU
4	M4	77	LEU
4	M4	79	PRO
4	M4	87	ILE
4	M4	96	LYS
4	M4	100	SER
4	M4	101	ASP
4	M4	113	ILE
4	M4	123	GLU
4	M4	124	ARG
4	M4	125	LEU
4	M4	130	SER
4	M4	132	LEU
4	M4	137	ILE
4	M4	142	PHE

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Mol	Chain	Res	Type
4	M4	143	VAL
4	M4	146	LEU
4	M4	151	LEU
4	M4	155	ARG
4	M4	162	ASN
4	M4	166	THR
4	M4	167	GLU
4	M4	176	ARG
4	M4	184	ILE
4	M4	189	ASP
4	M4	200	ILE
4	M4	202	SER
4	M4	227	GLN
4	M4	230	GLN
4	M4	232	VAL
4	M4	241	LEU
4	M4	251	ASN
4	M4	255	GLN
4	M4	257	GLN
4	M4	261	VAL
4	M4	266	LEU
4	M4	271	ARG
4	M4	273	ILE
4	M4	274	VAL
2	N4	17	ARG
2	N4	25	GLN
2	N4	30	ARG
2	N4	45	THR
2	N4	123	SER
3	O4	6	THR
3	O4	65	ASP
3	O4	144	SER
2	P4	17	ARG
2	P4	25	GLN
2	P4	30	ARG
2	P4	45	THR
2	P4	115	GLU
2	P4	123	SER
3	Q4	6	THR
3	Q4	65	ASP
3	Q4	85	ASP
3	Q4	113	LEU

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Mol	Chain	Res	Type
3	Q4	144	SER
2	R4	17	ARG
2	R4	25	GLN
2	R4	30	ARG
2	R4	45	THR
2	R4	115	GLU
2	R4	123	SER
8	K5	34	GLU
8	K5	43	LEU
8	K5	58	LEU
8	K5	78	THR
8	K5	91	LEU
8	K5	96	ILE
8	K5	97	VAL
8	K5	102	THR
8	K5	105	GLU
8	K5	109	ILE
8	K5	110	ILE
8	K5	138	THR
1	L5	3	ASP
1	L5	32	THR
1	L5	157	SER
8	M5	34	GLU
8	M5	43	LEU
8	M5	52	LYS
8	M5	91	LEU
8	M5	102	THR
8	M5	138	THR
1	N5	32	THR
1	N5	157	SER
8	O5	20	PRO
8	O5	76	LYS
8	O5	91	LEU
8	O5	138	THR
2	X4	17	ARG
2	X4	25	GLN
2	X4	30	ARG
2	X4	45	THR
2	X4	115	GLU
2	X4	123	SER
3	Y4	6	THR
3	Y4	65	ASP

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Mol	Chain	Res	Type
3	Y4	101	ASP
3	Y4	113	LEU
3	Y4	144	SER
5	Z4	8	ASN
5	Z4	13	SER
5	Z4	14	LYS
5	Z4	15	LEU
5	Z4	17	LYS
5	Z4	18	ILE
5	Z4	20	ILE
5	Z4	22	LEU
5	Z4	36	THR
5	Z4	37	HIS
5	Z4	38	GLU
5	Z4	46	THR
5	Z4	50	LEU
5	Z4	51	GLU
5	Z4	53	LEU
5	Z4	55	PRO
5	Z4	59	ARG
5	Z4	60	ILE
5	Z4	66	ARG
5	Z4	67	ILE
5	Z4	69	GLU
5	Z4	70	ILE
5	Z4	74	GLU
8	A5	34	GLU
8	A5	43	LEU
8	A5	48	GLU
8	A5	52	LYS
8	A5	91	LEU
8	A5	102	THR
8	A5	138	THR
1	B5	32	THR
1	B5	157	SER
8	C5	4	LEU
8	C5	5	THR
8	C5	9	VAL
8	C5	16	ARG
8	C5	25	ARG
8	C5	91	LEU
8	C5	138	THR

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Mol	Chain	Res	Type
1	D5	1	MET
1	D5	3	ASP
1	D5	8	VAL
1	D5	11	ASN
1	D5	14	VAL
1	D5	32	THR
1	D5	157	SER
8	E5	34	GLU
8	E5	43	LEU
8	E5	58	LEU
8	E5	78	THR
8	E5	91	LEU
8	E5	96	ILE
8	E5	97	VAL
8	E5	102	THR
8	E5	105	GLU
8	E5	109	ILE
8	E5	110	ILE
8	E5	138	THR
1	F5	3	ASP
1	F5	32	THR
1	F5	157	SER
8	G5	34	GLU
8	G5	43	LEU
8	G5	48	GLU
8	G5	52	LYS
8	G5	91	LEU
8	G5	102	THR
8	G5	138	THR
1	H5	32	THR
1	H5	157	SER
8	I5	4	LEU
8	I5	5	THR
8	I5	9	VAL
8	I5	16	ARG
8	I5	25	ARG
8	I5	91	LEU
8	I5	138	THR
1	J5	1	MET
1	J5	3	ASP
1	J5	8	VAL
1	J5	11	ASN

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Mol	Chain	Res	Type
1	J5	14	VAL
1	J5	32	THR
1	J5	157	SER
2	C1	17	ARG
2	C1	25	GLN
2	C1	30	ARG
2	C1	45	THR
2	C1	115	GLU
2	C1	123	SER
8	c5	34	GLU
8	c5	43	LEU
8	c5	52	LYS
8	c5	91	LEU
8	c5	102	THR
8	c5	138	THR
1	d5	32	THR
1	d5	157	SER
8	e5	9	VAL
8	e5	18	LEU
8	e5	20	PRO
8	e5	25	ARG
8	e5	26	ILE
8	e5	91	LEU
8	e5	138	THR
1	f5	32	THR
1	f5	157	SER
1	P5	32	THR
1	P5	157	SER
8	Q5	34	GLU
8	Q5	43	LEU
8	Q5	91	LEU
8	Q5	102	THR
8	Q5	138	THR
8	Q5	161	GLN
1	R5	32	THR
1	R5	157	SER
8	S5	34	GLU
8	S5	43	LEU
8	S5	52	LYS
8	S5	91	LEU
8	S5	102	THR
8	S5	138	THR

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Mol	Chain	Res	Type
1	T5	32	THR
1	T5	157	SER
8	U5	20	PRO
8	U5	22	GLU
8	U5	76	LYS
8	U5	91	LEU
8	U5	138	THR
1	V5	32	THR
1	V5	157	SER
8	W5	34	GLU
8	W5	43	LEU
8	W5	91	LEU
8	W5	102	THR
8	W5	138	THR
8	W5	161	GLN
1	X5	32	THR
1	X5	157	SER
8	Y5	34	GLU
8	Y5	43	LEU
8	Y5	52	LYS
8	Y5	91	LEU
8	Y5	102	THR
8	Y5	138	THR
1	Z5	32	THR
1	Z5	157	SER
8	a5	9	VAL
8	a5	18	LEU
8	a5	20	PRO
8	a5	25	ARG
8	a5	26	ILE
8	a5	91	LEU
8	a5	138	THR
1	b5	32	THR
1	b5	157	SER
3	J6	6	THR
3	J6	65	ASP
3	J6	144	SER
2	K6	17	ARG
2	K6	25	GLN
2	K6	30	ARG
2	K6	45	THR
2	K6	115	GLU

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Mol	Chain	Res	Type
2	K6	123	SER
3	L6	6	THR
3	L6	65	ASP
3	L6	144	SER
6	M6	256	THR
6	M6	258	VAL
7	N6	1	MET
7	N6	2	TYR
7	N6	5	VAL
7	N6	49	LEU
8	A7	34	GLU
8	A7	43	LEU
8	A7	91	LEU
8	A7	102	THR
8	A7	138	THR
9	z5	14	LEU
9	z5	17	VAL
9	z5	22	GLU
9	z5	24	GLN
9	z5	39	THR
9	z5	43	ARG
9	z5	45	GLN
9	z5	56	LEU
9	z5	60	VAL
9	i5	14	LEU
9	i5	17	VAL
9	i5	22	GLU
9	i5	24	GLN
9	i5	39	THR
9	i5	43	ARG
9	i5	45	GLN
9	i5	56	LEU
9	i5	60	VAL
10	j5	9	SER
10	j5	15	ARG
10	j5	16	LEU
10	j5	19	THR
10	j5	21	MET
10	j5	24	THR
10	j5	29	ASN
10	j5	33	ARG
10	j5	35	PRO

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Mol	Chain	Res	Type
10	j5	39	GLU
10	j5	51	GLN
10	j5	57	VAL
10	j5	61	THR
10	j5	66	MET
10	j5	74	ARG
10	j5	80	SER
10	j5	87	ARG
10	j5	88	GLN
10	j5	136	VAL
10	j5	140	PHE
10	j5	147	ARG
10	j5	155	LYS
10	j5	156	SER
10	j5	157	ILE
10	j5	178	ILE
10	j5	179	LEU
10	j5	180	GLU
10	j5	182	ASN
10	j5	184	LEU
10	j5	186	LEU
10	j5	191	GLU
10	j5	192	LYS
10	j5	197	SER
10	j5	199	THR
10	j5	200	ILE
10	j5	201	VAL
10	j5	208	LYS
10	j5	209	ASN
10	j5	217	GLU
10	j5	221	LYS
10	j5	224	SER
10	j5	225	SER
10	j5	227	ILE
10	j5	232	ARG
10	j5	235	ASP
10	j5	238	ARG
10	j5	240	ASP
10	j5	245	ILE
10	j5	246	VAL
10	j5	252	ASP
10	j5	253	ARG

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Mol	Chain	Res	Type
10	j5	256	LEU
10	j5	261	ILE
10	j5	263	LYS
10	j5	264	LEU
10	j5	270	THR
10	j5	275	THR
10	j5	277	ILE
10	j5	283	ARG
10	j5	287	ASN
10	j5	292	GLU
10	j5	294	GLU
10	j5	297	VAL
10	j5	298	ARG
10	j5	325	ASN
10	j5	327	GLU
10	j5	328	ILE
10	j5	349	GLN
10	j5	362	LYS
10	j5	367	ARG
10	j5	370	GLU
10	j5	372	ARG
10	j5	381	ILE
10	j5	382	ILE
10	j5	383	SER
10	j5	388	ARG
10	j5	393	MET
10	j5	414	ILE
10	j5	421	PRO
10	j5	423	LEU
10	j5	449	ARG
10	j5	471	PRO
10	j5	476	ASN
10	j5	488	LYS
10	j5	489	ASN
10	j5	490	SER
10	j5	491	THR
10	j5	492	ILE
10	j5	493	ASN
10	j5	497	ARG
10	j5	501	ILE
10	j5	507	ARG
10	j5	517	SER

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Mol	Chain	Res	Type
10	j5	520	ARG
10	j5	527	SER
10	j5	532	THR
10	j5	535	PRO
10	j5	539	LYS
10	j5	541	THR
10	j5	544	VAL
10	j5	547	ARG
10	j5	548	SER
10	j5	549	LYS
10	j5	552	VAL
10	j5	557	VAL
10	j5	560	VAL
10	j5	567	LEU
10	j5	569	THR
10	j5	574	GLN
10	j5	578	ARG
10	j5	585	ARG
10	j5	586	LEU
10	j5	588	VAL
10	j5	591	ILE
10	j5	593	LEU
10	j5	602	GLU
10	j5	612	ILE
10	j5	615	LYS
10	j5	619	GLU
10	j5	633	ARG
10	j5	642	ARG
10	j5	651	ILE
10	j5	665	LEU
10	j5	676	GLU
10	j5	690	LEU
10	j5	703	LEU
10	j5	704	THR
10	j5	710	THR
10	j5	718	MET
10	j5	723	GLN
10	j5	724	GLU
10	j5	725	LEU
10	j5	727	THR
10	j5	728	PRO
10	j5	736	GLU

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Mol	Chain	Res	Type
10	j5	737	MET
10	j5	743	VAL
10	j5	744	PRO
10	j5	747	LYS
10	j5	752	VAL
10	j5	754	LYS
10	j5	755	GLN
10	j5	759	THR
10	j5	760	ASP
10	j5	761	ARG
10	j5	762	GLU
10	j5	767	LEU
10	j5	769	THR
10	j5	780	ILE
10	j5	795	LEU
10	j5	804	GLU
10	j5	809	LEU
10	j5	822	ARG
10	j5	826	THR
10	j5	834	LYS
10	j5	847	LEU
10	j5	854	LEU
10	j5	859	ILE
10	j5	867	VAL
10	j5	870	GLU
10	j5	882	PRO
10	j5	883	SER
10	j5	893	ASN
10	j5	899	GLU
10	j5	900	LEU
10	j5	902	ASN
10	j5	906	ARG
10	j5	909	ASP
10	j5	911	LEU
10	j5	919	ILE
10	j5	922	LYS
10	j5	923	MET
10	j5	925	ILE
10	j5	931	VAL
10	j5	935	LEU
10	j5	937	GLU
10	j5	941	THR

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Mol	Chain	Res	Type
10	j5	942	LYS
10	j5	943	THR
10	j5	946	ASP
10	j5	949	ARG
10	j5	951	MET
10	j5	963	ASP
10	j5	966	SER
10	j5	967	VAL
10	j5	969	VAL
10	j5	974	LEU
10	j5	976	ARG
10	j5	977	GLN
10	j5	978	LEU
10	j5	979	GLU
10	j5	984	ILE
10	j5	989	THR
10	j5	990	ARG
10	j5	991	SER
10	j5	992	GLU
10	j5	993	LYS
10	j5	1011	ILE
10	j5	1014	SER
10	j5	1015	TYR
10	j5	1017	ARG
10	j5	1019	SER
10	j5	1054	SER
10	j5	1064	LYS
10	j5	1067	LEU
10	j5	1069	ARG
10	j5	1086	THR
10	j5	1089	LEU
10	j5	1096	ILE
10	j5	1100	PRO
10	j5	1101	GLU
10	j5	1103	LEU
10	j5	1105	ILE
10	j5	1110	ILE
10	j5	1114	ARG
10	j5	1120	PRO
10	j5	1125	ARG
10	j5	1134	GLU
10	j5	1136	ILE

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Mol	Chain	Res	Type
10	j5	1144	SER
10	j5	1147	TYR
10	j5	1148	THR
10	j5	1150	TYR
10	j5	1152	TYR
10	j5	1155	ARG
10	k5	9	SER
10	k5	15	ARG
10	k5	16	LEU
10	k5	19	THR
10	k5	21	MET
10	k5	24	THR
10	k5	29	ASN
10	k5	33	ARG
10	k5	35	PRO
10	k5	39	GLU
10	k5	51	GLN
10	k5	57	VAL
10	k5	61	THR
10	k5	66	MET
10	k5	74	ARG
10	k5	80	SER
10	k5	87	ARG
10	k5	88	GLN
10	k5	136	VAL
10	k5	140	PHE
10	k5	147	ARG
10	k5	155	LYS
10	k5	156	SER
10	k5	157	ILE
10	k5	178	ILE
10	k5	179	LEU
10	k5	180	GLU
10	k5	182	ASN
10	k5	184	LEU
10	k5	186	LEU
10	k5	191	GLU
10	k5	192	LYS
10	k5	197	SER
10	k5	199	THR
10	k5	200	ILE
10	k5	201	VAL

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Mol	Chain	Res	Type
10	k5	208	LYS
10	k5	209	ASN
10	k5	217	GLU
10	k5	221	LYS
10	k5	224	SER
10	k5	225	SER
10	k5	227	ILE
10	k5	232	ARG
10	k5	235	ASP
10	k5	238	ARG
10	k5	240	ASP
10	k5	245	ILE
10	k5	246	VAL
10	k5	252	ASP
10	k5	253	ARG
10	k5	256	LEU
10	k5	261	ILE
10	k5	263	LYS
10	k5	264	LEU
10	k5	270	THR
10	k5	275	THR
10	k5	277	ILE
10	k5	283	ARG
10	k5	287	ASN
10	k5	292	GLU
10	k5	294	GLU
10	k5	297	VAL
10	k5	298	ARG
10	k5	325	ASN
10	k5	327	GLU
10	k5	328	ILE
10	k5	349	GLN
10	k5	362	LYS
10	k5	367	ARG
10	k5	370	GLU
10	k5	372	ARG
10	k5	381	ILE
10	k5	382	ILE
10	k5	383	SER
10	k5	388	ARG
10	k5	393	MET
10	k5	414	ILE

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Mol	Chain	Res	Type
10	k5	421	PRO
10	k5	423	LEU
10	k5	449	ARG
10	k5	471	PRO
10	k5	476	ASN
10	k5	488	LYS
10	k5	489	ASN
10	k5	490	SER
10	k5	491	THR
10	k5	492	ILE
10	k5	493	ASN
10	k5	497	ARG
10	k5	501	ILE
10	k5	507	ARG
10	k5	517	SER
10	k5	520	ARG
10	k5	527	SER
10	k5	532	THR
10	k5	535	PRO
10	k5	539	LYS
10	k5	541	THR
10	k5	544	VAL
10	k5	547	ARG
10	k5	548	SER
10	k5	549	LYS
10	k5	552	VAL
10	k5	559	THR
10	k5	567	LEU
10	k5	569	THR
10	k5	574	GLN
10	k5	578	ARG
10	k5	585	ARG
10	k5	586	LEU
10	k5	588	VAL
10	k5	591	ILE
10	k5	593	LEU
10	k5	602	GLU
10	k5	612	ILE
10	k5	615	LYS
10	k5	619	GLU
10	k5	633	ARG
10	k5	642	ARG

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Mol	Chain	Res	Type
10	k5	651	ILE
10	k5	665	LEU
10	k5	676	GLU
10	k5	690	LEU
10	k5	703	LEU
10	k5	704	THR
10	k5	710	THR
10	k5	718	MET
10	k5	723	GLN
10	k5	724	GLU
10	k5	725	LEU
10	k5	727	THR
10	k5	728	PRO
10	k5	736	GLU
10	k5	737	MET
10	k5	743	VAL
10	k5	744	PRO
10	k5	747	LYS
10	k5	752	VAL
10	k5	754	LYS
10	k5	755	GLN
10	k5	759	THR
10	k5	760	ASP
10	k5	761	ARG
10	k5	762	GLU
10	k5	767	LEU
10	k5	769	THR
10	k5	780	ILE
10	k5	795	LEU
10	k5	804	GLU
10	k5	809	LEU
10	k5	822	ARG
10	k5	826	THR
10	k5	834	LYS
10	k5	847	LEU
10	k5	854	LEU
10	k5	859	ILE
10	k5	867	VAL
10	k5	870	GLU
10	k5	882	PRO
10	k5	883	SER
10	k5	893	ASN

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Mol	Chain	Res	Type
10	k5	899	GLU
10	k5	900	LEU
10	k5	902	ASN
10	k5	906	ARG
10	k5	909	ASP
10	k5	910	SER
10	k5	911	LEU
10	k5	919	ILE
10	k5	922	LYS
10	k5	923	MET
10	k5	925	ILE
10	k5	931	VAL
10	k5	935	LEU
10	k5	937	GLU
10	k5	941	THR
10	k5	942	LYS
10	k5	943	THR
10	k5	946	ASP
10	k5	949	ARG
10	k5	951	MET
10	k5	963	ASP
10	k5	966	SER
10	k5	967	VAL
10	k5	969	VAL
10	k5	974	LEU
10	k5	976	ARG
10	k5	977	GLN
10	k5	978	LEU
10	k5	979	GLU
10	k5	984	ILE
10	k5	989	THR
10	k5	990	ARG
10	k5	991	SER
10	k5	992	GLU
10	k5	993	LYS
10	k5	1011	ILE
10	k5	1014	SER
10	k5	1015	TYR
10	k5	1017	ARG
10	k5	1019	SER
10	k5	1054	SER
10	k5	1064	LYS

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Mol	Chain	Res	Type
10	k5	1067	LEU
10	k5	1069	ARG
10	k5	1086	THR
10	k5	1089	LEU
10	k5	1096	ILE
10	k5	1100	PRO
10	k5	1101	GLU
10	k5	1103	LEU
10	k5	1105	ILE
10	k5	1114	ARG
10	k5	1120	PRO
10	k5	1125	ARG
10	k5	1134	GLU
10	k5	1136	ILE
10	k5	1144	SER
10	k5	1147	TYR
10	k5	1148	THR
10	k5	1150	TYR
10	k5	1152	TYR
10	k5	1155	ARG
2	A6	17	ARG
2	A6	25	GLN
2	A6	30	ARG
2	A6	45	THR
2	A6	115	GLU
2	A6	123	SER
3	B6	6	THR
3	B6	65	ASP
3	B6	77	ARG
3	B6	144	SER
2	C6	17	ARG
2	C6	25	GLN
2	C6	30	ARG
2	C6	45	THR
2	C6	115	GLU
2	C6	123	SER
3	D6	6	THR
3	D6	65	ASP
3	D6	144	SER
2	E6	17	ARG
2	E6	25	GLN
2	E6	30	ARG

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Mol	Chain	Res	Type
2	E6	45	THR
2	E6	115	GLU
2	E6	123	SER
3	F6	6	THR
3	F6	65	ASP
3	F6	144	SER
2	G6	17	ARG
2	G6	25	GLN
2	G6	30	ARG
2	G6	45	THR
2	G6	115	GLU
2	G6	123	SER
3	H6	6	THR
3	H6	65	ASP
3	H6	144	SER
2	I6	17	ARG
2	I6	25	GLN
2	I6	30	ARG
2	I6	45	THR
2	I6	115	GLU
2	I6	123	SER
3	D1	6	THR
3	D1	65	ASP
3	D1	144	SER
8	O7	20	PRO
8	O7	91	LEU
8	O7	138	THR
1	P7	32	THR
1	P7	157	SER
8	Q7	34	GLU
8	Q7	43	LEU
8	Q7	91	LEU
8	Q7	102	THR
8	Q7	138	THR
1	R7	32	THR
1	R7	157	SER
8	S7	34	GLU
8	S7	43	LEU
8	S7	52	LYS
8	S7	91	LEU
8	S7	102	THR
8	S7	138	THR

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Mol	Chain	Res	Type
1	B7	32	THR
1	B7	157	SER
8	C7	19	SER
8	C7	91	LEU
8	C7	138	THR
1	D7	32	THR
1	D7	157	SER
8	E7	34	GLU
8	E7	43	LEU
8	E7	91	LEU
8	E7	102	THR
8	E7	138	THR
1	F7	32	THR
1	F7	157	SER
8	G7	34	GLU
8	G7	43	LEU
8	G7	91	LEU
8	G7	102	THR
8	G7	138	THR
1	H7	32	THR
1	H7	157	SER
8	I7	19	SER
8	I7	91	LEU
8	I7	138	THR
1	J7	32	THR
1	J7	157	SER
8	K7	34	GLU
8	K7	43	LEU
8	K7	91	LEU
8	K7	102	THR
8	K7	138	THR
1	L7	32	THR
1	L7	157	SER
8	M7	34	GLU
8	M7	43	LEU
8	M7	52	LYS
8	M7	91	LEU
8	M7	102	THR
8	M7	138	THR
1	N7	32	THR
1	N7	157	SER
8	g7	91	LEU

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Mol	Chain	Res	Type
8	g7	138	THR
1	h7	28	LYS
1	h7	32	THR
1	h7	39	ARG
1	h7	44	ILE
1	h7	49	THR
1	h7	58	LYS
1	h7	157	SER
8	i7	34	GLU
8	i7	43	LEU
8	i7	91	LEU
8	i7	102	THR
8	i7	114	GLU
8	i7	121	THR
8	i7	123	ILE
8	i7	128	GLU
8	i7	131	ARG
8	i7	138	THR
8	i7	142	SER
1	j7	32	THR
1	j7	157	SER
8	k7	34	GLU
8	k7	43	LEU
8	k7	91	LEU
8	k7	102	THR
8	k7	138	THR
1	T7	32	THR
1	T7	157	SER
8	U7	19	SER
8	U7	20	PRO
8	U7	91	LEU
8	U7	138	THR
1	V7	32	THR
1	V7	157	SER
8	W7	34	GLU
8	W7	43	LEU
8	W7	91	LEU
8	W7	102	THR
8	W7	138	THR
1	X7	32	THR
1	X7	157	SER
8	Y7	34	GLU

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Mol	Chain	Res	Type
8	Y7	43	LEU
8	Y7	52	LYS
8	Y7	91	LEU
8	Y7	102	THR
8	Y7	138	THR
1	Z7	32	THR
1	Z7	157	SER
8	a7	91	LEU
8	a7	138	THR
1	b7	28	LYS
1	b7	32	THR
1	b7	39	ARG
1	b7	44	ILE
1	b7	49	THR
1	b7	58	LYS
1	b7	157	SER
8	c7	34	GLU
8	c7	43	LEU
8	c7	91	LEU
8	c7	102	THR
8	c7	114	GLU
8	c7	121	THR
8	c7	123	ILE
8	c7	128	GLU
8	c7	131	ARG
8	c7	138	THR
8	c7	142	SER
1	d7	32	THR
1	d7	157	SER
8	e7	34	GLU
8	e7	43	LEU
8	e7	52	LYS
8	e7	91	LEU
8	e7	102	THR
8	e7	138	THR
1	f7	32	THR
1	f7	157	SER
2	E1	17	ARG
2	E1	25	GLN
2	E1	30	ARG
2	E1	45	THR
2	E1	115	GLU

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Mol	Chain	Res	Type
2	E1	123	SER
2	A8	17	ARG
2	A8	25	GLN
2	A8	30	ARG
2	A8	45	THR
2	A8	115	GLU
2	A8	123	SER
3	B8	6	THR
3	B8	65	ASP
3	B8	144	SER
2	C8	17	ARG
2	C8	25	GLN
2	C8	30	ARG
2	C8	45	THR
2	C8	115	GLU
2	C8	123	SER
3	D8	6	THR
3	D8	65	ASP
3	D8	144	SER
2	E8	17	ARG
2	E8	25	GLN
2	E8	30	ARG
2	E8	45	THR
2	E8	115	GLU
2	E8	123	SER
1	l7	32	THR
1	l7	157	SER
8	m7	20	PRO
8	m7	22	GLU
8	m7	91	LEU
8	m7	138	THR
1	n7	32	THR
1	n7	157	SER
8	o7	34	GLU
8	o7	42	THR
8	o7	45	GLU
8	o7	47	ARG
8	o7	49	ARG
8	o7	58	LEU
8	o7	82	LEU
8	o7	91	LEU
8	o7	102	THR

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Mol	Chain	Res	Type
8	o7	138	THR
1	p7	32	THR
1	p7	157	SER
8	q7	34	GLU
8	q7	43	LEU
8	q7	52	LYS
8	q7	91	LEU
8	q7	102	THR
8	q7	138	THR
1	r7	32	THR
1	r7	157	SER
8	s7	19	SER
8	s7	20	PRO
8	s7	91	LEU
8	s7	138	THR
1	t7	32	THR
1	t7	157	SER
8	u7	34	GLU
8	u7	42	THR
8	u7	45	GLU
8	u7	47	ARG
8	u7	49	ARG
8	u7	58	LEU
8	u7	82	LEU
8	u7	91	LEU
8	u7	102	THR
8	u7	138	THR
1	v7	32	THR
1	v7	157	SER
9	z7	6	LYS
9	z7	7	VAL
9	z7	16	ARG
9	z7	17	VAL
9	z7	19	THR
9	z7	21	ARG
9	z7	26	THR
9	z7	39	THR
9	z7	40	GLU
9	z7	41	GLN
9	z7	51	VAL
9	z7	52	LEU
9	z7	55	LYS

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Mol	Chain	Res	Type
9	z7	56	LEU
9	z7	65	THR
9	w7	6	LYS
9	w7	7	VAL
9	w7	16	ARG
9	w7	17	VAL
9	w7	19	THR
9	w7	21	ARG
9	w7	26	THR
9	w7	39	THR
9	w7	40	GLU
9	w7	41	GLN
9	w7	51	VAL
9	w7	52	LEU
9	w7	55	LYS
9	w7	56	LEU
9	w7	65	THR
9	x7	11	ILE
9	x7	14	LEU
9	x7	21	ARG
9	x7	22	GLU
9	x7	23	LEU
9	x7	29	THR
9	x7	31	LEU
9	x7	41	GLN
9	x7	42	GLN
9	x7	43	ARG
9	x7	44	ILE
9	x7	52	LEU
9	x7	56	LEU
9	x7	58	THR
9	x7	61	GLN
9	x7	64	ASN
9	x7	65	THR
9	y7	11	ILE
9	y7	14	LEU
9	y7	21	ARG
9	y7	22	GLU
9	y7	23	LEU
9	y7	29	THR
9	y7	31	LEU
9	y7	41	GLN

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Mol	Chain	Res	Type
9	y7	42	GLN
9	y7	43	ARG
9	y7	44	ILE
9	y7	52	LEU
9	y7	56	LEU
9	y7	58	THR
9	y7	61	GLN
9	y7	64	ASN
9	y7	65	THR
2	T8	17	ARG
2	T8	25	GLN
2	T8	30	ARG
2	T8	45	THR
2	T8	115	GLU
2	T8	123	SER
3	U8	6	THR
3	U8	65	ASP
3	U8	144	SER
2	V8	17	ARG
2	V8	25	GLN
2	V8	30	ARG
2	V8	45	THR
2	V8	115	GLU
2	V8	123	SER
3	W8	6	THR
3	W8	65	ASP
3	W8	144	SER
2	X8	17	ARG
2	X8	25	GLN
2	X8	30	ARG
2	X8	45	THR
2	X8	115	GLU
2	X8	123	SER
3	F8	6	THR
3	F8	65	ASP
3	F8	111	ASN
3	F8	113	LEU
3	F8	144	SER
2	G8	17	ARG
2	G8	25	GLN
2	G8	30	ARG
2	G8	45	THR

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Mol	Chain	Res	Type
2	G8	115	GLU
2	G8	123	SER
3	H8	6	THR
3	H8	65	ASP
3	H8	144	SER
2	I8	17	ARG
2	I8	25	GLN
2	I8	30	ARG
2	I8	45	THR
2	I8	115	GLU
2	I8	123	SER
3	J8	6	THR
3	J8	65	ASP
3	J8	144	SER
2	K8	17	ARG
2	K8	25	GLN
2	K8	30	ARG
2	K8	45	THR
2	K8	115	GLU
2	K8	123	SER
3	L8	6	THR
3	L8	65	ASP
3	L8	144	SER
4	M8	4	LEU
4	M8	7	SER
4	M8	13	LYS
4	M8	19	MET
4	M8	25	LEU
4	M8	33	LEU
4	M8	44	SER
4	M8	45	VAL
4	M8	50	ASP
4	M8	51	ARG
4	M8	52	LEU
4	M8	65	ARG
4	M8	68	ASP
4	M8	69	ILE
4	M8	73	ASP
4	M8	74	LEU
4	M8	77	LEU
4	M8	79	PRO
4	M8	87	ILE

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Mol	Chain	Res	Type
4	M8	96	LYS
4	M8	98	ASP
4	M8	113	ILE
4	M8	123	GLU
4	M8	124	ARG
4	M8	125	LEU
4	M8	130	SER
4	M8	132	LEU
4	M8	137	ILE
4	M8	139	VAL
4	M8	146	LEU
4	M8	151	LEU
4	M8	155	ARG
4	M8	162	ASN
4	M8	166	THR
4	M8	167	GLU
4	M8	176	ARG
4	M8	184	ILE
4	M8	189	ASP
4	M8	200	ILE
4	M8	202	SER
4	M8	211	GLN
4	M8	227	GLN
4	M8	231	THR
4	M8	232	VAL
4	M8	241	LEU
4	M8	251	ASN
4	M8	255	GLN
4	M8	257	GLN
4	M8	261	VAL
4	M8	266	LEU
4	M8	271	ARG
4	M8	273	ILE
4	M8	274	VAL
2	N8	17	ARG
2	N8	25	GLN
2	N8	30	ARG
2	N8	45	THR
2	N8	123	SER
3	O8	6	THR
3	O8	65	ASP
3	O8	109	CYS

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Mol	Chain	Res	Type
3	O8	144	SER
2	P8	17	ARG
2	P8	25	GLN
2	P8	30	ARG
2	P8	45	THR
2	P8	115	GLU
2	P8	123	SER
3	Q8	6	THR
3	Q8	65	ASP
3	Q8	104	VAL
3	Q8	105	LEU
3	Q8	109	CYS
3	Q8	113	LEU
3	Q8	144	SER
2	R8	17	ARG
2	R8	25	GLN
2	R8	30	ARG
2	R8	45	THR
2	R8	115	GLU
2	R8	123	SER
3	S8	6	THR
3	S8	65	ASP
3	S8	144	SER
3	F1	6	THR
3	F1	65	ASP
3	F1	144	SER
3	L9	6	THR
3	L9	65	ASP
3	L9	84	ARG
3	L9	88	ILE
3	L9	94	SER
3	L9	97	LEU
3	L9	98	LEU
3	L9	115	GLU
3	L9	116	THR
3	L9	144	SER
4	M9	4	LEU
4	M9	13	LYS
4	M9	19	MET
4	M9	25	LEU
4	M9	33	LEU
4	M9	44	SER

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Mol	Chain	Res	Type
4	M9	45	VAL
4	M9	50	ASP
4	M9	51	ARG
4	M9	52	LEU
4	M9	65	ARG
4	M9	68	ASP
4	M9	69	ILE
4	M9	73	ASP
4	M9	74	LEU
4	M9	77	LEU
4	M9	79	PRO
4	M9	87	ILE
4	M9	92	GLU
4	M9	100	SER
4	M9	101	ASP
4	M9	113	ILE
4	M9	123	GLU
4	M9	124	ARG
4	M9	125	LEU
4	M9	130	SER
4	M9	132	LEU
4	M9	137	ILE
4	M9	141	GLU
4	M9	146	LEU
4	M9	151	LEU
4	M9	155	ARG
4	M9	162	ASN
4	M9	166	THR
4	M9	167	GLU
4	M9	176	ARG
4	M9	184	ILE
4	M9	189	ASP
4	M9	200	ILE
4	M9	202	SER
4	M9	211	GLN
4	M9	227	GLN
4	M9	230	GLN
4	M9	232	VAL
4	M9	241	LEU
4	M9	251	ASN
4	M9	255	GLN
4	M9	257	GLN

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Mol	Chain	Res	Type
4	M9	261	VAL
4	M9	266	LEU
4	M9	271	ARG
4	M9	273	ILE
4	M9	274	VAL
5	N9	4	LEU
5	N9	7	ASP
5	N9	8	ASN
5	N9	9	GLN
5	N9	13	SER
5	N9	14	LYS
5	N9	15	LEU
5	N9	17	LYS
5	N9	18	ILE
5	N9	20	ILE
5	N9	22	LEU
5	N9	26	LEU
5	N9	30	PRO
5	N9	34	LEU
5	N9	41	GLN
5	N9	46	THR
5	N9	50	LEU
5	N9	51	GLU
5	N9	53	LEU
5	N9	55	PRO
5	N9	59	ARG
5	N9	60	ILE
5	N9	66	ARG
5	N9	67	ILE
5	N9	69	GLU
5	N9	70	ILE
5	N9	74	GLU
2	O9	17	ARG
2	O9	25	GLN
2	O9	30	ARG
2	O9	45	THR
2	O9	115	GLU
2	O9	123	SER
3	P9	6	THR
3	P9	65	ASP
3	P9	144	SER
2	Q9	17	ARG

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Mol	Chain	Res	Type
2	Q9	25	GLN
2	Q9	30	ARG
2	Q9	45	THR
2	Q9	115	GLU
2	Q9	123	SER
3	Y8	6	THR
3	Y8	65	ASP
3	Y8	105	LEU
3	Y8	115	GLU
3	Y8	118	VAL
3	Y8	144	SER
5	Z8	13	SER
5	Z8	14	LYS
5	Z8	15	LEU
5	Z8	17	LYS
5	Z8	18	ILE
5	Z8	20	ILE
5	Z8	22	LEU
5	Z8	26	LEU
5	Z8	30	PRO
5	Z8	50	LEU
5	Z8	51	GLU
5	Z8	53	LEU
5	Z8	55	PRO
5	Z8	59	ARG
5	Z8	60	ILE
5	Z8	66	ARG
5	Z8	67	ILE
5	Z8	69	GLU
5	Z8	70	ILE
5	Z8	74	GLU
2	A9	17	ARG
2	A9	25	GLN
2	A9	30	ARG
2	A9	45	THR
2	A9	115	GLU
2	A9	123	SER
3	B9	67	ILE
3	B9	144	SER
2	C9	17	ARG
2	C9	25	GLN
2	C9	30	ARG

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Mol	Chain	Res	Type
2	C9	45	THR
2	C9	115	GLU
2	C9	123	SER
3	D9	6	THR
3	D9	65	ASP
3	D9	144	SER
2	E9	17	ARG
2	E9	25	GLN
2	E9	30	ARG
2	E9	45	THR
2	E9	115	GLU
2	E9	123	SER
3	F9	6	THR
3	F9	65	ASP
3	F9	144	SER
3	F9	146	SER
3	F9	156	LEU
2	G9	17	ARG
2	G9	25	GLN
2	G9	30	ARG
2	G9	45	THR
2	G9	115	GLU
2	G9	123	SER
3	H9	6	THR
3	H9	65	ASP
3	H9	108	ARG
3	H9	144	SER
2	I9	25	GLN
2	I9	30	ARG
2	I9	45	THR
2	I9	115	GLU
2	I9	123	SER
3	J9	6	THR
3	J9	65	ASP
3	J9	144	SER
2	K9	17	ARG
2	K9	23	GLU
2	K9	30	ARG
2	K9	45	THR
2	K9	115	GLU
2	K9	123	SER
3	R9	6	THR

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Mol	Chain	Res	Type
3	R9	65	ASP
3	R9	144	SER
2	S9	17	ARG
2	S9	25	GLN
2	S9	30	ARG
2	S9	45	THR
2	S9	115	GLU
2	S9	123	SER
3	T9	6	THR
3	T9	65	ASP
3	T9	144	SER
2	U9	17	ARG
2	U9	25	GLN
2	U9	30	ARG
2	U9	45	THR
2	U9	115	GLU
2	U9	123	SER
3	V9	6	THR
3	V9	65	ASP
3	V9	108	ARG
3	V9	144	SER
2	W9	17	ARG
2	W9	25	GLN
2	W9	30	ARG
2	W9	45	THR
2	W9	115	GLU
2	W9	123	SER
3	X9	65	ASP
3	X9	144	SER
2	Y9	17	ARG
2	Y9	25	GLN
2	Y9	30	ARG
2	Y9	45	THR
2	Y9	115	GLU
2	Y9	123	SER
3	Z9	65	ASP
3	Z9	84	ARG
3	Z9	144	SER
2	G1	17	ARG
2	G1	25	GLN
2	G1	30	ARG
2	G1	45	THR

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Mol	Chain	Res	Type
2	G1	115	GLU
2	G1	123	SER
11	a9	21	THR
11	a9	29	ARG
11	a9	31	SER
11	a9	32	ARG
11	a9	33	MET
11	a9	34	ILE
11	a9	35	ARG
11	a9	38	VAL
11	a9	40	GLU
11	a9	42	ARG
11	a9	48	LEU
11	a9	52	MET
11	a9	62	MET
11	a9	64	ARG
11	a9	71	ILE
11	a9	73	TYR
11	a9	86	ASP
11	a9	92	LYS
11	a9	93	LEU
11	a9	95	ILE
11	a9	106	LEU
11	a9	111	THR
11	a9	173	THR
11	a9	258	ASP
11	a9	266	ASN
11	a9	276	SER
11	a9	278	LEU
11	a9	280	ASP
11	a9	285	VAL
11	a9	286	ARG
11	a9	288	ARG
11	a9	289	THR
11	a9	290	ASP
11	a9	294	THR
11	a9	307	ARG
11	a9	312	ASP
11	a9	313	GLU
11	a9	314	SER
11	a9	315	LEU
11	a9	319	LEU

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Mol	Chain	Res	Type
11	a9	323	ARG
11	a9	325	LEU
11	a9	328	GLN
11	a9	332	SER
11	a9	333	GLN
11	a9	337	GLU
11	a9	338	VAL
11	a9	348	GLN
11	a9	350	LEU
11	a9	354	VAL
11	a9	355	GLU
11	a9	357	THR
11	a9	358	PRO
11	a9	363	GLN
11	a9	365	LYS
11	a9	366	LEU
11	a9	375	GLN
11	a9	379	LEU
11	a9	387	GLU
11	a9	388	VAL
11	a9	399	ILE
11	a9	405	ILE
11	a9	411	VAL
11	a9	415	GLU
11	a9	416	SER
11	a9	419	ARG
11	a9	426	ARG
11	a9	427	GLU
11	a9	431	LEU
11	a9	437	LEU
11	a9	439	ARG
11	a9	445	THR
11	a9	454	LEU
11	a9	455	ASN
11	a9	460	LEU
11	a9	462	ARG
11	a9	470	ILE
11	a9	479	LYS
11	a9	490	ILE
11	a9	498	VAL
11	a9	508	ARG
11	a9	519	ARG

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Mol	Chain	Res	Type
11	a9	522	ASP
11	a9	526	GLN
11	a9	531	ASP
11	a9	538	ARG
11	a9	543	GLN
11	a9	549	THR
11	a9	556	LEU
11	a9	559	THR
11	a9	562	TYR
11	a9	574	ASP
11	a9	576	LEU
11	a9	580	THR
11	a9	585	GLU
11	a9	586	LEU
11	a9	591	VAL
11	a9	594	ARG
11	a9	597	THR
11	a9	600	THR
11	a9	602	PRO
11	a9	603	THR
11	a9	605	PRO
11	a9	607	MET
11	a9	609	LEU
11	a9	615	ARG
11	a9	619	ARG
11	a9	621	THR
11	a9	623	ASP
11	a9	628	THR
11	a9	629	LYS
11	a9	630	LEU
11	a9	632	ILE
11	a9	635	VAL
11	a9	637	PRO
11	a9	639	GLN
11	a9	641	VAL
11	a9	643	LEU
11	a9	730	ASN
11	a9	778	THR
11	a9	795	ASP
11	a9	801	ASN
11	a9	802	ARG
11	a9	814	GLN

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Mol	Chain	Res	Type
11	a9	816	LEU
11	a9	818	ARG
11	a9	823	ILE
11	aA	21	THR
11	aA	29	ARG
11	aA	31	SER
11	aA	32	ARG
11	aA	33	MET
11	aA	34	ILE
11	aA	35	ARG
11	aA	38	VAL
11	aA	40	GLU
11	aA	42	ARG
11	aA	48	LEU
11	aA	52	MET
11	aA	62	MET
11	aA	64	ARG
11	aA	71	ILE
11	aA	73	TYR
11	aA	86	ASP
11	aA	92	LYS
11	aA	93	LEU
11	aA	95	ILE
11	aA	106	LEU
11	aA	111	THR
11	aA	173	THR
11	aA	258	ASP
11	aA	266	ASN
11	aA	276	SER
11	aA	278	LEU
11	aA	280	ASP
11	aA	285	VAL
11	aA	286	ARG
11	aA	288	ARG
11	aA	289	THR
11	aA	290	ASP
11	aA	297	ASP
11	aA	302	ASN
11	aA	307	ARG
11	aA	312	ASP
11	aA	313	GLU
11	aA	314	SER

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Mol	Chain	Res	Type
11	aA	315	LEU
11	aA	319	LEU
11	aA	323	ARG
11	aA	325	LEU
11	aA	328	GLN
11	aA	332	SER
11	aA	333	GLN
11	aA	337	GLU
11	aA	338	VAL
11	aA	348	GLN
11	aA	350	LEU
11	aA	354	VAL
11	aA	355	GLU
11	aA	357	THR
11	aA	358	PRO
11	aA	363	GLN
11	aA	365	LYS
11	aA	366	LEU
11	aA	375	GLN
11	aA	379	LEU
11	aA	387	GLU
11	aA	388	VAL
11	aA	399	ILE
11	aA	405	ILE
11	aA	411	VAL
11	aA	415	GLU
11	aA	416	SER
11	aA	419	ARG
11	aA	426	ARG
11	aA	427	GLU
11	aA	431	LEU
11	aA	437	LEU
11	aA	439	ARG
11	aA	445	THR
11	aA	454	LEU
11	aA	455	ASN
11	aA	460	LEU
11	aA	462	ARG
11	aA	470	ILE
11	aA	479	LYS
11	aA	490	ILE
11	aA	498	VAL

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Mol	Chain	Res	Type
11	aA	508	ARG
11	aA	519	ARG
11	aA	522	ASP
11	aA	526	GLN
11	aA	531	ASP
11	aA	538	ARG
11	aA	543	GLN
11	aA	549	THR
11	aA	553	SER
11	aA	554	ARG
11	aA	556	LEU
11	aA	559	THR
11	aA	562	TYR
11	aA	574	ASP
11	aA	576	LEU
11	aA	580	THR
11	aA	585	GLU
11	aA	586	LEU
11	aA	591	VAL
11	aA	594	ARG
11	aA	597	THR
11	aA	600	THR
11	aA	602	PRO
11	aA	603	THR
11	aA	605	PRO
11	aA	607	MET
11	aA	609	LEU
11	aA	615	ARG
11	aA	619	ARG
11	aA	621	THR
11	aA	623	ASP
11	aA	628	THR
11	aA	629	LYS
11	aA	630	LEU
11	aA	632	ILE
11	aA	635	VAL
11	aA	637	PRO
11	aA	639	GLN
11	aA	641	VAL
11	aA	643	LEU
11	aA	730	ASN
11	aA	778	THR

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Mol	Chain	Res	Type
11	aA	795	ASP
11	aA	801	ASN
11	aA	814	GLN
11	aA	816	LEU
11	aA	818	ARG
11	aA	823	ILE
11	aA	824	VAL
3	H1	6	THR
3	H1	65	ASP
3	H1	144	SER
2	I1	17	ARG
2	I1	25	GLN
2	I1	30	ARG
2	I1	45	THR
2	I1	115	GLU
2	I1	123	SER
3	J1	6	THR
3	J1	65	ASP
3	J1	144	SER
2	K1	17	ARG
2	K1	25	GLN
2	K1	30	ARG
2	K1	45	THR
2	K1	123	SER
3	L1	6	THR
3	L1	65	ASP
3	L1	144	SER
4	M1	4	LEU
4	M1	13	LYS
4	M1	19	MET
4	M1	25	LEU
4	M1	33	LEU
4	M1	44	SER
4	M1	45	VAL
4	M1	50	ASP
4	M1	51	ARG
4	M1	52	LEU
4	M1	65	ARG
4	M1	68	ASP
4	M1	69	ILE
4	M1	73	ASP
4	M1	74	LEU

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Mol	Chain	Res	Type
4	M1	77	LEU
4	M1	79	PRO
4	M1	87	ILE
4	M1	92	GLU
4	M1	100	SER
4	M1	101	ASP
4	M1	113	ILE
4	M1	123	GLU
4	M1	124	ARG
4	M1	125	LEU
4	M1	130	SER
4	M1	132	LEU
4	M1	137	ILE
4	M1	141	GLU
4	M1	146	LEU
4	M1	151	LEU
4	M1	155	ARG
4	M1	162	ASN
4	M1	166	THR
4	M1	167	GLU
4	M1	176	ARG
4	M1	184	ILE
4	M1	189	ASP
4	M1	200	ILE
4	M1	202	SER
4	M1	211	GLN
4	M1	227	GLN
4	M1	230	GLN
4	M1	232	VAL
4	M1	241	LEU
4	M1	251	ASN
4	M1	255	GLN
4	M1	257	GLN
4	M1	261	VAL
4	M1	266	LEU
4	M1	271	ARG
4	M1	273	ILE
4	M1	274	VAL
5	N1	4	LEU
5	N1	7	ASP
5	N1	8	ASN
5	N1	13	SER

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Mol	Chain	Res	Type
5	N1	14	LYS
5	N1	15	LEU
5	N1	17	LYS
5	N1	18	ILE
5	N1	20	ILE
5	N1	22	LEU
5	N1	26	LEU
5	N1	30	PRO
5	N1	34	LEU
5	N1	41	GLN
5	N1	46	THR
5	N1	50	LEU
5	N1	51	GLU
5	N1	53	LEU
5	N1	55	PRO
5	N1	59	ARG
5	N1	60	ILE
5	N1	66	ARG
5	N1	67	ILE
5	N1	69	GLU
5	N1	70	ILE
5	N1	74	GLU
3	T1	6	THR
3	T1	65	ASP
3	T1	144	SER
2	U1	17	ARG
2	U1	25	GLN
2	U1	30	ARG
2	U1	45	THR
2	U1	46	SER
2	U1	47	ASN
2	U1	115	GLU
2	U1	123	SER
3	V1	6	THR
3	V1	65	ASP
3	V1	144	SER
2	W1	17	ARG
2	W1	25	GLN
2	W1	30	ARG
2	W1	45	THR
2	W1	115	GLU
2	W1	123	SER

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Mol	Chain	Res	Type
3	X1	6	THR
3	X1	65	ASP
3	X1	144	SER
2	Y1	17	ARG
2	Y1	25	GLN
2	Y1	30	ARG
2	Y1	45	THR
2	Y1	115	GLU
2	Y1	123	SER
3	Z1	6	THR
3	Z1	57	HIS
3	Z1	65	ASP
3	Z1	144	SER
2	A2	17	ARG
2	A2	25	GLN
2	A2	30	ARG
2	A2	45	THR
2	A2	115	GLU
2	A2	123	SER
3	B2	6	THR
3	B2	65	ASP
3	B2	77	ARG
3	B2	144	SER
2	C2	17	ARG
2	C2	25	GLN
2	C2	30	ARG
2	C2	45	THR
2	C2	115	GLU
2	C2	123	SER
3	D2	6	THR
3	D2	65	ASP
3	D2	144	SER
2	E2	17	ARG
2	E2	25	GLN
2	E2	30	ARG
2	E2	45	THR
2	E2	115	GLU
2	E2	123	SER
3	F2	6	THR
3	F2	65	ASP
3	F2	144	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (542)

such sidechains are listed below:

Mol	Chain	Res	Type
1	A	11	ASN
1	A	110	ASN
1	Z	11	ASN
2	AA	88	HIS
2	AA	145	GLN
3	BA	2	GLN
2	CA	88	HIS
3	DA	2	GLN
2	EA	21	ASN
2	EA	88	HIS
3	FA	2	GLN
3	FA	47	ASN
2	GA	88	HIS
3	HA	2	GLN
2	IA	15	GLN
2	IA	25	GLN
2	IA	88	HIS
3	JA	2	GLN
2	KA	88	HIS
3	LA	2	GLN
4	MA	40	GLN
4	MA	41	ASN
4	MA	163	ASN
4	MA	172	HIS
4	MA	216	ASN
4	MA	227	GLN
4	MA	251	ASN
4	MA	257	GLN
5	NA	29	HIS
5	NA	37	HIS
5	NA	41	GLN
2	OA	88	HIS
2	OA	145	GLN
3	PA	2	GLN
3	PA	111	ASN
2	QA	25	GLN
3	RA	2	GLN
3	RA	111	ASN
2	SA	88	HIS
3	TA	2	GLN
3	TA	57	HIS
3	TA	76	ASN

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Mol	Chain	Res	Type
2	UA	28	ASN
2	UA	88	HIS
3	VA	2	GLN
2	WA	88	HIS
3	XA	2	GLN
2	YA	88	HIS
3	ZA	2	GLN
3	ZA	111	ASN
2	O1	145	GLN
3	P1	2	GLN
3	P1	111	ASN
2	Q1	88	HIS
3	R1	2	GLN
3	R1	111	ASN
2	S1	88	HIS
2	A1	88	HIS
2	A1	145	GLN
2	G3	88	HIS
3	H3	2	GLN
3	H3	111	ASN
2	I3	88	HIS
3	J3	2	GLN
3	J3	111	ASN
2	K3	88	HIS
2	G2	88	HIS
3	H2	2	GLN
2	I2	88	HIS
3	J2	2	GLN
2	K2	88	HIS
3	L2	2	GLN
3	L2	132	GLN
6	M2	74	GLN
6	M2	160	ASN
6	M2	178	HIS
6	M2	227	GLN
7	N2	53	GLN
2	A3	145	GLN
3	B3	2	GLN
2	C3	88	HIS
3	D3	2	GLN
2	E3	88	HIS
3	F3	2	GLN

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Mol	Chain	Res	Type
3	Z3	2	GLN
2	A4	88	HIS
2	A4	145	GLN
3	B4	2	GLN
3	B4	111	ASN
2	C4	88	HIS
3	D4	2	GLN
3	L3	2	GLN
3	L3	111	ASN
4	M3	27	HIS
4	M3	40	GLN
4	M3	41	ASN
4	M3	163	ASN
4	M3	172	HIS
4	M3	181	GLN
4	M3	216	ASN
4	M3	227	GLN
4	M3	251	ASN
4	M3	257	GLN
5	N3	9	GLN
5	N3	29	HIS
5	N3	37	HIS
5	N3	41	GLN
2	O3	88	HIS
2	O3	145	GLN
3	P3	2	GLN
3	P3	111	ASN
2	Q3	88	HIS
3	R3	2	GLN
3	R3	111	ASN
2	S3	88	HIS
3	T3	2	GLN
2	U3	88	HIS
3	V3	2	GLN
3	V3	111	ASN
2	W3	88	HIS
3	X3	2	GLN
3	X3	111	ASN
2	Y3	88	HIS
3	B1	2	GLN
3	B1	111	ASN
3	S4	2	GLN

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Mol	Chain	Res	Type
3	S4	72	ASN
2	T4	88	HIS
3	U4	2	GLN
2	V4	88	HIS
2	E4	88	HIS
3	F4	2	GLN
2	G4	15	GLN
2	G4	88	HIS
3	H4	2	GLN
2	I4	88	HIS
3	J4	2	GLN
2	K4	88	HIS
3	L4	2	GLN
4	M4	9	GLN
4	M4	28	HIS
4	M4	40	GLN
4	M4	172	HIS
4	M4	180	ASN
4	M4	227	GLN
4	M4	251	ASN
4	M4	257	GLN
2	N4	88	HIS
2	N4	145	GLN
3	O4	2	GLN
2	P4	88	HIS
3	Q4	2	GLN
3	Q4	29	ASN
3	Q4	111	ASN
2	R4	88	HIS
8	K5	57	GLN
1	L5	10	ASN
1	L5	11	ASN
1	L5	110	ASN
1	N5	11	ASN
1	N5	110	ASN
8	O5	10	ASN
8	O5	57	GLN
8	O5	120	GLN
8	O5	161	GLN
2	X4	57	GLN
2	X4	88	HIS
5	Z4	9	GLN

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Mol	Chain	Res	Type
5	Z4	28	HIS
5	Z4	63	ASN
8	A5	57	GLN
1	B5	11	ASN
8	C5	57	GLN
1	D5	11	ASN
1	D5	15	GLN
8	E5	57	GLN
8	E5	161	GLN
1	F5	10	ASN
1	F5	11	ASN
1	F5	110	ASN
8	G5	57	GLN
1	H5	15	GLN
8	I5	57	GLN
1	J5	11	ASN
1	J5	15	GLN
2	C1	88	HIS
1	d5	11	ASN
1	d5	110	ASN
8	e5	57	GLN
1	f5	11	ASN
1	f5	110	ASN
1	P5	11	ASN
8	Q5	57	GLN
8	Q5	161	GLN
1	T5	11	ASN
1	T5	110	ASN
8	U5	57	GLN
8	U5	120	GLN
1	V5	11	ASN
8	W5	57	GLN
8	W5	161	GLN
1	X5	11	ASN
1	Z5	11	ASN
1	Z5	110	ASN
8	a5	57	GLN
1	b5	11	ASN
1	b5	110	ASN
3	J6	2	GLN
2	K6	88	HIS
3	L6	2	GLN

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Mol	Chain	Res	Type
3	L6	132	GLN
6	M6	74	GLN
6	M6	160	ASN
6	M6	178	HIS
6	M6	227	GLN
7	N6	53	GLN
9	z5	24	GLN
9	z5	42	GLN
9	z5	45	GLN
9	z5	64	ASN
9	i5	24	GLN
9	i5	42	GLN
9	i5	45	GLN
9	i5	64	ASN
10	j5	26	ASN
10	j5	42	GLN
10	j5	45	GLN
10	j5	182	ASN
10	j5	287	ASN
10	j5	353	ASN
10	j5	376	GLN
10	j5	431	GLN
10	j5	469	GLN
10	j5	470	HIS
10	j5	482	GLN
10	j5	489	ASN
10	j5	574	GLN
10	j5	584	GLN
10	j5	631	HIS
10	j5	723	GLN
10	j5	755	GLN
10	j5	774	GLN
10	j5	818	GLN
10	j5	820	HIS
10	j5	844	GLN
10	j5	885	GLN
10	j5	893	ASN
10	j5	932	GLN
10	j5	965	GLN
10	j5	977	GLN
10	j5	1044	ASN
10	j5	1065	HIS

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Mol	Chain	Res	Type
10	j5	1151	GLN
10	k5	26	ASN
10	k5	42	GLN
10	k5	45	GLN
10	k5	182	ASN
10	k5	287	ASN
10	k5	353	ASN
10	k5	376	GLN
10	k5	431	GLN
10	k5	469	GLN
10	k5	470	HIS
10	k5	489	ASN
10	k5	553	GLN
10	k5	574	GLN
10	k5	584	GLN
10	k5	631	HIS
10	k5	723	GLN
10	k5	730	ASN
10	k5	755	GLN
10	k5	774	GLN
10	k5	818	GLN
10	k5	844	GLN
10	k5	885	GLN
10	k5	893	ASN
10	k5	932	GLN
10	k5	977	GLN
10	k5	1044	ASN
10	k5	1065	HIS
10	k5	1151	GLN
2	A6	88	HIS
2	A6	145	GLN
3	B6	2	GLN
2	C6	88	HIS
3	D6	2	GLN
2	E6	15	GLN
2	E6	88	HIS
3	F6	2	GLN
2	G6	88	HIS
3	H6	2	GLN
2	I6	88	HIS
3	D1	2	GLN
8	O7	57	GLN

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Mol	Chain	Res	Type
8	O7	161	GLN
1	P7	11	ASN
8	Q7	41	GLN
8	Q7	57	GLN
1	R7	11	ASN
8	S7	10	ASN
8	S7	41	GLN
8	S7	60	GLN
1	B7	11	ASN
8	C7	57	GLN
1	D7	11	ASN
1	D7	117	ASN
8	E7	57	GLN
8	G7	161	GLN
1	H7	11	ASN
8	I7	57	GLN
1	J7	11	ASN
8	K7	57	GLN
1	L7	11	ASN
8	M7	41	GLN
8	M7	60	GLN
1	N7	11	ASN
1	N7	110	ASN
8	g7	57	GLN
1	h7	11	ASN
1	j7	11	ASN
1	j7	110	ASN
8	k7	41	GLN
1	T7	11	ASN
1	T7	110	ASN
8	U7	57	GLN
1	V7	11	ASN
8	W7	41	GLN
8	W7	57	GLN
1	X7	11	ASN
1	Z7	11	ASN
1	Z7	110	ASN
8	a7	57	GLN
1	b7	11	ASN
1	d7	11	ASN
1	d7	110	ASN
1	f7	11	ASN

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Mol	Chain	Res	Type
1	f7	110	ASN
2	E1	88	HIS
2	A8	88	HIS
2	A8	145	GLN
3	B8	2	GLN
2	C8	88	HIS
3	D8	2	GLN
2	E8	88	HIS
1	l7	11	ASN
8	m7	57	GLN
1	n7	11	ASN
8	o7	10	ASN
1	p7	11	ASN
1	p7	15	GLN
8	q7	41	GLN
1	r7	11	ASN
8	s7	57	GLN
8	s7	161	GLN
1	t7	10	ASN
1	t7	11	ASN
8	u7	10	ASN
1	v7	11	ASN
1	v7	15	GLN
9	z7	25	ASN
9	z7	42	GLN
9	z7	45	GLN
9	z7	61	GLN
9	w7	42	GLN
9	w7	45	GLN
9	w7	64	ASN
9	x7	24	GLN
9	x7	36	ASN
9	x7	41	GLN
9	x7	45	GLN
9	x7	64	ASN
9	y7	24	GLN
9	y7	36	ASN
9	y7	45	GLN
2	T8	88	HIS
3	U8	2	GLN
2	V8	88	HIS
3	W8	2	GLN

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Mol	Chain	Res	Type
2	X8	57	GLN
2	X8	88	HIS
3	F8	2	GLN
2	G8	15	GLN
2	G8	88	HIS
3	H8	2	GLN
2	I8	88	HIS
3	J8	2	GLN
2	K8	88	HIS
3	L8	2	GLN
4	M8	28	HIS
4	M8	40	GLN
4	M8	103	GLN
4	M8	172	HIS
4	M8	211	GLN
4	M8	227	GLN
4	M8	230	GLN
4	M8	251	ASN
4	M8	257	GLN
2	N8	88	HIS
2	N8	145	GLN
3	O8	2	GLN
2	P8	88	HIS
3	Q8	2	GLN
2	R8	88	HIS
3	S8	2	GLN
3	F1	2	GLN
3	L9	2	GLN
4	M9	27	HIS
4	M9	40	GLN
4	M9	41	ASN
4	M9	163	ASN
4	M9	172	HIS
4	M9	216	ASN
4	M9	227	GLN
4	M9	251	ASN
4	M9	255	GLN
4	M9	257	GLN
5	N9	29	HIS
5	N9	37	HIS
5	N9	41	GLN
2	O9	88	HIS

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Mol	Chain	Res	Type
2	O9	145	GLN
3	P9	2	GLN
3	P9	111	ASN
2	Q9	68	GLN
2	Q9	88	HIS
3	Y8	2	GLN
5	Z8	8	ASN
5	Z8	37	HIS
2	A9	88	HIS
2	A9	145	GLN
3	B9	2	GLN
2	C9	88	HIS
3	D9	2	GLN
2	E9	88	HIS
3	F9	2	GLN
3	F9	47	ASN
2	G9	88	HIS
3	H9	2	GLN
2	I9	15	GLN
2	I9	25	GLN
2	I9	88	HIS
3	J9	2	GLN
2	K9	88	HIS
3	R9	2	GLN
3	R9	111	ASN
2	S9	88	HIS
3	T9	2	GLN
2	U9	88	HIS
3	V9	2	GLN
2	W9	88	HIS
3	X9	2	GLN
2	Y9	88	HIS
3	Z9	2	GLN
3	Z9	111	ASN
2	G1	88	HIS
11	a9	82	GLN
11	a9	140	GLN
11	a9	176	ASN
11	a9	200	HIS
11	a9	266	ASN
11	a9	268	ASN
11	a9	328	GLN

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Mol	Chain	Res	Type
11	a9	329	ASN
11	a9	348	GLN
11	a9	363	GLN
11	a9	382	ASN
11	a9	389	GLN
11	a9	448	ASN
11	a9	449	ASN
11	a9	473	HIS
11	a9	523	GLN
11	a9	639	GLN
11	a9	662	GLN
11	a9	677	GLN
11	a9	780	GLN
11	aA	140	GLN
11	aA	176	ASN
11	aA	200	HIS
11	aA	229	ASN
11	aA	266	ASN
11	aA	268	ASN
11	aA	302	ASN
11	aA	328	GLN
11	aA	329	ASN
11	aA	348	GLN
11	aA	363	GLN
11	aA	382	ASN
11	aA	389	GLN
11	aA	448	ASN
11	aA	449	ASN
11	aA	467	GLN
11	aA	473	HIS
11	aA	478	HIS
11	aA	523	GLN
11	aA	567	GLN
11	aA	639	GLN
11	aA	662	GLN
11	aA	677	GLN
11	aA	684	ASN
11	aA	766	ASN
11	aA	780	GLN
11	aA	803	ASN
3	H1	2	GLN
3	H1	111	ASN

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Mol	Chain	Res	Type
2	I1	88	HIS
3	J1	2	GLN
3	J1	111	ASN
2	K1	88	HIS
3	L1	2	GLN
3	L1	111	ASN
4	M1	40	GLN
4	M1	41	ASN
4	M1	61	ASN
4	M1	163	ASN
4	M1	172	HIS
4	M1	181	GLN
4	M1	216	ASN
4	M1	227	GLN
4	M1	251	ASN
4	M1	257	GLN
5	N1	29	HIS
5	N1	37	HIS
5	N1	41	GLN
3	T1	2	GLN
2	U1	88	HIS
3	V1	2	GLN
3	V1	111	ASN
2	W1	88	HIS
3	X1	2	GLN
3	X1	111	ASN
2	Y1	88	HIS
3	Z1	2	GLN
2	A2	88	HIS
2	A2	145	GLN
3	B2	2	GLN
2	C2	68	GLN
2	C2	88	HIS
3	D2	2	GLN
2	E2	15	GLN
2	E2	88	HIS
3	F2	2	GLN
3	F2	72	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

42 non-standard protein/DNA/RNA residues are modelled in this entry.

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	$\#\|Z\| > 2$
1	MEN	L5	71	1	7,8,9	0.34	0	4,9,11	0.42	0
1	MEN	D5	71	1	7,8,9	0.38	0	4,9,11	0.42	0
1	MEN	P7	71	1	7,8,9	0.37	0	4,9,11	0.39	0
1	MEN	D7	71	1	7,8,9	0.37	0	4,9,11	0.44	0
1	MEN	T7	71	1	7,8,9	0.38	0	4,9,11	0.37	0
1	MEN	X5	71	1	7,8,9	0.37	0	4,9,11	0.35	0
1	MEN	f5	71	1	7,8,9	0.34	0	4,9,11	0.37	0
1	MEN	J5	71	1	7,8,9	0.39	0	4,9,11	0.42	0
1	MEN	J7	71	1	7,8,9	0.38	0	4,9,11	0.44	0
1	MEN	L7	71	1	7,8,9	0.37	0	4,9,11	0.39	0
1	MEN	h7	71	1	7,8,9	0.34	0	4,9,11	0.37	0
1	MEN	V7	71	1	7,8,9	0.35	0	4,9,11	0.39	0
1	MEN	B7	71	1	7,8,9	0.37	0	4,9,11	0.38	0
1	MEN	p7	71	1	7,8,9	0.36	0	4,9,11	0.39	0
1	MEN	X7	71	1	7,8,9	0.38	0	4,9,11	0.43	0
1	MEN	F5	71	1	7,8,9	0.36	0	4,9,11	0.42	0
1	MEN	d7	71	1	7,8,9	0.37	0	4,9,11	0.38	0
1	MEN	V5	71	1	7,8,9	0.38	0	4,9,11	0.40	0
1	MEN	v7	71	1	7,8,9	0.35	0	4,9,11	0.40	0
1	MEN	P5	71	1	7,8,9	0.37	0	4,9,11	0.41	0
1	MEN	R5	71	1	7,8,9	0.37	0	4,9,11	0.36	0
1	MEN	l7	71	1	7,8,9	0.37	0	4,9,11	0.37	0
1	MEN	j7	71	1	7,8,9	0.36	0	4,9,11	0.38	0
1	MEN	d5	71	1	7,8,9	0.36	0	4,9,11	0.33	0
1	MEN	Z	71	1	7,8,9	0.36	0	4,9,11	0.31	0
1	MEN	Z5	71	1	7,8,9	0.36	0	4,9,11	0.32	0
1	MEN	R7	71	1	7,8,9	0.37	0	4,9,11	0.36	0
1	MEN	H7	71	1	7,8,9	0.38	0	4,9,11	0.38	0
1	MEN	Z7	71	1	7,8,9	0.37	0	4,9,11	0.39	0
1	MEN	r7	71	1	7,8,9	0.37	0	4,9,11	0.41	0
1	MEN	H5	71	1	7,8,9	0.38	0	4,9,11	0.37	0
1	MEN	N5	71	1	7,8,9	0.39	0	4,9,11	0.39	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MEN	T5	71	1	7,8,9	0.39	0	4,9,11	0.40	0
1	MEN	B5	71	1	7,8,9	0.37	0	4,9,11	0.39	0
1	MEN	b5	71	1	7,8,9	0.33	0	4,9,11	0.37	0
1	MEN	F7	71	1	7,8,9	0.35	0	4,9,11	0.39	0
1	MEN	b7	71	1	7,8,9	0.34	0	4,9,11	0.37	0
1	MEN	N7	71	1	7,8,9	0.38	0	4,9,11	0.41	0
1	MEN	n7	71	1	7,8,9	0.38	0	4,9,11	0.38	0
1	MEN	f7	71	1	7,8,9	0.38	0	4,9,11	0.39	0
1	MEN	A	71	1	7,8,9	0.37	0	4,9,11	0.34	0
1	MEN	t7	71	1	7,8,9	0.37	0	4,9,11	0.38	0

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
1	MEN	L5	71	1	-	0/7/8/10	-
1	MEN	D5	71	1	-	0/7/8/10	-
1	MEN	P7	71	1	-	0/7/8/10	-
1	MEN	D7	71	1	-	0/7/8/10	-
1	MEN	T7	71	1	-	0/7/8/10	-
1	MEN	X5	71	1	-	0/7/8/10	-
1	MEN	f5	71	1	-	0/7/8/10	-
1	MEN	J5	71	1	-	0/7/8/10	-
1	MEN	J7	71	1	-	0/7/8/10	-
1	MEN	L7	71	1	-	0/7/8/10	-
1	MEN	h7	71	1	-	0/7/8/10	-
1	MEN	V7	71	1	-	0/7/8/10	-
1	MEN	B7	71	1	-	0/7/8/10	-
1	MEN	p7	71	1	-	0/7/8/10	-
1	MEN	X7	71	1	-	0/7/8/10	-
1	MEN	F5	71	1	-	0/7/8/10	-
1	MEN	d7	71	1	-	0/7/8/10	-
1	MEN	V5	71	1	-	0/7/8/10	-
1	MEN	v7	71	1	-	0/7/8/10	-
1	MEN	P5	71	1	-	0/7/8/10	-
1	MEN	R5	71	1	-	0/7/8/10	-
1	MEN	l7	71	1	-	0/7/8/10	-
1	MEN	j7	71	1	-	0/7/8/10	-
1	MEN	d5	71	1	-	0/7/8/10	-
1	MEN	Z	71	1	-	0/7/8/10	-
1	MEN	Z5	71	1	-	0/7/8/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MEN	R7	71	1	-	0/7/8/10	-
1	MEN	H7	71	1	-	0/7/8/10	-
1	MEN	Z7	71	1	-	0/7/8/10	-
1	MEN	r7	71	1	-	0/7/8/10	-
1	MEN	H5	71	1	-	0/7/8/10	-
1	MEN	N5	71	1	-	0/7/8/10	-
1	MEN	T5	71	1	-	0/7/8/10	-
1	MEN	B5	71	1	-	0/7/8/10	-
1	MEN	b5	71	1	-	0/7/8/10	-
1	MEN	F7	71	1	-	0/7/8/10	-
1	MEN	b7	71	1	-	0/7/8/10	-
1	MEN	N7	71	1	-	0/7/8/10	-
1	MEN	n7	71	1	-	0/7/8/10	-
1	MEN	f7	71	1	-	0/7/8/10	-
1	MEN	A	71	1	-	0/7/8/10	-
1	MEN	t7	71	1	-	0/7/8/10	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

42 monomers are involved in 62 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	L5	71	MEN	1	0
1	D5	71	MEN	9	0
1	P7	71	MEN	1	0
1	D7	71	MEN	1	0
1	T7	71	MEN	1	0
1	X5	71	MEN	1	0
1	f5	71	MEN	1	0
1	J5	71	MEN	8	0
1	J7	71	MEN	1	0
1	L7	71	MEN	1	0
1	h7	71	MEN	1	0
1	V7	71	MEN	1	0
1	B7	71	MEN	1	0
1	p7	71	MEN	1	0
1	X7	71	MEN	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	F5	71	MEN	1	0
1	d7	71	MEN	1	0
1	V5	71	MEN	1	0
1	v7	71	MEN	6	0
1	P5	71	MEN	1	0
1	R5	71	MEN	1	0
1	l7	71	MEN	1	0
1	j7	71	MEN	1	0
1	d5	71	MEN	1	0
1	Z	71	MEN	1	0
1	Z5	71	MEN	1	0
1	R7	71	MEN	1	0
1	H7	71	MEN	1	0
1	Z7	71	MEN	1	0
1	r7	71	MEN	1	0
1	H5	71	MEN	1	0
1	N5	71	MEN	1	0
1	T5	71	MEN	1	0
1	B5	71	MEN	1	0
1	b5	71	MEN	1	0
1	F7	71	MEN	1	0
1	b7	71	MEN	1	0
1	N7	71	MEN	1	0
1	n7	71	MEN	1	0
1	f7	71	MEN	1	0
1	A	71	MEN	1	0
1	t7	71	MEN	1	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

336 ligands are modelled in this entry.

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	$\#\|Z\| > 2$
12	CYC	W3	201	-	46,46,46	2.27	17 (36%)	63,67,67	2.77	30 (47%)
12	CYC	Y8	201	-	46,46,46	2.22	13 (28%)	63,67,67	2.92	25 (39%)
12	CYC	Q1	201	-	46,46,46	2.27	17 (36%)	63,67,67	2.78	28 (44%)
12	CYC	A5	201	-	46,46,46	2.30	14 (30%)	63,67,67	2.92	23 (36%)
12	CYC	U8	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.84	27 (42%)
12	CYC	X9	202	-	46,46,46	2.21	12 (26%)	63,67,67	2.90	25 (39%)
12	CYC	J6	201	-	46,46,46	2.21	14 (30%)	63,67,67	2.90	25 (39%)
12	CYC	D1	202	-	46,46,46	2.31	18 (39%)	63,67,67	2.83	27 (42%)
12	CYC	S9	201	-	46,46,46	2.27	17 (36%)	63,67,67	2.80	29 (46%)
12	CYC	Y9	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.81	29 (46%)
12	CYC	U7	201	-	46,46,46	2.31	14 (30%)	63,67,67	2.94	24 (38%)
12	CYC	Q4	201	-	46,46,46	2.21	13 (28%)	63,67,67	2.91	25 (39%)
12	CYC	O7	201	-	46,46,46	2.32	14 (30%)	63,67,67	2.93	24 (38%)
12	CYC	ZA	202	-	46,46,46	2.30	17 (36%)	63,67,67	2.85	26 (41%)
12	CYC	QA	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.79	28 (44%)
12	CYC	H2	201	-	46,46,46	2.29	18 (39%)	63,67,67	2.81	26 (41%)
12	CYC	h7	201	-	46,46,46	2.41	18 (39%)	63,67,67	2.69	26 (41%)
12	CYC	Z1	201	-	46,46,46	2.22	14 (30%)	63,67,67	2.89	25 (39%)
12	CYC	WA	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.77	29 (46%)
12	CYC	H6	201	-	46,46,46	2.28	18 (39%)	63,67,67	2.82	25 (39%)
12	CYC	p7	201	-	46,46,46	2.40	16 (34%)	63,67,67	2.72	26 (41%)
12	CYC	e5	201	-	46,46,46	2.33	14 (30%)	63,67,67	2.93	24 (38%)
12	CYC	L6	202	-	46,46,46	2.19	14 (30%)	63,67,67	2.89	24 (38%)
12	CYC	k5	1202	-	46,46,46	2.41	17 (36%)	63,67,67	2.71	26 (41%)
12	CYC	G3	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.78	29 (46%)
12	CYC	k7	201	-	46,46,46	2.30	14 (30%)	63,67,67	2.92	24 (38%)
12	CYC	H9	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.88	25 (39%)
12	CYC	r7	201	-	46,46,46	2.40	16 (34%)	63,67,67	2.70	25 (39%)
12	CYC	VA	201	-	46,46,46	2.29	18 (39%)	63,67,67	2.86	26 (41%)
12	CYC	k5	1204	-	46,46,46	2.40	17 (36%)	63,67,67	2.69	25 (39%)
12	CYC	J1	201	-	46,46,46	2.19	14 (30%)	63,67,67	2.87	25 (39%)
12	CYC	J9	202	-	46,46,46	2.29	17 (36%)	63,67,67	2.82	25 (39%)
12	CYC	G2	201	-	46,46,46	2.29	16 (34%)	63,67,67	2.80	29 (46%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
12	CYC	D6	202	-	46,46,46	2.19	13 (28%)	63,67,67	2.90	24 (38%)
12	CYC	N5	201	-	46,46,46	2.40	17 (36%)	63,67,67	2.71	25 (39%)
12	CYC	N6	101	-	46,46,46	2.29	18 (39%)	63,67,67	2.83	25 (39%)
12	CYC	L3	202	-	46,46,46	2.29	18 (39%)	63,67,67	2.82	26 (41%)
12	CYC	J4	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.83	25 (39%)
12	CYC	O4	202	-	46,46,46	2.20	13 (28%)	63,67,67	2.92	24 (38%)
12	CYC	Z8	301	-	46,46,46	2.30	17 (36%)	63,67,67	2.82	26 (41%)
12	CYC	C4	201	-	46,46,46	2.27	16 (34%)	63,67,67	2.80	28 (44%)
12	CYC	G7	201	-	46,46,46	2.30	15 (32%)	63,67,67	2.91	23 (36%)
12	CYC	J3	201	-	46,46,46	2.19	14 (30%)	63,67,67	2.87	25 (39%)
12	CYC	JA	201	-	46,46,46	2.21	14 (30%)	63,67,67	2.91	25 (39%)
12	CYC	G9	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.79	28 (44%)
12	CYC	V9	201	-	46,46,46	2.29	18 (39%)	63,67,67	2.85	26 (41%)
12	CYC	I6	201	-	46,46,46	2.29	18 (39%)	63,67,67	2.79	29 (46%)
12	CYC	G5	201	-	46,46,46	2.31	14 (30%)	63,67,67	2.93	23 (36%)
12	CYC	O9	201	-	46,46,46	2.29	16 (34%)	63,67,67	2.79	29 (46%)
12	CYC	M5	201	-	46,46,46	2.30	14 (30%)	63,67,67	2.90	24 (38%)
12	CYC	T9	302	-	46,46,46	2.21	14 (30%)	63,67,67	2.89	25 (39%)
12	CYC	V1	201	-	46,46,46	2.29	18 (39%)	63,67,67	2.83	26 (41%)
12	CYC	A9	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.78	30 (47%)
12	CYC	E4	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.81	29 (46%)
12	CYC	H4	202	-	46,46,46	2.21	13 (28%)	63,67,67	2.89	25 (39%)
12	CYC	F9	303	-	46,46,46	2.19	12 (26%)	63,67,67	2.89	25 (39%)
12	CYC	I1	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.80	28 (44%)
12	CYC	T8	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.81	29 (46%)
12	CYC	G1	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.79	29 (46%)
12	CYC	K2	201	-	46,46,46	2.28	15 (32%)	63,67,67	2.81	30 (47%)
12	CYC	R3	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.82	27 (42%)
12	CYC	TA	302	-	46,46,46	2.21	14 (30%)	63,67,67	2.89	25 (39%)
12	CYC	J6	202	-	46,46,46	2.30	18 (39%)	63,67,67	2.83	25 (39%)
12	CYC	E1	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.78	28 (44%)
12	CYC	F3	202	-	46,46,46	2.20	14 (30%)	63,67,67	2.87	25 (39%)
12	CYC	B7	201	-	46,46,46	2.40	17 (36%)	63,67,67	2.71	25 (39%)
12	CYC	H3	202	-	46,46,46	2.29	16 (34%)	63,67,67	2.82	25 (39%)
12	CYC	L6	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.83	25 (39%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
12	CYC	U4	202	-	46,46,46	2.20	13 (28%)	63,67,67	2.88	25 (39%)
12	CYC	D5	201	-	46,46,46	2.41	16 (34%)	63,67,67	2.71	25 (39%)
12	CYC	B3	201	-	46,46,46	2.21	13 (28%)	63,67,67	2.91	25 (39%)
12	CYC	G6	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.79	28 (44%)
12	CYC	C8	201	-	46,46,46	2.27	16 (34%)	63,67,67	2.80	28 (44%)
12	CYC	f7	201	-	46,46,46	2.41	17 (36%)	63,67,67	2.71	26 (41%)
12	CYC	d5	201	-	46,46,46	2.40	17 (36%)	63,67,67	2.71	25 (39%)
12	CYC	a5	201	-	46,46,46	2.32	14 (30%)	63,67,67	2.93	24 (38%)
12	CYC	u7	201	-	46,46,46	2.32	14 (30%)	63,67,67	2.93	23 (36%)
12	CYC	L8	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.90	24 (38%)
12	CYC	D8	202	-	46,46,46	2.31	18 (39%)	63,67,67	2.81	27 (42%)
12	CYC	a7	201	-	46,46,46	2.33	14 (30%)	63,67,67	2.95	23 (36%)
12	CYC	b5	201	-	46,46,46	2.39	16 (34%)	63,67,67	2.71	26 (41%)
12	CYC	P1	202	-	46,46,46	2.21	13 (28%)	63,67,67	2.91	25 (39%)
12	CYC	K5	201	-	46,46,46	2.32	14 (30%)	63,67,67	2.95	24 (38%)
12	CYC	D9	202	-	46,46,46	2.21	14 (30%)	63,67,67	2.87	25 (39%)
12	CYC	P1	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.81	26 (41%)
12	CYC	H9	202	-	46,46,46	2.29	18 (39%)	63,67,67	2.81	25 (39%)
12	CYC	B2	201	-	46,46,46	2.21	14 (30%)	63,67,67	2.90	24 (38%)
12	CYC	D6	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.81	25 (39%)
12	CYC	M7	201	-	46,46,46	2.31	14 (30%)	63,67,67	2.92	23 (36%)
12	CYC	H6	202	-	46,46,46	2.20	13 (28%)	63,67,67	2.88	25 (39%)
12	CYC	T3	301	-	46,46,46	2.29	18 (39%)	63,67,67	2.82	25 (39%)
12	CYC	Z	201	-	46,46,46	2.39	16 (34%)	63,67,67	2.71	26 (41%)
12	CYC	P4	201	-	46,46,46	2.27	17 (36%)	63,67,67	2.78	28 (44%)
12	CYC	BA	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.82	26 (41%)
12	CYC	T1	301	-	46,46,46	2.29	18 (39%)	63,67,67	2.82	25 (39%)
12	CYC	j7	201	-	46,46,46	2.40	17 (36%)	63,67,67	2.72	26 (41%)
12	CYC	K9	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.81	29 (46%)
12	CYC	S7	201	-	46,46,46	2.30	14 (30%)	63,67,67	2.89	23 (36%)
12	CYC	B5	201	-	46,46,46	2.42	17 (36%)	63,67,67	2.71	25 (39%)
12	CYC	g7	201	-	46,46,46	2.33	14 (30%)	63,67,67	2.96	24 (38%)
12	CYC	X4	201	-	46,46,46	2.28	15 (32%)	63,67,67	2.79	29 (46%)
12	CYC	J2	201	-	46,46,46	2.21	14 (30%)	63,67,67	2.90	25 (39%)
12	CYC	B1	202	-	46,46,46	2.30	18 (39%)	63,67,67	2.82	27 (42%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
12	CYC	R4	201	-	46,46,46	2.28	15 (32%)	63,67,67	2.82	29 (46%)
12	CYC	O5	201	-	46,46,46	2.31	14 (30%)	63,67,67	2.94	23 (36%)
12	CYC	M8	302	-	46,46,46	2.29	18 (39%)	63,67,67	2.84	25 (39%)
12	CYC	XA	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.85	25 (39%)
12	CYC	K4	201	-	46,46,46	2.29	16 (34%)	63,67,67	2.80	29 (46%)
12	CYC	D9	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.82	26 (41%)
12	CYC	V9	202	-	46,46,46	2.19	14 (30%)	63,67,67	2.91	25 (39%)
12	CYC	a9	901	-	46,46,46	2.29	17 (36%)	63,67,67	2.82	25 (39%)
12	CYC	B4	202	-	46,46,46	2.29	16 (34%)	63,67,67	2.82	27 (42%)
12	CYC	Q3	201	-	46,46,46	2.27	17 (36%)	63,67,67	2.78	28 (44%)
12	CYC	D1	201	-	46,46,46	2.19	13 (28%)	63,67,67	2.89	25 (39%)
12	CYC	T4	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.81	29 (46%)
12	CYC	F2	202	-	46,46,46	2.18	14 (30%)	63,67,67	2.87	24 (38%)
12	CYC	F2	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.83	26 (41%)
12	CYC	X5	201	-	46,46,46	2.41	18 (39%)	63,67,67	2.72	26 (41%)
12	CYC	RA	202	-	46,46,46	2.20	13 (28%)	63,67,67	2.88	25 (39%)
12	CYC	S1	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.79	29 (46%)
12	CYC	I2	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.79	29 (46%)
12	CYC	j5	1201	-	46,46,46	2.59	18 (39%)	63,67,67	2.87	29 (46%)
12	CYC	O8	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.81	27 (42%)
12	CYC	Y4	201	-	46,46,46	2.22	13 (28%)	63,67,67	2.92	25 (39%)
12	CYC	R8	201	-	46,46,46	2.28	15 (32%)	63,67,67	2.81	29 (46%)
12	CYC	V1	202	-	46,46,46	2.20	13 (28%)	63,67,67	2.89	25 (39%)
12	CYC	L9	202	-	46,46,46	2.31	18 (39%)	63,67,67	2.84	25 (39%)
12	CYC	J5	201	-	46,46,46	2.41	16 (34%)	63,67,67	2.72	25 (39%)
12	CYC	B8	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.93	25 (39%)
12	CYC	C9	201	-	46,46,46	2.27	15 (32%)	63,67,67	2.80	30 (47%)
12	CYC	C5	201	-	46,46,46	2.32	14 (30%)	63,67,67	2.92	23 (36%)
12	CYC	GA	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.79	29 (46%)
12	CYC	W8	202	-	46,46,46	2.22	14 (30%)	63,67,67	2.91	25 (39%)
12	CYC	H1	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.82	26 (41%)
12	CYC	J8	202	-	46,46,46	2.23	13 (28%)	63,67,67	2.91	25 (39%)
12	CYC	C7	201	-	46,46,46	2.32	15 (32%)	63,67,67	2.93	24 (38%)
12	CYC	J8	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.83	25 (39%)
12	CYC	S5	201	-	46,46,46	2.31	14 (30%)	63,67,67	2.90	24 (38%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
12	CYC	TA	301	-	46,46,46	2.28	18 (39%)	63,67,67	2.81	25 (39%)
12	CYC	V8	201	-	46,46,46	2.27	16 (34%)	63,67,67	2.78	28 (44%)
12	CYC	B3	202	-	46,46,46	2.30	18 (39%)	63,67,67	2.82	27 (42%)
12	CYC	Z4	301	-	46,46,46	2.30	18 (39%)	63,67,67	2.82	26 (41%)
12	CYC	Y5	201	-	46,46,46	2.32	14 (30%)	63,67,67	2.95	23 (36%)
12	CYC	DA	202	-	46,46,46	2.21	14 (30%)	63,67,67	2.87	25 (39%)
12	CYC	N8	201	-	46,46,46	2.29	15 (32%)	63,67,67	2.80	28 (44%)
12	CYC	R9	202	-	46,46,46	2.20	13 (28%)	63,67,67	2.88	25 (39%)
12	CYC	o7	201	-	46,46,46	2.33	14 (30%)	63,67,67	2.93	23 (36%)
12	CYC	F7	201	-	46,46,46	2.41	17 (36%)	63,67,67	2.72	26 (41%)
12	CYC	E8	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.81	29 (46%)
12	CYC	J3	202	-	46,46,46	2.30	18 (39%)	63,67,67	2.83	26 (41%)
12	CYC	Z3	201	-	46,46,46	2.30	17 (36%)	63,67,67	2.84	26 (41%)
12	CYC	F4	201	-	46,46,46	2.20	14 (30%)	63,67,67	2.89	25 (39%)
12	CYC	HA	202	-	46,46,46	2.29	18 (39%)	63,67,67	2.81	25 (39%)
12	CYC	O1	201	-	46,46,46	2.31	17 (36%)	63,67,67	2.81	29 (46%)
12	CYC	V7	201	-	46,46,46	2.40	16 (34%)	63,67,67	2.71	25 (39%)
12	CYC	I3	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.80	28 (44%)
12	CYC	Y1	201	-	46,46,46	2.27	16 (34%)	63,67,67	2.79	29 (46%)
12	CYC	Z3	202	-	46,46,46	2.22	14 (30%)	63,67,67	2.89	25 (39%)
12	CYC	F4	202	-	46,46,46	2.29	19 (41%)	63,67,67	2.84	26 (41%)
12	CYC	A8	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.79	29 (46%)
12	CYC	H3	201	-	46,46,46	2.20	14 (30%)	63,67,67	2.89	25 (39%)
12	CYC	X3	202	-	46,46,46	2.20	13 (28%)	63,67,67	2.88	25 (39%)
12	CYC	j5	1202	-	46,46,46	2.40	16 (34%)	63,67,67	2.69	25 (39%)
12	CYC	T3	302	-	46,46,46	2.20	14 (30%)	63,67,67	2.90	25 (39%)
12	CYC	A1	201	-	46,46,46	2.29	16 (34%)	63,67,67	2.81	29 (46%)
12	CYC	L1	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.90	25 (39%)
12	CYC	m7	201	-	46,46,46	2.31	14 (30%)	63,67,67	2.92	23 (36%)
12	CYC	W7	201	-	46,46,46	2.32	14 (30%)	63,67,67	2.94	24 (38%)
12	CYC	ZA	201	-	46,46,46	2.20	14 (30%)	63,67,67	2.88	25 (39%)
12	CYC	C3	201	-	46,46,46	2.27	16 (34%)	63,67,67	2.79	29 (46%)
12	CYC	P9	202	-	46,46,46	2.20	13 (28%)	63,67,67	2.92	25 (39%)
12	CYC	O8	202	-	46,46,46	2.20	13 (28%)	63,67,67	2.92	24 (38%)
12	CYC	E7	201	-	46,46,46	2.33	14 (30%)	63,67,67	2.94	23 (36%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
12	CYC	AA	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.78	30 (47%)
12	CYC	L5	201	-	46,46,46	2.41	17 (36%)	63,67,67	2.72	26 (41%)
12	CYC	q7	201	-	46,46,46	2.30	14 (30%)	63,67,67	2.92	23 (36%)
12	CYC	VA	202	-	46,46,46	2.20	14 (30%)	63,67,67	2.91	25 (39%)
12	CYC	R5	201	-	46,46,46	2.40	18 (39%)	63,67,67	2.71	26 (41%)
12	CYC	XA	202	-	46,46,46	2.21	12 (26%)	63,67,67	2.90	25 (39%)
12	CYC	K6	201	-	46,46,46	2.28	15 (32%)	63,67,67	2.81	30 (47%)
12	CYC	T5	201	-	46,46,46	2.41	17 (36%)	63,67,67	2.72	25 (39%)
12	CYC	X1	202	-	46,46,46	2.19	13 (28%)	63,67,67	2.88	25 (39%)
12	CYC	D7	201	-	46,46,46	2.41	16 (34%)	63,67,67	2.70	25 (39%)
12	CYC	K7	201	-	46,46,46	2.33	14 (30%)	63,67,67	2.94	24 (38%)
12	CYC	A3	201	-	46,46,46	2.29	16 (34%)	63,67,67	2.81	29 (46%)
12	CYC	G8	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.80	29 (46%)
12	CYC	H8	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.83	26 (41%)
12	CYC	U4	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.84	27 (42%)
12	CYC	IA	201	-	46,46,46	2.26	15 (32%)	63,67,67	2.79	29 (46%)
12	CYC	JA	202	-	46,46,46	2.29	17 (36%)	63,67,67	2.82	25 (39%)
12	CYC	i7	201	-	46,46,46	2.32	15 (32%)	63,67,67	2.96	24 (38%)
12	CYC	H2	202	-	46,46,46	2.19	13 (28%)	63,67,67	2.88	25 (39%)
12	CYC	F8	202	-	46,46,46	2.29	19 (41%)	63,67,67	2.84	26 (41%)
12	CYC	W1	201	-	46,46,46	2.27	17 (36%)	63,67,67	2.78	29 (46%)
12	CYC	F8	201	-	46,46,46	2.20	14 (30%)	63,67,67	2.89	25 (39%)
12	CYC	N2	101	-	46,46,46	2.29	18 (39%)	63,67,67	2.84	25 (39%)
12	CYC	I8	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.79	29 (46%)
12	CYC	D4	202	-	46,46,46	2.31	18 (39%)	63,67,67	2.81	27 (42%)
12	CYC	A4	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.79	29 (46%)
12	CYC	c5	201	-	46,46,46	2.32	15 (32%)	63,67,67	2.94	23 (36%)
12	CYC	LA	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.89	25 (39%)
12	CYC	SA	201	-	46,46,46	2.27	17 (36%)	63,67,67	2.80	29 (46%)
12	CYC	H5	201	-	46,46,46	2.42	17 (36%)	63,67,67	2.71	25 (39%)
12	CYC	W8	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.81	26 (41%)
12	CYC	B6	201	-	46,46,46	2.21	14 (30%)	63,67,67	2.90	24 (38%)
12	CYC	s7	201	-	46,46,46	2.30	14 (30%)	63,67,67	2.91	23 (36%)
12	CYC	X1	201	-	46,46,46	2.30	17 (36%)	63,67,67	2.83	26 (41%)
12	CYC	L3	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.90	25 (39%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
12	CYC	DA	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.83	27 (42%)
12	CYC	f5	201	-	46,46,46	2.40	17 (36%)	63,67,67	2.71	26 (41%)
12	CYC	D3	202	-	46,46,46	2.31	18 (39%)	63,67,67	2.82	27 (42%)
12	CYC	X8	201	-	46,46,46	2.28	15 (32%)	63,67,67	2.80	29 (46%)
12	CYC	K1	201	-	46,46,46	2.27	15 (32%)	63,67,67	2.80	29 (46%)
12	CYC	B9	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.82	26 (41%)
12	CYC	F5	201	-	46,46,46	2.41	16 (34%)	63,67,67	2.72	26 (41%)
12	CYC	E6	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.81	30 (47%)
12	CYC	c7	201	-	46,46,46	2.32	14 (30%)	63,67,67	2.94	24 (38%)
12	CYC	U5	201	-	46,46,46	2.32	14 (30%)	63,67,67	2.95	24 (38%)
12	CYC	R7	201	-	46,46,46	2.40	17 (36%)	63,67,67	2.72	26 (41%)
12	CYC	Q5	201	-	46,46,46	2.33	14 (30%)	63,67,67	2.93	23 (36%)
12	CYC	P9	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.85	26 (41%)
12	CYC	F9	301	-	46,46,46	2.28	18 (39%)	63,67,67	2.82	27 (42%)
12	CYC	R3	202	-	46,46,46	2.19	13 (28%)	63,67,67	2.89	25 (39%)
12	CYC	T9	301	-	46,46,46	2.28	18 (39%)	63,67,67	2.81	25 (39%)
12	CYC	W4	202	-	46,46,46	2.22	14 (30%)	63,67,67	2.91	25 (39%)
12	CYC	W4	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.81	26 (41%)
12	CYC	H4	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.83	26 (41%)
12	CYC	F1	202	-	46,46,46	2.20	14 (30%)	63,67,67	2.87	25 (39%)
12	CYC	F6	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.83	27 (42%)
12	CYC	X7	201	-	46,46,46	2.40	17 (36%)	63,67,67	2.71	26 (41%)
12	CYC	F1	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.82	26 (41%)
12	CYC	L4	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.89	24 (38%)
12	CYC	U8	202	-	46,46,46	2.20	13 (28%)	63,67,67	2.88	25 (39%)
12	CYC	Z9	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.88	25 (39%)
12	CYC	YA	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.81	29 (46%)
12	CYC	PA	202	-	46,46,46	2.20	13 (28%)	63,67,67	2.91	25 (39%)
12	CYC	J9	201	-	46,46,46	2.21	14 (30%)	63,67,67	2.91	25 (39%)
12	CYC	U9	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.79	29 (46%)
12	CYC	D4	201	-	46,46,46	2.20	14 (30%)	63,67,67	2.90	25 (39%)
12	CYC	RA	201	-	46,46,46	2.31	18 (39%)	63,67,67	2.81	25 (39%)
12	CYC	K3	201	-	46,46,46	2.28	15 (32%)	63,67,67	2.80	29 (46%)
12	CYC	L2	202	-	46,46,46	2.19	14 (30%)	63,67,67	2.88	25 (39%)
12	CYC	U1	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.78	29 (46%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
12	CYC	V5	201	-	46,46,46	2.40	16 (34%)	63,67,67	2.71	26 (41%)
12	CYC	aA	902	-	46,46,46	2.29	18 (39%)	63,67,67	2.82	26 (41%)
12	CYC	aA	901	-	46,46,46	2.30	18 (39%)	63,67,67	2.84	27 (42%)
12	CYC	S4	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.89	25 (39%)
12	CYC	D3	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.89	25 (39%)
12	CYC	E9	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.81	29 (46%)
12	CYC	Z9	202	-	46,46,46	2.30	17 (36%)	63,67,67	2.85	26 (41%)
12	CYC	PA	201	-	46,46,46	2.30	17 (36%)	63,67,67	2.85	26 (41%)
12	CYC	F3	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.82	26 (41%)
12	CYC	BA	202	-	46,46,46	2.22	14 (30%)	63,67,67	2.92	25 (39%)
12	CYC	KA	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.81	29 (46%)
12	CYC	P3	202	-	46,46,46	2.21	13 (28%)	63,67,67	2.91	25 (39%)
12	CYC	C1	201	-	46,46,46	2.27	16 (34%)	63,67,67	2.79	29 (46%)
12	CYC	P7	201	-	46,46,46	2.40	16 (34%)	63,67,67	2.71	26 (41%)
12	CYC	I7	201	-	46,46,46	2.32	15 (32%)	63,67,67	2.93	24 (38%)
12	CYC	X9	201	-	46,46,46	2.29	18 (39%)	63,67,67	2.85	25 (39%)
12	CYC	P3	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.81	26 (41%)
12	CYC	H8	202	-	46,46,46	2.21	13 (28%)	63,67,67	2.89	25 (39%)
12	CYC	D2	202	-	46,46,46	2.19	13 (28%)	63,67,67	2.90	24 (38%)
12	CYC	N7	201	-	46,46,46	2.40	16 (34%)	63,67,67	2.69	25 (39%)
12	CYC	Z1	202	-	46,46,46	2.30	17 (36%)	63,67,67	2.84	26 (41%)
12	CYC	K8	201	-	46,46,46	2.29	16 (34%)	63,67,67	2.81	29 (46%)
12	CYC	J2	202	-	46,46,46	2.30	18 (39%)	63,67,67	2.84	25 (39%)
12	CYC	Q9	201	-	46,46,46	2.27	17 (36%)	63,67,67	2.79	28 (44%)
12	CYC	k5	1203	-	46,46,46	2.40	16 (34%)	63,67,67	2.70	26 (41%)
12	CYC	LA	202	-	46,46,46	2.31	18 (39%)	63,67,67	2.85	26 (41%)
12	CYC	W5	201	-	46,46,46	2.33	14 (30%)	63,67,67	2.93	23 (36%)
12	CYC	V3	202	-	46,46,46	2.21	13 (28%)	63,67,67	2.89	25 (39%)
12	CYC	E5	201	-	46,46,46	2.33	14 (30%)	63,67,67	2.94	24 (38%)
12	CYC	J4	202	-	46,46,46	2.22	13 (28%)	63,67,67	2.91	25 (39%)
12	CYC	V3	201	-	46,46,46	2.29	18 (39%)	63,67,67	2.83	25 (39%)
12	CYC	B8	202	-	46,46,46	2.30	17 (36%)	63,67,67	2.81	26 (41%)
12	CYC	HA	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.88	25 (39%)
12	CYC	P5	201	-	46,46,46	2.40	16 (34%)	63,67,67	2.70	26 (41%)
12	CYC	D8	201	-	46,46,46	2.20	14 (30%)	63,67,67	2.90	25 (39%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
12	CYC	Z5	201	-	46,46,46	2.40	17 (36%)	63,67,67	2.70	25 (39%)
12	CYC	UA	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.79	29 (46%)
12	CYC	FA	301	-	46,46,46	2.28	18 (39%)	63,67,67	2.82	27 (42%)
12	CYC	E3	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.78	28 (44%)
12	CYC	X3	201	-	46,46,46	2.30	17 (36%)	63,67,67	2.83	26 (41%)
12	CYC	U3	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.78	28 (44%)
12	CYC	Q7	201	-	46,46,46	2.33	14 (30%)	63,67,67	2.95	24 (38%)
12	CYC	Q8	201	-	46,46,46	2.21	13 (28%)	63,67,67	2.90	25 (39%)
12	CYC	R1	202	-	46,46,46	2.19	13 (28%)	63,67,67	2.89	25 (39%)
12	CYC	EA	201	-	46,46,46	2.29	17 (36%)	63,67,67	2.81	29 (46%)
12	CYC	J7	201	-	46,46,46	2.41	16 (34%)	63,67,67	2.71	26 (41%)
12	CYC	T1	302	-	46,46,46	2.20	14 (30%)	63,67,67	2.90	25 (39%)
12	CYC	C6	201	-	46,46,46	2.29	16 (34%)	63,67,67	2.80	27 (42%)
12	CYC	F6	202	-	46,46,46	2.18	14 (30%)	63,67,67	2.87	25 (39%)
12	CYC	S8	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.89	25 (39%)
12	CYC	L4	202	-	46,46,46	2.28	17 (36%)	63,67,67	2.82	25 (39%)
12	CYC	A6	201	-	46,46,46	2.29	16 (34%)	63,67,67	2.80	29 (46%)
12	CYC	A	201	-	46,46,46	2.39	16 (34%)	63,67,67	2.71	26 (41%)
12	CYC	F9	302	-	46,46,46	2.20	13 (28%)	63,67,67	2.89	25 (39%)
12	CYC	B1	201	-	46,46,46	2.21	13 (28%)	63,67,67	2.91	25 (39%)
12	CYC	I4	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.79	29 (46%)
12	CYC	S4	202	-	46,46,46	2.30	18 (39%)	63,67,67	2.85	25 (39%)
12	CYC	E2	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.80	30 (47%)
12	CYC	T7	201	-	46,46,46	2.41	17 (36%)	63,67,67	2.71	26 (41%)
12	CYC	H7	201	-	46,46,46	2.41	17 (36%)	63,67,67	2.72	26 (41%)
12	CYC	B4	201	-	46,46,46	2.21	13 (28%)	63,67,67	2.93	25 (39%)
12	CYC	b7	201	-	46,46,46	2.41	18 (39%)	63,67,67	2.70	26 (41%)
12	CYC	V4	201	-	46,46,46	2.27	16 (34%)	63,67,67	2.78	28 (44%)
12	CYC	M8	301	-	46,46,46	2.28	18 (39%)	63,67,67	2.80	26 (41%)
12	CYC	O4	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.81	27 (42%)
12	CYC	OA	201	-	46,46,46	2.29	16 (34%)	63,67,67	2.79	29 (46%)
12	CYC	CA	201	-	46,46,46	2.27	15 (32%)	63,67,67	2.80	30 (47%)
12	CYC	C2	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.80	27 (42%)
12	CYC	R9	201	-	46,46,46	2.31	18 (39%)	63,67,67	2.81	25 (39%)
12	CYC	A7	201	-	46,46,46	2.31	15 (32%)	63,67,67	2.92	23 (36%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
12	CYC	Y7	201	-	46,46,46	2.31	14 (30%)	63,67,67	2.90	23 (36%)
12	CYC	d7	201	-	46,46,46	2.41	17 (36%)	63,67,67	2.72	26 (41%)
12	CYC	P8	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.78	28 (44%)
12	CYC	L2	201	-	46,46,46	2.29	18 (39%)	63,67,67	2.83	25 (39%)
12	CYC	G4	201	-	46,46,46	2.28	17 (36%)	63,67,67	2.80	29 (46%)
12	CYC	D2	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.82	25 (39%)
12	CYC	L9	201	-	46,46,46	2.20	13 (28%)	63,67,67	2.90	25 (39%)
12	CYC	H1	202	-	46,46,46	2.21	14 (30%)	63,67,67	2.89	25 (39%)
12	CYC	W9	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.77	29 (46%)
12	CYC	A2	201	-	46,46,46	2.29	16 (34%)	63,67,67	2.80	29 (46%)
12	CYC	k5	1201	-	46,46,46	2.59	18 (39%)	63,67,67	2.85	29 (46%)
12	CYC	M4	301	-	46,46,46	2.29	18 (39%)	63,67,67	2.81	26 (41%)
12	CYC	L7	201	-	46,46,46	2.41	17 (36%)	63,67,67	2.72	26 (41%)
12	CYC	N4	201	-	46,46,46	2.29	15 (32%)	63,67,67	2.80	28 (44%)
12	CYC	v7	201	-	46,46,46	2.39	16 (34%)	63,67,67	2.71	26 (41%)
12	CYC	B9	202	-	46,46,46	2.22	14 (30%)	63,67,67	2.92	25 (39%)
12	CYC	R1	201	-	46,46,46	2.30	18 (39%)	63,67,67	2.82	27 (42%)
12	CYC	I5	201	-	46,46,46	2.32	15 (32%)	63,67,67	2.92	23 (36%)
12	CYC	Y3	201	-	46,46,46	2.27	16 (34%)	63,67,67	2.79	29 (46%)
12	CYC	O3	201	-	46,46,46	2.31	17 (36%)	63,67,67	2.81	29 (46%)
12	CYC	I9	201	-	46,46,46	2.26	15 (32%)	63,67,67	2.79	29 (46%)
12	CYC	S3	201	-	46,46,46	2.28	16 (34%)	63,67,67	2.79	29 (46%)
12	CYC	e7	201	-	46,46,46	2.31	14 (30%)	63,67,67	2.90	23 (36%)

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
12	CYC	W3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	Y8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	Q1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	A5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	U8	201	-	-	6/26/74/74	0/4/4/4
12	CYC	X9	202	-	-	10/26/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	CYC	J6	201	-	-	10/26/74/74	0/4/4/4
12	CYC	D1	202	-	-	6/26/74/74	0/4/4/4
12	CYC	S9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	Y9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	U7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	Q4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	O7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	ZA	202	-	-	6/26/74/74	0/4/4/4
12	CYC	QA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	H2	201	-	-	6/26/74/74	0/4/4/4
12	CYC	h7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	Z1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	WA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	H6	201	-	-	6/26/74/74	0/4/4/4
12	CYC	p7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	e5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	L6	202	-	-	10/26/74/74	0/4/4/4
12	CYC	k5	1202	-	-	10/26/74/74	0/4/4/4
12	CYC	G3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	k7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	H9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	r7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	VA	201	-	-	6/26/74/74	0/4/4/4
12	CYC	k5	1204	-	-	10/26/74/74	0/4/4/4
12	CYC	J1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	J9	202	-	-	6/26/74/74	0/4/4/4
12	CYC	G2	201	-	-	10/26/74/74	0/4/4/4
12	CYC	D6	202	-	-	10/26/74/74	0/4/4/4
12	CYC	N5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	N6	101	-	-	6/26/74/74	0/4/4/4
12	CYC	L3	202	-	-	6/26/74/74	0/4/4/4
12	CYC	J4	201	-	-	6/26/74/74	0/4/4/4
12	CYC	O4	202	-	-	10/26/74/74	0/4/4/4
12	CYC	Z8	301	-	-	6/26/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	CYC	C4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	G7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	J3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	JA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	G9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	V9	201	-	-	6/26/74/74	0/4/4/4
12	CYC	I6	201	-	-	10/26/74/74	0/4/4/4
12	CYC	G5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	O9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	M5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	T9	302	-	-	10/26/74/74	0/4/4/4
12	CYC	V1	201	-	-	6/26/74/74	0/4/4/4
12	CYC	A9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	E4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	H4	202	-	-	10/26/74/74	0/4/4/4
12	CYC	F9	303	-	-	10/26/74/74	0/4/4/4
12	CYC	I1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	T8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	G1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	K2	201	-	-	10/26/74/74	0/4/4/4
12	CYC	R3	201	-	-	6/26/74/74	0/4/4/4
12	CYC	TA	302	-	-	10/26/74/74	0/4/4/4
12	CYC	J6	202	-	-	6/26/74/74	0/4/4/4
12	CYC	E1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	F3	202	-	-	10/26/74/74	0/4/4/4
12	CYC	B7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	H3	202	-	-	6/26/74/74	0/4/4/4
12	CYC	L6	201	-	-	6/26/74/74	0/4/4/4
12	CYC	U4	202	-	-	10/26/74/74	0/4/4/4
12	CYC	D5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	B3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	G6	201	-	-	10/26/74/74	0/4/4/4
12	CYC	C8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	f7	201	-	-	10/26/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	CYC	d5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	a5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	u7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	L8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	D8	202	-	-	6/26/74/74	0/4/4/4
12	CYC	a7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	b5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	P1	202	-	-	10/26/74/74	0/4/4/4
12	CYC	K5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	D9	202	-	-	10/26/74/74	0/4/4/4
12	CYC	P1	201	-	-	6/26/74/74	0/4/4/4
12	CYC	H9	202	-	-	6/26/74/74	0/4/4/4
12	CYC	B2	201	-	-	10/26/74/74	0/4/4/4
12	CYC	D6	201	-	-	6/26/74/74	0/4/4/4
12	CYC	M7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	H6	202	-	-	10/26/74/74	0/4/4/4
12	CYC	T3	301	-	-	6/26/74/74	0/4/4/4
12	CYC	Z	201	-	-	10/26/74/74	0/4/4/4
12	CYC	P4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	BA	201	-	-	6/26/74/74	0/4/4/4
12	CYC	T1	301	-	-	6/26/74/74	0/4/4/4
12	CYC	j7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	K9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	S7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	B5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	g7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	X4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	J2	201	-	-	10/26/74/74	0/4/4/4
12	CYC	B1	202	-	-	6/26/74/74	0/4/4/4
12	CYC	R4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	O5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	M8	302	-	-	6/26/74/74	0/4/4/4
12	CYC	XA	201	-	-	6/26/74/74	0/4/4/4
12	CYC	K4	201	-	-	10/26/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	CYC	D9	201	-	-	6/26/74/74	0/4/4/4
12	CYC	V9	202	-	-	10/26/74/74	0/4/4/4
12	CYC	a9	901	-	-	6/26/74/74	0/4/4/4
12	CYC	B4	202	-	-	6/26/74/74	0/4/4/4
12	CYC	Q3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	D1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	T4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	F2	202	-	-	10/26/74/74	0/4/4/4
12	CYC	F2	201	-	-	6/26/74/74	0/4/4/4
12	CYC	X5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	RA	202	-	-	10/26/74/74	0/4/4/4
12	CYC	S1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	I2	201	-	-	10/26/74/74	0/4/4/4
12	CYC	j5	1201	-	-	7/26/74/74	0/4/4/4
12	CYC	O8	201	-	-	6/26/74/74	0/4/4/4
12	CYC	Y4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	R8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	V1	202	-	-	10/26/74/74	0/4/4/4
12	CYC	L9	202	-	-	6/26/74/74	0/4/4/4
12	CYC	J5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	B8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	C9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	C5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	GA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	W8	202	-	-	10/26/74/74	0/4/4/4
12	CYC	H1	201	-	-	6/26/74/74	0/4/4/4
12	CYC	J8	202	-	-	10/26/74/74	0/4/4/4
12	CYC	C7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	J8	201	-	-	6/26/74/74	0/4/4/4
12	CYC	S5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	TA	301	-	-	6/26/74/74	0/4/4/4
12	CYC	V8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	B3	202	-	-	6/26/74/74	0/4/4/4
12	CYC	Z4	301	-	-	6/26/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	CYC	Y5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	DA	202	-	-	10/26/74/74	0/4/4/4
12	CYC	N8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	R9	202	-	-	10/26/74/74	0/4/4/4
12	CYC	o7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	F7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	E8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	J3	202	-	-	6/26/74/74	0/4/4/4
12	CYC	Z3	201	-	-	6/26/74/74	0/4/4/4
12	CYC	F4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	HA	202	-	-	6/26/74/74	0/4/4/4
12	CYC	O1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	V7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	I3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	Y1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	Z3	202	-	-	10/26/74/74	0/4/4/4
12	CYC	F4	202	-	-	6/26/74/74	0/4/4/4
12	CYC	A8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	H3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	X3	202	-	-	10/26/74/74	0/4/4/4
12	CYC	j5	1202	-	-	10/26/74/74	0/4/4/4
12	CYC	T3	302	-	-	10/26/74/74	0/4/4/4
12	CYC	A1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	L1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	m7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	W7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	ZA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	C3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	P9	202	-	-	10/26/74/74	0/4/4/4
12	CYC	O8	202	-	-	10/26/74/74	0/4/4/4
12	CYC	E7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	AA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	L5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	q7	201	-	-	7/26/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	CYC	VA	202	-	-	10/26/74/74	0/4/4/4
12	CYC	R5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	XA	202	-	-	10/26/74/74	0/4/4/4
12	CYC	K6	201	-	-	10/26/74/74	0/4/4/4
12	CYC	T5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	X1	202	-	-	10/26/74/74	0/4/4/4
12	CYC	D7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	K7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	A3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	G8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	H8	201	-	-	6/26/74/74	0/4/4/4
12	CYC	U4	201	-	-	6/26/74/74	0/4/4/4
12	CYC	IA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	JA	202	-	-	6/26/74/74	0/4/4/4
12	CYC	i7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	H2	202	-	-	10/26/74/74	0/4/4/4
12	CYC	F8	202	-	-	6/26/74/74	0/4/4/4
12	CYC	W1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	F8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	N2	101	-	-	6/26/74/74	0/4/4/4
12	CYC	I8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	D4	202	-	-	6/26/74/74	0/4/4/4
12	CYC	A4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	c5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	LA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	SA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	H5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	W8	201	-	-	6/26/74/74	0/4/4/4
12	CYC	B6	201	-	-	10/26/74/74	0/4/4/4
12	CYC	s7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	X1	201	-	-	6/26/74/74	0/4/4/4
12	CYC	L3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	DA	201	-	-	6/26/74/74	0/4/4/4
12	CYC	f5	201	-	-	10/26/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	CYC	D3	202	-	-	6/26/74/74	0/4/4/4
12	CYC	X8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	K1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	B9	201	-	-	6/26/74/74	0/4/4/4
12	CYC	F5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	E6	201	-	-	10/26/74/74	0/4/4/4
12	CYC	c7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	U5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	R7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	Q5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	P9	201	-	-	6/26/74/74	0/4/4/4
12	CYC	F9	301	-	-	6/26/74/74	0/4/4/4
12	CYC	R3	202	-	-	10/26/74/74	0/4/4/4
12	CYC	T9	301	-	-	6/26/74/74	0/4/4/4
12	CYC	W4	202	-	-	10/26/74/74	0/4/4/4
12	CYC	W4	201	-	-	6/26/74/74	0/4/4/4
12	CYC	H4	201	-	-	6/26/74/74	0/4/4/4
12	CYC	F1	202	-	-	10/26/74/74	0/4/4/4
12	CYC	F6	201	-	-	6/26/74/74	0/4/4/4
12	CYC	X7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	F1	201	-	-	6/26/74/74	0/4/4/4
12	CYC	L4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	U8	202	-	-	10/26/74/74	0/4/4/4
12	CYC	Z9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	YA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	PA	202	-	-	10/26/74/74	0/4/4/4
12	CYC	J9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	U9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	D4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	RA	201	-	-	6/26/74/74	0/4/4/4
12	CYC	K3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	L2	202	-	-	10/26/74/74	0/4/4/4
12	CYC	U1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	V5	201	-	-	10/26/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	CYC	aA	902	-	-	6/26/74/74	0/4/4/4
12	CYC	aA	901	-	-	6/26/74/74	0/4/4/4
12	CYC	S4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	D3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	E9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	Z9	202	-	-	6/26/74/74	0/4/4/4
12	CYC	PA	201	-	-	6/26/74/74	0/4/4/4
12	CYC	F3	201	-	-	6/26/74/74	0/4/4/4
12	CYC	BA	202	-	-	10/26/74/74	0/4/4/4
12	CYC	KA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	P3	202	-	-	10/26/74/74	0/4/4/4
12	CYC	C1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	P7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	I7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	X9	201	-	-	6/26/74/74	0/4/4/4
12	CYC	P3	201	-	-	6/26/74/74	0/4/4/4
12	CYC	H8	202	-	-	10/26/74/74	0/4/4/4
12	CYC	D2	202	-	-	10/26/74/74	0/4/4/4
12	CYC	N7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	Z1	202	-	-	6/26/74/74	0/4/4/4
12	CYC	K8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	J2	202	-	-	6/26/74/74	0/4/4/4
12	CYC	Q9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	k5	1203	-	-	10/26/74/74	0/4/4/4
12	CYC	LA	202	-	-	6/26/74/74	0/4/4/4
12	CYC	W5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	V3	202	-	-	10/26/74/74	0/4/4/4
12	CYC	E5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	J4	202	-	-	10/26/74/74	0/4/4/4
12	CYC	V3	201	-	-	6/26/74/74	0/4/4/4
12	CYC	B8	202	-	-	6/26/74/74	0/4/4/4
12	CYC	HA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	P5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	D8	201	-	-	10/26/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	CYC	Z5	201	-	-	10/26/74/74	0/4/4/4
12	CYC	UA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	FA	301	-	-	6/26/74/74	0/4/4/4
12	CYC	E3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	X3	201	-	-	6/26/74/74	0/4/4/4
12	CYC	U3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	Q7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	Q8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	R1	202	-	-	10/26/74/74	0/4/4/4
12	CYC	EA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	J7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	T1	302	-	-	10/26/74/74	0/4/4/4
12	CYC	C6	201	-	-	10/26/74/74	0/4/4/4
12	CYC	F6	202	-	-	10/26/74/74	0/4/4/4
12	CYC	S8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	L4	202	-	-	6/26/74/74	0/4/4/4
12	CYC	A6	201	-	-	10/26/74/74	0/4/4/4
12	CYC	A	201	-	-	10/26/74/74	0/4/4/4
12	CYC	F9	302	-	-	10/26/74/74	0/4/4/4
12	CYC	B1	201	-	-	10/26/74/74	0/4/4/4
12	CYC	I4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	S4	202	-	-	6/26/74/74	0/4/4/4
12	CYC	E2	201	-	-	10/26/74/74	0/4/4/4
12	CYC	T7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	H7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	B4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	b7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	V4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	M8	301	-	-	6/26/74/74	0/4/4/4
12	CYC	O4	201	-	-	6/26/74/74	0/4/4/4
12	CYC	OA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	CA	201	-	-	10/26/74/74	0/4/4/4
12	CYC	C2	201	-	-	10/26/74/74	0/4/4/4
12	CYC	R9	201	-	-	6/26/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
12	CYC	A7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	Y7	201	-	-	7/26/74/74	0/4/4/4
12	CYC	d7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	P8	201	-	-	10/26/74/74	0/4/4/4
12	CYC	L2	201	-	-	6/26/74/74	0/4/4/4
12	CYC	G4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	D2	201	-	-	6/26/74/74	0/4/4/4
12	CYC	L9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	H1	202	-	-	10/26/74/74	0/4/4/4
12	CYC	W9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	A2	201	-	-	10/26/74/74	0/4/4/4
12	CYC	k5	1201	-	-	7/26/74/74	0/4/4/4
12	CYC	M4	301	-	-	6/26/74/74	0/4/4/4
12	CYC	L7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	N4	201	-	-	10/26/74/74	0/4/4/4
12	CYC	v7	201	-	-	10/26/74/74	0/4/4/4
12	CYC	B9	202	-	-	10/26/74/74	0/4/4/4
12	CYC	R1	201	-	-	6/26/74/74	0/4/4/4
12	CYC	I5	201	-	-	7/26/74/74	0/4/4/4
12	CYC	Y3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	O3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	I9	201	-	-	10/26/74/74	0/4/4/4
12	CYC	S3	201	-	-	10/26/74/74	0/4/4/4
12	CYC	e7	201	-	-	7/26/74/74	0/4/4/4

All (5274) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	k5	1201	CYC	CHA-C1A	6.08	1.50	1.38
12	j5	1201	CYC	CHA-C1A	6.07	1.50	1.38
12	F7	201	CYC	C3B-C2B	6.05	1.49	1.36
12	p7	201	CYC	C3B-C2B	6.05	1.49	1.36
12	F5	201	CYC	C3B-C2B	6.03	1.49	1.36
12	V7	201	CYC	C3B-C2B	6.03	1.49	1.36
12	J5	201	CYC	C3B-C2B	6.03	1.49	1.36
12	f5	201	CYC	C3B-C2B	6.03	1.49	1.36
12	L5	201	CYC	C3B-C2B	6.03	1.49	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	L7	201	CYC	C3B-C2B	6.02	1.49	1.36
12	v7	201	CYC	C3B-C2B	6.01	1.49	1.36
12	D5	201	CYC	C3B-C2B	6.01	1.49	1.36
12	R5	201	CYC	C3B-C2B	6.01	1.49	1.36
12	H7	201	CYC	C3B-C2B	6.00	1.49	1.36
12	b7	201	CYC	C3B-C2B	5.99	1.49	1.36
12	k5	1204	CYC	C3B-C2B	5.99	1.49	1.36
12	T5	201	CYC	C3B-C2B	5.99	1.49	1.36
12	X5	201	CYC	C3B-C2B	5.98	1.49	1.36
12	T7	201	CYC	C3B-C2B	5.98	1.49	1.36
12	N7	201	CYC	C3B-C2B	5.98	1.49	1.36
12	k5	1202	CYC	C3B-C2B	5.98	1.49	1.36
12	h7	201	CYC	C3B-C2B	5.97	1.49	1.36
12	D7	201	CYC	C3B-C2B	5.96	1.49	1.36
12	Z	201	CYC	C3B-C2B	5.96	1.49	1.36
12	B5	201	CYC	C3B-C2B	5.96	1.49	1.36
12	b5	201	CYC	C3B-C2B	5.96	1.49	1.36
12	f7	201	CYC	C3B-C2B	5.96	1.49	1.36
12	R7	201	CYC	C3B-C2B	5.96	1.49	1.36
12	j5	1202	CYC	C3B-C2B	5.96	1.49	1.36
12	B7	201	CYC	C3B-C2B	5.96	1.49	1.36
12	N5	201	CYC	C3B-C2B	5.96	1.49	1.36
12	r7	201	CYC	C3B-C2B	5.95	1.49	1.36
12	A	201	CYC	C3B-C2B	5.95	1.49	1.36
12	j7	201	CYC	C3B-C2B	5.94	1.49	1.36
12	H5	201	CYC	C3B-C2B	5.94	1.49	1.36
12	X7	201	CYC	C3B-C2B	5.94	1.49	1.36
12	J7	201	CYC	C3B-C2B	5.93	1.49	1.36
12	k5	1203	CYC	C3B-C2B	5.92	1.49	1.36
12	Z5	201	CYC	C3B-C2B	5.92	1.49	1.36
12	d5	201	CYC	C3B-C2B	5.91	1.49	1.36
12	P7	201	CYC	C3B-C2B	5.91	1.49	1.36
12	d7	201	CYC	C3B-C2B	5.88	1.49	1.36
12	V5	201	CYC	C3B-C2B	5.87	1.49	1.36
12	P5	201	CYC	C3B-C2B	5.85	1.49	1.36
12	L2	201	CYC	CHA-C1A	5.73	1.49	1.38
12	L6	201	CYC	CHA-C1A	5.73	1.49	1.38
12	V1	201	CYC	CHA-C1A	5.71	1.49	1.38
12	HA	202	CYC	CHA-C1A	5.70	1.49	1.38
12	H4	201	CYC	CHA-C1A	5.69	1.49	1.38
12	H8	201	CYC	CHA-C1A	5.69	1.49	1.38
12	F3	201	CYC	CHA-C1A	5.69	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	XA	201	CYC	CHA-C1A	5.68	1.49	1.38
12	X9	201	CYC	CHA-C1A	5.68	1.49	1.38
12	JA	202	CYC	CHA-C1A	5.68	1.49	1.38
12	J3	202	CYC	CHA-C1A	5.68	1.49	1.38
12	J9	202	CYC	CHA-C1A	5.68	1.49	1.38
12	aA	901	CYC	CHA-C1A	5.68	1.49	1.38
12	V3	201	CYC	CHA-C1A	5.67	1.49	1.38
12	F1	201	CYC	CHA-C1A	5.67	1.49	1.38
12	H9	202	CYC	CHA-C1A	5.67	1.49	1.38
12	Z3	201	CYC	CHA-C1A	5.66	1.49	1.38
12	Z1	202	CYC	CHA-C1A	5.66	1.49	1.38
12	j5	1201	CYC	CHB-C1B	5.66	1.51	1.37
12	RA	201	CYC	CHA-C1A	5.64	1.49	1.38
12	R9	201	CYC	CHA-C1A	5.64	1.49	1.38
12	J4	201	CYC	CHA-C1A	5.64	1.49	1.38
12	J8	201	CYC	CHA-C1A	5.64	1.49	1.38
12	LA	202	CYC	CHA-C1A	5.64	1.49	1.38
12	L9	202	CYC	CHA-C1A	5.64	1.49	1.38
12	H2	201	CYC	CHA-C1A	5.64	1.49	1.38
12	H6	201	CYC	CHA-C1A	5.63	1.49	1.38
12	M4	301	CYC	CHA-C1A	5.63	1.49	1.38
12	B4	202	CYC	CHA-C1A	5.63	1.49	1.38
12	L3	202	CYC	CHA-C1A	5.63	1.49	1.38
12	aA	902	CYC	CHA-C1A	5.63	1.49	1.38
12	M8	301	CYC	CHA-C1A	5.62	1.49	1.38
12	D3	202	CYC	CHA-C1A	5.62	1.49	1.38
12	D1	202	CYC	CHA-C1A	5.62	1.49	1.38
12	E7	201	CYC	CHA-C1A	5.61	1.49	1.38
12	B8	202	CYC	CHA-C1A	5.61	1.49	1.38
12	TA	301	CYC	CHA-C1A	5.61	1.49	1.38
12	T9	301	CYC	CHA-C1A	5.61	1.49	1.38
12	c7	201	CYC	CHA-C1A	5.60	1.49	1.38
12	B3	202	CYC	CHA-C1A	5.60	1.49	1.38
12	K7	201	CYC	CHA-C1A	5.60	1.49	1.38
12	Q5	201	CYC	CHA-C1A	5.60	1.49	1.38
12	Z8	301	CYC	CHA-C1A	5.60	1.49	1.38
12	e7	201	CYC	CHA-C1A	5.59	1.49	1.38
12	Z4	301	CYC	CHA-C1A	5.59	1.49	1.38
12	S4	202	CYC	CHA-C1A	5.59	1.49	1.38
12	k5	1201	CYC	CHB-C1B	5.59	1.51	1.37
12	X3	201	CYC	CHA-C1A	5.59	1.49	1.38
12	X1	201	CYC	CHA-C1A	5.59	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	W5	201	CYC	CHA-C1A	5.58	1.49	1.38
12	BA	201	CYC	CHA-C1A	5.58	1.49	1.38
12	B9	201	CYC	CHA-C1A	5.58	1.49	1.38
12	a5	201	CYC	CHA-C1A	5.58	1.49	1.38
12	B1	202	CYC	CHA-C1A	5.58	1.49	1.38
12	a9	901	CYC	CHA-C1A	5.58	1.49	1.38
12	Y7	201	CYC	CHA-C1A	5.57	1.49	1.38
12	L4	202	CYC	CHA-C1A	5.57	1.49	1.38
12	J2	202	CYC	CHA-C1A	5.57	1.49	1.38
12	e5	201	CYC	CHA-C1A	5.57	1.49	1.38
12	c5	201	CYC	CHA-C1A	5.56	1.49	1.38
12	R1	201	CYC	CHA-C1A	5.56	1.49	1.38
12	R3	201	CYC	CHA-C1A	5.56	1.49	1.38
12	D4	202	CYC	CHA-C1A	5.56	1.49	1.38
12	D8	202	CYC	CHA-C1A	5.56	1.49	1.38
12	W7	201	CYC	CHA-C1A	5.56	1.49	1.38
12	F9	301	CYC	CHA-C1A	5.56	1.49	1.38
12	F2	201	CYC	CHA-C1A	5.56	1.49	1.38
12	a7	201	CYC	CHA-C1A	5.55	1.49	1.38
12	VA	201	CYC	CHA-C1A	5.55	1.49	1.38
12	V9	201	CYC	CHA-C1A	5.55	1.49	1.38
12	g7	201	CYC	CHA-C1A	5.55	1.49	1.38
12	i7	201	CYC	CHA-C1A	5.54	1.49	1.38
12	U4	201	CYC	CHA-C1A	5.54	1.49	1.38
12	U8	201	CYC	CHA-C1A	5.54	1.49	1.38
12	X7	201	CYC	C2A-C3A	5.54	1.48	1.36
12	k5	1202	CYC	C2A-C3A	5.54	1.48	1.36
12	P1	201	CYC	CHA-C1A	5.54	1.49	1.38
12	P3	201	CYC	CHA-C1A	5.54	1.49	1.38
12	N2	101	CYC	CHA-C1A	5.54	1.49	1.38
12	N6	101	CYC	CHA-C1A	5.54	1.49	1.38
12	u7	201	CYC	CHA-C1A	5.53	1.49	1.38
12	PA	201	CYC	CHA-C1A	5.52	1.49	1.38
12	P9	201	CYC	CHA-C1A	5.52	1.49	1.38
12	Y5	201	CYC	CHA-C1A	5.52	1.49	1.38
12	FA	301	CYC	CHA-C1A	5.52	1.49	1.38
12	W4	201	CYC	CHA-C1A	5.52	1.49	1.38
12	W8	201	CYC	CHA-C1A	5.52	1.49	1.38
12	o7	201	CYC	CHA-C1A	5.52	1.49	1.38
12	Q7	201	CYC	CHA-C1A	5.52	1.49	1.38
12	F4	202	CYC	CHA-C1A	5.52	1.49	1.38
12	F8	202	CYC	CHA-C1A	5.52	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	f7	201	CYC	C2A-C3A	5.52	1.48	1.36
12	T3	301	CYC	CHA-C1A	5.52	1.49	1.38
12	C5	201	CYC	CHA-C1A	5.52	1.49	1.38
12	I7	201	CYC	CHA-C1A	5.52	1.49	1.38
12	T1	301	CYC	CHA-C1A	5.52	1.49	1.38
12	M8	302	CYC	CHA-C1A	5.51	1.49	1.38
12	P5	201	CYC	C2A-C3A	5.51	1.48	1.36
12	ZA	202	CYC	CHA-C1A	5.51	1.49	1.38
12	Z9	202	CYC	CHA-C1A	5.51	1.49	1.38
12	k7	201	CYC	CHA-C1A	5.51	1.49	1.38
12	V5	201	CYC	C2A-C3A	5.51	1.48	1.36
12	J6	202	CYC	CHA-C1A	5.50	1.49	1.38
12	E5	201	CYC	CHA-C1A	5.50	1.49	1.38
12	j5	1201	CYC	C2A-C3A	5.50	1.48	1.36
12	O4	201	CYC	CHA-C1A	5.50	1.49	1.38
12	O8	201	CYC	CHA-C1A	5.50	1.49	1.38
12	U5	201	CYC	CHA-C1A	5.49	1.49	1.38
12	K5	201	CYC	CHA-C1A	5.49	1.49	1.38
12	C7	201	CYC	CHA-C1A	5.49	1.49	1.38
12	R7	201	CYC	C2A-C3A	5.49	1.48	1.36
12	k5	1201	CYC	C2A-C3A	5.49	1.48	1.36
12	F6	201	CYC	CHA-C1A	5.49	1.49	1.38
12	m7	201	CYC	CHA-C1A	5.49	1.49	1.38
12	J7	201	CYC	C2A-C3A	5.49	1.48	1.36
12	I5	201	CYC	CHA-C1A	5.48	1.49	1.38
12	s7	201	CYC	CHA-C1A	5.48	1.49	1.38
12	q7	201	CYC	CHA-C1A	5.48	1.49	1.38
12	H3	202	CYC	CHA-C1A	5.48	1.49	1.38
12	D6	201	CYC	CHA-C1A	5.48	1.49	1.38
12	d7	201	CYC	C2A-C3A	5.47	1.48	1.36
12	b7	201	CYC	C2A-C3A	5.47	1.48	1.36
12	H1	201	CYC	CHA-C1A	5.47	1.49	1.38
12	A5	201	CYC	CHA-C1A	5.47	1.49	1.38
12	M7	201	CYC	CHA-C1A	5.47	1.49	1.38
12	D2	201	CYC	CHA-C1A	5.47	1.49	1.38
12	X5	201	CYC	C2A-C3A	5.47	1.48	1.36
12	O5	201	CYC	CHA-C1A	5.46	1.49	1.38
12	h7	201	CYC	C2A-C3A	5.46	1.48	1.36
12	p7	201	CYC	C2A-C3A	5.46	1.48	1.36
12	f5	201	CYC	C2A-C3A	5.46	1.48	1.36
12	G5	201	CYC	CHA-C1A	5.46	1.49	1.38
12	R5	201	CYC	C2A-C3A	5.45	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	O7	201	CYC	CHA-C1A	5.45	1.49	1.38
12	S7	201	CYC	CHA-C1A	5.45	1.49	1.38
12	b5	201	CYC	C2A-C3A	5.44	1.48	1.36
12	j7	201	CYC	C2A-C3A	5.44	1.48	1.36
12	G7	201	CYC	CHA-C1A	5.44	1.49	1.38
12	F5	201	CYC	C2A-C3A	5.44	1.48	1.36
12	L7	201	CYC	C2A-C3A	5.43	1.48	1.36
12	F7	201	CYC	C2A-C3A	5.43	1.48	1.36
12	A	201	CYC	C2A-C3A	5.43	1.48	1.36
12	O7	201	CYC	C2A-C3A	5.43	1.48	1.36
12	U7	201	CYC	CHA-C1A	5.43	1.48	1.38
12	A7	201	CYC	CHA-C1A	5.42	1.48	1.38
12	a7	201	CYC	C2A-C3A	5.42	1.48	1.36
12	v7	201	CYC	C2A-C3A	5.42	1.48	1.36
12	H7	201	CYC	C2A-C3A	5.41	1.48	1.36
12	M5	201	CYC	CHA-C1A	5.41	1.48	1.38
12	B7	201	CYC	C2A-C3A	5.41	1.48	1.36
12	D7	201	CYC	C2A-C3A	5.41	1.48	1.36
12	J5	201	CYC	C2A-C3A	5.40	1.48	1.36
12	I7	201	CYC	C2A-C3A	5.40	1.48	1.36
12	DA	201	CYC	CHA-C1A	5.40	1.48	1.38
12	D9	201	CYC	CHA-C1A	5.40	1.48	1.38
12	k5	1203	CYC	C2A-C3A	5.40	1.48	1.36
12	r7	201	CYC	C2A-C3A	5.40	1.48	1.36
12	H5	201	CYC	C2A-C3A	5.40	1.48	1.36
12	Z	201	CYC	C2A-C3A	5.40	1.48	1.36
12	D5	201	CYC	C2A-C3A	5.39	1.48	1.36
12	S5	201	CYC	CHA-C1A	5.39	1.48	1.38
12	L5	201	CYC	C2A-C3A	5.39	1.48	1.36
12	C7	201	CYC	C2A-C3A	5.39	1.48	1.36
12	G2	201	CYC	C2A-C3A	5.38	1.48	1.36
12	K8	201	CYC	C2A-C3A	5.38	1.48	1.36
12	N7	201	CYC	C2A-C3A	5.38	1.48	1.36
12	A7	201	CYC	C2A-C3A	5.38	1.48	1.36
12	G7	201	CYC	C2A-C3A	5.38	1.48	1.36
12	g7	201	CYC	C2A-C3A	5.38	1.48	1.36
12	K7	201	CYC	C2A-C3A	5.37	1.48	1.36
12	k5	1202	CYC	CHA-C1A	5.37	1.48	1.38
12	V7	201	CYC	C2A-C3A	5.37	1.48	1.36
12	B5	201	CYC	C2A-C3A	5.36	1.48	1.36
12	T5	201	CYC	CHA-C1A	5.36	1.48	1.38
12	k5	1204	CYC	C2A-C3A	5.36	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	j5	1202	CYC	C2A-C3A	5.36	1.48	1.36
12	R4	201	CYC	C2A-C3A	5.36	1.48	1.36
12	R8	201	CYC	C2A-C3A	5.36	1.48	1.36
12	T7	201	CYC	C2A-C3A	5.35	1.48	1.36
12	f7	201	CYC	CHA-C1A	5.35	1.48	1.38
12	U7	201	CYC	C2A-C3A	5.35	1.48	1.36
12	I5	201	CYC	C2A-C3A	5.35	1.48	1.36
12	E5	201	CYC	C2A-C3A	5.35	1.48	1.36
12	s7	201	CYC	C2A-C3A	5.35	1.48	1.36
12	E7	201	CYC	C2A-C3A	5.34	1.48	1.36
12	k7	201	CYC	C2A-C3A	5.34	1.48	1.36
12	K4	201	CYC	C2A-C3A	5.34	1.48	1.36
12	C5	201	CYC	C2A-C3A	5.34	1.48	1.36
12	T5	201	CYC	C2A-C3A	5.34	1.48	1.36
12	B7	201	CYC	CHA-C1A	5.34	1.48	1.38
12	r7	201	CYC	CHA-C1A	5.33	1.48	1.38
12	m7	201	CYC	C2A-C3A	5.33	1.48	1.36
12	i7	201	CYC	C2A-C3A	5.33	1.48	1.36
12	H7	201	CYC	CHA-C1A	5.33	1.48	1.38
12	N5	201	CYC	C2A-C3A	5.33	1.48	1.36
12	G6	201	CYC	C2A-C3A	5.33	1.48	1.36
12	V7	201	CYC	CHA-C1A	5.32	1.48	1.38
12	e7	201	CYC	C2A-C3A	5.32	1.48	1.36
12	K2	201	CYC	C2A-C3A	5.32	1.48	1.36
12	K6	201	CYC	C2A-C3A	5.32	1.48	1.36
12	P5	201	CYC	CHA-C1A	5.32	1.48	1.38
12	O5	201	CYC	C2A-C3A	5.32	1.48	1.36
12	c5	201	CYC	C2A-C3A	5.32	1.48	1.36
12	P7	201	CYC	C2A-C3A	5.32	1.48	1.36
12	C3	201	CYC	C2A-C3A	5.32	1.48	1.36
12	G5	201	CYC	C2A-C3A	5.32	1.48	1.36
12	C1	201	CYC	C2A-C3A	5.32	1.48	1.36
12	N5	201	CYC	CHA-C1A	5.32	1.48	1.38
12	k5	1203	CYC	CHA-C1A	5.32	1.48	1.38
12	Q5	201	CYC	C2A-C3A	5.32	1.48	1.36
12	d5	201	CYC	C2A-C3A	5.31	1.48	1.36
12	Y7	201	CYC	C2A-C3A	5.31	1.48	1.36
12	q7	201	CYC	C2A-C3A	5.31	1.48	1.36
12	A	201	CYC	CHA-C1A	5.31	1.48	1.38
12	a5	201	CYC	C2A-C3A	5.31	1.48	1.36
12	Z5	201	CYC	C2A-C3A	5.31	1.48	1.36
12	K5	201	CYC	C2A-C3A	5.30	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	e5	201	CYC	C2A-C3A	5.30	1.48	1.36
12	N7	201	CYC	CHA-C1A	5.30	1.48	1.38
12	W7	201	CYC	C2A-C3A	5.30	1.48	1.36
12	c7	201	CYC	C2A-C3A	5.30	1.48	1.36
12	W5	201	CYC	C2A-C3A	5.30	1.48	1.36
12	S1	201	CYC	C2A-C3A	5.30	1.48	1.36
12	S3	201	CYC	C2A-C3A	5.30	1.48	1.36
12	Y5	201	CYC	C2A-C3A	5.29	1.48	1.36
12	u7	201	CYC	C2A-C3A	5.29	1.48	1.36
12	A5	201	CYC	C2A-C3A	5.29	1.48	1.36
12	Z	201	CYC	CHA-C1A	5.29	1.48	1.38
12	I1	201	CYC	C2A-C3A	5.29	1.48	1.36
12	N4	201	CYC	C2A-C3A	5.28	1.48	1.36
12	V5	201	CYC	CHA-C1A	5.28	1.48	1.38
12	P4	201	CYC	C2A-C3A	5.28	1.48	1.36
12	P8	201	CYC	C2A-C3A	5.28	1.48	1.36
12	I3	201	CYC	C2A-C3A	5.28	1.48	1.36
12	WA	201	CYC	C2A-C3A	5.28	1.48	1.36
12	W9	201	CYC	C2A-C3A	5.28	1.48	1.36
12	U5	201	CYC	C2A-C3A	5.28	1.48	1.36
12	O1	201	CYC	C2A-C3A	5.28	1.48	1.36
12	O3	201	CYC	C2A-C3A	5.28	1.48	1.36
12	U9	201	CYC	C2A-C3A	5.27	1.48	1.36
12	UA	201	CYC	C2A-C3A	5.27	1.48	1.36
12	C6	201	CYC	C2A-C3A	5.27	1.48	1.36
12	o7	201	CYC	C2A-C3A	5.27	1.48	1.36
12	Q7	201	CYC	C2A-C3A	5.27	1.48	1.36
12	X4	201	CYC	C2A-C3A	5.27	1.48	1.36
12	X8	201	CYC	C2A-C3A	5.27	1.48	1.36
12	CA	201	CYC	C2A-C3A	5.27	1.48	1.36
12	M7	201	CYC	C2A-C3A	5.27	1.48	1.36
12	C9	201	CYC	C2A-C3A	5.27	1.48	1.36
12	G1	201	CYC	C2A-C3A	5.26	1.48	1.36
12	V4	201	CYC	C2A-C3A	5.26	1.48	1.36
12	V8	201	CYC	C2A-C3A	5.26	1.48	1.36
12	d7	201	CYC	CHA-C1A	5.26	1.48	1.38
12	O1	201	CYC	CHA-C1A	5.26	1.48	1.38
12	O3	201	CYC	CHA-C1A	5.26	1.48	1.38
12	K3	201	CYC	C2A-C3A	5.26	1.48	1.36
12	J5	201	CYC	CHA-C1A	5.26	1.48	1.38
12	AA	201	CYC	C2A-C3A	5.25	1.48	1.36
12	A9	201	CYC	C2A-C3A	5.25	1.48	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	M5	201	CYC	C2A-C3A	5.25	1.48	1.36
12	E6	201	CYC	C2A-C3A	5.25	1.48	1.36
12	P7	201	CYC	CHA-C1A	5.25	1.48	1.38
12	D5	201	CYC	CHA-C1A	5.25	1.48	1.38
12	B5	201	CYC	CHA-C1A	5.25	1.48	1.38
12	b7	201	CYC	CHA-C1A	5.25	1.48	1.38
12	N8	201	CYC	C2A-C3A	5.25	1.48	1.36
12	W3	201	CYC	C2A-C3A	5.25	1.48	1.36
12	F5	201	CYC	CHA-C1A	5.25	1.48	1.38
12	j5	1202	CYC	CHA-C1A	5.25	1.48	1.38
12	h7	201	CYC	CHA-C1A	5.25	1.48	1.38
12	T4	201	CYC	C2A-C3A	5.24	1.48	1.36
12	T8	201	CYC	C2A-C3A	5.24	1.48	1.36
12	G3	201	CYC	C2A-C3A	5.24	1.48	1.36
12	K1	201	CYC	C2A-C3A	5.24	1.48	1.36
12	W1	201	CYC	C2A-C3A	5.24	1.48	1.36
12	C2	201	CYC	C2A-C3A	5.24	1.48	1.36
12	E4	201	CYC	C2A-C3A	5.24	1.48	1.36
12	E8	201	CYC	C2A-C3A	5.24	1.48	1.36
12	IA	201	CYC	C2A-C3A	5.23	1.48	1.36
12	G4	201	CYC	C2A-C3A	5.23	1.48	1.36
12	G8	201	CYC	C2A-C3A	5.23	1.48	1.36
12	I9	201	CYC	C2A-C3A	5.23	1.48	1.36
12	H5	201	CYC	CHA-C1A	5.23	1.48	1.38
12	p7	201	CYC	CHA-C1A	5.23	1.48	1.38
12	Q1	201	CYC	C2A-C3A	5.23	1.48	1.36
12	Q3	201	CYC	C2A-C3A	5.23	1.48	1.36
12	S7	201	CYC	C2A-C3A	5.23	1.48	1.36
12	A1	201	CYC	C2A-C3A	5.23	1.48	1.36
12	A3	201	CYC	C2A-C3A	5.23	1.48	1.36
12	E2	201	CYC	C2A-C3A	5.23	1.48	1.36
12	j7	201	CYC	CHA-C1A	5.23	1.48	1.38
12	QA	201	CYC	C2A-C3A	5.23	1.48	1.36
12	R7	201	CYC	CHA-C1A	5.23	1.48	1.38
12	S5	201	CYC	C2A-C3A	5.23	1.48	1.36
12	v7	201	CYC	CHA-C1A	5.22	1.48	1.38
12	k5	1204	CYC	CHA-C1A	5.22	1.48	1.38
12	F7	201	CYC	CHA-C1A	5.22	1.48	1.38
12	O9	201	CYC	C2A-C3A	5.22	1.48	1.36
12	GA	201	CYC	C2A-C3A	5.22	1.48	1.36
12	G9	201	CYC	C2A-C3A	5.22	1.48	1.36
12	R7	201	CYC	CHB-C1B	5.22	1.50	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	EA	201	CYC	C2A-C3A	5.22	1.48	1.36
12	X3	201	CYC	C2A-C3A	5.22	1.48	1.36
12	E9	201	CYC	C2A-C3A	5.22	1.48	1.36
12	X1	201	CYC	C2A-C3A	5.22	1.48	1.36
12	E3	201	CYC	C2A-C3A	5.22	1.48	1.36
12	E1	201	CYC	C2A-C3A	5.22	1.48	1.36
12	XA	201	CYC	C3B-C2B	5.22	1.48	1.36
12	L7	201	CYC	CHA-C1A	5.22	1.48	1.38
12	X5	201	CYC	CHA-C1A	5.22	1.48	1.38
12	R9	201	CYC	C2A-C3A	5.22	1.48	1.36
12	L5	201	CYC	CHA-C1A	5.22	1.48	1.38
12	I5	201	CYC	C3B-C2B	5.22	1.48	1.36
12	I4	201	CYC	CHA-C1A	5.21	1.48	1.38
12	I8	201	CYC	CHA-C1A	5.21	1.48	1.38
12	KA	201	CYC	C2A-C3A	5.21	1.48	1.36
12	K9	201	CYC	C2A-C3A	5.21	1.48	1.36
12	Q9	201	CYC	C2A-C3A	5.21	1.48	1.36
12	d5	201	CYC	CHA-C1A	5.21	1.48	1.38
12	YA	201	CYC	C2A-C3A	5.20	1.48	1.36
12	Y9	201	CYC	C2A-C3A	5.20	1.48	1.36
12	R5	201	CYC	CHA-C1A	5.20	1.48	1.38
12	g7	201	CYC	C3B-C2B	5.20	1.48	1.36
12	i7	201	CYC	CHB-C1B	5.20	1.50	1.37
12	T7	201	CYC	CHA-C1A	5.20	1.48	1.38
12	D4	202	CYC	C2A-C3A	5.19	1.48	1.36
12	D8	202	CYC	C2A-C3A	5.19	1.48	1.36
12	J2	201	CYC	C2A-C3A	5.19	1.48	1.36
12	p7	201	CYC	CHB-C1B	5.19	1.50	1.37
12	X7	201	CYC	CHA-C1A	5.19	1.48	1.38
12	H2	202	CYC	C2A-C3A	5.19	1.48	1.36
12	H6	202	CYC	C2A-C3A	5.19	1.48	1.36
12	D7	201	CYC	CHA-C1A	5.19	1.48	1.38
12	I4	201	CYC	C2A-C3A	5.19	1.48	1.36
12	I8	201	CYC	C2A-C3A	5.19	1.48	1.36
12	OA	201	CYC	C2A-C3A	5.18	1.48	1.36
12	C5	201	CYC	C3B-C2B	5.18	1.48	1.36
12	LA	202	CYC	C2A-C3A	5.18	1.48	1.36
12	L9	202	CYC	C2A-C3A	5.18	1.48	1.36
12	U5	201	CYC	CHB-C1B	5.18	1.50	1.37
12	C4	201	CYC	C2A-C3A	5.18	1.47	1.36
12	C8	201	CYC	C2A-C3A	5.18	1.47	1.36
12	X9	201	CYC	C3B-C2B	5.18	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	j7	201	CYC	CHB-C1B	5.18	1.50	1.37
12	BA	202	CYC	C2A-C3A	5.18	1.47	1.36
12	a7	201	CYC	C3B-C2B	5.18	1.47	1.36
12	B9	202	CYC	C2A-C3A	5.18	1.47	1.36
12	J6	201	CYC	C2A-C3A	5.18	1.47	1.36
12	A2	201	CYC	C2A-C3A	5.18	1.47	1.36
12	A6	201	CYC	C2A-C3A	5.18	1.47	1.36
12	VA	201	CYC	C3B-C2B	5.17	1.47	1.36
12	V9	201	CYC	C3B-C2B	5.17	1.47	1.36
12	O5	201	CYC	CHB-C1B	5.17	1.50	1.37
12	d7	201	CYC	CHB-C1B	5.17	1.50	1.37
12	ZA	202	CYC	C3B-C2B	5.17	1.47	1.36
12	Y3	201	CYC	C2A-C3A	5.17	1.47	1.36
12	Z9	202	CYC	C3B-C2B	5.17	1.47	1.36
12	Y1	201	CYC	C2A-C3A	5.17	1.47	1.36
12	C3	201	CYC	CHA-C1A	5.17	1.48	1.38
12	C1	201	CYC	CHA-C1A	5.17	1.48	1.38
12	OA	201	CYC	CHA-C1A	5.17	1.48	1.38
12	O9	201	CYC	CHA-C1A	5.17	1.48	1.38
12	RA	201	CYC	C2A-C3A	5.17	1.47	1.36
12	I6	201	CYC	C2A-C3A	5.17	1.47	1.36
12	W3	201	CYC	CHA-C1A	5.17	1.48	1.38
12	W1	201	CYC	CHA-C1A	5.17	1.48	1.38
12	A4	201	CYC	C2A-C3A	5.17	1.47	1.36
12	A8	201	CYC	C2A-C3A	5.17	1.47	1.36
12	O4	202	CYC	C2A-C3A	5.17	1.47	1.36
12	O8	202	CYC	C2A-C3A	5.17	1.47	1.36
12	P1	202	CYC	C2A-C3A	5.17	1.47	1.36
12	P3	202	CYC	C2A-C3A	5.17	1.47	1.36
12	T4	201	CYC	CHA-C1A	5.17	1.48	1.38
12	T8	201	CYC	CHA-C1A	5.17	1.48	1.38
12	A3	201	CYC	CHA-C1A	5.16	1.48	1.38
12	I6	201	CYC	CHA-C1A	5.16	1.48	1.38
12	X7	201	CYC	CHB-C1B	5.16	1.50	1.37
12	SA	201	CYC	C2A-C3A	5.16	1.47	1.36
12	S9	201	CYC	C2A-C3A	5.16	1.47	1.36
12	Z4	301	CYC	C3B-C2B	5.16	1.47	1.36
12	PA	201	CYC	C2A-C3A	5.16	1.47	1.36
12	I2	201	CYC	C2A-C3A	5.16	1.47	1.36
12	v7	201	CYC	CHB-C1B	5.16	1.50	1.37
12	W4	202	CYC	C2A-C3A	5.16	1.47	1.36
12	W8	202	CYC	C2A-C3A	5.16	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A1	201	CYC	CHA-C1A	5.15	1.48	1.38
12	M7	201	CYC	C3B-C2B	5.15	1.47	1.36
12	J7	201	CYC	CHA-C1A	5.15	1.48	1.38
12	X5	201	CYC	CHB-C1B	5.15	1.50	1.37
12	X4	201	CYC	CHA-C1A	5.15	1.48	1.38
12	X8	201	CYC	CHA-C1A	5.15	1.48	1.38
12	T9	302	CYC	C3B-C2B	5.15	1.47	1.36
12	A6	201	CYC	CHA-C1A	5.15	1.48	1.38
12	A2	201	CYC	CHA-C1A	5.15	1.48	1.38
12	D3	202	CYC	C2A-C3A	5.15	1.47	1.36
12	D1	202	CYC	C2A-C3A	5.15	1.47	1.36
12	b5	201	CYC	CHA-C1A	5.14	1.48	1.38
12	O1	201	CYC	C3B-C2B	5.14	1.47	1.36
12	O3	201	CYC	C3B-C2B	5.14	1.47	1.36
12	P9	201	CYC	C2A-C3A	5.14	1.47	1.36
12	J5	201	CYC	CHB-C1B	5.14	1.50	1.37
12	TA	301	CYC	C2A-C3A	5.14	1.47	1.36
12	T9	301	CYC	C2A-C3A	5.14	1.47	1.36
12	D2	201	CYC	C2A-C3A	5.14	1.47	1.36
12	R5	201	CYC	CHB-C1B	5.14	1.50	1.37
12	S5	201	CYC	C3B-C2B	5.14	1.47	1.36
12	m7	201	CYC	C3B-C2B	5.14	1.47	1.36
12	L4	202	CYC	C2A-C3A	5.14	1.47	1.36
12	f7	201	CYC	CHB-C1B	5.14	1.50	1.37
12	J4	201	CYC	C2A-C3A	5.14	1.47	1.36
12	SA	201	CYC	CHA-C1A	5.14	1.48	1.38
12	S9	201	CYC	CHA-C1A	5.14	1.48	1.38
12	f5	201	CYC	CHA-C1A	5.14	1.48	1.38
12	N2	101	CYC	C2A-C3A	5.14	1.47	1.36
12	N6	101	CYC	C2A-C3A	5.14	1.47	1.36
12	N4	201	CYC	CHA-C1A	5.14	1.48	1.38
12	N8	201	CYC	CHA-C1A	5.14	1.48	1.38
12	N2	101	CYC	C3B-C2B	5.14	1.47	1.36
12	J3	202	CYC	C3B-C2B	5.13	1.47	1.36
12	aA	901	CYC	C3B-C2B	5.13	1.47	1.36
12	J8	201	CYC	C2A-C3A	5.13	1.47	1.36
12	B5	201	CYC	CHB-C1B	5.13	1.50	1.37
12	D5	201	CYC	CHB-C1B	5.13	1.50	1.37
12	AA	201	CYC	CHA-C1A	5.13	1.48	1.38
12	A9	201	CYC	CHA-C1A	5.13	1.48	1.38
12	j5	1201	CYC	C1C-NC	-5.13	1.31	1.37
12	B4	202	CYC	C2A-C3A	5.13	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	h7	201	CYC	CHB-C1B	5.13	1.50	1.37
12	DA	201	CYC	C2A-C3A	5.13	1.47	1.36
12	TA	302	CYC	C3B-C2B	5.13	1.47	1.36
12	D9	201	CYC	C2A-C3A	5.13	1.47	1.36
12	BA	201	CYC	C2A-C3A	5.13	1.47	1.36
12	B9	201	CYC	C2A-C3A	5.13	1.47	1.36
12	VA	201	CYC	C2A-C3A	5.13	1.47	1.36
12	D4	202	CYC	C3B-C2B	5.13	1.47	1.36
12	V9	201	CYC	C2A-C3A	5.13	1.47	1.36
12	L3	202	CYC	C2A-C3A	5.13	1.47	1.36
12	I2	201	CYC	CHA-C1A	5.13	1.48	1.38
12	Z3	201	CYC	C2A-C3A	5.13	1.47	1.36
12	F9	302	CYC	C2A-C3A	5.13	1.47	1.36
12	Z1	202	CYC	C2A-C3A	5.13	1.47	1.36
12	D6	201	CYC	C2A-C3A	5.13	1.47	1.36
12	s7	201	CYC	C3B-C2B	5.13	1.47	1.36
12	Z5	201	CYC	CHA-C1A	5.13	1.48	1.38
12	O4	201	CYC	C3B-C2B	5.13	1.47	1.36
12	O8	201	CYC	C3B-C2B	5.13	1.47	1.36
12	I5	201	CYC	CHB-C1B	5.12	1.50	1.37
12	H2	201	CYC	C2A-C3A	5.12	1.47	1.36
12	U3	201	CYC	C2A-C3A	5.12	1.47	1.36
12	H4	202	CYC	C2A-C3A	5.12	1.47	1.36
12	H8	202	CYC	C2A-C3A	5.12	1.47	1.36
12	U1	201	CYC	C2A-C3A	5.12	1.47	1.36
12	Y5	201	CYC	CHB-C1B	5.12	1.50	1.37
12	S4	202	CYC	C2A-C3A	5.12	1.47	1.36
12	U7	201	CYC	C3B-C2B	5.12	1.47	1.36
12	C5	201	CYC	CHB-C1B	5.12	1.50	1.37
12	W5	201	CYC	CHB-C1B	5.12	1.50	1.37
12	o7	201	CYC	C3B-C2B	5.12	1.47	1.36
12	FA	301	CYC	C2A-C3A	5.12	1.47	1.36
12	F9	301	CYC	C2A-C3A	5.12	1.47	1.36
12	LA	202	CYC	C3B-C2B	5.12	1.47	1.36
12	O7	201	CYC	C3B-C2B	5.12	1.47	1.36
12	L9	202	CYC	C3B-C2B	5.12	1.47	1.36
12	aA	902	CYC	C2A-C3A	5.12	1.47	1.36
12	o7	201	CYC	CHB-C1B	5.12	1.50	1.37
12	b7	201	CYC	CHB-C1B	5.12	1.50	1.37
12	V4	201	CYC	CHA-C1A	5.12	1.48	1.38
12	V8	201	CYC	CHA-C1A	5.12	1.48	1.38
12	f5	201	CYC	CHB-C1B	5.11	1.50	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	k5	1202	CYC	CHB-C1B	5.11	1.50	1.37
12	i7	201	CYC	C3B-C2B	5.11	1.47	1.36
12	C7	201	CYC	CHB-C1B	5.11	1.50	1.37
12	B3	202	CYC	C2A-C3A	5.11	1.47	1.36
12	u7	201	CYC	CHB-C1B	5.11	1.50	1.37
12	e5	201	CYC	C3B-C2B	5.11	1.47	1.36
12	F9	303	CYC	C2A-C3A	5.11	1.47	1.36
12	a9	901	CYC	C2A-C3A	5.11	1.47	1.36
12	Q1	201	CYC	CHA-C1A	5.11	1.48	1.38
12	Q3	201	CYC	CHA-C1A	5.11	1.48	1.38
12	Z8	301	CYC	C3B-C2B	5.11	1.47	1.36
12	F6	201	CYC	C3B-C2B	5.11	1.47	1.36
12	Q5	201	CYC	CHB-C1B	5.11	1.50	1.37
12	X9	202	CYC	C2A-C3A	5.11	1.47	1.36
12	b5	201	CYC	CHB-C1B	5.11	1.50	1.37
12	H6	201	CYC	C2A-C3A	5.11	1.47	1.36
12	aA	901	CYC	C2A-C3A	5.11	1.47	1.36
12	F5	201	CYC	CHB-C1B	5.11	1.50	1.37
12	I7	201	CYC	CHB-C1B	5.11	1.50	1.37
12	c7	201	CYC	CHB-C1B	5.11	1.50	1.37
12	N5	201	CYC	CHB-C1B	5.11	1.50	1.37
12	UA	201	CYC	CHA-C1A	5.11	1.48	1.38
12	U9	201	CYC	CHA-C1A	5.11	1.48	1.38
12	B1	202	CYC	C2A-C3A	5.11	1.47	1.36
12	N6	101	CYC	C3B-C2B	5.11	1.47	1.36
12	K5	201	CYC	C3B-C2B	5.11	1.47	1.36
12	XA	202	CYC	C2A-C3A	5.10	1.47	1.36
12	B4	201	CYC	C2A-C3A	5.10	1.47	1.36
12	B8	201	CYC	C2A-C3A	5.10	1.47	1.36
12	D8	202	CYC	C3B-C2B	5.10	1.47	1.36
12	A4	201	CYC	CHA-C1A	5.10	1.48	1.38
12	A8	201	CYC	CHA-C1A	5.10	1.48	1.38
12	a5	201	CYC	CHB-C1B	5.10	1.50	1.37
12	F7	201	CYC	CHB-C1B	5.10	1.50	1.37
12	W7	201	CYC	CHB-C1B	5.10	1.50	1.37
12	V3	202	CYC	C2A-C3A	5.10	1.47	1.36
12	B8	202	CYC	C2A-C3A	5.10	1.47	1.36
12	V1	202	CYC	C2A-C3A	5.10	1.47	1.36
12	F3	201	CYC	C3B-C2B	5.10	1.47	1.36
12	F1	201	CYC	C3B-C2B	5.10	1.47	1.36
12	J3	202	CYC	C2A-C3A	5.10	1.47	1.36
12	PA	201	CYC	C3B-C2B	5.10	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	P9	201	CYC	C3B-C2B	5.10	1.47	1.36
12	F4	202	CYC	C2A-C3A	5.10	1.47	1.36
12	F8	202	CYC	C2A-C3A	5.10	1.47	1.36
12	G4	201	CYC	CHA-C1A	5.10	1.48	1.38
12	G8	201	CYC	CHA-C1A	5.10	1.48	1.38
12	M8	302	CYC	C2A-C3A	5.10	1.47	1.36
12	Z4	301	CYC	C2A-C3A	5.10	1.47	1.36
12	k5	1201	CYC	C1C-NC	-5.10	1.31	1.37
12	KA	201	CYC	C3B-C2B	5.10	1.47	1.36
12	K9	201	CYC	C3B-C2B	5.10	1.47	1.36
12	B3	201	CYC	C2A-C3A	5.09	1.47	1.36
12	B1	201	CYC	C2A-C3A	5.09	1.47	1.36
12	W4	201	CYC	C2A-C3A	5.09	1.47	1.36
12	J4	202	CYC	C2A-C3A	5.09	1.47	1.36
12	W8	201	CYC	C2A-C3A	5.09	1.47	1.36
12	J8	202	CYC	C2A-C3A	5.09	1.47	1.36
12	c5	201	CYC	CHB-C1B	5.09	1.50	1.37
12	B7	201	CYC	CHB-C1B	5.09	1.50	1.37
12	e5	201	CYC	CHB-C1B	5.09	1.50	1.37
12	GA	201	CYC	C3B-C2B	5.09	1.47	1.36
12	G9	201	CYC	C3B-C2B	5.09	1.47	1.36
12	Q5	201	CYC	C3B-C2B	5.09	1.47	1.36
12	L7	201	CYC	CHB-C1B	5.09	1.50	1.37
12	L2	201	CYC	C2A-C3A	5.09	1.47	1.36
12	L6	201	CYC	C2A-C3A	5.09	1.47	1.36
12	S4	202	CYC	C3B-C2B	5.09	1.47	1.36
12	X3	202	CYC	C2A-C3A	5.09	1.47	1.36
12	W5	201	CYC	C3B-C2B	5.09	1.47	1.36
12	u7	201	CYC	C3B-C2B	5.09	1.47	1.36
12	X1	202	CYC	C2A-C3A	5.09	1.47	1.36
12	B2	201	CYC	C2A-C3A	5.09	1.47	1.36
12	Q9	201	CYC	CHA-C1A	5.09	1.48	1.38
12	E2	201	CYC	CHA-C1A	5.09	1.48	1.38
12	a5	201	CYC	C3B-C2B	5.09	1.47	1.36
12	WA	201	CYC	CHA-C1A	5.09	1.48	1.38
12	U3	201	CYC	CHA-C1A	5.09	1.48	1.38
12	W9	201	CYC	CHA-C1A	5.09	1.48	1.38
12	U1	201	CYC	CHA-C1A	5.09	1.48	1.38
12	L3	201	CYC	C2A-C3A	5.09	1.47	1.36
12	L1	201	CYC	C2A-C3A	5.09	1.47	1.36
12	Q7	201	CYC	CHB-C1B	5.09	1.50	1.37
12	I7	201	CYC	C3B-C2B	5.08	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	J2	202	CYC	C3B-C2B	5.08	1.47	1.36
12	E5	201	CYC	C3B-C2B	5.08	1.47	1.36
12	W7	201	CYC	C3B-C2B	5.08	1.47	1.36
12	U5	201	CYC	C3B-C2B	5.08	1.47	1.36
12	P5	201	CYC	CHB-C1B	5.08	1.50	1.37
12	H4	201	CYC	C3B-C2B	5.08	1.47	1.36
12	C6	201	CYC	C3B-C2B	5.08	1.47	1.36
12	a7	201	CYC	CHB-C1B	5.08	1.50	1.37
12	H5	201	CYC	CHB-C1B	5.08	1.50	1.37
12	V7	201	CYC	CHB-C1B	5.08	1.50	1.37
12	TA	302	CYC	C2A-C3A	5.08	1.47	1.36
12	T9	302	CYC	C2A-C3A	5.08	1.47	1.36
12	H7	201	CYC	CHB-C1B	5.08	1.50	1.37
12	M4	301	CYC	C2A-C3A	5.08	1.47	1.36
12	H9	202	CYC	C3B-C2B	5.08	1.47	1.36
12	V5	201	CYC	CHB-C1B	5.08	1.50	1.37
12	QA	201	CYC	CHA-C1A	5.08	1.48	1.38
12	r7	201	CYC	CHB-C1B	5.08	1.50	1.37
12	D3	202	CYC	C3B-C2B	5.07	1.47	1.36
12	D1	202	CYC	C3B-C2B	5.07	1.47	1.36
12	k5	1203	CYC	CHB-C1B	5.07	1.50	1.37
12	k5	1204	CYC	CHB-C1B	5.07	1.50	1.37
12	O5	201	CYC	C3B-C2B	5.07	1.47	1.36
12	E9	201	CYC	C3B-C2B	5.07	1.47	1.36
12	B6	201	CYC	C2A-C3A	5.07	1.47	1.36
12	V3	201	CYC	C2A-C3A	5.07	1.47	1.36
12	V1	201	CYC	C2A-C3A	5.07	1.47	1.36
12	K2	201	CYC	C3B-C2B	5.07	1.47	1.36
12	H4	201	CYC	C2A-C3A	5.07	1.47	1.36
12	K6	201	CYC	C3B-C2B	5.07	1.47	1.36
12	H8	201	CYC	C2A-C3A	5.07	1.47	1.36
12	d5	201	CYC	CHB-C1B	5.07	1.50	1.37
12	JA	201	CYC	C2A-C3A	5.07	1.47	1.36
12	R4	201	CYC	C3B-C2B	5.07	1.47	1.36
12	M5	201	CYC	C3B-C2B	5.07	1.47	1.36
12	R8	201	CYC	C3B-C2B	5.07	1.47	1.36
12	J9	201	CYC	C2A-C3A	5.07	1.47	1.36
12	J2	202	CYC	C2A-C3A	5.07	1.47	1.36
12	T3	302	CYC	C2A-C3A	5.07	1.47	1.36
12	J6	202	CYC	C2A-C3A	5.07	1.47	1.36
12	Q7	201	CYC	C3B-C2B	5.07	1.47	1.36
12	T1	302	CYC	C2A-C3A	5.07	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	X3	201	CYC	C3B-C2B	5.07	1.47	1.36
12	j5	1202	CYC	CHB-C1B	5.07	1.50	1.37
12	O4	201	CYC	C2A-C3A	5.07	1.47	1.36
12	O8	201	CYC	C2A-C3A	5.07	1.47	1.36
12	E6	201	CYC	C3B-C2B	5.07	1.47	1.36
12	E2	201	CYC	C3B-C2B	5.07	1.47	1.36
12	Z8	301	CYC	C2A-C3A	5.07	1.47	1.36
12	L5	201	CYC	CHB-C1B	5.07	1.50	1.37
12	Z5	201	CYC	CHB-C1B	5.07	1.50	1.37
12	E4	201	CYC	CHA-C1A	5.07	1.48	1.38
12	E8	201	CYC	CHA-C1A	5.07	1.48	1.38
12	XA	201	CYC	C2A-C3A	5.07	1.47	1.36
12	X9	201	CYC	C2A-C3A	5.07	1.47	1.36
12	PA	202	CYC	C2A-C3A	5.07	1.47	1.36
12	P9	202	CYC	C2A-C3A	5.07	1.47	1.36
12	C4	201	CYC	C3B-C2B	5.06	1.47	1.36
12	R3	201	CYC	C3B-C2B	5.06	1.47	1.36
12	Y5	201	CYC	C3B-C2B	5.06	1.47	1.36
12	C8	201	CYC	C3B-C2B	5.06	1.47	1.36
12	J7	201	CYC	CHB-C1B	5.06	1.50	1.37
12	H3	202	CYC	C3B-C2B	5.06	1.47	1.36
12	D2	201	CYC	C3B-C2B	5.06	1.47	1.36
12	g7	201	CYC	CHB-C1B	5.06	1.50	1.37
12	P1	201	CYC	C2A-C3A	5.06	1.47	1.36
12	P3	201	CYC	C2A-C3A	5.06	1.47	1.36
12	T5	201	CYC	CHB-C1B	5.06	1.50	1.37
12	GA	201	CYC	CHA-C1A	5.06	1.48	1.38
12	G9	201	CYC	CHA-C1A	5.06	1.48	1.38
12	F4	201	CYC	C2A-C3A	5.06	1.47	1.36
12	F8	201	CYC	C2A-C3A	5.06	1.47	1.36
12	R1	201	CYC	C2A-C3A	5.06	1.47	1.36
12	R3	201	CYC	C2A-C3A	5.06	1.47	1.36
12	M8	302	CYC	C3B-C2B	5.06	1.47	1.36
12	J6	202	CYC	C3B-C2B	5.06	1.47	1.36
12	R1	201	CYC	C3B-C2B	5.06	1.47	1.36
12	G2	201	CYC	CHA-C1A	5.06	1.48	1.38
12	G6	201	CYC	CHA-C1A	5.06	1.48	1.38
12	H1	202	CYC	C2A-C3A	5.06	1.47	1.36
12	D4	201	CYC	C3B-C2B	5.06	1.47	1.36
12	D8	201	CYC	C3B-C2B	5.06	1.47	1.36
12	C7	201	CYC	C3B-C2B	5.05	1.47	1.36
12	O7	201	CYC	CHB-C1B	5.05	1.50	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	CA	201	CYC	CHA-C1A	5.05	1.48	1.38
12	A1	201	CYC	C3B-C2B	5.05	1.47	1.36
12	A3	201	CYC	C3B-C2B	5.05	1.47	1.36
12	a9	901	CYC	C3B-C2B	5.05	1.47	1.36
12	U7	201	CYC	CHB-C1B	5.05	1.50	1.37
12	N7	201	CYC	CHB-C1B	5.05	1.50	1.37
12	c7	201	CYC	C3B-C2B	5.05	1.47	1.36
12	JA	202	CYC	C3B-C2B	5.05	1.47	1.36
12	J9	202	CYC	C3B-C2B	5.05	1.47	1.36
12	H6	201	CYC	C3B-C2B	5.05	1.47	1.36
12	S8	201	CYC	C2A-C3A	5.05	1.47	1.36
12	Y3	201	CYC	CHA-C1A	5.05	1.48	1.38
12	E6	201	CYC	CHA-C1A	5.05	1.48	1.38
12	Y1	201	CYC	CHA-C1A	5.05	1.48	1.38
12	TA	301	CYC	C3B-C2B	5.05	1.47	1.36
12	S4	201	CYC	C2A-C3A	5.05	1.47	1.36
12	N4	201	CYC	C3B-C2B	5.05	1.47	1.36
12	N8	201	CYC	C3B-C2B	5.05	1.47	1.36
12	T9	301	CYC	C3B-C2B	5.05	1.47	1.36
12	E3	201	CYC	CHA-C1A	5.05	1.48	1.38
12	E1	201	CYC	CHA-C1A	5.05	1.48	1.38
12	DA	201	CYC	C3B-C2B	5.05	1.47	1.36
12	D9	201	CYC	C3B-C2B	5.05	1.47	1.36
12	I3	201	CYC	CHA-C1A	5.05	1.48	1.38
12	I1	201	CYC	CHA-C1A	5.05	1.48	1.38
12	T7	201	CYC	CHB-C1B	5.05	1.50	1.37
12	J2	201	CYC	C3B-C2B	5.05	1.47	1.36
12	Z3	201	CYC	C3B-C2B	5.05	1.47	1.36
12	J6	201	CYC	C3B-C2B	5.05	1.47	1.36
12	Z1	202	CYC	C3B-C2B	5.05	1.47	1.36
12	B1	202	CYC	C3B-C2B	5.05	1.47	1.36
12	F6	202	CYC	C3B-C2B	5.05	1.47	1.36
12	F8	202	CYC	C3B-C2B	5.05	1.47	1.36
12	A2	201	CYC	C3B-C2B	5.05	1.47	1.36
12	H8	201	CYC	C3B-C2B	5.04	1.47	1.36
12	C9	201	CYC	CHA-C1A	5.04	1.48	1.38
12	A	201	CYC	CHB-C1B	5.04	1.50	1.37
12	A7	201	CYC	CHB-C1B	5.04	1.50	1.37
12	EA	201	CYC	C3B-C2B	5.04	1.47	1.36
12	RA	201	CYC	C3B-C2B	5.04	1.47	1.36
12	I3	201	CYC	C3B-C2B	5.04	1.47	1.36
12	V3	201	CYC	C3B-C2B	5.04	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	R9	201	CYC	C3B-C2B	5.04	1.47	1.36
12	I1	201	CYC	C3B-C2B	5.04	1.47	1.36
12	V1	201	CYC	C3B-C2B	5.04	1.47	1.36
12	E4	201	CYC	C3B-C2B	5.04	1.47	1.36
12	E8	201	CYC	C3B-C2B	5.04	1.47	1.36
12	C2	201	CYC	C3B-C2B	5.04	1.47	1.36
12	HA	202	CYC	C3B-C2B	5.04	1.47	1.36
12	X4	201	CYC	C3B-C2B	5.04	1.47	1.36
12	X8	201	CYC	C3B-C2B	5.04	1.47	1.36
12	K4	201	CYC	CHA-C1A	5.04	1.48	1.38
12	K8	201	CYC	CHA-C1A	5.04	1.48	1.38
12	H3	201	CYC	C2A-C3A	5.04	1.47	1.36
12	G5	201	CYC	C3B-C2B	5.04	1.47	1.36
12	R1	202	CYC	C2A-C3A	5.03	1.47	1.36
12	R3	202	CYC	C2A-C3A	5.03	1.47	1.36
12	A6	201	CYC	C3B-C2B	5.03	1.47	1.36
12	JA	202	CYC	C2A-C3A	5.03	1.47	1.36
12	J9	202	CYC	C2A-C3A	5.03	1.47	1.36
12	ZA	202	CYC	C2A-C3A	5.03	1.47	1.36
12	Y4	201	CYC	C2A-C3A	5.03	1.47	1.36
12	G7	201	CYC	C3B-C2B	5.03	1.47	1.36
12	Y8	201	CYC	C2A-C3A	5.03	1.47	1.36
12	Z9	202	CYC	C2A-C3A	5.03	1.47	1.36
12	A4	201	CYC	C3B-C2B	5.03	1.47	1.36
12	A8	201	CYC	C3B-C2B	5.03	1.47	1.36
12	B3	202	CYC	C3B-C2B	5.03	1.47	1.36
12	KA	201	CYC	CHA-C1A	5.03	1.48	1.38
12	K9	201	CYC	CHA-C1A	5.03	1.48	1.38
12	Q4	201	CYC	C2A-C3A	5.03	1.47	1.36
12	K6	201	CYC	CHA-C1A	5.03	1.48	1.38
12	J4	202	CYC	C3B-C2B	5.03	1.47	1.36
12	F6	201	CYC	C2A-C3A	5.03	1.47	1.36
12	J8	202	CYC	C3B-C2B	5.03	1.47	1.36
12	J3	201	CYC	C2A-C3A	5.03	1.47	1.36
12	J1	201	CYC	C2A-C3A	5.03	1.47	1.36
12	E7	201	CYC	C3B-C2B	5.03	1.47	1.36
12	K3	201	CYC	CHA-C1A	5.03	1.48	1.38
12	K1	201	CYC	CHA-C1A	5.03	1.48	1.38
12	X1	201	CYC	C3B-C2B	5.03	1.47	1.36
12	D6	201	CYC	C3B-C2B	5.03	1.47	1.36
12	W4	201	CYC	C3B-C2B	5.03	1.47	1.36
12	A5	201	CYC	C3B-C2B	5.03	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	W8	201	CYC	C3B-C2B	5.03	1.47	1.36
12	B4	202	CYC	C3B-C2B	5.03	1.47	1.36
12	q7	201	CYC	CHB-C1B	5.03	1.49	1.37
12	FA	301	CYC	C3B-C2B	5.02	1.47	1.36
12	U4	201	CYC	C3B-C2B	5.02	1.47	1.36
12	L4	202	CYC	C3B-C2B	5.02	1.47	1.36
12	U8	201	CYC	C3B-C2B	5.02	1.47	1.36
12	F9	301	CYC	C3B-C2B	5.02	1.47	1.36
12	IA	201	CYC	CHA-C1A	5.02	1.48	1.38
12	I9	201	CYC	CHA-C1A	5.02	1.48	1.38
12	D7	201	CYC	CHB-C1B	5.02	1.49	1.37
12	XA	202	CYC	C3B-C2B	5.02	1.47	1.36
12	X9	202	CYC	C3B-C2B	5.02	1.47	1.36
12	H1	201	CYC	C3B-C2B	5.02	1.47	1.36
12	M8	301	CYC	C2A-C3A	5.02	1.47	1.36
12	Q8	201	CYC	C2A-C3A	5.02	1.47	1.36
12	F9	302	CYC	C3B-C2B	5.02	1.47	1.36
12	Z	201	CYC	CHB-C1B	5.02	1.49	1.37
12	Y7	201	CYC	C3B-C2B	5.02	1.47	1.36
12	T3	301	CYC	C3B-C2B	5.02	1.47	1.36
12	T1	301	CYC	C3B-C2B	5.02	1.47	1.36
12	c5	201	CYC	C3B-C2B	5.02	1.47	1.36
12	U4	201	CYC	C2A-C3A	5.02	1.47	1.36
12	U8	201	CYC	C2A-C3A	5.02	1.47	1.36
12	H9	202	CYC	C2A-C3A	5.02	1.47	1.36
12	D3	201	CYC	C3B-C2B	5.02	1.47	1.36
12	D1	201	CYC	C3B-C2B	5.02	1.47	1.36
12	A7	201	CYC	C3B-C2B	5.02	1.47	1.36
12	e7	201	CYC	C3B-C2B	5.02	1.47	1.36
12	k7	201	CYC	C3B-C2B	5.02	1.47	1.36
12	HA	202	CYC	C2A-C3A	5.02	1.47	1.36
12	B4	201	CYC	C3B-C2B	5.01	1.47	1.36
12	B8	201	CYC	C3B-C2B	5.01	1.47	1.36
12	B8	202	CYC	C3B-C2B	5.01	1.47	1.36
12	L3	202	CYC	C3B-C2B	5.01	1.47	1.36
12	F4	202	CYC	C3B-C2B	5.01	1.47	1.36
12	P7	201	CYC	CHB-C1B	5.01	1.49	1.37
12	H2	201	CYC	C3B-C2B	5.01	1.47	1.36
12	HA	201	CYC	C2A-C3A	5.01	1.47	1.36
12	H9	201	CYC	C2A-C3A	5.01	1.47	1.36
12	CA	201	CYC	C3B-C2B	5.01	1.47	1.36
12	LA	201	CYC	C2A-C3A	5.01	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	G4	201	CYC	C3B-C2B	5.01	1.47	1.36
12	G8	201	CYC	C3B-C2B	5.01	1.47	1.36
12	L9	201	CYC	C2A-C3A	5.01	1.47	1.36
12	C9	201	CYC	C3B-C2B	5.01	1.47	1.36
12	T3	302	CYC	C3B-C2B	5.01	1.47	1.36
12	T1	302	CYC	C3B-C2B	5.01	1.47	1.36
12	K5	201	CYC	CHB-C1B	5.01	1.49	1.37
12	RA	202	CYC	C2A-C3A	5.01	1.47	1.36
12	Q9	201	CYC	C3B-C2B	5.01	1.47	1.36
12	R9	202	CYC	C2A-C3A	5.01	1.47	1.36
12	e7	201	CYC	CHB-C1B	5.01	1.49	1.37
12	aA	902	CYC	C3B-C2B	5.01	1.47	1.36
12	J4	201	CYC	C3B-C2B	5.01	1.47	1.36
12	L6	201	CYC	C3B-C2B	5.01	1.47	1.36
12	J8	201	CYC	C3B-C2B	5.01	1.47	1.36
12	Y9	201	CYC	C3B-C2B	5.01	1.47	1.36
12	F2	201	CYC	C3B-C2B	5.01	1.47	1.36
12	K7	201	CYC	C3B-C2B	5.01	1.47	1.36
12	G5	201	CYC	CHB-C1B	5.01	1.49	1.37
12	U3	201	CYC	C3B-C2B	5.00	1.47	1.36
12	Y4	201	CYC	C3B-C2B	5.00	1.47	1.36
12	Y8	201	CYC	C3B-C2B	5.00	1.47	1.36
12	U1	201	CYC	C3B-C2B	5.00	1.47	1.36
12	E7	201	CYC	CHB-C1B	5.00	1.49	1.37
12	RA	202	CYC	C3B-C2B	5.00	1.47	1.36
12	L2	201	CYC	C3B-C2B	5.00	1.47	1.36
12	R9	202	CYC	C3B-C2B	5.00	1.47	1.36
12	E5	201	CYC	CHB-C1B	5.00	1.49	1.37
12	K8	201	CYC	C3B-C2B	5.00	1.47	1.36
12	F3	201	CYC	C2A-C3A	5.00	1.47	1.36
12	F1	201	CYC	C2A-C3A	5.00	1.47	1.36
12	U4	202	CYC	C2A-C3A	5.00	1.47	1.36
12	EA	201	CYC	CHA-C1A	5.00	1.48	1.38
12	G3	201	CYC	CHA-C1A	5.00	1.48	1.38
12	E9	201	CYC	CHA-C1A	5.00	1.48	1.38
12	G1	201	CYC	CHA-C1A	5.00	1.48	1.38
12	m7	201	CYC	CHB-C1B	5.00	1.49	1.37
12	Z3	202	CYC	C2A-C3A	5.00	1.47	1.36
12	Z1	201	CYC	C2A-C3A	5.00	1.47	1.36
12	ZA	201	CYC	C2A-C3A	4.99	1.47	1.36
12	Z9	201	CYC	C2A-C3A	4.99	1.47	1.36
12	YA	201	CYC	CHA-C1A	4.99	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	Y9	201	CYC	CHA-C1A	4.99	1.48	1.38
12	O9	201	CYC	C3B-C2B	4.99	1.47	1.36
12	S1	201	CYC	CHA-C1A	4.99	1.48	1.38
12	S3	201	CYC	CHA-C1A	4.99	1.48	1.38
12	QA	201	CYC	C3B-C2B	4.99	1.47	1.36
12	L4	201	CYC	C2A-C3A	4.99	1.47	1.36
12	L8	201	CYC	C2A-C3A	4.99	1.47	1.36
12	C6	201	CYC	CHA-C1A	4.99	1.48	1.38
12	K7	201	CYC	CHB-C1B	4.99	1.49	1.37
12	YA	201	CYC	C3B-C2B	4.99	1.47	1.36
12	D9	202	CYC	C2A-C3A	4.99	1.47	1.36
12	Q4	201	CYC	C3B-C2B	4.99	1.47	1.36
12	IA	201	CYC	C3B-C2B	4.98	1.47	1.36
12	I9	201	CYC	C3B-C2B	4.98	1.47	1.36
12	k7	201	CYC	CHB-C1B	4.98	1.49	1.37
12	s7	201	CYC	CHB-C1B	4.98	1.49	1.37
12	B6	201	CYC	C3B-C2B	4.98	1.47	1.36
12	B2	201	CYC	C3B-C2B	4.98	1.47	1.36
12	V3	202	CYC	C3B-C2B	4.98	1.47	1.36
12	k5	1201	CYC	C3B-C2B	4.98	1.47	1.36
12	V1	202	CYC	C3B-C2B	4.98	1.47	1.36
12	DA	202	CYC	C2A-C3A	4.98	1.47	1.36
12	K3	201	CYC	C3B-C2B	4.98	1.47	1.36
12	K1	201	CYC	C3B-C2B	4.98	1.47	1.36
12	T4	201	CYC	C3B-C2B	4.98	1.47	1.36
12	T8	201	CYC	C3B-C2B	4.98	1.47	1.36
12	SA	201	CYC	C3B-C2B	4.98	1.47	1.36
12	VA	202	CYC	C2A-C3A	4.98	1.47	1.36
12	S9	201	CYC	C3B-C2B	4.98	1.47	1.36
12	V9	202	CYC	C2A-C3A	4.98	1.47	1.36
12	F4	201	CYC	C3B-C2B	4.98	1.47	1.36
12	F8	201	CYC	C3B-C2B	4.98	1.47	1.36
12	DA	202	CYC	C3B-C2B	4.98	1.47	1.36
12	Q8	201	CYC	C3B-C2B	4.98	1.47	1.36
12	D9	202	CYC	C3B-C2B	4.98	1.47	1.36
12	BA	201	CYC	C3B-C2B	4.98	1.47	1.36
12	B9	201	CYC	C3B-C2B	4.98	1.47	1.36
12	q7	201	CYC	C3B-C2B	4.98	1.47	1.36
12	OA	201	CYC	C3B-C2B	4.97	1.47	1.36
12	R1	202	CYC	C3B-C2B	4.97	1.47	1.36
12	L2	202	CYC	C2A-C3A	4.97	1.47	1.36
12	R3	202	CYC	C3B-C2B	4.97	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	K4	201	CYC	C3B-C2B	4.97	1.47	1.36
12	G2	201	CYC	C3B-C2B	4.97	1.47	1.36
12	F9	303	CYC	C3B-C2B	4.97	1.47	1.36
12	H3	202	CYC	C2A-C3A	4.97	1.47	1.36
12	T3	301	CYC	C2A-C3A	4.97	1.47	1.36
12	Y3	201	CYC	C3B-C2B	4.97	1.47	1.36
12	T1	301	CYC	C2A-C3A	4.97	1.47	1.36
12	Y1	201	CYC	C3B-C2B	4.97	1.47	1.36
12	Y7	201	CYC	CHB-C1B	4.97	1.49	1.37
12	R4	201	CYC	CHA-C1A	4.97	1.48	1.38
12	R8	201	CYC	CHA-C1A	4.97	1.48	1.38
12	D4	201	CYC	C2A-C3A	4.97	1.47	1.36
12	D8	201	CYC	C2A-C3A	4.97	1.47	1.36
12	U8	202	CYC	C2A-C3A	4.97	1.47	1.36
12	K2	201	CYC	CHA-C1A	4.97	1.48	1.38
12	UA	201	CYC	C3B-C2B	4.97	1.47	1.36
12	U9	201	CYC	C3B-C2B	4.97	1.47	1.36
12	F2	202	CYC	C3B-C2B	4.97	1.47	1.36
12	H6	202	CYC	C3B-C2B	4.97	1.47	1.36
12	P4	201	CYC	CHA-C1A	4.96	1.48	1.38
12	P8	201	CYC	CHA-C1A	4.96	1.48	1.38
12	G7	201	CYC	CHB-C1B	4.96	1.49	1.37
12	M5	201	CYC	CHB-C1B	4.96	1.49	1.37
12	M7	201	CYC	CHB-C1B	4.96	1.49	1.37
12	F2	202	CYC	C2A-C3A	4.96	1.47	1.36
12	P4	201	CYC	C3B-C2B	4.96	1.47	1.36
12	A5	201	CYC	CHB-C1B	4.96	1.49	1.37
12	G3	201	CYC	C3B-C2B	4.96	1.47	1.36
12	I2	201	CYC	C3B-C2B	4.96	1.47	1.36
12	M4	301	CYC	C3B-C2B	4.96	1.47	1.36
12	G1	201	CYC	C3B-C2B	4.96	1.47	1.36
12	BA	202	CYC	C3B-C2B	4.96	1.47	1.36
12	B9	202	CYC	C3B-C2B	4.96	1.47	1.36
12	VA	202	CYC	C3B-C2B	4.96	1.47	1.36
12	S7	201	CYC	CHB-C1B	4.96	1.49	1.37
12	H1	201	CYC	C2A-C3A	4.95	1.47	1.36
12	L6	202	CYC	C2A-C3A	4.95	1.47	1.36
12	G6	201	CYC	C3B-C2B	4.95	1.47	1.36
12	WA	201	CYC	C3B-C2B	4.95	1.47	1.36
12	C1	201	CYC	C3B-C2B	4.95	1.47	1.36
12	W9	201	CYC	C3B-C2B	4.95	1.47	1.36
12	F6	202	CYC	C2A-C3A	4.95	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	F3	202	CYC	C3B-C2B	4.95	1.47	1.36
12	I4	201	CYC	C3B-C2B	4.95	1.47	1.36
12	I8	201	CYC	C3B-C2B	4.95	1.47	1.36
12	F1	202	CYC	C3B-C2B	4.95	1.47	1.36
12	F2	201	CYC	C2A-C3A	4.95	1.47	1.36
12	C4	201	CYC	CHA-C1A	4.95	1.48	1.38
12	C8	201	CYC	CHA-C1A	4.95	1.48	1.38
12	ZA	201	CYC	C3B-C2B	4.94	1.47	1.36
12	Z9	201	CYC	C3B-C2B	4.94	1.47	1.36
12	H9	201	CYC	C3B-C2B	4.94	1.47	1.36
12	Q1	201	CYC	C3B-C2B	4.94	1.47	1.36
12	Q3	201	CYC	C3B-C2B	4.94	1.47	1.36
12	j5	1201	CYC	C3B-C2B	4.94	1.47	1.36
12	C2	201	CYC	CHA-C1A	4.94	1.48	1.38
12	F3	202	CYC	C2A-C3A	4.94	1.47	1.36
12	F1	202	CYC	C2A-C3A	4.94	1.47	1.36
12	I6	201	CYC	C3B-C2B	4.94	1.47	1.36
12	H2	202	CYC	C3B-C2B	4.94	1.47	1.36
12	Z3	202	CYC	C3B-C2B	4.94	1.47	1.36
12	Z1	201	CYC	C3B-C2B	4.94	1.47	1.36
12	U4	202	CYC	C3B-C2B	4.93	1.47	1.36
12	S5	201	CYC	CHB-C1B	4.93	1.49	1.37
12	J9	201	CYC	C3B-C2B	4.93	1.47	1.36
12	S7	201	CYC	C3B-C2B	4.93	1.47	1.36
12	P1	201	CYC	C3B-C2B	4.93	1.47	1.36
12	P3	201	CYC	C3B-C2B	4.93	1.47	1.36
12	X3	202	CYC	C3B-C2B	4.93	1.47	1.36
12	X1	202	CYC	C3B-C2B	4.93	1.47	1.36
12	D2	202	CYC	C3B-C2B	4.93	1.47	1.36
12	JA	201	CYC	C3B-C2B	4.93	1.47	1.36
12	HA	201	CYC	C3B-C2B	4.92	1.47	1.36
12	P8	201	CYC	C3B-C2B	4.92	1.47	1.36
12	AA	201	CYC	C3B-C2B	4.92	1.47	1.36
12	A9	201	CYC	C3B-C2B	4.92	1.47	1.36
12	B3	201	CYC	C3B-C2B	4.92	1.47	1.36
12	B1	201	CYC	C3B-C2B	4.92	1.47	1.36
12	L6	202	CYC	C3B-C2B	4.92	1.47	1.36
12	PA	202	CYC	C3B-C2B	4.92	1.47	1.36
12	P9	202	CYC	C3B-C2B	4.92	1.47	1.36
12	V9	202	CYC	C3B-C2B	4.92	1.47	1.36
12	C3	201	CYC	C3B-C2B	4.91	1.47	1.36
12	D6	202	CYC	C2A-C3A	4.91	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	D2	202	CYC	C2A-C3A	4.91	1.47	1.36
12	U8	202	CYC	C3B-C2B	4.91	1.47	1.36
12	D6	202	CYC	C3B-C2B	4.91	1.47	1.36
12	W4	202	CYC	C3B-C2B	4.91	1.47	1.36
12	W8	202	CYC	C3B-C2B	4.91	1.47	1.36
12	L2	202	CYC	C3B-C2B	4.91	1.47	1.36
12	D3	201	CYC	C2A-C3A	4.91	1.47	1.36
12	D1	201	CYC	C2A-C3A	4.91	1.47	1.36
12	E3	201	CYC	C3B-C2B	4.91	1.47	1.36
12	V4	201	CYC	C3B-C2B	4.91	1.47	1.36
12	E1	201	CYC	C3B-C2B	4.91	1.47	1.36
12	V8	201	CYC	C3B-C2B	4.91	1.47	1.36
12	C1	201	CYC	CHB-C1B	4.91	1.49	1.37
12	J3	201	CYC	C3B-C2B	4.90	1.47	1.36
12	J1	201	CYC	C3B-C2B	4.90	1.47	1.36
12	S4	201	CYC	C3B-C2B	4.90	1.47	1.36
12	L4	201	CYC	C3B-C2B	4.90	1.47	1.36
12	S8	201	CYC	C3B-C2B	4.90	1.47	1.36
12	L9	201	CYC	C3B-C2B	4.89	1.47	1.36
12	W3	201	CYC	C3B-C2B	4.89	1.47	1.36
12	W1	201	CYC	C3B-C2B	4.89	1.47	1.36
12	S1	201	CYC	C3B-C2B	4.89	1.47	1.36
12	S3	201	CYC	C3B-C2B	4.89	1.47	1.36
12	L8	201	CYC	C3B-C2B	4.89	1.47	1.36
12	H3	201	CYC	C3B-C2B	4.89	1.47	1.36
12	YA	201	CYC	CHB-C1B	4.89	1.49	1.37
12	Y9	201	CYC	CHB-C1B	4.89	1.49	1.37
12	C3	201	CYC	CHB-C1B	4.88	1.49	1.37
12	X4	201	CYC	CHB-C1B	4.88	1.49	1.37
12	LA	201	CYC	C3B-C2B	4.88	1.47	1.36
12	OA	201	CYC	CHB-C1B	4.88	1.49	1.37
12	O9	201	CYC	CHB-C1B	4.88	1.49	1.37
12	H4	202	CYC	C3B-C2B	4.88	1.47	1.36
12	H8	202	CYC	C3B-C2B	4.88	1.47	1.36
12	P1	202	CYC	C3B-C2B	4.88	1.47	1.36
12	P3	202	CYC	C3B-C2B	4.88	1.47	1.36
12	M8	301	CYC	C3B-C2B	4.88	1.47	1.36
12	H1	202	CYC	C3B-C2B	4.87	1.47	1.36
12	O4	202	CYC	C3B-C2B	4.87	1.47	1.36
12	O8	202	CYC	C3B-C2B	4.87	1.47	1.36
12	X8	201	CYC	CHB-C1B	4.86	1.49	1.37
12	Q1	201	CYC	CHB-C1B	4.86	1.49	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	Q3	201	CYC	CHB-C1B	4.86	1.49	1.37
12	I4	201	CYC	CHB-C1B	4.86	1.49	1.37
12	I8	201	CYC	CHB-C1B	4.86	1.49	1.37
12	A2	201	CYC	CHB-C1B	4.86	1.49	1.37
12	CA	201	CYC	CHB-C1B	4.85	1.49	1.37
12	O1	201	CYC	CHB-C1B	4.85	1.49	1.37
12	O3	201	CYC	CHB-C1B	4.85	1.49	1.37
12	I6	201	CYC	CHB-C1B	4.84	1.49	1.37
12	C9	201	CYC	CHB-C1B	4.84	1.49	1.37
12	L3	201	CYC	C3B-C2B	4.83	1.47	1.36
12	L1	201	CYC	C3B-C2B	4.83	1.47	1.36
12	Q9	201	CYC	CHB-C1B	4.83	1.49	1.37
12	A1	201	CYC	CHB-C1B	4.83	1.49	1.37
12	A3	201	CYC	CHB-C1B	4.83	1.49	1.37
12	QA	201	CYC	CHB-C1B	4.83	1.49	1.37
12	C2	201	CYC	CHB-C1B	4.83	1.49	1.37
12	K3	201	CYC	CHB-C1B	4.82	1.49	1.37
12	K1	201	CYC	CHB-C1B	4.82	1.49	1.37
12	IA	201	CYC	CHB-C1B	4.82	1.49	1.37
12	I9	201	CYC	CHB-C1B	4.82	1.49	1.37
12	K4	201	CYC	CHB-C1B	4.82	1.49	1.37
12	K8	201	CYC	CHB-C1B	4.82	1.49	1.37
12	K2	201	CYC	CHB-C1B	4.81	1.49	1.37
12	UA	201	CYC	CHB-C1B	4.81	1.49	1.37
12	U9	201	CYC	CHB-C1B	4.81	1.49	1.37
12	C6	201	CYC	CHB-C1B	4.81	1.49	1.37
12	A4	201	CYC	CHB-C1B	4.80	1.49	1.37
12	A8	201	CYC	CHB-C1B	4.80	1.49	1.37
12	EA	201	CYC	CHB-C1B	4.80	1.49	1.37
12	E9	201	CYC	CHB-C1B	4.80	1.49	1.37
12	T4	201	CYC	CHB-C1B	4.80	1.49	1.37
12	T8	201	CYC	CHB-C1B	4.80	1.49	1.37
12	G3	201	CYC	CHB-C1B	4.80	1.49	1.37
12	G1	201	CYC	CHB-C1B	4.80	1.49	1.37
12	A6	201	CYC	CHB-C1B	4.80	1.49	1.37
12	KA	201	CYC	CHB-C1B	4.80	1.49	1.37
12	K9	201	CYC	CHB-C1B	4.80	1.49	1.37
12	V4	201	CYC	CHB-C1B	4.79	1.49	1.37
12	V8	201	CYC	CHB-C1B	4.79	1.49	1.37
12	I2	201	CYC	CHB-C1B	4.79	1.49	1.37
12	GA	201	CYC	CHB-C1B	4.79	1.49	1.37
12	G9	201	CYC	CHB-C1B	4.79	1.49	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	W3	201	CYC	CHB-C1B	4.79	1.49	1.37
12	W1	201	CYC	CHB-C1B	4.79	1.49	1.37
12	WA	201	CYC	CHB-C1B	4.79	1.49	1.37
12	W9	201	CYC	CHB-C1B	4.79	1.49	1.37
12	G2	201	CYC	CHB-C1B	4.78	1.49	1.37
12	E4	201	CYC	CHB-C1B	4.78	1.49	1.37
12	E8	201	CYC	CHB-C1B	4.78	1.49	1.37
12	K6	201	CYC	CHB-C1B	4.78	1.49	1.37
12	P4	201	CYC	CHB-C1B	4.78	1.49	1.37
12	P8	201	CYC	CHB-C1B	4.78	1.49	1.37
12	L5	201	CYC	CHD-C1D	4.78	1.51	1.40
12	F2	202	CYC	CHA-C1A	4.78	1.47	1.38
12	I3	201	CYC	CHB-C1B	4.77	1.49	1.37
12	I1	201	CYC	CHB-C1B	4.77	1.49	1.37
12	G6	201	CYC	CHB-C1B	4.77	1.49	1.37
12	U3	201	CYC	CHB-C1B	4.77	1.49	1.37
12	U1	201	CYC	CHB-C1B	4.77	1.49	1.37
12	C4	201	CYC	CHB-C1B	4.76	1.49	1.37
12	C8	201	CYC	CHB-C1B	4.76	1.49	1.37
12	AA	201	CYC	CHB-C1B	4.76	1.49	1.37
12	A9	201	CYC	CHB-C1B	4.76	1.49	1.37
12	S1	201	CYC	CHB-C1B	4.76	1.49	1.37
12	S3	201	CYC	CHB-C1B	4.76	1.49	1.37
12	R4	201	CYC	CHB-C1B	4.75	1.49	1.37
12	R8	201	CYC	CHB-C1B	4.75	1.49	1.37
12	F6	202	CYC	CHA-C1A	4.75	1.47	1.38
12	N4	201	CYC	CHB-C1B	4.75	1.49	1.37
12	N8	201	CYC	CHB-C1B	4.75	1.49	1.37
12	P5	201	CYC	CHD-C1D	4.75	1.51	1.40
12	Y3	201	CYC	CHB-C1B	4.75	1.49	1.37
12	E6	201	CYC	CHB-C1B	4.75	1.49	1.37
12	Y1	201	CYC	CHB-C1B	4.75	1.49	1.37
12	V5	201	CYC	CHD-C1D	4.74	1.51	1.40
12	h7	201	CYC	CHD-C1D	4.74	1.51	1.40
12	H7	201	CYC	CHD-C1D	4.74	1.51	1.40
12	SA	201	CYC	CHB-C1B	4.74	1.49	1.37
12	S9	201	CYC	CHB-C1B	4.74	1.49	1.37
12	E2	201	CYC	CHB-C1B	4.73	1.49	1.37
12	TA	302	CYC	CHA-C1A	4.73	1.47	1.38
12	T9	302	CYC	CHA-C1A	4.73	1.47	1.38
12	E3	201	CYC	CHB-C1B	4.73	1.49	1.37
12	E1	201	CYC	CHB-C1B	4.73	1.49	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	H5	201	CYC	CHD-C1D	4.73	1.51	1.40
12	T7	201	CYC	CHD-C1D	4.72	1.51	1.40
12	B5	201	CYC	CHD-C1D	4.72	1.51	1.40
12	B7	201	CYC	CHD-C1D	4.72	1.51	1.40
12	S4	201	CYC	CHA-C1A	4.72	1.47	1.38
12	S8	201	CYC	CHA-C1A	4.72	1.47	1.38
12	D2	202	CYC	CHA-C1A	4.71	1.47	1.38
12	F5	201	CYC	CHD-C1D	4.71	1.51	1.40
12	F3	202	CYC	CHA-C1A	4.71	1.47	1.38
12	F1	202	CYC	CHA-C1A	4.71	1.47	1.38
12	J7	201	CYC	CHD-C1D	4.71	1.51	1.40
12	G4	201	CYC	CHB-C1B	4.70	1.49	1.37
12	G8	201	CYC	CHB-C1B	4.70	1.49	1.37
12	L6	202	CYC	CHA-C1A	4.70	1.47	1.38
12	D6	202	CYC	CHA-C1A	4.70	1.47	1.38
12	N7	201	CYC	CHD-C1D	4.70	1.51	1.40
12	J4	202	CYC	CHA-C1A	4.69	1.47	1.38
12	J8	202	CYC	CHA-C1A	4.69	1.47	1.38
12	V7	201	CYC	CHD-C1D	4.69	1.51	1.40
12	b7	201	CYC	CHD-C1D	4.69	1.50	1.40
12	f7	201	CYC	CHD-C1D	4.69	1.50	1.40
12	JA	201	CYC	CHA-C1A	4.69	1.47	1.38
12	J9	201	CYC	CHA-C1A	4.69	1.47	1.38
12	Z5	201	CYC	CHD-C1D	4.69	1.50	1.40
12	N5	201	CYC	CHD-C1D	4.68	1.50	1.40
12	d5	201	CYC	CHD-C1D	4.68	1.50	1.40
12	v7	201	CYC	CHD-C1D	4.68	1.50	1.40
12	k5	1204	CYC	CHD-C1D	4.68	1.50	1.40
12	D7	201	CYC	CHD-C1D	4.68	1.50	1.40
12	P7	201	CYC	CHD-C1D	4.68	1.50	1.40
12	D5	201	CYC	CHD-C1D	4.67	1.50	1.40
12	PA	202	CYC	CHA-C1A	4.67	1.47	1.38
12	P9	202	CYC	CHA-C1A	4.67	1.47	1.38
12	J5	201	CYC	CHD-C1D	4.67	1.50	1.40
12	T5	201	CYC	CHD-C1D	4.67	1.50	1.40
12	j5	1202	CYC	CHD-C1D	4.67	1.50	1.40
12	k5	1201	CYC	C2C-C1C	-4.67	1.47	1.52
12	j5	1201	CYC	C2C-C1C	-4.66	1.47	1.52
12	Y4	201	CYC	CHD-C1D	4.65	1.50	1.40
12	k5	1202	CYC	CHD-C1D	4.65	1.50	1.40
12	p7	201	CYC	CHD-C1D	4.65	1.50	1.40
12	ZA	201	CYC	CHA-C1A	4.64	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	L2	202	CYC	CHA-C1A	4.64	1.47	1.38
12	Z9	201	CYC	CHA-C1A	4.64	1.47	1.38
12	F4	201	CYC	CHA-C1A	4.64	1.47	1.38
12	F8	201	CYC	CHA-C1A	4.64	1.47	1.38
12	T3	302	CYC	CHA-C1A	4.64	1.47	1.38
12	T1	302	CYC	CHA-C1A	4.64	1.47	1.38
12	W4	202	CYC	CHD-C1D	4.63	1.50	1.40
12	W8	202	CYC	CHD-C1D	4.63	1.50	1.40
12	W4	202	CYC	CHA-C1A	4.63	1.47	1.38
12	W8	202	CYC	CHA-C1A	4.63	1.47	1.38
12	X5	201	CYC	CHD-C1D	4.63	1.50	1.40
12	X3	202	CYC	CHA-C1A	4.63	1.47	1.38
12	X1	202	CYC	CHA-C1A	4.63	1.47	1.38
12	Y8	201	CYC	CHD-C1D	4.63	1.50	1.40
12	r7	201	CYC	CHD-C1D	4.63	1.50	1.40
12	RA	202	CYC	CHA-C1A	4.63	1.47	1.38
12	R9	202	CYC	CHA-C1A	4.63	1.47	1.38
12	B3	201	CYC	CHA-C1A	4.62	1.47	1.38
12	B1	201	CYC	CHA-C1A	4.62	1.47	1.38
12	JA	201	CYC	CHD-C1D	4.62	1.50	1.40
12	J9	201	CYC	CHD-C1D	4.62	1.50	1.40
12	HA	201	CYC	CHA-C1A	4.62	1.47	1.38
12	D3	201	CYC	CHA-C1A	4.62	1.47	1.38
12	D1	201	CYC	CHA-C1A	4.62	1.47	1.38
12	R5	201	CYC	CHD-C1D	4.61	1.50	1.40
12	k5	1203	CYC	CHD-C1D	4.61	1.50	1.40
12	j7	201	CYC	CHD-C1D	4.61	1.50	1.40
12	J2	201	CYC	CHD-C1D	4.61	1.50	1.40
12	J6	201	CYC	CHD-C1D	4.61	1.50	1.40
12	F7	201	CYC	CHD-C1D	4.61	1.50	1.40
12	J6	201	CYC	CHA-C1A	4.60	1.47	1.38
12	A	201	CYC	CHD-C1D	4.60	1.50	1.40
12	Y8	201	CYC	CHB-C1B	4.60	1.48	1.37
12	Z3	202	CYC	CHA-C1A	4.60	1.47	1.38
12	Z1	201	CYC	CHA-C1A	4.60	1.47	1.38
12	Q8	201	CYC	CHA-C1A	4.60	1.47	1.38
12	D6	202	CYC	CHD-C1D	4.60	1.50	1.40
12	D2	202	CYC	CHD-C1D	4.60	1.50	1.40
12	R1	202	CYC	CHD-C1D	4.59	1.50	1.40
12	R3	202	CYC	CHD-C1D	4.59	1.50	1.40
12	L7	201	CYC	CHD-C1D	4.59	1.50	1.40
12	XA	202	CYC	CHA-C1A	4.59	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	L4	201	CYC	CHD-C1D	4.59	1.50	1.40
12	L8	201	CYC	CHD-C1D	4.59	1.50	1.40
12	R1	202	CYC	CHA-C1A	4.59	1.47	1.38
12	R3	202	CYC	CHA-C1A	4.59	1.47	1.38
12	Z	201	CYC	CHD-C1D	4.59	1.50	1.40
12	B3	201	CYC	CHD-C1D	4.59	1.50	1.40
12	B1	201	CYC	CHD-C1D	4.59	1.50	1.40
12	S4	201	CYC	CHD-C1D	4.59	1.50	1.40
12	S8	201	CYC	CHD-C1D	4.59	1.50	1.40
12	U4	202	CYC	CHA-C1A	4.58	1.47	1.38
12	H9	201	CYC	CHA-C1A	4.58	1.47	1.38
12	H3	201	CYC	CHA-C1A	4.58	1.47	1.38
12	H1	202	CYC	CHA-C1A	4.58	1.47	1.38
12	J2	201	CYC	CHA-C1A	4.58	1.47	1.38
12	d7	201	CYC	CHD-C1D	4.58	1.50	1.40
12	U8	202	CYC	CHA-C1A	4.57	1.47	1.38
12	J3	201	CYC	CHA-C1A	4.57	1.47	1.38
12	Q4	201	CYC	CHA-C1A	4.57	1.47	1.38
12	J1	201	CYC	CHA-C1A	4.57	1.47	1.38
12	VA	202	CYC	CHA-C1A	4.57	1.47	1.38
12	X9	202	CYC	CHA-C1A	4.57	1.47	1.38
12	L3	201	CYC	CHD-C1D	4.57	1.50	1.40
12	L1	201	CYC	CHD-C1D	4.57	1.50	1.40
12	V3	202	CYC	CHA-C1A	4.57	1.47	1.38
12	V1	202	CYC	CHA-C1A	4.57	1.47	1.38
12	Y4	201	CYC	CHB-C1B	4.57	1.48	1.37
12	L6	202	CYC	CHD-C1D	4.57	1.50	1.40
12	X7	201	CYC	CHD-C1D	4.57	1.50	1.40
12	O8	202	CYC	CHD-C1D	4.57	1.50	1.40
12	H4	202	CYC	CHA-C1A	4.56	1.47	1.38
12	H8	202	CYC	CHA-C1A	4.56	1.47	1.38
12	f5	201	CYC	CHD-C1D	4.56	1.50	1.40
12	P1	202	CYC	CHA-C1A	4.56	1.47	1.38
12	P3	202	CYC	CHA-C1A	4.56	1.47	1.38
12	J4	202	CYC	CHD-C1D	4.56	1.50	1.40
12	J8	202	CYC	CHD-C1D	4.56	1.50	1.40
12	J3	201	CYC	CHD-C1D	4.56	1.50	1.40
12	J1	201	CYC	CHD-C1D	4.56	1.50	1.40
12	DA	202	CYC	CHD-C1D	4.56	1.50	1.40
12	D9	202	CYC	CHD-C1D	4.56	1.50	1.40
12	D4	201	CYC	CHA-C1A	4.55	1.47	1.38
12	D8	201	CYC	CHA-C1A	4.55	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B6	201	CYC	CHA-C1A	4.55	1.47	1.38
12	B4	201	CYC	CHA-C1A	4.55	1.47	1.38
12	B8	201	CYC	CHA-C1A	4.55	1.47	1.38
12	Z3	202	CYC	CHD-C1D	4.55	1.50	1.40
12	Z1	201	CYC	CHD-C1D	4.55	1.50	1.40
12	DA	202	CYC	CHA-C1A	4.55	1.47	1.38
12	D9	202	CYC	CHA-C1A	4.55	1.47	1.38
12	b5	201	CYC	CHD-C1D	4.54	1.50	1.40
12	V9	202	CYC	CHA-C1A	4.54	1.47	1.38
12	L2	202	CYC	CHD-C1D	4.54	1.50	1.40
12	T3	302	CYC	CHD-C1D	4.54	1.50	1.40
12	T1	302	CYC	CHD-C1D	4.54	1.50	1.40
12	U4	202	CYC	CHB-C1B	4.54	1.48	1.37
12	U8	202	CYC	CHB-C1B	4.54	1.48	1.37
12	LA	201	CYC	CHA-C1A	4.54	1.47	1.38
12	L9	201	CYC	CHA-C1A	4.54	1.47	1.38
12	LA	201	CYC	CHD-C1D	4.53	1.50	1.40
12	XA	202	CYC	CHD-C1D	4.53	1.50	1.40
12	L9	201	CYC	CHD-C1D	4.53	1.50	1.40
12	X9	202	CYC	CHD-C1D	4.53	1.50	1.40
12	L3	201	CYC	CHA-C1A	4.53	1.47	1.38
12	L1	201	CYC	CHA-C1A	4.53	1.47	1.38
12	R7	201	CYC	CHD-C1D	4.53	1.50	1.40
12	D3	201	CYC	CHD-C1D	4.53	1.50	1.40
12	Q4	201	CYC	CHD-C1D	4.53	1.50	1.40
12	D1	201	CYC	CHD-C1D	4.53	1.50	1.40
12	F1	202	CYC	CHD-C1D	4.53	1.50	1.40
12	O4	202	CYC	CHD-C1D	4.53	1.50	1.40
12	ZA	201	CYC	CHD-C1D	4.53	1.50	1.40
12	Z9	201	CYC	CHD-C1D	4.53	1.50	1.40
12	H2	202	CYC	CHA-C1A	4.52	1.47	1.38
12	H6	202	CYC	CHA-C1A	4.52	1.47	1.38
12	BA	202	CYC	CHD-C1D	4.52	1.50	1.40
12	PA	202	CYC	CHD-C1D	4.52	1.50	1.40
12	P9	202	CYC	CHD-C1D	4.52	1.50	1.40
12	B9	202	CYC	CHD-C1D	4.52	1.50	1.40
12	P1	202	CYC	CHD-C1D	4.52	1.50	1.40
12	P3	202	CYC	CHD-C1D	4.52	1.50	1.40
12	F9	303	CYC	CHA-C1A	4.52	1.47	1.38
12	HA	201	CYC	CHD-C1D	4.52	1.50	1.40
12	H9	201	CYC	CHD-C1D	4.52	1.50	1.40
12	F9	302	CYC	CHA-C1A	4.52	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	F4	201	CYC	CHD-C1D	4.52	1.50	1.40
12	F8	201	CYC	CHD-C1D	4.52	1.50	1.40
12	Q8	201	CYC	CHD-C1D	4.51	1.50	1.40
12	B2	201	CYC	CHA-C1A	4.51	1.47	1.38
12	V3	202	CYC	CHB-C1B	4.51	1.48	1.37
12	V1	202	CYC	CHD-C1D	4.51	1.50	1.40
12	TA	302	CYC	CHD-C1D	4.50	1.50	1.40
12	T9	302	CYC	CHD-C1D	4.50	1.50	1.40
12	F4	201	CYC	CHB-C1B	4.50	1.48	1.37
12	F8	201	CYC	CHB-C1B	4.50	1.48	1.37
12	V3	202	CYC	CHD-C1D	4.50	1.50	1.40
12	B6	201	CYC	CHD-C1D	4.50	1.50	1.40
12	H3	201	CYC	CHB-C1B	4.50	1.48	1.37
12	H1	202	CYC	CHB-C1B	4.50	1.48	1.37
12	X3	202	CYC	CHD-C1D	4.50	1.50	1.40
12	X1	202	CYC	CHD-C1D	4.50	1.50	1.40
12	W8	202	CYC	CHB-C1B	4.50	1.48	1.37
12	L4	201	CYC	CHA-C1A	4.50	1.47	1.38
12	L8	201	CYC	CHA-C1A	4.50	1.47	1.38
12	B4	201	CYC	CHB-C1B	4.50	1.48	1.37
12	B8	201	CYC	CHB-C1B	4.50	1.48	1.37
12	VA	202	CYC	CHD-C1D	4.49	1.50	1.40
12	V9	202	CYC	CHD-C1D	4.49	1.50	1.40
12	F3	202	CYC	CHD-C1D	4.49	1.50	1.40
12	H4	202	CYC	CHD-C1D	4.49	1.50	1.40
12	H8	202	CYC	CHD-C1D	4.49	1.50	1.40
12	D4	201	CYC	CHD-C1D	4.49	1.50	1.40
12	D8	201	CYC	CHD-C1D	4.49	1.50	1.40
12	O4	202	CYC	CHA-C1A	4.49	1.47	1.38
12	O8	202	CYC	CHA-C1A	4.49	1.47	1.38
12	BA	202	CYC	CHA-C1A	4.49	1.47	1.38
12	B9	202	CYC	CHA-C1A	4.49	1.47	1.38
12	F6	202	CYC	CHD-C1D	4.48	1.50	1.40
12	F2	202	CYC	CHD-C1D	4.48	1.50	1.40
12	P1	202	CYC	CHB-C1B	4.48	1.48	1.37
12	P3	202	CYC	CHB-C1B	4.48	1.48	1.37
12	V1	202	CYC	CHB-C1B	4.48	1.48	1.37
12	RA	202	CYC	CHD-C1D	4.48	1.50	1.40
12	R9	202	CYC	CHD-C1D	4.48	1.50	1.40
12	JA	201	CYC	CHB-C1B	4.48	1.48	1.37
12	J9	201	CYC	CHB-C1B	4.48	1.48	1.37
12	Y4	201	CYC	CHA-C1A	4.48	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	Y8	201	CYC	CHA-C1A	4.48	1.47	1.38
12	Z3	202	CYC	CHB-C1B	4.48	1.48	1.37
12	Z1	201	CYC	CHB-C1B	4.48	1.48	1.37
12	W4	202	CYC	CHB-C1B	4.48	1.48	1.37
12	L3	201	CYC	CHB-C1B	4.47	1.48	1.37
12	L1	201	CYC	CHB-C1B	4.47	1.48	1.37
12	BA	202	CYC	CHB-C1B	4.47	1.48	1.37
12	B9	202	CYC	CHB-C1B	4.47	1.48	1.37
12	B6	201	CYC	CHB-C1B	4.47	1.48	1.37
12	B2	201	CYC	CHD-C1D	4.46	1.50	1.40
12	J4	202	CYC	CHB-C1B	4.46	1.48	1.37
12	J8	202	CYC	CHB-C1B	4.46	1.48	1.37
12	S4	201	CYC	CHB-C1B	4.46	1.48	1.37
12	S8	201	CYC	CHB-C1B	4.46	1.48	1.37
12	H4	202	CYC	CHB-C1B	4.45	1.48	1.37
12	H8	202	CYC	CHB-C1B	4.45	1.48	1.37
12	J2	202	CYC	CHB-C1B	4.45	1.48	1.37
12	L6	202	CYC	CHB-C1B	4.45	1.48	1.37
12	B2	201	CYC	CHB-C1B	4.45	1.48	1.37
12	B1	202	CYC	CHB-C1B	4.45	1.48	1.37
12	B4	201	CYC	CHD-C1D	4.44	1.50	1.40
12	B8	201	CYC	CHD-C1D	4.44	1.50	1.40
12	a9	901	CYC	CHB-C1B	4.44	1.48	1.37
12	L4	201	CYC	CHB-C1B	4.43	1.48	1.37
12	L8	201	CYC	CHB-C1B	4.43	1.48	1.37
12	X3	202	CYC	CHB-C1B	4.43	1.48	1.37
12	X1	202	CYC	CHB-C1B	4.43	1.48	1.37
12	VA	202	CYC	CHB-C1B	4.43	1.48	1.37
12	V9	202	CYC	CHB-C1B	4.43	1.48	1.37
12	R1	202	CYC	CHB-C1B	4.43	1.48	1.37
12	R3	202	CYC	CHB-C1B	4.43	1.48	1.37
12	H6	202	CYC	CHD-C1D	4.43	1.50	1.40
12	F3	201	CYC	CHB-C1B	4.42	1.48	1.37
12	F1	201	CYC	CHB-C1B	4.42	1.48	1.37
12	F9	302	CYC	CHD-C1D	4.42	1.50	1.40
12	LA	201	CYC	CHB-C1B	4.42	1.48	1.37
12	L9	201	CYC	CHB-C1B	4.42	1.48	1.37
12	L2	202	CYC	CHB-C1B	4.42	1.48	1.37
12	B3	202	CYC	CHB-C1B	4.42	1.48	1.37
12	P1	201	CYC	CHB-C1B	4.42	1.48	1.37
12	P3	201	CYC	CHB-C1B	4.42	1.48	1.37
12	J3	201	CYC	CHB-C1B	4.42	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	H2	202	CYC	CHB-C1B	4.42	1.48	1.37
12	H6	202	CYC	CHB-C1B	4.42	1.48	1.37
12	J1	201	CYC	CHB-C1B	4.42	1.48	1.37
12	PA	202	CYC	CHB-C1B	4.42	1.48	1.37
12	P9	202	CYC	CHB-C1B	4.42	1.48	1.37
12	B3	201	CYC	CHB-C1B	4.42	1.48	1.37
12	B1	201	CYC	CHB-C1B	4.42	1.48	1.37
12	L4	202	CYC	CHB-C1B	4.42	1.48	1.37
12	H3	201	CYC	CHD-C1D	4.42	1.50	1.40
12	H1	202	CYC	CHD-C1D	4.42	1.50	1.40
12	F4	202	CYC	CHB-C1B	4.41	1.48	1.37
12	j5	1201	CYC	CHD-C1D	4.41	1.50	1.40
12	F9	303	CYC	CHB-C1B	4.41	1.48	1.37
12	H9	202	CYC	CHB-C1B	4.41	1.48	1.37
12	DA	202	CYC	CHB-C1B	4.40	1.48	1.37
12	D9	202	CYC	CHB-C1B	4.40	1.48	1.37
12	D4	201	CYC	CHB-C1B	4.40	1.48	1.37
12	D8	201	CYC	CHB-C1B	4.40	1.48	1.37
12	F3	202	CYC	CHB-C1B	4.40	1.48	1.37
12	F1	202	CYC	CHB-C1B	4.40	1.48	1.37
12	U4	201	CYC	CHB-C1B	4.40	1.48	1.37
12	U8	201	CYC	CHB-C1B	4.40	1.48	1.37
12	J6	202	CYC	CHB-C1B	4.40	1.48	1.37
12	U4	202	CYC	CHD-C1D	4.40	1.50	1.40
12	U8	202	CYC	CHD-C1D	4.40	1.50	1.40
12	D3	201	CYC	CHB-C1B	4.40	1.48	1.37
12	M4	301	CYC	CHB-C1B	4.40	1.48	1.37
12	F9	302	CYC	CHB-C1B	4.40	1.48	1.37
12	F9	303	CYC	CHD-C1D	4.40	1.50	1.40
12	B4	202	CYC	CHD-C1D	4.40	1.50	1.40
12	Q4	201	CYC	CHB-C1B	4.39	1.48	1.37
12	k5	1201	CYC	CHD-C1D	4.39	1.50	1.40
12	Z4	301	CYC	CHB-C1B	4.39	1.48	1.37
12	V3	201	CYC	CHD-C1D	4.39	1.50	1.40
12	Q8	201	CYC	CHB-C1B	4.39	1.48	1.37
12	X3	201	CYC	CHD-C1D	4.39	1.50	1.40
12	X1	201	CYC	CHD-C1D	4.39	1.50	1.40
12	W4	201	CYC	CHB-C1B	4.39	1.48	1.37
12	W8	201	CYC	CHB-C1B	4.39	1.48	1.37
12	HA	202	CYC	CHB-C1B	4.39	1.48	1.37
12	F8	202	CYC	CHB-C1B	4.38	1.48	1.37
12	F6	201	CYC	CHB-C1B	4.38	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	ZA	201	CYC	CHB-C1B	4.38	1.48	1.37
12	Z9	201	CYC	CHB-C1B	4.38	1.48	1.37
12	J6	201	CYC	CHB-C1B	4.38	1.48	1.37
12	XA	202	CYC	CHB-C1B	4.38	1.48	1.37
12	X9	202	CYC	CHB-C1B	4.38	1.48	1.37
12	Z8	301	CYC	CHD-C1D	4.38	1.50	1.40
12	V1	201	CYC	CHD-C1D	4.38	1.50	1.40
12	D1	201	CYC	CHB-C1B	4.38	1.48	1.37
12	T3	301	CYC	CHB-C1B	4.37	1.48	1.37
12	T1	301	CYC	CHB-C1B	4.37	1.48	1.37
12	B8	202	CYC	CHD-C1D	4.37	1.50	1.40
12	R1	201	CYC	CHB-C1B	4.37	1.48	1.37
12	R3	201	CYC	CHB-C1B	4.37	1.48	1.37
12	F2	201	CYC	CHB-C1B	4.37	1.48	1.37
12	O4	201	CYC	CHD-C1D	4.37	1.50	1.40
12	O8	201	CYC	CHD-C1D	4.37	1.50	1.40
12	Z3	201	CYC	CHB-C1B	4.37	1.48	1.37
12	Z1	202	CYC	CHB-C1B	4.37	1.48	1.37
12	F6	202	CYC	CHB-C1B	4.37	1.48	1.37
12	aA	902	CYC	CHB-C1B	4.37	1.48	1.37
12	TA	302	CYC	CHB-C1B	4.37	1.48	1.37
12	H2	202	CYC	CHD-C1D	4.37	1.50	1.40
12	RA	202	CYC	CHB-C1B	4.36	1.48	1.37
12	R9	202	CYC	CHB-C1B	4.36	1.48	1.37
12	H4	201	CYC	CHB-C1B	4.36	1.48	1.37
12	H8	201	CYC	CHB-C1B	4.36	1.48	1.37
12	H2	201	CYC	CHB-C1B	4.36	1.48	1.37
12	H6	201	CYC	CHB-C1B	4.36	1.48	1.37
12	H1	201	CYC	CHD-C1D	4.36	1.50	1.40
12	J2	201	CYC	CHB-C1B	4.36	1.48	1.37
12	D6	202	CYC	CHB-C1B	4.36	1.48	1.37
12	D2	202	CYC	CHB-C1B	4.36	1.48	1.37
12	J4	201	CYC	CHB-C1B	4.36	1.48	1.37
12	J8	201	CYC	CHB-C1B	4.36	1.48	1.37
12	P1	201	CYC	CHD-C1D	4.36	1.50	1.40
12	P3	201	CYC	CHD-C1D	4.36	1.50	1.40
12	L6	201	CYC	CHB-C1B	4.35	1.48	1.37
12	M8	301	CYC	CHB-C1B	4.35	1.48	1.37
12	U4	201	CYC	CHD-C1D	4.35	1.50	1.40
12	U8	201	CYC	CHD-C1D	4.35	1.50	1.40
12	TA	301	CYC	CHB-C1B	4.35	1.48	1.37
12	T9	301	CYC	CHB-C1B	4.35	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	Z8	301	CYC	CHB-C1B	4.35	1.48	1.37
12	B4	202	CYC	CHB-C1B	4.35	1.48	1.37
12	HA	201	CYC	CHB-C1B	4.35	1.48	1.37
12	O4	201	CYC	CHB-C1B	4.35	1.48	1.37
12	O8	201	CYC	CHB-C1B	4.35	1.48	1.37
12	H9	201	CYC	CHB-C1B	4.35	1.48	1.37
12	T9	302	CYC	CHB-C1B	4.35	1.48	1.37
12	FA	301	CYC	CHB-C1B	4.35	1.48	1.37
12	F9	301	CYC	CHB-C1B	4.35	1.48	1.37
12	PA	201	CYC	CHD-C1D	4.35	1.50	1.40
12	P9	201	CYC	CHD-C1D	4.35	1.50	1.40
12	H3	202	CYC	CHD-C1D	4.34	1.50	1.40
12	PA	201	CYC	CHB-C1B	4.34	1.48	1.37
12	P9	201	CYC	CHB-C1B	4.34	1.48	1.37
12	R9	201	CYC	CHB-C1B	4.34	1.48	1.37
12	ZA	202	CYC	CHB-C1B	4.34	1.48	1.37
12	D4	202	CYC	CHB-C1B	4.34	1.48	1.37
12	D8	202	CYC	CHB-C1B	4.34	1.48	1.37
12	F2	202	CYC	CHB-C1B	4.34	1.48	1.37
12	L3	202	CYC	CHB-C1B	4.34	1.48	1.37
12	Z4	301	CYC	CHD-C1D	4.34	1.50	1.40
12	N2	101	CYC	CHB-C1B	4.34	1.48	1.37
12	O4	202	CYC	CHB-C1B	4.34	1.48	1.37
12	N6	101	CYC	CHB-C1B	4.34	1.48	1.37
12	O8	202	CYC	CHB-C1B	4.34	1.48	1.37
12	LA	202	CYC	CHB-C1B	4.33	1.48	1.37
12	L9	202	CYC	CHB-C1B	4.33	1.48	1.37
12	H1	201	CYC	CHB-C1B	4.33	1.48	1.37
12	N2	101	CYC	CHD-C1D	4.33	1.50	1.40
12	B8	202	CYC	CHB-C1B	4.33	1.48	1.37
12	L2	201	CYC	CHD-C1D	4.33	1.50	1.40
12	BA	201	CYC	CHB-C1B	4.33	1.48	1.37
12	B9	201	CYC	CHB-C1B	4.33	1.48	1.37
12	X3	201	CYC	CHB-C1B	4.33	1.48	1.37
12	X1	201	CYC	CHB-C1B	4.33	1.48	1.37
12	BA	201	CYC	CHD-C1D	4.33	1.50	1.40
12	B9	201	CYC	CHD-C1D	4.33	1.50	1.40
12	S4	202	CYC	CHB-C1B	4.32	1.48	1.37
12	L6	201	CYC	CHD-C1D	4.32	1.50	1.40
12	B1	202	CYC	CHD-C1D	4.32	1.50	1.40
12	RA	201	CYC	CHB-C1B	4.32	1.48	1.37
12	L2	201	CYC	CHB-C1B	4.32	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	H3	202	CYC	CHB-C1B	4.32	1.48	1.37
12	FA	301	CYC	CHD-C1D	4.32	1.50	1.40
12	F9	301	CYC	CHD-C1D	4.32	1.50	1.40
12	D3	202	CYC	CHD-C1D	4.31	1.50	1.40
12	D1	202	CYC	CHD-C1D	4.31	1.50	1.40
12	R9	201	CYC	CHD-C1D	4.31	1.50	1.40
12	J3	202	CYC	CHD-C1D	4.31	1.50	1.40
12	aA	901	CYC	CHD-C1D	4.31	1.50	1.40
12	JA	202	CYC	CHB-C1B	4.31	1.48	1.37
12	J9	202	CYC	CHB-C1B	4.31	1.48	1.37
12	DA	201	CYC	CHB-C1B	4.31	1.48	1.37
12	D9	201	CYC	CHB-C1B	4.31	1.48	1.37
12	T3	302	CYC	CHB-C1B	4.31	1.48	1.37
12	T1	302	CYC	CHB-C1B	4.31	1.48	1.37
12	Z9	202	CYC	CHB-C1B	4.31	1.48	1.37
12	D6	201	CYC	CHB-C1B	4.31	1.48	1.37
12	D2	201	CYC	CHD-C1D	4.30	1.50	1.40
12	N6	101	CYC	CHD-C1D	4.30	1.50	1.40
12	XA	201	CYC	CHB-C1B	4.29	1.48	1.37
12	XA	201	CYC	CHD-C1D	4.29	1.50	1.40
12	B3	202	CYC	CHD-C1D	4.29	1.50	1.40
12	X9	201	CYC	CHD-C1D	4.29	1.50	1.40
12	D4	202	CYC	CHD-C1D	4.29	1.50	1.40
12	D8	202	CYC	CHD-C1D	4.29	1.50	1.40
12	M8	302	CYC	CHB-C1B	4.29	1.48	1.37
12	F4	202	CYC	CHD-C1D	4.29	1.50	1.40
12	F8	202	CYC	CHD-C1D	4.29	1.50	1.40
12	F3	201	CYC	CHD-C1D	4.28	1.50	1.40
12	F1	201	CYC	CHD-C1D	4.28	1.50	1.40
12	F2	201	CYC	CHD-C1D	4.28	1.50	1.40
12	V3	201	CYC	CHB-C1B	4.28	1.48	1.37
12	RA	201	CYC	CHD-C1D	4.28	1.50	1.40
12	JA	202	CYC	CHD-C1D	4.28	1.50	1.40
12	J9	202	CYC	CHD-C1D	4.28	1.50	1.40
12	W8	201	CYC	CHD-C1D	4.27	1.50	1.40
12	C4	201	CYC	CHD-C1D	4.27	1.50	1.40
12	C8	201	CYC	CHD-C1D	4.27	1.50	1.40
12	R1	201	CYC	CHD-C1D	4.27	1.50	1.40
12	R3	201	CYC	CHD-C1D	4.27	1.50	1.40
12	Z9	202	CYC	CHD-C1D	4.27	1.50	1.40
12	VA	201	CYC	CHB-C1B	4.27	1.48	1.37
12	aA	901	CYC	CHB-C1B	4.27	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	V1	201	CYC	CHB-C1B	4.26	1.48	1.37
12	ZA	202	CYC	CHD-C1D	4.26	1.50	1.40
12	LA	202	CYC	CHD-C1D	4.26	1.50	1.40
12	L9	202	CYC	CHD-C1D	4.26	1.50	1.40
12	D3	202	CYC	CHB-C1B	4.26	1.48	1.37
12	D1	202	CYC	CHB-C1B	4.26	1.48	1.37
12	W4	201	CYC	CHD-C1D	4.26	1.50	1.40
12	N4	201	CYC	CHD-C1D	4.26	1.50	1.40
12	N8	201	CYC	CHD-C1D	4.26	1.50	1.40
12	J3	202	CYC	CHB-C1B	4.26	1.48	1.37
12	D6	201	CYC	CHD-C1D	4.26	1.50	1.40
12	T3	301	CYC	CHD-C1D	4.26	1.50	1.40
12	T1	301	CYC	CHD-C1D	4.26	1.50	1.40
12	X9	201	CYC	CHB-C1B	4.26	1.48	1.37
12	L3	202	CYC	CHD-C1D	4.26	1.50	1.40
12	aA	902	CYC	CHD-C1D	4.26	1.50	1.40
12	Z3	201	CYC	CHD-C1D	4.25	1.50	1.40
12	Z1	202	CYC	CHD-C1D	4.25	1.50	1.40
12	VA	201	CYC	CHD-C1D	4.25	1.49	1.40
12	V9	201	CYC	CHD-C1D	4.25	1.49	1.40
12	OA	201	CYC	CHD-C1D	4.25	1.49	1.40
12	D2	201	CYC	CHB-C1B	4.25	1.48	1.37
12	K4	201	CYC	CHD-C1D	4.25	1.49	1.40
12	K8	201	CYC	CHD-C1D	4.25	1.49	1.40
12	QA	201	CYC	CHD-C1D	4.25	1.49	1.40
12	H4	201	CYC	CHD-C1D	4.25	1.49	1.40
12	H8	201	CYC	CHD-C1D	4.25	1.49	1.40
12	H2	201	CYC	CHD-C1D	4.25	1.49	1.40
12	F6	201	CYC	CHD-C1D	4.24	1.49	1.40
12	a9	901	CYC	CHD-C1D	4.24	1.49	1.40
12	M8	302	CYC	CHD-C1D	4.24	1.49	1.40
12	O9	201	CYC	CHD-C1D	4.24	1.49	1.40
12	R4	201	CYC	CHD-C1D	4.24	1.49	1.40
12	R8	201	CYC	CHD-C1D	4.24	1.49	1.40
12	K2	201	CYC	CHD-C1D	4.24	1.49	1.40
12	K6	201	CYC	CHD-C1D	4.24	1.49	1.40
12	S4	202	CYC	CHD-C1D	4.23	1.49	1.40
12	U5	201	CYC	CHA-C4D	4.23	1.49	1.40
12	A1	201	CYC	CHD-C1D	4.23	1.49	1.40
12	A3	201	CYC	CHD-C1D	4.23	1.49	1.40
12	V9	201	CYC	CHB-C1B	4.23	1.48	1.37
12	H6	201	CYC	CHD-C1D	4.23	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	M8	301	CYC	CHD-C1D	4.23	1.49	1.40
12	YA	201	CYC	CHD-C1D	4.23	1.49	1.40
12	Y9	201	CYC	CHD-C1D	4.23	1.49	1.40
12	M4	301	CYC	CHD-C1D	4.22	1.49	1.40
12	Q9	201	CYC	CHD-C1D	4.22	1.49	1.40
12	L4	202	CYC	CHD-C1D	4.22	1.49	1.40
12	J2	202	CYC	CHD-C1D	4.22	1.49	1.40
12	J6	202	CYC	CHD-C1D	4.22	1.49	1.40
12	Q1	201	CYC	CHD-C1D	4.21	1.49	1.40
12	Q3	201	CYC	CHD-C1D	4.21	1.49	1.40
12	AA	201	CYC	CHD-C1D	4.21	1.49	1.40
12	J4	201	CYC	CHD-C1D	4.21	1.49	1.40
12	A9	201	CYC	CHD-C1D	4.21	1.49	1.40
12	G3	201	CYC	CHD-C1D	4.21	1.49	1.40
12	G1	201	CYC	CHD-C1D	4.21	1.49	1.40
12	O5	201	CYC	CHA-C4D	4.20	1.49	1.40
12	O1	201	CYC	CHD-C1D	4.20	1.49	1.40
12	C6	201	CYC	CHD-C1D	4.20	1.49	1.40
12	P8	201	CYC	CHD-C1D	4.20	1.49	1.40
12	G4	201	CYC	CHD-C1D	4.20	1.49	1.40
12	G8	201	CYC	CHD-C1D	4.20	1.49	1.40
12	C2	201	CYC	CHD-C1D	4.20	1.49	1.40
12	T9	301	CYC	CHD-C1D	4.19	1.49	1.40
12	TA	301	CYC	CHD-C1D	4.19	1.49	1.40
12	J8	201	CYC	CHD-C1D	4.19	1.49	1.40
12	SA	201	CYC	CHD-C1D	4.19	1.49	1.40
12	S9	201	CYC	CHD-C1D	4.19	1.49	1.40
12	KA	201	CYC	CHD-C1D	4.19	1.49	1.40
12	K9	201	CYC	CHD-C1D	4.19	1.49	1.40
12	V4	201	CYC	CHD-C1D	4.18	1.49	1.40
12	V8	201	CYC	CHD-C1D	4.18	1.49	1.40
12	E2	201	CYC	CHD-C1D	4.18	1.49	1.40
12	IA	201	CYC	CHD-C1D	4.18	1.49	1.40
12	W3	201	CYC	CHD-C1D	4.18	1.49	1.40
12	X4	201	CYC	CHD-C1D	4.18	1.49	1.40
12	G5	201	CYC	CHA-C4D	4.18	1.49	1.40
12	X8	201	CYC	CHD-C1D	4.18	1.49	1.40
12	I9	201	CYC	CHD-C1D	4.18	1.49	1.40
12	W1	201	CYC	CHD-C1D	4.18	1.49	1.40
12	E5	201	CYC	CHA-C4D	4.18	1.49	1.40
12	O3	201	CYC	CHD-C1D	4.18	1.49	1.40
12	DA	201	CYC	CHD-C1D	4.18	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A4	201	CYC	CHD-C1D	4.18	1.49	1.40
12	A8	201	CYC	CHD-C1D	4.18	1.49	1.40
12	D9	201	CYC	CHD-C1D	4.18	1.49	1.40
12	U3	201	CYC	CHD-C1D	4.17	1.49	1.40
12	U1	201	CYC	CHD-C1D	4.17	1.49	1.40
12	E6	201	CYC	CHD-C1D	4.17	1.49	1.40
12	H9	202	CYC	CHD-C1D	4.17	1.49	1.40
12	EA	201	CYC	CHD-C1D	4.17	1.49	1.40
12	P4	201	CYC	CHD-C1D	4.17	1.49	1.40
12	E9	201	CYC	CHD-C1D	4.17	1.49	1.40
12	GA	201	CYC	CHD-C1D	4.17	1.49	1.40
12	G9	201	CYC	CHD-C1D	4.17	1.49	1.40
12	U7	201	CYC	CHA-C4D	4.17	1.49	1.40
12	HA	202	CYC	CHD-C1D	4.17	1.49	1.40
12	I3	201	CYC	CHD-C1D	4.17	1.49	1.40
12	I1	201	CYC	CHD-C1D	4.17	1.49	1.40
12	U9	201	CYC	CHD-C1D	4.16	1.49	1.40
12	A5	201	CYC	CHA-C4D	4.16	1.49	1.40
12	C5	201	CYC	CHA-C4D	4.16	1.49	1.40
12	G2	201	CYC	CHD-C1D	4.16	1.49	1.40
12	DA	201	CYC	CHA-C4D	4.16	1.49	1.40
12	D9	201	CYC	CHA-C4D	4.16	1.49	1.40
12	A6	201	CYC	CHD-C1D	4.16	1.49	1.40
12	C1	201	CYC	CHD-C1D	4.16	1.49	1.40
12	o7	201	CYC	CHA-C4D	4.15	1.49	1.40
12	I5	201	CYC	CHA-C4D	4.15	1.49	1.40
12	CA	201	CYC	CHD-C1D	4.15	1.49	1.40
12	T4	201	CYC	CHD-C1D	4.15	1.49	1.40
12	T8	201	CYC	CHD-C1D	4.15	1.49	1.40
12	q7	201	CYC	CHA-C4D	4.15	1.49	1.40
12	UA	201	CYC	CHD-C1D	4.15	1.49	1.40
12	K5	201	CYC	CHA-C4D	4.15	1.49	1.40
12	WA	201	CYC	CHD-C1D	4.14	1.49	1.40
12	C3	201	CYC	CHD-C1D	4.14	1.49	1.40
12	W9	201	CYC	CHD-C1D	4.14	1.49	1.40
12	G6	201	CYC	CHD-C1D	4.14	1.49	1.40
12	a5	201	CYC	CHA-C4D	4.14	1.49	1.40
12	K7	201	CYC	CHA-C4D	4.14	1.49	1.40
12	K3	201	CYC	CHD-C1D	4.14	1.49	1.40
12	A7	201	CYC	CHA-C4D	4.14	1.49	1.40
12	K1	201	CYC	CHD-C1D	4.14	1.49	1.40
12	I6	201	CYC	CHD-C1D	4.14	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A2	201	CYC	CHD-C1D	4.13	1.49	1.40
12	I2	201	CYC	CHD-C1D	4.13	1.49	1.40
12	C9	201	CYC	CHD-C1D	4.13	1.49	1.40
12	e5	201	CYC	CHA-C4D	4.13	1.49	1.40
12	W5	201	CYC	CHA-C4D	4.13	1.49	1.40
12	M4	301	CYC	CHA-C4D	4.12	1.49	1.40
12	C7	201	CYC	CHA-C4D	4.12	1.49	1.40
12	g7	201	CYC	CHA-C4D	4.12	1.49	1.40
12	Y3	201	CYC	CHD-C1D	4.12	1.49	1.40
12	Y1	201	CYC	CHD-C1D	4.12	1.49	1.40
12	G8	201	CYC	CHB-C4A	4.12	1.50	1.40
12	u7	201	CYC	CHA-C4D	4.12	1.49	1.40
12	k7	201	CYC	CHA-C4D	4.12	1.49	1.40
12	Q5	201	CYC	CHA-C4D	4.11	1.49	1.40
12	G7	201	CYC	CHA-C4D	4.11	1.49	1.40
12	Q7	201	CYC	CHA-C4D	4.11	1.49	1.40
12	K3	201	CYC	CHB-C4A	4.11	1.50	1.40
12	K1	201	CYC	CHB-C4A	4.11	1.50	1.40
12	S1	201	CYC	CHD-C1D	4.11	1.49	1.40
12	E4	201	CYC	CHD-C1D	4.11	1.49	1.40
12	E8	201	CYC	CHD-C1D	4.11	1.49	1.40
12	M8	301	CYC	CHA-C4D	4.10	1.49	1.40
12	G4	201	CYC	CHB-C4A	4.10	1.50	1.40
12	K4	201	CYC	CHB-C4A	4.10	1.50	1.40
12	K8	201	CYC	CHB-C4A	4.10	1.50	1.40
12	E7	201	CYC	CHA-C4D	4.09	1.49	1.40
12	YA	201	CYC	CHB-C4A	4.09	1.50	1.40
12	Y9	201	CYC	CHB-C4A	4.09	1.50	1.40
12	U1	201	CYC	CHB-C4A	4.09	1.50	1.40
12	S3	201	CYC	CHD-C1D	4.09	1.49	1.40
12	I4	201	CYC	CHD-C1D	4.09	1.49	1.40
12	I8	201	CYC	CHD-C1D	4.09	1.49	1.40
12	I7	201	CYC	CHA-C4D	4.09	1.49	1.40
12	O7	201	CYC	CHA-C4D	4.09	1.49	1.40
12	a7	201	CYC	CHA-C4D	4.09	1.49	1.40
12	R1	201	CYC	CHA-C4D	4.08	1.49	1.40
12	R3	201	CYC	CHA-C4D	4.08	1.49	1.40
12	S7	201	CYC	CHA-C4D	4.08	1.49	1.40
12	A1	201	CYC	CHB-C4A	4.08	1.50	1.40
12	A3	201	CYC	CHB-C4A	4.08	1.50	1.40
12	Z8	301	CYC	CHA-C4D	4.08	1.49	1.40
12	Y3	201	CYC	CHB-C4A	4.08	1.50	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	Y1	201	CYC	CHB-C4A	4.08	1.50	1.40
12	N4	201	CYC	CHB-C4A	4.08	1.50	1.40
12	N8	201	CYC	CHB-C4A	4.08	1.50	1.40
12	E1	201	CYC	CHD-C1D	4.08	1.49	1.40
12	K2	201	CYC	CHB-C4A	4.08	1.50	1.40
12	K6	201	CYC	CHB-C4A	4.08	1.50	1.40
12	W7	201	CYC	CHA-C4D	4.08	1.49	1.40
12	U3	201	CYC	CHB-C4A	4.08	1.50	1.40
12	G3	201	CYC	CHB-C4A	4.07	1.50	1.40
12	G1	201	CYC	CHB-C4A	4.07	1.50	1.40
12	C9	201	CYC	CHB-C4A	4.07	1.50	1.40
12	e7	201	CYC	CHA-C4D	4.07	1.49	1.40
12	S5	201	CYC	CHA-C4D	4.07	1.49	1.40
12	T4	201	CYC	CHB-C4A	4.07	1.50	1.40
12	T8	201	CYC	CHB-C4A	4.07	1.50	1.40
12	N2	101	CYC	CHA-C4D	4.06	1.49	1.40
12	E3	201	CYC	CHD-C1D	4.06	1.49	1.40
12	S1	201	CYC	CHB-C4A	4.06	1.50	1.40
12	S3	201	CYC	CHB-C4A	4.06	1.50	1.40
12	N6	101	CYC	CHA-C4D	4.05	1.49	1.40
12	KA	201	CYC	CHB-C4A	4.05	1.50	1.40
12	K9	201	CYC	CHB-C4A	4.05	1.50	1.40
12	E4	201	CYC	CHB-C4A	4.05	1.50	1.40
12	E8	201	CYC	CHB-C4A	4.05	1.50	1.40
12	AA	201	CYC	CHB-C4A	4.05	1.50	1.40
12	CA	201	CYC	CHB-C4A	4.05	1.50	1.40
12	m7	201	CYC	CHA-C4D	4.04	1.49	1.40
12	SA	201	CYC	CHB-C4A	4.04	1.50	1.40
12	S9	201	CYC	CHB-C4A	4.04	1.50	1.40
12	P1	201	CYC	CHA-C4D	4.04	1.49	1.40
12	P3	201	CYC	CHA-C4D	4.04	1.49	1.40
12	Y7	201	CYC	CHA-C4D	4.04	1.49	1.40
12	R4	201	CYC	CHB-C4A	4.04	1.49	1.40
12	E2	201	CYC	CHB-C4A	4.04	1.49	1.40
12	Q9	201	CYC	CHB-C4A	4.04	1.49	1.40
12	M7	201	CYC	CHA-C4D	4.04	1.49	1.40
12	F2	201	CYC	CHA-C4D	4.04	1.49	1.40
12	D6	201	CYC	CHA-C4D	4.04	1.49	1.40
12	D2	201	CYC	CHA-C4D	4.04	1.49	1.40
12	M5	201	CYC	CHA-C4D	4.03	1.49	1.40
12	O1	201	CYC	CHB-C4A	4.03	1.49	1.40
12	O3	201	CYC	CHB-C4A	4.03	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	D3	202	CYC	CHA-C4D	4.03	1.49	1.40
12	D1	202	CYC	CHA-C4D	4.03	1.49	1.40
12	j5	1201	CYC	CHB-C4A	4.03	1.49	1.40
12	k5	1201	CYC	CHB-C4A	4.03	1.49	1.40
12	UA	201	CYC	CHB-C4A	4.03	1.49	1.40
12	U9	201	CYC	CHB-C4A	4.03	1.49	1.40
12	B1	202	CYC	CHA-C4D	4.03	1.49	1.40
12	g7	201	CYC	CHD-C1D	4.03	1.49	1.40
12	LA	202	CYC	CHA-C4D	4.03	1.49	1.40
12	L9	202	CYC	CHA-C4D	4.03	1.49	1.40
12	E6	201	CYC	CHB-C4A	4.03	1.49	1.40
12	QA	201	CYC	CHB-C4A	4.02	1.49	1.40
12	R8	201	CYC	CHB-C4A	4.02	1.49	1.40
12	Z4	301	CYC	CHA-C4D	4.02	1.49	1.40
12	s7	201	CYC	CHA-C4D	4.02	1.49	1.40
12	A6	201	CYC	CHB-C4A	4.02	1.49	1.40
12	B3	202	CYC	CHA-C4D	4.02	1.49	1.40
12	A9	201	CYC	CHB-C4A	4.02	1.49	1.40
12	G2	201	CYC	CHB-C4A	4.01	1.49	1.40
12	U4	201	CYC	CHA-C4D	4.01	1.49	1.40
12	U8	201	CYC	CHA-C4D	4.01	1.49	1.40
12	C2	201	CYC	CHB-C4A	4.01	1.49	1.40
12	H1	201	CYC	CHA-C4D	4.01	1.49	1.40
12	W4	201	CYC	CHA-C4D	4.01	1.49	1.40
12	W8	201	CYC	CHA-C4D	4.01	1.49	1.40
12	A4	201	CYC	CHB-C4A	4.01	1.49	1.40
12	A8	201	CYC	CHB-C4A	4.01	1.49	1.40
12	T3	301	CYC	CHA-C4D	4.01	1.49	1.40
12	T1	301	CYC	CHA-C4D	4.01	1.49	1.40
12	B8	202	CYC	CHA-C4D	4.01	1.49	1.40
12	H3	202	CYC	CHA-C4D	4.00	1.49	1.40
12	E7	201	CYC	CHD-C1D	4.00	1.49	1.40
12	VA	201	CYC	CHA-C4D	4.00	1.49	1.40
12	V9	201	CYC	CHA-C4D	4.00	1.49	1.40
12	C7	201	CYC	CHD-C1D	4.00	1.49	1.40
12	H2	201	CYC	CHA-C4D	4.00	1.49	1.40
12	E3	201	CYC	CHB-C4A	4.00	1.49	1.40
12	E1	201	CYC	CHB-C4A	4.00	1.49	1.40
12	a7	201	CYC	CHD-C1D	4.00	1.49	1.40
12	S5	201	CYC	CHD-C1D	3.99	1.49	1.40
12	C6	201	CYC	CHB-C4A	3.99	1.49	1.40
12	GA	201	CYC	CHB-C4A	3.99	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	IA	201	CYC	CHB-C4A	3.99	1.49	1.40
12	I9	201	CYC	CHB-C4A	3.99	1.49	1.40
12	G6	201	CYC	CHB-C4A	3.99	1.49	1.40
12	Q5	201	CYC	CHD-C1D	3.99	1.49	1.40
12	A2	201	CYC	CHB-C4A	3.99	1.49	1.40
12	O4	201	CYC	CHA-C4D	3.98	1.49	1.40
12	O8	201	CYC	CHA-C4D	3.98	1.49	1.40
12	BA	201	CYC	CHA-C4D	3.98	1.49	1.40
12	i7	201	CYC	CHA-C4D	3.98	1.49	1.40
12	B9	201	CYC	CHA-C4D	3.98	1.49	1.40
12	H6	201	CYC	CHA-C4D	3.98	1.49	1.40
12	Y5	201	CYC	CHA-C4D	3.98	1.49	1.40
12	F3	201	CYC	CHA-C4D	3.97	1.49	1.40
12	F1	201	CYC	CHA-C4D	3.97	1.49	1.40
12	C8	201	CYC	CHB-C4A	3.97	1.49	1.40
12	FA	301	CYC	CHA-C4D	3.97	1.49	1.40
12	RA	201	CYC	CHA-C4D	3.97	1.49	1.40
12	c5	201	CYC	CHA-C4D	3.97	1.49	1.40
12	F9	301	CYC	CHA-C4D	3.97	1.49	1.40
12	R9	201	CYC	CHA-C4D	3.97	1.49	1.40
12	H4	201	CYC	CHA-C4D	3.97	1.49	1.40
12	H8	201	CYC	CHA-C4D	3.97	1.49	1.40
12	P4	201	CYC	CHB-C4A	3.97	1.49	1.40
12	P8	201	CYC	CHB-C4A	3.97	1.49	1.40
12	o7	201	CYC	CHD-C1D	3.97	1.49	1.40
12	H9	202	CYC	CHA-C4D	3.97	1.49	1.40
12	K7	201	CYC	CHD-C1D	3.97	1.49	1.40
12	U5	201	CYC	CHD-C1D	3.96	1.49	1.40
12	j5	1202	CYC	CHB-C4A	3.96	1.49	1.40
12	PA	201	CYC	CHA-C4D	3.96	1.49	1.40
12	P9	201	CYC	CHA-C4D	3.96	1.49	1.40
12	Z	201	CYC	CHB-C4A	3.96	1.49	1.40
12	OA	201	CYC	CHB-C4A	3.96	1.49	1.40
12	O9	201	CYC	CHB-C4A	3.96	1.49	1.40
12	G9	201	CYC	CHB-C4A	3.96	1.49	1.40
12	L4	202	CYC	CHA-C4D	3.96	1.49	1.40
12	P7	201	CYC	CHB-C4A	3.96	1.49	1.40
12	J9	202	CYC	CHA-C4D	3.96	1.49	1.40
12	k5	1204	CYC	CHB-C4A	3.96	1.49	1.40
12	B4	202	CYC	CHA-C4D	3.96	1.49	1.40
12	C4	201	CYC	CHB-C4A	3.96	1.49	1.40
12	HA	202	CYC	CHA-C4D	3.96	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	E5	201	CYC	CHD-C1D	3.96	1.49	1.40
12	I7	201	CYC	CHD-C1D	3.96	1.49	1.40
12	Z3	201	CYC	CHA-C4D	3.96	1.49	1.40
12	Z1	202	CYC	CHA-C4D	3.96	1.49	1.40
12	X4	201	CYC	CHB-C4A	3.96	1.49	1.40
12	X8	201	CYC	CHB-C4A	3.96	1.49	1.40
12	K5	201	CYC	CHD-C1D	3.95	1.49	1.40
12	a9	901	CYC	CHA-C4D	3.95	1.49	1.40
12	A	201	CYC	CHB-C4A	3.95	1.49	1.40
12	V7	201	CYC	CHB-C4A	3.95	1.49	1.40
12	XA	201	CYC	CHA-C4D	3.95	1.49	1.40
12	k7	201	CYC	CHD-C1D	3.95	1.49	1.40
12	X9	201	CYC	CHA-C4D	3.95	1.49	1.40
12	q7	201	CYC	CHD-C1D	3.95	1.49	1.40
12	X3	201	CYC	CHA-C4D	3.95	1.49	1.40
12	X1	201	CYC	CHA-C4D	3.95	1.49	1.40
12	D4	202	CYC	CHA-C4D	3.95	1.49	1.40
12	D8	202	CYC	CHA-C4D	3.95	1.49	1.40
12	e5	201	CYC	CHD-C1D	3.95	1.49	1.40
12	a5	201	CYC	CHD-C1D	3.95	1.49	1.40
12	L3	202	CYC	CHA-C4D	3.95	1.49	1.40
12	F6	201	CYC	CHA-C4D	3.95	1.49	1.40
12	aA	902	CYC	CHA-C4D	3.95	1.49	1.40
12	J4	201	CYC	CHA-C4D	3.95	1.49	1.40
12	J8	201	CYC	CHA-C4D	3.95	1.49	1.40
12	JA	202	CYC	CHA-C4D	3.94	1.49	1.40
12	W5	201	CYC	CHD-C1D	3.94	1.49	1.40
12	c7	201	CYC	CHA-C4D	3.94	1.49	1.40
12	A7	201	CYC	CHD-C1D	3.94	1.49	1.40
12	Q1	201	CYC	CHB-C4A	3.94	1.49	1.40
12	Q3	201	CYC	CHB-C4A	3.94	1.49	1.40
12	G7	201	CYC	CHD-C1D	3.94	1.49	1.40
12	V4	201	CYC	CHB-C4A	3.94	1.49	1.40
12	V8	201	CYC	CHB-C4A	3.94	1.49	1.40
12	V3	201	CYC	CHA-C4D	3.94	1.49	1.40
12	V1	201	CYC	CHA-C4D	3.94	1.49	1.40
12	J3	202	CYC	CHA-C4D	3.94	1.49	1.40
12	aA	901	CYC	CHA-C4D	3.94	1.49	1.40
12	P5	201	CYC	CHB-C4A	3.93	1.49	1.40
12	L2	201	CYC	CHA-C4D	3.93	1.49	1.40
12	L6	201	CYC	CHA-C4D	3.93	1.49	1.40
12	M8	302	CYC	CHA-C4D	3.93	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	J2	202	CYC	CHA-C4D	3.93	1.49	1.40
12	J6	202	CYC	CHA-C4D	3.93	1.49	1.40
12	C3	201	CYC	CHB-C4A	3.93	1.49	1.40
12	D7	201	CYC	CHB-C4A	3.93	1.49	1.40
12	J7	201	CYC	CHB-C4A	3.93	1.49	1.40
12	W7	201	CYC	CHD-C1D	3.93	1.49	1.40
12	WA	201	CYC	CHB-C4A	3.93	1.49	1.40
12	W9	201	CYC	CHB-C4A	3.93	1.49	1.40
12	TA	301	CYC	CHA-C4D	3.93	1.49	1.40
12	T9	301	CYC	CHA-C4D	3.93	1.49	1.40
12	c5	201	CYC	CHD-C1D	3.92	1.49	1.40
12	Q7	201	CYC	CHD-C1D	3.92	1.49	1.40
12	Z5	201	CYC	CHA-C4D	3.92	1.49	1.40
12	E9	201	CYC	CHB-C4A	3.92	1.49	1.40
12	ZA	202	CYC	CHA-C4D	3.92	1.49	1.40
12	u7	201	CYC	CHD-C1D	3.92	1.49	1.40
12	Z9	202	CYC	CHA-C4D	3.92	1.49	1.40
12	Y5	201	CYC	CHD-C1D	3.91	1.49	1.40
12	F4	202	CYC	CHA-C4D	3.91	1.49	1.40
12	G5	201	CYC	CHD-C1D	3.91	1.49	1.40
12	F8	202	CYC	CHA-C4D	3.91	1.49	1.40
12	C1	201	CYC	CHB-C4A	3.91	1.49	1.40
12	M5	201	CYC	CHD-C1D	3.91	1.49	1.40
12	s7	201	CYC	CHD-C1D	3.91	1.49	1.40
12	v7	201	CYC	CHB-C4A	3.91	1.49	1.40
12	EA	201	CYC	CHB-C4A	3.91	1.49	1.40
12	I6	201	CYC	CHB-C4A	3.91	1.49	1.40
12	O7	201	CYC	CHD-C1D	3.91	1.49	1.40
12	V5	201	CYC	CHB-C4A	3.90	1.49	1.40
12	I5	201	CYC	CHD-C1D	3.90	1.49	1.40
12	I3	201	CYC	CHB-C4A	3.90	1.49	1.40
12	I1	201	CYC	CHB-C4A	3.90	1.49	1.40
12	d5	201	CYC	CHA-C4D	3.90	1.49	1.40
12	D5	201	CYC	CHB-C4A	3.90	1.49	1.40
12	O5	201	CYC	CHD-C1D	3.90	1.49	1.40
12	i7	201	CYC	CHD-C1D	3.89	1.49	1.40
12	H5	201	CYC	CHB-C4A	3.89	1.49	1.40
12	C5	201	CYC	CHD-C1D	3.89	1.49	1.40
12	B5	201	CYC	CHB-C4A	3.89	1.49	1.40
12	S4	202	CYC	CHA-C4D	3.88	1.49	1.40
12	S7	201	CYC	CHD-C1D	3.88	1.49	1.40
12	A5	201	CYC	CHD-C1D	3.88	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	m7	201	CYC	CHD-C1D	3.88	1.49	1.40
12	W3	201	CYC	CHB-C4A	3.87	1.49	1.40
12	F7	201	CYC	CHB-C4A	3.87	1.49	1.40
12	L7	201	CYC	CHA-C4D	3.87	1.49	1.40
12	p7	201	CYC	CHB-C4A	3.87	1.49	1.40
12	H7	201	CYC	CHB-C4A	3.87	1.49	1.40
12	h7	201	CYC	CHB-C4A	3.86	1.49	1.40
12	W1	201	CYC	CHB-C4A	3.86	1.49	1.40
12	T5	201	CYC	CHB-C4A	3.86	1.49	1.40
12	F7	201	CYC	CHA-C4D	3.86	1.49	1.40
12	M7	201	CYC	CHD-C1D	3.86	1.49	1.40
12	b7	201	CYC	CHB-C4A	3.86	1.49	1.40
12	U7	201	CYC	CHD-C1D	3.86	1.49	1.40
12	J5	201	CYC	CHB-C4A	3.86	1.49	1.40
12	L7	201	CYC	CHB-C4A	3.85	1.49	1.40
12	d7	201	CYC	CHA-C4D	3.85	1.49	1.40
12	c7	201	CYC	CHD-C1D	3.85	1.49	1.40
12	R7	201	CYC	CHA-C4D	3.84	1.49	1.40
12	X7	201	CYC	CHB-C4A	3.84	1.49	1.40
12	F5	201	CYC	CHB-C4A	3.84	1.49	1.40
12	k5	1203	CYC	CHB-C4A	3.84	1.49	1.40
12	N7	201	CYC	CHB-C4A	3.83	1.49	1.40
12	N5	201	CYC	CHA-C4D	3.83	1.49	1.40
12	L5	201	CYC	CHB-C4A	3.83	1.49	1.40
12	N5	201	CYC	CHB-C4A	3.83	1.49	1.40
12	I4	201	CYC	CHB-C4A	3.83	1.49	1.40
12	b5	201	CYC	CHB-C4A	3.83	1.49	1.40
12	I8	201	CYC	CHB-C4A	3.83	1.49	1.40
12	e7	201	CYC	CHD-C1D	3.83	1.49	1.40
12	j7	201	CYC	CHA-C4D	3.83	1.49	1.40
12	d7	201	CYC	CHB-C4A	3.83	1.49	1.40
12	B7	201	CYC	CHB-C4A	3.83	1.49	1.40
12	k5	1202	CYC	CHB-C4A	3.82	1.49	1.40
12	T7	201	CYC	CHB-C4A	3.82	1.49	1.40
12	B7	201	CYC	CHA-C4D	3.82	1.49	1.40
12	T5	201	CYC	CHA-C4D	3.82	1.49	1.40
12	H5	201	CYC	CHA-C4D	3.82	1.49	1.40
12	f7	201	CYC	CHB-C4A	3.82	1.49	1.40
12	Y7	201	CYC	CHD-C1D	3.82	1.49	1.40
12	I2	201	CYC	CHB-C4A	3.82	1.49	1.40
12	X7	201	CYC	CHA-C4D	3.82	1.49	1.40
12	f5	201	CYC	CHB-C4A	3.81	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	T7	201	CYC	CHA-C4D	3.81	1.48	1.40
12	L5	201	CYC	CHA-C4D	3.81	1.48	1.40
12	R5	201	CYC	CHB-C4A	3.81	1.49	1.40
12	r7	201	CYC	CHB-C4A	3.81	1.49	1.40
12	X5	201	CYC	CHA-C4D	3.80	1.48	1.40
12	k5	1203	CYC	CHA-C4D	3.80	1.48	1.40
12	ZA	201	CYC	C1D-C2D	3.80	1.50	1.41
12	Z9	201	CYC	C1D-C2D	3.80	1.50	1.41
12	X5	201	CYC	CHB-C4A	3.80	1.49	1.40
12	j7	201	CYC	CHB-C4A	3.79	1.49	1.40
12	R7	201	CYC	CHB-C4A	3.79	1.49	1.40
12	B5	201	CYC	CHA-C4D	3.79	1.48	1.40
12	G6	201	CYC	CHA-C4D	3.79	1.48	1.40
12	H7	201	CYC	CHA-C4D	3.79	1.48	1.40
12	F5	201	CYC	CHA-C4D	3.78	1.48	1.40
12	r7	201	CYC	CHA-C4D	3.78	1.48	1.40
12	k5	1202	CYC	CHA-C4D	3.78	1.48	1.40
12	P1	202	CYC	C1D-C2D	3.77	1.50	1.41
12	P3	202	CYC	C1D-C2D	3.77	1.50	1.41
12	J7	201	CYC	CHA-C4D	3.77	1.48	1.40
12	P7	201	CYC	CHA-C4D	3.77	1.48	1.40
12	f7	201	CYC	CHA-C4D	3.77	1.48	1.40
12	K2	201	CYC	CHA-C4D	3.76	1.48	1.40
12	G2	201	CYC	CHA-C4D	3.76	1.48	1.40
12	W4	202	CYC	C1D-C2D	3.76	1.50	1.41
12	W8	202	CYC	C1D-C2D	3.76	1.50	1.41
12	k5	1204	CYC	CHA-C4D	3.76	1.48	1.40
12	F3	202	CYC	C1D-C2D	3.75	1.50	1.41
12	V5	201	CYC	CHA-C4D	3.75	1.48	1.40
12	D7	201	CYC	CHA-C4D	3.75	1.48	1.40
12	BA	202	CYC	C1D-C2D	3.75	1.50	1.41
12	B9	202	CYC	C1D-C2D	3.75	1.50	1.41
12	I2	201	CYC	CHA-C4D	3.75	1.48	1.40
12	R5	201	CYC	CHA-C4D	3.74	1.48	1.40
12	j5	1202	CYC	CHA-C4D	3.74	1.48	1.40
12	L6	202	CYC	C1D-C2D	3.74	1.50	1.41
12	N7	201	CYC	CHA-C4D	3.74	1.48	1.40
12	I4	201	CYC	CHA-C4D	3.74	1.48	1.40
12	I8	201	CYC	CHA-C4D	3.74	1.48	1.40
12	D5	201	CYC	CHA-C4D	3.74	1.48	1.40
12	E3	201	CYC	CHA-C4D	3.73	1.48	1.40
12	E1	201	CYC	CHA-C4D	3.73	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	F1	202	CYC	C1D-C2D	3.73	1.50	1.41
12	K6	201	CYC	CHA-C4D	3.73	1.48	1.40
12	V7	201	CYC	CHA-C4D	3.73	1.48	1.40
12	Y4	201	CYC	C1D-C2D	3.73	1.50	1.41
12	Y8	201	CYC	C1D-C2D	3.73	1.50	1.41
12	C4	201	CYC	CHA-C4D	3.73	1.48	1.40
12	C8	201	CYC	CHA-C4D	3.73	1.48	1.40
12	Z5	201	CYC	CHB-C4A	3.73	1.49	1.40
12	AA	201	CYC	CHA-C4D	3.73	1.48	1.40
12	A9	201	CYC	CHA-C4D	3.73	1.48	1.40
12	N4	201	CYC	CHA-C4D	3.73	1.48	1.40
12	N8	201	CYC	CHA-C4D	3.73	1.48	1.40
12	L2	202	CYC	C1D-C2D	3.73	1.50	1.41
12	F9	302	CYC	C1D-C2D	3.73	1.50	1.41
12	A1	201	CYC	CHA-C4D	3.73	1.48	1.40
12	A3	201	CYC	CHA-C4D	3.73	1.48	1.40
12	J3	201	CYC	C1D-C2D	3.72	1.50	1.41
12	J1	201	CYC	C1D-C2D	3.72	1.50	1.41
12	J5	201	CYC	CHA-C4D	3.72	1.48	1.40
12	d5	201	CYC	CHB-C4A	3.72	1.49	1.40
12	E7	201	CYC	CHB-C4A	3.72	1.49	1.40
12	L9	201	CYC	C1D-C2D	3.72	1.50	1.41
12	LA	201	CYC	C1D-C2D	3.71	1.50	1.41
12	F9	303	CYC	C1D-C2D	3.71	1.50	1.41
12	B4	201	CYC	C1D-C2D	3.71	1.50	1.41
12	B8	201	CYC	C1D-C2D	3.71	1.50	1.41
12	I6	201	CYC	CHA-C4D	3.71	1.48	1.40
12	h7	201	CYC	CHA-C4D	3.71	1.48	1.40
12	V4	201	CYC	CHA-C4D	3.71	1.48	1.40
12	V8	201	CYC	CHA-C4D	3.71	1.48	1.40
12	K7	201	CYC	CHB-C4A	3.70	1.49	1.40
12	P5	201	CYC	CHA-C4D	3.70	1.48	1.40
12	HA	201	CYC	C1D-C2D	3.70	1.50	1.41
12	H9	201	CYC	C1D-C2D	3.70	1.50	1.41
12	RA	202	CYC	C1D-C2D	3.70	1.50	1.41
12	R9	202	CYC	C1D-C2D	3.70	1.50	1.41
12	Z	201	CYC	CHA-C4D	3.70	1.48	1.40
12	Q8	201	CYC	C1D-C2D	3.70	1.50	1.41
12	J6	201	CYC	C1D-C2D	3.70	1.50	1.41
12	B2	201	CYC	C1D-C2D	3.70	1.50	1.41
12	J2	201	CYC	C1D-C2D	3.69	1.50	1.41
12	p7	201	CYC	CHA-C4D	3.69	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	b7	201	CYC	CHA-C4D	3.69	1.48	1.40
12	O4	202	CYC	C1D-C2D	3.69	1.50	1.41
12	O8	202	CYC	C1D-C2D	3.69	1.50	1.41
12	QA	201	CYC	CHA-C4D	3.69	1.48	1.40
12	f5	201	CYC	CHA-C4D	3.69	1.48	1.40
12	JA	201	CYC	C1D-C2D	3.69	1.50	1.41
12	J9	201	CYC	C1D-C2D	3.69	1.50	1.41
12	W9	201	CYC	CHA-C4D	3.69	1.48	1.40
12	A	201	CYC	CHA-C4D	3.69	1.48	1.40
12	H4	202	CYC	C1D-C2D	3.69	1.50	1.41
12	H8	202	CYC	C1D-C2D	3.69	1.50	1.41
12	WA	201	CYC	CHA-C4D	3.68	1.48	1.40
12	TA	302	CYC	C1D-C2D	3.68	1.50	1.41
12	T9	302	CYC	C1D-C2D	3.68	1.50	1.41
12	v7	201	CYC	CHA-C4D	3.68	1.48	1.40
12	A5	201	CYC	CHB-C4A	3.68	1.49	1.40
12	G7	201	CYC	CHB-C4A	3.68	1.49	1.40
12	O1	201	CYC	CHA-C4D	3.68	1.48	1.40
12	O3	201	CYC	CHA-C4D	3.68	1.48	1.40
12	Q4	201	CYC	C1D-C2D	3.68	1.50	1.41
12	BA	202	CYC	CHA-C4D	3.68	1.48	1.40
12	B9	202	CYC	CHA-C4D	3.68	1.48	1.40
12	U4	202	CYC	C1D-C2D	3.68	1.50	1.41
12	A6	201	CYC	CHA-C4D	3.67	1.48	1.40
12	A2	201	CYC	CHA-C4D	3.67	1.48	1.40
12	DA	202	CYC	C1D-C2D	3.67	1.50	1.41
12	D9	202	CYC	C1D-C2D	3.67	1.50	1.41
12	Q9	201	CYC	CHA-C4D	3.67	1.48	1.40
12	CA	201	CYC	CHA-C4D	3.67	1.48	1.40
12	C9	201	CYC	CHA-C4D	3.67	1.48	1.40
12	H3	201	CYC	C1D-C2D	3.67	1.50	1.41
12	H1	202	CYC	C1D-C2D	3.67	1.50	1.41
12	X3	202	CYC	C1D-C2D	3.67	1.50	1.41
12	X1	202	CYC	C1D-C2D	3.67	1.50	1.41
12	b5	201	CYC	CHA-C4D	3.67	1.48	1.40
12	B3	201	CYC	C1D-C2D	3.67	1.50	1.41
12	B1	201	CYC	C1D-C2D	3.67	1.50	1.41
12	I3	201	CYC	CHA-C4D	3.67	1.48	1.40
12	I1	201	CYC	CHA-C4D	3.67	1.48	1.40
12	F4	201	CYC	C1D-C2D	3.66	1.50	1.41
12	L4	201	CYC	C1D-C2D	3.66	1.50	1.41
12	F8	201	CYC	C1D-C2D	3.66	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	L8	201	CYC	C1D-C2D	3.66	1.50	1.41
12	C6	201	CYC	CHA-C4D	3.66	1.48	1.40
12	C2	201	CYC	CHA-C4D	3.66	1.48	1.40
12	S4	201	CYC	C1D-C2D	3.66	1.50	1.41
12	F6	202	CYC	C1D-C2D	3.66	1.50	1.41
12	S8	201	CYC	C1D-C2D	3.66	1.50	1.41
12	W3	201	CYC	CHA-C4D	3.66	1.48	1.40
12	W1	201	CYC	CHA-C4D	3.66	1.48	1.40
12	OA	201	CYC	CHA-C4D	3.66	1.48	1.40
12	O9	201	CYC	CHA-C4D	3.66	1.48	1.40
12	U8	202	CYC	C1D-C2D	3.66	1.50	1.41
12	S7	201	CYC	CHB-C4A	3.66	1.49	1.40
12	Q1	201	CYC	CHA-C4D	3.66	1.48	1.40
12	Q3	201	CYC	CHA-C4D	3.66	1.48	1.40
12	D4	201	CYC	C1D-C2D	3.66	1.50	1.41
12	D8	201	CYC	C1D-C2D	3.66	1.50	1.41
12	B6	201	CYC	C1D-C2D	3.65	1.50	1.41
12	G3	201	CYC	CHA-C4D	3.65	1.48	1.40
12	G1	201	CYC	CHA-C4D	3.65	1.48	1.40
12	O7	201	CYC	CHB-C4A	3.65	1.49	1.40
12	E4	201	CYC	CHA-C4D	3.65	1.48	1.40
12	E8	201	CYC	CHA-C4D	3.65	1.48	1.40
12	j5	1201	CYC	CHA-C4D	3.65	1.48	1.40
12	H2	202	CYC	C1D-C2D	3.65	1.50	1.41
12	H6	202	CYC	C1D-C2D	3.65	1.50	1.41
12	C7	201	CYC	CHB-C4A	3.65	1.49	1.40
12	R4	201	CYC	CHA-C4D	3.64	1.48	1.40
12	R8	201	CYC	CHA-C4D	3.64	1.48	1.40
12	IA	201	CYC	CHA-C4D	3.64	1.48	1.40
12	I9	201	CYC	CHA-C4D	3.64	1.48	1.40
12	K4	201	CYC	CHA-C4D	3.64	1.48	1.40
12	E6	201	CYC	CHA-C4D	3.64	1.48	1.40
12	K8	201	CYC	CHA-C4D	3.64	1.48	1.40
12	J4	202	CYC	C1D-C2D	3.64	1.50	1.41
12	J8	202	CYC	C1D-C2D	3.64	1.50	1.41
12	X4	201	CYC	CHA-C4D	3.64	1.48	1.40
12	X8	201	CYC	CHA-C4D	3.64	1.48	1.40
12	L3	201	CYC	C1D-C2D	3.64	1.50	1.41
12	L1	201	CYC	C1D-C2D	3.64	1.50	1.41
12	F2	202	CYC	C1D-C2D	3.64	1.50	1.41
12	U5	201	CYC	CHB-C4A	3.64	1.49	1.40
12	V3	202	CYC	C1D-C2D	3.64	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	V1	202	CYC	C1D-C2D	3.64	1.50	1.41
12	PA	202	CYC	C1D-C2D	3.64	1.50	1.41
12	P9	202	CYC	C1D-C2D	3.64	1.50	1.41
12	E5	201	CYC	CHB-C4A	3.63	1.49	1.40
12	XA	202	CYC	C1D-C2D	3.63	1.50	1.41
12	X9	202	CYC	C1D-C2D	3.63	1.50	1.41
12	k5	1201	CYC	CHA-C4D	3.63	1.48	1.40
12	k7	201	CYC	CHB-C4A	3.63	1.49	1.40
12	A4	201	CYC	CHA-C4D	3.63	1.48	1.40
12	A8	201	CYC	CHA-C4D	3.63	1.48	1.40
12	G5	201	CYC	CHB-C4A	3.63	1.49	1.40
12	I7	201	CYC	CHB-C4A	3.63	1.49	1.40
12	K5	201	CYC	CHB-C4A	3.62	1.49	1.40
12	E5	201	CYC	C3D-C2D	3.62	1.48	1.38
12	M7	201	CYC	CHB-C4A	3.62	1.49	1.40
12	P4	201	CYC	CHA-C4D	3.62	1.48	1.40
12	P8	201	CYC	CHA-C4D	3.62	1.48	1.40
12	G4	201	CYC	CHA-C4D	3.62	1.48	1.40
12	G8	201	CYC	CHA-C4D	3.62	1.48	1.40
12	S5	201	CYC	CHB-C4A	3.62	1.49	1.40
12	A7	201	CYC	CHB-C4A	3.61	1.49	1.40
12	Y3	201	CYC	CHA-C4D	3.61	1.48	1.40
12	Y1	201	CYC	CHA-C4D	3.61	1.48	1.40
12	q7	201	CYC	CHB-C4A	3.61	1.49	1.40
12	U3	201	CYC	CHA-C4D	3.61	1.48	1.40
12	T4	201	CYC	CHA-C4D	3.61	1.48	1.40
12	T8	201	CYC	CHA-C4D	3.61	1.48	1.40
12	U1	201	CYC	CHA-C4D	3.61	1.48	1.40
12	g7	201	CYC	CHB-C4A	3.61	1.48	1.40
12	a7	201	CYC	CHB-C4A	3.61	1.48	1.40
12	O5	201	CYC	CHB-C4A	3.61	1.48	1.40
12	UA	201	CYC	CHA-C4D	3.61	1.48	1.40
12	U9	201	CYC	CHA-C4D	3.61	1.48	1.40
12	W5	201	CYC	CHB-C4A	3.61	1.48	1.40
12	Y5	201	CYC	CHB-C4A	3.60	1.48	1.40
12	K5	201	CYC	C3D-C2D	3.60	1.48	1.38
12	Y7	201	CYC	CHB-C4A	3.60	1.48	1.40
12	Z1	201	CYC	C1D-C2D	3.60	1.50	1.41
12	EA	201	CYC	CHA-C4D	3.60	1.48	1.40
12	E9	201	CYC	CHA-C4D	3.60	1.48	1.40
12	u7	201	CYC	CHB-C4A	3.60	1.48	1.40
12	e7	201	CYC	CHB-C4A	3.60	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	GA	201	CYC	CHA-C4D	3.60	1.48	1.40
12	G9	201	CYC	CHA-C4D	3.60	1.48	1.40
12	U7	201	CYC	CHB-C4A	3.60	1.48	1.40
12	VA	202	CYC	C1D-C2D	3.60	1.50	1.41
12	V9	202	CYC	C1D-C2D	3.60	1.50	1.41
12	E2	201	CYC	CHA-C4D	3.60	1.48	1.40
12	Q7	201	CYC	CHB-C4A	3.59	1.48	1.40
12	Z3	202	CYC	C1D-C2D	3.59	1.50	1.41
12	SA	201	CYC	CHA-C4D	3.59	1.48	1.40
12	S9	201	CYC	CHA-C4D	3.59	1.48	1.40
12	o7	201	CYC	CHB-C4A	3.58	1.48	1.40
12	Q5	201	CYC	CHB-C4A	3.58	1.48	1.40
12	M5	201	CYC	CHB-C4A	3.58	1.48	1.40
12	i7	201	CYC	CHB-C4A	3.58	1.48	1.40
12	D2	201	CYC	C3D-C2D	3.58	1.48	1.38
12	D3	201	CYC	C1D-C2D	3.58	1.50	1.41
12	D1	201	CYC	C1D-C2D	3.58	1.50	1.41
12	m7	201	CYC	CHB-C4A	3.58	1.48	1.40
12	s7	201	CYC	CHB-C4A	3.58	1.48	1.40
12	U4	202	CYC	CHA-C4D	3.58	1.48	1.40
12	U8	202	CYC	CHA-C4D	3.58	1.48	1.40
12	D6	201	CYC	C3D-C2D	3.58	1.48	1.38
12	S1	201	CYC	CHA-C4D	3.58	1.48	1.40
12	S3	201	CYC	CHA-C4D	3.58	1.48	1.40
12	c7	201	CYC	CHB-C4A	3.58	1.48	1.40
12	VA	202	CYC	CHA-C4D	3.58	1.48	1.40
12	V9	202	CYC	CHA-C4D	3.58	1.48	1.40
12	F3	202	CYC	CHB-C4A	3.57	1.48	1.40
12	F1	202	CYC	CHB-C4A	3.57	1.48	1.40
12	HA	201	CYC	CHA-C4D	3.57	1.48	1.40
12	H9	201	CYC	CHA-C4D	3.57	1.48	1.40
12	KA	201	CYC	CHA-C4D	3.57	1.48	1.40
12	K9	201	CYC	CHA-C4D	3.57	1.48	1.40
12	u7	201	CYC	C3D-C2D	3.57	1.48	1.38
12	C3	201	CYC	CHA-C4D	3.57	1.48	1.40
12	C1	201	CYC	CHA-C4D	3.57	1.48	1.40
12	e5	201	CYC	CHB-C4A	3.56	1.48	1.40
12	T3	302	CYC	C1D-C2D	3.56	1.50	1.41
12	T1	302	CYC	C1D-C2D	3.56	1.50	1.41
12	a5	201	CYC	CHB-C4A	3.56	1.48	1.40
12	c5	201	CYC	CHB-C4A	3.56	1.48	1.40
12	I5	201	CYC	CHB-C4A	3.56	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	L1	201	CYC	CHA-C4D	3.56	1.48	1.40
12	YA	201	CYC	CHA-C4D	3.56	1.48	1.40
12	Y9	201	CYC	CHA-C4D	3.56	1.48	1.40
12	Q7	201	CYC	C3D-C2D	3.56	1.48	1.38
12	T3	302	CYC	CHA-C4D	3.56	1.48	1.40
12	T1	302	CYC	CHA-C4D	3.56	1.48	1.40
12	XA	202	CYC	CHB-C4A	3.56	1.48	1.40
12	X9	202	CYC	CHB-C4A	3.56	1.48	1.40
12	U7	201	CYC	C3D-C2D	3.55	1.48	1.38
12	L3	201	CYC	CHA-C4D	3.55	1.48	1.40
12	H4	201	CYC	C3D-C2D	3.55	1.48	1.38
12	H8	201	CYC	C3D-C2D	3.55	1.48	1.38
12	H4	202	CYC	CHA-C4D	3.55	1.48	1.40
12	H8	202	CYC	CHA-C4D	3.55	1.48	1.40
12	W7	201	CYC	C3D-C2D	3.55	1.48	1.38
12	D6	202	CYC	C1D-C2D	3.55	1.49	1.41
12	D2	202	CYC	C1D-C2D	3.55	1.49	1.41
12	i7	201	CYC	C3D-C2D	3.55	1.48	1.38
12	W7	201	CYC	CHB-C4A	3.55	1.48	1.40
12	B2	201	CYC	CHB-C4A	3.55	1.48	1.40
12	O4	202	CYC	CHA-C4D	3.54	1.48	1.40
12	TA	302	CYC	CHA-C4D	3.54	1.48	1.40
12	T9	302	CYC	CHA-C4D	3.54	1.48	1.40
12	L2	202	CYC	CHB-C4A	3.54	1.48	1.40
12	C5	201	CYC	CHB-C4A	3.53	1.48	1.40
12	O4	202	CYC	CHB-C4A	3.53	1.48	1.40
12	O8	202	CYC	CHB-C4A	3.53	1.48	1.40
12	Z1	201	CYC	CHA-C4D	3.53	1.48	1.40
12	B4	201	CYC	CHA-C4D	3.53	1.48	1.40
12	B8	201	CYC	CHA-C4D	3.53	1.48	1.40
12	Q5	201	CYC	C3D-C2D	3.53	1.48	1.38
12	T7	201	CYC	C1C-NC	-3.53	1.33	1.37
12	T3	302	CYC	CHB-C4A	3.53	1.48	1.40
12	T1	302	CYC	CHB-C4A	3.53	1.48	1.40
12	e7	201	CYC	C3D-C2D	3.53	1.48	1.38
12	S4	201	CYC	CHB-C4A	3.53	1.48	1.40
12	S8	201	CYC	CHB-C4A	3.53	1.48	1.40
12	ZA	201	CYC	CHA-C4D	3.52	1.48	1.40
12	Z9	201	CYC	CHA-C4D	3.52	1.48	1.40
12	JA	201	CYC	CHA-C4D	3.52	1.48	1.40
12	W4	202	CYC	CHA-C4D	3.52	1.48	1.40
12	W8	202	CYC	CHA-C4D	3.52	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	T3	301	CYC	C3D-C2D	3.52	1.48	1.38
12	T1	301	CYC	C3D-C2D	3.52	1.48	1.38
12	F9	301	CYC	C3D-C2D	3.52	1.48	1.38
12	c7	201	CYC	C3D-C2D	3.52	1.48	1.38
12	F3	202	CYC	CHA-C4D	3.52	1.48	1.40
12	F1	202	CYC	CHA-C4D	3.52	1.48	1.40
12	J9	201	CYC	CHA-C4D	3.52	1.48	1.40
12	W5	201	CYC	C3D-C2D	3.52	1.48	1.38
12	O7	201	CYC	C3D-C2D	3.52	1.48	1.38
12	Q8	201	CYC	CHA-C4D	3.52	1.48	1.40
12	J2	201	CYC	CHA-C4D	3.52	1.48	1.40
12	J6	201	CYC	CHA-C4D	3.52	1.48	1.40
12	M7	201	CYC	C3D-C2D	3.52	1.48	1.38
12	Q4	201	CYC	CHA-C4D	3.51	1.48	1.40
12	D4	201	CYC	CHA-C4D	3.51	1.48	1.40
12	R1	202	CYC	C1D-C2D	3.51	1.49	1.41
12	B3	201	CYC	CHB-C4A	3.51	1.48	1.40
12	B1	201	CYC	CHB-C4A	3.51	1.48	1.40
12	ZA	202	CYC	C3D-C2D	3.51	1.48	1.38
12	Z9	202	CYC	C3D-C2D	3.51	1.48	1.38
12	b5	201	CYC	C3D-C2D	3.51	1.48	1.38
12	LA	201	CYC	CHB-C4A	3.51	1.48	1.40
12	A5	201	CYC	C3D-C2D	3.51	1.48	1.38
12	D3	201	CYC	CHA-C4D	3.51	1.48	1.40
12	L6	202	CYC	CHB-C4A	3.51	1.48	1.40
12	O8	202	CYC	CHA-C4D	3.51	1.48	1.40
12	PA	202	CYC	CHA-C4D	3.51	1.48	1.40
12	V3	202	CYC	CHA-C4D	3.51	1.48	1.40
12	P9	202	CYC	CHA-C4D	3.51	1.48	1.40
12	V1	202	CYC	CHA-C4D	3.51	1.48	1.40
12	J4	202	CYC	CHA-C4D	3.51	1.48	1.40
12	J8	202	CYC	CHA-C4D	3.51	1.48	1.40
12	Q4	201	CYC	CHB-C4A	3.51	1.48	1.40
12	PA	202	CYC	CHB-C4A	3.50	1.48	1.40
12	P9	202	CYC	CHB-C4A	3.50	1.48	1.40
12	D1	201	CYC	CHA-C4D	3.50	1.48	1.40
12	B6	201	CYC	CHA-C4D	3.50	1.48	1.40
12	B2	201	CYC	CHA-C4D	3.50	1.48	1.40
12	K3	201	CYC	CHA-C4D	3.50	1.48	1.40
12	K1	201	CYC	CHA-C4D	3.50	1.48	1.40
12	Z3	202	CYC	CHA-C4D	3.50	1.48	1.40
12	B6	201	CYC	CHB-C4A	3.50	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	Q8	201	CYC	CHB-C4A	3.50	1.48	1.40
12	HA	201	CYC	CHB-C4A	3.50	1.48	1.40
12	H9	201	CYC	CHB-C4A	3.50	1.48	1.40
12	R3	202	CYC	C1D-C2D	3.50	1.49	1.41
12	V5	201	CYC	C3D-C2D	3.50	1.48	1.38
12	Z	201	CYC	C3D-C2D	3.50	1.48	1.38
12	P1	202	CYC	CHA-C4D	3.49	1.48	1.40
12	P3	202	CYC	CHA-C4D	3.49	1.48	1.40
12	Z3	201	CYC	C3D-C2D	3.49	1.48	1.38
12	Z1	202	CYC	C3D-C2D	3.49	1.48	1.38
12	J4	202	CYC	CHB-C4A	3.49	1.48	1.40
12	J8	202	CYC	CHB-C4A	3.49	1.48	1.40
12	B3	201	CYC	CHA-C4D	3.49	1.48	1.40
12	B1	201	CYC	CHA-C4D	3.49	1.48	1.40
12	G5	201	CYC	C3D-C2D	3.49	1.48	1.38
12	k7	201	CYC	C3D-C2D	3.49	1.48	1.38
12	H3	201	CYC	CHB-C4A	3.49	1.48	1.40
12	H1	202	CYC	CHB-C4A	3.49	1.48	1.40
12	A7	201	CYC	C3D-C2D	3.49	1.48	1.38
12	Y7	201	CYC	C3D-C2D	3.49	1.48	1.38
12	F9	302	CYC	CHA-C4D	3.49	1.48	1.40
12	A	201	CYC	C3D-C2D	3.49	1.48	1.38
12	d7	201	CYC	C3D-C2D	3.49	1.48	1.38
12	L9	201	CYC	CHB-C4A	3.49	1.48	1.40
12	M5	201	CYC	C3D-C2D	3.49	1.48	1.38
12	R1	202	CYC	CHB-C4A	3.49	1.48	1.40
12	DA	202	CYC	CHA-C4D	3.49	1.48	1.40
12	D9	202	CYC	CHA-C4D	3.49	1.48	1.40
12	F8	202	CYC	C3D-C2D	3.49	1.48	1.38
12	LA	201	CYC	CHA-C4D	3.49	1.48	1.40
12	L9	201	CYC	CHA-C4D	3.49	1.48	1.40
12	D2	202	CYC	CHB-C4A	3.49	1.48	1.40
12	k5	1202	CYC	C1C-NC	-3.49	1.33	1.37
12	f7	201	CYC	C1C-NC	-3.49	1.33	1.37
12	FA	301	CYC	C3D-C2D	3.49	1.48	1.38
12	XA	201	CYC	C3D-C2D	3.49	1.48	1.38
12	X9	201	CYC	C3D-C2D	3.49	1.48	1.38
12	E7	201	CYC	C3D-C2D	3.49	1.48	1.38
12	L4	201	CYC	CHA-C4D	3.49	1.48	1.40
12	L8	201	CYC	CHA-C4D	3.49	1.48	1.40
12	K7	201	CYC	C3D-C2D	3.49	1.48	1.38
12	f5	201	CYC	C3D-C2D	3.48	1.48	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	F9	303	CYC	CHA-C4D	3.48	1.48	1.40
12	o7	201	CYC	C3D-C2D	3.48	1.48	1.38
12	c5	201	CYC	C3D-C2D	3.48	1.48	1.38
12	F4	202	CYC	C3D-C2D	3.48	1.48	1.38
12	H5	201	CYC	C3D-C2D	3.48	1.48	1.38
12	F9	303	CYC	CHB-C4A	3.48	1.48	1.40
12	R3	202	CYC	CHB-C4A	3.48	1.48	1.40
12	D8	201	CYC	CHA-C4D	3.48	1.48	1.40
12	Z4	301	CYC	C3D-C2D	3.48	1.48	1.38
12	F4	201	CYC	CHB-C4A	3.48	1.48	1.40
12	F8	201	CYC	CHB-C4A	3.48	1.48	1.40
12	D6	202	CYC	CHB-C4A	3.47	1.48	1.40
12	D3	202	CYC	C3D-C2D	3.47	1.48	1.38
12	D1	202	CYC	C3D-C2D	3.47	1.48	1.38
12	L3	202	CYC	C3D-C2D	3.47	1.48	1.38
12	U4	201	CYC	C2C-C1C	-3.47	1.49	1.52
12	U8	201	CYC	C2C-C1C	-3.47	1.49	1.52
12	VA	202	CYC	CHB-C4A	3.47	1.48	1.40
12	V9	202	CYC	CHB-C4A	3.47	1.48	1.40
12	PA	201	CYC	C3D-C2D	3.47	1.47	1.38
12	P9	201	CYC	C3D-C2D	3.47	1.47	1.38
12	J4	201	CYC	C3D-C2D	3.47	1.47	1.38
12	a7	201	CYC	C3D-C2D	3.47	1.47	1.38
12	J8	201	CYC	C3D-C2D	3.47	1.47	1.38
12	L4	201	CYC	CHB-C4A	3.47	1.48	1.40
12	L8	201	CYC	CHB-C4A	3.47	1.48	1.40
12	P1	202	CYC	CHB-C4A	3.47	1.48	1.40
12	P3	202	CYC	CHB-C4A	3.47	1.48	1.40
12	F9	302	CYC	CHB-C4A	3.47	1.48	1.40
12	F4	201	CYC	CHA-C4D	3.47	1.48	1.40
12	F8	201	CYC	CHA-C4D	3.47	1.48	1.40
12	X7	201	CYC	C3D-C2D	3.47	1.47	1.38
12	P5	201	CYC	C3D-C2D	3.47	1.47	1.38
12	R1	202	CYC	CHA-C4D	3.47	1.48	1.40
12	R3	202	CYC	CHA-C4D	3.47	1.48	1.40
12	X3	201	CYC	C3D-C2D	3.47	1.47	1.38
12	Z5	201	CYC	C3D-C2D	3.47	1.47	1.38
12	X1	201	CYC	C3D-C2D	3.47	1.47	1.38
12	Y4	201	CYC	CHB-C4A	3.46	1.48	1.40
12	Y8	201	CYC	CHB-C4A	3.46	1.48	1.40
12	j7	201	CYC	C3D-C2D	3.46	1.47	1.38
12	f7	201	CYC	C3D-C2D	3.46	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	RA	201	CYC	C3D-C2D	3.46	1.47	1.38
12	S7	201	CYC	C3D-C2D	3.46	1.47	1.38
12	R9	201	CYC	C3D-C2D	3.46	1.47	1.38
12	G7	201	CYC	C3D-C2D	3.46	1.47	1.38
12	DA	201	CYC	C3D-C2D	3.46	1.47	1.38
12	D9	201	CYC	C3D-C2D	3.46	1.47	1.38
12	R7	201	CYC	C3D-C2D	3.46	1.47	1.38
12	H4	202	CYC	CHB-C4A	3.46	1.48	1.40
12	H8	202	CYC	CHB-C4A	3.46	1.48	1.40
12	Y4	201	CYC	CHA-C4D	3.46	1.48	1.40
12	Y8	201	CYC	CHA-C4D	3.46	1.48	1.40
12	J3	201	CYC	CHA-C4D	3.46	1.48	1.40
12	J1	201	CYC	CHA-C4D	3.46	1.48	1.40
12	Y5	201	CYC	C3D-C2D	3.46	1.47	1.38
12	q7	201	CYC	C3D-C2D	3.46	1.47	1.38
12	B5	201	CYC	C3D-C2D	3.46	1.47	1.38
12	VA	201	CYC	C3D-C2D	3.46	1.47	1.38
12	J3	202	CYC	C3D-C2D	3.46	1.47	1.38
12	V9	201	CYC	C3D-C2D	3.46	1.47	1.38
12	aA	901	CYC	C3D-C2D	3.46	1.47	1.38
12	B4	201	CYC	CHB-C4A	3.46	1.48	1.40
12	B8	201	CYC	CHB-C4A	3.46	1.48	1.40
12	WA	201	CYC	C1D-C2D	3.46	1.49	1.41
12	W9	201	CYC	C1D-C2D	3.46	1.49	1.41
12	S4	202	CYC	C3D-C2D	3.46	1.47	1.38
12	I7	201	CYC	C3D-C2D	3.45	1.47	1.38
12	D4	201	CYC	CHB-C4A	3.45	1.48	1.40
12	D8	201	CYC	CHB-C4A	3.45	1.48	1.40
12	TA	301	CYC	C3D-C2D	3.45	1.47	1.38
12	T9	301	CYC	C3D-C2D	3.45	1.47	1.38
12	RA	202	CYC	CHA-C4D	3.45	1.48	1.40
12	H2	202	CYC	CHB-C4A	3.45	1.48	1.40
12	H6	202	CYC	CHB-C4A	3.45	1.48	1.40
12	H2	202	CYC	CHA-C4D	3.45	1.48	1.40
12	H6	202	CYC	CHA-C4D	3.45	1.48	1.40
12	R9	202	CYC	CHA-C4D	3.45	1.48	1.40
12	B8	202	CYC	C3D-C2D	3.45	1.47	1.38
12	H1	202	CYC	CHA-C4D	3.45	1.48	1.40
12	L3	201	CYC	CHB-C4A	3.45	1.48	1.40
12	L1	201	CYC	CHB-C4A	3.45	1.48	1.40
12	D5	201	CYC	C3D-C2D	3.45	1.47	1.38
12	H2	201	CYC	C3D-C2D	3.45	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	H6	201	CYC	C3D-C2D	3.45	1.47	1.38
12	M8	301	CYC	C3D-C2D	3.45	1.47	1.38
12	S4	201	CYC	CHA-C4D	3.45	1.48	1.40
12	X9	202	CYC	CHA-C4D	3.45	1.48	1.40
12	J5	201	CYC	C3D-C2D	3.45	1.47	1.38
12	k5	1201	CYC	C1D-C2D	3.45	1.49	1.41
12	S5	201	CYC	C3D-C2D	3.45	1.47	1.38
12	B4	202	CYC	C3D-C2D	3.45	1.47	1.38
12	L6	201	CYC	C3D-C2D	3.45	1.47	1.38
12	JA	201	CYC	CHB-C4A	3.45	1.48	1.40
12	J9	201	CYC	CHB-C4A	3.45	1.48	1.40
12	e5	201	CYC	C3D-C2D	3.45	1.47	1.38
12	P7	201	CYC	C3D-C2D	3.45	1.47	1.38
12	LA	202	CYC	C3D-C2D	3.44	1.47	1.38
12	L9	202	CYC	C3D-C2D	3.44	1.47	1.38
12	aA	902	CYC	C3D-C2D	3.44	1.47	1.38
12	K4	201	CYC	C1D-C2D	3.44	1.49	1.41
12	K8	201	CYC	C1D-C2D	3.44	1.49	1.41
12	k5	1202	CYC	C3D-C2D	3.44	1.47	1.38
12	S8	201	CYC	CHA-C4D	3.44	1.48	1.40
12	O5	201	CYC	C3D-C2D	3.44	1.47	1.38
12	D2	202	CYC	CHA-C4D	3.44	1.48	1.40
12	T5	201	CYC	C3D-C2D	3.44	1.47	1.38
12	J3	201	CYC	CHB-C4A	3.44	1.48	1.40
12	J1	201	CYC	CHB-C4A	3.44	1.48	1.40
12	N5	201	CYC	C3D-C2D	3.44	1.47	1.38
12	P1	201	CYC	C3D-C2D	3.44	1.47	1.38
12	L2	201	CYC	C3D-C2D	3.44	1.47	1.38
12	P3	201	CYC	C3D-C2D	3.44	1.47	1.38
12	g7	201	CYC	C3D-C2D	3.44	1.47	1.38
12	M8	302	CYC	C3D-C2D	3.44	1.47	1.38
12	F2	201	CYC	C3D-C2D	3.44	1.47	1.38
12	V7	201	CYC	C3D-C2D	3.44	1.47	1.38
12	s7	201	CYC	C3D-C2D	3.44	1.47	1.38
12	L7	201	CYC	C3D-C2D	3.44	1.47	1.38
12	M4	301	CYC	C3D-C2D	3.44	1.47	1.38
12	A2	201	CYC	C1D-C2D	3.44	1.49	1.41
12	D4	202	CYC	C3D-C2D	3.44	1.47	1.38
12	D8	202	CYC	C3D-C2D	3.44	1.47	1.38
12	BA	202	CYC	CHB-C4A	3.43	1.48	1.40
12	B9	202	CYC	CHB-C4A	3.43	1.48	1.40
12	D6	202	CYC	CHA-C4D	3.43	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	T9	302	CYC	CHB-C4A	3.43	1.48	1.40
12	V3	201	CYC	C3D-C2D	3.43	1.47	1.38
12	V1	201	CYC	C3D-C2D	3.43	1.47	1.38
12	W4	201	CYC	C3D-C2D	3.43	1.47	1.38
12	U5	201	CYC	C3D-C2D	3.43	1.47	1.38
12	W8	201	CYC	C3D-C2D	3.43	1.47	1.38
12	J2	201	CYC	CHB-C4A	3.43	1.48	1.40
12	J6	201	CYC	CHB-C4A	3.43	1.48	1.40
12	F6	201	CYC	C3D-C2D	3.43	1.47	1.38
12	m7	201	CYC	C3D-C2D	3.43	1.47	1.38
12	A6	201	CYC	C1D-C2D	3.43	1.49	1.41
12	H3	202	CYC	C3D-C2D	3.43	1.47	1.38
12	V3	202	CYC	CHB-C4A	3.43	1.48	1.40
12	V1	202	CYC	CHB-C4A	3.43	1.48	1.40
12	L5	201	CYC	C3D-C2D	3.43	1.47	1.38
12	X3	202	CYC	CHB-C4A	3.43	1.48	1.40
12	X1	202	CYC	CHB-C4A	3.43	1.48	1.40
12	X3	202	CYC	CHA-C4D	3.43	1.48	1.40
12	X1	202	CYC	CHA-C4D	3.43	1.48	1.40
12	BA	201	CYC	C3D-C2D	3.43	1.47	1.38
12	C7	201	CYC	C3D-C2D	3.43	1.47	1.38
12	B9	201	CYC	C3D-C2D	3.43	1.47	1.38
12	U3	201	CYC	C1D-C2D	3.43	1.49	1.41
12	U1	201	CYC	C1D-C2D	3.43	1.49	1.41
12	I2	201	CYC	C1D-C2D	3.43	1.49	1.41
12	d5	201	CYC	C3D-C2D	3.43	1.47	1.38
12	F7	201	CYC	C3D-C2D	3.43	1.47	1.38
12	RA	202	CYC	CHB-C4A	3.43	1.48	1.40
12	R9	202	CYC	CHB-C4A	3.43	1.48	1.40
12	H3	201	CYC	CHA-C4D	3.42	1.48	1.40
12	D3	201	CYC	CHB-C4A	3.42	1.48	1.40
12	D1	201	CYC	CHB-C4A	3.42	1.48	1.40
12	W4	202	CYC	CHB-C4A	3.42	1.48	1.40
12	W8	202	CYC	CHB-C4A	3.42	1.48	1.40
12	J7	201	CYC	C1D-C2D	3.42	1.49	1.41
12	j5	1202	CYC	C3D-C2D	3.42	1.47	1.38
12	Z8	301	CYC	C3D-C2D	3.42	1.47	1.38
12	U4	202	CYC	CHB-C4A	3.42	1.48	1.40
12	U8	202	CYC	CHB-C4A	3.42	1.48	1.40
12	T7	201	CYC	C3D-C2D	3.42	1.47	1.38
12	XA	202	CYC	CHA-C4D	3.42	1.48	1.40
12	F5	201	CYC	C3D-C2D	3.42	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	b7	201	CYC	C1D-C2D	3.42	1.49	1.41
12	R1	201	CYC	C3D-C2D	3.42	1.47	1.38
12	R3	201	CYC	C3D-C2D	3.42	1.47	1.38
12	H1	201	CYC	C3D-C2D	3.41	1.47	1.38
12	j5	1201	CYC	C1D-C2D	3.41	1.49	1.41
12	X5	201	CYC	C3D-C2D	3.41	1.47	1.38
12	p7	201	CYC	C3D-C2D	3.41	1.47	1.38
12	D7	201	CYC	C3D-C2D	3.41	1.47	1.38
12	J7	201	CYC	C3D-C2D	3.41	1.47	1.38
12	E3	201	CYC	C1D-C2D	3.41	1.49	1.41
12	E1	201	CYC	C1D-C2D	3.41	1.49	1.41
12	a5	201	CYC	C3D-C2D	3.41	1.47	1.38
12	J2	202	CYC	C3D-C2D	3.41	1.47	1.38
12	GA	201	CYC	C1D-C2D	3.41	1.49	1.41
12	G9	201	CYC	C1D-C2D	3.41	1.49	1.41
12	k5	1203	CYC	C3D-C2D	3.41	1.47	1.38
12	D9	202	CYC	CHB-C4A	3.40	1.48	1.40
12	v7	201	CYC	C3D-C2D	3.40	1.47	1.38
12	r7	201	CYC	C3D-C2D	3.40	1.47	1.38
12	DA	202	CYC	CHB-C4A	3.40	1.48	1.40
12	H9	202	CYC	C3D-C2D	3.40	1.47	1.38
12	F6	202	CYC	CHB-C4A	3.40	1.48	1.40
12	F2	202	CYC	CHB-C4A	3.40	1.48	1.40
12	H7	201	CYC	C3D-C2D	3.40	1.47	1.38
12	Y5	201	CYC	C1D-C2D	3.40	1.49	1.41
12	P5	201	CYC	C1D-C2D	3.40	1.49	1.41
12	HA	202	CYC	C3D-C2D	3.40	1.47	1.38
12	L4	202	CYC	C3D-C2D	3.40	1.47	1.38
12	a5	201	CYC	C1D-C2D	3.39	1.49	1.41
12	JA	202	CYC	C3D-C2D	3.39	1.47	1.38
12	J9	202	CYC	C3D-C2D	3.39	1.47	1.38
12	D7	201	CYC	C1C-NC	-3.39	1.33	1.37
12	B1	202	CYC	C3D-C2D	3.39	1.47	1.38
12	TA	302	CYC	CHB-C4A	3.39	1.48	1.40
12	S1	201	CYC	C1D-C2D	3.39	1.49	1.41
12	S3	201	CYC	C1D-C2D	3.39	1.49	1.41
12	ZA	201	CYC	CHB-C4A	3.39	1.48	1.40
12	Z9	201	CYC	CHB-C4A	3.39	1.48	1.40
12	N6	101	CYC	C3D-C2D	3.39	1.47	1.38
12	D6	201	CYC	C2C-C1C	-3.39	1.49	1.52
12	C4	201	CYC	C1D-C2D	3.39	1.49	1.41
12	C8	201	CYC	C1D-C2D	3.39	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	h7	201	CYC	C1D-C2D	3.39	1.49	1.41
12	D4	202	CYC	C2C-C1C	-3.39	1.49	1.52
12	D8	202	CYC	C2C-C1C	-3.39	1.49	1.52
12	B7	201	CYC	C3D-C2D	3.39	1.47	1.38
12	D7	201	CYC	C1D-C2D	3.39	1.49	1.41
12	m7	201	CYC	C1D-C2D	3.38	1.49	1.41
12	h7	201	CYC	C3D-C2D	3.38	1.47	1.38
12	F3	201	CYC	C3D-C2D	3.38	1.47	1.38
12	F1	201	CYC	C3D-C2D	3.38	1.47	1.38
12	k5	1204	CYC	C3D-C2D	3.38	1.47	1.38
12	N2	101	CYC	C3D-C2D	3.38	1.47	1.38
12	B3	202	CYC	C3D-C2D	3.38	1.47	1.38
12	K3	201	CYC	C1D-C2D	3.38	1.49	1.41
12	K1	201	CYC	C1D-C2D	3.38	1.49	1.41
12	J7	201	CYC	C1C-NC	-3.38	1.33	1.37
12	R5	201	CYC	C3D-C2D	3.38	1.47	1.38
12	c5	201	CYC	C1D-C2D	3.38	1.49	1.41
12	v7	201	CYC	C1D-C2D	3.38	1.49	1.41
12	p7	201	CYC	C1D-C2D	3.38	1.49	1.41
12	e5	201	CYC	C1D-C2D	3.38	1.49	1.41
12	P8	201	CYC	C1D-C2D	3.38	1.49	1.41
12	B5	201	CYC	C1C-NC	-3.38	1.33	1.37
12	U4	201	CYC	C3D-C2D	3.38	1.47	1.38
12	U8	201	CYC	C3D-C2D	3.38	1.47	1.38
12	C5	201	CYC	C3D-C2D	3.38	1.47	1.38
12	I5	201	CYC	C3D-C2D	3.38	1.47	1.38
12	T5	201	CYC	C1C-NC	-3.37	1.33	1.37
12	J6	202	CYC	C3D-C2D	3.37	1.47	1.38
12	a9	901	CYC	C3D-C2D	3.37	1.47	1.38
12	B5	201	CYC	C1D-C2D	3.37	1.49	1.41
12	b7	201	CYC	C3D-C2D	3.37	1.47	1.38
12	BA	201	CYC	CHB-C4A	3.37	1.48	1.40
12	B9	201	CYC	CHB-C4A	3.37	1.48	1.40
12	F6	202	CYC	CHA-C4D	3.37	1.47	1.40
12	I6	201	CYC	C1D-C2D	3.37	1.49	1.41
12	j5	1201	CYC	C3D-C2D	3.37	1.47	1.38
12	KA	201	CYC	C1D-C2D	3.37	1.49	1.41
12	d7	201	CYC	C1D-C2D	3.37	1.49	1.41
12	K9	201	CYC	C1D-C2D	3.37	1.49	1.41
12	O1	201	CYC	C1D-C2D	3.37	1.49	1.41
12	O3	201	CYC	C1D-C2D	3.37	1.49	1.41
12	F2	202	CYC	CHA-C4D	3.37	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	EA	201	CYC	C1D-C2D	3.36	1.49	1.41
12	E9	201	CYC	C1D-C2D	3.36	1.49	1.41
12	A4	201	CYC	C1D-C2D	3.36	1.49	1.41
12	A8	201	CYC	C1D-C2D	3.36	1.49	1.41
12	H5	201	CYC	C1C-NC	-3.36	1.33	1.37
12	OA	201	CYC	C1D-C2D	3.36	1.49	1.41
12	O9	201	CYC	C1D-C2D	3.36	1.49	1.41
12	L6	202	CYC	CHA-C4D	3.36	1.47	1.40
12	Z	201	CYC	C1D-C2D	3.36	1.49	1.41
12	C2	201	CYC	C1D-C2D	3.36	1.49	1.41
12	V5	201	CYC	C1D-C2D	3.36	1.49	1.41
12	j7	201	CYC	C1D-C2D	3.36	1.49	1.41
12	D2	201	CYC	C2C-C1C	-3.36	1.49	1.52
12	H5	201	CYC	C1D-C2D	3.36	1.49	1.41
12	I5	201	CYC	C1D-C2D	3.36	1.49	1.41
12	b5	201	CYC	C1D-C2D	3.36	1.49	1.41
12	P7	201	CYC	C1D-C2D	3.36	1.49	1.41
12	Z3	202	CYC	CHB-C4A	3.36	1.48	1.40
12	Z1	201	CYC	CHB-C4A	3.36	1.48	1.40
12	N7	201	CYC	C3D-C2D	3.36	1.47	1.38
12	I3	201	CYC	C1D-C2D	3.36	1.49	1.41
12	I1	201	CYC	C1D-C2D	3.36	1.49	1.41
12	SA	201	CYC	C1D-C2D	3.35	1.49	1.41
12	L7	201	CYC	C1D-C2D	3.35	1.49	1.41
12	S9	201	CYC	C1D-C2D	3.35	1.49	1.41
12	R5	201	CYC	C1D-C2D	3.35	1.49	1.41
12	j5	1202	CYC	C1D-C2D	3.35	1.49	1.41
12	L2	202	CYC	CHA-C4D	3.35	1.47	1.40
12	F5	201	CYC	C1D-C2D	3.35	1.49	1.41
12	X5	201	CYC	C1D-C2D	3.35	1.49	1.41
12	C5	201	CYC	C1D-C2D	3.35	1.49	1.41
12	X7	201	CYC	C1D-C2D	3.35	1.49	1.41
12	V4	201	CYC	C1D-C2D	3.35	1.49	1.41
12	k5	1204	CYC	C1D-C2D	3.35	1.49	1.41
12	V8	201	CYC	C1D-C2D	3.35	1.49	1.41
12	Q1	201	CYC	C1D-C2D	3.35	1.49	1.41
12	Q3	201	CYC	C1D-C2D	3.35	1.49	1.41
12	UA	201	CYC	C1D-C2D	3.35	1.49	1.41
12	U9	201	CYC	C1D-C2D	3.35	1.49	1.41
12	C6	201	CYC	C1D-C2D	3.35	1.49	1.41
12	s7	201	CYC	C1D-C2D	3.35	1.49	1.41
12	E2	201	CYC	C1D-C2D	3.35	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	k5	1201	CYC	C3D-C2D	3.34	1.47	1.38
12	A	201	CYC	C1D-C2D	3.34	1.49	1.41
12	P4	201	CYC	C1D-C2D	3.34	1.49	1.41
12	E7	201	CYC	C1D-C2D	3.34	1.49	1.41
12	W3	201	CYC	C1D-C2D	3.34	1.49	1.41
12	K5	201	CYC	C1D-C2D	3.34	1.49	1.41
12	M7	201	CYC	C1D-C2D	3.34	1.49	1.41
12	W1	201	CYC	C1D-C2D	3.34	1.49	1.41
12	K6	201	CYC	C1D-C2D	3.34	1.49	1.41
12	T7	201	CYC	C1D-C2D	3.34	1.49	1.41
12	T5	201	CYC	C1D-C2D	3.34	1.49	1.41
12	L5	201	CYC	C1D-C2D	3.34	1.49	1.41
12	I4	201	CYC	C1D-C2D	3.34	1.49	1.41
12	I8	201	CYC	C1D-C2D	3.34	1.49	1.41
12	AA	201	CYC	C1D-C2D	3.34	1.49	1.41
12	N4	201	CYC	C1D-C2D	3.34	1.49	1.41
12	N8	201	CYC	C1D-C2D	3.34	1.49	1.41
12	A9	201	CYC	C1D-C2D	3.34	1.49	1.41
12	YA	201	CYC	C1D-C2D	3.34	1.49	1.41
12	N5	201	CYC	C1D-C2D	3.34	1.49	1.41
12	Y9	201	CYC	C1D-C2D	3.34	1.49	1.41
12	K7	201	CYC	C1D-C2D	3.34	1.49	1.41
12	C3	201	CYC	C1D-C2D	3.34	1.49	1.41
12	T4	201	CYC	C1D-C2D	3.34	1.49	1.41
12	C1	201	CYC	C1D-C2D	3.34	1.49	1.41
12	T8	201	CYC	C1D-C2D	3.34	1.49	1.41
12	e7	201	CYC	C1D-C2D	3.34	1.49	1.41
12	C7	201	CYC	C1D-C2D	3.33	1.49	1.41
12	O4	201	CYC	C3D-C2D	3.33	1.47	1.38
12	O8	201	CYC	C3D-C2D	3.33	1.47	1.38
12	k5	1202	CYC	C1D-C2D	3.33	1.49	1.41
12	F7	201	CYC	C1D-C2D	3.33	1.49	1.41
12	X4	201	CYC	C1D-C2D	3.33	1.49	1.41
12	X8	201	CYC	C1D-C2D	3.33	1.49	1.41
12	r7	201	CYC	C1D-C2D	3.33	1.49	1.41
12	R4	201	CYC	C1D-C2D	3.33	1.49	1.41
12	R8	201	CYC	C1D-C2D	3.33	1.49	1.41
12	f7	201	CYC	C1D-C2D	3.33	1.49	1.41
12	QA	201	CYC	C1D-C2D	3.33	1.49	1.41
12	E6	201	CYC	C1D-C2D	3.33	1.49	1.41
12	S7	201	CYC	C1D-C2D	3.33	1.49	1.41
12	Y7	201	CYC	C1D-C2D	3.33	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	H7	201	CYC	C1D-C2D	3.33	1.49	1.41
12	E5	201	CYC	C1D-C2D	3.33	1.49	1.41
12	W7	201	CYC	C1D-C2D	3.33	1.49	1.41
12	R7	201	CYC	C1D-C2D	3.33	1.49	1.41
12	H1	201	CYC	CHB-C4A	3.32	1.48	1.40
12	f5	201	CYC	C1D-C2D	3.32	1.49	1.41
12	W5	201	CYC	C1D-C2D	3.32	1.49	1.41
12	PA	201	CYC	CHB-C4A	3.32	1.48	1.40
12	P9	201	CYC	CHB-C4A	3.32	1.48	1.40
12	Z5	201	CYC	C1D-C2D	3.32	1.49	1.41
12	c7	201	CYC	C1D-C2D	3.32	1.49	1.41
12	G4	201	CYC	C1D-C2D	3.32	1.49	1.41
12	B7	201	CYC	C1D-C2D	3.32	1.49	1.41
12	G8	201	CYC	C1D-C2D	3.32	1.49	1.41
12	H3	202	CYC	CHB-C4A	3.32	1.48	1.40
12	N5	201	CYC	C1C-NC	-3.32	1.33	1.37
12	d5	201	CYC	C1D-C2D	3.32	1.49	1.41
12	E8	201	CYC	C1D-C2D	3.32	1.49	1.41
12	G3	201	CYC	C1D-C2D	3.32	1.49	1.41
12	I7	201	CYC	C1D-C2D	3.32	1.49	1.41
12	G1	201	CYC	C1D-C2D	3.32	1.49	1.41
12	Y3	201	CYC	C1D-C2D	3.32	1.49	1.41
12	Y1	201	CYC	C1D-C2D	3.32	1.49	1.41
12	Z3	202	CYC	C1C-NC	-3.32	1.33	1.37
12	Z1	201	CYC	C1C-NC	-3.32	1.33	1.37
12	G5	201	CYC	C1D-C2D	3.32	1.49	1.41
12	J5	201	CYC	C1D-C2D	3.32	1.49	1.41
12	V7	201	CYC	C1D-C2D	3.31	1.49	1.41
12	r7	201	CYC	C1C-NC	-3.31	1.33	1.37
12	d5	201	CYC	C1C-NC	-3.31	1.33	1.37
12	A1	201	CYC	C1D-C2D	3.31	1.49	1.41
12	A3	201	CYC	C1D-C2D	3.31	1.49	1.41
12	k5	1203	CYC	C1D-C2D	3.31	1.49	1.41
12	N7	201	CYC	C1C-NC	-3.31	1.33	1.37
12	Q7	201	CYC	C1D-C2D	3.31	1.49	1.41
12	Q9	201	CYC	C1D-C2D	3.31	1.49	1.41
12	Q5	201	CYC	C1D-C2D	3.31	1.49	1.41
12	Z	201	CYC	C1C-NC	-3.31	1.33	1.37
12	O7	201	CYC	C1D-C2D	3.31	1.49	1.41
12	V3	201	CYC	CHB-C4A	3.31	1.48	1.40
12	V1	201	CYC	CHB-C4A	3.31	1.48	1.40
12	G6	201	CYC	C1D-C2D	3.30	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	Z3	201	CYC	CHB-C4A	3.30	1.48	1.40
12	Z1	202	CYC	CHB-C4A	3.30	1.48	1.40
12	D5	201	CYC	C1D-C2D	3.30	1.49	1.41
12	U7	201	CYC	C1D-C2D	3.30	1.49	1.41
12	F7	201	CYC	C1C-NC	-3.30	1.33	1.37
12	A	201	CYC	C1C-NC	-3.30	1.33	1.37
12	o7	201	CYC	C1D-C2D	3.29	1.49	1.41
12	O5	201	CYC	C1D-C2D	3.29	1.49	1.41
12	i7	201	CYC	C1D-C2D	3.29	1.49	1.41
12	F2	201	CYC	CHB-C4A	3.29	1.48	1.40
12	L7	201	CYC	C1C-NC	-3.29	1.33	1.37
12	U5	201	CYC	C1D-C2D	3.29	1.49	1.41
12	h7	201	CYC	C1C-NC	-3.29	1.33	1.37
12	E4	201	CYC	C1D-C2D	3.29	1.49	1.41
12	ZA	202	CYC	CHB-C4A	3.29	1.48	1.40
12	Z9	202	CYC	CHB-C4A	3.29	1.48	1.40
12	CA	201	CYC	C1D-C2D	3.29	1.49	1.41
12	C9	201	CYC	C1D-C2D	3.29	1.49	1.41
12	G7	201	CYC	C1D-C2D	3.29	1.49	1.41
12	D3	202	CYC	CHB-C4A	3.29	1.48	1.40
12	D1	202	CYC	CHB-C4A	3.29	1.48	1.40
12	G2	201	CYC	C1D-C2D	3.29	1.49	1.41
12	A5	201	CYC	C1D-C2D	3.29	1.49	1.41
12	K2	201	CYC	C1D-C2D	3.28	1.49	1.41
12	X9	201	CYC	CHB-C4A	3.28	1.48	1.40
12	F6	201	CYC	C1D-C2D	3.28	1.49	1.41
12	DA	202	CYC	C1C-NC	-3.28	1.33	1.37
12	D9	202	CYC	C1C-NC	-3.28	1.33	1.37
12	TA	301	CYC	C1D-C2D	3.28	1.49	1.41
12	T9	301	CYC	C1D-C2D	3.28	1.49	1.41
12	DA	201	CYC	CHB-C4A	3.27	1.48	1.40
12	D9	201	CYC	CHB-C4A	3.27	1.48	1.40
12	D4	202	CYC	CHB-C4A	3.27	1.48	1.40
12	D8	202	CYC	CHB-C4A	3.27	1.48	1.40
12	M5	201	CYC	C1D-C2D	3.26	1.49	1.41
12	S5	201	CYC	C1D-C2D	3.26	1.49	1.41
12	N7	201	CYC	C1D-C2D	3.26	1.49	1.41
12	L5	201	CYC	C1C-NC	-3.26	1.33	1.37
12	u7	201	CYC	C1D-C2D	3.26	1.49	1.41
12	J3	202	CYC	CHB-C4A	3.26	1.48	1.40
12	aA	901	CYC	CHB-C4A	3.26	1.48	1.40
12	L2	202	CYC	C1C-NC	-3.26	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B7	201	CYC	C1C-NC	-3.26	1.33	1.37
12	F2	201	CYC	C1D-C2D	3.26	1.49	1.41
12	VA	201	CYC	CHB-C4A	3.26	1.48	1.40
12	V9	201	CYC	CHB-C4A	3.26	1.48	1.40
12	A7	201	CYC	C1D-C2D	3.25	1.49	1.41
12	k5	1203	CYC	C1C-NC	-3.25	1.33	1.37
12	R7	201	CYC	C1C-NC	-3.25	1.33	1.37
12	N2	101	CYC	CHB-C4A	3.25	1.48	1.40
12	N6	101	CYC	CHB-C4A	3.25	1.48	1.40
12	XA	201	CYC	CHB-C4A	3.25	1.48	1.40
12	R1	201	CYC	CHB-C4A	3.25	1.48	1.40
12	R3	201	CYC	CHB-C4A	3.25	1.48	1.40
12	O4	201	CYC	CHB-C4A	3.25	1.48	1.40
12	O8	201	CYC	CHB-C4A	3.25	1.48	1.40
12	W4	202	CYC	C1C-NC	-3.25	1.33	1.37
12	W8	202	CYC	C1C-NC	-3.25	1.33	1.37
12	a7	201	CYC	C1D-C2D	3.25	1.49	1.41
12	F5	201	CYC	C1C-NC	-3.24	1.33	1.37
12	DA	201	CYC	C2C-C1C	-3.24	1.49	1.52
12	D9	201	CYC	C2C-C1C	-3.24	1.49	1.52
12	P1	202	CYC	C1C-NC	-3.24	1.33	1.37
12	P7	201	CYC	C1C-NC	-3.24	1.33	1.37
12	W4	201	CYC	CHB-C4A	3.24	1.48	1.40
12	W8	201	CYC	CHB-C4A	3.24	1.48	1.40
12	LA	202	CYC	CHB-C4A	3.24	1.48	1.40
12	L9	202	CYC	CHB-C4A	3.24	1.48	1.40
12	B8	202	CYC	C2C-C1C	-3.24	1.49	1.52
12	F6	201	CYC	CHB-C4A	3.23	1.48	1.40
12	J6	202	CYC	CHB-C4A	3.23	1.48	1.40
12	P1	202	CYC	OB-C4B	3.23	1.29	1.23
12	P3	202	CYC	OB-C4B	3.23	1.29	1.23
12	k7	201	CYC	C1D-C2D	3.23	1.49	1.41
12	Z4	301	CYC	C2C-C1C	-3.23	1.49	1.52
12	FA	301	CYC	CHB-C4A	3.23	1.48	1.40
12	F9	301	CYC	CHB-C4A	3.23	1.48	1.40
12	Z5	201	CYC	C1C-NC	-3.23	1.33	1.37
12	H7	201	CYC	C1C-NC	-3.23	1.33	1.37
12	HA	202	CYC	C1D-C2D	3.23	1.49	1.41
12	D3	201	CYC	C1C-NC	-3.23	1.33	1.37
12	D1	201	CYC	C1C-NC	-3.23	1.33	1.37
12	b7	201	CYC	C1C-NC	-3.23	1.33	1.37
12	J2	202	CYC	CHB-C4A	3.22	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	J4	202	CYC	C1C-NC	-3.22	1.33	1.37
12	J8	202	CYC	C1C-NC	-3.22	1.33	1.37
12	JA	202	CYC	CHB-C4A	3.22	1.48	1.40
12	J9	202	CYC	CHB-C4A	3.22	1.48	1.40
12	LA	201	CYC	C1C-NC	-3.22	1.33	1.37
12	L9	201	CYC	C1C-NC	-3.22	1.33	1.37
12	H9	202	CYC	C1D-C2D	3.22	1.49	1.41
12	q7	201	CYC	C1D-C2D	3.22	1.49	1.41
12	d7	201	CYC	C1C-NC	-3.22	1.33	1.37
12	L2	201	CYC	CHB-C4A	3.22	1.48	1.40
12	M8	302	CYC	CHB-C4A	3.22	1.48	1.40
12	U4	201	CYC	CHB-C4A	3.22	1.48	1.40
12	U8	201	CYC	CHB-C4A	3.22	1.48	1.40
12	L6	202	CYC	C1C-NC	-3.22	1.33	1.37
12	TA	301	CYC	CHB-C4A	3.21	1.48	1.40
12	L3	202	CYC	CHB-C4A	3.21	1.48	1.40
12	T9	301	CYC	CHB-C4A	3.21	1.48	1.40
12	aA	902	CYC	CHB-C4A	3.21	1.48	1.40
12	j7	201	CYC	C1C-NC	-3.21	1.33	1.37
12	L6	201	CYC	CHB-C4A	3.21	1.48	1.40
12	RA	202	CYC	C1C-NC	-3.21	1.33	1.37
12	R9	202	CYC	C1C-NC	-3.21	1.33	1.37
12	P3	202	CYC	C1C-NC	-3.21	1.33	1.37
12	D9	202	CYC	OB-C4B	3.21	1.29	1.23
12	H4	201	CYC	CHB-C4A	3.21	1.48	1.40
12	H8	201	CYC	CHB-C4A	3.21	1.48	1.40
12	g7	201	CYC	C1D-C2D	3.21	1.49	1.41
12	B3	202	CYC	CHB-C4A	3.21	1.48	1.40
12	F4	202	CYC	CHB-C4A	3.21	1.48	1.40
12	F8	202	CYC	CHB-C4A	3.21	1.48	1.40
12	B1	202	CYC	CHB-C4A	3.21	1.48	1.40
12	M8	302	CYC	C1D-C2D	3.21	1.49	1.41
12	JA	201	CYC	OB-C4B	3.21	1.29	1.23
12	J9	201	CYC	OB-C4B	3.21	1.29	1.23
12	L4	201	CYC	C1C-NC	-3.21	1.33	1.37
12	L8	201	CYC	C1C-NC	-3.21	1.33	1.37
12	M8	301	CYC	CHB-C4A	3.20	1.48	1.40
12	D2	202	CYC	C3D-C2D	3.20	1.47	1.38
12	M4	301	CYC	CHB-C4A	3.20	1.48	1.40
12	Z8	301	CYC	C2C-C1C	-3.20	1.49	1.52
12	H2	201	CYC	CHB-C4A	3.20	1.48	1.40
12	T3	301	CYC	CHB-C4A	3.20	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	T1	301	CYC	CHB-C4A	3.20	1.48	1.40
12	BA	201	CYC	C1D-C2D	3.20	1.49	1.41
12	B9	201	CYC	C1D-C2D	3.20	1.49	1.41
12	BA	202	CYC	OB-C4B	3.20	1.29	1.23
12	B9	202	CYC	OB-C4B	3.20	1.29	1.23
12	D3	202	CYC	C1D-C2D	3.20	1.49	1.41
12	D1	202	CYC	C1D-C2D	3.20	1.49	1.41
12	O4	202	CYC	OB-C4B	3.20	1.29	1.23
12	O8	202	CYC	OB-C4B	3.20	1.29	1.23
12	X3	201	CYC	CHB-C4A	3.20	1.48	1.40
12	X1	201	CYC	CHB-C4A	3.20	1.48	1.40
12	S4	202	CYC	CHB-C4A	3.20	1.48	1.40
12	S4	202	CYC	C1D-C2D	3.20	1.49	1.41
12	p7	201	CYC	C1C-NC	-3.20	1.33	1.37
12	B3	202	CYC	C1D-C2D	3.20	1.49	1.41
12	B8	202	CYC	CHB-C4A	3.19	1.48	1.40
12	I9	201	CYC	C1D-C2D	3.19	1.49	1.41
12	j5	1202	CYC	C1C-NC	-3.19	1.33	1.37
12	B4	202	CYC	CHB-C4A	3.19	1.48	1.40
12	EA	201	CYC	C3D-C2D	3.19	1.47	1.38
12	E9	201	CYC	C3D-C2D	3.19	1.47	1.38
12	R1	201	CYC	C1D-C2D	3.19	1.49	1.41
12	R3	201	CYC	C1D-C2D	3.19	1.49	1.41
12	F4	202	CYC	C1D-C2D	3.19	1.49	1.41
12	F8	202	CYC	C1D-C2D	3.19	1.49	1.41
12	B4	201	CYC	OB-C4B	3.19	1.29	1.23
12	B8	201	CYC	OB-C4B	3.19	1.29	1.23
12	IA	201	CYC	C1D-C2D	3.19	1.49	1.41
12	I2	201	CYC	OB-C4B	3.19	1.29	1.23
12	B8	202	CYC	C1D-C2D	3.19	1.49	1.41
12	U4	202	CYC	C1C-NC	-3.19	1.33	1.37
12	U8	202	CYC	C1C-NC	-3.19	1.33	1.37
12	f5	201	CYC	C1C-NC	-3.18	1.33	1.37
12	H6	201	CYC	CHB-C4A	3.18	1.48	1.40
12	H4	201	CYC	C1D-C2D	3.18	1.49	1.41
12	H8	201	CYC	C1D-C2D	3.18	1.49	1.41
12	RA	201	CYC	CHB-C4A	3.18	1.47	1.40
12	R9	201	CYC	CHB-C4A	3.18	1.47	1.40
12	XA	202	CYC	OB-C4B	3.18	1.29	1.23
12	X9	202	CYC	OB-C4B	3.18	1.29	1.23
12	DA	202	CYC	OB-C4B	3.18	1.29	1.23
12	J4	201	CYC	CHB-C4A	3.18	1.47	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	J8	201	CYC	CHB-C4A	3.18	1.47	1.40
12	XA	202	CYC	C1C-NC	-3.18	1.33	1.37
12	X9	202	CYC	C1C-NC	-3.18	1.33	1.37
12	Z3	202	CYC	C3D-C2D	3.18	1.47	1.38
12	Z1	201	CYC	C3D-C2D	3.18	1.47	1.38
12	D4	201	CYC	C1C-NC	-3.18	1.33	1.37
12	HA	202	CYC	CHB-C4A	3.18	1.47	1.40
12	Y4	201	CYC	OB-C4B	3.17	1.29	1.23
12	Q8	201	CYC	OB-C4B	3.17	1.29	1.23
12	Y8	201	CYC	OB-C4B	3.17	1.29	1.23
12	L3	201	CYC	C1C-NC	-3.17	1.33	1.37
12	L1	201	CYC	C1C-NC	-3.17	1.33	1.37
12	J2	202	CYC	C1D-C2D	3.17	1.49	1.41
12	J6	202	CYC	C1D-C2D	3.17	1.49	1.41
12	Z8	301	CYC	CHB-C4A	3.17	1.47	1.40
12	v7	201	CYC	C1C-NC	-3.16	1.33	1.37
12	D5	201	CYC	C1C-NC	-3.16	1.33	1.37
12	D4	201	CYC	OB-C4B	3.16	1.29	1.23
12	I6	201	CYC	OB-C4B	3.16	1.29	1.23
12	D8	201	CYC	OB-C4B	3.16	1.29	1.23
12	B4	202	CYC	C1D-C2D	3.16	1.49	1.41
12	R4	201	CYC	C3D-C2D	3.16	1.47	1.38
12	R8	201	CYC	C3D-C2D	3.16	1.47	1.38
12	D2	201	CYC	CHB-C4A	3.16	1.47	1.40
12	Y4	201	CYC	C1C-NC	-3.16	1.33	1.37
12	Y8	201	CYC	C1C-NC	-3.16	1.33	1.37
12	H9	202	CYC	CHB-C4A	3.16	1.47	1.40
12	B1	202	CYC	C1D-C2D	3.16	1.49	1.41
12	U4	201	CYC	C1D-C2D	3.16	1.49	1.41
12	U8	201	CYC	C1D-C2D	3.16	1.49	1.41
12	F3	201	CYC	C1D-C2D	3.16	1.49	1.41
12	F1	201	CYC	C1D-C2D	3.16	1.49	1.41
12	FA	301	CYC	C1D-C2D	3.16	1.49	1.41
12	F9	301	CYC	C1D-C2D	3.16	1.49	1.41
12	b5	201	CYC	C1C-NC	-3.16	1.33	1.37
12	O4	201	CYC	C1D-C2D	3.15	1.49	1.41
12	O8	201	CYC	C1D-C2D	3.15	1.49	1.41
12	F3	201	CYC	CHB-C4A	3.15	1.47	1.40
12	F1	201	CYC	CHB-C4A	3.15	1.47	1.40
12	D6	202	CYC	C3D-C2D	3.15	1.47	1.38
12	S4	201	CYC	OB-C4B	3.15	1.29	1.23
12	S8	201	CYC	OB-C4B	3.15	1.29	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	H3	201	CYC	C3D-C2D	3.15	1.47	1.38
12	H1	202	CYC	C3D-C2D	3.15	1.47	1.38
12	Q4	201	CYC	C3D-C2D	3.15	1.47	1.38
12	D9	202	CYC	C3D-C2D	3.15	1.47	1.38
12	L9	201	CYC	C3D-C2D	3.15	1.47	1.38
12	P1	201	CYC	C2C-C1C	-3.14	1.49	1.52
12	P3	201	CYC	C2C-C1C	-3.14	1.49	1.52
12	D4	201	CYC	C3D-C2D	3.14	1.47	1.38
12	D8	201	CYC	C3D-C2D	3.14	1.47	1.38
12	J8	201	CYC	C2C-C1C	-3.14	1.49	1.52
12	Q8	201	CYC	C3D-C2D	3.14	1.47	1.38
12	Q4	201	CYC	OB-C4B	3.14	1.29	1.23
12	d5	201	CYC	C2C-C1C	-3.14	1.49	1.52
12	E6	201	CYC	C3D-C2D	3.14	1.47	1.38
12	H2	202	CYC	C1C-NC	-3.14	1.33	1.37
12	H6	202	CYC	C1C-NC	-3.14	1.33	1.37
12	D6	202	CYC	OB-C4B	3.14	1.29	1.23
12	D2	202	CYC	OB-C4B	3.14	1.29	1.23
12	BA	202	CYC	C1C-NC	-3.14	1.33	1.37
12	B9	202	CYC	C1C-NC	-3.14	1.33	1.37
12	ZA	202	CYC	C2C-C1C	-3.14	1.49	1.52
12	Z9	202	CYC	C2C-C1C	-3.14	1.49	1.52
12	N2	101	CYC	C1D-C2D	3.14	1.49	1.41
12	O4	202	CYC	C1C-NC	-3.14	1.33	1.37
12	O8	202	CYC	C1C-NC	-3.14	1.33	1.37
12	H3	201	CYC	C1C-NC	-3.14	1.33	1.37
12	H1	202	CYC	C1C-NC	-3.14	1.33	1.37
12	VA	202	CYC	C3D-C2D	3.14	1.47	1.38
12	V9	202	CYC	C3D-C2D	3.14	1.47	1.38
12	L3	202	CYC	C1D-C2D	3.14	1.48	1.41
12	aA	902	CYC	C1D-C2D	3.14	1.48	1.41
12	V9	202	CYC	C1C-NC	-3.14	1.33	1.37
12	D6	201	CYC	CHB-C4A	3.14	1.47	1.40
12	ZA	201	CYC	C1C-NC	-3.13	1.33	1.37
12	Y8	201	CYC	C3D-C2D	3.13	1.47	1.38
12	N6	101	CYC	C1D-C2D	3.13	1.48	1.41
12	J6	202	CYC	C2C-C1C	-3.13	1.49	1.52
12	Y3	201	CYC	C3D-C2D	3.13	1.47	1.38
12	Y1	201	CYC	C3D-C2D	3.13	1.47	1.38
12	H4	202	CYC	C1C-NC	-3.13	1.33	1.37
12	H8	202	CYC	C1C-NC	-3.13	1.33	1.37
12	S1	201	CYC	C3D-C2D	3.13	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	S3	201	CYC	C3D-C2D	3.13	1.47	1.38
12	E2	201	CYC	C3D-C2D	3.13	1.47	1.38
12	H4	202	CYC	C3D-C2D	3.13	1.47	1.38
12	B4	201	CYC	C1C-NC	-3.13	1.33	1.37
12	B8	201	CYC	C1C-NC	-3.13	1.33	1.37
12	J6	201	CYC	C1C-NC	-3.13	1.33	1.37
12	D8	201	CYC	C1C-NC	-3.13	1.33	1.37
12	Z9	201	CYC	C1C-NC	-3.13	1.33	1.37
12	B2	201	CYC	C1C-NC	-3.13	1.33	1.37
12	LA	201	CYC	C3D-C2D	3.13	1.47	1.38
12	JA	202	CYC	C1D-C2D	3.13	1.48	1.41
12	J9	202	CYC	C1D-C2D	3.13	1.48	1.41
12	J4	201	CYC	C1D-C2D	3.13	1.48	1.41
12	J8	201	CYC	C1D-C2D	3.13	1.48	1.41
12	P3	201	CYC	C1D-C2D	3.13	1.48	1.41
12	C3	201	CYC	C3D-C2D	3.13	1.47	1.38
12	C1	201	CYC	C3D-C2D	3.13	1.47	1.38
12	PA	202	CYC	OB-C4B	3.13	1.29	1.23
12	DA	202	CYC	C3D-C2D	3.13	1.47	1.38
12	VA	201	CYC	C1D-C2D	3.13	1.48	1.41
12	H2	201	CYC	C1D-C2D	3.13	1.48	1.41
12	H6	201	CYC	C1D-C2D	3.13	1.48	1.41
12	V9	201	CYC	C1D-C2D	3.13	1.48	1.41
12	P1	201	CYC	CHB-C4A	3.13	1.47	1.40
12	P3	201	CYC	CHB-C4A	3.13	1.47	1.40
12	D3	201	CYC	C3D-C2D	3.13	1.47	1.38
12	D1	201	CYC	C3D-C2D	3.13	1.47	1.38
12	D6	202	CYC	C1C-NC	-3.13	1.33	1.37
12	V7	201	CYC	C1C-NC	-3.13	1.33	1.37
12	W4	201	CYC	C2C-C1C	-3.12	1.49	1.52
12	W8	201	CYC	C2C-C1C	-3.12	1.49	1.52
12	D4	202	CYC	C1D-C2D	3.12	1.48	1.41
12	D8	202	CYC	C1D-C2D	3.12	1.48	1.41
12	Z4	301	CYC	CHB-C4A	3.12	1.47	1.40
12	J4	201	CYC	C2C-C1C	-3.12	1.49	1.52
12	K4	201	CYC	C3D-C2D	3.12	1.47	1.38
12	K8	201	CYC	C3D-C2D	3.12	1.47	1.38
12	A1	201	CYC	C3D-C2D	3.12	1.47	1.38
12	A3	201	CYC	C3D-C2D	3.12	1.47	1.38
12	X5	201	CYC	C1C-NC	-3.12	1.33	1.37
12	T3	301	CYC	C1D-C2D	3.12	1.48	1.41
12	T1	301	CYC	C1D-C2D	3.12	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	TA	302	CYC	C3D-C2D	3.12	1.47	1.38
12	T9	302	CYC	C3D-C2D	3.12	1.47	1.38
12	B6	201	CYC	OB-C4B	3.12	1.29	1.23
12	L8	201	CYC	OB-C4B	3.12	1.29	1.23
12	P1	201	CYC	C1D-C2D	3.11	1.48	1.41
12	IA	201	CYC	C3D-C2D	3.11	1.47	1.38
12	I9	201	CYC	C3D-C2D	3.11	1.47	1.38
12	Z8	301	CYC	C1C-NC	-3.11	1.33	1.37
12	B1	202	CYC	C2C-C1C	-3.11	1.49	1.52
12	Q8	201	CYC	C1C-NC	-3.11	1.33	1.37
12	D3	201	CYC	OB-C4B	3.11	1.29	1.23
12	D1	201	CYC	OB-C4B	3.11	1.29	1.23
12	J5	201	CYC	C1C-NC	-3.11	1.33	1.37
12	RA	201	CYC	C1D-C2D	3.11	1.48	1.41
12	R9	201	CYC	C1D-C2D	3.11	1.48	1.41
12	J3	202	CYC	C1D-C2D	3.11	1.48	1.41
12	aA	901	CYC	C1D-C2D	3.11	1.48	1.41
12	E4	201	CYC	C3D-C2D	3.11	1.47	1.38
12	E8	201	CYC	C3D-C2D	3.11	1.47	1.38
12	D9	201	CYC	C1D-C2D	3.11	1.48	1.41
12	R1	202	CYC	C1C-NC	-3.11	1.33	1.37
12	R3	202	CYC	C1C-NC	-3.11	1.33	1.37
12	Y4	201	CYC	C3D-C2D	3.11	1.47	1.38
12	Z5	201	CYC	C2C-C1C	-3.11	1.49	1.52
12	V3	201	CYC	C1D-C2D	3.11	1.48	1.41
12	V1	201	CYC	C1D-C2D	3.11	1.48	1.41
12	E6	201	CYC	OB-C4B	3.11	1.29	1.23
12	E2	201	CYC	OB-C4B	3.11	1.29	1.23
12	P5	201	CYC	C1C-NC	-3.11	1.33	1.37
12	VA	202	CYC	C1C-NC	-3.11	1.33	1.37
12	Q4	201	CYC	C1C-NC	-3.11	1.33	1.37
12	L6	201	CYC	C1D-C2D	3.11	1.48	1.41
12	L4	202	CYC	CHB-C4A	3.11	1.47	1.40
12	PA	202	CYC	C3D-C2D	3.11	1.47	1.38
12	P9	202	CYC	C3D-C2D	3.11	1.47	1.38
12	J2	201	CYC	C1C-NC	-3.11	1.33	1.37
12	SA	201	CYC	C3D-C2D	3.10	1.47	1.38
12	S9	201	CYC	C3D-C2D	3.10	1.47	1.38
12	G3	201	CYC	C3D-C2D	3.10	1.47	1.38
12	G1	201	CYC	C3D-C2D	3.10	1.47	1.38
12	B4	202	CYC	C2C-C1C	-3.10	1.49	1.52
12	H8	202	CYC	C3D-C2D	3.10	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B3	201	CYC	C3D-C2D	3.10	1.47	1.38
12	B1	201	CYC	C3D-C2D	3.10	1.47	1.38
12	U4	202	CYC	C3D-C2D	3.10	1.47	1.38
12	U8	202	CYC	C3D-C2D	3.10	1.47	1.38
12	W4	201	CYC	C1D-C2D	3.10	1.48	1.41
12	W8	201	CYC	C1D-C2D	3.10	1.48	1.41
12	V5	201	CYC	C1C-NC	-3.10	1.33	1.37
12	N4	201	CYC	C3D-C2D	3.10	1.47	1.38
12	N8	201	CYC	C3D-C2D	3.10	1.47	1.38
12	I3	201	CYC	OB-C4B	3.10	1.29	1.23
12	F9	303	CYC	OB-C4B	3.10	1.29	1.23
12	I1	201	CYC	OB-C4B	3.10	1.29	1.23
12	B3	201	CYC	OB-C4B	3.10	1.29	1.23
12	L3	201	CYC	OB-C4B	3.10	1.29	1.23
12	B1	201	CYC	OB-C4B	3.10	1.29	1.23
12	L1	201	CYC	OB-C4B	3.10	1.29	1.23
12	a9	901	CYC	CHB-C4A	3.10	1.47	1.40
12	H4	202	CYC	OB-C4B	3.10	1.29	1.23
12	H8	202	CYC	OB-C4B	3.10	1.29	1.23
12	F9	302	CYC	OB-C4B	3.10	1.29	1.23
12	A4	201	CYC	C3D-C2D	3.10	1.47	1.38
12	A8	201	CYC	C3D-C2D	3.10	1.47	1.38
12	W4	202	CYC	OB-C4B	3.10	1.29	1.23
12	W8	202	CYC	OB-C4B	3.10	1.29	1.23
12	CA	201	CYC	C3D-C2D	3.10	1.47	1.38
12	C9	201	CYC	C3D-C2D	3.10	1.47	1.38
12	DA	201	CYC	C1D-C2D	3.10	1.48	1.41
12	W3	201	CYC	C3D-C2D	3.10	1.47	1.38
12	W1	201	CYC	C3D-C2D	3.10	1.47	1.38
12	HA	201	CYC	C1C-NC	-3.10	1.33	1.37
12	k5	1204	CYC	C1C-NC	-3.10	1.33	1.37
12	H9	201	CYC	C1C-NC	-3.10	1.33	1.37
12	YA	201	CYC	OB-C4B	3.09	1.29	1.23
12	Y9	201	CYC	OB-C4B	3.09	1.29	1.23
12	PA	201	CYC	C1D-C2D	3.09	1.48	1.41
12	P9	201	CYC	C1D-C2D	3.09	1.48	1.41
12	F4	201	CYC	C3D-C2D	3.09	1.47	1.38
12	F8	201	CYC	C3D-C2D	3.09	1.47	1.38
12	V3	202	CYC	C3D-C2D	3.09	1.47	1.38
12	V1	202	CYC	C3D-C2D	3.09	1.47	1.38
12	B6	201	CYC	C1C-NC	-3.09	1.33	1.37
12	S4	202	CYC	C2C-C1C	-3.09	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	I3	201	CYC	C3D-C2D	3.09	1.47	1.38
12	I1	201	CYC	C3D-C2D	3.09	1.47	1.38
12	E3	201	CYC	C3D-C2D	3.09	1.47	1.38
12	G8	201	CYC	C3D-C2D	3.09	1.47	1.38
12	D6	201	CYC	C1D-C2D	3.09	1.48	1.41
12	PA	201	CYC	C2C-C1C	-3.09	1.49	1.52
12	BA	202	CYC	C3D-C2D	3.09	1.47	1.38
12	B9	202	CYC	C3D-C2D	3.09	1.47	1.38
12	V3	202	CYC	OB-C4B	3.09	1.29	1.23
12	V1	202	CYC	OB-C4B	3.09	1.29	1.23
12	X3	201	CYC	C1D-C2D	3.09	1.48	1.41
12	X1	201	CYC	C1D-C2D	3.09	1.48	1.41
12	H2	202	CYC	C3D-C2D	3.09	1.47	1.38
12	H6	202	CYC	C3D-C2D	3.09	1.47	1.38
12	D2	201	CYC	C1D-C2D	3.09	1.48	1.41
12	YA	201	CYC	C3D-C2D	3.09	1.47	1.38
12	Y9	201	CYC	C3D-C2D	3.09	1.47	1.38
12	J1	201	CYC	C1C-NC	-3.09	1.33	1.37
12	B6	201	CYC	C3D-C2D	3.09	1.47	1.38
12	L3	202	CYC	C2C-C1C	-3.09	1.49	1.52
12	aA	902	CYC	C2C-C1C	-3.09	1.49	1.52
12	a9	901	CYC	C1D-C2D	3.09	1.48	1.41
12	M8	302	CYC	C2C-C1C	-3.09	1.49	1.52
12	G3	201	CYC	OB-C4B	3.09	1.29	1.23
12	G1	201	CYC	OB-C4B	3.09	1.29	1.23
12	L4	202	CYC	C1D-C2D	3.08	1.48	1.41
12	Z3	201	CYC	C1D-C2D	3.08	1.48	1.41
12	Z1	202	CYC	C1D-C2D	3.08	1.48	1.41
12	LA	202	CYC	C1D-C2D	3.08	1.48	1.41
12	L9	202	CYC	C1D-C2D	3.08	1.48	1.41
12	Q3	201	CYC	C3D-C2D	3.08	1.46	1.38
12	X9	202	CYC	C3D-C2D	3.08	1.46	1.38
12	B2	201	CYC	C3D-C2D	3.08	1.46	1.38
12	K3	201	CYC	C3D-C2D	3.08	1.46	1.38
12	K1	201	CYC	C3D-C2D	3.08	1.46	1.38
12	LA	202	CYC	C2C-C1C	-3.08	1.49	1.52
12	H2	201	CYC	C2C-C1C	-3.08	1.49	1.52
12	D3	202	CYC	C2C-C1C	-3.08	1.49	1.52
12	D1	202	CYC	C2C-C1C	-3.08	1.49	1.52
12	L9	202	CYC	C2C-C1C	-3.08	1.49	1.52
12	L4	201	CYC	OB-C4B	3.08	1.29	1.23
12	P9	202	CYC	OB-C4B	3.08	1.29	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	R1	202	CYC	C3D-C2D	3.08	1.46	1.38
12	R3	202	CYC	C3D-C2D	3.08	1.46	1.38
12	GA	201	CYC	OB-C4B	3.08	1.29	1.23
12	G9	201	CYC	OB-C4B	3.08	1.29	1.23
12	R5	201	CYC	C1C-NC	-3.08	1.33	1.37
12	X7	201	CYC	C1C-NC	-3.08	1.33	1.37
12	J4	202	CYC	OB-C4B	3.08	1.29	1.23
12	J8	202	CYC	OB-C4B	3.08	1.29	1.23
12	WA	201	CYC	C3D-C2D	3.08	1.46	1.38
12	W9	201	CYC	C3D-C2D	3.08	1.46	1.38
12	F6	202	CYC	OB-C4B	3.08	1.29	1.23
12	X9	201	CYC	C1D-C2D	3.08	1.48	1.41
12	J2	202	CYC	C2C-C1C	-3.08	1.49	1.52
12	L2	201	CYC	C1D-C2D	3.07	1.48	1.41
12	V3	202	CYC	C1C-NC	-3.07	1.33	1.37
12	F9	302	CYC	C1C-NC	-3.07	1.33	1.37
12	V1	202	CYC	C1C-NC	-3.07	1.33	1.37
12	B3	202	CYC	C2C-C1C	-3.07	1.49	1.52
12	KA	201	CYC	OB-C4B	3.07	1.29	1.23
12	K9	201	CYC	OB-C4B	3.07	1.29	1.23
12	F2	202	CYC	C3D-C2D	3.07	1.46	1.38
12	W4	202	CYC	C3D-C2D	3.07	1.46	1.38
12	W8	202	CYC	C3D-C2D	3.07	1.46	1.38
12	O4	201	CYC	C2C-C1C	-3.07	1.49	1.52
12	N6	101	CYC	C2C-C1C	-3.07	1.49	1.52
12	O8	201	CYC	C2C-C1C	-3.07	1.49	1.52
12	U3	201	CYC	C3D-C2D	3.07	1.46	1.38
12	U1	201	CYC	C3D-C2D	3.07	1.46	1.38
12	E1	201	CYC	C3D-C2D	3.07	1.46	1.38
12	F4	201	CYC	OB-C4B	3.07	1.29	1.23
12	RA	202	CYC	C3D-C2D	3.07	1.46	1.38
12	R9	202	CYC	C3D-C2D	3.07	1.46	1.38
12	XA	202	CYC	C3D-C2D	3.07	1.46	1.38
12	UA	201	CYC	C3D-C2D	3.06	1.46	1.38
12	U9	201	CYC	C3D-C2D	3.06	1.46	1.38
12	ZA	202	CYC	C1D-C2D	3.06	1.48	1.41
12	Z9	202	CYC	C1D-C2D	3.06	1.48	1.41
12	G4	201	CYC	C3D-C2D	3.06	1.46	1.38
12	Z3	202	CYC	OB-C4B	3.06	1.29	1.23
12	Z1	201	CYC	OB-C4B	3.06	1.29	1.23
12	S4	201	CYC	C1C-NC	-3.06	1.33	1.37
12	S8	201	CYC	C1C-NC	-3.06	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	Q1	201	CYC	C3D-C2D	3.06	1.46	1.38
12	F8	201	CYC	OB-C4B	3.06	1.29	1.23
12	X3	202	CYC	C3D-C2D	3.06	1.46	1.38
12	A6	201	CYC	C3D-C2D	3.06	1.46	1.38
12	K9	201	CYC	C3D-C2D	3.06	1.46	1.38
12	X1	202	CYC	C3D-C2D	3.06	1.46	1.38
12	A2	201	CYC	C3D-C2D	3.06	1.46	1.38
12	J2	201	CYC	OB-C4B	3.06	1.29	1.23
12	B4	201	CYC	C3D-C2D	3.06	1.46	1.38
12	I4	201	CYC	C3D-C2D	3.06	1.46	1.38
12	I8	201	CYC	C3D-C2D	3.06	1.46	1.38
12	F2	202	CYC	OB-C4B	3.06	1.29	1.23
12	D2	202	CYC	C1C-NC	-3.06	1.33	1.37
12	T3	302	CYC	C3D-C2D	3.06	1.46	1.38
12	T4	201	CYC	C3D-C2D	3.06	1.46	1.38
12	T8	201	CYC	C3D-C2D	3.06	1.46	1.38
12	T1	302	CYC	C3D-C2D	3.06	1.46	1.38
12	K2	201	CYC	C3D-C2D	3.06	1.46	1.38
12	O1	201	CYC	C3D-C2D	3.06	1.46	1.38
12	O3	201	CYC	C3D-C2D	3.06	1.46	1.38
12	H3	202	CYC	C1D-C2D	3.06	1.48	1.41
12	B8	201	CYC	C3D-C2D	3.05	1.46	1.38
12	KA	201	CYC	C3D-C2D	3.05	1.46	1.38
12	B5	201	CYC	C2C-C1C	-3.05	1.49	1.52
12	O4	202	CYC	C3D-C2D	3.05	1.46	1.38
12	O8	202	CYC	C3D-C2D	3.05	1.46	1.38
12	F9	302	CYC	C3D-C2D	3.05	1.46	1.38
12	F2	201	CYC	C1C-NC	-3.05	1.33	1.37
12	K6	201	CYC	C3D-C2D	3.05	1.46	1.38
12	J4	202	CYC	C3D-C2D	3.05	1.46	1.38
12	J8	202	CYC	C3D-C2D	3.05	1.46	1.38
12	K3	201	CYC	OB-C4B	3.05	1.29	1.23
12	K1	201	CYC	OB-C4B	3.05	1.29	1.23
12	J3	201	CYC	C1C-NC	-3.05	1.33	1.37
12	H2	202	CYC	OB-C4B	3.05	1.29	1.23
12	T3	302	CYC	OB-C4B	3.05	1.29	1.23
12	E8	201	CYC	OB-C4B	3.05	1.29	1.23
12	B2	201	CYC	OB-C4B	3.05	1.29	1.23
12	W9	201	CYC	OB-C4B	3.04	1.29	1.23
12	XA	201	CYC	C1D-C2D	3.04	1.48	1.41
12	H1	201	CYC	C1D-C2D	3.04	1.48	1.41
12	T1	302	CYC	OB-C4B	3.04	1.29	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	Z8	301	CYC	C1D-C2D	3.04	1.48	1.41
12	EA	201	CYC	OB-C4B	3.04	1.29	1.23
12	E9	201	CYC	OB-C4B	3.04	1.29	1.23
12	P7	201	CYC	C2C-C1C	-3.04	1.49	1.52
12	Z4	301	CYC	C1C-NC	-3.04	1.33	1.37
12	J6	201	CYC	C3D-C2D	3.03	1.46	1.38
12	RA	201	CYC	C2C-C1C	-3.03	1.49	1.52
12	H5	201	CYC	C2C-C1C	-3.03	1.49	1.52
12	R9	201	CYC	C2C-C1C	-3.03	1.49	1.52
12	G4	201	CYC	OB-C4B	3.03	1.29	1.23
12	G8	201	CYC	OB-C4B	3.03	1.29	1.23
12	F9	303	CYC	C3D-C2D	3.03	1.46	1.38
12	VA	202	CYC	OB-C4B	3.03	1.29	1.23
12	V9	202	CYC	OB-C4B	3.03	1.29	1.23
12	J7	201	CYC	C2C-C1C	-3.03	1.49	1.52
12	I2	201	CYC	C3D-C2D	3.03	1.46	1.38
12	F9	303	CYC	C1C-NC	-3.03	1.33	1.37
12	X4	201	CYC	C3D-C2D	3.03	1.46	1.38
12	X8	201	CYC	C3D-C2D	3.03	1.46	1.38
12	C2	201	CYC	C3D-C2D	3.03	1.46	1.38
12	JA	202	CYC	C1C-NC	-3.03	1.33	1.37
12	J9	202	CYC	C1C-NC	-3.03	1.33	1.37
12	T1	302	CYC	C1C-NC	-3.03	1.33	1.37
12	D7	201	CYC	C2C-C1C	-3.03	1.49	1.52
12	F6	202	CYC	C3D-C2D	3.03	1.46	1.38
12	P1	202	CYC	C3D-C2D	3.03	1.46	1.38
12	G2	201	CYC	C3D-C2D	3.03	1.46	1.38
12	G6	201	CYC	C3D-C2D	3.03	1.46	1.38
12	T4	201	CYC	OB-C4B	3.03	1.29	1.23
12	T8	201	CYC	OB-C4B	3.03	1.29	1.23
12	L3	201	CYC	C3D-C2D	3.03	1.46	1.38
12	L1	201	CYC	C3D-C2D	3.03	1.46	1.38
12	I4	201	CYC	OB-C4B	3.03	1.29	1.23
12	X4	201	CYC	OB-C4B	3.03	1.29	1.23
12	H6	202	CYC	OB-C4B	3.03	1.29	1.23
12	X8	201	CYC	OB-C4B	3.03	1.29	1.23
12	I8	201	CYC	OB-C4B	3.03	1.29	1.23
12	I6	201	CYC	C3D-C2D	3.03	1.46	1.38
12	ZA	201	CYC	C3D-C2D	3.03	1.46	1.38
12	Z9	201	CYC	C3D-C2D	3.03	1.46	1.38
12	H3	201	CYC	OB-C4B	3.03	1.29	1.23
12	H1	202	CYC	OB-C4B	3.03	1.29	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	TA	302	CYC	C1C-NC	-3.02	1.33	1.37
12	T9	302	CYC	C1C-NC	-3.02	1.33	1.37
12	M4	301	CYC	C1D-C2D	3.02	1.48	1.41
12	N8	201	CYC	OB-C4B	3.02	1.29	1.23
12	L2	202	CYC	C3D-C2D	3.02	1.46	1.38
12	L6	202	CYC	C3D-C2D	3.02	1.46	1.38
12	ZA	202	CYC	C1C-NC	-3.02	1.33	1.37
12	Z9	202	CYC	C1C-NC	-3.02	1.33	1.37
12	HA	201	CYC	OB-C4B	3.02	1.29	1.23
12	H9	201	CYC	OB-C4B	3.02	1.29	1.23
12	B3	201	CYC	C1C-NC	-3.02	1.33	1.37
12	X3	202	CYC	C1C-NC	-3.02	1.33	1.37
12	B1	201	CYC	C1C-NC	-3.02	1.33	1.37
12	F4	201	CYC	C1C-NC	-3.02	1.33	1.37
12	F8	201	CYC	C1C-NC	-3.02	1.33	1.37
12	X1	202	CYC	C1C-NC	-3.02	1.33	1.37
12	BA	201	CYC	C1C-NC	-3.02	1.33	1.37
12	B9	201	CYC	C1C-NC	-3.02	1.33	1.37
12	J6	201	CYC	OB-C4B	3.02	1.29	1.23
12	HA	201	CYC	C3D-C2D	3.02	1.46	1.38
12	H9	201	CYC	C3D-C2D	3.02	1.46	1.38
12	SA	201	CYC	OB-C4B	3.01	1.29	1.23
12	S9	201	CYC	OB-C4B	3.01	1.29	1.23
12	HA	202	CYC	C1C-NC	-3.01	1.33	1.37
12	P4	201	CYC	C3D-C2D	3.01	1.46	1.38
12	P8	201	CYC	C3D-C2D	3.01	1.46	1.38
12	L4	201	CYC	C3D-C2D	3.01	1.46	1.38
12	L8	201	CYC	C3D-C2D	3.01	1.46	1.38
12	WA	201	CYC	OB-C4B	3.01	1.29	1.23
12	C6	201	CYC	OB-C4B	3.01	1.29	1.23
12	H3	202	CYC	C1C-NC	-3.01	1.33	1.37
12	H6	201	CYC	C1C-NC	-3.01	1.33	1.37
12	J2	201	CYC	C3D-C2D	3.01	1.46	1.38
12	E3	201	CYC	OB-C4B	3.01	1.29	1.23
12	E1	201	CYC	OB-C4B	3.01	1.29	1.23
12	J3	202	CYC	C2C-C1C	-3.01	1.49	1.52
12	aA	901	CYC	C2C-C1C	-3.01	1.49	1.52
12	JA	201	CYC	C3D-C2D	3.01	1.46	1.38
12	J9	201	CYC	C3D-C2D	3.01	1.46	1.38
12	RA	202	CYC	OB-C4B	3.01	1.29	1.23
12	R9	202	CYC	OB-C4B	3.01	1.29	1.23
12	F1	202	CYC	C3D-C2D	3.01	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	M8	301	CYC	C1C-NC	-3.01	1.33	1.37
12	P3	202	CYC	C3D-C2D	3.01	1.46	1.38
12	T3	301	CYC	C2C-C1C	-3.01	1.49	1.52
12	T1	301	CYC	C2C-C1C	-3.01	1.49	1.52
12	E4	201	CYC	OB-C4B	3.01	1.29	1.23
12	R4	201	CYC	OB-C4B	3.01	1.29	1.23
12	R8	201	CYC	OB-C4B	3.01	1.29	1.23
12	C4	201	CYC	C3D-C2D	3.00	1.46	1.38
12	C8	201	CYC	C3D-C2D	3.00	1.46	1.38
12	J4	201	CYC	C1C-NC	-3.00	1.33	1.37
12	J8	201	CYC	C1C-NC	-3.00	1.33	1.37
12	C6	201	CYC	C3D-C2D	3.00	1.46	1.38
12	IA	201	CYC	OB-C4B	3.00	1.29	1.23
12	I9	201	CYC	OB-C4B	3.00	1.29	1.23
12	AA	201	CYC	C3D-C2D	3.00	1.46	1.38
12	A9	201	CYC	C3D-C2D	3.00	1.46	1.38
12	Q9	201	CYC	C3D-C2D	3.00	1.46	1.38
12	S4	201	CYC	C3D-C2D	3.00	1.46	1.38
12	S8	201	CYC	C3D-C2D	3.00	1.46	1.38
12	Z4	301	CYC	C1D-C2D	2.99	1.48	1.41
12	P9	201	CYC	C2C-C1C	-2.99	1.49	1.52
12	GA	201	CYC	C3D-C2D	2.99	1.46	1.38
12	G9	201	CYC	C3D-C2D	2.99	1.46	1.38
12	J3	201	CYC	OB-C4B	2.99	1.29	1.23
12	U3	201	CYC	OB-C4B	2.99	1.29	1.23
12	N4	201	CYC	OB-C4B	2.99	1.29	1.23
12	J1	201	CYC	OB-C4B	2.99	1.29	1.23
12	U1	201	CYC	OB-C4B	2.99	1.29	1.23
12	T3	302	CYC	C1C-NC	-2.99	1.33	1.37
12	R1	202	CYC	OB-C4B	2.99	1.29	1.23
12	R3	202	CYC	OB-C4B	2.99	1.29	1.23
12	S1	201	CYC	OB-C4B	2.99	1.29	1.23
12	S3	201	CYC	OB-C4B	2.99	1.29	1.23
12	K4	201	CYC	OB-C4B	2.99	1.29	1.23
12	K8	201	CYC	OB-C4B	2.99	1.29	1.23
12	F3	202	CYC	OB-C4B	2.99	1.29	1.23
12	F1	202	CYC	OB-C4B	2.99	1.29	1.23
12	JA	201	CYC	C1C-NC	-2.99	1.33	1.37
12	LA	201	CYC	OB-C4B	2.99	1.29	1.23
12	L9	201	CYC	OB-C4B	2.99	1.29	1.23
12	F3	202	CYC	C3D-C2D	2.99	1.46	1.38
12	d5	201	CYC	C1B-C2B	2.99	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	X3	202	CYC	OB-C4B	2.98	1.29	1.23
12	X1	202	CYC	OB-C4B	2.98	1.29	1.23
12	BA	201	CYC	C2C-C1C	-2.98	1.49	1.52
12	B9	201	CYC	C2C-C1C	-2.98	1.49	1.52
12	H1	201	CYC	C1C-NC	-2.98	1.33	1.37
12	J3	201	CYC	C3D-C2D	2.98	1.46	1.38
12	J1	201	CYC	C3D-C2D	2.98	1.46	1.38
12	Z5	201	CYC	C1B-C2B	2.98	1.50	1.45
12	M8	301	CYC	C2C-C1C	-2.98	1.49	1.52
12	C4	201	CYC	OB-C4B	2.98	1.29	1.23
12	C8	201	CYC	OB-C4B	2.98	1.29	1.23
12	A1	201	CYC	OB-C4B	2.98	1.29	1.23
12	A3	201	CYC	OB-C4B	2.98	1.29	1.23
12	O1	201	CYC	OB-C4B	2.98	1.29	1.23
12	O3	201	CYC	OB-C4B	2.98	1.29	1.23
12	X5	201	CYC	C1B-C2B	2.98	1.50	1.45
12	M4	301	CYC	C2C-C1C	-2.98	1.49	1.52
12	H9	202	CYC	C2C-C1C	-2.98	1.49	1.52
12	J3	202	CYC	C1C-NC	-2.98	1.33	1.37
12	aA	901	CYC	C1C-NC	-2.98	1.33	1.37
12	OA	201	CYC	C3D-C2D	2.98	1.46	1.38
12	O9	201	CYC	C3D-C2D	2.98	1.46	1.38
12	C2	201	CYC	OB-C4B	2.98	1.29	1.23
12	h7	201	CYC	C2C-C1C	-2.97	1.49	1.52
12	A4	201	CYC	OB-C4B	2.97	1.29	1.23
12	A8	201	CYC	OB-C4B	2.97	1.29	1.23
12	M8	301	CYC	C1D-C2D	2.97	1.48	1.41
12	H9	202	CYC	C1C-NC	-2.97	1.33	1.37
12	PA	202	CYC	C1C-NC	-2.97	1.33	1.37
12	F3	202	CYC	C1C-NC	-2.97	1.33	1.37
12	F1	202	CYC	C1C-NC	-2.97	1.33	1.37
12	P9	202	CYC	C1C-NC	-2.97	1.33	1.37
12	b7	201	CYC	C2C-C1C	-2.97	1.49	1.52
12	V4	201	CYC	OB-C4B	2.97	1.29	1.23
12	V8	201	CYC	OB-C4B	2.97	1.29	1.23
12	UA	201	CYC	OB-C4B	2.97	1.29	1.23
12	U9	201	CYC	OB-C4B	2.97	1.29	1.23
12	H4	201	CYC	C1C-NC	-2.97	1.33	1.37
12	QA	201	CYC	C3D-C2D	2.97	1.46	1.38
12	TA	302	CYC	OB-C4B	2.97	1.29	1.23
12	T9	302	CYC	OB-C4B	2.97	1.29	1.23
12	H4	201	CYC	C2C-C1C	-2.96	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	H8	201	CYC	C2C-C1C	-2.96	1.49	1.52
12	LA	202	CYC	C1C-NC	-2.96	1.33	1.37
12	L9	202	CYC	C1C-NC	-2.96	1.33	1.37
12	H7	201	CYC	C2C-C1C	-2.96	1.49	1.52
12	X3	201	CYC	C2C-C1C	-2.96	1.49	1.52
12	X1	201	CYC	C2C-C1C	-2.96	1.49	1.52
12	QA	201	CYC	OB-C4B	2.96	1.29	1.23
12	N2	101	CYC	C2C-C1C	-2.96	1.49	1.52
12	J6	202	CYC	C1C-NC	-2.96	1.33	1.37
12	VA	201	CYC	C1C-NC	-2.96	1.33	1.37
12	V9	201	CYC	C1C-NC	-2.96	1.33	1.37
12	B5	201	CYC	C1B-C2B	2.95	1.50	1.45
12	P4	201	CYC	OB-C4B	2.95	1.29	1.23
12	P8	201	CYC	OB-C4B	2.95	1.29	1.23
12	H2	201	CYC	C1C-NC	-2.95	1.33	1.37
12	Y3	201	CYC	OB-C4B	2.95	1.29	1.23
12	Y1	201	CYC	OB-C4B	2.95	1.29	1.23
12	HA	202	CYC	C2C-C1C	-2.95	1.49	1.52
12	a9	901	CYC	C2C-C1C	-2.95	1.49	1.52
12	T5	201	CYC	C1B-C2B	2.95	1.50	1.45
12	F6	201	CYC	C1C-NC	-2.95	1.33	1.37
12	J9	201	CYC	C1C-NC	-2.95	1.33	1.37
12	J5	201	CYC	C2C-C1C	-2.95	1.49	1.52
12	H1	201	CYC	C2C-C1C	-2.95	1.49	1.52
12	Y5	201	CYC	C4D-C3D	2.94	1.49	1.42
12	XA	201	CYC	C1C-NC	-2.94	1.33	1.37
12	X9	201	CYC	C1C-NC	-2.94	1.33	1.37
12	U4	202	CYC	OB-C4B	2.94	1.29	1.23
12	U8	202	CYC	OB-C4B	2.94	1.29	1.23
12	M4	301	CYC	C1C-NC	-2.94	1.33	1.37
12	D5	201	CYC	C2C-C1C	-2.94	1.49	1.52
12	EA	201	CYC	C2C-C1C	-2.94	1.49	1.52
12	j5	1202	CYC	C2C-C1C	-2.94	1.49	1.52
12	E9	201	CYC	C2C-C1C	-2.94	1.49	1.52
12	L2	201	CYC	C2C-C1C	-2.94	1.49	1.52
12	B7	201	CYC	C2C-C1C	-2.94	1.49	1.52
12	W3	201	CYC	OB-C4B	2.94	1.29	1.23
12	W1	201	CYC	OB-C4B	2.94	1.29	1.23
12	K2	201	CYC	OB-C4B	2.94	1.29	1.23
12	K6	201	CYC	OB-C4B	2.94	1.29	1.23
12	Z3	201	CYC	C2C-C1C	-2.93	1.49	1.52
12	Z1	202	CYC	C2C-C1C	-2.93	1.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	V4	201	CYC	C3D-C2D	2.93	1.46	1.38
12	A2	201	CYC	OB-C4B	2.93	1.29	1.23
12	N2	101	CYC	C1C-NC	-2.93	1.33	1.37
12	XA	201	CYC	C2C-C1C	-2.93	1.49	1.52
12	D4	202	CYC	C1C-NC	-2.93	1.33	1.37
12	D8	202	CYC	C1C-NC	-2.93	1.33	1.37
12	ZA	201	CYC	OB-C4B	2.93	1.29	1.23
12	Z9	201	CYC	OB-C4B	2.93	1.29	1.23
12	JA	202	CYC	C2C-C1C	-2.93	1.49	1.52
12	J9	202	CYC	C2C-C1C	-2.93	1.49	1.52
12	A6	201	CYC	OB-C4B	2.93	1.29	1.23
12	f5	201	CYC	C2C-C1C	-2.93	1.49	1.52
12	o7	201	CYC	C4D-C3D	2.92	1.49	1.42
12	d7	201	CYC	C2C-C1C	-2.92	1.49	1.52
12	G2	201	CYC	OB-C4B	2.92	1.29	1.23
12	H8	201	CYC	C1C-NC	-2.92	1.33	1.37
12	Q9	201	CYC	OB-C4B	2.92	1.29	1.23
12	J2	202	CYC	C1C-NC	-2.92	1.33	1.37
12	H5	201	CYC	C1B-C2B	2.92	1.50	1.45
12	U4	201	CYC	C1C-NC	-2.92	1.33	1.37
12	D6	201	CYC	C1C-NC	-2.92	1.33	1.37
12	U8	201	CYC	C1C-NC	-2.92	1.33	1.37
12	V8	201	CYC	C3D-C2D	2.92	1.46	1.38
12	R5	201	CYC	C1B-C2B	2.92	1.50	1.45
12	AA	201	CYC	OB-C4B	2.91	1.29	1.23
12	A9	201	CYC	OB-C4B	2.91	1.29	1.23
12	F5	201	CYC	C2C-C1C	-2.91	1.49	1.52
12	N5	201	CYC	C1B-C2B	2.91	1.50	1.45
12	OA	201	CYC	OB-C4B	2.91	1.29	1.23
12	O9	201	CYC	OB-C4B	2.91	1.29	1.23
12	k5	1204	CYC	C2C-C1C	-2.91	1.49	1.52
12	b5	201	CYC	C2C-C1C	-2.91	1.49	1.52
12	Z	201	CYC	C2C-C1C	-2.91	1.49	1.52
12	b5	201	CYC	C1B-C2B	2.91	1.50	1.45
12	PA	201	CYC	C1C-NC	-2.90	1.33	1.37
12	S4	202	CYC	C1C-NC	-2.90	1.33	1.37
12	P9	201	CYC	C1C-NC	-2.90	1.33	1.37
12	H3	202	CYC	C2C-C1C	-2.90	1.49	1.52
12	K7	201	CYC	C4D-C3D	2.90	1.49	1.42
12	X7	201	CYC	C2C-C1C	-2.90	1.49	1.52
12	RA	201	CYC	C1C-NC	-2.90	1.33	1.37
12	R9	201	CYC	C1C-NC	-2.90	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	c5	201	CYC	C4D-C3D	2.90	1.49	1.42
12	L4	202	CYC	C2C-C1C	-2.90	1.49	1.52
12	k5	1203	CYC	C1B-C2B	2.90	1.50	1.45
12	N7	201	CYC	C1B-C2B	2.90	1.50	1.45
12	T7	201	CYC	C1B-C2B	2.90	1.50	1.45
12	T3	301	CYC	C1C-NC	-2.90	1.33	1.37
12	T1	301	CYC	C1C-NC	-2.90	1.33	1.37
12	R3	201	CYC	C1C-NC	-2.89	1.33	1.37
12	V7	201	CYC	C2C-C1C	-2.89	1.49	1.52
12	L7	201	CYC	C1B-C2B	2.89	1.50	1.45
12	f5	201	CYC	C1B-C2B	2.89	1.50	1.45
12	G6	201	CYC	OB-C4B	2.89	1.29	1.23
12	L4	202	CYC	C1C-NC	-2.89	1.33	1.37
12	N7	201	CYC	C2C-C1C	-2.89	1.49	1.52
12	D2	201	CYC	C1C-NC	-2.89	1.33	1.37
12	u7	201	CYC	C4D-C3D	2.89	1.49	1.42
12	V3	201	CYC	C1C-NC	-2.89	1.33	1.37
12	V1	201	CYC	C1C-NC	-2.89	1.33	1.37
12	R1	201	CYC	C2C-C1C	-2.88	1.49	1.52
12	R3	201	CYC	C2C-C1C	-2.88	1.49	1.52
12	F4	202	CYC	C2C-C1C	-2.88	1.49	1.52
12	F8	202	CYC	C2C-C1C	-2.88	1.49	1.52
12	H6	201	CYC	C2C-C1C	-2.88	1.49	1.52
12	C3	201	CYC	OB-C4B	2.88	1.29	1.23
12	C1	201	CYC	OB-C4B	2.88	1.29	1.23
12	L6	202	CYC	OB-C4B	2.88	1.29	1.23
12	D9	201	CYC	C1C-NC	-2.88	1.33	1.37
12	L5	201	CYC	C1B-C2B	2.88	1.50	1.45
12	R1	201	CYC	C1C-NC	-2.88	1.33	1.37
12	a9	901	CYC	C1C-NC	-2.88	1.33	1.37
12	L2	201	CYC	C1C-NC	-2.88	1.33	1.37
12	L6	201	CYC	C1C-NC	-2.88	1.33	1.37
12	F4	202	CYC	C1C-NC	-2.87	1.33	1.37
12	F8	202	CYC	C1C-NC	-2.87	1.33	1.37
12	k5	1201	CYC	C1B-C2B	2.87	1.50	1.45
12	F7	201	CYC	C1B-C2B	2.87	1.50	1.45
12	v7	201	CYC	C1B-C2B	2.87	1.50	1.45
12	j7	201	CYC	C2C-C1C	-2.87	1.49	1.52
12	L2	202	CYC	OB-C4B	2.87	1.29	1.23
12	A	201	CYC	C2C-C1C	-2.87	1.49	1.52
12	N6	101	CYC	C1C-NC	-2.87	1.34	1.37
12	W7	201	CYC	C4D-C3D	2.87	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	S5	201	CYC	C4D-C3D	2.86	1.49	1.42
12	Q1	201	CYC	OB-C4B	2.86	1.29	1.23
12	Q3	201	CYC	OB-C4B	2.86	1.29	1.23
12	H7	201	CYC	C1B-C2B	2.86	1.50	1.45
12	G2	201	CYC	C2C-C1C	-2.86	1.49	1.52
12	L5	201	CYC	C2C-C1C	-2.86	1.49	1.52
12	CA	201	CYC	OB-C4B	2.86	1.29	1.23
12	C9	201	CYC	OB-C4B	2.86	1.29	1.23
12	Z3	201	CYC	C1C-NC	-2.86	1.34	1.37
12	Z1	202	CYC	C1C-NC	-2.86	1.34	1.37
12	k5	1203	CYC	C2C-C1C	-2.86	1.49	1.52
12	r7	201	CYC	C1B-C2B	2.85	1.50	1.45
12	E7	201	CYC	C4D-C3D	2.85	1.49	1.42
12	B1	202	CYC	C1C-NC	-2.85	1.34	1.37
12	L6	201	CYC	C2C-C1C	-2.85	1.49	1.52
12	F2	202	CYC	C1C-NC	-2.85	1.34	1.37
12	X9	201	CYC	C2C-C1C	-2.85	1.49	1.52
12	X3	201	CYC	C1C-NC	-2.85	1.34	1.37
12	X1	201	CYC	C1C-NC	-2.85	1.34	1.37
12	R7	201	CYC	C1B-C2B	2.85	1.50	1.45
12	m7	201	CYC	C4D-C3D	2.85	1.49	1.42
12	j5	1202	CYC	C1B-C2B	2.85	1.50	1.45
12	V5	201	CYC	C1B-C2B	2.84	1.50	1.45
12	k5	1204	CYC	C1B-C2B	2.84	1.50	1.45
12	DA	201	CYC	C1C-NC	-2.84	1.34	1.37
12	Q5	201	CYC	C4D-C3D	2.84	1.49	1.42
12	V3	201	CYC	C2C-C1C	-2.84	1.49	1.52
12	V1	201	CYC	C2C-C1C	-2.84	1.49	1.52
12	VA	201	CYC	C2C-C1C	-2.84	1.49	1.52
12	V9	201	CYC	C2C-C1C	-2.84	1.49	1.52
12	B3	202	CYC	C1C-NC	-2.83	1.34	1.37
12	k5	1202	CYC	C1B-C2B	2.83	1.50	1.45
12	M5	201	CYC	C4D-C3D	2.83	1.49	1.42
12	D7	201	CYC	C1B-C2B	2.83	1.50	1.45
12	r7	201	CYC	C2C-C1C	-2.83	1.49	1.52
12	P5	201	CYC	C1B-C2B	2.83	1.50	1.45
12	C6	201	CYC	C2C-C1C	-2.83	1.49	1.52
12	G5	201	CYC	C4D-C3D	2.83	1.49	1.42
12	c7	201	CYC	C4D-C3D	2.83	1.49	1.42
12	j5	1201	CYC	C1B-C2B	2.83	1.50	1.45
12	p7	201	CYC	C2C-C1C	-2.83	1.49	1.52
12	D3	202	CYC	C1C-NC	-2.83	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	T5	201	CYC	C2C-C1C	-2.83	1.49	1.52
12	d7	201	CYC	C1B-C2B	2.83	1.50	1.45
12	p7	201	CYC	C1B-C2B	2.82	1.50	1.45
12	s7	201	CYC	C4D-C3D	2.82	1.49	1.42
12	P7	201	CYC	C1B-C2B	2.82	1.50	1.45
12	G6	201	CYC	C2C-C1C	-2.82	1.49	1.52
12	O7	201	CYC	C4D-C3D	2.82	1.49	1.42
12	M8	302	CYC	C1C-NC	-2.82	1.34	1.37
12	i7	201	CYC	C4D-C3D	2.82	1.49	1.42
12	F3	201	CYC	C1C-NC	-2.82	1.34	1.37
12	F1	201	CYC	C1C-NC	-2.82	1.34	1.37
12	B7	201	CYC	C1B-C2B	2.82	1.50	1.45
12	J7	201	CYC	C1B-C2B	2.82	1.50	1.45
12	W4	201	CYC	C1C-NC	-2.81	1.34	1.37
12	W8	201	CYC	C1C-NC	-2.81	1.34	1.37
12	A5	201	CYC	C4D-C3D	2.81	1.49	1.42
12	U5	201	CYC	C4D-C3D	2.81	1.49	1.42
12	f7	201	CYC	C1B-C2B	2.81	1.50	1.45
12	T7	201	CYC	C2C-C1C	-2.81	1.49	1.52
12	B8	202	CYC	C1C-NC	-2.81	1.34	1.37
12	F5	201	CYC	C1B-C2B	2.81	1.50	1.45
12	O5	201	CYC	C4D-C3D	2.81	1.49	1.42
12	W5	201	CYC	C4D-C3D	2.81	1.49	1.42
12	q7	201	CYC	C4D-C3D	2.80	1.49	1.42
12	E3	201	CYC	C2C-C1C	-2.80	1.49	1.52
12	E1	201	CYC	C2C-C1C	-2.80	1.49	1.52
12	K5	201	CYC	C4D-C3D	2.80	1.49	1.42
12	N5	201	CYC	C2C-C1C	-2.80	1.49	1.52
12	X7	201	CYC	C1B-C2B	2.80	1.50	1.45
12	L3	202	CYC	C1C-NC	-2.80	1.34	1.37
12	aA	902	CYC	C1C-NC	-2.80	1.34	1.37
12	WA	201	CYC	C2C-C1C	-2.79	1.49	1.52
12	W9	201	CYC	C2C-C1C	-2.79	1.49	1.52
12	U7	201	CYC	C1C-NC	-2.79	1.34	1.37
12	P1	201	CYC	C1C-NC	-2.79	1.34	1.37
12	P3	201	CYC	C1C-NC	-2.79	1.34	1.37
12	O4	201	CYC	C1C-NC	-2.79	1.34	1.37
12	O8	201	CYC	C1C-NC	-2.79	1.34	1.37
12	E5	201	CYC	C4D-C3D	2.79	1.49	1.42
12	Q7	201	CYC	C4D-C3D	2.79	1.49	1.42
12	k7	201	CYC	C1C-NC	-2.79	1.34	1.37
12	ZA	202	CYC	C4C-NC	-2.79	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	Z9	202	CYC	C4C-NC	-2.79	1.32	1.37
12	b7	201	CYC	C1B-C2B	2.79	1.50	1.45
12	F6	201	CYC	C4C-NC	-2.79	1.32	1.37
12	a7	201	CYC	C1C-NC	-2.79	1.34	1.37
12	W7	201	CYC	C1C-NC	-2.79	1.34	1.37
12	I2	201	CYC	C2C-C1C	-2.79	1.49	1.52
12	FA	301	CYC	C4C-NC	-2.79	1.32	1.37
12	F9	301	CYC	C4C-NC	-2.79	1.32	1.37
12	U5	201	CYC	C1C-NC	-2.79	1.34	1.37
12	D5	201	CYC	C1B-C2B	2.79	1.50	1.45
12	R5	201	CYC	C2C-C1C	-2.78	1.49	1.52
12	D1	202	CYC	C1C-NC	-2.78	1.34	1.37
12	A7	201	CYC	C4D-C3D	2.78	1.49	1.42
12	M7	201	CYC	C4D-C3D	2.78	1.49	1.42
12	S7	201	CYC	C4D-C3D	2.78	1.49	1.42
12	U7	201	CYC	C4D-C3D	2.78	1.49	1.42
12	a7	201	CYC	C4D-C3D	2.78	1.49	1.42
12	F3	201	CYC	C2C-C1C	-2.78	1.49	1.52
12	F1	201	CYC	C2C-C1C	-2.78	1.49	1.52
12	k7	201	CYC	C4D-C3D	2.78	1.48	1.42
12	B4	202	CYC	C1C-NC	-2.78	1.34	1.37
12	j7	201	CYC	C1B-C2B	2.78	1.50	1.45
12	F2	201	CYC	C2C-C1C	-2.78	1.49	1.52
12	g7	201	CYC	C4D-C3D	2.78	1.48	1.42
12	R7	201	CYC	C2C-C1C	-2.78	1.49	1.52
12	g7	201	CYC	C1C-NC	-2.77	1.34	1.37
12	s7	201	CYC	C1C-NC	-2.77	1.34	1.37
12	X5	201	CYC	C2C-C1C	-2.77	1.49	1.52
12	c7	201	CYC	C1C-NC	-2.77	1.34	1.37
12	h7	201	CYC	C1B-C2B	2.77	1.50	1.45
12	I7	201	CYC	C4D-C3D	2.77	1.48	1.42
12	P1	201	CYC	C4C-NC	-2.77	1.32	1.37
12	P3	201	CYC	C4C-NC	-2.77	1.32	1.37
12	k5	1202	CYC	C2C-C1C	-2.77	1.49	1.52
12	RA	201	CYC	C4C-NC	-2.77	1.32	1.37
12	R9	201	CYC	C4C-NC	-2.77	1.32	1.37
12	I6	201	CYC	C2C-C1C	-2.76	1.49	1.52
12	C5	201	CYC	C4D-C3D	2.76	1.48	1.42
12	C7	201	CYC	C4D-C3D	2.76	1.48	1.42
12	F6	202	CYC	C1C-NC	-2.76	1.34	1.37
12	F2	201	CYC	C4C-NC	-2.76	1.32	1.37
12	Q7	201	CYC	C1C-NC	-2.76	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	j5	1201	CYC	C4D-ND	-2.75	1.33	1.37
12	L3	202	CYC	C4C-NC	-2.75	1.32	1.37
12	aA	902	CYC	C4C-NC	-2.75	1.32	1.37
12	e5	201	CYC	C4D-C3D	2.75	1.48	1.42
12	J5	201	CYC	C1B-C2B	2.75	1.50	1.45
12	C2	201	CYC	C2C-C1C	-2.75	1.49	1.52
12	FA	301	CYC	C1C-NC	-2.75	1.34	1.37
12	F9	301	CYC	C1C-NC	-2.75	1.34	1.37
12	D8	202	CYC	C4C-NC	-2.75	1.32	1.37
12	q7	201	CYC	C1C-NC	-2.75	1.34	1.37
12	K5	201	CYC	C1C-NC	-2.75	1.34	1.37
12	I5	201	CYC	C4D-C3D	2.74	1.48	1.42
12	j5	1201	CYC	C4D-C3D	2.74	1.48	1.42
12	f7	201	CYC	C2C-C1C	-2.74	1.49	1.52
12	L7	201	CYC	C2C-C1C	-2.74	1.49	1.52
12	o7	201	CYC	C1C-NC	-2.74	1.34	1.37
12	G7	201	CYC	C4D-C3D	2.74	1.48	1.42
12	e7	201	CYC	C4D-C3D	2.74	1.48	1.42
12	E5	201	CYC	C1C-NC	-2.74	1.34	1.37
12	a5	201	CYC	C4D-C3D	2.74	1.48	1.42
12	v7	201	CYC	C2C-C1C	-2.73	1.49	1.52
12	Q9	201	CYC	C2C-C1C	-2.73	1.49	1.52
12	Z4	301	CYC	C4C-NC	-2.73	1.32	1.37
12	D4	202	CYC	C4C-NC	-2.73	1.32	1.37
12	Y7	201	CYC	C4D-C3D	2.73	1.48	1.42
12	u7	201	CYC	C1C-NC	-2.73	1.34	1.37
12	A4	201	CYC	C2C-C1C	-2.73	1.49	1.52
12	A8	201	CYC	C2C-C1C	-2.73	1.49	1.52
12	SA	201	CYC	C2C-C1C	-2.72	1.49	1.52
12	V5	201	CYC	C2C-C1C	-2.72	1.49	1.52
12	S9	201	CYC	C2C-C1C	-2.72	1.49	1.52
12	Z	201	CYC	C1B-C2B	2.72	1.49	1.45
12	V7	201	CYC	C1B-C2B	2.72	1.49	1.45
12	m7	201	CYC	C1C-NC	-2.72	1.34	1.37
12	G3	201	CYC	C2C-C1C	-2.72	1.49	1.52
12	G1	201	CYC	C2C-C1C	-2.72	1.49	1.52
12	PA	201	CYC	C4C-NC	-2.72	1.32	1.37
12	P9	201	CYC	C4C-NC	-2.72	1.32	1.37
12	Q5	201	CYC	C1C-NC	-2.71	1.34	1.37
12	QA	201	CYC	C2C-C1C	-2.71	1.49	1.52
12	DA	201	CYC	C4C-NC	-2.71	1.32	1.37
12	M8	301	CYC	C4C-NC	-2.71	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	D9	201	CYC	C4C-NC	-2.71	1.32	1.37
12	GA	201	CYC	C2C-C1C	-2.70	1.49	1.52
12	G9	201	CYC	C2C-C1C	-2.70	1.49	1.52
12	A	201	CYC	C1B-C2B	2.70	1.49	1.45
12	k5	1201	CYC	C4D-ND	-2.70	1.33	1.37
12	Z3	201	CYC	C4C-NC	-2.70	1.32	1.37
12	Z1	202	CYC	C4C-NC	-2.70	1.32	1.37
12	S7	201	CYC	C1C-NC	-2.70	1.34	1.37
12	i7	201	CYC	C1C-NC	-2.70	1.34	1.37
12	W5	201	CYC	C1C-NC	-2.70	1.34	1.37
12	L4	202	CYC	C4C-NC	-2.69	1.32	1.37
12	F6	201	CYC	C2C-C1C	-2.69	1.49	1.52
12	F3	201	CYC	C4C-NC	-2.69	1.32	1.37
12	F1	201	CYC	C4C-NC	-2.69	1.32	1.37
12	K7	201	CYC	C1C-NC	-2.69	1.34	1.37
12	G4	201	CYC	C2C-C1C	-2.69	1.49	1.52
12	G8	201	CYC	C2C-C1C	-2.69	1.49	1.52
12	O7	201	CYC	C1C-NC	-2.69	1.34	1.37
12	a9	901	CYC	C4C-NC	-2.69	1.32	1.37
12	TA	301	CYC	C1C-NC	-2.69	1.34	1.37
12	O5	201	CYC	C1C-NC	-2.69	1.34	1.37
12	T9	301	CYC	C1C-NC	-2.69	1.34	1.37
12	Y5	201	CYC	OB-C4B	2.69	1.28	1.23
12	UA	201	CYC	C2C-C1C	-2.69	1.49	1.52
12	U9	201	CYC	C2C-C1C	-2.69	1.49	1.52
12	N4	201	CYC	C2C-C1C	-2.68	1.49	1.52
12	N8	201	CYC	C2C-C1C	-2.68	1.49	1.52
12	F7	201	CYC	C2C-C1C	-2.68	1.49	1.52
12	e5	201	CYC	OB-C4B	2.68	1.28	1.23
12	M8	302	CYC	C4C-NC	-2.68	1.32	1.37
12	Z8	301	CYC	C4C-NC	-2.68	1.32	1.37
12	g7	201	CYC	OB-C4B	2.68	1.28	1.23
12	P4	201	CYC	C2C-C1C	-2.68	1.49	1.52
12	P8	201	CYC	C2C-C1C	-2.68	1.49	1.52
12	S5	201	CYC	C1B-C2B	2.68	1.49	1.45
12	P5	201	CYC	C2C-C1C	-2.67	1.49	1.52
12	a5	201	CYC	OB-C4B	2.67	1.28	1.23
12	TA	301	CYC	C2C-C1C	-2.67	1.49	1.52
12	X4	201	CYC	C2C-C1C	-2.67	1.49	1.52
12	X8	201	CYC	C2C-C1C	-2.67	1.49	1.52
12	T9	301	CYC	C2C-C1C	-2.67	1.49	1.52
12	TA	301	CYC	C4C-NC	-2.67	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	T9	301	CYC	C4C-NC	-2.67	1.32	1.37
12	S4	202	CYC	C4C-NC	-2.67	1.32	1.37
12	FA	301	CYC	C2C-C1C	-2.66	1.49	1.52
12	F9	301	CYC	C2C-C1C	-2.66	1.49	1.52
12	Y7	201	CYC	C1B-C2B	2.66	1.49	1.45
12	L2	201	CYC	C4C-NC	-2.66	1.32	1.37
12	C7	201	CYC	C1C-NC	-2.66	1.34	1.37
12	k5	1201	CYC	C4D-C3D	2.66	1.48	1.42
12	O4	201	CYC	C4C-NC	-2.66	1.32	1.37
12	O8	201	CYC	C4C-NC	-2.66	1.32	1.37
12	M5	201	CYC	C1B-C2B	2.65	1.49	1.45
12	U7	201	CYC	OB-C4B	2.65	1.28	1.23
12	J5	201	CYC	C4C-NC	-2.65	1.32	1.37
12	R1	201	CYC	C4C-NC	-2.65	1.32	1.37
12	R3	201	CYC	C4C-NC	-2.65	1.32	1.37
12	M4	301	CYC	C4C-NC	-2.65	1.32	1.37
12	a7	201	CYC	OB-C4B	2.65	1.28	1.23
12	c5	201	CYC	OB-C4B	2.65	1.28	1.23
12	I3	201	CYC	C2C-C1C	-2.65	1.49	1.52
12	I1	201	CYC	C2C-C1C	-2.65	1.49	1.52
12	V3	201	CYC	C4C-NC	-2.65	1.32	1.37
12	V1	201	CYC	C4C-NC	-2.65	1.32	1.37
12	V4	201	CYC	C2C-C1C	-2.64	1.49	1.52
12	V8	201	CYC	C2C-C1C	-2.64	1.49	1.52
12	k5	1204	CYC	C4C-NC	-2.64	1.32	1.37
12	OA	201	CYC	C2C-C1C	-2.64	1.49	1.52
12	D5	201	CYC	C4C-NC	-2.64	1.32	1.37
12	C4	201	CYC	C2C-C1C	-2.64	1.49	1.52
12	W3	201	CYC	C2C-C1C	-2.64	1.49	1.52
12	C8	201	CYC	C2C-C1C	-2.64	1.49	1.52
12	X3	201	CYC	C4C-NC	-2.64	1.32	1.37
12	W4	201	CYC	C4C-NC	-2.64	1.32	1.37
12	W8	201	CYC	C4C-NC	-2.64	1.32	1.37
12	X1	201	CYC	C4C-NC	-2.64	1.32	1.37
12	D6	201	CYC	C4C-NC	-2.64	1.32	1.37
12	F4	202	CYC	C4C-NC	-2.64	1.32	1.37
12	F8	202	CYC	C4C-NC	-2.64	1.32	1.37
12	K7	201	CYC	C1B-C2B	2.64	1.49	1.45
12	Y5	201	CYC	C1C-NC	-2.64	1.34	1.37
12	M7	201	CYC	C1B-C2B	2.63	1.49	1.45
12	m7	201	CYC	OB-C4B	2.63	1.28	1.23
12	B4	202	CYC	C4C-NC	-2.63	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	C3	201	CYC	C2C-C1C	-2.63	1.49	1.52
12	C1	201	CYC	C2C-C1C	-2.63	1.49	1.52
12	BA	201	CYC	C4C-NC	-2.63	1.32	1.37
12	B9	201	CYC	C4C-NC	-2.63	1.32	1.37
12	B3	202	CYC	C4C-NC	-2.63	1.32	1.37
12	LA	202	CYC	C4C-NC	-2.63	1.32	1.37
12	L9	202	CYC	C4C-NC	-2.63	1.32	1.37
12	G5	201	CYC	C1C-NC	-2.63	1.34	1.37
12	A5	201	CYC	C1C-NC	-2.63	1.34	1.37
12	A2	201	CYC	C1B-NB	-2.63	1.33	1.37
12	T3	301	CYC	C4C-NC	-2.63	1.32	1.37
12	T1	301	CYC	C4C-NC	-2.63	1.32	1.37
12	k7	201	CYC	C1B-C2B	2.63	1.49	1.45
12	U5	201	CYC	OB-C4B	2.63	1.28	1.23
12	B8	202	CYC	C4C-NC	-2.63	1.32	1.37
12	D2	201	CYC	C4C-NC	-2.62	1.32	1.37
12	S1	201	CYC	C2C-C1C	-2.62	1.49	1.52
12	S3	201	CYC	C2C-C1C	-2.62	1.49	1.52
12	a5	201	CYC	C1C-NC	-2.62	1.34	1.37
12	L6	201	CYC	C4C-NC	-2.62	1.32	1.37
12	E7	201	CYC	C1C-NC	-2.62	1.34	1.37
12	VA	201	CYC	C4C-NC	-2.62	1.32	1.37
12	V9	201	CYC	C4C-NC	-2.62	1.32	1.37
12	AA	201	CYC	C2C-C1C	-2.62	1.49	1.52
12	A9	201	CYC	C2C-C1C	-2.62	1.49	1.52
12	D3	202	CYC	C4C-NC	-2.62	1.32	1.37
12	D1	202	CYC	C4C-NC	-2.62	1.32	1.37
12	O7	201	CYC	OB-C4B	2.62	1.28	1.23
12	C5	201	CYC	C1C-NC	-2.62	1.34	1.37
12	c5	201	CYC	C1C-NC	-2.62	1.34	1.37
12	A5	201	CYC	C1B-C2B	2.62	1.49	1.45
12	e7	201	CYC	C1B-C2B	2.62	1.49	1.45
12	G5	201	CYC	OB-C4B	2.62	1.28	1.23
12	O9	201	CYC	C2C-C1C	-2.62	1.49	1.52
12	e5	201	CYC	C1C-NC	-2.61	1.34	1.37
12	E6	201	CYC	C2C-C1C	-2.61	1.49	1.52
12	E2	201	CYC	C2C-C1C	-2.61	1.49	1.52
12	XA	201	CYC	C4C-NC	-2.61	1.32	1.37
12	X9	201	CYC	C4C-NC	-2.61	1.32	1.37
12	S5	201	CYC	C1C-NC	-2.61	1.34	1.37
12	N6	101	CYC	C4C-NC	-2.61	1.32	1.37
12	J3	202	CYC	C4C-NC	-2.61	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	aA	901	CYC	C4C-NC	-2.61	1.32	1.37
12	L5	201	CYC	OB-C4B	2.60	1.28	1.23
12	J6	202	CYC	C4C-NC	-2.60	1.32	1.37
12	E7	201	CYC	C1B-C2B	2.60	1.49	1.45
12	A2	201	CYC	C2C-C1C	-2.60	1.49	1.52
12	C7	201	CYC	OB-C4B	2.60	1.28	1.23
12	O5	201	CYC	OB-C4B	2.59	1.28	1.23
12	O1	201	CYC	C2C-C1C	-2.59	1.49	1.52
12	O3	201	CYC	C2C-C1C	-2.59	1.49	1.52
12	U3	201	CYC	C2C-C1C	-2.59	1.49	1.52
12	I4	201	CYC	C2C-C1C	-2.59	1.49	1.52
12	I8	201	CYC	C2C-C1C	-2.59	1.49	1.52
12	U1	201	CYC	C2C-C1C	-2.59	1.49	1.52
12	K7	201	CYC	OB-C4B	2.59	1.28	1.23
12	Y7	201	CYC	C1C-NC	-2.59	1.34	1.37
12	e7	201	CYC	C1C-NC	-2.59	1.34	1.37
12	J4	201	CYC	C4C-NC	-2.59	1.32	1.37
12	J8	201	CYC	C4C-NC	-2.59	1.32	1.37
12	Y3	201	CYC	C2C-C1C	-2.59	1.49	1.52
12	Y1	201	CYC	C2C-C1C	-2.59	1.49	1.52
12	Q7	201	CYC	C1B-C2B	2.59	1.49	1.45
12	C5	201	CYC	OB-C4B	2.59	1.28	1.23
12	i7	201	CYC	OB-C4B	2.59	1.28	1.23
12	M5	201	CYC	C1C-NC	-2.59	1.34	1.37
12	I7	201	CYC	C1C-NC	-2.58	1.34	1.37
12	Z5	201	CYC	OB-C4B	2.58	1.28	1.23
12	j7	201	CYC	OB-C4B	2.58	1.28	1.23
12	A6	201	CYC	C1B-NB	-2.58	1.33	1.37
12	I7	201	CYC	OB-C4B	2.58	1.28	1.23
12	B1	202	CYC	C4C-NC	-2.58	1.32	1.37
12	H9	202	CYC	C4C-NC	-2.58	1.32	1.37
12	J2	202	CYC	C4C-NC	-2.58	1.32	1.37
12	T5	201	CYC	C4C-NC	-2.58	1.32	1.37
12	H1	201	CYC	C4C-NC	-2.58	1.32	1.37
12	S1	201	CYC	C1B-C2B	2.58	1.49	1.45
12	S3	201	CYC	C1B-C2B	2.58	1.49	1.45
12	S7	201	CYC	C1B-C2B	2.58	1.49	1.45
12	W7	201	CYC	OB-C4B	2.57	1.28	1.23
12	G5	201	CYC	C1B-C2B	2.57	1.49	1.45
12	K2	201	CYC	C2C-C1C	-2.57	1.49	1.52
12	K6	201	CYC	C2C-C1C	-2.57	1.49	1.52
12	I5	201	CYC	C1C-NC	-2.57	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	V7	201	CYC	C4C-NC	-2.57	1.32	1.37
12	Q7	201	CYC	OB-C4B	2.57	1.28	1.23
12	G7	201	CYC	C1B-C2B	2.57	1.49	1.45
12	j5	1202	CYC	C4C-NC	-2.57	1.32	1.37
12	M7	201	CYC	C1C-NC	-2.57	1.34	1.37
12	E5	201	CYC	OB-C4B	2.57	1.28	1.23
12	S1	201	CYC	C4D-C3D	2.57	1.48	1.42
12	S3	201	CYC	C4D-C3D	2.57	1.48	1.42
12	d7	201	CYC	OB-C4B	2.57	1.28	1.23
12	E7	201	CYC	OB-C4B	2.57	1.28	1.23
12	s7	201	CYC	OB-C4B	2.57	1.28	1.23
12	KA	201	CYC	C2C-C1C	-2.56	1.49	1.52
12	K9	201	CYC	C2C-C1C	-2.56	1.49	1.52
12	W1	201	CYC	C2C-C1C	-2.56	1.49	1.52
12	N5	201	CYC	C4C-NC	-2.56	1.32	1.37
12	O9	201	CYC	C1B-NB	-2.56	1.33	1.37
12	J5	201	CYC	OB-C4B	2.56	1.28	1.23
12	e5	201	CYC	C1B-C2B	2.56	1.49	1.45
12	HA	202	CYC	C4C-NC	-2.56	1.32	1.37
12	E4	201	CYC	C2C-C1C	-2.55	1.49	1.52
12	E5	201	CYC	C1B-C2B	2.55	1.49	1.45
12	A5	201	CYC	OB-C4B	2.55	1.28	1.23
12	EA	201	CYC	C1B-C2B	2.55	1.49	1.45
12	E9	201	CYC	C1B-C2B	2.55	1.49	1.45
12	I5	201	CYC	OB-C4B	2.55	1.28	1.23
12	c7	201	CYC	C1B-C2B	2.55	1.49	1.45
12	A4	201	CYC	C1B-NB	-2.55	1.33	1.37
12	A8	201	CYC	C1B-NB	-2.55	1.33	1.37
12	C6	201	CYC	C1B-C2B	2.55	1.49	1.45
12	b5	201	CYC	C4C-NC	-2.55	1.32	1.37
12	A	201	CYC	C4C-NC	-2.55	1.32	1.37
12	P4	201	CYC	C4D-C3D	2.54	1.48	1.42
12	P8	201	CYC	C4D-C3D	2.54	1.48	1.42
12	B5	201	CYC	OB-C4B	2.54	1.28	1.23
12	X5	201	CYC	OB-C4B	2.54	1.28	1.23
12	A7	201	CYC	C1B-C2B	2.54	1.49	1.45
12	N2	101	CYC	C4C-NC	-2.54	1.32	1.37
12	F5	201	CYC	OB-C4B	2.54	1.28	1.23
12	q7	201	CYC	C1B-C2B	2.54	1.49	1.45
12	YA	201	CYC	C2C-C1C	-2.54	1.49	1.52
12	Y9	201	CYC	C2C-C1C	-2.54	1.49	1.52
12	S4	202	CYC	C1B-C2B	2.54	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	a5	201	CYC	C1B-C2B	2.54	1.49	1.45
12	B4	202	CYC	C1B-C2B	2.53	1.49	1.45
12	Y7	201	CYC	OB-C4B	2.53	1.28	1.23
12	I4	201	CYC	C1B-C2B	2.53	1.49	1.45
12	I8	201	CYC	C1B-C2B	2.53	1.49	1.45
12	f5	201	CYC	C4C-NC	-2.53	1.32	1.37
12	P7	201	CYC	C1A-C2A	2.53	1.49	1.45
12	J7	201	CYC	OB-C4B	2.53	1.28	1.23
12	OA	201	CYC	C1B-NB	-2.53	1.33	1.37
12	T4	201	CYC	C2C-C1C	-2.53	1.49	1.52
12	T8	201	CYC	C2C-C1C	-2.53	1.49	1.52
12	OA	201	CYC	C1C-NC	-2.53	1.34	1.37
12	O9	201	CYC	C1C-NC	-2.53	1.34	1.37
12	Z	201	CYC	C4C-NC	-2.53	1.32	1.37
12	G7	201	CYC	C1C-NC	-2.53	1.34	1.37
12	k5	1203	CYC	OB-C4B	2.53	1.28	1.23
12	H3	202	CYC	C4C-NC	-2.53	1.32	1.37
12	U4	201	CYC	C4C-NC	-2.53	1.32	1.37
12	U8	201	CYC	C4C-NC	-2.53	1.32	1.37
12	D5	201	CYC	OB-C4B	2.53	1.28	1.23
12	A6	201	CYC	C2C-C1C	-2.53	1.49	1.52
12	K5	201	CYC	OB-C4B	2.53	1.28	1.23
12	E8	201	CYC	C2C-C1C	-2.53	1.49	1.52
12	T7	201	CYC	OB-C4B	2.53	1.28	1.23
12	A4	201	CYC	C1B-C2B	2.52	1.49	1.45
12	A8	201	CYC	C1B-C2B	2.52	1.49	1.45
12	c7	201	CYC	OB-C4B	2.52	1.28	1.23
12	N7	201	CYC	OB-C4B	2.52	1.28	1.23
12	d5	201	CYC	OB-C4B	2.52	1.28	1.23
12	g7	201	CYC	C1B-C2B	2.52	1.49	1.45
12	R7	201	CYC	OB-C4B	2.52	1.28	1.23
12	K3	201	CYC	C1B-C2B	2.52	1.49	1.45
12	K1	201	CYC	C1B-C2B	2.52	1.49	1.45
12	G7	201	CYC	OB-C4B	2.52	1.28	1.23
12	D7	201	CYC	OB-C4B	2.52	1.28	1.23
12	j5	1201	CYC	OB-C4B	2.52	1.28	1.23
12	b7	201	CYC	C4C-NC	-2.52	1.32	1.37
12	D3	202	CYC	C1B-C2B	2.52	1.49	1.45
12	D1	202	CYC	C1B-C2B	2.52	1.49	1.45
12	h7	201	CYC	C4C-NC	-2.52	1.32	1.37
12	r7	201	CYC	C4C-NC	-2.51	1.32	1.37
12	i7	201	CYC	C1B-C2B	2.51	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	q7	201	CYC	OB-C4B	2.51	1.28	1.23
12	a7	201	CYC	C1B-C2B	2.51	1.49	1.45
12	E3	201	CYC	C4D-C3D	2.51	1.48	1.42
12	E1	201	CYC	C4D-C3D	2.51	1.48	1.42
12	p7	201	CYC	OB-C4B	2.51	1.28	1.23
12	R4	201	CYC	C2C-C1C	-2.51	1.49	1.52
12	R8	201	CYC	C2C-C1C	-2.51	1.49	1.52
12	r7	201	CYC	OB-C4B	2.51	1.28	1.23
12	U3	201	CYC	C1B-NB	-2.51	1.33	1.37
12	U1	201	CYC	C1B-NB	-2.51	1.33	1.37
12	C2	201	CYC	C1B-C2B	2.51	1.49	1.45
12	m7	201	CYC	C1B-C2B	2.51	1.49	1.45
12	CA	201	CYC	C2C-C1C	-2.51	1.49	1.52
12	P7	201	CYC	OB-C4B	2.51	1.28	1.23
12	D7	201	CYC	C4C-NC	-2.51	1.32	1.37
12	Y3	201	CYC	C1B-C2B	2.51	1.49	1.45
12	s7	201	CYC	C1B-C2B	2.51	1.49	1.45
12	Y1	201	CYC	C1B-C2B	2.51	1.49	1.45
12	H6	201	CYC	C4C-NC	-2.51	1.32	1.37
12	A7	201	CYC	C1C-NC	-2.51	1.34	1.37
12	A6	201	CYC	C1B-C2B	2.50	1.49	1.45
12	JA	202	CYC	C4C-NC	-2.50	1.32	1.37
12	J9	202	CYC	C4C-NC	-2.50	1.32	1.37
12	H2	201	CYC	C4C-NC	-2.50	1.32	1.37
12	A7	201	CYC	OB-C4B	2.50	1.28	1.23
12	D2	201	CYC	C1B-C2B	2.50	1.49	1.45
12	k5	1201	CYC	OB-C4B	2.50	1.28	1.23
12	v7	201	CYC	OB-C4B	2.50	1.28	1.23
12	V5	201	CYC	OB-C4B	2.50	1.28	1.23
12	UA	201	CYC	C4D-C3D	2.50	1.48	1.42
12	U9	201	CYC	C4D-C3D	2.50	1.48	1.42
12	F2	201	CYC	C1B-C2B	2.50	1.49	1.45
12	U3	201	CYC	C4D-C3D	2.50	1.48	1.42
12	U1	201	CYC	C4D-C3D	2.50	1.48	1.42
12	e7	201	CYC	OB-C4B	2.50	1.28	1.23
12	DA	201	CYC	C1B-C2B	2.50	1.49	1.45
12	C9	201	CYC	C2C-C1C	-2.50	1.49	1.52
12	P7	201	CYC	C4C-NC	-2.50	1.32	1.37
12	JA	202	CYC	C1B-C2B	2.50	1.49	1.45
12	J9	202	CYC	C1B-C2B	2.50	1.49	1.45
12	M7	201	CYC	OB-C4B	2.50	1.28	1.23
12	W5	201	CYC	C1B-C2B	2.50	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	K5	201	CYC	C1B-C2B	2.50	1.49	1.45
12	Q5	201	CYC	C2C-C1C	-2.50	1.49	1.52
12	P5	201	CYC	OB-C4B	2.49	1.28	1.23
12	G4	201	CYC	C4D-C3D	2.49	1.48	1.42
12	G8	201	CYC	C4D-C3D	2.49	1.48	1.42
12	X7	201	CYC	OB-C4B	2.49	1.28	1.23
12	D6	201	CYC	C1B-C2B	2.49	1.49	1.45
12	o7	201	CYC	OB-C4B	2.49	1.28	1.23
12	H8	201	CYC	C4C-NC	-2.49	1.32	1.37
12	B8	202	CYC	C1B-C2B	2.49	1.49	1.45
12	M8	302	CYC	C1B-C2B	2.49	1.49	1.45
12	R5	201	CYC	OB-C4B	2.49	1.28	1.23
12	o7	201	CYC	C1B-C2B	2.49	1.49	1.45
12	K3	201	CYC	C4D-C3D	2.49	1.48	1.42
12	K1	201	CYC	C4D-C3D	2.49	1.48	1.42
12	K4	201	CYC	C2C-C1C	-2.49	1.49	1.52
12	K8	201	CYC	C2C-C1C	-2.49	1.49	1.52
12	H7	201	CYC	C4C-NC	-2.49	1.32	1.37
12	Q5	201	CYC	C1B-C2B	2.49	1.49	1.45
12	B7	201	CYC	C4C-NC	-2.49	1.32	1.37
12	d7	201	CYC	C4C-NC	-2.49	1.32	1.37
12	A	201	CYC	OB-C4B	2.49	1.28	1.23
12	J7	201	CYC	C4C-NC	-2.49	1.32	1.37
12	u7	201	CYC	C1B-C2B	2.49	1.49	1.45
12	P5	201	CYC	C4C-NC	-2.48	1.32	1.37
12	H5	201	CYC	OB-C4B	2.48	1.28	1.23
12	X4	201	CYC	C4D-C3D	2.48	1.48	1.42
12	X8	201	CYC	C4D-C3D	2.48	1.48	1.42
12	B5	201	CYC	C1A-C2A	2.48	1.49	1.45
12	K2	201	CYC	C1B-C2B	2.48	1.49	1.45
12	O1	201	CYC	C1B-NB	-2.48	1.33	1.37
12	O3	201	CYC	C1B-NB	-2.48	1.33	1.37
12	I6	201	CYC	C1B-NB	-2.48	1.33	1.37
12	V5	201	CYC	C4C-NC	-2.48	1.32	1.37
12	I4	201	CYC	C1B-NB	-2.48	1.33	1.37
12	I8	201	CYC	C1B-NB	-2.48	1.33	1.37
12	S1	201	CYC	C1C-NC	-2.48	1.34	1.37
12	S3	201	CYC	C1C-NC	-2.48	1.34	1.37
12	D9	201	CYC	C1B-C2B	2.48	1.49	1.45
12	X3	201	CYC	C1B-C2B	2.48	1.49	1.45
12	X1	201	CYC	C1B-C2B	2.48	1.49	1.45
12	C2	201	CYC	C4D-C3D	2.48	1.48	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	S7	201	CYC	OB-C4B	2.48	1.28	1.23
12	F6	201	CYC	C1B-C2B	2.48	1.49	1.45
12	K6	201	CYC	C1B-C2B	2.48	1.49	1.45
12	L7	201	CYC	OB-C4B	2.48	1.28	1.23
12	Q1	201	CYC	C2C-C1C	-2.47	1.49	1.52
12	Q3	201	CYC	C2C-C1C	-2.47	1.49	1.52
12	o7	201	CYC	C2C-C1C	-2.47	1.49	1.52
12	H4	201	CYC	C4C-NC	-2.47	1.32	1.37
12	C5	201	CYC	C1B-C2B	2.47	1.49	1.45
12	Y3	201	CYC	C1B-NB	-2.47	1.33	1.37
12	Y1	201	CYC	C1B-NB	-2.47	1.33	1.37
12	W3	201	CYC	C1B-C2B	2.47	1.49	1.45
12	V4	201	CYC	C1B-C2B	2.47	1.49	1.45
12	W1	201	CYC	C1B-C2B	2.47	1.49	1.45
12	R4	201	CYC	C4D-C3D	2.47	1.48	1.42
12	R8	201	CYC	C4D-C3D	2.47	1.48	1.42
12	k7	201	CYC	OB-C4B	2.47	1.28	1.23
12	GA	201	CYC	C1B-NB	-2.47	1.33	1.37
12	UA	201	CYC	C1B-NB	-2.47	1.33	1.37
12	K2	201	CYC	C1B-NB	-2.47	1.33	1.37
12	G9	201	CYC	C1B-NB	-2.47	1.33	1.37
12	U9	201	CYC	C1B-NB	-2.47	1.33	1.37
12	j7	201	CYC	C4C-NC	-2.47	1.32	1.37
12	W5	201	CYC	OB-C4B	2.47	1.28	1.23
12	V7	201	CYC	OB-C4B	2.47	1.28	1.23
12	T3	301	CYC	C1B-C2B	2.47	1.49	1.45
12	T1	301	CYC	C1B-C2B	2.47	1.49	1.45
12	I2	201	CYC	C1B-NB	-2.47	1.33	1.37
12	R7	201	CYC	C4C-NC	-2.47	1.32	1.37
12	Q5	201	CYC	OB-C4B	2.46	1.28	1.23
12	A1	201	CYC	C1C-NC	-2.46	1.34	1.37
12	A3	201	CYC	C1C-NC	-2.46	1.34	1.37
12	W5	201	CYC	C2C-C1C	-2.46	1.49	1.52
12	Q7	201	CYC	C2C-C1C	-2.46	1.49	1.52
12	Z	201	CYC	OB-C4B	2.46	1.28	1.23
12	B7	201	CYC	OB-C4B	2.46	1.28	1.23
12	f7	201	CYC	OB-C4B	2.46	1.28	1.23
12	YA	201	CYC	C1B-NB	-2.46	1.33	1.37
12	Y9	201	CYC	C1B-NB	-2.46	1.33	1.37
12	UA	201	CYC	C1B-C2B	2.46	1.49	1.45
12	U9	201	CYC	C1B-C2B	2.46	1.49	1.45
12	k5	1203	CYC	C4C-NC	-2.46	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	I7	201	CYC	C1B-C2B	2.46	1.49	1.45
12	C6	201	CYC	C4D-C3D	2.46	1.48	1.42
12	G1	201	CYC	C1B-C2B	2.46	1.49	1.45
12	I5	201	CYC	C1B-C2B	2.46	1.49	1.45
12	H5	201	CYC	C4C-NC	-2.46	1.32	1.37
12	B5	201	CYC	C4C-NC	-2.46	1.32	1.37
12	T4	201	CYC	C4D-C3D	2.46	1.48	1.42
12	T8	201	CYC	C4D-C3D	2.46	1.48	1.42
12	G1	201	CYC	C1B-NB	-2.46	1.33	1.37
12	b5	201	CYC	OB-C4B	2.46	1.28	1.23
12	k5	1202	CYC	OB-C4B	2.46	1.28	1.23
12	K3	201	CYC	C1B-NB	-2.45	1.33	1.37
12	K1	201	CYC	C1B-NB	-2.45	1.33	1.37
12	YA	201	CYC	C4D-C3D	2.45	1.48	1.42
12	O1	201	CYC	C4D-C3D	2.45	1.48	1.42
12	O3	201	CYC	C4D-C3D	2.45	1.48	1.42
12	Y9	201	CYC	C4D-C3D	2.45	1.48	1.42
12	b7	201	CYC	OB-C4B	2.45	1.28	1.23
12	P8	201	CYC	C1B-C2B	2.45	1.49	1.45
12	G4	201	CYC	C1B-C2B	2.45	1.49	1.45
12	G8	201	CYC	C1B-C2B	2.45	1.49	1.45
12	H7	201	CYC	OB-C4B	2.45	1.28	1.23
12	AA	201	CYC	C1B-C2B	2.45	1.49	1.45
12	C7	201	CYC	C1B-C2B	2.45	1.49	1.45
12	A9	201	CYC	C1B-C2B	2.45	1.49	1.45
12	X7	201	CYC	C4C-NC	-2.45	1.32	1.37
12	c7	201	CYC	C2C-C1C	-2.45	1.49	1.52
12	A2	201	CYC	C1B-C2B	2.45	1.49	1.45
12	c5	201	CYC	C1B-C2B	2.45	1.49	1.45
12	SA	201	CYC	C4D-C3D	2.45	1.48	1.42
12	S9	201	CYC	C4D-C3D	2.45	1.48	1.42
12	j5	1202	CYC	OB-C4B	2.45	1.28	1.23
12	C3	201	CYC	C1B-NB	-2.45	1.33	1.37
12	C1	201	CYC	C1B-NB	-2.45	1.33	1.37
12	U5	201	CYC	C1B-C2B	2.45	1.49	1.45
12	j5	1202	CYC	C1A-C2A	2.45	1.49	1.45
12	W7	201	CYC	C2C-C1C	-2.45	1.49	1.52
12	N8	201	CYC	C1B-NB	-2.45	1.33	1.37
12	OA	201	CYC	C1B-C2B	2.45	1.49	1.45
12	C4	201	CYC	C1B-C2B	2.45	1.49	1.45
12	C8	201	CYC	C1B-C2B	2.45	1.49	1.45
12	O9	201	CYC	C1B-C2B	2.45	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	WA	201	CYC	C1B-C2B	2.44	1.49	1.45
12	W9	201	CYC	C1B-C2B	2.44	1.49	1.45
12	V8	201	CYC	C1B-C2B	2.44	1.49	1.45
12	O1	201	CYC	C1B-C2B	2.44	1.49	1.45
12	O3	201	CYC	C1B-C2B	2.44	1.49	1.45
12	O7	201	CYC	C1B-C2B	2.44	1.49	1.45
12	F7	201	CYC	OB-C4B	2.44	1.28	1.23
12	CA	201	CYC	C4D-C3D	2.44	1.48	1.42
12	C9	201	CYC	C4D-C3D	2.44	1.48	1.42
12	L7	201	CYC	C4C-NC	-2.44	1.32	1.37
12	H5	201	CYC	C1A-C2A	2.44	1.49	1.45
12	u7	201	CYC	OB-C4B	2.44	1.28	1.23
12	I2	201	CYC	C1B-C2B	2.44	1.49	1.45
12	WA	201	CYC	C4D-C3D	2.44	1.48	1.42
12	W9	201	CYC	C4D-C3D	2.44	1.48	1.42
12	KA	201	CYC	C1B-NB	-2.44	1.33	1.37
12	K9	201	CYC	C1B-NB	-2.44	1.33	1.37
12	h7	201	CYC	C1A-C2A	2.44	1.49	1.45
12	b7	201	CYC	C1A-C2A	2.44	1.49	1.45
12	E6	201	CYC	C4D-C3D	2.44	1.48	1.42
12	E2	201	CYC	C4D-C3D	2.44	1.48	1.42
12	Y3	201	CYC	C4D-C3D	2.44	1.48	1.42
12	Y1	201	CYC	C4D-C3D	2.44	1.48	1.42
12	E4	201	CYC	C4D-C3D	2.44	1.48	1.42
12	E8	201	CYC	C4D-C3D	2.44	1.48	1.42
12	FA	301	CYC	C1B-C2B	2.44	1.49	1.45
12	F9	301	CYC	C1B-C2B	2.44	1.49	1.45
12	Z5	201	CYC	C4C-NC	-2.44	1.32	1.37
12	Y5	201	CYC	C1B-C2B	2.43	1.49	1.45
12	QA	201	CYC	C4D-C3D	2.43	1.48	1.42
12	F7	201	CYC	C4C-NC	-2.43	1.32	1.37
12	AA	201	CYC	C1B-NB	-2.43	1.33	1.37
12	A9	201	CYC	C1B-NB	-2.43	1.33	1.37
12	N4	201	CYC	C1B-NB	-2.43	1.33	1.37
12	EA	201	CYC	C4D-C3D	2.43	1.48	1.42
12	E9	201	CYC	C4D-C3D	2.43	1.48	1.42
12	D5	201	CYC	C1A-C2A	2.43	1.49	1.45
12	O5	201	CYC	C1B-C2B	2.43	1.49	1.45
12	S1	201	CYC	C1B-NB	-2.43	1.33	1.37
12	S3	201	CYC	C1B-NB	-2.43	1.33	1.37
12	R1	201	CYC	C1B-C2B	2.43	1.49	1.45
12	R3	201	CYC	C1B-C2B	2.43	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	G3	201	CYC	C1B-C2B	2.43	1.49	1.45
12	N7	201	CYC	C4C-NC	-2.43	1.32	1.37
12	W1	201	CYC	C1B-NB	-2.42	1.33	1.37
12	N5	201	CYC	OB-C4B	2.42	1.28	1.23
12	k5	1204	CYC	C1A-C2A	2.42	1.49	1.45
12	Q9	201	CYC	C4D-C3D	2.42	1.48	1.42
12	L3	202	CYC	C1B-C2B	2.42	1.49	1.45
12	h7	201	CYC	OB-C4B	2.42	1.28	1.23
12	T7	201	CYC	C4C-NC	-2.42	1.32	1.37
12	A1	201	CYC	C1B-NB	-2.42	1.33	1.37
12	A3	201	CYC	C1B-NB	-2.42	1.33	1.37
12	Q1	201	CYC	C1B-C2B	2.42	1.49	1.45
12	Q3	201	CYC	C1B-C2B	2.42	1.49	1.45
12	A1	201	CYC	C4D-C3D	2.42	1.48	1.42
12	A3	201	CYC	C4D-C3D	2.42	1.48	1.42
12	H1	201	CYC	OB-C4B	2.42	1.28	1.23
12	G2	201	CYC	C4D-C3D	2.42	1.48	1.42
12	KA	201	CYC	C1B-C2B	2.42	1.49	1.45
12	K9	201	CYC	C1B-C2B	2.42	1.49	1.45
12	K6	201	CYC	C1B-NB	-2.42	1.33	1.37
12	I3	201	CYC	C4D-C3D	2.42	1.48	1.42
12	I1	201	CYC	C4D-C3D	2.42	1.48	1.42
12	TA	301	CYC	C1B-C2B	2.42	1.49	1.45
12	T9	301	CYC	C1B-C2B	2.42	1.49	1.45
12	M5	201	CYC	OB-C4B	2.42	1.28	1.23
12	AA	201	CYC	C4D-C3D	2.42	1.48	1.42
12	W3	201	CYC	C4D-C3D	2.42	1.48	1.42
12	A9	201	CYC	C4D-C3D	2.42	1.48	1.42
12	W1	201	CYC	C4D-C3D	2.42	1.48	1.42
12	CA	201	CYC	C1B-NB	-2.42	1.33	1.37
12	C9	201	CYC	C1B-NB	-2.42	1.33	1.37
12	J5	201	CYC	C1A-C2A	2.42	1.49	1.45
12	T5	201	CYC	OB-C4B	2.41	1.28	1.23
12	K4	201	CYC	C4D-C3D	2.41	1.48	1.42
12	K8	201	CYC	C4D-C3D	2.41	1.48	1.42
12	H3	202	CYC	OB-C4B	2.41	1.28	1.23
12	J7	201	CYC	C1A-C2A	2.41	1.49	1.45
12	OA	201	CYC	C4D-C3D	2.41	1.48	1.42
12	O9	201	CYC	C4D-C3D	2.41	1.48	1.42
12	N4	201	CYC	C1B-C2B	2.41	1.49	1.45
12	N8	201	CYC	C1B-C2B	2.41	1.49	1.45
12	E3	201	CYC	C1B-C2B	2.41	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	E1	201	CYC	C1B-C2B	2.41	1.49	1.45
12	S5	201	CYC	OB-C4B	2.41	1.28	1.23
12	k5	1204	CYC	OB-C4B	2.41	1.28	1.23
12	IA	201	CYC	C4D-C3D	2.41	1.48	1.42
12	IA	201	CYC	C1B-C2B	2.41	1.49	1.45
12	I9	201	CYC	C1B-C2B	2.41	1.49	1.45
12	RA	201	CYC	C1B-C2B	2.41	1.49	1.45
12	R9	201	CYC	C1B-C2B	2.41	1.49	1.45
12	C3	201	CYC	C4D-C3D	2.41	1.48	1.42
12	C1	201	CYC	C4D-C3D	2.41	1.48	1.42
12	P4	201	CYC	C1B-C2B	2.41	1.49	1.45
12	C4	201	CYC	C4D-C3D	2.40	1.48	1.42
12	C8	201	CYC	C4D-C3D	2.40	1.48	1.42
12	V7	201	CYC	C1A-C2A	2.40	1.49	1.45
12	G3	201	CYC	C1B-NB	-2.40	1.33	1.37
12	GA	201	CYC	C4D-C3D	2.40	1.48	1.42
12	G9	201	CYC	C4D-C3D	2.40	1.48	1.42
12	F5	201	CYC	C4C-NC	-2.40	1.32	1.37
12	I9	201	CYC	C4D-C3D	2.40	1.48	1.42
12	KA	201	CYC	C4D-C3D	2.40	1.48	1.42
12	K9	201	CYC	C4D-C3D	2.40	1.48	1.42
12	G4	201	CYC	C1B-NB	-2.40	1.33	1.37
12	G8	201	CYC	C1B-NB	-2.40	1.33	1.37
12	W7	201	CYC	C1B-C2B	2.40	1.49	1.45
12	A4	201	CYC	C4D-C3D	2.40	1.48	1.42
12	A8	201	CYC	C4D-C3D	2.40	1.48	1.42
12	LA	202	CYC	OB-C4B	2.40	1.28	1.23
12	L9	202	CYC	OB-C4B	2.40	1.28	1.23
12	I6	201	CYC	C1B-C2B	2.40	1.49	1.45
12	EA	201	CYC	C1B-NB	-2.39	1.33	1.37
12	E8	201	CYC	C1B-NB	-2.39	1.33	1.37
12	U3	201	CYC	C1B-C2B	2.39	1.49	1.45
12	R4	201	CYC	C1B-C2B	2.39	1.49	1.45
12	R8	201	CYC	C1B-C2B	2.39	1.49	1.45
12	U1	201	CYC	C1B-C2B	2.39	1.49	1.45
12	P5	201	CYC	C4D-C3D	2.39	1.48	1.42
12	GA	201	CYC	C1C-NC	-2.39	1.34	1.37
12	G9	201	CYC	C1C-NC	-2.39	1.34	1.37
12	VA	201	CYC	OB-C4B	2.39	1.28	1.23
12	V9	201	CYC	OB-C4B	2.39	1.28	1.23
12	L5	201	CYC	C4C-NC	-2.39	1.32	1.37
12	E9	201	CYC	C1B-NB	-2.39	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	K8	201	CYC	C1B-NB	-2.39	1.33	1.37
12	I3	201	CYC	C1B-C2B	2.39	1.49	1.45
12	T4	201	CYC	C1B-C2B	2.39	1.49	1.45
12	T8	201	CYC	C1B-C2B	2.39	1.49	1.45
12	I1	201	CYC	C1B-C2B	2.39	1.49	1.45
12	T7	201	CYC	C1A-C2A	2.39	1.49	1.45
12	W4	201	CYC	C1B-C2B	2.39	1.49	1.45
12	W8	201	CYC	C1B-C2B	2.39	1.49	1.45
12	W3	201	CYC	C1B-NB	-2.39	1.33	1.37
12	V5	201	CYC	C4D-C3D	2.39	1.48	1.42
12	G3	201	CYC	C4D-C3D	2.39	1.48	1.42
12	G1	201	CYC	C4D-C3D	2.39	1.48	1.42
12	G2	201	CYC	C1B-NB	-2.39	1.33	1.37
12	P1	201	CYC	C1B-C2B	2.39	1.49	1.45
12	P3	201	CYC	C1B-C2B	2.39	1.49	1.45
12	k5	1202	CYC	C4C-NC	-2.38	1.32	1.37
12	IA	201	CYC	C2C-C1C	-2.38	1.50	1.52
12	K3	201	CYC	C2C-C1C	-2.38	1.50	1.52
12	I9	201	CYC	C2C-C1C	-2.38	1.50	1.52
12	K4	201	CYC	C1B-NB	-2.38	1.33	1.37
12	u7	201	CYC	C2C-C1C	-2.38	1.50	1.52
12	WA	201	CYC	C1B-NB	-2.38	1.33	1.37
12	R5	201	CYC	C4C-NC	-2.38	1.32	1.37
12	aA	902	CYC	C1B-C2B	2.38	1.49	1.45
12	CA	201	CYC	C1B-C2B	2.38	1.49	1.45
12	J3	202	CYC	C1B-C2B	2.38	1.49	1.45
12	M4	301	CYC	C1B-C2B	2.38	1.49	1.45
12	C9	201	CYC	C1B-C2B	2.38	1.49	1.45
12	aA	901	CYC	C1B-C2B	2.38	1.49	1.45
12	D7	201	CYC	C1A-C2A	2.38	1.49	1.45
12	V4	201	CYC	C1B-NB	-2.38	1.33	1.37
12	G6	201	CYC	C4D-C3D	2.38	1.48	1.42
12	J4	201	CYC	OB-C4B	2.38	1.28	1.23
12	J8	201	CYC	OB-C4B	2.38	1.28	1.23
12	X4	201	CYC	C1B-C2B	2.38	1.49	1.45
12	X8	201	CYC	C1B-C2B	2.38	1.49	1.45
12	Q1	201	CYC	C1B-NB	-2.38	1.33	1.37
12	Q3	201	CYC	C1B-NB	-2.38	1.33	1.37
12	k5	1204	CYC	C4D-C3D	2.37	1.48	1.42
12	P4	201	CYC	C1B-NB	-2.37	1.33	1.37
12	P8	201	CYC	C1B-NB	-2.37	1.33	1.37
12	Y5	201	CYC	C2C-C1C	-2.37	1.50	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	E4	201	CYC	C1B-NB	-2.37	1.33	1.37
12	A2	201	CYC	C1C-NC	-2.37	1.34	1.37
12	E2	201	CYC	C1B-C2B	2.37	1.49	1.45
12	f5	201	CYC	OB-C4B	2.37	1.28	1.23
12	D4	202	CYC	C1B-C2B	2.37	1.49	1.45
12	D8	202	CYC	C1B-C2B	2.37	1.49	1.45
12	U4	201	CYC	C1B-C2B	2.37	1.49	1.45
12	U8	201	CYC	C1B-C2B	2.37	1.49	1.45
12	U9	201	CYC	C1C-NC	-2.37	1.34	1.37
12	X5	201	CYC	C4C-NC	-2.37	1.32	1.37
12	V7	201	CYC	C4D-C3D	2.37	1.48	1.42
12	QA	201	CYC	C1B-NB	-2.36	1.33	1.37
12	R5	201	CYC	C1A-C2A	2.36	1.49	1.45
12	O4	201	CYC	C1B-C2B	2.36	1.49	1.45
12	O8	201	CYC	C1B-C2B	2.36	1.49	1.45
12	PA	201	CYC	C1B-C2B	2.36	1.49	1.45
12	P9	201	CYC	C1B-C2B	2.36	1.49	1.45
12	G2	201	CYC	C1B-C2B	2.36	1.49	1.45
12	U7	201	CYC	C1B-C2B	2.36	1.49	1.45
12	L2	201	CYC	C1B-C2B	2.36	1.49	1.45
12	U4	201	CYC	OB-C4B	2.36	1.28	1.23
12	U8	201	CYC	OB-C4B	2.36	1.28	1.23
12	d5	201	CYC	C4C-NC	-2.36	1.32	1.37
12	V4	201	CYC	C4D-C3D	2.36	1.48	1.42
12	V8	201	CYC	C4D-C3D	2.36	1.48	1.42
12	f7	201	CYC	C4C-NC	-2.36	1.32	1.37
12	UA	201	CYC	C1C-NC	-2.36	1.34	1.37
12	j5	1202	CYC	C4D-C3D	2.36	1.48	1.42
12	I6	201	CYC	C4D-C3D	2.36	1.48	1.42
12	Q9	201	CYC	C1B-NB	-2.36	1.33	1.37
12	HA	202	CYC	OB-C4B	2.36	1.28	1.23
12	N2	101	CYC	C1B-C2B	2.36	1.49	1.45
12	E3	201	CYC	C1B-NB	-2.36	1.33	1.37
12	E1	201	CYC	C1B-NB	-2.36	1.33	1.37
12	ZA	202	CYC	C1B-C2B	2.36	1.49	1.45
12	E6	201	CYC	C1B-C2B	2.36	1.49	1.45
12	Q9	201	CYC	C1B-C2B	2.36	1.49	1.45
12	Z9	202	CYC	C1B-C2B	2.36	1.49	1.45
12	L6	201	CYC	C1B-C2B	2.36	1.49	1.45
12	K1	201	CYC	C2C-C1C	-2.36	1.50	1.52
12	L5	201	CYC	C1A-C2A	2.36	1.49	1.45
12	S4	202	CYC	OB-C4B	2.36	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	H9	202	CYC	OB-C4B	2.36	1.28	1.23
12	X4	201	CYC	C1B-NB	-2.35	1.33	1.37
12	X8	201	CYC	C1B-NB	-2.35	1.33	1.37
12	JA	202	CYC	OB-C4B	2.35	1.28	1.23
12	J9	202	CYC	OB-C4B	2.35	1.28	1.23
12	A6	201	CYC	C4D-C3D	2.35	1.48	1.42
12	A2	201	CYC	C4D-C3D	2.35	1.48	1.42
12	V5	201	CYC	C1A-C2A	2.35	1.49	1.45
12	A1	201	CYC	C1B-C2B	2.35	1.49	1.45
12	A3	201	CYC	C1B-C2B	2.35	1.49	1.45
12	E7	201	CYC	C2C-C1C	-2.35	1.50	1.52
12	X7	201	CYC	C1A-C2A	2.35	1.49	1.45
12	O1	201	CYC	C1C-NC	-2.35	1.34	1.37
12	O3	201	CYC	C1C-NC	-2.35	1.34	1.37
12	G6	201	CYC	C1B-NB	-2.35	1.33	1.37
12	X3	201	CYC	OB-C4B	2.35	1.28	1.23
12	X1	201	CYC	OB-C4B	2.35	1.28	1.23
12	G2	201	CYC	C1C-NC	-2.35	1.34	1.37
12	G6	201	CYC	C1C-NC	-2.35	1.34	1.37
12	K3	201	CYC	C1C-NC	-2.35	1.34	1.37
12	K1	201	CYC	C1C-NC	-2.35	1.34	1.37
12	F5	201	CYC	C1A-C2A	2.35	1.49	1.45
12	h7	201	CYC	C4D-C3D	2.35	1.48	1.42
12	E4	201	CYC	C1C-NC	-2.35	1.34	1.37
12	E8	201	CYC	C1C-NC	-2.35	1.34	1.37
12	i7	201	CYC	C2C-C1C	-2.35	1.50	1.52
12	W9	201	CYC	C1B-NB	-2.35	1.33	1.37
12	F3	201	CYC	C1B-C2B	2.35	1.49	1.45
12	F1	201	CYC	C1B-C2B	2.35	1.49	1.45
12	X9	201	CYC	C1B-C2B	2.35	1.49	1.45
12	VA	201	CYC	C1B-C2B	2.34	1.49	1.45
12	V9	201	CYC	C1B-C2B	2.34	1.49	1.45
12	V8	201	CYC	C1B-NB	-2.34	1.33	1.37
12	XA	201	CYC	OB-C4B	2.34	1.28	1.23
12	X9	201	CYC	OB-C4B	2.34	1.28	1.23
12	G6	201	CYC	C1B-C2B	2.34	1.49	1.45
12	N7	201	CYC	C1A-C2A	2.34	1.49	1.45
12	P5	201	CYC	C1A-C2A	2.34	1.49	1.45
12	K6	201	CYC	C4D-C3D	2.34	1.48	1.42
12	E3	201	CYC	C1C-NC	-2.34	1.34	1.37
12	E1	201	CYC	C1C-NC	-2.34	1.34	1.37
12	B9	201	CYC	OB-C4B	2.34	1.28	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	X3	202	CYC	C4C-NC	-2.34	1.32	1.37
12	X1	202	CYC	C4C-NC	-2.34	1.32	1.37
12	QA	201	CYC	C1B-C2B	2.34	1.49	1.45
12	J6	202	CYC	C1B-C2B	2.34	1.49	1.45
12	v7	201	CYC	C4C-NC	-2.34	1.32	1.37
12	D5	201	CYC	C4D-C3D	2.34	1.48	1.42
12	C3	201	CYC	C1B-C2B	2.34	1.49	1.45
12	T4	201	CYC	C1B-NB	-2.34	1.33	1.37
12	T8	201	CYC	C1B-NB	-2.34	1.33	1.37
12	J7	201	CYC	C4D-C3D	2.34	1.48	1.42
12	A1	201	CYC	C2C-C1C	-2.34	1.50	1.52
12	A3	201	CYC	C2C-C1C	-2.34	1.50	1.52
12	D7	201	CYC	C4D-C3D	2.34	1.48	1.42
12	b7	201	CYC	C4D-C3D	2.34	1.48	1.42
12	Z5	201	CYC	C1A-C2A	2.34	1.49	1.45
12	YA	201	CYC	C1B-C2B	2.33	1.49	1.45
12	Y9	201	CYC	C1B-C2B	2.33	1.49	1.45
12	L2	201	CYC	C1A-NA	-2.33	1.33	1.38
12	L6	201	CYC	C1A-NA	-2.33	1.33	1.38
12	L4	202	CYC	C1B-C2B	2.33	1.49	1.45
12	I2	201	CYC	C4D-C3D	2.33	1.48	1.42
12	p7	201	CYC	C4C-NC	-2.33	1.32	1.37
12	R4	201	CYC	C1B-NB	-2.33	1.33	1.37
12	R8	201	CYC	C1B-NB	-2.33	1.33	1.37
12	ZA	202	CYC	OB-C4B	2.33	1.28	1.23
12	V3	201	CYC	OB-C4B	2.33	1.28	1.23
12	Z9	202	CYC	OB-C4B	2.33	1.28	1.23
12	V1	201	CYC	OB-C4B	2.33	1.28	1.23
12	X5	201	CYC	C1A-C2A	2.33	1.49	1.45
12	C2	201	CYC	C1B-NB	-2.33	1.33	1.37
12	F4	202	CYC	C1B-C2B	2.33	1.49	1.45
12	F8	202	CYC	C1B-C2B	2.33	1.49	1.45
12	I3	201	CYC	C1C-NC	-2.33	1.34	1.37
12	I1	201	CYC	C1C-NC	-2.33	1.34	1.37
12	K4	201	CYC	C1B-C2B	2.33	1.49	1.45
12	K8	201	CYC	C1B-C2B	2.33	1.49	1.45
12	N4	201	CYC	C4D-C3D	2.33	1.47	1.42
12	N8	201	CYC	C4D-C3D	2.33	1.47	1.42
12	L3	201	CYC	C4C-NC	-2.33	1.32	1.37
12	a9	901	CYC	C1B-C2B	2.33	1.49	1.45
12	B3	202	CYC	C1B-C2B	2.33	1.49	1.45
12	B1	202	CYC	C1B-C2B	2.33	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	J4	201	CYC	C1B-C2B	2.33	1.49	1.45
12	J8	201	CYC	C1B-C2B	2.33	1.49	1.45
12	Z4	301	CYC	C1B-C2B	2.32	1.49	1.45
12	G7	201	CYC	C2C-C1C	-2.32	1.50	1.52
12	XA	202	CYC	C4C-NC	-2.32	1.32	1.37
12	X9	202	CYC	C4C-NC	-2.32	1.32	1.37
12	RA	202	CYC	C1B-C2B	2.32	1.49	1.45
12	R9	202	CYC	C1B-C2B	2.32	1.49	1.45
12	E4	201	CYC	C1B-C2B	2.32	1.49	1.45
12	P7	201	CYC	C4D-C3D	2.32	1.47	1.42
12	IA	201	CYC	C1B-NB	-2.32	1.33	1.37
12	I9	201	CYC	C1B-NB	-2.32	1.33	1.37
12	f5	201	CYC	C1A-C2A	2.32	1.49	1.45
12	P1	201	CYC	O2D-CGD	-2.32	1.23	1.30
12	P3	201	CYC	O2D-CGD	-2.32	1.23	1.30
12	S5	201	CYC	C2C-C1C	-2.32	1.50	1.52
12	Z3	201	CYC	OB-C4B	2.32	1.28	1.23
12	Z1	202	CYC	OB-C4B	2.32	1.28	1.23
12	W4	201	CYC	OB-C4B	2.32	1.28	1.23
12	W8	201	CYC	OB-C4B	2.32	1.28	1.23
12	BA	201	CYC	OB-C4B	2.32	1.28	1.23
12	C4	201	CYC	C1C-NC	-2.31	1.34	1.37
12	P4	201	CYC	C1C-NC	-2.31	1.34	1.37
12	C8	201	CYC	C1C-NC	-2.31	1.34	1.37
12	P8	201	CYC	C1C-NC	-2.31	1.34	1.37
12	K2	201	CYC	C4D-C3D	2.31	1.47	1.42
12	M8	301	CYC	C1B-C2B	2.31	1.49	1.45
12	B3	202	CYC	OB-C4B	2.31	1.28	1.23
12	N2	101	CYC	OB-C4B	2.31	1.28	1.23
12	N6	101	CYC	OB-C4B	2.31	1.28	1.23
12	b5	201	CYC	C1A-C2A	2.31	1.49	1.45
12	C1	201	CYC	C1B-C2B	2.31	1.49	1.45
12	I4	201	CYC	C4D-C3D	2.31	1.47	1.42
12	I8	201	CYC	C4D-C3D	2.31	1.47	1.42
12	K4	201	CYC	C1C-NC	-2.31	1.34	1.37
12	K8	201	CYC	C1C-NC	-2.31	1.34	1.37
12	J5	201	CYC	C4D-C3D	2.31	1.47	1.42
12	I3	201	CYC	C1B-NB	-2.31	1.33	1.37
12	I1	201	CYC	C1B-NB	-2.31	1.33	1.37
12	J2	202	CYC	OB-C4B	2.31	1.27	1.23
12	J6	202	CYC	OB-C4B	2.31	1.27	1.23
12	A6	201	CYC	C1C-NC	-2.31	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	H2	201	CYC	OB-C4B	2.31	1.27	1.23
12	LA	202	CYC	C1B-C2B	2.31	1.49	1.45
12	L4	202	CYC	OB-C4B	2.31	1.27	1.23
12	a5	201	CYC	C2C-C1C	-2.31	1.50	1.52
12	Q1	201	CYC	C4D-C3D	2.31	1.47	1.42
12	Q3	201	CYC	C4D-C3D	2.31	1.47	1.42
12	XA	201	CYC	C1B-C2B	2.31	1.49	1.45
12	C6	201	CYC	C1B-NB	-2.31	1.33	1.37
12	B1	202	CYC	OB-C4B	2.31	1.27	1.23
12	M8	302	CYC	OB-C4B	2.31	1.27	1.23
12	K7	201	CYC	C2C-C1C	-2.30	1.50	1.52
12	A4	201	CYC	C1C-NC	-2.30	1.34	1.37
12	A8	201	CYC	C1C-NC	-2.30	1.34	1.37
12	N6	101	CYC	C1B-C2B	2.30	1.49	1.45
12	Z3	201	CYC	C1B-C2B	2.30	1.49	1.45
12	PA	201	CYC	OB-C4B	2.30	1.27	1.23
12	P9	201	CYC	OB-C4B	2.30	1.27	1.23
12	PA	202	CYC	C4C-NC	-2.30	1.32	1.37
12	P9	202	CYC	C4C-NC	-2.30	1.32	1.37
12	Z1	202	CYC	C1B-C2B	2.30	1.49	1.45
12	R1	201	CYC	OB-C4B	2.30	1.27	1.23
12	R3	201	CYC	OB-C4B	2.30	1.27	1.23
12	T7	201	CYC	C4D-C3D	2.30	1.47	1.42
12	L1	201	CYC	C4C-NC	-2.30	1.32	1.37
12	k5	1203	CYC	C1A-C2A	2.30	1.49	1.45
12	E8	201	CYC	C1B-C2B	2.30	1.49	1.45
12	R1	202	CYC	C4C-NC	-2.29	1.32	1.37
12	R3	202	CYC	C4C-NC	-2.29	1.32	1.37
12	N7	201	CYC	C4D-C3D	2.29	1.47	1.42
12	M8	301	CYC	C1A-NA	-2.29	1.33	1.38
12	e7	201	CYC	C2C-C1C	-2.29	1.50	1.52
12	L9	202	CYC	C1B-C2B	2.29	1.49	1.45
12	Y7	201	CYC	C2C-C1C	-2.29	1.50	1.52
12	L3	202	CYC	OB-C4B	2.29	1.27	1.23
12	aA	902	CYC	OB-C4B	2.29	1.27	1.23
12	N5	201	CYC	C1A-C2A	2.29	1.49	1.45
12	Z8	301	CYC	O2D-CGD	-2.29	1.23	1.30
12	KA	201	CYC	C1C-NC	-2.29	1.34	1.37
12	K9	201	CYC	C1C-NC	-2.29	1.34	1.37
12	D3	202	CYC	O2D-CGD	-2.29	1.23	1.30
12	D1	202	CYC	O2D-CGD	-2.29	1.23	1.30
12	H3	202	CYC	C1B-C2B	2.29	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	A7	201	CYC	C2C-C1C	-2.29	1.50	1.52
12	H1	201	CYC	C1B-C2B	2.29	1.49	1.45
12	S7	201	CYC	C2C-C1C	-2.29	1.50	1.52
12	F2	201	CYC	O2D-CGD	-2.29	1.23	1.30
12	a9	901	CYC	OB-C4B	2.28	1.27	1.23
12	M8	301	CYC	OB-C4B	2.28	1.27	1.23
12	Z8	301	CYC	C1B-C2B	2.28	1.49	1.45
12	F4	202	CYC	OB-C4B	2.28	1.27	1.23
12	H4	201	CYC	OB-C4B	2.28	1.27	1.23
12	H8	201	CYC	OB-C4B	2.28	1.27	1.23
12	B3	202	CYC	O2D-CGD	-2.28	1.23	1.30
12	SA	201	CYC	C1B-C2B	2.28	1.49	1.45
12	S9	201	CYC	C1B-C2B	2.28	1.49	1.45
12	E2	201	CYC	C1B-NB	-2.28	1.33	1.37
12	j7	201	CYC	C1A-C2A	2.28	1.49	1.45
12	F7	201	CYC	C4D-C3D	2.28	1.47	1.42
12	E5	201	CYC	C2C-C1C	-2.28	1.50	1.52
12	F6	202	CYC	C4C-NC	-2.28	1.33	1.37
12	M7	201	CYC	C2C-C1C	-2.28	1.50	1.52
12	d5	201	CYC	C1A-C2A	2.28	1.49	1.45
12	J2	202	CYC	C1B-C2B	2.28	1.49	1.45
12	L7	201	CYC	C4D-C3D	2.28	1.47	1.42
12	a7	201	CYC	C2C-C1C	-2.28	1.50	1.52
12	G1	201	CYC	C1C-NC	-2.27	1.34	1.37
12	H6	201	CYC	OB-C4B	2.27	1.27	1.23
12	v7	201	CYC	C4D-C3D	2.27	1.47	1.42
12	U4	202	CYC	C4C-NC	-2.27	1.33	1.37
12	U8	202	CYC	C4C-NC	-2.27	1.33	1.37
12	M4	301	CYC	C1A-NA	-2.27	1.33	1.38
12	F6	201	CYC	O2D-CGD	-2.27	1.23	1.30
12	H3	201	CYC	C4C-NC	-2.27	1.33	1.37
12	H1	202	CYC	C4C-NC	-2.27	1.33	1.37
12	Z	201	CYC	C4D-C3D	2.26	1.47	1.42
12	F8	202	CYC	OB-C4B	2.26	1.27	1.23
12	K5	201	CYC	C2C-C1C	-2.26	1.50	1.52
12	c5	201	CYC	C2C-C1C	-2.26	1.50	1.52
12	G4	201	CYC	C1C-NC	-2.26	1.34	1.37
12	G8	201	CYC	C1C-NC	-2.26	1.34	1.37
12	d7	201	CYC	C4D-C3D	2.26	1.47	1.42
12	BA	201	CYC	C1B-C2B	2.26	1.49	1.45
12	B9	201	CYC	C1B-C2B	2.26	1.49	1.45
12	p7	201	CYC	C4D-C3D	2.26	1.47	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	H3	202	CYC	O2D-CGD	-2.26	1.23	1.30
12	A	201	CYC	C4D-C3D	2.26	1.47	1.42
12	X7	201	CYC	C4D-C3D	2.26	1.47	1.42
12	L4	201	CYC	C4C-NC	-2.26	1.33	1.37
12	L8	201	CYC	C4C-NC	-2.26	1.33	1.37
12	R5	201	CYC	C4D-C3D	2.26	1.47	1.42
12	HA	202	CYC	C1B-C2B	2.26	1.49	1.45
12	H7	201	CYC	C4D-C3D	2.26	1.47	1.42
12	F7	201	CYC	C1A-C2A	2.26	1.49	1.45
12	GA	201	CYC	C1B-C2B	2.26	1.49	1.45
12	G9	201	CYC	C1B-C2B	2.26	1.49	1.45
12	Z4	301	CYC	O2D-CGD	-2.26	1.23	1.30
12	B7	201	CYC	C4D-C3D	2.25	1.47	1.42
12	C4	201	CYC	C1B-NB	-2.25	1.34	1.37
12	C8	201	CYC	C1B-NB	-2.25	1.34	1.37
12	WA	201	CYC	C1C-NC	-2.25	1.34	1.37
12	N4	201	CYC	C1C-NC	-2.25	1.34	1.37
12	N8	201	CYC	C1C-NC	-2.25	1.34	1.37
12	W9	201	CYC	C1C-NC	-2.25	1.34	1.37
12	DA	202	CYC	C1B-C2B	2.25	1.49	1.45
12	D9	202	CYC	C1B-C2B	2.25	1.49	1.45
12	I5	201	CYC	C2C-C1C	-2.25	1.50	1.52
12	Z3	201	CYC	C1A-NA	-2.25	1.33	1.38
12	Z1	202	CYC	C1A-NA	-2.25	1.33	1.38
12	VA	202	CYC	C4C-NC	-2.25	1.33	1.37
12	R1	201	CYC	O2D-CGD	-2.25	1.23	1.30
12	R3	201	CYC	O2D-CGD	-2.25	1.23	1.30
12	H1	201	CYC	O2D-CGD	-2.25	1.23	1.30
12	B1	202	CYC	O2D-CGD	-2.25	1.23	1.30
12	O4	201	CYC	OB-C4B	2.25	1.27	1.23
12	O8	201	CYC	OB-C4B	2.25	1.27	1.23
12	b5	201	CYC	C4D-C3D	2.25	1.47	1.42
12	O7	201	CYC	C2C-C1C	-2.25	1.50	1.52
12	L7	201	CYC	C1A-C2A	2.25	1.49	1.45
12	p7	201	CYC	C1A-C2A	2.25	1.49	1.45
12	LA	202	CYC	C1A-NA	-2.25	1.33	1.38
12	L9	202	CYC	C1A-NA	-2.25	1.33	1.38
12	V3	201	CYC	C1B-C2B	2.25	1.49	1.45
12	V1	201	CYC	C1B-C2B	2.25	1.49	1.45
12	D3	202	CYC	OB-C4B	2.25	1.27	1.23
12	D1	202	CYC	OB-C4B	2.25	1.27	1.23
12	J4	202	CYC	C4C-NC	-2.25	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	J8	202	CYC	C4C-NC	-2.25	1.33	1.37
12	T3	302	CYC	C1B-C2B	2.25	1.49	1.45
12	H4	201	CYC	C1B-C2B	2.25	1.49	1.45
12	H8	201	CYC	C1B-C2B	2.25	1.49	1.45
12	T1	302	CYC	C1B-C2B	2.25	1.49	1.45
12	F2	201	CYC	C1A-NA	-2.25	1.33	1.38
12	D2	202	CYC	C4C-NC	-2.25	1.33	1.37
12	K2	201	CYC	C1C-NC	-2.25	1.34	1.37
12	P1	201	CYC	OB-C4B	2.24	1.27	1.23
12	P3	201	CYC	OB-C4B	2.24	1.27	1.23
12	E6	201	CYC	C1B-NB	-2.24	1.34	1.37
12	M4	301	CYC	OB-C4B	2.24	1.27	1.23
12	Y3	201	CYC	C1C-NC	-2.24	1.34	1.37
12	Y1	201	CYC	C1C-NC	-2.24	1.34	1.37
12	a9	901	CYC	C1A-NA	-2.24	1.33	1.38
12	j7	201	CYC	C4D-C3D	2.24	1.47	1.42
12	V3	201	CYC	O2D-CGD	-2.24	1.23	1.30
12	V1	201	CYC	O2D-CGD	-2.24	1.23	1.30
12	R7	201	CYC	C4D-C3D	2.24	1.47	1.42
12	W4	201	CYC	O2D-CGD	-2.24	1.23	1.30
12	W8	201	CYC	O2D-CGD	-2.24	1.23	1.30
12	G3	201	CYC	C1C-NC	-2.24	1.34	1.37
12	I4	201	CYC	C1C-NC	-2.24	1.34	1.37
12	I8	201	CYC	C1C-NC	-2.24	1.34	1.37
12	L5	201	CYC	C4D-C3D	2.24	1.47	1.42
12	s7	201	CYC	C2C-C1C	-2.24	1.50	1.52
12	D4	202	CYC	O2D-CGD	-2.24	1.23	1.30
12	D8	202	CYC	O2D-CGD	-2.24	1.23	1.30
12	D2	202	CYC	C1B-C2B	2.24	1.49	1.45
12	LA	202	CYC	O2D-CGD	-2.24	1.23	1.30
12	L9	202	CYC	O2D-CGD	-2.24	1.23	1.30
12	C5	201	CYC	C2C-C1C	-2.24	1.50	1.52
12	B8	202	CYC	O2D-CGD	-2.24	1.23	1.30
12	H4	201	CYC	O2D-CGD	-2.24	1.23	1.30
12	H8	201	CYC	O2D-CGD	-2.24	1.23	1.30
12	e5	201	CYC	C2C-C1C	-2.24	1.50	1.52
12	FA	301	CYC	OB-C4B	2.24	1.27	1.23
12	F9	301	CYC	OB-C4B	2.24	1.27	1.23
12	RA	201	CYC	C1A-NA	-2.23	1.33	1.38
12	R9	201	CYC	C1A-NA	-2.23	1.33	1.38
12	R9	201	CYC	O2D-CGD	-2.23	1.23	1.30
12	T5	201	CYC	C1A-C2A	2.23	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	H2	201	CYC	C1B-C2B	2.23	1.49	1.45
12	H6	201	CYC	C1B-C2B	2.23	1.49	1.45
12	r7	201	CYC	C1A-C2A	2.23	1.49	1.45
12	F5	201	CYC	C4D-C3D	2.23	1.47	1.42
12	D6	202	CYC	C1B-C2B	2.23	1.49	1.45
12	B5	201	CYC	C4D-C3D	2.23	1.47	1.42
12	B4	202	CYC	OB-C4B	2.23	1.27	1.23
12	RA	201	CYC	O2D-CGD	-2.23	1.23	1.30
12	B8	202	CYC	OB-C4B	2.23	1.27	1.23
12	H3	201	CYC	C1B-C2B	2.23	1.49	1.45
12	H1	202	CYC	C1B-C2B	2.23	1.49	1.45
12	j5	1201	CYC	C4B-NB	-2.23	1.32	1.38
12	J3	201	CYC	C4C-NC	-2.23	1.33	1.37
12	Z3	202	CYC	C4C-NC	-2.23	1.33	1.37
12	V9	202	CYC	C4C-NC	-2.23	1.33	1.37
12	J1	201	CYC	C4C-NC	-2.23	1.33	1.37
12	Z1	201	CYC	C4C-NC	-2.23	1.33	1.37
12	D4	202	CYC	OB-C4B	2.23	1.27	1.23
12	D8	202	CYC	OB-C4B	2.23	1.27	1.23
12	L2	201	CYC	OB-C4B	2.23	1.27	1.23
12	L6	201	CYC	OB-C4B	2.23	1.27	1.23
12	Q4	201	CYC	C4C-NC	-2.23	1.33	1.37
12	T4	201	CYC	C1C-NC	-2.23	1.34	1.37
12	T8	201	CYC	C1C-NC	-2.23	1.34	1.37
12	F3	201	CYC	O2D-CGD	-2.23	1.23	1.30
12	F1	201	CYC	O2D-CGD	-2.23	1.23	1.30
12	B4	202	CYC	O2D-CGD	-2.23	1.23	1.30
12	B6	201	CYC	C4C-NC	-2.23	1.33	1.37
12	B2	201	CYC	C4C-NC	-2.23	1.33	1.37
12	f5	201	CYC	C4D-C3D	2.23	1.47	1.42
12	N2	101	CYC	O2D-CGD	-2.23	1.23	1.30
12	E6	201	CYC	C1C-NC	-2.23	1.34	1.37
12	E2	201	CYC	C1C-NC	-2.23	1.34	1.37
12	RA	201	CYC	OB-C4B	2.23	1.27	1.23
12	R9	201	CYC	OB-C4B	2.23	1.27	1.23
12	k5	1203	CYC	C4D-C3D	2.22	1.47	1.42
12	Y9	201	CYC	C1C-NC	-2.22	1.34	1.37
12	HA	201	CYC	C4C-NC	-2.22	1.33	1.37
12	B3	201	CYC	C4C-NC	-2.22	1.33	1.37
12	m7	201	CYC	C2C-C1C	-2.22	1.50	1.52
12	H9	201	CYC	C4C-NC	-2.22	1.33	1.37
12	H5	201	CYC	C4D-C3D	2.22	1.47	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	RA	201	CYC	C4D-C3D	2.22	1.47	1.42
12	R9	201	CYC	C4D-C3D	2.22	1.47	1.42
12	TA	302	CYC	C4C-NC	-2.22	1.33	1.37
12	T9	302	CYC	C4C-NC	-2.22	1.33	1.37
12	L4	202	CYC	C1A-NA	-2.22	1.33	1.38
12	U7	201	CYC	C2C-C1C	-2.22	1.50	1.52
12	r7	201	CYC	C4D-C3D	2.22	1.47	1.42
12	BA	202	CYC	C4C-NC	-2.22	1.33	1.37
12	B9	202	CYC	C4C-NC	-2.22	1.33	1.37
12	a9	901	CYC	O2D-CGD	-2.22	1.23	1.30
12	JA	201	CYC	C4C-NC	-2.22	1.33	1.37
12	F4	201	CYC	C4C-NC	-2.22	1.33	1.37
12	F8	201	CYC	C4C-NC	-2.22	1.33	1.37
12	J9	201	CYC	C4C-NC	-2.22	1.33	1.37
12	J2	201	CYC	C1B-C2B	2.21	1.49	1.45
12	U3	201	CYC	C1C-NC	-2.21	1.34	1.37
12	U1	201	CYC	C1C-NC	-2.21	1.34	1.37
12	AA	201	CYC	C1C-NC	-2.21	1.34	1.37
12	A9	201	CYC	C1C-NC	-2.21	1.34	1.37
12	L6	201	CYC	O2D-CGD	-2.21	1.23	1.30
12	D3	202	CYC	C4D-C3D	2.21	1.47	1.42
12	D1	202	CYC	C4D-C3D	2.21	1.47	1.42
12	L4	202	CYC	O2D-CGD	-2.21	1.23	1.30
12	F6	201	CYC	OB-C4B	2.21	1.27	1.23
12	R1	201	CYC	C1A-NA	-2.21	1.33	1.38
12	R3	201	CYC	C1A-NA	-2.21	1.33	1.38
12	W3	201	CYC	C1C-NC	-2.21	1.34	1.37
12	W1	201	CYC	C1C-NC	-2.21	1.34	1.37
12	Z3	201	CYC	O2D-CGD	-2.21	1.23	1.30
12	Z1	202	CYC	O2D-CGD	-2.21	1.23	1.30
12	U4	201	CYC	O2D-CGD	-2.21	1.23	1.30
12	U8	201	CYC	O2D-CGD	-2.21	1.23	1.30
12	I7	201	CYC	C2C-C1C	-2.21	1.50	1.52
12	g7	201	CYC	C2C-C1C	-2.21	1.50	1.52
12	F2	201	CYC	OB-C4B	2.21	1.27	1.23
12	D2	201	CYC	O2D-CGD	-2.21	1.23	1.30
12	T3	302	CYC	C4C-NC	-2.21	1.33	1.37
12	T1	302	CYC	C4C-NC	-2.21	1.33	1.37
12	k5	1202	CYC	C4D-C3D	2.21	1.47	1.42
12	PA	202	CYC	C1B-C2B	2.21	1.49	1.45
12	P9	202	CYC	C1B-C2B	2.21	1.49	1.45
12	N6	101	CYC	O2D-CGD	-2.21	1.23	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	J3	202	CYC	OB-C4B	2.21	1.27	1.23
12	aA	901	CYC	OB-C4B	2.21	1.27	1.23
12	d7	201	CYC	C1A-C2A	2.21	1.49	1.45
12	F3	202	CYC	C4C-NC	-2.21	1.33	1.37
12	F1	202	CYC	C4C-NC	-2.21	1.33	1.37
12	X3	201	CYC	O2D-CGD	-2.21	1.23	1.30
12	F4	202	CYC	O2D-CGD	-2.21	1.23	1.30
12	F8	202	CYC	O2D-CGD	-2.21	1.23	1.30
12	X1	201	CYC	O2D-CGD	-2.21	1.23	1.30
12	X5	201	CYC	C4D-C3D	2.21	1.47	1.42
12	S4	201	CYC	C1D-ND	-2.21	1.34	1.37
12	S8	201	CYC	C1D-ND	-2.21	1.34	1.37
12	T3	301	CYC	OB-C4B	2.21	1.27	1.23
12	T1	301	CYC	OB-C4B	2.21	1.27	1.23
12	Q1	201	CYC	C1C-NC	-2.21	1.34	1.37
12	Q3	201	CYC	C1C-NC	-2.21	1.34	1.37
12	TA	301	CYC	O2D-CGD	-2.21	1.23	1.30
12	T9	301	CYC	O2D-CGD	-2.21	1.23	1.30
12	RA	202	CYC	C4C-NC	-2.20	1.33	1.37
12	R9	202	CYC	C4C-NC	-2.20	1.33	1.37
12	F2	202	CYC	C4C-NC	-2.20	1.33	1.37
12	Q8	201	CYC	C4C-NC	-2.20	1.33	1.37
12	PA	201	CYC	O2D-CGD	-2.20	1.23	1.30
12	P9	201	CYC	O2D-CGD	-2.20	1.23	1.30
12	T3	301	CYC	C1A-NA	-2.20	1.33	1.38
12	T1	301	CYC	C1A-NA	-2.20	1.33	1.38
12	A5	201	CYC	C2C-C1C	-2.20	1.50	1.52
12	L3	202	CYC	O2D-CGD	-2.20	1.23	1.30
12	aA	902	CYC	O2D-CGD	-2.20	1.23	1.30
12	HA	201	CYC	C1B-C2B	2.20	1.49	1.45
12	H9	201	CYC	C1B-C2B	2.20	1.49	1.45
12	O4	201	CYC	O2D-CGD	-2.20	1.23	1.30
12	O8	201	CYC	O2D-CGD	-2.20	1.23	1.30
12	BA	201	CYC	O2D-CGD	-2.20	1.23	1.30
12	B9	201	CYC	O2D-CGD	-2.20	1.23	1.30
12	T3	301	CYC	O2D-CGD	-2.20	1.23	1.30
12	T1	301	CYC	O2D-CGD	-2.20	1.23	1.30
12	Z	201	CYC	C1A-C2A	2.20	1.49	1.45
12	D2	201	CYC	OB-C4B	2.20	1.27	1.23
12	FA	301	CYC	O2D-CGD	-2.20	1.23	1.30
12	F9	301	CYC	O2D-CGD	-2.20	1.23	1.30
12	D6	201	CYC	O2D-CGD	-2.20	1.23	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	V3	202	CYC	C1B-C2B	2.20	1.49	1.45
12	V1	202	CYC	C1B-C2B	2.20	1.49	1.45
12	H2	201	CYC	O2D-CGD	-2.20	1.23	1.30
12	J3	202	CYC	C1A-NA	-2.20	1.33	1.38
12	aA	901	CYC	C1A-NA	-2.20	1.33	1.38
12	D3	201	CYC	C4C-NC	-2.20	1.33	1.37
12	V4	201	CYC	C1C-NC	-2.20	1.34	1.37
12	V8	201	CYC	C1C-NC	-2.20	1.34	1.37
12	G5	201	CYC	C2C-C1C	-2.20	1.50	1.52
12	LA	201	CYC	C1B-C2B	2.19	1.49	1.45
12	L9	201	CYC	C1B-C2B	2.19	1.49	1.45
12	M8	301	CYC	O2D-CGD	-2.19	1.23	1.30
12	C2	201	CYC	C1C-NC	-2.19	1.34	1.37
12	DA	201	CYC	OB-C4B	2.19	1.27	1.23
12	D9	201	CYC	OB-C4B	2.19	1.27	1.23
12	V3	202	CYC	C4C-NC	-2.19	1.33	1.37
12	V1	202	CYC	C4C-NC	-2.19	1.33	1.37
12	L2	201	CYC	O2D-CGD	-2.19	1.23	1.30
12	J4	201	CYC	O2D-CGD	-2.19	1.23	1.30
12	J8	201	CYC	O2D-CGD	-2.19	1.23	1.30
12	HA	202	CYC	C1A-NA	-2.19	1.33	1.38
12	F6	201	CYC	C4D-C3D	2.19	1.47	1.42
12	Y4	201	CYC	C4C-NC	-2.19	1.33	1.37
12	Y8	201	CYC	C4C-NC	-2.19	1.33	1.37
12	D3	201	CYC	C1B-C2B	2.19	1.49	1.45
12	D1	201	CYC	C1B-C2B	2.19	1.49	1.45
12	TA	301	CYC	OB-C4B	2.19	1.27	1.23
12	T9	301	CYC	OB-C4B	2.19	1.27	1.23
12	V4	201	CYC	C1A-C2A	2.19	1.49	1.45
12	V8	201	CYC	C1A-C2A	2.19	1.49	1.45
12	A	201	CYC	C1A-C2A	2.19	1.49	1.45
12	H7	201	CYC	C1A-C2A	2.19	1.49	1.45
12	D1	201	CYC	C4C-NC	-2.19	1.33	1.37
12	J6	201	CYC	C1B-C2B	2.19	1.49	1.45
12	F2	201	CYC	C4D-C3D	2.19	1.47	1.42
12	JA	202	CYC	O2D-CGD	-2.19	1.23	1.30
12	J9	202	CYC	O2D-CGD	-2.19	1.23	1.30
12	M5	201	CYC	C2C-C1C	-2.18	1.50	1.52
12	C7	201	CYC	C2C-C1C	-2.18	1.50	1.52
12	D6	202	CYC	C4C-NC	-2.18	1.33	1.37
12	H9	202	CYC	O2D-CGD	-2.18	1.23	1.30
12	R4	201	CYC	C1C-NC	-2.18	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	k5	1201	CYC	C4B-NB	-2.18	1.33	1.38
12	B1	201	CYC	C4C-NC	-2.18	1.33	1.37
12	YA	201	CYC	C1C-NC	-2.18	1.34	1.37
12	H9	202	CYC	C1B-C2B	2.18	1.49	1.45
12	HA	202	CYC	O2D-CGD	-2.18	1.23	1.30
12	D4	201	CYC	C4C-NC	-2.18	1.33	1.37
12	D8	201	CYC	C4C-NC	-2.18	1.33	1.37
12	N5	201	CYC	C4D-C3D	2.18	1.47	1.42
12	f7	201	CYC	C4D-C3D	2.18	1.47	1.42
12	R7	201	CYC	C1A-C2A	2.18	1.49	1.45
12	B7	201	CYC	C1A-C2A	2.18	1.49	1.45
12	M8	302	CYC	O2D-CGD	-2.18	1.23	1.30
12	P9	201	CYC	C1A-NA	-2.18	1.34	1.38
12	H4	202	CYC	C1B-C2B	2.18	1.49	1.45
12	H8	202	CYC	C1B-C2B	2.18	1.49	1.45
12	H6	201	CYC	O2D-CGD	-2.18	1.23	1.30
12	F3	201	CYC	C1A-NA	-2.18	1.34	1.38
12	F1	201	CYC	C1A-NA	-2.18	1.34	1.38
12	C3	201	CYC	C1C-NC	-2.18	1.34	1.37
12	C1	201	CYC	C1C-NC	-2.18	1.34	1.37
12	XA	201	CYC	O2D-CGD	-2.17	1.23	1.30
12	X9	201	CYC	O2D-CGD	-2.17	1.23	1.30
12	F3	201	CYC	OB-C4B	2.17	1.27	1.23
12	F1	201	CYC	OB-C4B	2.17	1.27	1.23
12	H6	201	CYC	C1A-NA	-2.17	1.34	1.38
12	SA	201	CYC	C1C-NC	-2.17	1.34	1.37
12	S9	201	CYC	C1C-NC	-2.17	1.34	1.37
12	D8	202	CYC	C4B-NB	-2.17	1.33	1.38
12	v7	201	CYC	C1A-C2A	2.17	1.49	1.45
12	S4	201	CYC	C4C-NC	-2.17	1.33	1.37
12	S8	201	CYC	C4C-NC	-2.17	1.33	1.37
12	Z4	301	CYC	OB-C4B	2.17	1.27	1.23
12	D2	201	CYC	C4B-NB	-2.17	1.33	1.38
12	M4	301	CYC	O2D-CGD	-2.17	1.23	1.30
12	W4	202	CYC	C4C-NC	-2.17	1.33	1.37
12	W8	202	CYC	C4C-NC	-2.17	1.33	1.37
12	J2	202	CYC	O2D-CGD	-2.17	1.23	1.30
12	J6	202	CYC	O2D-CGD	-2.17	1.23	1.30
12	U4	201	CYC	C4D-C3D	2.17	1.47	1.42
12	U8	201	CYC	C4D-C3D	2.17	1.47	1.42
12	DA	201	CYC	C4D-C3D	2.17	1.47	1.42
12	D9	201	CYC	C4D-C3D	2.17	1.47	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	j5	1201	CYC	C4C-NC	-2.17	1.33	1.37
12	IA	201	CYC	C1C-NC	-2.17	1.34	1.37
12	I2	201	CYC	C1C-NC	-2.17	1.34	1.37
12	I6	201	CYC	C1C-NC	-2.17	1.34	1.37
12	I9	201	CYC	C1C-NC	-2.17	1.34	1.37
12	D3	202	CYC	C1A-NA	-2.17	1.34	1.38
12	D1	202	CYC	C1A-NA	-2.17	1.34	1.38
12	C2	201	CYC	C1A-C2A	2.16	1.49	1.45
12	J2	201	CYC	C4C-NC	-2.16	1.33	1.37
12	F3	202	CYC	C1B-C2B	2.16	1.48	1.45
12	F1	202	CYC	C1B-C2B	2.16	1.48	1.45
12	K6	201	CYC	C1C-NC	-2.16	1.34	1.37
12	F6	201	CYC	C1A-NA	-2.16	1.34	1.38
12	R8	201	CYC	C1C-NC	-2.16	1.34	1.37
12	L4	201	CYC	C1B-C2B	2.16	1.48	1.45
12	L8	201	CYC	C1B-C2B	2.16	1.48	1.45
12	ZA	202	CYC	O2D-CGD	-2.16	1.23	1.30
12	S4	202	CYC	O2D-CGD	-2.16	1.23	1.30
12	Z9	202	CYC	O2D-CGD	-2.16	1.23	1.30
12	EA	201	CYC	C1C-NC	-2.16	1.34	1.37
12	E9	201	CYC	C1C-NC	-2.16	1.34	1.37
12	L6	202	CYC	C1B-C2B	2.16	1.48	1.45
12	TA	301	CYC	C1A-NA	-2.16	1.34	1.38
12	T9	301	CYC	C1A-NA	-2.16	1.34	1.38
12	k5	1201	CYC	C4C-NC	-2.16	1.33	1.37
12	F9	303	CYC	C4C-NC	-2.16	1.33	1.37
12	VA	201	CYC	C4B-NB	-2.16	1.33	1.38
12	ZA	201	CYC	C4C-NC	-2.16	1.33	1.37
12	Z9	201	CYC	C4C-NC	-2.16	1.33	1.37
12	J2	202	CYC	C4D-C3D	2.16	1.47	1.42
12	J6	202	CYC	C4D-C3D	2.16	1.47	1.42
12	TA	302	CYC	C1B-C2B	2.16	1.48	1.45
12	T9	302	CYC	C1B-C2B	2.16	1.48	1.45
12	TA	302	CYC	C1D-ND	-2.16	1.34	1.37
12	T9	302	CYC	C1D-ND	-2.16	1.34	1.37
12	PA	201	CYC	C1A-NA	-2.16	1.34	1.38
12	V9	201	CYC	C4B-NB	-2.16	1.33	1.38
12	V3	201	CYC	C1A-NA	-2.15	1.34	1.38
12	V1	201	CYC	C1A-NA	-2.15	1.34	1.38
12	f7	201	CYC	C1A-C2A	2.15	1.49	1.45
12	J2	201	CYC	C1D-ND	-2.15	1.34	1.37
12	J6	201	CYC	C1D-ND	-2.15	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	P1	202	CYC	C4C-NC	-2.15	1.33	1.37
12	P3	202	CYC	C4C-NC	-2.15	1.33	1.37
12	W8	202	CYC	C1D-ND	-2.15	1.34	1.37
12	Z5	201	CYC	C4D-C3D	2.15	1.47	1.42
12	J4	202	CYC	C1B-C2B	2.15	1.48	1.45
12	J8	202	CYC	C1B-C2B	2.15	1.48	1.45
12	d5	201	CYC	C4D-C3D	2.15	1.47	1.42
12	D4	202	CYC	C4B-NB	-2.15	1.33	1.38
12	F4	202	CYC	C4D-C3D	2.15	1.47	1.42
12	F8	202	CYC	C4D-C3D	2.15	1.47	1.42
12	VA	201	CYC	O2D-CGD	-2.15	1.23	1.30
12	V9	201	CYC	O2D-CGD	-2.15	1.23	1.30
12	U4	202	CYC	C1B-C2B	2.15	1.48	1.45
12	U8	202	CYC	C1B-C2B	2.15	1.48	1.45
12	S4	202	CYC	C4D-C3D	2.15	1.47	1.42
12	J4	201	CYC	C4D-C3D	2.15	1.47	1.42
12	J8	201	CYC	C4D-C3D	2.15	1.47	1.42
12	aA	902	CYC	C1A-NA	-2.15	1.34	1.38
12	D6	201	CYC	OB-C4B	2.15	1.27	1.23
12	H9	202	CYC	C1A-NA	-2.15	1.34	1.38
12	Z3	202	CYC	C1B-C2B	2.15	1.48	1.45
12	Z1	201	CYC	C1B-C2B	2.15	1.48	1.45
12	F9	302	CYC	C4C-NC	-2.15	1.33	1.37
12	B3	202	CYC	C1A-NA	-2.14	1.34	1.38
12	CA	201	CYC	C1C-NC	-2.14	1.34	1.37
12	C9	201	CYC	C1C-NC	-2.14	1.34	1.37
12	J3	202	CYC	O2D-CGD	-2.14	1.23	1.30
12	aA	901	CYC	O2D-CGD	-2.14	1.23	1.30
12	W4	202	CYC	C1D-ND	-2.14	1.34	1.37
12	H4	202	CYC	C4C-NC	-2.14	1.33	1.37
12	H8	202	CYC	C4C-NC	-2.14	1.33	1.37
12	DA	201	CYC	O2D-CGD	-2.14	1.23	1.30
12	D9	201	CYC	O2D-CGD	-2.14	1.23	1.30
12	O5	201	CYC	C2C-C1C	-2.14	1.50	1.52
12	BA	202	CYC	C1B-C2B	2.14	1.48	1.45
12	EA	201	CYC	C1A-C2A	2.14	1.49	1.45
12	SA	201	CYC	C1A-C2A	2.14	1.49	1.45
12	S9	201	CYC	C1A-C2A	2.14	1.49	1.45
12	F2	202	CYC	C1B-C2B	2.14	1.48	1.45
12	F3	201	CYC	C4D-C3D	2.14	1.47	1.42
12	D4	202	CYC	C4D-C3D	2.14	1.47	1.42
12	D8	202	CYC	C4D-C3D	2.14	1.47	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	F1	201	CYC	C4D-C3D	2.14	1.47	1.42
12	C6	201	CYC	C1C-NC	-2.14	1.34	1.37
12	E9	201	CYC	C1A-C2A	2.14	1.49	1.45
12	B9	202	CYC	C1B-C2B	2.14	1.48	1.45
12	H2	202	CYC	C4C-NC	-2.14	1.33	1.37
12	H6	202	CYC	C4C-NC	-2.14	1.33	1.37
12	N2	101	CYC	C4D-C3D	2.14	1.47	1.42
12	G3	201	CYC	C1A-C2A	2.14	1.49	1.45
12	G1	201	CYC	C1A-C2A	2.14	1.49	1.45
12	ZA	201	CYC	C1B-C2B	2.14	1.48	1.45
12	B4	201	CYC	C1B-C2B	2.14	1.48	1.45
12	B8	201	CYC	C1B-C2B	2.14	1.48	1.45
12	Z9	201	CYC	C1B-C2B	2.14	1.48	1.45
12	D6	201	CYC	C4B-NB	-2.14	1.33	1.38
12	T5	201	CYC	C4D-C3D	2.13	1.47	1.42
12	VA	201	CYC	C1A-NA	-2.13	1.34	1.38
12	H4	201	CYC	C1A-NA	-2.13	1.34	1.38
12	H8	201	CYC	C1A-NA	-2.13	1.34	1.38
12	V9	201	CYC	C1A-NA	-2.13	1.34	1.38
12	H8	201	CYC	C4B-NB	-2.13	1.33	1.38
12	B8	202	CYC	C1A-NA	-2.13	1.34	1.38
12	P1	201	CYC	C1A-NA	-2.13	1.34	1.38
12	P3	201	CYC	C1A-NA	-2.13	1.34	1.38
12	B6	201	CYC	C1B-C2B	2.13	1.48	1.45
12	B2	201	CYC	C1B-C2B	2.13	1.48	1.45
12	k5	1202	CYC	C1A-C2A	2.13	1.49	1.45
12	D2	201	CYC	C4D-C3D	2.13	1.47	1.42
12	F4	201	CYC	C1D-ND	-2.13	1.34	1.37
12	F8	201	CYC	C1D-ND	-2.13	1.34	1.37
12	I1	201	CYC	C1A-C2A	2.13	1.49	1.45
12	X3	201	CYC	C1A-NA	-2.13	1.34	1.38
12	X1	201	CYC	C1A-NA	-2.13	1.34	1.38
12	P1	202	CYC	C1B-C2B	2.13	1.48	1.45
12	P3	202	CYC	C1B-C2B	2.13	1.48	1.45
12	D6	201	CYC	C4D-C3D	2.13	1.47	1.42
12	AA	201	CYC	C1A-C2A	2.13	1.49	1.45
12	A9	201	CYC	C1A-C2A	2.13	1.49	1.45
12	q7	201	CYC	C2C-C1C	-2.13	1.50	1.52
12	JA	201	CYC	C1D-ND	-2.13	1.34	1.37
12	J9	201	CYC	C1D-ND	-2.13	1.34	1.37
12	DA	202	CYC	C4C-NC	-2.13	1.33	1.37
12	D9	202	CYC	C4C-NC	-2.13	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B4	201	CYC	C4C-NC	-2.12	1.33	1.37
12	B8	201	CYC	C4C-NC	-2.12	1.33	1.37
12	J2	202	CYC	C1A-NA	-2.12	1.34	1.38
12	L2	202	CYC	C1B-C2B	2.12	1.48	1.45
12	F6	202	CYC	C1B-C2B	2.12	1.48	1.45
12	U5	201	CYC	C2C-C1C	-2.12	1.50	1.52
12	J3	202	CYC	C4D-C3D	2.12	1.47	1.42
12	aA	901	CYC	C4D-C3D	2.12	1.47	1.42
12	D4	202	CYC	C1A-NA	-2.12	1.34	1.38
12	D8	202	CYC	C1A-NA	-2.12	1.34	1.38
12	J6	201	CYC	C4C-NC	-2.12	1.33	1.37
12	LA	201	CYC	C4C-NC	-2.12	1.33	1.37
12	L9	201	CYC	C4C-NC	-2.12	1.33	1.37
12	ZA	202	CYC	C1A-NA	-2.12	1.34	1.38
12	Z9	202	CYC	C1A-NA	-2.12	1.34	1.38
12	SA	201	CYC	C1B-NB	-2.12	1.34	1.37
12	S9	201	CYC	C1B-NB	-2.12	1.34	1.37
12	F3	202	CYC	C1D-ND	-2.12	1.34	1.37
12	F1	202	CYC	C1D-ND	-2.12	1.34	1.37
12	F4	202	CYC	C4B-NB	-2.11	1.33	1.38
12	F8	202	CYC	C4B-NB	-2.11	1.33	1.38
12	DA	202	CYC	C1D-ND	-2.11	1.34	1.37
12	D9	202	CYC	C1D-ND	-2.11	1.34	1.37
12	H3	201	CYC	C2C-C1C	-2.11	1.50	1.52
12	H1	202	CYC	C2C-C1C	-2.11	1.50	1.52
12	W4	201	CYC	C4D-C3D	2.11	1.47	1.42
12	W8	201	CYC	C4D-C3D	2.11	1.47	1.42
12	M8	302	CYC	C4D-C3D	2.11	1.47	1.42
12	H4	201	CYC	C4B-NB	-2.11	1.33	1.38
12	DA	201	CYC	C4B-NB	-2.11	1.33	1.38
12	aA	901	CYC	C4B-NB	-2.11	1.33	1.38
12	S4	202	CYC	C4B-NB	-2.11	1.33	1.38
12	H3	202	CYC	C1A-NA	-2.11	1.34	1.38
12	L3	202	CYC	C1A-NA	-2.11	1.34	1.38
12	UA	201	CYC	C1A-C2A	2.11	1.49	1.45
12	U9	201	CYC	C1A-C2A	2.11	1.49	1.45
12	M8	302	CYC	C1A-NA	-2.11	1.34	1.38
12	JA	201	CYC	C1B-C2B	2.11	1.48	1.45
12	J9	201	CYC	C1B-C2B	2.11	1.48	1.45
12	KA	201	CYC	C1A-C2A	2.11	1.49	1.45
12	K9	201	CYC	C1A-C2A	2.11	1.49	1.45
12	F7	201	CYC	C4D-ND	-2.11	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	k7	201	CYC	C2C-C1C	-2.11	1.50	1.52
12	C4	201	CYC	C1A-C2A	2.11	1.49	1.45
12	C8	201	CYC	C1A-C2A	2.11	1.49	1.45
12	W8	201	CYC	C4B-NB	-2.11	1.33	1.38
12	JA	202	CYC	C1A-NA	-2.10	1.34	1.38
12	J9	202	CYC	C1A-NA	-2.10	1.34	1.38
12	D9	201	CYC	C4B-NB	-2.10	1.33	1.38
12	H2	202	CYC	C1B-C2B	2.10	1.48	1.45
12	B1	202	CYC	C1A-NA	-2.10	1.34	1.38
12	J6	202	CYC	C1A-NA	-2.10	1.34	1.38
12	V3	201	CYC	C4B-NB	-2.10	1.33	1.38
12	V1	201	CYC	C4B-NB	-2.10	1.33	1.38
12	M8	302	CYC	C4B-NB	-2.10	1.33	1.38
12	BA	201	CYC	C1A-NA	-2.10	1.34	1.38
12	B9	201	CYC	C1A-NA	-2.10	1.34	1.38
12	HA	202	CYC	C4D-C3D	2.10	1.47	1.42
12	U3	201	CYC	C1A-C2A	2.10	1.49	1.45
12	U1	201	CYC	C1A-C2A	2.10	1.49	1.45
12	X3	201	CYC	C4B-NB	-2.10	1.33	1.38
12	X1	201	CYC	C4B-NB	-2.10	1.33	1.38
12	X3	202	CYC	C1B-C2B	2.10	1.48	1.45
12	X1	202	CYC	C1B-C2B	2.10	1.48	1.45
12	B4	202	CYC	C1A-NA	-2.10	1.34	1.38
12	Z8	301	CYC	C1A-NA	-2.10	1.34	1.38
12	Q8	201	CYC	C1B-C2B	2.10	1.48	1.45
12	S4	202	CYC	C1A-NA	-2.10	1.34	1.38
12	L2	202	CYC	C4C-NC	-2.10	1.33	1.37
12	H9	202	CYC	C4D-C3D	2.10	1.47	1.42
12	I3	201	CYC	C1A-C2A	2.09	1.49	1.45
12	X8	201	CYC	C1C-NC	-2.09	1.35	1.37
12	H2	201	CYC	C1A-NA	-2.09	1.34	1.38
12	J6	202	CYC	C4B-NB	-2.09	1.33	1.38
12	D6	201	CYC	C1A-NA	-2.09	1.34	1.38
12	D2	201	CYC	C1A-NA	-2.09	1.34	1.38
12	XA	201	CYC	C1A-NA	-2.09	1.34	1.38
12	X9	201	CYC	C1A-NA	-2.09	1.34	1.38
12	J8	201	CYC	C1A-NA	-2.09	1.34	1.38
12	VA	202	CYC	C1B-C2B	2.09	1.48	1.45
12	F4	201	CYC	C1B-C2B	2.09	1.48	1.45
12	F8	201	CYC	C1B-C2B	2.09	1.48	1.45
12	R1	201	CYC	C4D-C3D	2.09	1.47	1.42
12	R3	201	CYC	C4D-C3D	2.09	1.47	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	T1	301	CYC	C4D-C3D	2.09	1.47	1.42
12	V9	202	CYC	C1B-C2B	2.09	1.48	1.45
12	L6	202	CYC	C4C-NC	-2.09	1.33	1.37
12	Z4	301	CYC	C1A-NA	-2.09	1.34	1.38
12	H1	201	CYC	C1A-NA	-2.09	1.34	1.38
12	J4	201	CYC	C4B-NB	-2.09	1.33	1.38
12	J8	201	CYC	C4B-NB	-2.09	1.33	1.38
12	GA	201	CYC	C1A-C2A	2.09	1.49	1.45
12	G9	201	CYC	C1A-C2A	2.09	1.49	1.45
12	J3	201	CYC	C1B-C2B	2.09	1.48	1.45
12	W4	202	CYC	C1B-C2B	2.09	1.48	1.45
12	W8	202	CYC	C1B-C2B	2.09	1.48	1.45
12	R1	202	CYC	C1B-C2B	2.09	1.48	1.45
12	R3	202	CYC	C1B-C2B	2.09	1.48	1.45
12	Q9	201	CYC	C1C-NC	-2.09	1.35	1.37
12	TA	301	CYC	C4D-C3D	2.09	1.47	1.42
12	T9	301	CYC	C4D-C3D	2.09	1.47	1.42
12	Z8	301	CYC	OB-C4B	2.09	1.27	1.23
12	C6	201	CYC	C1A-C2A	2.09	1.49	1.45
12	J1	201	CYC	C1B-C2B	2.08	1.48	1.45
12	A4	201	CYC	C1A-C2A	2.08	1.49	1.45
12	A8	201	CYC	C1A-C2A	2.08	1.49	1.45
12	DA	201	CYC	C1A-NA	-2.08	1.34	1.38
12	D9	201	CYC	C1A-NA	-2.08	1.34	1.38
12	QA	201	CYC	C1C-NC	-2.08	1.35	1.37
12	T3	301	CYC	C4D-C3D	2.08	1.47	1.42
12	XA	201	CYC	C4D-C3D	2.08	1.47	1.42
12	X9	201	CYC	C4D-C3D	2.08	1.47	1.42
12	F6	201	CYC	C4B-NB	-2.08	1.33	1.38
12	J4	201	CYC	C1A-NA	-2.08	1.34	1.38
12	X5	201	CYC	C4D-ND	-2.08	1.34	1.37
12	H9	202	CYC	C4B-NB	-2.08	1.33	1.38
12	O4	202	CYC	C1B-C2B	2.08	1.48	1.45
12	Q4	201	CYC	C1B-C2B	2.08	1.48	1.45
12	O8	202	CYC	C1B-C2B	2.08	1.48	1.45
12	P4	201	CYC	C1A-C2A	2.08	1.49	1.45
12	P8	201	CYC	C1A-C2A	2.08	1.49	1.45
12	W4	201	CYC	C4B-NB	-2.08	1.33	1.38
12	YA	201	CYC	C1A-C2A	2.08	1.49	1.45
12	Y9	201	CYC	C1A-C2A	2.08	1.49	1.45
12	B3	201	CYC	C1B-C2B	2.08	1.48	1.45
12	B1	201	CYC	C1B-C2B	2.08	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	J3	202	CYC	C4B-NB	-2.08	1.33	1.38
12	D4	201	CYC	C1B-C2B	2.08	1.48	1.45
12	D8	201	CYC	C1B-C2B	2.08	1.48	1.45
12	N2	101	CYC	C1A-NA	-2.08	1.34	1.38
12	N6	101	CYC	C1A-NA	-2.08	1.34	1.38
12	c5	201	CYC	C4C-NC	-2.07	1.33	1.37
12	W3	201	CYC	C1A-C2A	2.07	1.49	1.45
12	W1	201	CYC	C1A-C2A	2.07	1.49	1.45
12	I4	201	CYC	C1A-C2A	2.07	1.49	1.45
12	I8	201	CYC	C1A-C2A	2.07	1.49	1.45
12	E6	201	CYC	O2D-CGD	-2.07	1.24	1.30
12	Z4	301	CYC	C4D-C3D	2.07	1.47	1.42
12	F9	301	CYC	C1A-NA	-2.07	1.34	1.38
12	J3	201	CYC	C1D-ND	-2.07	1.34	1.37
12	J1	201	CYC	C1D-ND	-2.07	1.34	1.37
12	Z8	301	CYC	C4D-C3D	2.07	1.47	1.42
12	k5	1204	CYC	C4D-ND	-2.07	1.34	1.37
12	FA	301	CYC	C1A-NA	-2.07	1.34	1.38
12	d7	201	CYC	C4D-ND	-2.07	1.34	1.37
12	T7	201	CYC	C4D-ND	-2.07	1.34	1.37
12	PA	201	CYC	C4D-C3D	2.07	1.47	1.42
12	P9	201	CYC	C4D-C3D	2.07	1.47	1.42
12	O4	202	CYC	C4C-NC	-2.07	1.33	1.37
12	O8	202	CYC	C4C-NC	-2.07	1.33	1.37
12	R7	201	CYC	C4D-ND	-2.07	1.34	1.37
12	E2	201	CYC	O2D-CGD	-2.06	1.24	1.30
12	L2	202	CYC	C1D-ND	-2.06	1.34	1.37
12	L6	202	CYC	C1D-ND	-2.06	1.34	1.37
12	X7	201	CYC	C4D-ND	-2.06	1.34	1.37
12	S1	201	CYC	C1A-C2A	2.06	1.49	1.45
12	d5	201	CYC	C4D-ND	-2.06	1.34	1.37
12	F2	202	CYC	C1D-ND	-2.06	1.34	1.37
12	Z3	202	CYC	C1D-ND	-2.06	1.34	1.37
12	Z1	201	CYC	C1D-ND	-2.06	1.34	1.37
12	Q9	201	CYC	C1A-C2A	2.06	1.49	1.45
12	X4	201	CYC	C1C-NC	-2.06	1.35	1.37
12	J2	202	CYC	C4B-NB	-2.06	1.33	1.38
12	E2	201	CYC	C1A-C2A	2.06	1.48	1.45
12	L7	201	CYC	C4D-ND	-2.06	1.34	1.37
12	H2	201	CYC	C4D-C3D	2.06	1.47	1.42
12	H6	201	CYC	C4D-C3D	2.06	1.47	1.42
12	FA	301	CYC	C4B-NB	-2.06	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	F9	301	CYC	C4B-NB	-2.06	1.33	1.38
12	A4	201	CYC	O2D-CGD	-2.06	1.24	1.30
12	A8	201	CYC	O2D-CGD	-2.06	1.24	1.30
12	E4	201	CYC	O2D-CGD	-2.06	1.24	1.30
12	M4	301	CYC	C4B-NB	-2.06	1.33	1.38
12	G7	201	CYC	C4C-NC	-2.05	1.33	1.37
12	H6	202	CYC	C1B-C2B	2.05	1.48	1.45
12	T3	301	CYC	C4B-NB	-2.05	1.33	1.38
12	T1	301	CYC	C4B-NB	-2.05	1.33	1.38
12	K4	201	CYC	C1A-C2A	2.05	1.48	1.45
12	I7	201	CYC	C4C-NC	-2.05	1.33	1.37
12	T3	302	CYC	C1D-ND	-2.05	1.34	1.37
12	T1	302	CYC	C1D-ND	-2.05	1.34	1.37
12	E8	201	CYC	O2D-CGD	-2.05	1.24	1.30
12	QA	201	CYC	C1A-C2A	2.05	1.48	1.45
12	ZA	202	CYC	C4D-C3D	2.05	1.47	1.42
12	Z9	202	CYC	C4D-C3D	2.05	1.47	1.42
12	R1	201	CYC	C4B-NB	-2.05	1.33	1.38
12	R3	201	CYC	C4B-NB	-2.05	1.33	1.38
12	E4	201	CYC	C1A-C2A	2.05	1.48	1.45
12	E8	201	CYC	C1A-C2A	2.05	1.48	1.45
12	N2	101	CYC	C4B-NB	-2.05	1.33	1.38
12	Z4	301	CYC	C4B-NB	-2.05	1.33	1.38
12	N6	101	CYC	C4B-NB	-2.05	1.33	1.38
12	G2	201	CYC	O2D-CGD	-2.05	1.24	1.30
12	Y4	201	CYC	C1B-C2B	2.05	1.48	1.45
12	Y8	201	CYC	C1B-C2B	2.05	1.48	1.45
12	FA	301	CYC	C4D-C3D	2.05	1.47	1.42
12	F9	301	CYC	C4D-C3D	2.05	1.47	1.42
12	C7	201	CYC	C4C-NC	-2.05	1.33	1.37
12	N6	101	CYC	C4D-C3D	2.05	1.47	1.42
12	O4	201	CYC	C4D-C3D	2.04	1.47	1.42
12	O8	201	CYC	C4D-C3D	2.04	1.47	1.42
12	L3	202	CYC	C4B-NB	-2.04	1.33	1.38
12	aA	902	CYC	C4B-NB	-2.04	1.33	1.38
12	I2	201	CYC	C1A-C2A	2.04	1.48	1.45
12	WA	201	CYC	O2D-CGD	-2.04	1.24	1.30
12	W9	201	CYC	O2D-CGD	-2.04	1.24	1.30
12	L3	201	CYC	C1B-C2B	2.04	1.48	1.45
12	L1	201	CYC	C1B-C2B	2.04	1.48	1.45
12	H2	201	CYC	C4B-NB	-2.04	1.33	1.38
12	B1	202	CYC	C4B-NB	-2.04	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	TA	301	CYC	C4B-NB	-2.04	1.33	1.38
12	T9	301	CYC	C4B-NB	-2.04	1.33	1.38
12	JA	202	CYC	C4D-C3D	2.04	1.47	1.42
12	K8	201	CYC	C1A-C2A	2.04	1.48	1.45
12	F2	201	CYC	C4B-NB	-2.04	1.33	1.38
12	G4	201	CYC	C1A-C2A	2.04	1.48	1.45
12	G8	201	CYC	C1A-C2A	2.04	1.48	1.45
12	X5	201	CYC	C4A-C3A	2.04	1.50	1.45
12	A6	201	CYC	C1A-C2A	2.04	1.48	1.45
12	A2	201	CYC	C1A-C2A	2.04	1.48	1.45
12	L2	201	CYC	C4B-NB	-2.04	1.33	1.38
12	O4	201	CYC	C4B-NB	-2.04	1.33	1.38
12	L6	201	CYC	C4B-NB	-2.04	1.33	1.38
12	O8	201	CYC	C4B-NB	-2.04	1.33	1.38
12	B1	202	CYC	C4D-C3D	2.04	1.47	1.42
12	I3	201	CYC	O2D-CGD	-2.04	1.24	1.30
12	W3	201	CYC	O2D-CGD	-2.04	1.24	1.30
12	I1	201	CYC	O2D-CGD	-2.04	1.24	1.30
12	W1	201	CYC	O2D-CGD	-2.04	1.24	1.30
12	BA	201	CYC	C4B-NB	-2.04	1.33	1.38
12	B9	201	CYC	C4B-NB	-2.04	1.33	1.38
12	VA	201	CYC	C4D-C3D	2.04	1.47	1.42
12	V9	201	CYC	C4D-C3D	2.04	1.47	1.42
12	L3	202	CYC	C4D-C3D	2.04	1.47	1.42
12	aA	902	CYC	C4D-C3D	2.04	1.47	1.42
12	E3	201	CYC	C1A-C2A	2.03	1.48	1.45
12	E1	201	CYC	C1A-C2A	2.03	1.48	1.45
12	B3	202	CYC	C4B-NB	-2.03	1.33	1.38
12	F4	202	CYC	C1B-NB	-2.03	1.34	1.37
12	F8	202	CYC	C1B-NB	-2.03	1.34	1.37
12	F4	202	CYC	C1A-NA	-2.03	1.34	1.38
12	F8	202	CYC	C1A-NA	-2.03	1.34	1.38
12	I6	201	CYC	C1A-C2A	2.03	1.48	1.45
12	V3	201	CYC	C4D-C3D	2.03	1.47	1.42
12	V1	201	CYC	C4D-C3D	2.03	1.47	1.42
12	M8	301	CYC	C4D-C3D	2.03	1.47	1.42
12	Z5	201	CYC	C4D-ND	-2.03	1.34	1.37
12	OA	201	CYC	C1A-C2A	2.03	1.48	1.45
12	O9	201	CYC	C1A-C2A	2.03	1.48	1.45
12	I5	201	CYC	C4C-NC	-2.03	1.33	1.37
12	Q1	201	CYC	C1A-C2A	2.03	1.48	1.45
12	Q3	201	CYC	C1A-C2A	2.03	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	F6	202	CYC	C1D-ND	-2.03	1.34	1.37
12	L2	201	CYC	C4D-C3D	2.03	1.47	1.42
12	U4	201	CYC	C1A-NA	-2.03	1.34	1.38
12	U8	201	CYC	C1A-NA	-2.03	1.34	1.38
12	a9	901	CYC	C4D-C3D	2.03	1.47	1.42
12	Q9	201	CYC	O2D-CGD	-2.03	1.24	1.30
12	j7	201	CYC	C4D-ND	-2.03	1.34	1.37
12	EA	201	CYC	O2D-CGD	-2.03	1.24	1.30
12	E9	201	CYC	O2D-CGD	-2.03	1.24	1.30
12	J9	202	CYC	C4D-C3D	2.03	1.47	1.42
12	SA	201	CYC	O2D-CGD	-2.03	1.24	1.30
12	Q1	201	CYC	O2D-CGD	-2.03	1.24	1.30
12	Q3	201	CYC	O2D-CGD	-2.03	1.24	1.30
12	S9	201	CYC	O2D-CGD	-2.03	1.24	1.30
12	U4	201	CYC	C4B-NB	-2.03	1.33	1.38
12	U8	201	CYC	C4B-NB	-2.03	1.33	1.38
12	S3	201	CYC	C1A-C2A	2.03	1.48	1.45
12	LA	202	CYC	C4B-NB	-2.03	1.33	1.38
12	h7	201	CYC	C4D-ND	-2.02	1.34	1.37
12	E3	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	E1	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	LA	202	CYC	C4D-C3D	2.02	1.47	1.42
12	L9	202	CYC	C4D-C3D	2.02	1.47	1.42
12	A1	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	A3	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	O1	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	O3	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	BA	202	CYC	C1D-ND	-2.02	1.34	1.37
12	B9	202	CYC	C1D-ND	-2.02	1.34	1.37
12	P1	201	CYC	C4B-NB	-2.02	1.33	1.38
12	P3	201	CYC	C4B-NB	-2.02	1.33	1.38
12	F9	302	CYC	C2C-C1C	-2.02	1.50	1.52
12	B3	202	CYC	C4D-C3D	2.02	1.47	1.42
12	M8	301	CYC	C4B-NB	-2.02	1.33	1.38
12	T4	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	T8	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	L9	202	CYC	C4B-NB	-2.02	1.33	1.38
12	QA	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	R5	201	CYC	C4A-C3A	2.02	1.50	1.45
12	G4	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	G8	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	L5	201	CYC	C4D-ND	-2.02	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	B2	201	CYC	C1D-ND	-2.02	1.34	1.37
12	HA	202	CYC	C4B-NB	-2.02	1.33	1.38
12	RA	201	CYC	C4B-NB	-2.02	1.33	1.38
12	D1	202	CYC	C4B-NB	-2.02	1.33	1.38
12	R9	201	CYC	C4B-NB	-2.02	1.33	1.38
12	j5	1201	CYC	C4A-C3A	2.02	1.50	1.45
12	M4	301	CYC	C4D-C3D	2.02	1.47	1.42
12	R5	201	CYC	C4D-ND	-2.02	1.34	1.37
12	B8	202	CYC	C4D-C3D	2.02	1.47	1.42
12	b7	201	CYC	C4A-C3A	2.02	1.50	1.45
12	UA	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	U9	201	CYC	O2D-CGD	-2.02	1.24	1.30
12	XA	201	CYC	C4B-NB	-2.01	1.33	1.38
12	X9	201	CYC	C4B-NB	-2.01	1.33	1.38
12	B7	201	CYC	C4D-ND	-2.01	1.34	1.37
12	H7	201	CYC	C4D-ND	-2.01	1.34	1.37
12	I6	201	CYC	O2D-CGD	-2.01	1.24	1.30
12	h7	201	CYC	C4A-C3A	2.01	1.50	1.45
12	G6	201	CYC	O2D-CGD	-2.01	1.24	1.30
12	b7	201	CYC	C4D-ND	-2.01	1.34	1.37
12	C1	201	CYC	O2D-CGD	-2.01	1.24	1.30
12	H5	201	CYC	C4D-ND	-2.01	1.34	1.37
12	B6	201	CYC	C1D-ND	-2.01	1.34	1.37
12	L4	202	CYC	C4D-C3D	2.01	1.47	1.42
12	H6	201	CYC	C4B-NB	-2.01	1.33	1.38
12	VA	202	CYC	C1D-ND	-2.01	1.34	1.37
12	V9	202	CYC	C1D-ND	-2.01	1.34	1.37
12	Y3	201	CYC	O2D-CGD	-2.01	1.24	1.30
12	Y1	201	CYC	O2D-CGD	-2.01	1.24	1.30
12	D4	201	CYC	C1D-ND	-2.01	1.34	1.37
12	D8	201	CYC	C1D-ND	-2.01	1.34	1.37
12	k5	1201	CYC	C4A-C3A	2.01	1.50	1.45
12	KA	201	CYC	O2D-CGD	-2.01	1.24	1.30
12	U3	201	CYC	O2D-CGD	-2.01	1.24	1.30
12	K9	201	CYC	O2D-CGD	-2.01	1.24	1.30
12	U1	201	CYC	O2D-CGD	-2.01	1.24	1.30
12	I2	201	CYC	O2D-CGD	-2.01	1.24	1.30
12	D3	202	CYC	C4B-NB	-2.01	1.33	1.38
12	f7	201	CYC	C4A-C3A	2.01	1.50	1.45
12	T5	201	CYC	C4D-ND	-2.00	1.34	1.37
12	O1	201	CYC	C1A-C2A	2.00	1.48	1.45
12	O3	201	CYC	C1A-C2A	2.00	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	P4	201	CYC	O2D-CGD	-2.00	1.24	1.30
12	P8	201	CYC	O2D-CGD	-2.00	1.24	1.30
12	ZA	201	CYC	C1D-ND	-2.00	1.34	1.37
12	C3	201	CYC	O2D-CGD	-2.00	1.24	1.30
12	B5	201	CYC	C4D-ND	-2.00	1.34	1.37
12	I6	201	CYC	O2A-CGA	-2.00	1.24	1.30
12	A7	201	CYC	C4C-NC	-2.00	1.33	1.37
12	Z3	201	CYC	C4B-NB	-2.00	1.33	1.38
12	Z1	202	CYC	C4B-NB	-2.00	1.33	1.38
12	k5	1202	CYC	C4D-ND	-2.00	1.34	1.37
12	N5	201	CYC	C4D-ND	-2.00	1.34	1.37
12	GA	201	CYC	O2D-CGD	-2.00	1.24	1.30
12	G9	201	CYC	O2D-CGD	-2.00	1.24	1.30
12	i7	201	CYC	C4C-NC	-2.00	1.33	1.37
12	f5	201	CYC	C4D-ND	-2.00	1.34	1.37

All (8757) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	i7	201	CYC	C3B-C4B-NB	12.38	116.64	106.77
12	g7	201	CYC	C3B-C4B-NB	12.33	116.60	106.77
12	K5	201	CYC	C3B-C4B-NB	12.32	116.59	106.77
12	Q7	201	CYC	C3B-C4B-NB	12.31	116.59	106.77
12	a7	201	CYC	C3B-C4B-NB	12.28	116.56	106.77
12	Y5	201	CYC	C3B-C4B-NB	12.28	116.56	106.77
12	E5	201	CYC	C3B-C4B-NB	12.27	116.55	106.77
12	c7	201	CYC	C3B-C4B-NB	12.27	116.55	106.77
12	G5	201	CYC	C3B-C4B-NB	12.26	116.55	106.77
12	K7	201	CYC	C3B-C4B-NB	12.24	116.53	106.77
12	E7	201	CYC	C3B-C4B-NB	12.24	116.53	106.77
12	m7	201	CYC	C3B-C4B-NB	12.24	116.53	106.77
12	a5	201	CYC	C3B-C4B-NB	12.21	116.50	106.77
12	e5	201	CYC	C3B-C4B-NB	12.21	116.50	106.77
12	c5	201	CYC	C3B-C4B-NB	12.21	116.50	106.77
12	U7	201	CYC	C3B-C4B-NB	12.21	116.50	106.77
12	G7	201	CYC	C3B-C4B-NB	12.21	116.50	106.77
12	W7	201	CYC	C3B-C4B-NB	12.21	116.50	106.77
12	A7	201	CYC	C3B-C4B-NB	12.19	116.49	106.77
12	A5	201	CYC	C3B-C4B-NB	12.19	116.49	106.77
12	u7	201	CYC	C3B-C4B-NB	12.19	116.49	106.77
12	o7	201	CYC	C3B-C4B-NB	12.19	116.48	106.77
12	O5	201	CYC	C3B-C4B-NB	12.18	116.48	106.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	U5	201	CYC	C3B-C4B-NB	12.18	116.48	106.77
12	C7	201	CYC	C3B-C4B-NB	12.17	116.47	106.77
12	I7	201	CYC	C3B-C4B-NB	12.16	116.47	106.77
12	Q5	201	CYC	C3B-C4B-NB	12.15	116.46	106.77
12	O7	201	CYC	C3B-C4B-NB	12.15	116.46	106.77
12	W5	201	CYC	C3B-C4B-NB	12.14	116.45	106.77
12	s7	201	CYC	C3B-C4B-NB	12.13	116.44	106.77
12	M7	201	CYC	C3B-C4B-NB	12.12	116.43	106.77
12	C5	201	CYC	C3B-C4B-NB	12.10	116.42	106.77
12	I5	201	CYC	C3B-C4B-NB	12.07	116.39	106.77
12	q7	201	CYC	C3B-C4B-NB	12.04	116.37	106.77
12	S5	201	CYC	C3B-C4B-NB	12.03	116.36	106.77
12	Y7	201	CYC	C3B-C4B-NB	12.01	116.35	106.77
12	k7	201	CYC	C3B-C4B-NB	12.00	116.34	106.77
12	M5	201	CYC	C3B-C4B-NB	11.98	116.32	106.77
12	e7	201	CYC	C3B-C4B-NB	11.98	116.32	106.77
12	S7	201	CYC	C3B-C4B-NB	11.96	116.31	106.77
12	S4	202	CYC	C3B-C4B-NB	11.68	116.08	106.77
12	VA	201	CYC	C3B-C4B-NB	11.66	116.07	106.77
12	V9	201	CYC	C3B-C4B-NB	11.62	116.04	106.77
12	J2	202	CYC	C3B-C4B-NB	11.61	116.03	106.77
12	LA	202	CYC	C3B-C4B-NB	11.61	116.03	106.77
12	PA	201	CYC	C3B-C4B-NB	11.61	116.03	106.77
12	P9	201	CYC	C3B-C4B-NB	11.61	116.03	106.77
12	ZA	202	CYC	C3B-C4B-NB	11.60	116.02	106.77
12	Z9	202	CYC	C3B-C4B-NB	11.60	116.02	106.77
12	M8	302	CYC	C3B-C4B-NB	11.58	116.01	106.77
12	J6	202	CYC	C3B-C4B-NB	11.58	116.00	106.77
12	N2	101	CYC	C3B-C4B-NB	11.58	116.00	106.77
12	L9	202	CYC	C3B-C4B-NB	11.58	116.00	106.77
12	XA	201	CYC	C3B-C4B-NB	11.57	115.99	106.77
12	X9	201	CYC	C3B-C4B-NB	11.57	115.99	106.77
12	N6	101	CYC	C3B-C4B-NB	11.56	115.99	106.77
12	J4	201	CYC	C3B-C4B-NB	11.56	115.98	106.77
12	J8	201	CYC	C3B-C4B-NB	11.56	115.98	106.77
12	X3	201	CYC	C3B-C4B-NB	11.55	115.98	106.77
12	X1	201	CYC	C3B-C4B-NB	11.55	115.98	106.77
12	U4	201	CYC	C3B-C4B-NB	11.55	115.98	106.77
12	U8	201	CYC	C3B-C4B-NB	11.55	115.98	106.77
12	J3	202	CYC	C3B-C4B-NB	11.53	115.97	106.77
12	L2	201	CYC	C3B-C4B-NB	11.53	115.97	106.77
12	aA	901	CYC	C3B-C4B-NB	11.53	115.97	106.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	L6	201	CYC	C3B-C4B-NB	11.53	115.96	106.77
12	DA	201	CYC	C3B-C4B-NB	11.51	115.94	106.77
12	JA	202	CYC	C3B-C4B-NB	11.51	115.94	106.77
12	J9	202	CYC	C3B-C4B-NB	11.51	115.94	106.77
12	D1	202	CYC	C3B-C4B-NB	11.50	115.94	106.77
12	F6	201	CYC	C3B-C4B-NB	11.49	115.93	106.77
12	V3	201	CYC	C3B-C4B-NB	11.49	115.93	106.77
12	V1	201	CYC	C3B-C4B-NB	11.49	115.93	106.77
12	H1	201	CYC	C3B-C4B-NB	11.47	115.91	106.77
12	Z3	201	CYC	C3B-C4B-NB	11.47	115.91	106.77
12	D9	201	CYC	C3B-C4B-NB	11.46	115.91	106.77
12	T3	301	CYC	C3B-C4B-NB	11.46	115.91	106.77
12	T1	301	CYC	C3B-C4B-NB	11.46	115.91	106.77
12	F4	202	CYC	C3B-C4B-NB	11.45	115.90	106.77
12	F8	202	CYC	C3B-C4B-NB	11.45	115.90	106.77
12	H3	202	CYC	C3B-C4B-NB	11.45	115.90	106.77
12	B4	202	CYC	C3B-C4B-NB	11.45	115.90	106.77
12	Z1	202	CYC	C3B-C4B-NB	11.44	115.89	106.77
12	B3	202	CYC	C3B-C4B-NB	11.43	115.89	106.77
12	F2	201	CYC	C3B-C4B-NB	11.43	115.89	106.77
12	D3	202	CYC	C3B-C4B-NB	11.43	115.88	106.77
12	H6	201	CYC	C3B-C4B-NB	11.43	115.88	106.77
12	B1	202	CYC	C3B-C4B-NB	11.43	115.88	106.77
12	R1	201	CYC	C3B-C4B-NB	11.42	115.88	106.77
12	R3	201	CYC	C3B-C4B-NB	11.42	115.88	106.77
12	BA	201	CYC	C3B-C4B-NB	11.41	115.86	106.77
12	B9	201	CYC	C3B-C4B-NB	11.41	115.86	106.77
12	O4	201	CYC	C3B-C4B-NB	11.40	115.86	106.77
12	O8	201	CYC	C3B-C4B-NB	11.40	115.86	106.77
12	F3	201	CYC	C3B-C4B-NB	11.39	115.85	106.77
12	F1	201	CYC	C3B-C4B-NB	11.39	115.85	106.77
12	H8	201	CYC	C3B-C4B-NB	11.39	115.85	106.77
12	L4	202	CYC	C3B-C4B-NB	11.38	115.84	106.77
12	L3	202	CYC	C3B-C4B-NB	11.37	115.84	106.77
12	aA	902	CYC	C3B-C4B-NB	11.37	115.84	106.77
12	J5	201	CYC	C3B-C4B-NB	11.37	115.83	106.77
12	L5	201	CYC	C3B-C4B-NB	11.37	115.83	106.77
12	H2	201	CYC	C3B-C4B-NB	11.36	115.83	106.77
12	D8	202	CYC	C3B-C4B-NB	11.36	115.83	106.77
12	X5	201	CYC	C3B-C4B-NB	11.36	115.83	106.77
12	HA	202	CYC	C3B-C4B-NB	11.35	115.82	106.77
12	a9	901	CYC	C3B-C4B-NB	11.35	115.82	106.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	P1	201	CYC	C3B-C4B-NB	11.35	115.82	106.77
12	P3	201	CYC	C3B-C4B-NB	11.35	115.82	106.77
12	H4	201	CYC	C3B-C4B-NB	11.35	115.82	106.77
12	B8	202	CYC	C3B-C4B-NB	11.35	115.82	106.77
12	FA	301	CYC	C3B-C4B-NB	11.35	115.82	106.77
12	F9	301	CYC	C3B-C4B-NB	11.35	115.82	106.77
12	R5	201	CYC	C3B-C4B-NB	11.34	115.81	106.77
12	D2	201	CYC	C3B-C4B-NB	11.34	115.81	106.77
12	D4	202	CYC	C3B-C4B-NB	11.33	115.80	106.77
12	F5	201	CYC	C3B-C4B-NB	11.33	115.80	106.77
12	J7	201	CYC	C3B-C4B-NB	11.33	115.80	106.77
12	p7	201	CYC	C3B-C4B-NB	11.33	115.80	106.77
12	H9	202	CYC	C3B-C4B-NB	11.33	115.80	106.77
12	W8	201	CYC	C3B-C4B-NB	11.32	115.80	106.77
12	d7	201	CYC	C3B-C4B-NB	11.32	115.79	106.77
12	TA	301	CYC	C3B-C4B-NB	11.31	115.79	106.77
12	T9	301	CYC	C3B-C4B-NB	11.31	115.79	106.77
12	Z4	301	CYC	C3B-C4B-NB	11.31	115.78	106.77
12	M4	301	CYC	C3B-C4B-NB	11.30	115.78	106.77
12	F7	201	CYC	C3B-C4B-NB	11.29	115.77	106.77
12	Z8	301	CYC	C3B-C4B-NB	11.29	115.77	106.77
12	Y4	201	CYC	C3B-C4B-NB	11.29	115.77	106.77
12	Y8	201	CYC	C3B-C4B-NB	11.29	115.77	106.77
12	L7	201	CYC	C3B-C4B-NB	11.29	115.77	106.77
12	D7	201	CYC	C3B-C4B-NB	11.28	115.76	106.77
12	j7	201	CYC	C3B-C4B-NB	11.28	115.76	106.77
12	X7	201	CYC	C3B-C4B-NB	11.27	115.75	106.77
12	Z	201	CYC	C3B-C4B-NB	11.27	115.75	106.77
12	W4	201	CYC	C3B-C4B-NB	11.27	115.75	106.77
12	T5	201	CYC	C3B-C4B-NB	11.27	115.75	106.77
12	N5	201	CYC	C3B-C4B-NB	11.26	115.75	106.77
12	D6	201	CYC	C3B-C4B-NB	11.26	115.75	106.77
12	RA	201	CYC	C3B-C4B-NB	11.26	115.75	106.77
12	R9	201	CYC	C3B-C4B-NB	11.26	115.75	106.77
12	D5	201	CYC	C3B-C4B-NB	11.26	115.75	106.77
12	v7	201	CYC	C3B-C4B-NB	11.26	115.75	106.77
12	d5	201	CYC	C3B-C4B-NB	11.25	115.74	106.77
12	B4	201	CYC	C3B-C4B-NB	11.25	115.74	106.77
12	B8	201	CYC	C3B-C4B-NB	11.25	115.74	106.77
12	V7	201	CYC	C3B-C4B-NB	11.24	115.73	106.77
12	T7	201	CYC	C3B-C4B-NB	11.24	115.73	106.77
12	R7	201	CYC	C3B-C4B-NB	11.24	115.73	106.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	f5	201	CYC	C3B-C4B-NB	11.24	115.73	106.77
12	A	201	CYC	C3B-C4B-NB	11.24	115.73	106.77
12	b7	201	CYC	C3B-C4B-NB	11.23	115.73	106.77
12	b5	201	CYC	C3B-C4B-NB	11.23	115.72	106.77
12	k5	1203	CYC	C3B-C4B-NB	11.22	115.72	106.77
12	H7	201	CYC	C3B-C4B-NB	11.22	115.72	106.77
12	Z5	201	CYC	C3B-C4B-NB	11.21	115.71	106.77
12	M8	301	CYC	C3B-C4B-NB	11.21	115.71	106.77
12	V5	201	CYC	C3B-C4B-NB	11.21	115.70	106.77
12	B7	201	CYC	C3B-C4B-NB	11.20	115.70	106.77
12	r7	201	CYC	C3B-C4B-NB	11.20	115.70	106.77
12	P7	201	CYC	C3B-C4B-NB	11.19	115.69	106.77
12	B3	201	CYC	C3B-C4B-NB	11.18	115.68	106.77
12	B1	201	CYC	C3B-C4B-NB	11.18	115.68	106.77
12	H5	201	CYC	C3B-C4B-NB	11.17	115.67	106.77
12	B6	201	CYC	C3B-C4B-NB	11.16	115.67	106.77
12	B5	201	CYC	C3B-C4B-NB	11.16	115.67	106.77
12	P5	201	CYC	C3B-C4B-NB	11.15	115.66	106.77
12	O4	202	CYC	C3B-C4B-NB	11.15	115.66	106.77
12	O8	202	CYC	C3B-C4B-NB	11.15	115.66	106.77
12	D6	202	CYC	C3B-C4B-NB	11.15	115.66	106.77
12	J8	202	CYC	C3B-C4B-NB	11.15	115.66	106.77
12	L8	201	CYC	C3B-C4B-NB	11.14	115.66	106.77
12	F9	302	CYC	C3B-C4B-NB	11.14	115.66	106.77
12	k5	1204	CYC	C3B-C4B-NB	11.14	115.65	106.77
12	S4	201	CYC	C3B-C4B-NB	11.14	115.65	106.77
12	S8	201	CYC	C3B-C4B-NB	11.14	115.65	106.77
12	k5	1202	CYC	C3B-C4B-NB	11.13	115.65	106.77
12	F6	202	CYC	C3B-C4B-NB	11.13	115.65	106.77
12	N7	201	CYC	C3B-C4B-NB	11.13	115.65	106.77
12	BA	202	CYC	C3B-C4B-NB	11.13	115.64	106.77
12	B9	202	CYC	C3B-C4B-NB	11.13	115.64	106.77
12	D2	202	CYC	C3B-C4B-NB	11.13	115.64	106.77
12	Q4	201	CYC	C3B-C4B-NB	11.12	115.64	106.77
12	B2	201	CYC	C3B-C4B-NB	11.12	115.64	106.77
12	h7	201	CYC	C3B-C4B-NB	11.12	115.64	106.77
12	VA	202	CYC	C3B-C4B-NB	11.12	115.64	106.77
12	V9	202	CYC	C3B-C4B-NB	11.12	115.64	106.77
12	j5	1202	CYC	C3B-C4B-NB	11.12	115.63	106.77
12	L4	201	CYC	C3B-C4B-NB	11.12	115.63	106.77
12	J2	201	CYC	C3B-C4B-NB	11.12	115.63	106.77
12	Q8	201	CYC	C3B-C4B-NB	11.11	115.63	106.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	JA	201	CYC	C3B-C4B-NB	11.11	115.63	106.77
12	XA	202	CYC	C3B-C4B-NB	11.11	115.63	106.77
12	X9	202	CYC	C3B-C4B-NB	11.11	115.63	106.77
12	P1	202	CYC	C3B-C4B-NB	11.10	115.62	106.77
12	P3	202	CYC	C3B-C4B-NB	11.10	115.62	106.77
12	f7	201	CYC	C3B-C4B-NB	11.10	115.62	106.77
12	F9	303	CYC	C3B-C4B-NB	11.10	115.62	106.77
12	PA	202	CYC	C3B-C4B-NB	11.09	115.61	106.77
12	D4	201	CYC	C3B-C4B-NB	11.09	115.61	106.77
12	D8	201	CYC	C3B-C4B-NB	11.09	115.61	106.77
12	P9	202	CYC	C3B-C4B-NB	11.09	115.61	106.77
12	W4	202	CYC	C3B-C4B-NB	11.09	115.61	106.77
12	W8	202	CYC	C3B-C4B-NB	11.09	115.61	106.77
12	L3	201	CYC	C3B-C4B-NB	11.08	115.60	106.77
12	L1	201	CYC	C3B-C4B-NB	11.08	115.60	106.77
12	J4	202	CYC	C3B-C4B-NB	11.08	115.60	106.77
12	J9	201	CYC	C3B-C4B-NB	11.07	115.59	106.77
12	T3	302	CYC	C3B-C4B-NB	11.06	115.59	106.77
12	T9	302	CYC	C3B-C4B-NB	11.06	115.59	106.77
12	T1	302	CYC	C3B-C4B-NB	11.06	115.59	106.77
12	F2	202	CYC	C3B-C4B-NB	11.06	115.59	106.77
12	L6	202	CYC	C3B-C4B-NB	11.05	115.58	106.77
12	J6	201	CYC	C3B-C4B-NB	11.05	115.58	106.77
12	TA	302	CYC	C3B-C4B-NB	11.04	115.57	106.77
12	D3	201	CYC	C3B-C4B-NB	11.03	115.56	106.77
12	D1	201	CYC	C3B-C4B-NB	11.03	115.56	106.77
12	L2	202	CYC	C3B-C4B-NB	11.02	115.56	106.77
12	L9	201	CYC	C3B-C4B-NB	11.01	115.54	106.77
12	V3	202	CYC	C3B-C4B-NB	11.00	115.54	106.77
12	V1	202	CYC	C3B-C4B-NB	11.00	115.54	106.77
12	R1	202	CYC	C3B-C4B-NB	11.00	115.54	106.77
12	R3	202	CYC	C3B-C4B-NB	11.00	115.54	106.77
12	F4	201	CYC	C3B-C4B-NB	11.00	115.54	106.77
12	F8	201	CYC	C3B-C4B-NB	11.00	115.54	106.77
12	ZA	201	CYC	C3B-C4B-NB	11.00	115.54	106.77
12	Z9	201	CYC	C3B-C4B-NB	11.00	115.54	106.77
12	LA	201	CYC	C3B-C4B-NB	10.98	115.52	106.77
12	D9	202	CYC	C3B-C4B-NB	10.98	115.52	106.77
12	DA	202	CYC	C3B-C4B-NB	10.97	115.52	106.77
12	HA	201	CYC	C3B-C4B-NB	10.94	115.50	106.77
12	X3	202	CYC	C3B-C4B-NB	10.93	115.49	106.77
12	X1	202	CYC	C3B-C4B-NB	10.93	115.49	106.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	H3	201	CYC	C3B-C4B-NB	10.93	115.48	106.77
12	H1	202	CYC	C3B-C4B-NB	10.93	115.48	106.77
12	Z3	202	CYC	C3B-C4B-NB	10.93	115.48	106.77
12	H4	202	CYC	C3B-C4B-NB	10.93	115.48	106.77
12	H8	202	CYC	C3B-C4B-NB	10.93	115.48	106.77
12	Z1	201	CYC	C3B-C4B-NB	10.93	115.48	106.77
12	H9	201	CYC	C3B-C4B-NB	10.92	115.47	106.77
12	RA	202	CYC	C3B-C4B-NB	10.90	115.46	106.77
12	R9	202	CYC	C3B-C4B-NB	10.90	115.46	106.77
12	H6	202	CYC	C3B-C4B-NB	10.89	115.45	106.77
12	J1	201	CYC	C3B-C4B-NB	10.88	115.45	106.77
12	H2	202	CYC	C3B-C4B-NB	10.86	115.42	106.77
12	J3	201	CYC	C3B-C4B-NB	10.85	115.42	106.77
12	U8	202	CYC	C3B-C4B-NB	10.84	115.41	106.77
12	F3	202	CYC	C3B-C4B-NB	10.81	115.39	106.77
12	F1	202	CYC	C3B-C4B-NB	10.81	115.39	106.77
12	U4	202	CYC	C3B-C4B-NB	10.79	115.37	106.77
12	KA	201	CYC	C3B-C4B-NB	10.74	115.33	106.77
12	K9	201	CYC	C3B-C4B-NB	10.74	115.33	106.77
12	I3	201	CYC	C3B-C4B-NB	10.71	115.31	106.77
12	T4	201	CYC	C3B-C4B-NB	10.71	115.31	106.77
12	T8	201	CYC	C3B-C4B-NB	10.71	115.31	106.77
12	I1	201	CYC	C3B-C4B-NB	10.71	115.31	106.77
12	E6	201	CYC	C3B-C4B-NB	10.70	115.30	106.77
12	E2	201	CYC	C3B-C4B-NB	10.70	115.30	106.77
12	YA	201	CYC	C3B-C4B-NB	10.70	115.30	106.77
12	SA	201	CYC	C3B-C4B-NB	10.69	115.29	106.77
12	S9	201	CYC	C3B-C4B-NB	10.69	115.29	106.77
12	EA	201	CYC	C3B-C4B-NB	10.67	115.27	106.77
12	E9	201	CYC	C3B-C4B-NB	10.67	115.27	106.77
12	K3	201	CYC	C3B-C4B-NB	10.66	115.27	106.77
12	K1	201	CYC	C3B-C4B-NB	10.66	115.27	106.77
12	Y9	201	CYC	C3B-C4B-NB	10.65	115.26	106.77
12	I2	201	CYC	C3B-C4B-NB	10.64	115.25	106.77
12	S1	201	CYC	C3B-C4B-NB	10.64	115.25	106.77
12	S3	201	CYC	C3B-C4B-NB	10.64	115.25	106.77
12	R4	201	CYC	C3B-C4B-NB	10.63	115.25	106.77
12	X4	201	CYC	C3B-C4B-NB	10.63	115.25	106.77
12	X8	201	CYC	C3B-C4B-NB	10.63	115.25	106.77
12	R8	201	CYC	C3B-C4B-NB	10.63	115.25	106.77
12	E8	201	CYC	C3B-C4B-NB	10.62	115.24	106.77
12	G4	201	CYC	C3B-C4B-NB	10.62	115.24	106.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G8	201	CYC	C3B-C4B-NB	10.62	115.24	106.77
12	C4	201	CYC	C3B-C4B-NB	10.62	115.23	106.77
12	C8	201	CYC	C3B-C4B-NB	10.62	115.23	106.77
12	C6	201	CYC	C3B-C4B-NB	10.61	115.23	106.77
12	G2	201	CYC	C3B-C4B-NB	10.60	115.22	106.77
12	K2	201	CYC	C3B-C4B-NB	10.59	115.22	106.77
12	K6	201	CYC	C3B-C4B-NB	10.59	115.22	106.77
12	G6	201	CYC	C3B-C4B-NB	10.59	115.21	106.77
12	I6	201	CYC	C3B-C4B-NB	10.58	115.21	106.77
12	C2	201	CYC	C3B-C4B-NB	10.58	115.20	106.77
12	IA	201	CYC	C3B-C4B-NB	10.57	115.19	106.77
12	I9	201	CYC	C3B-C4B-NB	10.57	115.19	106.77
12	j5	1201	CYC	C3B-C4B-NB	10.57	115.19	106.77
12	O1	201	CYC	C3B-C4B-NB	10.56	115.19	106.77
12	O3	201	CYC	C3B-C4B-NB	10.56	115.19	106.77
12	E4	201	CYC	C3B-C4B-NB	10.56	115.19	106.77
12	E3	201	CYC	C3B-C4B-NB	10.55	115.18	106.77
12	E1	201	CYC	C3B-C4B-NB	10.55	115.18	106.77
12	K8	201	CYC	C3B-C4B-NB	10.55	115.18	106.77
12	A8	201	CYC	C3B-C4B-NB	10.54	115.17	106.77
12	A4	201	CYC	C3B-C4B-NB	10.53	115.17	106.77
12	A1	201	CYC	C3B-C4B-NB	10.53	115.16	106.77
12	A3	201	CYC	C3B-C4B-NB	10.53	115.16	106.77
12	Q9	201	CYC	C3B-C4B-NB	10.52	115.16	106.77
12	GA	201	CYC	C3B-C4B-NB	10.51	115.15	106.77
12	I4	201	CYC	C3B-C4B-NB	10.51	115.15	106.77
12	I8	201	CYC	C3B-C4B-NB	10.51	115.15	106.77
12	G9	201	CYC	C3B-C4B-NB	10.51	115.15	106.77
12	V8	201	CYC	C3B-C4B-NB	10.51	115.15	106.77
12	QA	201	CYC	C3B-C4B-NB	10.51	115.15	106.77
12	G3	201	CYC	C3B-C4B-NB	10.51	115.15	106.77
12	G1	201	CYC	C3B-C4B-NB	10.51	115.15	106.77
12	U3	201	CYC	C3B-C4B-NB	10.51	115.15	106.77
12	U1	201	CYC	C3B-C4B-NB	10.51	115.15	106.77
12	K4	201	CYC	C3B-C4B-NB	10.49	115.13	106.77
12	UA	201	CYC	C3B-C4B-NB	10.48	115.12	106.77
12	U9	201	CYC	C3B-C4B-NB	10.48	115.12	106.77
12	A6	201	CYC	C3B-C4B-NB	10.47	115.12	106.77
12	Y3	201	CYC	C3B-C4B-NB	10.47	115.12	106.77
12	Y1	201	CYC	C3B-C4B-NB	10.47	115.12	106.77
12	V4	201	CYC	C3B-C4B-NB	10.47	115.12	106.77
12	O9	201	CYC	C3B-C4B-NB	10.45	115.10	106.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	N4	201	CYC	C3B-C4B-NB	10.45	115.10	106.77
12	P4	201	CYC	C3B-C4B-NB	10.44	115.09	106.77
12	P8	201	CYC	C3B-C4B-NB	10.44	115.09	106.77
12	W9	201	CYC	C3B-C4B-NB	10.44	115.09	106.77
12	OA	201	CYC	C3B-C4B-NB	10.44	115.09	106.77
12	A2	201	CYC	C3B-C4B-NB	10.44	115.09	106.77
12	CA	201	CYC	C3B-C4B-NB	10.43	115.08	106.77
12	C9	201	CYC	C3B-C4B-NB	10.43	115.08	106.77
12	N8	201	CYC	C3B-C4B-NB	10.42	115.08	106.77
12	k5	1201	CYC	C3B-C4B-NB	10.41	115.07	106.77
12	WA	201	CYC	C3B-C4B-NB	10.41	115.07	106.77
12	AA	201	CYC	C3B-C4B-NB	10.40	115.06	106.77
12	A9	201	CYC	C3B-C4B-NB	10.40	115.06	106.77
12	W1	201	CYC	C3B-C4B-NB	10.39	115.05	106.77
12	C3	201	CYC	C3B-C4B-NB	10.37	115.04	106.77
12	C1	201	CYC	C3B-C4B-NB	10.37	115.04	106.77
12	Q1	201	CYC	C3B-C4B-NB	10.37	115.04	106.77
12	Q3	201	CYC	C3B-C4B-NB	10.37	115.04	106.77
12	W3	201	CYC	C3B-C4B-NB	10.35	115.03	106.77
12	B4	201	CYC	OB-C4B-C3B	-8.25	119.36	128.03
12	B8	201	CYC	OB-C4B-C3B	-8.25	119.36	128.03
12	O4	202	CYC	OB-C4B-C3B	-8.17	119.44	128.03
12	O8	202	CYC	OB-C4B-C3B	-8.17	119.44	128.03
12	F4	201	CYC	OB-C4B-C3B	-8.16	119.45	128.03
12	F9	303	CYC	OB-C4B-C3B	-8.13	119.48	128.03
12	BA	202	CYC	OB-C4B-C3B	-8.13	119.49	128.03
12	B9	202	CYC	OB-C4B-C3B	-8.13	119.49	128.03
12	F9	302	CYC	OB-C4B-C3B	-8.12	119.49	128.03
12	F8	201	CYC	OB-C4B-C3B	-8.12	119.49	128.03
12	F2	202	CYC	OB-C4B-C3B	-8.12	119.50	128.03
12	Y4	201	CYC	OB-C4B-C3B	-8.11	119.50	128.03
12	Y8	201	CYC	OB-C4B-C3B	-8.11	119.50	128.03
12	L6	202	CYC	OB-C4B-C3B	-8.11	119.50	128.03
12	L8	201	CYC	OB-C4B-C3B	-8.10	119.52	128.03
12	RA	202	CYC	OB-C4B-C3B	-8.09	119.53	128.03
12	R9	202	CYC	OB-C4B-C3B	-8.09	119.53	128.03
12	ZA	201	CYC	OB-C4B-C3B	-8.09	119.53	128.03
12	Z9	201	CYC	OB-C4B-C3B	-8.09	119.53	128.03
12	D4	201	CYC	OB-C4B-C3B	-8.08	119.53	128.03
12	X3	202	CYC	OB-C4B-C3B	-8.08	119.53	128.03
12	D8	201	CYC	OB-C4B-C3B	-8.08	119.53	128.03
12	X1	202	CYC	OB-C4B-C3B	-8.08	119.53	128.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	F6	202	CYC	OB-C4B-C3B	-8.08	119.54	128.03
12	B6	201	CYC	OB-C4B-C3B	-8.08	119.54	128.03
12	D6	202	CYC	OB-C4B-C3B	-8.08	119.54	128.03
12	D2	202	CYC	OB-C4B-C3B	-8.08	119.54	128.03
12	L4	201	CYC	OB-C4B-C3B	-8.08	119.54	128.03
12	B2	201	CYC	OB-C4B-C3B	-8.08	119.54	128.03
12	J8	202	CYC	OB-C4B-C3B	-8.06	119.56	128.03
12	R1	202	CYC	OB-C4B-C3B	-8.06	119.56	128.03
12	R3	202	CYC	OB-C4B-C3B	-8.06	119.56	128.03
12	B3	201	CYC	OB-C4B-C3B	-8.06	119.56	128.03
12	B1	201	CYC	OB-C4B-C3B	-8.06	119.56	128.03
12	L2	202	CYC	OB-C4B-C3B	-8.06	119.56	128.03
12	T3	302	CYC	OB-C4B-C3B	-8.06	119.56	128.03
12	P1	202	CYC	OB-C4B-C3B	-8.05	119.57	128.03
12	P3	202	CYC	OB-C4B-C3B	-8.05	119.57	128.03
12	Q8	201	CYC	OB-C4B-C3B	-8.04	119.58	128.03
12	J4	202	CYC	OB-C4B-C3B	-8.04	119.58	128.03
12	JA	201	CYC	OB-C4B-C3B	-8.04	119.58	128.03
12	J9	201	CYC	OB-C4B-C3B	-8.04	119.58	128.03
12	D3	201	CYC	OB-C4B-C3B	-8.04	119.58	128.03
12	D1	201	CYC	OB-C4B-C3B	-8.04	119.58	128.03
12	T1	302	CYC	OB-C4B-C3B	-8.04	119.58	128.03
12	L3	201	CYC	OB-C4B-C3B	-8.03	119.59	128.03
12	L1	201	CYC	OB-C4B-C3B	-8.03	119.59	128.03
12	J2	201	CYC	OB-C4B-C3B	-8.03	119.59	128.03
12	W4	202	CYC	OB-C4B-C3B	-8.03	119.59	128.03
12	W8	202	CYC	OB-C4B-C3B	-8.03	119.59	128.03
12	F3	202	CYC	OB-C4B-C3B	-8.02	119.60	128.03
12	F1	202	CYC	OB-C4B-C3B	-8.02	119.60	128.03
12	Q4	201	CYC	OB-C4B-C3B	-8.02	119.61	128.03
12	P9	202	CYC	OB-C4B-C3B	-8.02	119.61	128.03
12	PA	202	CYC	OB-C4B-C3B	-8.00	119.62	128.03
12	VA	202	CYC	OB-C4B-C3B	-8.00	119.62	128.03
12	V9	202	CYC	OB-C4B-C3B	-8.00	119.62	128.03
12	H4	202	CYC	OB-C4B-C3B	-7.99	119.63	128.03
12	H8	202	CYC	OB-C4B-C3B	-7.99	119.63	128.03
12	D9	202	CYC	OB-C4B-C3B	-7.99	119.63	128.03
12	S4	201	CYC	OB-C4B-C3B	-7.98	119.64	128.03
12	S8	201	CYC	OB-C4B-C3B	-7.98	119.64	128.03
12	J6	201	CYC	OB-C4B-C3B	-7.98	119.65	128.03
12	DA	202	CYC	OB-C4B-C3B	-7.97	119.65	128.03
12	HA	201	CYC	OB-C4B-C3B	-7.97	119.66	128.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	H9	201	CYC	OB-C4B-C3B	-7.97	119.66	128.03
12	T9	302	CYC	OB-C4B-C3B	-7.96	119.66	128.03
12	Z3	202	CYC	OB-C4B-C3B	-7.96	119.67	128.03
12	Z1	201	CYC	OB-C4B-C3B	-7.96	119.67	128.03
12	XA	202	CYC	OB-C4B-C3B	-7.96	119.67	128.03
12	X9	202	CYC	OB-C4B-C3B	-7.96	119.67	128.03
12	LA	201	CYC	OB-C4B-C3B	-7.96	119.67	128.03
12	L9	201	CYC	OB-C4B-C3B	-7.96	119.67	128.03
12	H3	201	CYC	OB-C4B-C3B	-7.95	119.67	128.03
12	H1	202	CYC	OB-C4B-C3B	-7.95	119.67	128.03
12	TA	302	CYC	OB-C4B-C3B	-7.95	119.68	128.03
12	J3	201	CYC	OB-C4B-C3B	-7.90	119.73	128.03
12	J1	201	CYC	OB-C4B-C3B	-7.90	119.73	128.03
12	V3	202	CYC	OB-C4B-C3B	-7.90	119.73	128.03
12	V1	202	CYC	OB-C4B-C3B	-7.90	119.73	128.03
12	H6	202	CYC	OB-C4B-C3B	-7.90	119.73	128.03
12	U4	202	CYC	OB-C4B-C3B	-7.87	119.76	128.03
12	U8	202	CYC	OB-C4B-C3B	-7.87	119.76	128.03
12	H2	202	CYC	OB-C4B-C3B	-7.85	119.78	128.03
12	m7	201	CYC	OB-C4B-C3B	-7.42	120.23	128.03
12	g7	201	CYC	OB-C4B-C3B	-7.37	120.29	128.03
12	s7	201	CYC	OB-C4B-C3B	-7.36	120.30	128.03
12	a7	201	CYC	OB-C4B-C3B	-7.32	120.33	128.03
12	I5	201	CYC	OB-C4B-C3B	-7.31	120.35	128.03
12	C5	201	CYC	OB-C4B-C3B	-7.31	120.35	128.03
12	U7	201	CYC	OB-C4B-C3B	-7.30	120.36	128.03
12	I7	201	CYC	OB-C4B-C3B	-7.30	120.36	128.03
12	O5	201	CYC	OB-C4B-C3B	-7.29	120.37	128.03
12	U5	201	CYC	OB-C4B-C3B	-7.27	120.39	128.03
12	C7	201	CYC	OB-C4B-C3B	-7.26	120.40	128.03
12	Q5	201	CYC	OB-C4B-C3B	-7.26	120.41	128.03
12	i7	201	CYC	OB-C4B-C3B	-7.25	120.41	128.03
12	O7	201	CYC	OB-C4B-C3B	-7.24	120.42	128.03
12	u7	201	CYC	OB-C4B-C3B	-7.22	120.44	128.03
12	a5	201	CYC	OB-C4B-C3B	-7.22	120.44	128.03
12	e5	201	CYC	OB-C4B-C3B	-7.21	120.45	128.03
12	Q7	201	CYC	OB-C4B-C3B	-7.20	120.46	128.03
12	c7	201	CYC	OB-C4B-C3B	-7.19	120.48	128.03
12	o7	201	CYC	OB-C4B-C3B	-7.18	120.49	128.03
12	Y5	201	CYC	OB-C4B-C3B	-7.17	120.50	128.03
12	W5	201	CYC	OB-C4B-C3B	-7.17	120.50	128.03
12	W7	201	CYC	OB-C4B-C3B	-7.16	120.51	128.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	K5	201	CYC	OB-C4B-C3B	-7.13	120.53	128.03
12	E7	201	CYC	OB-C4B-C3B	-7.13	120.53	128.03
12	c5	201	CYC	OB-C4B-C3B	-7.12	120.55	128.03
12	M7	201	CYC	OB-C4B-C3B	-7.12	120.55	128.03
12	A2	201	CYC	CAB-C3B-C4B	7.12	132.37	121.37
12	K7	201	CYC	OB-C4B-C3B	-7.11	120.56	128.03
12	E5	201	CYC	OB-C4B-C3B	-7.11	120.56	128.03
12	E8	201	CYC	CAB-C3B-C4B	7.10	132.34	121.37
12	A4	201	CYC	CAB-C3B-C4B	7.09	132.34	121.37
12	O1	201	CYC	CAB-C3B-C4B	7.09	132.34	121.37
12	O3	201	CYC	CAB-C3B-C4B	7.09	132.34	121.37
12	A6	201	CYC	CAB-C3B-C4B	7.09	132.33	121.37
12	A8	201	CYC	CAB-C3B-C4B	7.08	132.32	121.37
12	S7	201	CYC	OB-C4B-C3B	-7.08	120.59	128.03
12	KA	201	CYC	CAB-C3B-C4B	7.06	132.29	121.37
12	E4	201	CYC	CAB-C3B-C4B	7.06	132.29	121.37
12	K9	201	CYC	CAB-C3B-C4B	7.06	132.29	121.37
12	K3	201	CYC	CAB-C3B-C4B	7.06	132.29	121.37
12	K1	201	CYC	CAB-C3B-C4B	7.06	132.29	121.37
12	A7	201	CYC	OB-C4B-C3B	-7.06	120.61	128.03
12	G7	201	CYC	OB-C4B-C3B	-7.06	120.61	128.03
12	C4	201	CYC	CAB-C3B-C4B	7.06	132.28	121.37
12	C8	201	CYC	CAB-C3B-C4B	7.06	132.28	121.37
12	YA	201	CYC	CAB-C3B-C4B	7.06	132.28	121.37
12	Y9	201	CYC	CAB-C3B-C4B	7.06	132.28	121.37
12	G5	201	CYC	OB-C4B-C3B	-7.06	120.62	128.03
12	EA	201	CYC	CAB-C3B-C4B	7.06	132.28	121.37
12	GA	201	CYC	CAB-C3B-C4B	7.06	132.28	121.37
12	E9	201	CYC	CAB-C3B-C4B	7.06	132.28	121.37
12	G9	201	CYC	CAB-C3B-C4B	7.06	132.28	121.37
12	A5	201	CYC	OB-C4B-C3B	-7.05	120.62	128.03
12	U3	201	CYC	CAB-C3B-C4B	7.05	132.27	121.37
12	U1	201	CYC	CAB-C3B-C4B	7.05	132.27	121.37
12	I3	201	CYC	CAB-C3B-C4B	7.05	132.27	121.37
12	Y7	201	CYC	OB-C4B-C3B	-7.04	120.63	128.03
12	G4	201	CYC	CAB-C3B-C4B	7.04	132.26	121.37
12	R4	201	CYC	CAB-C3B-C4B	7.04	132.26	121.37
12	G8	201	CYC	CAB-C3B-C4B	7.04	132.26	121.37
12	R8	201	CYC	CAB-C3B-C4B	7.04	132.26	121.37
12	T4	201	CYC	CAB-C3B-C4B	7.04	132.25	121.37
12	T8	201	CYC	CAB-C3B-C4B	7.04	132.25	121.37
12	A1	201	CYC	CAB-C3B-C4B	7.04	132.25	121.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A3	201	CYC	CAB-C3B-C4B	7.04	132.25	121.37
12	E6	201	CYC	CAB-C3B-C4B	7.04	132.25	121.37
12	E2	201	CYC	CAB-C3B-C4B	7.04	132.25	121.37
12	C2	201	CYC	CAB-C3B-C4B	7.04	132.25	121.37
12	I1	201	CYC	CAB-C3B-C4B	7.03	132.24	121.37
12	UA	201	CYC	CAB-C3B-C4B	7.03	132.24	121.37
12	U9	201	CYC	CAB-C3B-C4B	7.03	132.24	121.37
12	K6	201	CYC	CAB-C3B-C4B	7.02	132.23	121.37
12	S5	201	CYC	OB-C4B-C3B	-7.02	120.65	128.03
12	C6	201	CYC	CAB-C3B-C4B	7.02	132.23	121.37
12	P4	201	CYC	CAB-C3B-C4B	7.02	132.23	121.37
12	P8	201	CYC	CAB-C3B-C4B	7.02	132.23	121.37
12	K2	201	CYC	CAB-C3B-C4B	7.02	132.23	121.37
12	Y3	201	CYC	CAB-C3B-C4B	7.02	132.23	121.37
12	Y1	201	CYC	CAB-C3B-C4B	7.02	132.23	121.37
12	I9	201	CYC	CAB-C3B-C4B	7.02	132.22	121.37
12	WA	201	CYC	CAB-C3B-C4B	7.02	132.22	121.37
12	W9	201	CYC	CAB-C3B-C4B	7.02	132.22	121.37
12	V8	201	CYC	CAB-C3B-C4B	7.01	132.22	121.37
12	SA	201	CYC	CAB-C3B-C4B	7.01	132.21	121.37
12	S9	201	CYC	CAB-C3B-C4B	7.01	132.21	121.37
12	k7	201	CYC	OB-C4B-C3B	-7.01	120.66	128.03
12	N4	201	CYC	CAB-C3B-C4B	7.01	132.21	121.37
12	e7	201	CYC	OB-C4B-C3B	-7.01	120.67	128.03
12	K8	201	CYC	CAB-C3B-C4B	7.01	132.20	121.37
12	M5	201	CYC	OB-C4B-C3B	-7.01	120.67	128.03
12	X4	201	CYC	CAB-C3B-C4B	7.00	132.20	121.37
12	X8	201	CYC	CAB-C3B-C4B	7.00	132.20	121.37
12	Q9	201	CYC	CAB-C3B-C4B	7.00	132.19	121.37
12	IA	201	CYC	CAB-C3B-C4B	7.00	132.19	121.37
12	N8	201	CYC	CAB-C3B-C4B	7.00	132.19	121.37
12	QA	201	CYC	CAB-C3B-C4B	7.00	132.19	121.37
12	V4	201	CYC	CAB-C3B-C4B	6.99	132.18	121.37
12	G2	201	CYC	CAB-C3B-C4B	6.99	132.18	121.37
12	E3	201	CYC	CAB-C3B-C4B	6.99	132.18	121.37
12	E1	201	CYC	CAB-C3B-C4B	6.99	132.18	121.37
12	O9	201	CYC	CAB-C3B-C4B	6.99	132.17	121.37
12	I2	201	CYC	CAB-C3B-C4B	6.99	132.17	121.37
12	q7	201	CYC	OB-C4B-C3B	-6.98	120.69	128.03
12	I4	201	CYC	CAB-C3B-C4B	6.98	132.17	121.37
12	I8	201	CYC	CAB-C3B-C4B	6.98	132.17	121.37
12	G3	201	CYC	CAB-C3B-C4B	6.98	132.17	121.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G1	201	CYC	CAB-C3B-C4B	6.98	132.17	121.37
12	K4	201	CYC	CAB-C3B-C4B	6.97	132.15	121.37
12	Q1	201	CYC	CAB-C3B-C4B	6.97	132.15	121.37
12	Q3	201	CYC	CAB-C3B-C4B	6.97	132.15	121.37
12	G6	201	CYC	CAB-C3B-C4B	6.97	132.15	121.37
12	OA	201	CYC	CAB-C3B-C4B	6.96	132.14	121.37
12	S1	201	CYC	CAB-C3B-C4B	6.96	132.13	121.37
12	S3	201	CYC	CAB-C3B-C4B	6.96	132.13	121.37
12	AA	201	CYC	CAB-C3B-C4B	6.95	132.12	121.37
12	A9	201	CYC	CAB-C3B-C4B	6.95	132.12	121.37
12	CA	201	CYC	CAB-C3B-C4B	6.95	132.12	121.37
12	C9	201	CYC	CAB-C3B-C4B	6.95	132.12	121.37
12	I6	201	CYC	CAB-C3B-C4B	6.94	132.11	121.37
12	W1	201	CYC	CAB-C3B-C4B	6.92	132.08	121.37
12	C3	201	CYC	CAB-C3B-C4B	6.92	132.07	121.37
12	C1	201	CYC	CAB-C3B-C4B	6.92	132.07	121.37
12	W3	201	CYC	CAB-C3B-C4B	6.89	132.03	121.37
12	j5	1201	CYC	CHB-C4A-NA	-6.72	110.43	124.95
12	k5	1201	CYC	CHB-C4A-NA	-6.72	110.44	124.95
12	L2	201	CYC	OB-C4B-C3B	-6.47	121.23	128.03
12	L6	201	CYC	OB-C4B-C3B	-6.47	121.23	128.03
12	aA	901	CYC	OB-C4B-C3B	-6.39	121.31	128.03
12	F8	202	CYC	OB-C4B-C3B	-6.39	121.32	128.03
12	J4	201	CYC	OB-C4B-C3B	-6.39	121.32	128.03
12	J8	201	CYC	OB-C4B-C3B	-6.39	121.32	128.03
12	TA	301	CYC	OB-C4B-C3B	-6.38	121.33	128.03
12	T9	301	CYC	OB-C4B-C3B	-6.38	121.33	128.03
12	J3	202	CYC	OB-C4B-C3B	-6.38	121.33	128.03
12	F2	201	CYC	OB-C4B-C3B	-6.37	121.34	128.03
12	J2	202	CYC	OB-C4B-C3B	-6.36	121.35	128.03
12	J6	202	CYC	OB-C4B-C3B	-6.35	121.36	128.03
12	F4	202	CYC	OB-C4B-C3B	-6.35	121.36	128.03
12	S4	202	CYC	OB-C4B-C3B	-6.35	121.36	128.03
12	M8	302	CYC	OB-C4B-C3B	-6.34	121.36	128.03
12	ZA	202	CYC	OB-C4B-C3B	-6.34	121.37	128.03
12	Z9	202	CYC	OB-C4B-C3B	-6.34	121.37	128.03
12	DA	201	CYC	OB-C4B-C3B	-6.34	121.37	128.03
12	D9	201	CYC	OB-C4B-C3B	-6.34	121.37	128.03
12	W8	201	CYC	OB-C4B-C3B	-6.34	121.37	128.03
12	F6	201	CYC	OB-C4B-C3B	-6.33	121.38	128.03
12	VA	201	CYC	OB-C4B-C3B	-6.32	121.39	128.03
12	D2	201	CYC	OB-C4B-C3B	-6.32	121.39	128.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	XA	201	CYC	OB-C4B-C3B	-6.32	121.39	128.03
12	X9	201	CYC	OB-C4B-C3B	-6.32	121.39	128.03
12	L4	202	CYC	OB-C4B-C3B	-6.31	121.39	128.03
12	V9	201	CYC	OB-C4B-C3B	-6.31	121.40	128.03
12	W4	201	CYC	OB-C4B-C3B	-6.31	121.40	128.03
12	T3	301	CYC	OB-C4B-C3B	-6.31	121.40	128.03
12	T1	301	CYC	OB-C4B-C3B	-6.31	121.40	128.03
12	a9	901	CYC	OB-C4B-C3B	-6.29	121.42	128.03
12	V3	201	CYC	OB-C4B-C3B	-6.28	121.43	128.03
12	V1	201	CYC	OB-C4B-C3B	-6.28	121.43	128.03
12	F3	201	CYC	OB-C4B-C3B	-6.28	121.43	128.03
12	F1	201	CYC	OB-C4B-C3B	-6.28	121.43	128.03
12	X3	201	CYC	OB-C4B-C3B	-6.28	121.43	128.03
12	X1	201	CYC	OB-C4B-C3B	-6.28	121.43	128.03
12	Z3	201	CYC	OB-C4B-C3B	-6.28	121.43	128.03
12	D4	202	CYC	OB-C4B-C3B	-6.28	121.43	128.03
12	D8	202	CYC	OB-C4B-C3B	-6.28	121.43	128.03
12	H6	201	CYC	OB-C4B-C3B	-6.28	121.44	128.03
12	LA	202	CYC	OB-C4B-C3B	-6.27	121.44	128.03
12	L9	202	CYC	OB-C4B-C3B	-6.27	121.44	128.03
12	RA	201	CYC	OB-C4B-C3B	-6.26	121.45	128.03
12	R9	201	CYC	OB-C4B-C3B	-6.26	121.45	128.03
12	j7	201	CYC	OB-C4B-C3B	-6.26	121.45	128.03
12	M4	301	CYC	OB-C4B-C3B	-6.26	121.45	128.03
12	Z1	202	CYC	OB-C4B-C3B	-6.26	121.45	128.03
12	U4	201	CYC	OB-C4B-C3B	-6.26	121.46	128.03
12	U8	201	CYC	OB-C4B-C3B	-6.26	121.46	128.03
12	f5	201	CYC	OB-C4B-C3B	-6.25	121.46	128.03
12	Z4	301	CYC	OB-C4B-C3B	-6.25	121.46	128.03
12	H4	201	CYC	OB-C4B-C3B	-6.24	121.47	128.03
12	H8	201	CYC	OB-C4B-C3B	-6.24	121.47	128.03
12	D1	202	CYC	OB-C4B-C3B	-6.24	121.47	128.03
12	b5	201	CYC	OB-C4B-C3B	-6.24	121.47	128.03
12	H2	201	CYC	OB-C4B-C3B	-6.23	121.48	128.03
12	L3	202	CYC	OB-C4B-C3B	-6.23	121.48	128.03
12	aA	902	CYC	OB-C4B-C3B	-6.23	121.48	128.03
12	L5	201	CYC	OB-C4B-C3B	-6.23	121.48	128.03
12	d7	201	CYC	OB-C4B-C3B	-6.23	121.49	128.03
12	F5	201	CYC	OB-C4B-C3B	-6.22	121.49	128.03
12	R1	201	CYC	OB-C4B-C3B	-6.22	121.49	128.03
12	R3	201	CYC	OB-C4B-C3B	-6.22	121.49	128.03
12	Z8	301	CYC	OB-C4B-C3B	-6.22	121.49	128.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	D3	202	CYC	OB-C4B-C3B	-6.22	121.50	128.03
12	F7	201	CYC	OB-C4B-C3B	-6.21	121.50	128.03
12	H1	201	CYC	OB-C4B-C3B	-6.21	121.50	128.03
12	JA	202	CYC	OB-C4B-C3B	-6.21	121.51	128.03
12	L7	201	CYC	OB-C4B-C3B	-6.21	121.51	128.03
12	J9	202	CYC	OB-C4B-C3B	-6.21	121.51	128.03
12	H3	202	CYC	OB-C4B-C3B	-6.21	121.51	128.03
12	FA	301	CYC	OB-C4B-C3B	-6.20	121.51	128.03
12	F9	301	CYC	OB-C4B-C3B	-6.20	121.51	128.03
12	PA	201	CYC	OB-C4B-C3B	-6.20	121.52	128.03
12	P9	201	CYC	OB-C4B-C3B	-6.20	121.52	128.03
12	X5	201	CYC	OB-C4B-C3B	-6.20	121.52	128.03
12	Z5	201	CYC	OB-C4B-C3B	-6.20	121.52	128.03
12	N2	101	CYC	OB-C4B-C3B	-6.20	121.52	128.03
12	H9	202	CYC	OB-C4B-C3B	-6.20	121.52	128.03
12	D6	201	CYC	OB-C4B-C3B	-6.19	121.53	128.03
12	O4	201	CYC	OB-C4B-C3B	-6.18	121.53	128.03
12	O8	201	CYC	OB-C4B-C3B	-6.18	121.53	128.03
12	N6	101	CYC	OB-C4B-C3B	-6.18	121.53	128.03
12	H5	201	CYC	OB-C4B-C3B	-6.18	121.54	128.03
12	B5	201	CYC	OB-C4B-C3B	-6.17	121.55	128.03
12	N5	201	CYC	OB-C4B-C3B	-6.17	121.55	128.03
12	H7	201	CYC	OB-C4B-C3B	-6.17	121.55	128.03
12	T7	201	CYC	OB-C4B-C3B	-6.16	121.55	128.03
12	HA	202	CYC	OB-C4B-C3B	-6.16	121.56	128.03
12	B9	201	CYC	OB-C4B-C3B	-6.16	121.56	128.03
12	T5	201	CYC	OB-C4B-C3B	-6.15	121.57	128.03
12	BA	201	CYC	OB-C4B-C3B	-6.15	121.57	128.03
12	R7	201	CYC	OB-C4B-C3B	-6.15	121.57	128.03
12	r7	201	CYC	OB-C4B-C3B	-6.15	121.57	128.03
12	d5	201	CYC	OB-C4B-C3B	-6.14	121.58	128.03
12	R5	201	CYC	OB-C4B-C3B	-6.14	121.58	128.03
12	p7	201	CYC	OB-C4B-C3B	-6.14	121.58	128.03
12	B3	202	CYC	OB-C4B-C3B	-6.13	121.58	128.03
12	P1	201	CYC	OB-C4B-C3B	-6.13	121.59	128.03
12	P3	201	CYC	OB-C4B-C3B	-6.13	121.59	128.03
12	J5	201	CYC	OB-C4B-C3B	-6.13	121.59	128.03
12	k5	1203	CYC	OB-C4B-C3B	-6.13	121.59	128.03
12	V7	201	CYC	OB-C4B-C3B	-6.13	121.59	128.03
12	B7	201	CYC	OB-C4B-C3B	-6.12	121.60	128.03
12	M8	301	CYC	OB-C4B-C3B	-6.11	121.61	128.03
12	X7	201	CYC	OB-C4B-C3B	-6.10	121.62	128.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	v7	201	CYC	OB-C4B-C3B	-6.10	121.62	128.03
12	V5	201	CYC	OB-C4B-C3B	-6.10	121.62	128.03
12	B1	202	CYC	OB-C4B-C3B	-6.10	121.62	128.03
12	B4	202	CYC	OB-C4B-C3B	-6.09	121.64	128.03
12	P5	201	CYC	OB-C4B-C3B	-6.08	121.64	128.03
12	D5	201	CYC	OB-C4B-C3B	-6.07	121.65	128.03
12	P7	201	CYC	OB-C4B-C3B	-6.07	121.65	128.03
12	Z	201	CYC	OB-C4B-C3B	-6.06	121.66	128.03
12	A	201	CYC	OB-C4B-C3B	-6.06	121.66	128.03
12	b7	201	CYC	OB-C4B-C3B	-6.01	121.71	128.03
12	k5	1202	CYC	OB-C4B-C3B	-5.99	121.74	128.03
12	B8	202	CYC	OB-C4B-C3B	-5.99	121.74	128.03
12	f7	201	CYC	OB-C4B-C3B	-5.98	121.75	128.03
12	j5	1202	CYC	OB-C4B-C3B	-5.98	121.75	128.03
12	N7	201	CYC	OB-C4B-C3B	-5.97	121.76	128.03
12	h7	201	CYC	OB-C4B-C3B	-5.95	121.78	128.03
12	k5	1204	CYC	OB-C4B-C3B	-5.93	121.80	128.03
12	D7	201	CYC	OB-C4B-C3B	-5.91	121.81	128.03
12	J7	201	CYC	OB-C4B-C3B	-5.89	121.84	128.03
12	BA	202	CYC	C3D-C4D-ND	5.76	114.79	107.57
12	B9	202	CYC	C3D-C4D-ND	5.76	114.79	107.57
12	O4	202	CYC	C3D-C4D-ND	5.73	114.75	107.57
12	O8	202	CYC	C3D-C4D-ND	5.73	114.75	107.57
12	H8	202	CYC	C3D-C4D-ND	5.71	114.73	107.57
12	Q8	201	CYC	C3D-C4D-ND	5.69	114.70	107.57
12	D2	202	CYC	C3D-C4D-ND	5.69	114.70	107.57
12	H4	202	CYC	C3D-C4D-ND	5.68	114.69	107.57
12	LA	201	CYC	C3D-C4D-ND	5.68	114.69	107.57
12	Q4	201	CYC	C3D-C4D-ND	5.67	114.68	107.57
12	V3	202	CYC	C3D-C4D-ND	5.67	114.68	107.57
12	V1	202	CYC	C3D-C4D-ND	5.67	114.68	107.57
12	L9	201	CYC	C3D-C4D-ND	5.67	114.68	107.57
12	U4	202	CYC	C3D-C4D-ND	5.67	114.67	107.57
12	L1	201	CYC	C3D-C4D-ND	5.67	114.67	107.57
12	P9	202	CYC	C3D-C4D-ND	5.66	114.67	107.57
12	D3	201	CYC	C3D-C4D-ND	5.66	114.67	107.57
12	D1	201	CYC	C3D-C4D-ND	5.66	114.67	107.57
12	B4	201	CYC	C3D-C4D-ND	5.66	114.66	107.57
12	B8	201	CYC	C3D-C4D-ND	5.66	114.66	107.57
12	P1	202	CYC	C3D-C4D-ND	5.66	114.66	107.57
12	H3	201	CYC	C3D-C4D-ND	5.66	114.66	107.57
12	H1	202	CYC	C3D-C4D-ND	5.66	114.66	107.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	W4	202	CYC	C3D-C4D-ND	5.66	114.66	107.57
12	D6	202	CYC	C3D-C4D-ND	5.65	114.65	107.57
12	B3	201	CYC	C3D-C4D-ND	5.64	114.65	107.57
12	P3	202	CYC	C3D-C4D-ND	5.64	114.65	107.57
12	B1	201	CYC	C3D-C4D-ND	5.64	114.65	107.57
12	L3	201	CYC	C3D-C4D-ND	5.64	114.64	107.57
12	PA	202	CYC	C3D-C4D-ND	5.64	114.64	107.57
12	U8	202	CYC	C3D-C4D-ND	5.64	114.64	107.57
12	W8	202	CYC	C3D-C4D-ND	5.64	114.64	107.57
12	VA	202	CYC	C3D-C4D-ND	5.63	114.62	107.57
12	V9	202	CYC	C3D-C4D-ND	5.63	114.62	107.57
12	HA	201	CYC	C3D-C4D-ND	5.62	114.62	107.57
12	H9	201	CYC	C3D-C4D-ND	5.62	114.62	107.57
12	Z1	201	CYC	C3D-C4D-ND	5.62	114.62	107.57
12	TA	302	CYC	C3D-C4D-ND	5.62	114.61	107.57
12	T9	302	CYC	C3D-C4D-ND	5.62	114.61	107.57
12	H2	202	CYC	C3D-C4D-ND	5.61	114.60	107.57
12	D4	201	CYC	C3D-C4D-ND	5.60	114.59	107.57
12	D8	201	CYC	C3D-C4D-ND	5.60	114.59	107.57
12	JA	201	CYC	C3D-C4D-ND	5.60	114.59	107.57
12	J9	201	CYC	C3D-C4D-ND	5.60	114.59	107.57
12	Z3	202	CYC	C3D-C4D-ND	5.60	114.59	107.57
12	B6	201	CYC	C3D-C4D-ND	5.59	114.57	107.57
12	B2	201	CYC	C3D-C4D-ND	5.59	114.57	107.57
12	J8	202	CYC	C3D-C4D-ND	5.59	114.57	107.57
12	T3	302	CYC	C3D-C4D-ND	5.58	114.57	107.57
12	T1	302	CYC	C3D-C4D-ND	5.58	114.57	107.57
12	H6	202	CYC	C3D-C4D-ND	5.58	114.57	107.57
12	ZA	201	CYC	C3D-C4D-ND	5.58	114.56	107.57
12	J4	202	CYC	C3D-C4D-ND	5.58	114.56	107.57
12	F2	202	CYC	C3D-C4D-ND	5.57	114.55	107.57
12	L4	201	CYC	C3D-C4D-ND	5.56	114.54	107.57
12	J6	201	CYC	C3D-C4D-ND	5.56	114.54	107.57
12	L8	201	CYC	C3D-C4D-ND	5.56	114.54	107.57
12	F9	302	CYC	C3D-C4D-ND	5.56	114.54	107.57
12	Z9	201	CYC	C3D-C4D-ND	5.56	114.54	107.57
12	F4	201	CYC	C3D-C4D-ND	5.56	114.54	107.57
12	F8	201	CYC	C3D-C4D-ND	5.56	114.54	107.57
12	F9	303	CYC	C3D-C4D-ND	5.55	114.53	107.57
12	F6	202	CYC	C3D-C4D-ND	5.55	114.53	107.57
12	Y4	201	CYC	C3D-C4D-ND	5.54	114.52	107.57
12	Y8	201	CYC	C3D-C4D-ND	5.54	114.52	107.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	X3	202	CYC	C3D-C4D-ND	5.54	114.52	107.57
12	X1	202	CYC	C3D-C4D-ND	5.54	114.52	107.57
12	DA	202	CYC	C3D-C4D-ND	5.54	114.51	107.57
12	RA	202	CYC	C3D-C4D-ND	5.54	114.51	107.57
12	R9	202	CYC	C3D-C4D-ND	5.54	114.51	107.57
12	X9	202	CYC	C3D-C4D-ND	5.52	114.50	107.57
12	F1	202	CYC	C3D-C4D-ND	5.52	114.49	107.57
12	XA	202	CYC	C3D-C4D-ND	5.51	114.48	107.57
12	J2	201	CYC	C3D-C4D-ND	5.51	114.48	107.57
12	R1	202	CYC	C3D-C4D-ND	5.51	114.48	107.57
12	R3	202	CYC	C3D-C4D-ND	5.51	114.48	107.57
12	D9	202	CYC	C3D-C4D-ND	5.51	114.47	107.57
12	J3	201	CYC	C3D-C4D-ND	5.49	114.45	107.57
12	J1	201	CYC	C3D-C4D-ND	5.49	114.45	107.57
12	F3	202	CYC	C3D-C4D-ND	5.49	114.45	107.57
12	S4	201	CYC	C3D-C4D-ND	5.48	114.45	107.57
12	S8	201	CYC	C3D-C4D-ND	5.48	114.45	107.57
12	L6	202	CYC	C3D-C4D-ND	5.44	114.39	107.57
12	L2	202	CYC	C3D-C4D-ND	5.41	114.36	107.57
12	L5	201	CYC	CAB-C3B-C4B	5.39	129.70	121.37
12	j5	1201	CYC	OB-C4B-C3B	-5.39	122.37	128.03
12	R5	201	CYC	CAB-C3B-C4B	5.38	129.70	121.37
12	T5	201	CYC	CAB-C3B-C4B	5.36	129.66	121.37
12	J5	201	CYC	CAB-C3B-C4B	5.36	129.66	121.37
12	F5	201	CYC	CAB-C3B-C4B	5.36	129.66	121.37
12	F7	201	CYC	CAB-C3B-C4B	5.36	129.65	121.37
12	X5	201	CYC	CAB-C3B-C4B	5.34	129.63	121.37
12	f5	201	CYC	CAB-C3B-C4B	5.34	129.63	121.37
12	p7	201	CYC	CAB-C3B-C4B	5.33	129.61	121.37
12	V7	201	CYC	CAB-C3B-C4B	5.32	129.60	121.37
12	N5	201	CYC	CAB-C3B-C4B	5.32	129.60	121.37
12	H7	201	CYC	CAB-C3B-C4B	5.32	129.60	121.37
12	r7	201	CYC	CAB-C3B-C4B	5.32	129.60	121.37
12	k5	1201	CYC	C3D-C4D-ND	5.32	114.23	107.57
12	k5	1204	CYC	CAB-C3B-C4B	5.32	129.59	121.37
12	X7	201	CYC	CAB-C3B-C4B	5.31	129.59	121.37
12	b5	201	CYC	CAB-C3B-C4B	5.31	129.59	121.37
12	v7	201	CYC	CAB-C3B-C4B	5.31	129.58	121.37
12	d5	201	CYC	CAB-C3B-C4B	5.31	129.58	121.37
12	Z5	201	CYC	CAB-C3B-C4B	5.31	129.58	121.37
12	B5	201	CYC	CAB-C3B-C4B	5.31	129.58	121.37
12	j5	1202	CYC	CAB-C3B-C4B	5.31	129.58	121.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	j5	1201	CYC	C3D-C4D-ND	5.30	114.22	107.57
12	L7	201	CYC	CAB-C3B-C4B	5.30	129.57	121.37
12	k5	1201	CYC	OB-C4B-C3B	-5.30	122.46	128.03
12	H5	201	CYC	CAB-C3B-C4B	5.30	129.57	121.37
12	T7	201	CYC	CAB-C3B-C4B	5.30	129.56	121.37
12	P7	201	CYC	CAB-C3B-C4B	5.30	129.56	121.37
12	R7	201	CYC	CAB-C3B-C4B	5.29	129.56	121.37
12	f7	201	CYC	CAB-C3B-C4B	5.29	129.54	121.37
12	D5	201	CYC	CAB-C3B-C4B	5.29	129.54	121.37
12	k5	1203	CYC	CAB-C3B-C4B	5.28	129.54	121.37
12	j7	201	CYC	CAB-C3B-C4B	5.28	129.53	121.37
12	V5	201	CYC	CAB-C3B-C4B	5.28	129.53	121.37
12	J7	201	CYC	CAB-C3B-C4B	5.28	129.53	121.37
12	b7	201	CYC	CAB-C3B-C4B	5.27	129.52	121.37
12	k5	1202	CYC	CAB-C3B-C4B	5.27	129.51	121.37
12	B7	201	CYC	CAB-C3B-C4B	5.27	129.51	121.37
12	P5	201	CYC	CAB-C3B-C4B	5.26	129.51	121.37
12	D7	201	CYC	CAB-C3B-C4B	5.26	129.50	121.37
12	d7	201	CYC	CAB-C3B-C4B	5.25	129.49	121.37
12	Z	201	CYC	CAB-C3B-C4B	5.25	129.48	121.37
12	A	201	CYC	CAB-C3B-C4B	5.24	129.48	121.37
12	h7	201	CYC	CAB-C3B-C4B	5.24	129.48	121.37
12	N7	201	CYC	CAB-C3B-C4B	5.23	129.46	121.37
12	k5	1201	CYC	CMB-C2B-C1B	5.19	130.48	124.16
12	Y4	201	CYC	C1B-NB-C4B	-5.18	104.31	110.66
12	Y8	201	CYC	C1B-NB-C4B	-5.18	104.31	110.66
12	U5	201	CYC	CHB-C4A-NA	-5.17	113.78	124.95
12	j5	1201	CYC	CMB-C2B-C1B	5.16	130.43	124.16
12	Q5	201	CYC	CHB-C4A-NA	-5.15	113.84	124.95
12	i7	201	CYC	CHB-C4A-NA	-5.14	113.85	124.95
12	E7	201	CYC	CHB-C4A-NA	-5.14	113.85	124.95
12	I7	201	CYC	CHB-C4A-NA	-5.14	113.86	124.95
12	W5	201	CYC	CHB-C4A-NA	-5.13	113.86	124.95
12	C7	201	CYC	CHB-C4A-NA	-5.13	113.87	124.95
12	O5	201	CYC	CHB-C4A-NA	-5.13	113.87	124.95
12	K7	201	CYC	CHB-C4A-NA	-5.12	113.89	124.95
12	a5	201	CYC	CHB-C4A-NA	-5.12	113.89	124.95
12	Q7	201	CYC	CHB-C4A-NA	-5.11	113.92	124.95
12	e5	201	CYC	CHB-C4A-NA	-5.10	113.93	124.95
12	c7	201	CYC	CHB-C4A-NA	-5.10	113.93	124.95
12	s7	201	CYC	CHB-C4A-NA	-5.09	113.95	124.95
12	O4	202	CYC	C1B-NB-C4B	-5.09	104.41	110.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	O8	202	CYC	C1B-NB-C4B	-5.09	104.41	110.66
12	A5	201	CYC	CHB-C4A-NA	-5.09	113.96	124.95
12	S7	201	CYC	CHB-C4A-NA	-5.09	113.96	124.95
12	VA	202	CYC	C1B-NB-C4B	-5.09	104.42	110.66
12	V9	202	CYC	C1B-NB-C4B	-5.09	104.42	110.66
12	U7	201	CYC	CHB-C4A-NA	-5.08	113.97	124.95
12	G5	201	CYC	CHB-C4A-NA	-5.08	113.97	124.95
12	u7	201	CYC	CHB-C4A-NA	-5.08	113.98	124.95
12	W7	201	CYC	CHB-C4A-NA	-5.08	113.98	124.95
12	W4	202	CYC	C1B-NB-C4B	-5.08	104.43	110.66
12	W8	202	CYC	C1B-NB-C4B	-5.08	104.43	110.66
12	k7	201	CYC	CHB-C4A-NA	-5.08	113.98	124.95
12	I5	201	CYC	CHB-C4A-NA	-5.08	113.99	124.95
12	Y5	201	CYC	CHB-C4A-NA	-5.08	113.99	124.95
12	O7	201	CYC	CHB-C4A-NA	-5.07	114.00	124.95
12	G7	201	CYC	CHB-C4A-NA	-5.07	114.00	124.95
12	o7	201	CYC	CHB-C4A-NA	-5.07	114.00	124.95
12	m7	201	CYC	CHB-C4A-NA	-5.07	114.00	124.95
12	XA	202	CYC	C1B-NB-C4B	-5.07	104.44	110.66
12	X9	202	CYC	C1B-NB-C4B	-5.07	104.44	110.66
12	A7	201	CYC	CHB-C4A-NA	-5.07	114.01	124.95
12	S4	201	CYC	C1B-NB-C4B	-5.06	104.44	110.66
12	S8	201	CYC	C1B-NB-C4B	-5.06	104.44	110.66
12	C5	201	CYC	CHB-C4A-NA	-5.06	114.01	124.95
12	a7	201	CYC	CHB-C4A-NA	-5.06	114.02	124.95
12	e7	201	CYC	CHB-C4A-NA	-5.06	114.02	124.95
12	L9	201	CYC	C1B-NB-C4B	-5.06	104.45	110.66
12	Q4	201	CYC	C1B-NB-C4B	-5.06	104.45	110.66
12	M7	201	CYC	CHB-C4A-NA	-5.06	114.03	124.95
12	E5	201	CYC	CHB-C4A-NA	-5.05	114.04	124.95
12	c5	201	CYC	CHB-C4A-NA	-5.05	114.04	124.95
12	q7	201	CYC	CHB-C4A-NA	-5.05	114.04	124.95
12	L3	201	CYC	C1B-NB-C4B	-5.05	104.46	110.66
12	L1	201	CYC	C1B-NB-C4B	-5.05	104.46	110.66
12	S5	201	CYC	CHB-C4A-NA	-5.05	114.05	124.95
12	g7	201	CYC	CHB-C4A-NA	-5.05	114.05	124.95
12	K5	201	CYC	CHB-C4A-NA	-5.04	114.06	124.95
12	LA	201	CYC	C1B-NB-C4B	-5.04	104.47	110.66
12	Y7	201	CYC	CHB-C4A-NA	-5.04	114.07	124.95
12	PA	202	CYC	C1B-NB-C4B	-5.03	104.48	110.66
12	P9	202	CYC	C1B-NB-C4B	-5.03	104.48	110.66
12	M5	201	CYC	CHB-C4A-NA	-5.03	114.09	124.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B3	201	CYC	C1B-NB-C4B	-5.03	104.49	110.66
12	B1	201	CYC	C1B-NB-C4B	-5.03	104.49	110.66
12	Q8	201	CYC	C1B-NB-C4B	-5.02	104.49	110.66
12	J8	202	CYC	C1B-NB-C4B	-5.02	104.50	110.66
12	J1	201	CYC	C1B-NB-C4B	-5.02	104.50	110.66
12	B4	201	CYC	C1B-NB-C4B	-5.02	104.50	110.66
12	B8	201	CYC	C1B-NB-C4B	-5.02	104.50	110.66
12	k7	201	CYC	OC-C1C-C2C	-5.01	122.19	126.17
12	JA	201	CYC	C1B-NB-C4B	-5.01	104.51	110.66
12	k5	1201	CYC	CHB-C4A-C3A	5.00	137.72	124.87
12	L6	202	CYC	C1B-NB-C4B	-5.00	104.52	110.66
12	J3	201	CYC	C1B-NB-C4B	-5.00	104.52	110.66
12	L8	201	CYC	C1B-NB-C4B	-5.00	104.53	110.66
12	J4	202	CYC	C1B-NB-C4B	-4.99	104.53	110.66
12	j5	1201	CYC	CHB-C4A-C3A	4.99	137.70	124.87
12	H2	202	CYC	C1B-NB-C4B	-4.99	104.53	110.66
12	D4	201	CYC	C1B-NB-C4B	-4.99	104.53	110.66
12	H6	202	CYC	C1B-NB-C4B	-4.99	104.53	110.66
12	D8	201	CYC	C1B-NB-C4B	-4.99	104.53	110.66
12	g7	201	CYC	OC-C1C-C2C	-4.99	122.21	126.17
12	J9	201	CYC	C1B-NB-C4B	-4.99	104.54	110.66
12	L4	201	CYC	C1B-NB-C4B	-4.98	104.55	110.66
12	L2	202	CYC	C1B-NB-C4B	-4.97	104.56	110.66
12	X3	202	CYC	C1B-NB-C4B	-4.97	104.56	110.66
12	X1	202	CYC	C1B-NB-C4B	-4.97	104.56	110.66
12	J6	201	CYC	C1B-NB-C4B	-4.97	104.56	110.66
12	Z5	201	CYC	C3D-C4D-ND	4.97	113.80	107.57
12	P1	202	CYC	C1B-NB-C4B	-4.97	104.57	110.66
12	P3	202	CYC	C1B-NB-C4B	-4.97	104.57	110.66
12	BA	202	CYC	C1B-NB-C4B	-4.96	104.57	110.66
12	J2	201	CYC	C1B-NB-C4B	-4.96	104.57	110.66
12	B6	201	CYC	C1B-NB-C4B	-4.96	104.57	110.66
12	B9	202	CYC	C1B-NB-C4B	-4.96	104.57	110.66
12	H5	201	CYC	C3D-C4D-ND	4.96	113.79	107.57
12	d5	201	CYC	C3D-C4D-ND	4.96	113.78	107.57
12	H1	202	CYC	C1B-NB-C4B	-4.95	104.58	110.66
12	D3	201	CYC	C1B-NB-C4B	-4.95	104.58	110.66
12	D1	201	CYC	C1B-NB-C4B	-4.95	104.58	110.66
12	B2	201	CYC	C1B-NB-C4B	-4.95	104.59	110.66
12	q7	201	CYC	OC-C1C-C2C	-4.95	122.24	126.17
12	Y4	201	CYC	C2B-C1B-NB	4.94	114.17	106.97
12	Y8	201	CYC	C2B-C1B-NB	4.94	114.17	106.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	U8	202	CYC	C1B-NB-C4B	-4.93	104.61	110.66
12	B5	201	CYC	C3D-C4D-ND	4.93	113.75	107.57
12	ZA	201	CYC	C1B-NB-C4B	-4.93	104.61	110.66
12	Z9	201	CYC	C1B-NB-C4B	-4.93	104.61	110.66
12	c7	201	CYC	OC-C1C-C2C	-4.93	122.25	126.17
12	R1	202	CYC	C1B-NB-C4B	-4.92	104.62	110.66
12	R3	202	CYC	C1B-NB-C4B	-4.92	104.62	110.66
12	TA	302	CYC	C1B-NB-C4B	-4.92	104.62	110.66
12	H3	201	CYC	C1B-NB-C4B	-4.92	104.62	110.66
12	T9	302	CYC	C1B-NB-C4B	-4.92	104.62	110.66
12	HA	201	CYC	C1B-NB-C4B	-4.92	104.63	110.66
12	F9	303	CYC	C1B-NB-C4B	-4.92	104.63	110.66
12	T5	201	CYC	C3D-C4D-ND	4.91	113.72	107.57
12	a7	201	CYC	OC-C1C-C2C	-4.90	122.27	126.17
12	H4	202	CYC	C1B-NB-C4B	-4.90	104.64	110.66
12	H8	202	CYC	C1B-NB-C4B	-4.90	104.64	110.66
12	U4	202	CYC	C1B-NB-C4B	-4.90	104.64	110.66
12	f7	201	CYC	C3D-C4D-ND	4.90	113.71	107.57
12	H9	201	CYC	C1B-NB-C4B	-4.90	104.65	110.66
12	H7	201	CYC	C3D-C4D-ND	4.90	113.71	107.57
12	F9	302	CYC	C1B-NB-C4B	-4.89	104.65	110.66
12	V3	202	CYC	C1B-NB-C4B	-4.89	104.66	110.66
12	V1	202	CYC	C1B-NB-C4B	-4.89	104.66	110.66
12	B7	201	CYC	C3D-C4D-ND	4.89	113.69	107.57
12	i7	201	CYC	C1B-NB-C4B	-4.88	104.67	110.66
12	Z3	202	CYC	C1B-NB-C4B	-4.88	104.67	110.66
12	Z1	201	CYC	C1B-NB-C4B	-4.88	104.67	110.66
12	k5	1202	CYC	C3D-C4D-ND	4.88	113.69	107.57
12	J4	202	CYC	C2B-C1B-NB	4.88	114.08	106.97
12	J8	202	CYC	C2B-C1B-NB	4.88	114.08	106.97
12	K5	201	CYC	C1B-NB-C4B	-4.87	104.68	110.66
12	P7	201	CYC	C3D-C4D-ND	4.87	113.68	107.57
12	D6	202	CYC	C1B-NB-C4B	-4.87	104.68	110.66
12	j7	201	CYC	C3D-C4D-ND	4.87	113.68	107.57
12	T3	302	CYC	C1B-NB-C4B	-4.87	104.68	110.66
12	T1	302	CYC	C1B-NB-C4B	-4.87	104.68	110.66
12	i7	201	CYC	OC-C1C-C2C	-4.87	122.30	126.17
12	N5	201	CYC	C3D-C4D-ND	4.87	113.67	107.57
12	F6	202	CYC	C1B-NB-C4B	-4.87	104.69	110.66
12	YA	201	CYC	OB-C4B-C3B	-4.87	122.92	128.03
12	C6	201	CYC	OB-C4B-C3B	-4.87	122.92	128.03
12	Y9	201	CYC	OB-C4B-C3B	-4.87	122.92	128.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	EA	201	CYC	OB-C4B-C3B	-4.86	122.92	128.03
12	E9	201	CYC	OB-C4B-C3B	-4.86	122.92	128.03
12	H2	202	CYC	C2B-C1B-NB	4.86	114.06	106.97
12	D2	202	CYC	C1B-NB-C4B	-4.86	104.70	110.66
12	H6	202	CYC	C2B-C1B-NB	4.86	114.05	106.97
12	F3	202	CYC	C1B-NB-C4B	-4.86	104.70	110.66
12	F1	202	CYC	C1B-NB-C4B	-4.86	104.70	110.66
12	A	201	CYC	C3D-C4D-ND	4.85	113.65	107.57
12	R7	201	CYC	C3D-C4D-ND	4.85	113.65	107.57
12	F2	202	CYC	C1B-NB-C4B	-4.85	104.71	110.66
12	C2	201	CYC	OB-C4B-C3B	-4.85	122.93	128.03
12	d7	201	CYC	C3D-C4D-ND	4.85	113.65	107.57
12	XA	202	CYC	C2B-C1B-NB	4.85	114.04	106.97
12	X9	202	CYC	C2B-C1B-NB	4.85	114.04	106.97
12	E8	201	CYC	OB-C4B-C3B	-4.85	122.94	128.03
12	F4	201	CYC	C1B-NB-C4B	-4.85	104.71	110.66
12	c7	201	CYC	C1B-NB-C4B	-4.85	104.71	110.66
12	F8	201	CYC	C1B-NB-C4B	-4.85	104.71	110.66
12	Q7	201	CYC	OC-C1C-C2C	-4.84	122.32	126.17
12	M7	201	CYC	OC-C1C-C2C	-4.84	122.32	126.17
12	Z	201	CYC	C3D-C4D-ND	4.84	113.64	107.57
12	U3	201	CYC	OB-C4B-C3B	-4.84	122.94	128.03
12	U1	201	CYC	OB-C4B-C3B	-4.84	122.94	128.03
12	S5	201	CYC	OC-C1C-C2C	-4.84	122.32	126.17
12	i7	201	CYC	CMA-C3A-C4A	4.84	132.62	125.10
12	I2	201	CYC	OB-C4B-C3B	-4.84	122.95	128.03
12	GA	201	CYC	OB-C4B-C3B	-4.84	122.95	128.03
12	G9	201	CYC	OB-C4B-C3B	-4.84	122.95	128.03
12	f5	201	CYC	C3D-C4D-ND	4.84	113.63	107.57
12	K7	201	CYC	CMA-C3A-C4A	4.83	132.61	125.10
12	F7	201	CYC	C3D-C4D-ND	4.83	113.63	107.57
12	b7	201	CYC	C3D-C4D-ND	4.83	113.63	107.57
12	M5	201	CYC	OC-C1C-C2C	-4.83	122.33	126.17
12	VA	202	CYC	C2B-C1B-NB	4.83	114.01	106.97
12	J1	201	CYC	C2B-C1B-NB	4.83	114.01	106.97
12	X3	202	CYC	C2B-C1B-NB	4.83	114.01	106.97
12	W4	202	CYC	C2B-C1B-NB	4.83	114.01	106.97
12	W8	202	CYC	C2B-C1B-NB	4.83	114.01	106.97
12	X1	202	CYC	C2B-C1B-NB	4.83	114.01	106.97
12	I7	201	CYC	CMA-C3A-C4A	4.83	132.60	125.10
12	ZA	202	CYC	C1B-C2B-C3B	-4.83	102.90	107.86
12	Z9	202	CYC	C1B-C2B-C3B	-4.83	102.90	107.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	J7	201	CYC	C3D-C4D-ND	4.83	113.62	107.57
12	G5	201	CYC	C1B-NB-C4B	-4.83	104.74	110.66
12	RA	202	CYC	C1B-NB-C4B	-4.82	104.74	110.66
12	R9	202	CYC	C1B-NB-C4B	-4.82	104.74	110.66
12	O7	201	CYC	CMA-C3A-C4A	4.82	132.59	125.10
12	XA	201	CYC	C1B-C2B-C3B	-4.82	102.91	107.86
12	A4	201	CYC	OB-C4B-C3B	-4.82	122.96	128.03
12	k5	1203	CYC	C3D-C4D-ND	4.82	113.61	107.57
12	G6	201	CYC	OB-C4B-C3B	-4.82	122.97	128.03
12	W7	201	CYC	C1B-NB-C4B	-4.82	104.74	110.66
12	Q4	201	CYC	C2B-C1B-NB	4.82	114.00	106.97
12	X9	201	CYC	C1B-C2B-C3B	-4.82	102.91	107.86
12	K7	201	CYC	C1B-NB-C4B	-4.82	104.75	110.66
12	A2	201	CYC	OB-C4B-C3B	-4.82	122.97	128.03
12	E5	201	CYC	C1B-NB-C4B	-4.82	104.75	110.66
12	U4	202	CYC	C2B-C1B-NB	4.82	113.99	106.97
12	U8	202	CYC	C2B-C1B-NB	4.82	113.99	106.97
12	E4	201	CYC	OB-C4B-C3B	-4.81	122.97	128.03
12	h7	201	CYC	C3D-C4D-ND	4.81	113.61	107.57
12	G4	201	CYC	OB-C4B-C3B	-4.81	122.97	128.03
12	G8	201	CYC	OB-C4B-C3B	-4.81	122.97	128.03
12	J2	202	CYC	C1B-C2B-C3B	-4.81	102.92	107.86
12	AA	201	CYC	OB-C4B-C3B	-4.81	122.98	128.03
12	A9	201	CYC	OB-C4B-C3B	-4.81	122.98	128.03
12	J3	201	CYC	C2B-C1B-NB	4.81	113.98	106.97
12	V5	201	CYC	C3D-C4D-ND	4.81	113.60	107.57
12	G2	201	CYC	OB-C4B-C3B	-4.81	122.98	128.03
12	L7	201	CYC	C3D-C4D-ND	4.81	113.60	107.57
12	C7	201	CYC	CMA-C3A-C4A	4.81	132.57	125.10
12	V9	202	CYC	C2B-C1B-NB	4.81	113.98	106.97
12	D5	201	CYC	C3D-C4D-ND	4.81	113.60	107.57
12	L3	202	CYC	C1B-C2B-C3B	-4.81	102.92	107.86
12	F5	201	CYC	C3D-C4D-ND	4.81	113.60	107.57
12	N4	201	CYC	OB-C4B-C3B	-4.81	122.98	128.03
12	A8	201	CYC	OB-C4B-C3B	-4.81	122.98	128.03
12	E7	201	CYC	CMA-C3A-C4A	4.81	132.56	125.10
12	g7	201	CYC	CMA-C3A-C4A	4.81	132.56	125.10
12	LA	201	CYC	C2B-C1B-NB	4.81	113.97	106.97
12	L9	201	CYC	C2B-C1B-NB	4.81	113.97	106.97
12	H1	202	CYC	C2B-C1B-NB	4.81	113.97	106.97
12	c5	201	CYC	CMA-C3A-C4A	4.80	132.56	125.10
12	W7	201	CYC	CMA-C3A-C4A	4.80	132.56	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	T7	201	CYC	C3D-C4D-ND	4.80	113.59	107.57
12	r7	201	CYC	C3D-C4D-ND	4.80	113.59	107.57
12	B4	201	CYC	C2B-C1B-NB	4.80	113.97	106.97
12	B8	201	CYC	C2B-C1B-NB	4.80	113.97	106.97
12	JA	201	CYC	C2B-C1B-NB	4.80	113.97	106.97
12	J9	201	CYC	C2B-C1B-NB	4.80	113.97	106.97
12	QA	201	CYC	OB-C4B-C3B	-4.80	122.99	128.03
12	V7	201	CYC	C3D-C4D-ND	4.80	113.59	107.57
12	Y5	201	CYC	C1B-NB-C4B	-4.80	104.77	110.66
12	N8	201	CYC	OB-C4B-C3B	-4.80	122.99	128.03
12	u7	201	CYC	CMA-C3A-C4A	4.80	132.55	125.10
12	D4	201	CYC	C2B-C1B-NB	4.80	113.96	106.97
12	D8	201	CYC	C2B-C1B-NB	4.80	113.96	106.97
12	X7	201	CYC	C3D-C4D-ND	4.80	113.58	107.57
12	E7	201	CYC	C1B-NB-C4B	-4.80	104.77	110.66
12	J5	201	CYC	C3D-C4D-ND	4.80	113.58	107.57
12	c5	201	CYC	OC-C1C-C2C	-4.80	122.36	126.17
12	I3	201	CYC	OB-C4B-C3B	-4.80	122.99	128.03
12	PA	202	CYC	C2B-C1B-NB	4.80	113.96	106.97
12	P9	202	CYC	C2B-C1B-NB	4.80	113.96	106.97
12	m7	201	CYC	CAB-C3B-C4B	4.79	128.78	121.37
12	Q9	201	CYC	OB-C4B-C3B	-4.79	123.00	128.03
12	e5	201	CYC	OC-C1C-C2C	-4.79	122.36	126.17
12	J6	202	CYC	C1B-C2B-C3B	-4.79	102.94	107.86
12	U5	201	CYC	C1B-NB-C4B	-4.79	104.78	110.66
12	J6	201	CYC	C2B-C1B-NB	4.79	113.95	106.97
12	A7	201	CYC	CMA-C3A-C4A	4.79	132.54	125.10
12	a7	201	CYC	CMA-C3A-C4A	4.79	132.54	125.10
12	Q8	201	CYC	C2B-C1B-NB	4.79	113.95	106.97
12	G7	201	CYC	CMA-C3A-C4A	4.79	132.53	125.10
12	c5	201	CYC	C1B-NB-C4B	-4.79	104.78	110.66
12	S4	202	CYC	C1B-C2B-C3B	-4.79	102.94	107.86
12	KA	201	CYC	OB-C4B-C3B	-4.79	123.00	128.03
12	K9	201	CYC	OB-C4B-C3B	-4.79	123.00	128.03
12	F8	202	CYC	C1B-C2B-C3B	-4.79	102.94	107.86
12	U7	201	CYC	CMA-C3A-C4A	4.78	132.53	125.10
12	Y5	201	CYC	OC-C1C-C2C	-4.78	122.37	126.17
12	W7	201	CYC	OC-C1C-C2C	-4.78	122.37	126.17
12	Z3	202	CYC	C2B-C1B-NB	4.78	113.94	106.97
12	Z1	201	CYC	C2B-C1B-NB	4.78	113.94	106.97
12	D4	202	CYC	C1B-C2B-C3B	-4.78	102.94	107.86
12	U5	201	CYC	OC-C1C-C2C	-4.78	122.37	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	O1	201	CYC	OB-C4B-C3B	-4.78	123.00	128.03
12	O3	201	CYC	OB-C4B-C3B	-4.78	123.00	128.03
12	X1	201	CYC	C1B-C2B-C3B	-4.78	102.95	107.86
12	C4	201	CYC	OB-C4B-C3B	-4.78	123.01	128.03
12	C8	201	CYC	OB-C4B-C3B	-4.78	123.01	128.03
12	L6	202	CYC	C2B-C1B-NB	4.78	113.94	106.97
12	O5	201	CYC	C1B-NB-C4B	-4.78	104.79	110.66
12	W4	201	CYC	C1B-C2B-C3B	-4.78	102.95	107.86
12	W8	201	CYC	C1B-C2B-C3B	-4.78	102.95	107.86
12	UA	201	CYC	OB-C4B-C3B	-4.78	123.01	128.03
12	U9	201	CYC	OB-C4B-C3B	-4.78	123.01	128.03
12	F3	202	CYC	C2B-C1B-NB	4.78	113.94	106.97
12	F1	202	CYC	C2B-C1B-NB	4.78	113.94	106.97
12	K3	201	CYC	OB-C4B-C3B	-4.78	123.01	128.03
12	K1	201	CYC	OB-C4B-C3B	-4.78	123.01	128.03
12	N7	201	CYC	C3D-C4D-ND	4.78	113.56	107.57
12	H3	201	CYC	C2B-C1B-NB	4.78	113.93	106.97
12	K5	201	CYC	OC-C1C-C2C	-4.78	122.37	126.17
12	E5	201	CYC	CMA-C3A-C4A	4.78	132.52	125.10
12	A7	201	CYC	C1B-NB-C4B	-4.78	104.80	110.66
12	R4	201	CYC	OB-C4B-C3B	-4.78	123.01	128.03
12	R8	201	CYC	OB-C4B-C3B	-4.78	123.01	128.03
12	X3	201	CYC	C1B-C2B-C3B	-4.78	102.95	107.86
12	c7	201	CYC	CMA-C3A-C4A	4.77	132.51	125.10
12	I1	201	CYC	OB-C4B-C3B	-4.77	123.01	128.03
12	b5	201	CYC	C3D-C4D-ND	4.77	113.55	107.57
12	V3	202	CYC	C2B-C1B-NB	4.77	113.92	106.97
12	V1	202	CYC	C2B-C1B-NB	4.77	113.92	106.97
12	Q7	201	CYC	CMA-C3A-C4A	4.77	132.51	125.10
12	L5	201	CYC	C3D-C4D-ND	4.77	113.55	107.57
12	Z4	301	CYC	C1B-C2B-C3B	-4.77	102.96	107.86
12	p7	201	CYC	C3D-C4D-ND	4.77	113.55	107.57
12	G5	201	CYC	CMA-C3A-C4A	4.77	132.51	125.10
12	A1	201	CYC	OB-C4B-C3B	-4.77	123.02	128.03
12	A3	201	CYC	OB-C4B-C3B	-4.77	123.02	128.03
12	A5	201	CYC	C1B-NB-C4B	-4.77	104.81	110.66
12	X5	201	CYC	C3D-C4D-ND	4.77	113.55	107.57
12	L3	201	CYC	C2B-C1B-NB	4.77	113.92	106.97
12	L1	201	CYC	C2B-C1B-NB	4.77	113.92	106.97
12	D6	201	CYC	C1B-C2B-C3B	-4.77	102.96	107.86
12	o7	201	CYC	CMA-C3A-C4A	4.77	132.50	125.10
12	aA	902	CYC	C1B-C2B-C3B	-4.77	102.96	107.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	T4	201	CYC	OB-C4B-C3B	-4.77	123.02	128.03
12	T8	201	CYC	OB-C4B-C3B	-4.77	123.02	128.03
12	U5	201	CYC	CMA-C3A-C4A	4.77	132.50	125.10
12	Y5	201	CYC	CMA-C3A-C4A	4.77	132.50	125.10
12	U7	201	CYC	C1B-NB-C4B	-4.77	104.81	110.66
12	K8	201	CYC	OB-C4B-C3B	-4.77	123.02	128.03
12	Q7	201	CYC	CAB-C3B-C4B	4.77	128.74	121.37
12	D3	201	CYC	C2B-C1B-NB	4.76	113.92	106.97
12	D1	201	CYC	C2B-C1B-NB	4.76	113.92	106.97
12	B3	201	CYC	C2B-C1B-NB	4.76	113.91	106.97
12	B1	201	CYC	C2B-C1B-NB	4.76	113.91	106.97
12	O5	201	CYC	CMA-C3A-C4A	4.76	132.50	125.10
12	P5	201	CYC	C3D-C4D-ND	4.76	113.54	107.57
12	D7	201	CYC	C3D-C4D-ND	4.76	113.54	107.57
12	K7	201	CYC	OC-C1C-C2C	-4.76	122.39	126.17
12	Q7	201	CYC	C1B-NB-C4B	-4.76	104.82	110.66
12	I4	201	CYC	OB-C4B-C3B	-4.76	123.03	128.03
12	I8	201	CYC	OB-C4B-C3B	-4.76	123.03	128.03
12	J2	201	CYC	C2B-C1B-NB	4.76	113.91	106.97
12	O7	201	CYC	C1B-NB-C4B	-4.76	104.82	110.66
12	V8	201	CYC	OB-C4B-C3B	-4.76	123.03	128.03
12	H3	202	CYC	C1B-C2B-C3B	-4.76	102.97	107.86
12	K2	201	CYC	OB-C4B-C3B	-4.76	123.03	128.03
12	K6	201	CYC	OB-C4B-C3B	-4.76	123.03	128.03
12	DA	202	CYC	C1B-NB-C4B	-4.76	104.82	110.66
12	N2	101	CYC	C1B-C2B-C3B	-4.76	102.97	107.86
12	I6	201	CYC	OB-C4B-C3B	-4.76	123.03	128.03
12	S7	201	CYC	OC-C1C-C2C	-4.76	122.39	126.17
12	F3	201	CYC	C1B-C2B-C3B	-4.76	102.97	107.86
12	F1	201	CYC	C1B-C2B-C3B	-4.76	102.97	107.86
12	G3	201	CYC	OB-C4B-C3B	-4.76	123.03	128.03
12	G1	201	CYC	OB-C4B-C3B	-4.76	123.03	128.03
12	W5	201	CYC	C1B-NB-C4B	-4.76	104.82	110.66
12	O4	201	CYC	C1B-C2B-C3B	-4.76	102.97	107.86
12	O8	201	CYC	C1B-C2B-C3B	-4.76	102.97	107.86
12	RA	202	CYC	C2B-C1B-NB	4.76	113.90	106.97
12	R9	202	CYC	C2B-C1B-NB	4.76	113.90	106.97
12	a7	201	CYC	C1B-NB-C4B	-4.75	104.83	110.66
12	m7	201	CYC	CMA-C3A-C4A	4.75	132.48	125.10
12	F4	202	CYC	C1B-C2B-C3B	-4.75	102.98	107.86
12	LA	202	CYC	C1B-C2B-C3B	-4.75	102.98	107.86
12	S4	201	CYC	C2B-C1B-NB	4.75	113.90	106.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	S8	201	CYC	C2B-C1B-NB	4.75	113.90	106.97
12	X4	201	CYC	OB-C4B-C3B	-4.75	123.04	128.03
12	X8	201	CYC	OB-C4B-C3B	-4.75	123.04	128.03
12	M7	201	CYC	CMA-C3A-C4A	4.75	132.48	125.10
12	k7	201	CYC	CMA-C3A-C4A	4.75	132.48	125.10
12	E5	201	CYC	OC-C1C-C2C	-4.75	122.40	126.17
12	G7	201	CYC	C1B-NB-C4B	-4.75	104.83	110.66
12	B4	202	CYC	C1B-C2B-C3B	-4.75	102.98	107.86
12	O4	202	CYC	C2B-C1B-NB	4.75	113.89	106.97
12	O8	202	CYC	C2B-C1B-NB	4.75	113.89	106.97
12	M5	201	CYC	CMA-C3A-C4A	4.75	132.47	125.10
12	Q5	201	CYC	CMA-C3A-C4A	4.75	132.47	125.10
12	L2	202	CYC	C2B-C1B-NB	4.75	113.89	106.97
12	A6	201	CYC	OB-C4B-C3B	-4.75	123.04	128.03
12	CA	201	CYC	OB-C4B-C3B	-4.74	123.05	128.03
12	C9	201	CYC	OB-C4B-C3B	-4.74	123.05	128.03
12	P1	202	CYC	C2B-C1B-NB	4.74	113.89	106.97
12	P3	202	CYC	C2B-C1B-NB	4.74	113.89	106.97
12	W5	201	CYC	CMA-C3A-C4A	4.74	132.47	125.10
12	P1	201	CYC	C1B-C2B-C3B	-4.74	102.99	107.86
12	P3	201	CYC	C1B-C2B-C3B	-4.74	102.99	107.86
12	D8	202	CYC	C1B-C2B-C3B	-4.74	102.99	107.86
12	PA	201	CYC	C1B-C2B-C3B	-4.74	102.99	107.86
12	P9	201	CYC	C1B-C2B-C3B	-4.74	102.99	107.86
12	D9	202	CYC	C1B-NB-C4B	-4.74	104.84	110.66
12	L8	201	CYC	C2B-C1B-NB	4.74	113.88	106.97
12	PA	201	CYC	C1B-NB-C4B	-4.74	104.84	110.66
12	g7	201	CYC	C1B-NB-C4B	-4.74	104.84	110.66
12	P9	201	CYC	C1B-NB-C4B	-4.74	104.84	110.66
12	A5	201	CYC	CMA-C3A-C4A	4.74	132.46	125.10
12	C5	201	CYC	CAB-C3B-C4B	4.74	128.70	121.37
12	S1	201	CYC	OB-C4B-C3B	-4.74	123.05	128.03
12	S3	201	CYC	OB-C4B-C3B	-4.74	123.05	128.03
12	VA	201	CYC	C1B-C2B-C3B	-4.74	102.99	107.86
12	V9	201	CYC	C1B-C2B-C3B	-4.74	102.99	107.86
12	ZA	201	CYC	C2B-C1B-NB	4.74	113.88	106.97
12	R1	202	CYC	C2B-C1B-NB	4.74	113.88	106.97
12	R3	202	CYC	C2B-C1B-NB	4.74	113.88	106.97
12	Z9	201	CYC	C2B-C1B-NB	4.74	113.88	106.97
12	H1	201	CYC	C1B-C2B-C3B	-4.74	102.99	107.86
12	B8	202	CYC	C1B-C2B-C3B	-4.74	102.99	107.86
12	v7	201	CYC	C3D-C4D-ND	4.74	113.51	107.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	q7	201	CYC	CMA-C3A-C4A	4.74	132.46	125.10
12	D2	201	CYC	C1B-C2B-C3B	-4.74	102.99	107.86
12	S5	201	CYC	CMA-C3A-C4A	4.74	132.45	125.10
12	Y3	201	CYC	OB-C4B-C3B	-4.74	123.06	128.03
12	Y1	201	CYC	OB-C4B-C3B	-4.74	123.06	128.03
12	HA	201	CYC	C2B-C1B-NB	4.73	113.87	106.97
12	H9	201	CYC	C2B-C1B-NB	4.73	113.87	106.97
12	BA	202	CYC	C2B-C1B-NB	4.73	113.87	106.97
12	ZA	202	CYC	C2B-C1B-NB	4.73	113.87	106.97
12	Z9	202	CYC	C2B-C1B-NB	4.73	113.87	106.97
12	H4	202	CYC	C2B-C1B-NB	4.73	113.87	106.97
12	H8	202	CYC	C2B-C1B-NB	4.73	113.87	106.97
12	i7	201	CYC	CAB-C3B-C4B	4.73	128.69	121.37
12	J2	202	CYC	C2B-C1B-NB	4.73	113.87	106.97
12	M8	302	CYC	C1B-C2B-C3B	-4.73	103.00	107.86
12	k5	1204	CYC	C3D-C4D-ND	4.73	113.50	107.57
12	L9	202	CYC	C1B-C2B-C3B	-4.73	103.00	107.86
12	I5	201	CYC	CMA-C3A-C4A	4.73	132.44	125.10
12	I7	201	CYC	C1B-NB-C4B	-4.73	104.86	110.66
12	Y5	201	CYC	CAB-C3B-C4B	4.73	128.68	121.37
12	L4	201	CYC	C2B-C1B-NB	4.73	113.86	106.97
12	V4	201	CYC	OB-C4B-C3B	-4.73	123.06	128.03
12	Q5	201	CYC	CAB-C3B-C4B	4.73	128.68	121.37
12	C5	201	CYC	CMA-C3A-C4A	4.73	132.44	125.10
12	V3	201	CYC	C1B-C2B-C3B	-4.73	103.00	107.86
12	V1	201	CYC	C1B-C2B-C3B	-4.73	103.00	107.86
12	U7	201	CYC	OC-C1C-C2C	-4.73	122.42	126.17
12	B2	201	CYC	C2B-C1B-NB	4.72	113.86	106.97
12	o7	201	CYC	CAB-C3B-C4B	4.72	128.68	121.37
12	s7	201	CYC	CAB-C3B-C4B	4.72	128.68	121.37
12	g7	201	CYC	CAB-C3B-C4B	4.72	128.67	121.37
12	B9	202	CYC	C2B-C1B-NB	4.72	113.85	106.97
12	Y7	201	CYC	CMA-C3A-C4A	4.72	132.43	125.10
12	F8	202	CYC	C2B-C1B-NB	4.72	113.85	106.97
12	s7	201	CYC	CMA-C3A-C4A	4.72	132.43	125.10
12	T3	301	CYC	C1B-C2B-C3B	-4.72	103.01	107.86
12	T1	301	CYC	C1B-C2B-C3B	-4.72	103.01	107.86
12	M7	201	CYC	CAB-C3B-C4B	4.72	128.67	121.37
12	K5	201	CYC	CMA-C3A-C4A	4.72	132.43	125.10
12	K4	201	CYC	OB-C4B-C3B	-4.72	123.07	128.03
12	VA	201	CYC	OC-C1C-C2C	-4.72	122.42	126.17
12	V9	201	CYC	OC-C1C-C2C	-4.72	122.42	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	u7	201	CYC	C1B-NB-C4B	-4.72	104.87	110.66
12	R3	201	CYC	C1B-C2B-C3B	-4.72	103.01	107.86
12	H9	202	CYC	C1B-C2B-C3B	-4.72	103.01	107.86
12	C7	201	CYC	C1B-NB-C4B	-4.72	104.87	110.66
12	G5	201	CYC	OC-C1C-C2C	-4.72	122.42	126.17
12	TA	302	CYC	C2B-C1B-NB	4.72	113.84	106.97
12	T9	302	CYC	C2B-C1B-NB	4.72	113.84	106.97
12	u7	201	CYC	OC-C1C-C2C	-4.72	122.42	126.17
12	B6	201	CYC	C2B-C1B-NB	4.71	113.84	106.97
12	a9	901	CYC	C1B-C2B-C3B	-4.71	103.02	107.86
12	S7	201	CYC	CMA-C3A-C4A	4.71	132.42	125.10
12	I5	201	CYC	CAB-C3B-C4B	4.71	128.66	121.37
12	F9	303	CYC	C2B-C1B-NB	4.71	113.84	106.97
12	U7	201	CYC	CAB-C3B-C4B	4.71	128.66	121.37
12	B1	202	CYC	C1B-C2B-C3B	-4.71	103.02	107.86
12	e7	201	CYC	CMA-C3A-C4A	4.71	132.41	125.10
12	IA	201	CYC	OB-C4B-C3B	-4.71	123.08	128.03
12	I9	201	CYC	OB-C4B-C3B	-4.71	123.08	128.03
12	HA	202	CYC	C1B-C2B-C3B	-4.71	103.02	107.86
12	PA	201	CYC	C2B-C1B-NB	4.71	113.83	106.97
12	F4	201	CYC	C2B-C1B-NB	4.71	113.83	106.97
12	F8	201	CYC	C2B-C1B-NB	4.71	113.83	106.97
12	P9	201	CYC	C2B-C1B-NB	4.71	113.83	106.97
12	u7	201	CYC	CAB-C3B-C4B	4.71	128.65	121.37
12	JA	202	CYC	C1B-C2B-C3B	-4.71	103.02	107.86
12	J9	202	CYC	C1B-C2B-C3B	-4.71	103.02	107.86
12	I7	201	CYC	OC-C1C-C2C	-4.71	122.43	126.17
12	F6	201	CYC	C1B-C2B-C3B	-4.71	103.03	107.86
12	e5	201	CYC	C1B-NB-C4B	-4.71	104.89	110.66
12	a5	201	CYC	CMA-C3A-C4A	4.71	132.41	125.10
12	F4	202	CYC	OC-C1C-C2C	-4.71	122.43	126.17
12	a5	201	CYC	OC-C1C-C2C	-4.71	122.43	126.17
12	F8	202	CYC	OC-C1C-C2C	-4.71	122.43	126.17
12	E6	201	CYC	OB-C4B-C3B	-4.70	123.09	128.03
12	E2	201	CYC	OB-C4B-C3B	-4.70	123.09	128.03
12	W5	201	CYC	CAB-C3B-C4B	4.70	128.64	121.37
12	G7	201	CYC	CAB-C3B-C4B	4.70	128.64	121.37
12	O9	201	CYC	OB-C4B-C3B	-4.70	123.09	128.03
12	F4	202	CYC	C2B-C1B-NB	4.70	113.82	106.97
12	a5	201	CYC	C1B-NB-C4B	-4.70	104.89	110.66
12	o7	201	CYC	C1B-NB-C4B	-4.70	104.89	110.66
12	C7	201	CYC	OC-C1C-C2C	-4.70	122.44	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	e5	201	CYC	CAB-C3B-C4B	4.70	128.64	121.37
12	F3	201	CYC	C2B-C1B-NB	4.70	113.82	106.97
12	F1	201	CYC	C2B-C1B-NB	4.70	113.82	106.97
12	FA	301	CYC	C1B-C2B-C3B	-4.70	103.03	107.86
12	F9	301	CYC	C1B-C2B-C3B	-4.70	103.03	107.86
12	Q5	201	CYC	C1B-NB-C4B	-4.70	104.89	110.66
12	a5	201	CYC	CAB-C3B-C4B	4.70	128.63	121.37
12	a9	901	CYC	C2B-C1B-NB	4.70	113.81	106.97
12	N6	101	CYC	C1B-C2B-C3B	-4.70	103.04	107.86
12	j5	1202	CYC	C3D-C4D-ND	4.69	113.45	107.57
12	J2	202	CYC	C1B-NB-C4B	-4.69	104.90	110.66
12	C5	201	CYC	C1B-NB-C4B	-4.69	104.90	110.66
12	C5	201	CYC	OC-C1C-C2C	-4.69	122.44	126.17
12	Z1	202	CYC	C2B-C1B-NB	4.69	113.81	106.97
12	O5	201	CYC	CAB-C3B-C4B	4.69	128.62	121.37
12	U5	201	CYC	CAB-C3B-C4B	4.69	128.62	121.37
12	TA	301	CYC	C1B-C2B-C3B	-4.69	103.04	107.86
12	T9	301	CYC	C1B-C2B-C3B	-4.69	103.04	107.86
12	R1	201	CYC	C1B-C2B-C3B	-4.69	103.04	107.86
12	e5	201	CYC	CMA-C3A-C4A	4.69	132.38	125.10
12	j5	1201	CYC	C4D-C3D-C2D	-4.69	102.16	107.62
12	S5	201	CYC	CAB-C3B-C4B	4.69	128.62	121.37
12	H1	201	CYC	C2B-C1B-NB	4.68	113.80	106.97
12	E7	201	CYC	OC-C1C-C2C	-4.68	122.45	126.17
12	o7	201	CYC	OC-C1C-C2C	-4.68	122.45	126.17
12	SA	201	CYC	OB-C4B-C3B	-4.68	123.11	128.03
12	S9	201	CYC	OB-C4B-C3B	-4.68	123.11	128.03
12	B3	202	CYC	C1B-C2B-C3B	-4.68	103.05	107.86
12	P4	201	CYC	OB-C4B-C3B	-4.68	123.11	128.03
12	P8	201	CYC	OB-C4B-C3B	-4.68	123.11	128.03
12	DA	201	CYC	C1B-C2B-C3B	-4.68	103.05	107.86
12	Z1	202	CYC	C1B-C2B-C3B	-4.68	103.05	107.86
12	a7	201	CYC	CAB-C3B-C4B	4.68	128.61	121.37
12	XA	201	CYC	C2B-C1B-NB	4.68	113.79	106.97
12	H3	202	CYC	C2B-C1B-NB	4.68	113.79	106.97
12	Z4	301	CYC	C2B-C1B-NB	4.68	113.79	106.97
12	F9	302	CYC	C2B-C1B-NB	4.68	113.79	106.97
12	A5	201	CYC	OC-C1C-C2C	-4.68	122.45	126.17
12	J4	201	CYC	C1B-C2B-C3B	-4.68	103.06	107.86
12	J8	201	CYC	C1B-C2B-C3B	-4.68	103.06	107.86
12	Z3	201	CYC	C2B-C1B-NB	4.68	113.79	106.97
12	ZA	202	CYC	C1B-NB-C4B	-4.68	104.92	110.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Z9	202	CYC	C1B-NB-C4B	-4.68	104.92	110.66
12	J6	202	CYC	C2B-C1B-NB	4.68	113.78	106.97
12	L4	202	CYC	C1B-C2B-C3B	-4.68	103.06	107.86
12	I5	201	CYC	C1B-NB-C4B	-4.68	104.92	110.66
12	c5	201	CYC	CAB-C3B-C4B	4.68	128.60	121.37
12	A7	201	CYC	CAB-C3B-C4B	4.67	128.60	121.37
12	I7	201	CYC	CAB-C3B-C4B	4.67	128.59	121.37
12	F2	201	CYC	C1B-C2B-C3B	-4.67	103.06	107.86
12	j5	1201	CYC	CMA-C3A-C4A	4.67	132.35	125.10
12	W5	201	CYC	OC-C1C-C2C	-4.67	122.46	126.17
12	U4	201	CYC	C1B-C2B-C3B	-4.67	103.06	107.86
12	U8	201	CYC	C1B-C2B-C3B	-4.67	103.06	107.86
12	OA	201	CYC	OB-C4B-C3B	-4.67	123.13	128.03
12	M7	201	CYC	C1B-NB-C4B	-4.67	104.93	110.66
12	W7	201	CYC	CAB-C3B-C4B	4.67	128.59	121.37
12	R5	201	CYC	C3D-C4D-ND	4.67	113.42	107.57
12	C7	201	CYC	CAB-C3B-C4B	4.67	128.59	121.37
12	e7	201	CYC	CAB-C3B-C4B	4.67	128.59	121.37
12	C3	201	CYC	OB-C4B-C3B	-4.67	123.13	128.03
12	C1	201	CYC	OB-C4B-C3B	-4.67	123.13	128.03
12	LA	202	CYC	C1B-NB-C4B	-4.66	104.94	110.66
12	RA	201	CYC	C1B-C2B-C3B	-4.66	103.07	107.86
12	R9	201	CYC	C1B-C2B-C3B	-4.66	103.07	107.86
12	L6	201	CYC	C2B-C1B-NB	4.66	113.77	106.97
12	E7	201	CYC	CAB-C3B-C4B	4.66	128.58	121.37
12	L4	202	CYC	C2B-C1B-NB	4.66	113.77	106.97
12	X9	201	CYC	C2B-C1B-NB	4.66	113.77	106.97
12	k5	1201	CYC	CHD-C4C-NC	4.66	131.45	125.63
12	LA	202	CYC	C2B-C1B-NB	4.66	113.76	106.97
12	k7	201	CYC	CAB-C3B-C4B	4.66	128.57	121.37
12	F6	202	CYC	C2B-C1B-NB	4.66	113.76	106.97
12	J3	202	CYC	C1B-C2B-C3B	-4.66	103.07	107.86
12	Z3	201	CYC	C1B-C2B-C3B	-4.66	103.07	107.86
12	H4	201	CYC	C1B-C2B-C3B	-4.66	103.07	107.86
12	aA	901	CYC	C1B-C2B-C3B	-4.66	103.07	107.86
12	Y7	201	CYC	CAB-C3B-C4B	4.66	128.57	121.37
12	m7	201	CYC	C1B-NB-C4B	-4.66	104.95	110.66
12	M8	301	CYC	OC-C1C-C2C	-4.66	122.47	126.17
12	M5	201	CYC	CAB-C3B-C4B	4.65	128.57	121.37
12	P1	201	CYC	C2B-C1B-NB	4.65	113.75	106.97
12	P3	201	CYC	C2B-C1B-NB	4.65	113.75	106.97
12	O7	201	CYC	CAB-C3B-C4B	4.65	128.57	121.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Q1	201	CYC	OB-C4B-C3B	-4.65	123.14	128.03
12	Q3	201	CYC	OB-C4B-C3B	-4.65	123.14	128.03
12	j5	1201	CYC	CHD-C4C-NC	4.65	131.44	125.63
12	D9	201	CYC	C1B-C2B-C3B	-4.65	103.08	107.86
12	Y7	201	CYC	OC-C1C-C2C	-4.65	122.47	126.17
12	U4	201	CYC	C2B-C1B-NB	4.65	113.75	106.97
12	U8	201	CYC	C2B-C1B-NB	4.65	113.75	106.97
12	H8	201	CYC	C1B-C2B-C3B	-4.65	103.08	107.86
12	O4	201	CYC	C2B-C1B-NB	4.65	113.75	106.97
12	O8	201	CYC	C2B-C1B-NB	4.65	113.75	106.97
12	O7	201	CYC	OC-C1C-C2C	-4.65	122.48	126.17
12	Z8	301	CYC	C1B-C2B-C3B	-4.65	103.08	107.86
12	K7	201	CYC	CAB-C3B-C4B	4.65	128.56	121.37
12	D3	202	CYC	C1B-C2B-C3B	-4.65	103.08	107.86
12	M4	301	CYC	C1B-C2B-C3B	-4.65	103.08	107.86
12	D1	202	CYC	C1B-C2B-C3B	-4.65	103.08	107.86
12	I5	201	CYC	OC-C1C-C2C	-4.65	122.48	126.17
12	k5	1201	CYC	C4D-C3D-C2D	-4.64	102.22	107.62
12	N2	101	CYC	C1B-NB-C4B	-4.64	104.96	110.66
12	N6	101	CYC	C1B-NB-C4B	-4.64	104.96	110.66
12	L9	202	CYC	C2B-C1B-NB	4.64	113.74	106.97
12	Z8	301	CYC	OC-C1C-C2C	-4.64	122.48	126.17
12	c7	201	CYC	CAB-C3B-C4B	4.64	128.55	121.37
12	E3	201	CYC	OB-C4B-C3B	-4.64	123.16	128.03
12	E1	201	CYC	OB-C4B-C3B	-4.64	123.16	128.03
12	T3	302	CYC	C2B-C1B-NB	4.64	113.73	106.97
12	T1	302	CYC	C2B-C1B-NB	4.64	113.73	106.97
12	L6	201	CYC	C1B-NB-C4B	-4.64	104.97	110.66
12	H1	201	CYC	C1B-NB-C4B	-4.64	104.97	110.66
12	FA	301	CYC	OC-C1C-C2C	-4.64	122.48	126.17
12	O5	201	CYC	OC-C1C-C2C	-4.64	122.48	126.17
12	F9	301	CYC	OC-C1C-C2C	-4.64	122.48	126.17
12	N2	101	CYC	C2B-C1B-NB	4.64	113.73	106.97
12	L9	202	CYC	C1B-NB-C4B	-4.64	104.97	110.66
12	G5	201	CYC	CAB-C3B-C4B	4.64	128.54	121.37
12	BA	201	CYC	C2B-C1B-NB	4.64	113.73	106.97
12	B9	201	CYC	C2B-C1B-NB	4.64	113.73	106.97
12	Z3	201	CYC	C1B-NB-C4B	-4.64	104.97	110.66
12	Z1	202	CYC	C1B-NB-C4B	-4.64	104.97	110.66
12	V3	201	CYC	C2B-C1B-NB	4.64	113.73	106.97
12	V1	201	CYC	C2B-C1B-NB	4.64	113.73	106.97
12	BA	201	CYC	C1B-C2B-C3B	-4.63	103.10	107.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B9	201	CYC	C1B-C2B-C3B	-4.63	103.10	107.86
12	JA	202	CYC	OC-C1C-C2C	-4.63	122.49	126.17
12	J9	202	CYC	OC-C1C-C2C	-4.63	122.49	126.17
12	F2	202	CYC	C2B-C1B-NB	4.63	113.72	106.97
12	k5	1201	CYC	CMA-C3A-C4A	4.63	132.29	125.10
12	q7	201	CYC	CAB-C3B-C4B	4.63	128.53	121.37
12	W1	201	CYC	OB-C4B-C3B	-4.63	123.16	128.03
12	H9	202	CYC	C2B-C1B-NB	4.63	113.72	106.97
12	A5	201	CYC	CAB-C3B-C4B	4.63	128.53	121.37
12	RA	201	CYC	OC-C1C-C2C	-4.63	122.49	126.17
12	R9	201	CYC	OC-C1C-C2C	-4.63	122.49	126.17
12	J6	202	CYC	C1B-NB-C4B	-4.63	104.98	110.66
12	Q5	201	CYC	OC-C1C-C2C	-4.63	122.49	126.17
12	P9	201	CYC	OC-C1C-C2C	-4.63	122.49	126.17
12	H2	201	CYC	C1B-C2B-C3B	-4.63	103.11	107.86
12	S7	201	CYC	CAB-C3B-C4B	4.63	128.53	121.37
12	K5	201	CYC	CAB-C3B-C4B	4.63	128.53	121.37
12	J4	201	CYC	C2B-C1B-NB	4.63	113.71	106.97
12	J8	201	CYC	C2B-C1B-NB	4.63	113.71	106.97
12	H6	201	CYC	C1B-C2B-C3B	-4.63	103.11	107.86
12	N6	101	CYC	C2B-C1B-NB	4.63	113.71	106.97
12	F2	201	CYC	OC-C1C-C2C	-4.62	122.50	126.17
12	L2	201	CYC	C2B-C1B-NB	4.62	113.71	106.97
12	L3	202	CYC	C2B-C1B-NB	4.62	113.71	106.97
12	L2	201	CYC	C1B-NB-C4B	-4.62	104.98	110.66
12	e7	201	CYC	C1B-NB-C4B	-4.62	104.98	110.66
12	q7	201	CYC	C1B-NB-C4B	-4.62	104.98	110.66
12	W4	201	CYC	C2B-C1B-NB	4.62	113.71	106.97
12	W8	201	CYC	C2B-C1B-NB	4.62	113.71	106.97
12	R3	201	CYC	C2B-C1B-NB	4.62	113.71	106.97
12	U4	201	CYC	C1B-NB-C4B	-4.62	104.99	110.66
12	U8	201	CYC	C1B-NB-C4B	-4.62	104.99	110.66
12	HA	202	CYC	C2B-C1B-NB	4.62	113.70	106.97
12	Z8	301	CYC	C2B-C1B-NB	4.62	113.70	106.97
12	aA	902	CYC	C2B-C1B-NB	4.62	113.70	106.97
12	BA	201	CYC	C1B-NB-C4B	-4.62	104.99	110.66
12	B9	201	CYC	C1B-NB-C4B	-4.62	104.99	110.66
12	H6	201	CYC	C2B-C1B-NB	4.62	113.70	106.97
12	X1	201	CYC	C2B-C1B-NB	4.62	113.70	106.97
12	S4	202	CYC	C2B-C1B-NB	4.62	113.70	106.97
12	L6	201	CYC	C1B-C2B-C3B	-4.62	103.12	107.86
12	M8	301	CYC	C1B-C2B-C3B	-4.62	103.12	107.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	J3	202	CYC	C2B-C1B-NB	4.61	113.69	106.97
12	B1	202	CYC	C2B-C1B-NB	4.61	113.69	106.97
12	aA	901	CYC	C2B-C1B-NB	4.61	113.69	106.97
12	B3	202	CYC	C2B-C1B-NB	4.61	113.69	106.97
12	XA	201	CYC	C1B-NB-C4B	-4.61	105.00	110.66
12	X9	201	CYC	C1B-NB-C4B	-4.61	105.00	110.66
12	D2	202	CYC	C2B-C1B-NB	4.61	113.69	106.97
12	E5	201	CYC	CAB-C3B-C4B	4.61	128.50	121.37
12	H3	202	CYC	C1B-NB-C4B	-4.61	105.00	110.66
12	S7	201	CYC	C1B-NB-C4B	-4.61	105.00	110.66
12	R1	201	CYC	C2B-C1B-NB	4.61	113.69	106.97
12	FA	301	CYC	CMD-C2D-C1D	4.61	132.32	125.62
12	F9	301	CYC	CMD-C2D-C1D	4.61	132.32	125.62
12	P1	201	CYC	C1B-NB-C4B	-4.61	105.01	110.66
12	P3	201	CYC	C1B-NB-C4B	-4.61	105.01	110.66
12	W3	201	CYC	OB-C4B-C3B	-4.61	123.19	128.03
12	D4	202	CYC	C2B-C1B-NB	4.61	113.68	106.97
12	s7	201	CYC	C1B-NB-C4B	-4.60	105.01	110.66
12	T3	301	CYC	C2B-C1B-NB	4.60	113.68	106.97
12	T1	301	CYC	C2B-C1B-NB	4.60	113.68	106.97
12	TA	301	CYC	OC-C1C-C2C	-4.60	122.51	126.17
12	T9	301	CYC	OC-C1C-C2C	-4.60	122.51	126.17
12	H8	201	CYC	CMD-C2D-C1D	4.60	132.31	125.62
12	Y7	201	CYC	C1B-NB-C4B	-4.60	105.01	110.66
12	TA	301	CYC	C2B-C1B-NB	4.60	113.68	106.97
12	T9	301	CYC	C2B-C1B-NB	4.60	113.68	106.97
12	M5	201	CYC	C1B-NB-C4B	-4.60	105.01	110.66
12	B4	202	CYC	C2B-C1B-NB	4.60	113.67	106.97
12	D6	202	CYC	C2B-C1B-NB	4.60	113.67	106.97
12	X9	201	CYC	CMD-C2D-C1D	4.60	132.30	125.62
12	X3	201	CYC	C2B-C1B-NB	4.60	113.67	106.97
12	H4	201	CYC	CMD-C2D-C1D	4.59	132.30	125.62
12	L4	202	CYC	C1B-NB-C4B	-4.59	105.02	110.66
12	VA	201	CYC	C2B-C1B-NB	4.59	113.66	106.97
12	V9	201	CYC	C2B-C1B-NB	4.59	113.66	106.97
12	S4	202	CYC	C1B-NB-C4B	-4.59	105.03	110.66
12	H2	201	CYC	C2B-C1B-NB	4.59	113.66	106.97
12	D2	201	CYC	CMD-C2D-C1D	4.59	132.29	125.62
12	M4	301	CYC	C2B-C1B-NB	4.59	113.66	106.97
12	H4	201	CYC	OC-C1C-C2C	-4.59	122.52	126.17
12	e7	201	CYC	OC-C1C-C2C	-4.59	122.52	126.17
12	H8	201	CYC	OC-C1C-C2C	-4.59	122.52	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	WA	201	CYC	OB-C4B-C3B	-4.59	123.21	128.03
12	a9	901	CYC	C1B-NB-C4B	-4.59	105.03	110.66
12	M8	301	CYC	C2B-C1B-NB	4.59	113.66	106.97
12	B8	202	CYC	C2B-C1B-NB	4.59	113.66	106.97
12	DA	201	CYC	CMD-C2D-C1D	4.59	132.28	125.62
12	B4	202	CYC	OC-C1C-C2C	-4.58	122.53	126.17
12	PA	201	CYC	OC-C1C-C2C	-4.58	122.53	126.17
12	J4	201	CYC	C1B-NB-C4B	-4.58	105.04	110.66
12	J8	201	CYC	C1B-NB-C4B	-4.58	105.04	110.66
12	XA	201	CYC	CMD-C2D-C1D	4.58	132.28	125.62
12	W9	201	CYC	OB-C4B-C3B	-4.58	123.22	128.03
12	HA	202	CYC	OC-C1C-C2C	-4.58	122.53	126.17
12	H9	202	CYC	OC-C1C-C2C	-4.58	122.53	126.17
12	H4	201	CYC	C2B-C1B-NB	4.58	113.64	106.97
12	D8	202	CYC	C2B-C1B-NB	4.58	113.64	106.97
12	H8	201	CYC	C2B-C1B-NB	4.58	113.64	106.97
12	B3	202	CYC	C1B-NB-C4B	-4.58	105.04	110.66
12	F3	201	CYC	C1B-NB-C4B	-4.58	105.04	110.66
12	F1	201	CYC	C1B-NB-C4B	-4.58	105.04	110.66
12	G7	201	CYC	OC-C1C-C2C	-4.57	122.54	126.17
12	M8	302	CYC	OC-C1C-C2C	-4.57	122.54	126.17
12	Z3	201	CYC	CMD-C2D-C1D	4.57	132.27	125.62
12	Z1	202	CYC	CMD-C2D-C1D	4.57	132.27	125.62
12	B4	202	CYC	C1B-NB-C4B	-4.57	105.05	110.66
12	M8	302	CYC	C2B-C1B-NB	4.57	113.63	106.97
12	H6	201	CYC	C1B-NB-C4B	-4.57	105.05	110.66
12	DA	202	CYC	C2B-C1B-NB	4.57	113.63	106.97
12	D3	202	CYC	OC-C1C-C2C	-4.57	122.54	126.17
12	D1	202	CYC	OC-C1C-C2C	-4.57	122.54	126.17
12	ZA	202	CYC	OC-C1C-C2C	-4.57	122.54	126.17
12	B8	202	CYC	OC-C1C-C2C	-4.57	122.54	126.17
12	Z9	202	CYC	OC-C1C-C2C	-4.57	122.54	126.17
12	X1	201	CYC	C1B-NB-C4B	-4.57	105.06	110.66
12	D9	201	CYC	CMD-C2D-C1D	4.57	132.26	125.62
12	FA	301	CYC	C2B-C1B-NB	4.57	113.63	106.97
12	F9	301	CYC	C2B-C1B-NB	4.57	113.63	106.97
12	L4	202	CYC	OC-C1C-C2C	-4.57	122.54	126.17
12	F6	201	CYC	OC-C1C-C2C	-4.57	122.54	126.17
12	k7	201	CYC	C1B-NB-C4B	-4.57	105.06	110.66
12	S5	201	CYC	C1B-NB-C4B	-4.56	105.06	110.66
12	B1	202	CYC	C1B-NB-C4B	-4.56	105.06	110.66
12	M4	301	CYC	OC-C1C-C2C	-4.56	122.55	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	F4	202	CYC	C1B-NB-C4B	-4.56	105.07	110.66
12	F8	202	CYC	C1B-NB-C4B	-4.56	105.07	110.66
12	V3	201	CYC	C1B-NB-C4B	-4.56	105.07	110.66
12	V1	201	CYC	C1B-NB-C4B	-4.56	105.07	110.66
12	RA	201	CYC	C2B-C1B-NB	4.55	113.61	106.97
12	R9	201	CYC	C2B-C1B-NB	4.55	113.61	106.97
12	D1	202	CYC	C2B-C1B-NB	4.55	113.61	106.97
12	O4	201	CYC	C1B-NB-C4B	-4.55	105.07	110.66
12	O8	201	CYC	C1B-NB-C4B	-4.55	105.07	110.66
12	D9	202	CYC	C2B-C1B-NB	4.55	113.60	106.97
12	A7	201	CYC	OC-C1C-C2C	-4.55	122.55	126.17
12	L2	201	CYC	C1B-C2B-C3B	-4.55	103.18	107.86
12	M8	302	CYC	C1B-NB-C4B	-4.55	105.08	110.66
12	F2	201	CYC	CMD-C2D-C1D	4.55	132.23	125.62
12	L3	202	CYC	C1B-NB-C4B	-4.55	105.08	110.66
12	B8	202	CYC	C1B-NB-C4B	-4.55	105.08	110.66
12	aA	902	CYC	C1B-NB-C4B	-4.55	105.08	110.66
12	JA	202	CYC	C2B-C1B-NB	4.55	113.60	106.97
12	J9	202	CYC	C2B-C1B-NB	4.55	113.60	106.97
12	JA	202	CYC	C1B-NB-C4B	-4.54	105.08	110.66
12	J9	202	CYC	C1B-NB-C4B	-4.54	105.08	110.66
12	HA	202	CYC	C1B-NB-C4B	-4.54	105.08	110.66
12	X3	201	CYC	C1B-NB-C4B	-4.54	105.08	110.66
12	P1	201	CYC	CMD-C2D-C1D	4.54	132.22	125.62
12	R4	201	CYC	CMD-C2D-C1D	4.54	132.22	125.62
12	R8	201	CYC	CMD-C2D-C1D	4.54	132.22	125.62
12	J3	202	CYC	C1B-NB-C4B	-4.54	105.09	110.66
12	H6	201	CYC	OC-C1C-C2C	-4.54	122.56	126.17
12	EA	201	CYC	CMD-C2D-C1D	4.54	132.22	125.62
12	E9	201	CYC	CMD-C2D-C1D	4.54	132.22	125.62
12	B3	202	CYC	OC-C1C-C2C	-4.54	122.56	126.17
12	P3	201	CYC	CMD-C2D-C1D	4.54	132.21	125.62
12	BA	201	CYC	OC-C1C-C2C	-4.54	122.57	126.17
12	B9	201	CYC	OC-C1C-C2C	-4.54	122.57	126.17
12	D3	202	CYC	C2B-C1B-NB	4.54	113.58	106.97
12	D3	202	CYC	CMD-C2D-C1D	4.54	132.21	125.62
12	D1	202	CYC	CMD-C2D-C1D	4.54	132.21	125.62
12	VA	201	CYC	C1B-NB-C4B	-4.53	105.10	110.66
12	T1	301	CYC	CMD-C2D-C1D	4.53	132.21	125.62
12	T3	301	CYC	OC-C1C-C2C	-4.53	122.57	126.17
12	T1	301	CYC	OC-C1C-C2C	-4.53	122.57	126.17
12	F6	201	CYC	C2B-C1B-NB	4.53	113.58	106.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	T3	301	CYC	C1B-NB-C4B	-4.53	105.10	110.66
12	T1	301	CYC	C1B-NB-C4B	-4.53	105.10	110.66
12	G4	201	CYC	CMD-C2D-C1D	4.53	132.20	125.62
12	G8	201	CYC	CMD-C2D-C1D	4.53	132.20	125.62
12	a9	901	CYC	OC-C1C-C2C	-4.53	122.57	126.17
12	D6	201	CYC	CMD-C2D-C1D	4.53	132.20	125.62
12	R3	201	CYC	C1B-NB-C4B	-4.52	105.11	110.66
12	H2	201	CYC	C1B-NB-C4B	-4.52	105.11	110.66
12	X9	201	CYC	OC-C1C-C2C	-4.52	122.58	126.17
12	aA	901	CYC	C1B-NB-C4B	-4.52	105.11	110.66
12	J4	201	CYC	OC-C1C-C2C	-4.52	122.58	126.17
12	GA	201	CYC	CMB-C2B-C1B	4.52	129.66	124.16
12	G9	201	CYC	CMB-C2B-C1B	4.52	129.66	124.16
12	V9	201	CYC	C1B-NB-C4B	-4.52	105.12	110.66
12	F2	201	CYC	C2B-C1B-NB	4.52	113.55	106.97
12	H2	201	CYC	CMD-C2D-C1D	4.52	132.18	125.62
12	H6	201	CYC	CMD-C2D-C1D	4.52	132.18	125.62
12	W4	201	CYC	CMD-C2D-C1D	4.52	132.18	125.62
12	DA	201	CYC	C2B-C1B-NB	4.51	113.55	106.97
12	T3	301	CYC	CMD-C2D-C1D	4.51	132.18	125.62
12	J3	202	CYC	CMD-C2D-C1D	4.51	132.18	125.62
12	aA	901	CYC	CMD-C2D-C1D	4.51	132.18	125.62
12	D1	202	CYC	C1B-NB-C4B	-4.51	105.12	110.66
12	XA	201	CYC	OC-C1C-C2C	-4.51	122.58	126.17
12	s7	201	CYC	OC-C1C-C2C	-4.51	122.58	126.17
12	R1	201	CYC	OC-C1C-C2C	-4.51	122.59	126.17
12	F3	201	CYC	OC-C1C-C2C	-4.51	122.59	126.17
12	R3	201	CYC	OC-C1C-C2C	-4.51	122.59	126.17
12	S4	202	CYC	OC-C1C-C2C	-4.51	122.59	126.17
12	VA	201	CYC	CMD-C2D-C1D	4.51	132.18	125.62
12	V9	201	CYC	CMD-C2D-C1D	4.51	132.18	125.62
12	M4	301	CYC	C1B-NB-C4B	-4.51	105.12	110.66
12	H9	202	CYC	C1B-NB-C4B	-4.51	105.12	110.66
12	Z4	301	CYC	CMD-C2D-C1D	4.51	132.17	125.62
12	W8	201	CYC	CMD-C2D-C1D	4.51	132.17	125.62
12	M8	301	CYC	C1B-NB-C4B	-4.51	105.13	110.66
12	R1	201	CYC	C1B-NB-C4B	-4.51	105.13	110.66
12	B4	202	CYC	CMD-C2D-C1D	4.51	132.17	125.62
12	R1	201	CYC	CMD-C2D-C1D	4.50	132.16	125.62
12	R3	201	CYC	CMD-C2D-C1D	4.50	132.16	125.62
12	J4	201	CYC	CMD-C2D-C1D	4.50	132.16	125.62
12	J8	201	CYC	CMD-C2D-C1D	4.50	132.16	125.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B1	202	CYC	CMD-C2D-C1D	4.50	132.16	125.62
12	M8	301	CYC	CMD-C2D-C1D	4.50	132.16	125.62
12	Z8	301	CYC	CMD-C2D-C1D	4.50	132.16	125.62
12	D9	201	CYC	C2B-C1B-NB	4.49	113.52	106.97
12	L2	201	CYC	CMD-C2D-C1D	4.49	132.15	125.62
12	F6	201	CYC	CMD-C2D-C1D	4.49	132.15	125.62
12	S4	202	CYC	CMD-C2D-C1D	4.49	132.15	125.62
12	N2	101	CYC	OC-C1C-C2C	-4.49	122.60	126.17
12	J8	201	CYC	OC-C1C-C2C	-4.49	122.60	126.17
12	J3	202	CYC	OC-C1C-C2C	-4.49	122.60	126.17
12	aA	901	CYC	OC-C1C-C2C	-4.49	122.60	126.17
12	RA	201	CYC	CMD-C2D-C1D	4.49	132.15	125.62
12	K2	201	CYC	CMB-C2B-C1B	4.49	129.62	124.16
12	D6	201	CYC	C2B-C1B-NB	4.49	113.51	106.97
12	L6	201	CYC	CMD-C2D-C1D	4.49	132.14	125.62
12	D2	202	CYC	C4D-C3D-C2D	-4.49	102.40	107.62
12	B1	202	CYC	OC-C1C-C2C	-4.48	122.61	126.17
12	Z8	301	CYC	C1B-NB-C4B	-4.48	105.16	110.66
12	Z4	301	CYC	OC-C1C-C2C	-4.48	122.61	126.17
12	LA	202	CYC	CMD-C2D-C1D	4.48	132.13	125.62
12	L9	202	CYC	CMD-C2D-C1D	4.48	132.13	125.62
12	m7	201	CYC	OC-C1C-C2C	-4.48	122.61	126.17
12	F1	201	CYC	OC-C1C-C2C	-4.48	122.61	126.17
12	ZA	202	CYC	CMD-C2D-C1D	4.48	132.13	125.62
12	Z4	301	CYC	C1B-NB-C4B	-4.48	105.16	110.66
12	M4	301	CYC	CMD-C2D-C1D	4.48	132.13	125.62
12	Z9	202	CYC	CMD-C2D-C1D	4.48	132.13	125.62
12	Y9	201	CYC	CMB-C2B-C1B	4.48	129.61	124.16
12	A2	201	CYC	CMB-C2B-C1B	4.48	129.61	124.16
12	D3	201	CYC	C4D-C3D-C2D	-4.48	102.41	107.62
12	D1	201	CYC	C4D-C3D-C2D	-4.48	102.41	107.62
12	P8	201	CYC	CMD-C2D-C1D	4.48	132.13	125.62
12	U4	201	CYC	CMD-C2D-C1D	4.48	132.13	125.62
12	U8	201	CYC	CMD-C2D-C1D	4.48	132.13	125.62
12	J6	202	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	B8	202	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	J2	202	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	F4	202	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	F8	202	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	F3	201	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	T4	201	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	T8	201	CYC	CMD-C2D-C1D	4.47	132.12	125.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	F1	201	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	F2	201	CYC	C1B-NB-C4B	-4.47	105.17	110.66
12	KA	201	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	K9	201	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	A6	201	CYC	CMB-C2B-C1B	4.47	129.60	124.16
12	DA	201	CYC	C1B-NB-C4B	-4.47	105.17	110.66
12	O4	202	CYC	C4D-C3D-C2D	-4.47	102.42	107.62
12	O8	202	CYC	C4D-C3D-C2D	-4.47	102.42	107.62
12	W8	201	CYC	C1B-NB-C4B	-4.47	105.17	110.66
12	X3	201	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	R9	201	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	X1	201	CYC	CMD-C2D-C1D	4.47	132.12	125.62
12	JA	202	CYC	CMD-C2D-C1D	4.47	132.11	125.62
12	P4	201	CYC	CMD-C2D-C1D	4.47	132.11	125.62
12	J9	202	CYC	CMD-C2D-C1D	4.47	132.11	125.62
12	D3	202	CYC	C1B-NB-C4B	-4.47	105.18	110.66
12	A1	201	CYC	CMD-C2D-C1D	4.47	132.11	125.62
12	A3	201	CYC	CMD-C2D-C1D	4.47	132.11	125.62
12	H8	201	CYC	C1B-NB-C4B	-4.47	105.18	110.66
12	Z3	202	CYC	C4D-C3D-C2D	-4.47	102.42	107.62
12	Z1	201	CYC	C4D-C3D-C2D	-4.47	102.42	107.62
12	D8	202	CYC	CMD-C2D-C1D	4.46	132.11	125.62
12	Z3	201	CYC	OC-C1C-C2C	-4.46	122.62	126.17
12	Z1	202	CYC	OC-C1C-C2C	-4.46	122.62	126.17
12	V1	201	CYC	CMD-C2D-C1D	4.46	132.11	125.62
12	aA	902	CYC	OC-C1C-C2C	-4.46	122.62	126.17
12	H8	202	CYC	C4D-C3D-C2D	-4.46	102.43	107.62
12	P1	201	CYC	OC-C1C-C2C	-4.46	122.63	126.17
12	P3	201	CYC	OC-C1C-C2C	-4.46	122.63	126.17
12	B3	202	CYC	CMD-C2D-C1D	4.46	132.10	125.62
12	H2	201	CYC	OC-C1C-C2C	-4.46	122.63	126.17
12	U4	201	CYC	OC-C1C-C2C	-4.46	122.63	126.17
12	U8	201	CYC	OC-C1C-C2C	-4.46	122.63	126.17
12	K6	201	CYC	CMB-C2B-C1B	4.46	129.58	124.16
12	V3	201	CYC	CMD-C2D-C1D	4.46	132.10	125.62
12	D4	202	CYC	CMD-C2D-C1D	4.46	132.10	125.62
12	W4	201	CYC	C1B-NB-C4B	-4.46	105.19	110.66
12	R4	201	CYC	CMB-C2B-C1B	4.46	129.58	124.16
12	R8	201	CYC	CMB-C2B-C1B	4.46	129.58	124.16
12	E8	201	CYC	CMD-C2D-C1D	4.46	132.09	125.62
12	PA	201	CYC	CMD-C2D-C1D	4.45	132.09	125.62
12	P9	201	CYC	CMD-C2D-C1D	4.45	132.09	125.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	K6	201	CYC	CMD-C2D-C1D	4.45	132.09	125.62
12	D2	201	CYC	C2B-C1B-NB	4.45	113.46	106.97
12	TA	301	CYC	CMD-C2D-C1D	4.45	132.09	125.62
12	T9	301	CYC	CMD-C2D-C1D	4.45	132.09	125.62
12	Y3	201	CYC	CMD-C2D-C1D	4.45	132.09	125.62
12	Y1	201	CYC	CMD-C2D-C1D	4.45	132.09	125.62
12	X4	201	CYC	CMB-C2B-C1B	4.45	129.57	124.16
12	X8	201	CYC	CMB-C2B-C1B	4.45	129.57	124.16
12	FA	301	CYC	C1B-NB-C4B	-4.45	105.20	110.66
12	F9	301	CYC	C1B-NB-C4B	-4.45	105.20	110.66
12	K2	201	CYC	CMD-C2D-C1D	4.45	132.09	125.62
12	LA	202	CYC	OC-C1C-C2C	-4.45	122.64	126.17
12	L9	202	CYC	OC-C1C-C2C	-4.45	122.64	126.17
12	YA	201	CYC	CMB-C2B-C1B	4.45	129.57	124.16
12	F6	201	CYC	C1B-NB-C4B	-4.45	105.20	110.66
12	G3	201	CYC	CMD-C2D-C1D	4.45	132.08	125.62
12	G1	201	CYC	CMD-C2D-C1D	4.45	132.08	125.62
12	TA	301	CYC	C1B-NB-C4B	-4.45	105.20	110.66
12	T9	301	CYC	C1B-NB-C4B	-4.45	105.20	110.66
12	D6	202	CYC	C4D-C3D-C2D	-4.45	102.44	107.62
12	RA	201	CYC	C1B-NB-C4B	-4.45	105.20	110.66
12	R9	201	CYC	C1B-NB-C4B	-4.45	105.20	110.66
12	M8	302	CYC	CMD-C2D-C1D	4.45	132.08	125.62
12	N6	101	CYC	OC-C1C-C2C	-4.44	122.64	126.17
12	N2	101	CYC	CMD-C2D-C1D	4.44	132.08	125.62
12	H4	201	CYC	C1B-NB-C4B	-4.44	105.21	110.66
12	I4	201	CYC	C3D-C4D-ND	4.44	113.14	107.57
12	I8	201	CYC	C3D-C4D-ND	4.44	113.14	107.57
12	H4	202	CYC	C4D-C3D-C2D	-4.44	102.45	107.62
12	D9	201	CYC	C1B-NB-C4B	-4.44	105.21	110.66
12	D4	202	CYC	OC-C1C-C2C	-4.44	122.64	126.17
12	D8	202	CYC	OC-C1C-C2C	-4.44	122.64	126.17
12	N4	201	CYC	CMB-C2B-C1B	4.44	129.56	124.16
12	N8	201	CYC	CMB-C2B-C1B	4.44	129.56	124.16
12	S1	201	CYC	CMD-C2D-C1D	4.44	132.07	125.62
12	S3	201	CYC	CMD-C2D-C1D	4.44	132.07	125.62
12	E4	201	CYC	CMD-C2D-C1D	4.44	132.07	125.62
12	C1	201	CYC	CMB-C2B-C1B	4.44	129.56	124.16
12	CA	201	CYC	CMD-C2D-C1D	4.44	132.07	125.62
12	C9	201	CYC	CMD-C2D-C1D	4.44	132.07	125.62
12	O4	201	CYC	OC-C1C-C2C	-4.44	122.65	126.17
12	O8	201	CYC	OC-C1C-C2C	-4.44	122.65	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	C6	201	CYC	CMD-C2D-C1D	4.44	132.07	125.62
12	G6	201	CYC	CMD-C2D-C1D	4.43	132.06	125.62
12	H3	202	CYC	CMD-C2D-C1D	4.43	132.06	125.62
12	G2	201	CYC	CMD-C2D-C1D	4.43	132.06	125.62
12	L3	202	CYC	CMD-C2D-C1D	4.43	132.06	125.62
12	aA	902	CYC	CMD-C2D-C1D	4.43	132.06	125.62
12	V3	202	CYC	C4D-C3D-C2D	-4.43	102.47	107.62
12	V1	202	CYC	C4D-C3D-C2D	-4.43	102.47	107.62
12	L3	202	CYC	OC-C1C-C2C	-4.43	122.65	126.17
12	C2	201	CYC	CMD-C2D-C1D	4.43	132.05	125.62
12	D6	201	CYC	OC-C1C-C2C	-4.43	122.65	126.17
12	C4	201	CYC	CMD-C2D-C1D	4.43	132.05	125.62
12	C8	201	CYC	CMD-C2D-C1D	4.43	132.05	125.62
12	TA	302	CYC	C4D-C3D-C2D	-4.43	102.47	107.62
12	T9	302	CYC	C4D-C3D-C2D	-4.43	102.47	107.62
12	H3	202	CYC	OC-C1C-C2C	-4.42	122.66	126.17
12	E6	201	CYC	CMD-C2D-C1D	4.42	132.04	125.62
12	A1	201	CYC	CMB-C2B-C1B	4.42	129.54	124.16
12	A3	201	CYC	CMB-C2B-C1B	4.42	129.54	124.16
12	N6	101	CYC	CMD-C2D-C1D	4.42	132.04	125.62
12	W3	201	CYC	CMD-C2D-C1D	4.42	132.04	125.62
12	W1	201	CYC	CMD-C2D-C1D	4.42	132.04	125.62
12	E2	201	CYC	CMD-C2D-C1D	4.42	132.04	125.62
12	H2	202	CYC	C4D-C3D-C2D	-4.42	102.48	107.62
12	H6	202	CYC	C4D-C3D-C2D	-4.42	102.48	107.62
12	Q1	201	CYC	CMD-C2D-C1D	4.41	132.03	125.62
12	Q3	201	CYC	CMD-C2D-C1D	4.41	132.03	125.62
12	C3	201	CYC	CMB-C2B-C1B	4.41	129.53	124.16
12	N4	201	CYC	CMD-C2D-C1D	4.41	132.03	125.62
12	N8	201	CYC	CMD-C2D-C1D	4.41	132.03	125.62
12	H1	201	CYC	CMD-C2D-C1D	4.41	132.03	125.62
12	UA	201	CYC	CMD-C2D-C1D	4.41	132.03	125.62
12	U9	201	CYC	CMD-C2D-C1D	4.41	132.03	125.62
12	AA	201	CYC	CMD-C2D-C1D	4.41	132.03	125.62
12	A9	201	CYC	CMD-C2D-C1D	4.41	132.03	125.62
12	I3	201	CYC	CMB-C2B-C1B	4.41	129.52	124.16
12	I1	201	CYC	CMB-C2B-C1B	4.41	129.52	124.16
12	O1	201	CYC	CMB-C2B-C1B	4.41	129.52	124.16
12	O3	201	CYC	CMB-C2B-C1B	4.41	129.52	124.16
12	BA	201	CYC	CMD-C2D-C1D	4.41	132.02	125.62
12	B9	201	CYC	CMD-C2D-C1D	4.41	132.02	125.62
12	O4	201	CYC	CMD-C2D-C1D	4.41	132.02	125.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	O8	201	CYC	CMD-C2D-C1D	4.41	132.02	125.62
12	D4	202	CYC	C1B-NB-C4B	-4.40	105.26	110.66
12	EA	201	CYC	CMB-C2B-C1B	4.40	129.51	124.16
12	E9	201	CYC	CMB-C2B-C1B	4.40	129.51	124.16
12	C3	201	CYC	CMD-C2D-C1D	4.40	132.01	125.62
12	C1	201	CYC	CMD-C2D-C1D	4.40	132.01	125.62
12	K4	201	CYC	CMD-C2D-C1D	4.40	132.01	125.62
12	K8	201	CYC	CMD-C2D-C1D	4.40	132.01	125.62
12	SA	201	CYC	CMD-C2D-C1D	4.39	132.01	125.62
12	S9	201	CYC	CMD-C2D-C1D	4.39	132.01	125.62
12	U3	201	CYC	CMD-C2D-C1D	4.39	132.01	125.62
12	U1	201	CYC	CMD-C2D-C1D	4.39	132.01	125.62
12	YA	201	CYC	CMD-C2D-C1D	4.39	132.00	125.62
12	Y9	201	CYC	CMD-C2D-C1D	4.39	132.00	125.62
12	C9	201	CYC	CMB-C2B-C1B	4.39	129.50	124.16
12	D8	202	CYC	C1B-NB-C4B	-4.39	105.27	110.66
12	Q4	201	CYC	C4D-C3D-C2D	-4.39	102.51	107.62
12	Q8	201	CYC	C4D-C3D-C2D	-4.39	102.51	107.62
12	E2	201	CYC	CMB-C2B-C1B	4.39	129.50	124.16
12	E3	201	CYC	CMD-C2D-C1D	4.39	132.00	125.62
12	A4	201	CYC	CMD-C2D-C1D	4.39	132.00	125.62
12	E1	201	CYC	CMD-C2D-C1D	4.39	132.00	125.62
12	A8	201	CYC	CMD-C2D-C1D	4.39	132.00	125.62
12	K3	201	CYC	CMD-C2D-C1D	4.39	132.00	125.62
12	K1	201	CYC	CMD-C2D-C1D	4.39	132.00	125.62
12	D4	201	CYC	C4D-C3D-C2D	-4.39	102.51	107.62
12	D8	201	CYC	C4D-C3D-C2D	-4.39	102.51	107.62
12	B3	201	CYC	C4D-C3D-C2D	-4.39	102.51	107.62
12	B1	201	CYC	C4D-C3D-C2D	-4.39	102.51	107.62
12	O1	201	CYC	CMD-C2D-C1D	4.39	132.00	125.62
12	O3	201	CYC	CMD-C2D-C1D	4.39	132.00	125.62
12	W4	201	CYC	OC-C1C-C2C	-4.39	122.69	126.17
12	W8	201	CYC	OC-C1C-C2C	-4.39	122.69	126.17
12	H1	201	CYC	OC-C1C-C2C	-4.39	122.69	126.17
12	Y3	201	CYC	CMB-C2B-C1B	4.39	129.49	124.16
12	Y1	201	CYC	CMB-C2B-C1B	4.39	129.49	124.16
12	T4	201	CYC	CMB-C2B-C1B	4.38	129.49	124.16
12	T8	201	CYC	CMB-C2B-C1B	4.38	129.49	124.16
12	JA	201	CYC	C4D-C3D-C2D	-4.38	102.52	107.62
12	J9	201	CYC	C4D-C3D-C2D	-4.38	102.52	107.62
12	U3	201	CYC	CMB-C2B-C1B	4.38	129.49	124.16
12	U1	201	CYC	CMB-C2B-C1B	4.38	129.49	124.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	X4	201	CYC	CMD-C2D-C1D	4.38	131.99	125.62
12	X8	201	CYC	CMD-C2D-C1D	4.38	131.99	125.62
12	IA	201	CYC	CMB-C2B-C1B	4.38	129.49	124.16
12	I9	201	CYC	CMB-C2B-C1B	4.38	129.49	124.16
12	A6	201	CYC	CMD-C2D-C1D	4.38	131.98	125.62
12	CA	201	CYC	CMB-C2B-C1B	4.38	129.48	124.16
12	W3	201	CYC	C3D-C4D-ND	4.38	113.06	107.57
12	W1	201	CYC	C3D-C4D-ND	4.38	113.06	107.57
12	IA	201	CYC	CMD-C2D-C1D	4.38	131.98	125.62
12	I5	201	CYC	C2B-C1B-NB	4.38	113.35	106.97
12	C6	201	CYC	CMB-C2B-C1B	4.38	129.48	124.16
12	VA	202	CYC	C4D-C3D-C2D	-4.37	102.53	107.62
12	V9	202	CYC	C4D-C3D-C2D	-4.37	102.53	107.62
12	G1	201	CYC	CMB-C2B-C1B	4.37	129.48	124.16
12	T3	302	CYC	C4D-C3D-C2D	-4.37	102.53	107.62
12	T1	302	CYC	C4D-C3D-C2D	-4.37	102.53	107.62
12	E4	201	CYC	CMB-C2B-C1B	4.37	129.48	124.16
12	HA	202	CYC	CMD-C2D-C1D	4.37	131.97	125.62
12	L6	201	CYC	OC-C1C-C2C	-4.37	122.70	126.17
12	BA	202	CYC	C4D-C3D-C2D	-4.37	102.53	107.62
12	B9	202	CYC	C4D-C3D-C2D	-4.37	102.53	107.62
12	A6	201	CYC	OC-C1C-NC	4.37	130.08	124.93
12	SA	201	CYC	C3D-C4D-ND	4.37	113.04	107.57
12	S9	201	CYC	C3D-C4D-ND	4.37	113.04	107.57
12	L4	202	CYC	CMD-C2D-C1D	4.37	131.97	125.62
12	I6	201	CYC	CMB-C2B-C1B	4.37	129.47	124.16
12	P9	202	CYC	C4D-C3D-C2D	-4.36	102.54	107.62
12	E8	201	CYC	C3D-C4D-ND	4.36	113.04	107.57
12	KA	201	CYC	CMB-C2B-C1B	4.36	129.47	124.16
12	K9	201	CYC	CMB-C2B-C1B	4.36	129.47	124.16
12	C2	201	CYC	CMB-C2B-C1B	4.36	129.47	124.16
12	WA	201	CYC	CMD-C2D-C1D	4.36	131.96	125.62
12	W9	201	CYC	CMD-C2D-C1D	4.36	131.96	125.62
12	H3	201	CYC	C4D-C3D-C2D	-4.36	102.54	107.62
12	H1	202	CYC	C4D-C3D-C2D	-4.36	102.54	107.62
12	I9	201	CYC	CMD-C2D-C1D	4.36	131.96	125.62
12	V3	201	CYC	OC-C1C-C2C	-4.36	122.70	126.17
12	V1	201	CYC	OC-C1C-C2C	-4.36	122.70	126.17
12	A2	201	CYC	CMD-C2D-C1D	4.36	131.96	125.62
12	j5	1201	CYC	CAB-C3B-C4B	4.36	128.11	121.37
12	A4	201	CYC	CMB-C2B-C1B	4.36	129.46	124.16
12	A8	201	CYC	CMB-C2B-C1B	4.36	129.46	124.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	UA	201	CYC	CMB-C2B-C1B	4.36	129.46	124.16
12	U9	201	CYC	CMB-C2B-C1B	4.36	129.46	124.16
12	J8	202	CYC	C4D-C3D-C2D	-4.36	102.55	107.62
12	Y5	201	CYC	C2D-C1D-ND	4.36	113.37	107.43
12	D6	201	CYC	C1B-NB-C4B	-4.36	105.31	110.66
12	I3	201	CYC	CMD-C2D-C1D	4.35	131.95	125.62
12	I1	201	CYC	CMD-C2D-C1D	4.35	131.95	125.62
12	U5	201	CYC	C2B-C1B-NB	4.35	113.32	106.97
12	OA	201	CYC	CMB-C2B-C1B	4.35	129.46	124.16
12	O9	201	CYC	CMB-C2B-C1B	4.35	129.46	124.16
12	C5	201	CYC	C2B-C1B-NB	4.35	113.31	106.97
12	G3	201	CYC	CMB-C2B-C1B	4.35	129.45	124.16
12	DA	201	CYC	OC-C1C-C2C	-4.35	122.71	126.17
12	D9	201	CYC	OC-C1C-C2C	-4.35	122.71	126.17
12	E8	201	CYC	CMB-C2B-C1B	4.35	129.45	124.16
12	U4	202	CYC	C4D-C3D-C2D	-4.35	102.56	107.62
12	U8	202	CYC	C4D-C3D-C2D	-4.35	102.56	107.62
12	B2	201	CYC	C4D-C3D-C2D	-4.35	102.56	107.62
12	E6	201	CYC	CMB-C2B-C1B	4.35	129.45	124.16
12	D2	201	CYC	OC-C1C-C2C	-4.35	122.72	126.17
12	H9	202	CYC	CMD-C2D-C1D	4.35	131.94	125.62
12	B6	201	CYC	C4D-C3D-C2D	-4.35	102.56	107.62
12	q7	201	CYC	C2D-C1D-ND	4.35	113.36	107.43
12	LA	201	CYC	C4D-C3D-C2D	-4.35	102.56	107.62
12	I2	201	CYC	CMD-C2D-C1D	4.35	131.94	125.62
12	a9	901	CYC	CMD-C2D-C1D	4.35	131.94	125.62
12	L9	201	CYC	C4D-C3D-C2D	-4.35	102.56	107.62
12	QA	201	CYC	CMB-C2B-C1B	4.34	129.44	124.16
12	I2	201	CYC	CMB-C2B-C1B	4.34	129.44	124.16
12	PA	202	CYC	C4D-C3D-C2D	-4.34	102.57	107.62
12	F2	202	CYC	C4D-C3D-C2D	-4.34	102.57	107.62
12	N4	201	CYC	C3D-C4D-ND	4.34	113.01	107.57
12	N8	201	CYC	C3D-C4D-ND	4.34	113.01	107.57
12	k7	201	CYC	C2D-C1D-ND	4.34	113.35	107.43
12	QA	201	CYC	CMD-C2D-C1D	4.34	131.93	125.62
12	Q9	201	CYC	CMD-C2D-C1D	4.34	131.93	125.62
12	L2	201	CYC	OC-C1C-C2C	-4.34	122.72	126.17
12	Q9	201	CYC	CMB-C2B-C1B	4.34	129.44	124.16
12	X3	201	CYC	OC-C1C-C2C	-4.34	122.72	126.17
12	X1	201	CYC	OC-C1C-C2C	-4.34	122.72	126.17
12	I4	201	CYC	CMD-C2D-C1D	4.34	131.92	125.62
12	I8	201	CYC	CMD-C2D-C1D	4.34	131.92	125.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G4	201	CYC	CMB-C2B-C1B	4.34	129.44	124.16
12	I4	201	CYC	CMB-C2B-C1B	4.34	129.44	124.16
12	I8	201	CYC	CMB-C2B-C1B	4.34	129.44	124.16
12	D2	201	CYC	C1B-NB-C4B	-4.34	105.34	110.66
12	J4	202	CYC	C4D-C3D-C2D	-4.34	102.57	107.62
12	L1	201	CYC	C4D-C3D-C2D	-4.34	102.57	107.62
12	c5	201	CYC	C2D-C1D-ND	4.34	113.34	107.43
12	I6	201	CYC	CMD-C2D-C1D	4.33	131.92	125.62
12	GA	201	CYC	CMD-C2D-C1D	4.33	131.91	125.62
12	G9	201	CYC	CMD-C2D-C1D	4.33	131.91	125.62
12	E4	201	CYC	C3D-C4D-ND	4.33	113.00	107.57
12	O5	201	CYC	C2B-C1B-NB	4.33	113.28	106.97
12	OA	201	CYC	CMD-C2D-C1D	4.33	131.91	125.62
12	O9	201	CYC	CMD-C2D-C1D	4.33	131.91	125.62
12	D2	201	CYC	C3D-C4D-ND	4.33	113.00	107.57
12	A2	201	CYC	OC-C1C-NC	4.33	130.03	124.93
12	RA	202	CYC	C4D-C3D-C2D	-4.33	102.58	107.62
12	R9	202	CYC	C4D-C3D-C2D	-4.33	102.58	107.62
12	EA	201	CYC	C3D-C4D-ND	4.33	112.99	107.57
12	E9	201	CYC	C3D-C4D-ND	4.33	112.99	107.57
12	K8	201	CYC	CMB-C2B-C1B	4.33	129.42	124.16
12	B4	201	CYC	C4D-C3D-C2D	-4.32	102.59	107.62
12	K4	201	CYC	CMB-C2B-C1B	4.32	129.41	124.16
12	J6	202	CYC	OC-C1C-C2C	-4.32	122.74	126.17
12	AA	201	CYC	C3D-C4D-ND	4.32	112.98	107.57
12	A9	201	CYC	C3D-C4D-ND	4.32	112.98	107.57
12	G6	201	CYC	C3D-C4D-ND	4.32	112.98	107.57
12	G8	201	CYC	CMB-C2B-C1B	4.32	129.41	124.16
12	O1	201	CYC	C3D-C4D-ND	4.32	112.98	107.57
12	O3	201	CYC	C3D-C4D-ND	4.32	112.98	107.57
12	E5	201	CYC	C2D-C1D-ND	4.32	113.32	107.43
12	K1	201	CYC	CMB-C2B-C1B	4.32	129.41	124.16
12	I2	201	CYC	C3D-C4D-ND	4.31	112.98	107.57
12	HA	201	CYC	C4D-C3D-C2D	-4.31	102.60	107.62
12	H9	201	CYC	C4D-C3D-C2D	-4.31	102.60	107.62
12	S5	201	CYC	C2D-C1D-ND	4.31	113.31	107.43
12	P1	202	CYC	CHB-C4A-NA	-4.31	115.64	124.95
12	P3	202	CYC	CHB-C4A-NA	-4.31	115.64	124.95
12	g7	201	CYC	C2D-C1D-ND	4.31	113.31	107.43
12	L3	201	CYC	C4D-C3D-C2D	-4.31	102.60	107.62
12	P3	202	CYC	C4D-C3D-C2D	-4.31	102.60	107.62
12	D2	202	CYC	CHB-C4A-NA	-4.31	115.64	124.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	PA	202	CYC	CHB-C4A-NA	-4.31	115.65	124.95
12	P9	202	CYC	CHB-C4A-NA	-4.31	115.65	124.95
12	k5	1201	CYC	CAB-C3B-C4B	4.31	128.03	121.37
12	Q5	201	CYC	C2D-C1D-ND	4.30	113.30	107.43
12	F9	303	CYC	C4D-C3D-C2D	-4.30	102.61	107.62
12	G2	201	CYC	C3D-C4D-ND	4.30	112.96	107.57
12	V8	201	CYC	C3D-C4D-ND	4.30	112.96	107.57
12	u7	201	CYC	C2D-C1D-ND	4.30	113.30	107.43
12	SA	201	CYC	CMB-C2B-C1B	4.30	129.39	124.16
12	S9	201	CYC	CMB-C2B-C1B	4.30	129.39	124.16
12	E3	201	CYC	C3D-C4D-ND	4.30	112.96	107.57
12	E1	201	CYC	C3D-C4D-ND	4.30	112.96	107.57
12	K5	201	CYC	C2D-C1D-ND	4.30	113.30	107.43
12	P1	202	CYC	C4D-C3D-C2D	-4.30	102.61	107.62
12	R1	202	CYC	C4D-C3D-C2D	-4.30	102.62	107.62
12	R3	202	CYC	C4D-C3D-C2D	-4.30	102.62	107.62
12	F4	201	CYC	C4D-C3D-C2D	-4.30	102.62	107.62
12	F8	201	CYC	C4D-C3D-C2D	-4.30	102.62	107.62
12	F9	302	CYC	C4D-C3D-C2D	-4.30	102.62	107.62
12	B8	201	CYC	C4D-C3D-C2D	-4.30	102.62	107.62
12	I6	201	CYC	C3D-C4D-ND	4.30	112.96	107.57
12	Q1	201	CYC	C3D-C4D-ND	4.29	112.95	107.57
12	Q3	201	CYC	C3D-C4D-ND	4.29	112.95	107.57
12	D6	201	CYC	C3D-C4D-ND	4.29	112.95	107.57
12	DA	202	CYC	C4D-C3D-C2D	-4.29	102.62	107.62
12	W4	202	CYC	C4D-C3D-C2D	-4.29	102.62	107.62
12	Q7	201	CYC	C2D-C1D-ND	4.29	113.28	107.43
12	K3	201	CYC	CMB-C2B-C1B	4.29	129.38	124.16
12	X3	202	CYC	C4D-C3D-C2D	-4.29	102.63	107.62
12	X1	202	CYC	C4D-C3D-C2D	-4.29	102.63	107.62
12	a7	201	CYC	C2B-C1B-NB	4.29	113.22	106.97
12	i7	201	CYC	C2B-C1B-NB	4.29	113.22	106.97
12	Q1	201	CYC	CMB-C2B-C1B	4.29	129.37	124.16
12	Q3	201	CYC	CMB-C2B-C1B	4.29	129.37	124.16
12	D6	202	CYC	CHB-C4A-NA	-4.29	115.69	124.95
12	g7	201	CYC	C2B-C1B-NB	4.29	113.22	106.97
12	W5	201	CYC	C2D-C1D-ND	4.29	113.28	107.43
12	DA	201	CYC	C3D-C4D-ND	4.28	112.94	107.57
12	F4	201	CYC	CHB-C4A-NA	-4.28	115.70	124.95
12	F8	201	CYC	CHB-C4A-NA	-4.28	115.70	124.95
12	A4	201	CYC	C3D-C4D-ND	4.28	112.94	107.57
12	A8	201	CYC	C3D-C4D-ND	4.28	112.94	107.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	J6	201	CYC	C4D-C3D-C2D	-4.28	102.64	107.62
12	O7	201	CYC	C2B-C1B-NB	4.28	113.21	106.97
12	T3	302	CYC	CHB-C4A-NA	-4.28	115.71	124.95
12	T1	302	CYC	CHB-C4A-NA	-4.28	115.71	124.95
12	E6	201	CYC	C3D-C4D-ND	4.28	112.94	107.57
12	L4	201	CYC	C4D-C3D-C2D	-4.28	102.64	107.62
12	L8	201	CYC	C4D-C3D-C2D	-4.28	102.64	107.62
12	OA	201	CYC	OC-C1C-NC	4.28	129.97	124.93
12	O9	201	CYC	OC-C1C-NC	4.28	129.97	124.93
12	R4	201	CYC	C3D-C4D-ND	4.27	112.93	107.57
12	R8	201	CYC	C3D-C4D-ND	4.27	112.93	107.57
12	D9	201	CYC	C3D-C4D-ND	4.27	112.93	107.57
12	U7	201	CYC	C2B-C1B-NB	4.27	113.20	106.97
12	a7	201	CYC	C2D-C1D-ND	4.27	113.26	107.43
12	L9	201	CYC	CHB-C4A-NA	-4.27	115.72	124.95
12	M5	201	CYC	C2D-C1D-ND	4.27	113.26	107.43
12	S1	201	CYC	C3D-C4D-ND	4.27	112.93	107.57
12	S3	201	CYC	C3D-C4D-ND	4.27	112.93	107.57
12	W7	201	CYC	C2B-C1B-NB	4.27	113.20	106.97
12	BA	202	CYC	CHB-C4A-NA	-4.27	115.73	124.95
12	Y4	201	CYC	CHB-C4A-NA	-4.27	115.73	124.95
12	Y8	201	CYC	CHB-C4A-NA	-4.27	115.73	124.95
12	B9	202	CYC	CHB-C4A-NA	-4.27	115.73	124.95
12	V4	201	CYC	C3D-C4D-ND	4.27	112.92	107.57
12	W8	202	CYC	C4D-C3D-C2D	-4.27	102.65	107.62
12	CA	201	CYC	C3D-C4D-ND	4.27	112.92	107.57
12	C9	201	CYC	C3D-C4D-ND	4.27	112.92	107.57
12	E3	201	CYC	CMB-C2B-C1B	4.27	129.35	124.16
12	E1	201	CYC	CMB-C2B-C1B	4.27	129.35	124.16
12	U7	201	CYC	C2D-C1D-ND	4.27	113.25	107.43
12	A1	201	CYC	C3D-C4D-ND	4.27	112.92	107.57
12	A3	201	CYC	C3D-C4D-ND	4.27	112.92	107.57
12	J2	202	CYC	OC-C1C-C2C	-4.27	122.78	126.17
12	C4	201	CYC	CMB-C2B-C1B	4.27	129.35	124.16
12	C8	201	CYC	CMB-C2B-C1B	4.27	129.35	124.16
12	C4	201	CYC	C3D-C4D-ND	4.27	112.92	107.57
12	C8	201	CYC	C3D-C4D-ND	4.27	112.92	107.57
12	CA	201	CYC	OC-C1C-NC	4.27	129.96	124.93
12	C9	201	CYC	OC-C1C-NC	4.27	129.96	124.93
12	D9	202	CYC	C4D-C3D-C2D	-4.27	102.66	107.62
12	LA	201	CYC	CHB-C4A-NA	-4.27	115.74	124.95
12	C2	201	CYC	C3D-C4D-ND	4.27	112.92	107.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	I9	201	CYC	C3D-C4D-ND	4.26	112.92	107.57
12	o7	201	CYC	C2D-C1D-ND	4.26	113.24	107.43
12	K4	201	CYC	OC-C1C-NC	4.26	129.95	124.93
12	K8	201	CYC	OC-C1C-NC	4.26	129.95	124.93
12	K5	201	CYC	C2B-C1B-NB	4.26	113.18	106.97
12	V4	201	CYC	CMD-C2D-C1D	4.26	131.81	125.62
12	V8	201	CYC	CMD-C2D-C1D	4.26	131.81	125.62
12	E7	201	CYC	C2D-C1D-ND	4.26	113.24	107.43
12	F6	202	CYC	C4D-C3D-C2D	-4.26	102.67	107.62
12	D3	201	CYC	CHB-C4A-NA	-4.26	115.76	124.95
12	D1	201	CYC	CHB-C4A-NA	-4.26	115.76	124.95
12	Z3	201	CYC	C3D-C4D-ND	4.26	112.91	107.57
12	Z1	202	CYC	C3D-C4D-ND	4.26	112.91	107.57
12	c7	201	CYC	C2B-C1B-NB	4.26	113.17	106.97
12	WA	201	CYC	CMB-C2B-C1B	4.26	129.34	124.16
12	W9	201	CYC	CMB-C2B-C1B	4.26	129.34	124.16
12	K4	201	CYC	C3D-C4D-ND	4.25	112.90	107.57
12	K8	201	CYC	C3D-C4D-ND	4.25	112.90	107.57
12	W5	201	CYC	C2B-C1B-NB	4.25	113.17	106.97
12	S4	201	CYC	CHB-C4A-NA	-4.25	115.77	124.95
12	G6	201	CYC	CMB-C2B-C1B	4.25	129.33	124.16
12	O7	201	CYC	C2D-C1D-ND	4.25	113.23	107.43
12	E2	201	CYC	C3D-C4D-ND	4.25	112.90	107.57
12	DA	202	CYC	CHB-C4A-NA	-4.25	115.77	124.95
12	V4	201	CYC	CMB-C2B-C1B	4.25	129.33	124.16
12	D9	202	CYC	CHB-C4A-NA	-4.25	115.78	124.95
12	K2	201	CYC	OC-C1C-NC	4.25	129.94	124.93
12	E5	201	CYC	C2B-C1B-NB	4.25	113.16	106.97
12	Y8	201	CYC	C4D-C3D-C2D	-4.25	102.68	107.62
12	Z4	301	CYC	C3D-C4D-ND	4.25	112.89	107.57
12	V3	202	CYC	CHB-C4A-NA	-4.25	115.78	124.95
12	V1	202	CYC	CHB-C4A-NA	-4.25	115.78	124.95
12	R3	202	CYC	CHB-C4A-NA	-4.25	115.78	124.95
12	I3	201	CYC	C3D-C4D-ND	4.25	112.89	107.57
12	C6	201	CYC	C3D-C4D-ND	4.25	112.89	107.57
12	I1	201	CYC	C3D-C4D-ND	4.25	112.89	107.57
12	F1	202	CYC	C4D-C3D-C2D	-4.25	102.68	107.62
12	O4	202	CYC	CHB-C4A-NA	-4.25	115.78	124.95
12	O8	202	CYC	CHB-C4A-NA	-4.25	115.78	124.95
12	e5	201	CYC	C2B-C1B-NB	4.25	113.16	106.97
12	JA	201	CYC	CHB-C4A-NA	-4.24	115.78	124.95
12	J9	201	CYC	CHB-C4A-NA	-4.24	115.78	124.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	IA	201	CYC	C3D-C4D-ND	4.24	112.89	107.57
12	Z8	301	CYC	C3D-C4D-ND	4.24	112.89	107.57
12	S8	201	CYC	CHB-C4A-NA	-4.24	115.79	124.95
12	I7	201	CYC	C2D-C1D-ND	4.24	113.21	107.43
12	I7	201	CYC	C2B-C1B-NB	4.24	113.15	106.97
12	UA	201	CYC	C3D-C4D-ND	4.24	112.88	107.57
12	U9	201	CYC	C3D-C4D-ND	4.24	112.88	107.57
12	U5	201	CYC	C2D-C1D-ND	4.24	113.21	107.43
12	U4	202	CYC	CHB-C4A-NA	-4.24	115.80	124.95
12	U8	202	CYC	CHB-C4A-NA	-4.24	115.80	124.95
12	XA	202	CYC	C4D-C3D-C2D	-4.24	102.69	107.62
12	a5	201	CYC	C2B-C1B-NB	4.24	113.14	106.97
12	L8	201	CYC	CHB-C4A-NA	-4.24	115.80	124.95
12	G2	201	CYC	CMB-C2B-C1B	4.24	129.31	124.16
12	HA	202	CYC	C3D-C4D-ND	4.24	112.88	107.57
12	B3	201	CYC	CHB-C4A-NA	-4.23	115.81	124.95
12	B1	201	CYC	CHB-C4A-NA	-4.23	115.81	124.95
12	J2	201	CYC	C4D-C3D-C2D	-4.23	102.69	107.62
12	O5	201	CYC	C2D-C1D-ND	4.23	113.20	107.43
12	ZA	201	CYC	C4D-C3D-C2D	-4.23	102.69	107.62
12	R1	202	CYC	CHB-C4A-NA	-4.23	115.82	124.95
12	e5	201	CYC	C2D-C1D-ND	4.23	113.20	107.43
12	B4	201	CYC	CHB-C4A-NA	-4.23	115.82	124.95
12	Q8	201	CYC	CHB-C4A-NA	-4.23	115.82	124.95
12	Q4	201	CYC	CHB-C4A-NA	-4.23	115.82	124.95
12	C3	201	CYC	C3D-C4D-ND	4.23	112.87	107.57
12	C1	201	CYC	C3D-C4D-ND	4.23	112.87	107.57
12	V8	201	CYC	CMB-C2B-C1B	4.23	129.30	124.16
12	W1	201	CYC	OC-C1C-NC	4.23	129.91	124.93
12	B2	201	CYC	CHB-C4A-NA	-4.23	115.83	124.95
12	AA	201	CYC	CMB-C2B-C1B	4.23	129.30	124.16
12	A9	201	CYC	CMB-C2B-C1B	4.23	129.30	124.16
12	E7	201	CYC	C2B-C1B-NB	4.23	113.13	106.97
12	V4	201	CYC	OC-C1C-NC	4.22	129.91	124.93
12	V8	201	CYC	OC-C1C-NC	4.22	129.91	124.93
12	e7	201	CYC	C2D-C1D-ND	4.22	113.19	107.43
12	Y5	201	CYC	C2B-C1B-NB	4.22	113.12	106.97
12	Y4	201	CYC	C4D-C3D-C2D	-4.22	102.70	107.62
12	F3	202	CYC	C4D-C3D-C2D	-4.22	102.71	107.62
12	XA	202	CYC	CHB-C4A-NA	-4.22	115.83	124.95
12	X9	202	CYC	C4D-C3D-C2D	-4.22	102.71	107.62
12	J3	201	CYC	CHB-C4A-NA	-4.22	115.84	124.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	H2	202	CYC	CHB-C4A-NA	-4.22	115.84	124.95
12	L2	201	CYC	C3D-C4D-ND	4.22	112.86	107.57
12	o7	201	CYC	C2B-C1B-NB	4.22	113.12	106.97
12	B6	201	CYC	CHB-C4A-NA	-4.22	115.84	124.95
12	W7	201	CYC	C2D-C1D-ND	4.22	113.18	107.43
12	G4	201	CYC	C3D-C4D-ND	4.22	112.86	107.57
12	X1	202	CYC	CHB-C4A-NA	-4.22	115.84	124.95
12	L4	201	CYC	CHB-C4A-NA	-4.22	115.84	124.95
12	F9	302	CYC	CHB-C4A-NA	-4.22	115.84	124.95
12	H9	202	CYC	C3D-C4D-ND	4.22	112.86	107.57
12	A7	201	CYC	C2B-C1B-NB	4.22	113.11	106.97
12	J4	202	CYC	CHB-C4A-NA	-4.21	115.85	124.95
12	J8	202	CYC	CHB-C4A-NA	-4.21	115.85	124.95
12	E4	201	CYC	OC-C1C-NC	4.21	129.90	124.93
12	E8	201	CYC	OC-C1C-NC	4.21	129.90	124.93
12	c5	201	CYC	C2B-C1B-NB	4.21	113.11	106.97
12	K7	201	CYC	C2D-C1D-ND	4.21	113.18	107.43
12	J1	201	CYC	CHB-C4A-NA	-4.21	115.85	124.95
12	B8	201	CYC	CHB-C4A-NA	-4.21	115.85	124.95
12	A7	201	CYC	C2D-C1D-ND	4.21	113.18	107.43
12	F9	303	CYC	CHB-C4A-NA	-4.21	115.86	124.95
12	Z9	201	CYC	C4D-C3D-C2D	-4.21	102.72	107.62
12	T9	302	CYC	CHB-C4A-NA	-4.21	115.86	124.95
12	W3	201	CYC	CMB-C2B-C1B	4.21	129.28	124.16
12	W1	201	CYC	CMB-C2B-C1B	4.21	129.28	124.16
12	K7	201	CYC	C2B-C1B-NB	4.21	113.11	106.97
12	O1	201	CYC	OC-C1C-NC	4.21	129.89	124.93
12	O3	201	CYC	OC-C1C-NC	4.21	129.89	124.93
12	C7	201	CYC	C2B-C1B-NB	4.21	113.11	106.97
12	F3	202	CYC	CHB-C4A-NA	-4.21	115.86	124.95
12	F1	202	CYC	CHB-C4A-NA	-4.21	115.86	124.95
12	X3	202	CYC	CHB-C4A-NA	-4.21	115.86	124.95
12	L3	201	CYC	CHB-C4A-NA	-4.21	115.86	124.95
12	L1	201	CYC	CHB-C4A-NA	-4.21	115.86	124.95
12	H3	201	CYC	CHB-C4A-NA	-4.21	115.86	124.95
12	H1	202	CYC	CHB-C4A-NA	-4.21	115.86	124.95
12	X9	202	CYC	CHB-C4A-NA	-4.21	115.86	124.95
12	P4	201	CYC	CMB-C2B-C1B	4.21	129.28	124.16
12	u7	201	CYC	C2B-C1B-NB	4.21	113.10	106.97
12	s7	201	CYC	C2D-C1D-ND	4.21	113.17	107.43
12	L2	202	CYC	CHB-C4A-NA	-4.21	115.87	124.95
12	S4	201	CYC	C4D-C3D-C2D	-4.21	102.73	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	S8	201	CYC	C4D-C3D-C2D	-4.21	102.73	107.62
12	H8	202	CYC	CHB-C4A-NA	-4.20	115.87	124.95
12	L2	202	CYC	C4D-C3D-C2D	-4.20	102.73	107.62
12	L6	202	CYC	C4D-C3D-C2D	-4.20	102.73	107.62
12	B1	202	CYC	C4A-C3A-C2A	-4.20	101.70	106.48
12	C7	201	CYC	C2D-C1D-ND	4.20	113.16	107.43
12	aA	902	CYC	C3D-C4D-ND	4.20	112.84	107.57
12	K3	201	CYC	OC-C1C-NC	4.20	129.88	124.93
12	W3	201	CYC	OC-C1C-NC	4.20	129.88	124.93
12	K1	201	CYC	OC-C1C-NC	4.20	129.88	124.93
12	H6	202	CYC	CHB-C4A-NA	-4.20	115.88	124.95
12	S7	201	CYC	C2D-C1D-ND	4.20	113.16	107.43
12	Q5	201	CYC	C2B-C1B-NB	4.20	113.09	106.97
12	Q7	201	CYC	C2B-C1B-NB	4.20	113.09	106.97
12	RA	202	CYC	CHB-C4A-NA	-4.20	115.88	124.95
12	D4	201	CYC	CHB-C4A-NA	-4.20	115.88	124.95
12	D8	201	CYC	CHB-C4A-NA	-4.20	115.88	124.95
12	R9	202	CYC	CHB-C4A-NA	-4.20	115.88	124.95
12	H1	202	CYC	CMA-C3A-C4A	4.20	131.62	125.10
12	Q9	201	CYC	C3D-C4D-ND	4.20	112.83	107.57
12	L3	202	CYC	C3D-C4D-ND	4.20	112.83	107.57
12	H6	202	CYC	CMA-C3A-C4A	4.20	131.62	125.10
12	A4	201	CYC	OC-C1C-NC	4.20	129.88	124.93
12	A8	201	CYC	OC-C1C-NC	4.20	129.88	124.93
12	K6	201	CYC	C3D-C4D-ND	4.20	112.83	107.57
12	B8	202	CYC	C3D-C4D-ND	4.20	112.83	107.57
12	B3	202	CYC	C4A-C3A-C2A	-4.20	101.72	106.48
12	BA	202	CYC	CMA-C3A-C4A	4.19	131.61	125.10
12	B9	202	CYC	CMA-C3A-C4A	4.19	131.61	125.10
12	L6	202	CYC	CHB-C4A-NA	-4.19	115.89	124.95
12	i7	201	CYC	C2D-C1D-ND	4.19	113.15	107.43
12	AA	201	CYC	OC-C1C-NC	4.19	129.87	124.93
12	A9	201	CYC	OC-C1C-NC	4.19	129.87	124.93
12	Y7	201	CYC	C2D-C1D-ND	4.19	113.15	107.43
12	TA	302	CYC	CHB-C4A-NA	-4.19	115.90	124.95
12	m7	201	CYC	C2D-C1D-ND	4.19	113.15	107.43
12	X4	201	CYC	C3D-C4D-ND	4.19	112.82	107.57
12	X8	201	CYC	C3D-C4D-ND	4.19	112.82	107.57
12	M7	201	CYC	C2B-C1B-NB	4.19	113.08	106.97
12	H4	202	CYC	CHB-C4A-NA	-4.19	115.91	124.95
12	G5	201	CYC	C2B-C1B-NB	4.19	113.08	106.97
12	m7	201	CYC	C2B-C1B-NB	4.19	113.08	106.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	L6	201	CYC	C3D-C4D-ND	4.19	112.82	107.57
12	P8	201	CYC	CMB-C2B-C1B	4.19	129.25	124.16
12	G7	201	CYC	C2D-C1D-ND	4.19	113.14	107.43
12	S1	201	CYC	CMB-C2B-C1B	4.19	129.25	124.16
12	J6	201	CYC	CHB-C4A-NA	-4.19	115.91	124.95
12	OA	201	CYC	C3D-C4D-ND	4.19	112.82	107.57
12	G8	201	CYC	C3D-C4D-ND	4.19	112.82	107.57
12	O9	201	CYC	C3D-C4D-ND	4.19	112.82	107.57
12	C3	201	CYC	OC-C1C-NC	4.19	129.87	124.93
12	A5	201	CYC	C2D-C1D-ND	4.19	113.14	107.43
12	D1	202	CYC	C4A-C3A-C2A	-4.19	101.72	106.48
12	K6	201	CYC	OC-C1C-NC	4.19	129.86	124.93
12	T4	201	CYC	C3D-C4D-ND	4.18	112.81	107.57
12	T8	201	CYC	C3D-C4D-ND	4.18	112.81	107.57
12	G5	201	CYC	C2D-C1D-ND	4.18	113.14	107.43
12	J3	202	CYC	C3D-C4D-ND	4.18	112.81	107.57
12	U5	201	CYC	C3D-C4D-ND	4.18	112.81	107.57
12	aA	901	CYC	C3D-C4D-ND	4.18	112.81	107.57
12	D3	202	CYC	C4A-C3A-C2A	-4.18	101.73	106.48
12	J2	201	CYC	CHB-C4A-NA	-4.18	115.92	124.95
12	R1	201	CYC	C3D-C4D-ND	4.18	112.81	107.57
12	R3	201	CYC	C3D-C4D-ND	4.18	112.81	107.57
12	E3	201	CYC	OC-C1C-NC	4.18	129.85	124.93
12	E1	201	CYC	OC-C1C-NC	4.18	129.85	124.93
12	F6	202	CYC	CHB-C4A-NA	-4.18	115.93	124.95
12	F2	202	CYC	CHB-C4A-NA	-4.18	115.93	124.95
12	J6	202	CYC	C4A-C3A-C2A	-4.18	101.73	106.48
12	F2	201	CYC	C3D-C4D-ND	4.18	112.81	107.57
12	C1	201	CYC	OC-C1C-NC	4.18	129.85	124.93
12	QA	201	CYC	C3D-C4D-ND	4.18	112.81	107.57
12	H2	202	CYC	CMA-C3A-C4A	4.18	131.59	125.10
12	A1	201	CYC	OC-C1C-NC	4.18	129.85	124.93
12	A3	201	CYC	OC-C1C-NC	4.18	129.85	124.93
12	W4	201	CYC	C3D-C4D-ND	4.18	112.80	107.57
12	W8	201	CYC	C3D-C4D-ND	4.18	112.80	107.57
12	J3	201	CYC	C4D-C3D-C2D	-4.18	102.76	107.62
12	J1	201	CYC	C4D-C3D-C2D	-4.18	102.76	107.62
12	HA	201	CYC	CHB-C4A-NA	-4.17	115.94	124.95
12	W4	202	CYC	CHB-C4A-NA	-4.17	115.94	124.95
12	H3	201	CYC	CMA-C3A-C4A	4.17	131.58	125.10
12	D4	202	CYC	C3D-C4D-ND	4.17	112.80	107.57
12	D8	202	CYC	C3D-C4D-ND	4.17	112.80	107.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	H9	201	CYC	CHB-C4A-NA	-4.17	115.94	124.95
12	X9	202	CYC	CMA-C3A-C4A	4.17	131.58	125.10
12	GA	201	CYC	C3D-C4D-ND	4.17	112.80	107.57
12	M8	302	CYC	C3D-C4D-ND	4.17	112.80	107.57
12	G9	201	CYC	C3D-C4D-ND	4.17	112.80	107.57
12	U4	201	CYC	C4A-C3A-C2A	-4.17	101.74	106.48
12	U8	201	CYC	C4A-C3A-C2A	-4.17	101.74	106.48
12	Y3	201	CYC	C3D-C4D-ND	4.17	112.80	107.57
12	Y1	201	CYC	C3D-C4D-ND	4.17	112.80	107.57
12	U3	201	CYC	OC-C1C-NC	4.17	129.85	124.93
12	U1	201	CYC	OC-C1C-NC	4.17	129.85	124.93
12	a5	201	CYC	C2D-C1D-ND	4.17	113.12	107.43
12	W8	202	CYC	CHB-C4A-NA	-4.17	115.95	124.95
12	H4	202	CYC	CMA-C3A-C4A	4.17	131.57	125.10
12	H8	202	CYC	CMA-C3A-C4A	4.17	131.57	125.10
12	T4	201	CYC	OC-C1C-NC	4.17	129.84	124.93
12	T8	201	CYC	OC-C1C-NC	4.17	129.84	124.93
12	L4	202	CYC	C3D-C4D-ND	4.17	112.79	107.57
12	TA	301	CYC	C4A-C3A-C2A	-4.17	101.75	106.48
12	T9	301	CYC	C4A-C3A-C2A	-4.17	101.75	106.48
12	Y3	201	CYC	OC-C1C-NC	4.17	129.84	124.93
12	Y1	201	CYC	OC-C1C-NC	4.17	129.84	124.93
12	K2	201	CYC	C3D-C4D-ND	4.16	112.79	107.57
12	e7	201	CYC	C2B-C1B-NB	4.16	113.04	106.97
12	VA	202	CYC	CHB-C4A-NA	-4.16	115.96	124.95
12	ZA	201	CYC	CHB-C4A-NA	-4.16	115.96	124.95
12	V9	202	CYC	CHB-C4A-NA	-4.16	115.96	124.95
12	Z9	201	CYC	CHB-C4A-NA	-4.16	115.96	124.95
12	R9	201	CYC	C4A-C3A-C2A	-4.16	101.75	106.48
12	N4	201	CYC	OC-C1C-NC	4.16	129.84	124.93
12	P4	201	CYC	OC-C1C-NC	4.16	129.84	124.93
12	N8	201	CYC	OC-C1C-NC	4.16	129.84	124.93
12	P8	201	CYC	OC-C1C-NC	4.16	129.84	124.93
12	T3	302	CYC	CMA-C3A-C4A	4.16	131.56	125.10
12	T1	302	CYC	CMA-C3A-C4A	4.16	131.56	125.10
12	A6	201	CYC	C3D-C4D-ND	4.16	112.79	107.57
12	A2	201	CYC	C3D-C4D-ND	4.16	112.79	107.57
12	e7	201	CYC	C3D-C4D-ND	4.16	112.79	107.57
12	U7	201	CYC	C3D-C4D-ND	4.16	112.78	107.57
12	B4	201	CYC	CMA-C3A-C4A	4.16	131.56	125.10
12	B8	201	CYC	CMA-C3A-C4A	4.16	131.56	125.10
12	J2	202	CYC	C4A-C3A-C2A	-4.16	101.75	106.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	RA	201	CYC	C3D-C4D-ND	4.16	112.78	107.57
12	R9	201	CYC	C3D-C4D-ND	4.16	112.78	107.57
12	G7	201	CYC	C2B-C1B-NB	4.16	113.03	106.97
12	S3	201	CYC	CMB-C2B-C1B	4.16	129.22	124.16
12	BA	201	CYC	C3D-C4D-ND	4.16	112.78	107.57
12	LA	202	CYC	C3D-C4D-ND	4.16	112.78	107.57
12	L9	202	CYC	C3D-C4D-ND	4.16	112.78	107.57
12	B9	201	CYC	C3D-C4D-ND	4.16	112.78	107.57
12	Z3	202	CYC	CHB-C4A-NA	-4.16	115.98	124.95
12	Z1	201	CYC	CHB-C4A-NA	-4.16	115.98	124.95
12	P9	201	CYC	C4A-C3A-C2A	-4.16	101.76	106.48
12	F9	303	CYC	CMA-C3A-C4A	4.16	131.55	125.10
12	X9	201	CYC	C3D-C4D-ND	4.16	112.78	107.57
12	c7	201	CYC	C2D-C1D-ND	4.15	113.10	107.43
12	A5	201	CYC	C2B-C1B-NB	4.15	113.03	106.97
12	G3	201	CYC	C3D-C4D-ND	4.15	112.78	107.57
12	G1	201	CYC	C3D-C4D-ND	4.15	112.78	107.57
12	J9	202	CYC	C3D-C4D-ND	4.15	112.78	107.57
12	XA	202	CYC	CMA-C3A-C4A	4.15	131.55	125.10
12	B4	202	CYC	C3D-C4D-ND	4.15	112.78	107.57
12	ZA	202	CYC	C3D-C4D-ND	4.15	112.77	107.57
12	Z9	202	CYC	C3D-C4D-ND	4.15	112.77	107.57
12	q7	201	CYC	C3D-C4D-ND	4.15	112.77	107.57
12	M8	301	CYC	C3D-C4D-ND	4.15	112.77	107.57
12	B4	202	CYC	C4A-C3A-C2A	-4.15	101.77	106.48
12	s7	201	CYC	C2B-C1B-NB	4.15	113.02	106.97
12	M4	301	CYC	C3D-C4D-ND	4.15	112.77	107.57
12	L2	201	CYC	C4A-C3A-C2A	-4.15	101.77	106.48
12	U4	202	CYC	C1B-C2B-C3B	-4.15	103.60	107.86
12	Y7	201	CYC	C3D-C4D-ND	4.15	112.77	107.57
12	F9	302	CYC	CMA-C3A-C4A	4.14	131.53	125.10
12	PA	201	CYC	C4A-C3A-C2A	-4.14	101.77	106.48
12	I6	201	CYC	OC-C1C-NC	4.14	129.81	124.93
12	U3	201	CYC	C3D-C4D-ND	4.14	112.76	107.57
12	U1	201	CYC	C3D-C4D-ND	4.14	112.76	107.57
12	V3	202	CYC	CMA-C3A-C4A	4.14	131.53	125.10
12	V1	202	CYC	CMA-C3A-C4A	4.14	131.53	125.10
12	Y7	201	CYC	C2B-C1B-NB	4.14	113.01	106.97
12	S1	201	CYC	OC-C1C-NC	4.14	129.81	124.93
12	S3	201	CYC	OC-C1C-NC	4.14	129.81	124.93
12	I4	201	CYC	OC-C1C-NC	4.14	129.81	124.93
12	I8	201	CYC	OC-C1C-NC	4.14	129.81	124.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	U4	201	CYC	C3D-C4D-ND	4.14	112.76	107.57
12	U8	201	CYC	C3D-C4D-ND	4.14	112.76	107.57
12	Q1	201	CYC	OC-C1C-NC	4.14	129.81	124.93
12	Q3	201	CYC	OC-C1C-NC	4.14	129.81	124.93
12	N6	101	CYC	C3D-C4D-ND	4.14	112.76	107.57
12	O5	201	CYC	C3D-C4D-ND	4.14	112.76	107.57
12	PA	202	CYC	CMA-C3A-C4A	4.14	131.52	125.10
12	RA	201	CYC	C4A-C3A-C2A	-4.14	101.78	106.48
12	JA	202	CYC	C3D-C4D-ND	4.13	112.75	107.57
12	N2	101	CYC	C3D-C4D-ND	4.13	112.75	107.57
12	k7	201	CYC	C3D-C4D-ND	4.13	112.75	107.57
12	B8	202	CYC	C4A-C3A-C2A	-4.13	101.78	106.48
12	V3	201	CYC	C3D-C4D-ND	4.13	112.75	107.57
12	V1	201	CYC	C3D-C4D-ND	4.13	112.75	107.57
12	WA	201	CYC	C3D-C4D-ND	4.13	112.75	107.57
12	S4	202	CYC	C3D-C4D-ND	4.13	112.75	107.57
12	W9	201	CYC	C3D-C4D-ND	4.13	112.75	107.57
12	O4	202	CYC	CMA-C3A-C4A	4.13	131.52	125.10
12	O8	202	CYC	CMA-C3A-C4A	4.13	131.52	125.10
12	R1	201	CYC	C4A-C3A-C2A	-4.13	101.79	106.48
12	R4	201	CYC	OC-C1C-NC	4.13	129.80	124.93
12	S4	202	CYC	C4A-C3A-C2A	-4.13	101.79	106.48
12	P9	202	CYC	CMA-C3A-C4A	4.13	131.51	125.10
12	H4	201	CYC	C3D-C4D-ND	4.13	112.74	107.57
12	P4	201	CYC	C3D-C4D-ND	4.13	112.74	107.57
12	H8	201	CYC	C3D-C4D-ND	4.13	112.74	107.57
12	P8	201	CYC	C3D-C4D-ND	4.13	112.74	107.57
12	I3	201	CYC	OC-C1C-NC	4.13	129.79	124.93
12	U9	201	CYC	OC-C1C-NC	4.13	129.79	124.93
12	I1	201	CYC	OC-C1C-NC	4.13	129.79	124.93
12	a9	901	CYC	C3D-C4D-ND	4.13	112.74	107.57
12	PA	201	CYC	CMA-C3A-C4A	4.12	131.50	125.10
12	P9	201	CYC	CMA-C3A-C4A	4.12	131.50	125.10
12	R3	201	CYC	C4A-C3A-C2A	-4.12	101.80	106.48
12	XA	201	CYC	C3D-C4D-ND	4.12	112.74	107.57
12	B3	202	CYC	C3D-C4D-ND	4.12	112.74	107.57
12	D3	202	CYC	C3D-C4D-ND	4.12	112.74	107.57
12	D1	202	CYC	C3D-C4D-ND	4.12	112.74	107.57
12	W4	202	CYC	CMA-C3A-C4A	4.12	131.50	125.10
12	W8	202	CYC	CMA-C3A-C4A	4.12	131.50	125.10
12	M5	201	CYC	C2B-C1B-NB	4.12	112.98	106.97
12	L6	201	CYC	C4A-C3A-C2A	-4.12	101.80	106.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B3	201	CYC	CMA-C3A-C4A	4.12	131.50	125.10
12	B1	201	CYC	CMA-C3A-C4A	4.12	131.50	125.10
12	IA	201	CYC	OC-C1C-NC	4.12	129.78	124.93
12	E6	201	CYC	OC-C1C-NC	4.12	129.78	124.93
12	I9	201	CYC	OC-C1C-NC	4.12	129.78	124.93
12	aA	902	CYC	C4A-C3A-C2A	-4.12	101.80	106.48
12	K3	201	CYC	C3D-C4D-ND	4.12	112.73	107.57
12	K1	201	CYC	C3D-C4D-ND	4.12	112.73	107.57
12	U8	202	CYC	C1B-C2B-C3B	-4.12	103.63	107.86
12	P1	201	CYC	C3D-C4D-ND	4.12	112.73	107.57
12	P3	201	CYC	C3D-C4D-ND	4.12	112.73	107.57
12	B6	201	CYC	CMA-C3A-C4A	4.11	131.49	125.10
12	X3	201	CYC	C4A-C3A-C2A	-4.11	101.81	106.48
12	J4	202	CYC	CMA-C3A-C4A	4.11	131.49	125.10
12	J8	202	CYC	CMA-C3A-C4A	4.11	131.49	125.10
12	S4	201	CYC	CMA-C3A-C4A	4.11	131.49	125.10
12	S8	201	CYC	CMA-C3A-C4A	4.11	131.49	125.10
12	J2	201	CYC	CMA-C3A-C4A	4.11	131.48	125.10
12	R1	202	CYC	CMA-C3A-C4A	4.11	131.48	125.10
12	R3	202	CYC	CMA-C3A-C4A	4.11	131.48	125.10
12	F6	201	CYC	C3D-C4D-ND	4.11	112.72	107.57
12	P1	202	CYC	CMA-C3A-C4A	4.11	131.48	125.10
12	P3	202	CYC	CMA-C3A-C4A	4.11	131.48	125.10
12	X1	201	CYC	C4A-C3A-C2A	-4.11	101.81	106.48
12	G2	201	CYC	OC-C1C-NC	4.11	129.77	124.93
12	LA	202	CYC	C4A-C3A-C2A	-4.11	101.81	106.48
12	L9	202	CYC	C4A-C3A-C2A	-4.11	101.81	106.48
12	H3	202	CYC	C3D-C4D-ND	4.11	112.72	107.57
12	A5	201	CYC	C3D-C4D-ND	4.11	112.72	107.57
12	L8	201	CYC	CMA-C3A-C4A	4.11	131.48	125.10
12	C7	201	CYC	C3D-C4D-ND	4.11	112.72	107.57
12	I2	201	CYC	OC-C1C-NC	4.11	129.77	124.93
12	X3	201	CYC	CMA-C3A-C4A	4.11	131.47	125.10
12	M4	301	CYC	C4A-C3A-C2A	-4.10	101.82	106.48
12	FA	301	CYC	C3D-C4D-ND	4.10	112.71	107.57
12	F9	301	CYC	C3D-C4D-ND	4.10	112.71	107.57
12	H1	201	CYC	C3D-C4D-ND	4.10	112.71	107.57
12	L3	202	CYC	C4A-C3A-C2A	-4.10	101.82	106.48
12	aA	902	CYC	CMA-C3A-C4A	4.10	131.47	125.10
12	WA	201	CYC	OC-C1C-NC	4.10	129.76	124.93
12	W9	201	CYC	OC-C1C-NC	4.10	129.76	124.93
12	L4	201	CYC	CMA-C3A-C4A	4.10	131.47	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	UA	201	CYC	OC-C1C-NC	4.10	129.76	124.93
12	E5	201	CYC	C3D-C4D-ND	4.10	112.71	107.57
12	L3	202	CYC	CMA-C3A-C4A	4.10	131.47	125.10
12	B2	201	CYC	CMA-C3A-C4A	4.10	131.47	125.10
12	B1	202	CYC	C3D-C4D-ND	4.10	112.71	107.57
12	C4	201	CYC	OC-C1C-NC	4.10	129.76	124.93
12	C8	201	CYC	OC-C1C-NC	4.10	129.76	124.93
12	R8	201	CYC	OC-C1C-NC	4.10	129.76	124.93
12	T3	301	CYC	C3D-C4D-ND	4.10	112.71	107.57
12	L2	201	CYC	CMA-C3A-C4A	4.10	131.46	125.10
12	YA	201	CYC	C3D-C4D-ND	4.10	112.71	107.57
12	I5	201	CYC	C3D-C4D-ND	4.10	112.71	107.57
12	Y9	201	CYC	C3D-C4D-ND	4.10	112.71	107.57
12	I5	201	CYC	C2D-C1D-ND	4.10	113.02	107.43
12	SA	201	CYC	OC-C1C-NC	4.10	129.76	124.93
12	S9	201	CYC	OC-C1C-NC	4.10	129.76	124.93
12	RA	202	CYC	CMA-C3A-C4A	4.10	131.46	125.10
12	R9	202	CYC	CMA-C3A-C4A	4.10	131.46	125.10
12	E2	201	CYC	OC-C1C-NC	4.10	129.76	124.93
12	M7	201	CYC	C2D-C1D-ND	4.10	113.02	107.43
12	F4	202	CYC	C3D-C4D-ND	4.10	112.70	107.57
12	F4	201	CYC	CMA-C3A-C4A	4.09	131.46	125.10
12	Q4	201	CYC	CMA-C3A-C4A	4.09	131.46	125.10
12	F8	201	CYC	CMA-C3A-C4A	4.09	131.46	125.10
12	YA	201	CYC	OC-C1C-NC	4.09	129.75	124.93
12	T1	301	CYC	C3D-C4D-ND	4.09	112.70	107.57
12	H4	201	CYC	C4A-C3A-C2A	-4.09	101.83	106.48
12	H8	201	CYC	C4A-C3A-C2A	-4.09	101.83	106.48
12	J6	201	CYC	CMA-C3A-C4A	4.09	131.46	125.10
12	Q8	201	CYC	CMA-C3A-C4A	4.09	131.46	125.10
12	C5	201	CYC	C3D-C4D-ND	4.09	112.70	107.57
12	A7	201	CYC	C3D-C4D-ND	4.09	112.70	107.57
12	G1	201	CYC	OC-C1C-NC	4.09	129.75	124.93
12	BA	201	CYC	C4A-C3A-C2A	-4.09	101.83	106.48
12	D2	201	CYC	C4A-C3A-C2A	-4.09	101.83	106.48
12	D4	201	CYC	CMA-C3A-C4A	4.09	131.45	125.10
12	D8	201	CYC	CMA-C3A-C4A	4.09	131.45	125.10
12	F8	202	CYC	C3D-C4D-ND	4.09	112.70	107.57
12	QA	201	CYC	OC-C1C-NC	4.09	129.75	124.93
12	J3	201	CYC	CMA-C3A-C4A	4.09	131.45	125.10
12	J1	201	CYC	CMA-C3A-C4A	4.09	131.45	125.10
12	H2	202	CYC	C1B-C2B-C3B	-4.09	103.66	107.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G4	201	CYC	OC-C1C-NC	4.09	129.75	124.93
12	N4	201	CYC	CAA-CBA-CGA	-4.09	102.82	113.67
12	N8	201	CYC	CAA-CBA-CGA	-4.09	102.82	113.67
12	B9	201	CYC	C4A-C3A-C2A	-4.09	101.84	106.48
12	Q7	201	CYC	C3D-C4D-ND	4.09	112.69	107.57
12	C6	201	CYC	OC-C1C-NC	4.09	129.75	124.93
12	q7	201	CYC	C2B-C1B-NB	4.09	112.93	106.97
12	G6	201	CYC	OC-C1C-NC	4.09	129.75	124.93
12	VA	201	CYC	C3D-C4D-ND	4.09	112.69	107.57
12	V9	201	CYC	C3D-C4D-ND	4.09	112.69	107.57
12	Y9	201	CYC	OC-C1C-NC	4.09	129.75	124.93
12	KA	201	CYC	C3D-C4D-ND	4.09	112.69	107.57
12	K9	201	CYC	C3D-C4D-ND	4.09	112.69	107.57
12	TA	301	CYC	C3D-C4D-ND	4.08	112.69	107.57
12	T9	301	CYC	C3D-C4D-ND	4.08	112.69	107.57
12	RA	202	CYC	C1B-C2B-C3B	-4.08	103.66	107.86
12	R9	202	CYC	C1B-C2B-C3B	-4.08	103.66	107.86
12	J4	201	CYC	C3D-C4D-ND	4.08	112.69	107.57
12	g7	201	CYC	C3D-C4D-ND	4.08	112.69	107.57
12	J8	201	CYC	C3D-C4D-ND	4.08	112.69	107.57
12	LA	201	CYC	CMA-C3A-C4A	4.08	131.44	125.10
12	L9	201	CYC	CMA-C3A-C4A	4.08	131.44	125.10
12	KA	201	CYC	OC-C1C-NC	4.08	129.74	124.93
12	K9	201	CYC	OC-C1C-NC	4.08	129.74	124.93
12	G5	201	CYC	C3D-C4D-ND	4.08	112.69	107.57
12	DA	202	CYC	CMA-C3A-C4A	4.08	131.44	125.10
12	L6	201	CYC	CMA-C3A-C4A	4.08	131.44	125.10
12	S5	201	CYC	C2B-C1B-NB	4.08	112.92	106.97
12	G4	201	CYC	CAA-CBA-CGA	-4.08	102.84	113.67
12	G8	201	CYC	CAA-CBA-CGA	-4.08	102.84	113.67
12	B1	202	CYC	CMA-C3A-C4A	4.08	131.44	125.10
12	B3	202	CYC	CMA-C3A-C4A	4.08	131.44	125.10
12	D2	202	CYC	CHA-C4D-C3D	-4.08	118.45	127.22
12	VA	201	CYC	CMA-C3A-C4A	4.08	131.44	125.10
12	V9	201	CYC	CMA-C3A-C4A	4.08	131.44	125.10
12	J8	201	CYC	C4A-C3A-C2A	-4.08	101.84	106.48
12	C5	201	CYC	C2D-C1D-ND	4.08	113.00	107.43
12	Q9	201	CYC	OC-C1C-NC	4.08	129.74	124.93
12	TA	302	CYC	CMA-C3A-C4A	4.08	131.44	125.10
12	T9	302	CYC	CMA-C3A-C4A	4.08	131.44	125.10
12	HA	201	CYC	CMA-C3A-C4A	4.08	131.43	125.10
12	H9	201	CYC	CMA-C3A-C4A	4.08	131.43	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	V3	202	CYC	C1B-C2B-C3B	-4.08	103.67	107.86
12	V1	202	CYC	C1B-C2B-C3B	-4.08	103.67	107.86
12	U4	202	CYC	CMA-C3A-C4A	4.08	131.43	125.10
12	U8	202	CYC	CMA-C3A-C4A	4.08	131.43	125.10
12	F3	201	CYC	C3D-C4D-ND	4.08	112.68	107.57
12	X3	201	CYC	C3D-C4D-ND	4.08	112.68	107.57
12	F1	201	CYC	C3D-C4D-ND	4.08	112.68	107.57
12	H9	201	CYC	C1B-C2B-C3B	-4.08	103.67	107.86
12	DA	201	CYC	C4A-C3A-C2A	-4.08	101.85	106.48
12	D9	201	CYC	C4A-C3A-C2A	-4.08	101.85	106.48
12	Z3	201	CYC	CMA-C3A-C4A	4.08	131.43	125.10
12	L3	201	CYC	CMA-C3A-C4A	4.08	131.43	125.10
12	F6	202	CYC	CMA-C3A-C4A	4.08	131.43	125.10
12	L1	201	CYC	CMA-C3A-C4A	4.08	131.43	125.10
12	Z1	202	CYC	CMA-C3A-C4A	4.08	131.43	125.10
12	D6	202	CYC	CHA-C4D-C3D	-4.07	118.46	127.22
12	GA	201	CYC	OC-C1C-NC	4.07	129.73	124.93
12	G9	201	CYC	OC-C1C-NC	4.07	129.73	124.93
12	Q5	201	CYC	C3D-C4D-ND	4.07	112.68	107.57
12	E7	201	CYC	C3D-C4D-ND	4.07	112.68	107.57
12	M7	201	CYC	C3D-C4D-ND	4.07	112.68	107.57
12	Z3	201	CYC	C4A-C3A-C2A	-4.07	101.85	106.48
12	Z1	202	CYC	C4A-C3A-C2A	-4.07	101.85	106.48
12	a5	201	CYC	C3D-C4D-ND	4.07	112.67	107.57
12	C2	201	CYC	OC-C1C-NC	4.07	129.73	124.93
12	J4	201	CYC	C4A-C3A-C2A	-4.07	101.86	106.48
12	W5	201	CYC	C3D-C4D-ND	4.07	112.67	107.57
12	I7	201	CYC	C3D-C4D-ND	4.07	112.67	107.57
12	F3	202	CYC	CMA-C3A-C4A	4.07	131.42	125.10
12	V3	201	CYC	C4A-C3A-C2A	-4.07	101.86	106.48
12	V1	201	CYC	C4A-C3A-C2A	-4.07	101.86	106.48
12	EA	201	CYC	CAA-CBA-CGA	-4.07	102.88	113.67
12	E9	201	CYC	CAA-CBA-CGA	-4.07	102.88	113.67
12	D9	202	CYC	CMA-C3A-C4A	4.07	131.42	125.10
12	X1	201	CYC	CMA-C3A-C4A	4.07	131.42	125.10
12	P9	202	CYC	CHA-C4D-C3D	-4.07	118.48	127.22
12	G7	201	CYC	C3D-C4D-ND	4.07	112.67	107.57
12	HA	201	CYC	C1B-C2B-C3B	-4.07	103.68	107.86
12	Y4	201	CYC	CMA-C3A-C4A	4.07	131.41	125.10
12	O7	201	CYC	C3D-C4D-ND	4.07	112.67	107.57
12	JA	202	CYC	C4A-C3A-C2A	-4.06	101.86	106.48
12	J9	202	CYC	C4A-C3A-C2A	-4.06	101.86	106.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Z3	202	CYC	CMA-C3A-C4A	4.06	131.41	125.10
12	A2	201	CYC	CAA-CBA-CGA	-4.06	102.89	113.67
12	J6	201	CYC	C1B-C2B-C3B	-4.06	103.69	107.86
12	V4	201	CYC	CAA-CBA-CGA	-4.06	102.89	113.67
12	A6	201	CYC	CAA-CBA-CGA	-4.06	102.89	113.67
12	V8	201	CYC	CAA-CBA-CGA	-4.06	102.89	113.67
12	EA	201	CYC	OC-C1C-NC	4.06	129.72	124.93
12	E9	201	CYC	OC-C1C-NC	4.06	129.72	124.93
12	H1	202	CYC	C1B-C2B-C3B	-4.06	103.69	107.86
12	L2	202	CYC	CMA-C3A-C4A	4.06	131.41	125.10
12	G3	201	CYC	CAA-CBA-CGA	-4.06	102.89	113.67
12	G1	201	CYC	CAA-CBA-CGA	-4.06	102.89	113.67
12	G3	201	CYC	OC-C1C-NC	4.06	129.72	124.93
12	X1	201	CYC	C3D-C4D-ND	4.06	112.66	107.57
12	k7	201	CYC	C2B-C1B-NB	4.06	112.89	106.97
12	M8	302	CYC	C4A-C3A-C2A	-4.06	101.87	106.48
12	G8	201	CYC	OC-C1C-NC	4.06	129.71	124.93
12	X8	201	CYC	OC-C1C-NC	4.06	129.71	124.93
12	Y8	201	CYC	CMA-C3A-C4A	4.06	131.40	125.10
12	U4	201	CYC	CMA-C3A-C4A	4.06	131.40	125.10
12	U8	201	CYC	CMA-C3A-C4A	4.06	131.40	125.10
12	C3	201	CYC	CAA-CBA-CGA	-4.06	102.91	113.67
12	C1	201	CYC	CAA-CBA-CGA	-4.06	102.91	113.67
12	VA	202	CYC	CMA-C3A-C4A	4.06	131.40	125.10
12	V9	202	CYC	CMA-C3A-C4A	4.06	131.40	125.10
12	GA	201	CYC	CAA-CBA-CGA	-4.06	102.91	113.67
12	OA	201	CYC	CAA-CBA-CGA	-4.06	102.91	113.67
12	X8	201	CYC	CAA-CBA-CGA	-4.06	102.91	113.67
12	O9	201	CYC	CAA-CBA-CGA	-4.06	102.91	113.67
12	G9	201	CYC	CAA-CBA-CGA	-4.06	102.91	113.67
12	E4	201	CYC	CAA-CBA-CGA	-4.06	102.91	113.67
12	E8	201	CYC	CAA-CBA-CGA	-4.06	102.91	113.67
12	PA	202	CYC	CHA-C4D-C3D	-4.06	118.50	127.22
12	H2	201	CYC	C3D-C4D-ND	4.05	112.65	107.57
12	H6	201	CYC	C3D-C4D-ND	4.05	112.65	107.57
12	O1	201	CYC	CAA-CBA-CGA	-4.05	102.91	113.67
12	S1	201	CYC	CAA-CBA-CGA	-4.05	102.91	113.67
12	O3	201	CYC	CAA-CBA-CGA	-4.05	102.91	113.67
12	X3	202	CYC	CMA-C3A-C4A	4.05	131.40	125.10
12	X1	202	CYC	CMA-C3A-C4A	4.05	131.40	125.10
12	S7	201	CYC	C2B-C1B-NB	4.05	112.88	106.97
12	K5	201	CYC	C3D-C4D-ND	4.05	112.65	107.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	K7	201	CYC	C3D-C4D-ND	4.05	112.65	107.57
12	L6	202	CYC	CMA-C3A-C4A	4.05	131.39	125.10
12	WA	201	CYC	CAA-CBA-CGA	-4.05	102.92	113.67
12	W9	201	CYC	CAA-CBA-CGA	-4.05	102.92	113.67
12	P4	201	CYC	CAA-CBA-CGA	-4.05	102.92	113.67
12	P8	201	CYC	CAA-CBA-CGA	-4.05	102.92	113.67
12	F1	202	CYC	CMA-C3A-C4A	4.05	131.39	125.10
12	a7	201	CYC	C3D-C4D-ND	4.05	112.65	107.57
12	JA	201	CYC	CMA-C3A-C4A	4.05	131.39	125.10
12	J9	201	CYC	CMA-C3A-C4A	4.05	131.39	125.10
12	Z1	201	CYC	CMA-C3A-C4A	4.05	131.39	125.10
12	D1	202	CYC	CMA-C3A-C4A	4.05	131.39	125.10
12	B8	201	CYC	CAB-C3B-C4B	4.05	127.63	121.37
12	aA	901	CYC	C4A-C3A-C2A	-4.05	101.88	106.48
12	D3	202	CYC	CMA-C3A-C4A	4.05	131.38	125.10
12	P1	201	CYC	C4A-C3A-C2A	-4.05	101.88	106.48
12	D4	202	CYC	C4A-C3A-C2A	-4.05	101.88	106.48
12	P3	201	CYC	C4A-C3A-C2A	-4.05	101.88	106.48
12	D8	202	CYC	C4A-C3A-C2A	-4.05	101.88	106.48
12	F2	202	CYC	CMA-C3A-C4A	4.05	131.38	125.10
12	J2	201	CYC	C1B-C2B-C3B	-4.05	103.70	107.86
12	e5	201	CYC	C3D-C4D-ND	4.05	112.64	107.57
12	TA	302	CYC	CHA-C4D-C3D	-4.05	118.52	127.22
12	T9	302	CYC	CHA-C4D-C3D	-4.05	118.52	127.22
12	B4	201	CYC	C1B-C2B-C3B	-4.04	103.70	107.86
12	B8	201	CYC	C1B-C2B-C3B	-4.04	103.70	107.86
12	LA	202	CYC	CMA-C3A-C4A	4.04	131.38	125.10
12	TA	301	CYC	CMA-C3A-C4A	4.04	131.38	125.10
12	L9	202	CYC	CMA-C3A-C4A	4.04	131.38	125.10
12	T9	301	CYC	CMA-C3A-C4A	4.04	131.38	125.10
12	E3	201	CYC	CAA-CBA-CGA	-4.04	102.94	113.67
12	E1	201	CYC	CAA-CBA-CGA	-4.04	102.94	113.67
12	F3	202	CYC	C1B-C2B-C3B	-4.04	103.71	107.86
12	F1	202	CYC	C1B-C2B-C3B	-4.04	103.71	107.86
12	J8	202	CYC	CHA-C4D-C3D	-4.04	118.53	127.22
12	J9	201	CYC	C1B-C2B-C3B	-4.04	103.71	107.86
12	I1	201	CYC	CAA-CBA-CGA	-4.04	102.94	113.67
12	X4	201	CYC	CAA-CBA-CGA	-4.04	102.95	113.67
12	H3	202	CYC	C4A-C3A-C2A	-4.04	101.89	106.48
12	I3	201	CYC	CAA-CBA-CGA	-4.04	102.95	113.67
12	S3	201	CYC	CAA-CBA-CGA	-4.04	102.95	113.67
12	Q1	201	CYC	CAA-CBA-CGA	-4.04	102.95	113.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G2	201	CYC	CAA-CBA-CGA	-4.04	102.95	113.67
12	Q3	201	CYC	CAA-CBA-CGA	-4.04	102.95	113.67
12	H6	201	CYC	C4A-C3A-C2A	-4.04	101.89	106.48
12	W3	201	CYC	CAA-CBA-CGA	-4.04	102.95	113.67
12	S9	201	CYC	CAA-CBA-CGA	-4.04	102.95	113.67
12	W1	201	CYC	CAA-CBA-CGA	-4.04	102.95	113.67
12	N2	101	CYC	C4A-C3A-C2A	-4.04	101.89	106.48
12	N6	101	CYC	C4A-C3A-C2A	-4.04	101.89	106.48
12	BA	202	CYC	CHA-C4D-C3D	-4.04	118.54	127.22
12	B9	202	CYC	CHA-C4D-C3D	-4.04	118.54	127.22
12	G6	201	CYC	CAA-CBA-CGA	-4.04	102.95	113.67
12	H6	202	CYC	C1B-C2B-C3B	-4.04	103.71	107.86
12	H4	202	CYC	CHA-C4D-C3D	-4.04	118.54	127.22
12	H8	202	CYC	CHA-C4D-C3D	-4.04	118.54	127.22
12	N6	101	CYC	CMA-C3A-C4A	4.04	131.37	125.10
12	B4	201	CYC	CAB-C3B-C4B	4.04	127.61	121.37
12	H2	201	CYC	C4A-C3A-C2A	-4.04	101.90	106.48
12	c5	201	CYC	C3D-C4D-ND	4.04	112.63	107.57
12	PA	201	CYC	C3D-C4D-ND	4.03	112.63	107.57
12	P9	201	CYC	C3D-C4D-ND	4.03	112.63	107.57
12	H1	201	CYC	C4A-C3A-C2A	-4.03	101.90	106.48
12	YA	201	CYC	CAA-CBA-CGA	-4.03	102.97	113.67
12	Y9	201	CYC	CAA-CBA-CGA	-4.03	102.97	113.67
12	E6	201	CYC	CAA-CBA-CGA	-4.03	102.97	113.67
12	Y5	201	CYC	C3D-C4D-ND	4.03	112.62	107.57
12	VA	201	CYC	C4A-C3A-C2A	-4.03	101.90	106.48
12	V9	201	CYC	C4A-C3A-C2A	-4.03	101.90	106.48
12	X4	201	CYC	OC-C1C-NC	4.03	129.68	124.93
12	C8	201	CYC	CAA-CBA-CGA	-4.03	102.97	113.67
12	J4	202	CYC	CHA-C4D-C3D	-4.03	118.55	127.22
12	CA	201	CYC	CAA-CBA-CGA	-4.03	102.97	113.67
12	C9	201	CYC	CAA-CBA-CGA	-4.03	102.97	113.67
12	ZA	202	CYC	C4A-C3A-C2A	-4.03	101.90	106.48
12	Z9	202	CYC	C4A-C3A-C2A	-4.03	101.90	106.48
12	O4	201	CYC	C3D-C4D-ND	4.03	112.62	107.57
12	O8	201	CYC	C3D-C4D-ND	4.03	112.62	107.57
12	D3	201	CYC	CHA-C4D-C3D	-4.03	118.56	127.22
12	R9	201	CYC	CMA-C3A-C4A	4.03	131.36	125.10
12	VA	202	CYC	C1B-C2B-C3B	-4.03	103.72	107.86
12	IA	201	CYC	CAA-CBA-CGA	-4.03	102.98	113.67
12	UA	201	CYC	CAA-CBA-CGA	-4.03	102.98	113.67
12	I9	201	CYC	CAA-CBA-CGA	-4.03	102.98	113.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	U9	201	CYC	CAA-CBA-CGA	-4.03	102.98	113.67
12	C4	201	CYC	CAA-CBA-CGA	-4.03	102.98	113.67
12	SA	201	CYC	CAA-CBA-CGA	-4.03	102.98	113.67
12	XA	201	CYC	C4A-C3A-C2A	-4.03	101.91	106.48
12	X9	201	CYC	C4A-C3A-C2A	-4.03	101.91	106.48
12	E2	201	CYC	CAA-CBA-CGA	-4.03	102.99	113.67
12	o7	201	CYC	C3D-C4D-ND	4.03	112.62	107.57
12	Z1	201	CYC	CHA-C4D-C3D	-4.03	118.56	127.22
12	H3	201	CYC	C1B-C2B-C3B	-4.03	103.72	107.86
12	Z3	202	CYC	C1B-C2B-C3B	-4.02	103.72	107.86
12	Z1	201	CYC	C1B-C2B-C3B	-4.02	103.72	107.86
12	Q4	201	CYC	CHA-C4D-C3D	-4.02	118.57	127.22
12	K2	201	CYC	CAA-CBA-CGA	-4.02	102.99	113.67
12	A4	201	CYC	CAA-CBA-CGA	-4.02	102.99	113.67
12	A8	201	CYC	CAA-CBA-CGA	-4.02	102.99	113.67
12	E5	201	CYC	C1D-C2D-C3D	-4.02	102.73	107.76
12	F4	202	CYC	C4A-C3A-C2A	-4.02	101.91	106.48
12	F8	202	CYC	C4A-C3A-C2A	-4.02	101.91	106.48
12	K6	201	CYC	CAA-CBA-CGA	-4.02	102.99	113.67
12	VA	202	CYC	CHA-C4D-C3D	-4.02	118.57	127.22
12	B6	201	CYC	CHA-C4D-C3D	-4.02	118.57	127.22
12	V9	202	CYC	CHA-C4D-C3D	-4.02	118.57	127.22
12	U3	201	CYC	CAA-CBA-CGA	-4.02	103.00	113.67
12	U1	201	CYC	CAA-CBA-CGA	-4.02	103.00	113.67
12	ZA	202	CYC	CMA-C3A-C4A	4.02	131.34	125.10
12	Z9	202	CYC	CMA-C3A-C4A	4.02	131.34	125.10
12	Z3	202	CYC	CHA-C4D-C3D	-4.02	118.58	127.22
12	B2	201	CYC	CHA-C4D-C3D	-4.02	118.58	127.22
12	DA	201	CYC	CMA-C3A-C4A	4.02	131.34	125.10
12	ZA	201	CYC	CMA-C3A-C4A	4.02	131.34	125.10
12	D9	201	CYC	CMA-C3A-C4A	4.02	131.34	125.10
12	Z9	201	CYC	CMA-C3A-C4A	4.02	131.34	125.10
12	T8	201	CYC	CAA-CBA-CGA	-4.02	103.00	113.67
12	W4	201	CYC	CMA-C3A-C4A	4.02	131.34	125.10
12	W8	201	CYC	CMA-C3A-C4A	4.02	131.34	125.10
12	I4	201	CYC	CAA-CBA-CGA	-4.02	103.00	113.67
12	K4	201	CYC	CAA-CBA-CGA	-4.02	103.00	113.67
12	I8	201	CYC	CAA-CBA-CGA	-4.02	103.00	113.67
12	K8	201	CYC	CAA-CBA-CGA	-4.02	103.00	113.67
12	D6	201	CYC	C4A-C3A-C2A	-4.02	101.91	106.48
12	J6	202	CYC	CMA-C3A-C4A	4.02	131.34	125.10
12	U4	202	CYC	CHA-C4D-C3D	-4.02	118.58	127.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	U8	202	CYC	CHA-C4D-C3D	-4.02	118.58	127.22
12	K5	201	CYC	C1D-C2D-C3D	-4.02	102.73	107.76
12	S7	201	CYC	C3D-C4D-ND	4.02	112.61	107.57
12	W4	201	CYC	C4A-C3A-C2A	-4.02	101.92	106.48
12	W8	201	CYC	C4A-C3A-C2A	-4.02	101.92	106.48
12	R8	201	CYC	CAA-CBA-CGA	-4.02	103.01	113.67
12	D1	201	CYC	CHA-C4D-C3D	-4.02	118.58	127.22
12	Q8	201	CYC	CHA-C4D-C3D	-4.02	118.59	127.22
12	C2	201	CYC	CAA-CBA-CGA	-4.02	103.01	113.67
12	J3	202	CYC	C4A-C3A-C2A	-4.02	101.92	106.48
12	PA	202	CYC	C1B-C2B-C3B	-4.02	103.73	107.86
12	P9	202	CYC	C1B-C2B-C3B	-4.02	103.73	107.86
12	u7	201	CYC	C3D-C4D-ND	4.01	112.60	107.57
12	A1	201	CYC	CAA-CBA-CGA	-4.01	103.02	113.67
12	A3	201	CYC	CAA-CBA-CGA	-4.01	103.02	113.67
12	J2	202	CYC	CMA-C3A-C4A	4.01	131.33	125.10
12	D4	202	CYC	CMA-C3A-C4A	4.01	131.33	125.10
12	D8	202	CYC	CMA-C3A-C4A	4.01	131.33	125.10
12	J1	201	CYC	C1B-C2B-C3B	-4.01	103.74	107.86
12	W4	202	CYC	CHA-C4D-C3D	-4.01	118.59	127.22
12	L4	202	CYC	C4A-C3A-C2A	-4.01	101.92	106.48
12	H3	202	CYC	CMA-C3A-C4A	4.01	131.33	125.10
12	N2	101	CYC	CMA-C3A-C4A	4.01	131.33	125.10
12	S5	201	CYC	C3D-C4D-ND	4.01	112.60	107.57
12	JA	201	CYC	C1B-C2B-C3B	-4.01	103.74	107.86
12	H1	201	CYC	CMA-C3A-C4A	4.01	131.33	125.10
12	F4	201	CYC	CAB-C3B-C4B	4.01	127.57	121.37
12	JA	201	CYC	CHA-C4D-C3D	-4.01	118.60	127.22
12	F3	201	CYC	C4A-C3A-C2A	-4.01	101.93	106.48
12	F1	201	CYC	C4A-C3A-C2A	-4.01	101.93	106.48
12	Y4	201	CYC	C1B-C2B-C3B	-4.01	103.74	107.86
12	Y8	201	CYC	C1B-C2B-C3B	-4.01	103.74	107.86
12	A9	201	CYC	CAA-CBA-CGA	-4.01	103.03	113.67
12	FA	301	CYC	C4A-C3A-C2A	-4.01	101.93	106.48
12	F9	301	CYC	C4A-C3A-C2A	-4.01	101.93	106.48
12	H4	202	CYC	C1B-C2B-C3B	-4.01	103.74	107.86
12	H8	202	CYC	C1B-C2B-C3B	-4.01	103.74	107.86
12	T4	201	CYC	CAA-CBA-CGA	-4.01	103.04	113.67
12	RA	201	CYC	CMA-C3A-C4A	4.01	131.32	125.10
12	H3	201	CYC	CHA-C4D-C3D	-4.01	118.61	127.22
12	V3	202	CYC	CHA-C4D-C3D	-4.01	118.61	127.22
12	V1	202	CYC	CHA-C4D-C3D	-4.01	118.61	127.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	F6	201	CYC	C4A-C3A-C2A	-4.01	101.93	106.48
12	T3	302	CYC	CHA-C4D-C3D	-4.01	118.61	127.22
12	T1	302	CYC	CHA-C4D-C3D	-4.01	118.61	127.22
12	H2	201	CYC	CMA-C3A-C4A	4.01	131.32	125.10
12	H1	202	CYC	CHA-C4D-C3D	-4.01	118.61	127.22
12	R4	201	CYC	CAA-CBA-CGA	-4.00	103.05	113.67
12	J4	202	CYC	C1B-C2B-C3B	-4.00	103.75	107.86
12	J8	202	CYC	C1B-C2B-C3B	-4.00	103.75	107.86
12	W8	202	CYC	CHA-C4D-C3D	-4.00	118.62	127.22
12	KA	201	CYC	CAA-CBA-CGA	-4.00	103.05	113.67
12	I6	201	CYC	CAA-CBA-CGA	-4.00	103.05	113.67
12	K9	201	CYC	CAA-CBA-CGA	-4.00	103.05	113.67
12	BA	201	CYC	CMA-C3A-C4A	4.00	131.31	125.10
12	J9	201	CYC	CHA-C4D-C3D	-4.00	118.62	127.22
12	Q9	201	CYC	CAA-CBA-CGA	-4.00	103.06	113.67
12	Y1	201	CYC	CAA-CBA-CGA	-4.00	103.06	113.67
12	AA	201	CYC	CAA-CBA-CGA	-4.00	103.06	113.67
12	I2	201	CYC	CAA-CBA-CGA	-4.00	103.06	113.67
12	B9	201	CYC	CMA-C3A-C4A	4.00	131.31	125.10
12	QA	201	CYC	CAA-CBA-CGA	-4.00	103.06	113.67
12	M5	201	CYC	C3D-C4D-ND	4.00	112.58	107.57
12	J6	201	CYC	CHA-C4D-C3D	-4.00	118.62	127.22
12	F8	201	CYC	CAB-C3B-C4B	4.00	127.55	121.37
12	B3	201	CYC	CHA-C4D-C3D	-4.00	118.63	127.22
12	B1	201	CYC	CHA-C4D-C3D	-4.00	118.63	127.22
12	C6	201	CYC	CAA-CBA-CGA	-4.00	103.06	113.67
12	a9	901	CYC	C4A-C3A-C2A	-4.00	101.94	106.48
12	R4	201	CYC	C2D-C1D-ND	4.00	112.88	107.43
12	R8	201	CYC	C2D-C1D-ND	4.00	112.88	107.43
12	D8	201	CYC	CHA-C4D-C3D	-3.99	118.63	127.22
12	RA	202	CYC	CHA-C4D-C3D	-3.99	118.64	127.22
12	X3	202	CYC	CHA-C4D-C3D	-3.99	118.64	127.22
12	X1	202	CYC	CHA-C4D-C3D	-3.99	118.64	127.22
12	FA	301	CYC	CMA-C3A-C4A	3.99	131.30	125.10
12	F9	301	CYC	CMA-C3A-C4A	3.99	131.30	125.10
12	s7	201	CYC	C3D-C4D-ND	3.99	112.57	107.57
12	O4	202	CYC	CHA-C4D-C3D	-3.99	118.64	127.22
12	D4	201	CYC	CHA-C4D-C3D	-3.99	118.64	127.22
12	V9	202	CYC	C1B-C2B-C3B	-3.99	103.76	107.86
12	Z4	301	CYC	C4A-C3A-C2A	-3.99	101.95	106.48
12	Y3	201	CYC	CAA-CBA-CGA	-3.99	103.09	113.67
12	D6	202	CYC	CMA-C3A-C4A	3.99	131.29	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	W7	201	CYC	C3D-C4D-ND	3.99	112.57	107.57
12	P1	201	CYC	CMA-C3A-C4A	3.99	131.29	125.10
12	P3	201	CYC	CMA-C3A-C4A	3.99	131.29	125.10
12	O4	201	CYC	CMA-C3A-C4A	3.99	131.29	125.10
12	O8	201	CYC	CMA-C3A-C4A	3.99	131.29	125.10
12	J2	201	CYC	CHA-C4D-C3D	-3.98	118.65	127.22
12	O8	202	CYC	CHA-C4D-C3D	-3.98	118.65	127.22
12	B2	201	CYC	CAB-C3B-C4B	3.98	127.53	121.37
12	HA	201	CYC	CHA-C4D-C3D	-3.98	118.66	127.22
12	H9	201	CYC	CHA-C4D-C3D	-3.98	118.66	127.22
12	D3	201	CYC	CMA-C3A-C4A	3.98	131.29	125.10
12	D1	201	CYC	CMA-C3A-C4A	3.98	131.29	125.10
12	J3	201	CYC	C1B-C2B-C3B	-3.98	103.77	107.86
12	ZA	201	CYC	CHA-C4D-C3D	-3.98	118.66	127.22
12	D2	202	CYC	CMA-C3A-C4A	3.98	131.28	125.10
12	R9	202	CYC	CHA-C4D-C3D	-3.98	118.66	127.22
12	M8	301	CYC	C4A-C3A-C2A	-3.98	101.96	106.48
12	H6	201	CYC	CMA-C3A-C4A	3.98	131.28	125.10
12	B4	201	CYC	CHA-C4D-C3D	-3.98	118.67	127.22
12	B8	201	CYC	CHA-C4D-C3D	-3.98	118.67	127.22
12	LA	201	CYC	C1B-C2B-C3B	-3.98	103.77	107.86
12	R1	202	CYC	C1B-C2B-C3B	-3.98	103.77	107.86
12	R3	202	CYC	C1B-C2B-C3B	-3.98	103.77	107.86
12	B3	201	CYC	CAB-C3B-C4B	3.98	127.52	121.37
12	B1	201	CYC	CAB-C3B-C4B	3.98	127.52	121.37
12	T9	302	CYC	CAB-C3B-C4B	3.98	127.52	121.37
12	B4	202	CYC	CMA-C3A-C4A	3.98	131.28	125.10
12	K3	201	CYC	CAA-CBA-CGA	-3.98	103.12	113.67
12	K1	201	CYC	CAA-CBA-CGA	-3.98	103.12	113.67
12	q7	201	CYC	CHD-C1D-ND	-3.98	116.31	125.29
12	J2	202	CYC	C3D-C4D-ND	3.98	112.55	107.57
12	m7	201	CYC	C3D-C4D-ND	3.98	112.55	107.57
12	B6	201	CYC	CAB-C3B-C4B	3.97	127.52	121.37
12	XA	201	CYC	CMA-C3A-C4A	3.97	131.27	125.10
12	X9	201	CYC	CMA-C3A-C4A	3.97	131.27	125.10
12	Z9	201	CYC	CHA-C4D-C3D	-3.97	118.68	127.22
12	J6	202	CYC	C3D-C4D-ND	3.97	112.55	107.57
12	D6	202	CYC	CAB-C3B-C4B	3.97	127.51	121.37
12	D2	202	CYC	CAB-C3B-C4B	3.97	127.51	121.37
12	aA	901	CYC	CMA-C3A-C4A	3.97	131.27	125.10
12	J3	202	CYC	CMA-C3A-C4A	3.97	131.27	125.10
12	F6	201	CYC	CMA-C3A-C4A	3.97	131.26	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	c5	201	CYC	C1D-C2D-C3D	-3.97	102.79	107.76
12	i7	201	CYC	C3D-C4D-ND	3.97	112.55	107.57
12	TA	302	CYC	CAB-C3B-C4B	3.97	127.51	121.37
12	H4	201	CYC	CMA-C3A-C4A	3.97	131.26	125.10
12	H8	201	CYC	CMA-C3A-C4A	3.97	131.26	125.10
12	L9	201	CYC	CHA-C4D-C3D	-3.97	118.69	127.22
12	BA	202	CYC	CAB-C3B-C4B	3.97	127.51	121.37
12	B9	202	CYC	CAB-C3B-C4B	3.97	127.51	121.37
12	JA	202	CYC	CMA-C3A-C4A	3.97	131.26	125.10
12	J9	202	CYC	CMA-C3A-C4A	3.97	131.26	125.10
12	W7	201	CYC	C1D-C2D-C3D	-3.97	102.80	107.76
12	V1	201	CYC	CMA-C3A-C4A	3.97	131.26	125.10
12	Z8	301	CYC	C4A-C3A-C2A	-3.97	101.97	106.48
12	R1	201	CYC	CMA-C3A-C4A	3.97	131.26	125.10
12	R3	201	CYC	CMA-C3A-C4A	3.97	131.26	125.10
12	F6	202	CYC	CAB-C3B-C4B	3.96	127.50	121.37
12	F3	202	CYC	CHA-C4D-C3D	-3.96	118.70	127.22
12	F1	202	CYC	CHA-C4D-C3D	-3.96	118.70	127.22
12	Q8	201	CYC	CAB-C3B-C4B	3.96	127.50	121.37
12	HA	202	CYC	CMA-C3A-C4A	3.96	131.25	125.10
12	B8	202	CYC	CMA-C3A-C4A	3.96	131.25	125.10
12	Y5	201	CYC	C1D-C2D-C3D	-3.96	102.81	107.76
12	H9	202	CYC	CMA-C3A-C4A	3.96	131.25	125.10
12	F9	302	CYC	CHA-C4D-C3D	-3.96	118.71	127.22
12	J4	201	CYC	CMA-C3A-C4A	3.96	131.24	125.10
12	J8	201	CYC	CMA-C3A-C4A	3.96	131.24	125.10
12	Q4	201	CYC	CAB-C3B-C4B	3.96	127.49	121.37
12	L4	202	CYC	CMA-C3A-C4A	3.96	131.24	125.10
12	LA	201	CYC	CHA-C4D-C3D	-3.96	118.72	127.22
12	DA	202	CYC	CHA-C4D-C3D	-3.96	118.72	127.22
12	D9	202	CYC	CHA-C4D-C3D	-3.96	118.72	127.22
12	H9	202	CYC	C4A-C3A-C2A	-3.95	101.99	106.48
12	F2	202	CYC	CHA-C4D-C3D	-3.95	118.72	127.22
12	C4	201	CYC	C2D-C1D-ND	3.95	112.82	107.43
12	C8	201	CYC	C2D-C1D-ND	3.95	112.82	107.43
12	R1	202	CYC	CHA-C4D-C3D	-3.95	118.72	127.22
12	J3	201	CYC	CHA-C4D-C3D	-3.95	118.72	127.22
12	R3	202	CYC	CHA-C4D-C3D	-3.95	118.72	127.22
12	J1	201	CYC	CHA-C4D-C3D	-3.95	118.72	127.22
12	Q5	201	CYC	C1D-C2D-C3D	-3.95	102.81	107.76
12	D4	201	CYC	CAB-C3B-C4B	3.95	127.48	121.37
12	T3	302	CYC	CAB-C3B-C4B	3.95	127.48	121.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	D8	201	CYC	CAB-C3B-C4B	3.95	127.48	121.37
12	T1	302	CYC	CAB-C3B-C4B	3.95	127.48	121.37
12	XA	202	CYC	CHA-C4D-C3D	-3.95	118.72	127.22
12	XA	202	CYC	C1B-C2B-C3B	-3.95	103.80	107.86
12	X9	202	CYC	C1B-C2B-C3B	-3.95	103.80	107.86
12	k7	201	CYC	CHD-C1D-ND	-3.95	116.36	125.29
12	BA	202	CYC	C1B-C2B-C3B	-3.95	103.80	107.86
12	L6	202	CYC	C1B-C2B-C3B	-3.95	103.80	107.86
12	c5	201	CYC	CHD-C1D-ND	-3.95	116.37	125.29
12	G5	201	CYC	CHD-C4C-NC	3.95	130.56	125.63
12	J2	201	CYC	CAB-C3B-C4B	3.95	127.47	121.37
12	O4	201	CYC	C4A-C3A-C2A	-3.95	102.00	106.48
12	O8	201	CYC	C4A-C3A-C2A	-3.95	102.00	106.48
12	X9	202	CYC	CHA-C4D-C3D	-3.95	118.74	127.22
12	L9	201	CYC	C1B-C2B-C3B	-3.95	103.81	107.86
12	W5	201	CYC	C1D-C2D-C3D	-3.95	102.82	107.76
12	W4	202	CYC	C1B-C2B-C3B	-3.95	103.81	107.86
12	W8	202	CYC	C1B-C2B-C3B	-3.95	103.81	107.86
12	H2	202	CYC	CHA-C4D-C3D	-3.94	118.74	127.22
12	H6	202	CYC	CHA-C4D-C3D	-3.94	118.74	127.22
12	P1	202	CYC	CHA-C4D-C3D	-3.94	118.74	127.22
12	F9	303	CYC	CHA-C4D-C3D	-3.94	118.74	127.22
12	V3	201	CYC	CMA-C3A-C4A	3.94	131.22	125.10
12	A5	201	CYC	CHD-C4C-NC	3.94	130.55	125.63
12	I7	201	CYC	C1D-C2D-C3D	-3.94	102.83	107.76
12	k5	1202	CYC	OC-C1C-C2C	-3.94	123.04	126.17
12	F9	302	CYC	CAB-C3B-C4B	3.94	127.47	121.37
12	S4	201	CYC	CHA-C4D-C3D	-3.94	118.75	127.22
12	P1	202	CYC	C1B-C2B-C3B	-3.94	103.81	107.86
12	P3	202	CYC	C1B-C2B-C3B	-3.94	103.81	107.86
12	F4	201	CYC	CHA-C4D-C3D	-3.94	118.75	127.22
12	F8	201	CYC	CHA-C4D-C3D	-3.94	118.75	127.22
12	Y5	201	CYC	CHD-C1D-ND	-3.94	116.39	125.29
12	M4	301	CYC	CMA-C3A-C4A	3.94	131.22	125.10
12	B9	202	CYC	C1B-C2B-C3B	-3.94	103.81	107.86
12	E7	201	CYC	C1D-C2D-C3D	-3.94	102.83	107.76
12	P3	202	CYC	CHA-C4D-C3D	-3.94	118.75	127.22
12	Q7	201	CYC	C1D-C2D-C3D	-3.94	102.83	107.76
12	L4	201	CYC	CHA-C4D-C3D	-3.94	118.76	127.22
12	L8	201	CYC	CHA-C4D-C3D	-3.94	118.76	127.22
12	L1	201	CYC	CHA-C4D-C3D	-3.94	118.76	127.22
12	KA	201	CYC	C1D-C2D-C3D	-3.94	102.84	107.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	a7	201	CYC	C1D-C2D-C3D	-3.94	102.84	107.76
12	L8	201	CYC	C1B-C2B-C3B	-3.94	103.82	107.86
12	K6	201	CYC	C2D-C1D-ND	3.94	112.80	107.43
12	J8	202	CYC	CAB-C3B-C4B	3.94	127.46	121.37
12	EA	201	CYC	C2D-C1D-ND	3.93	112.80	107.43
12	E9	201	CYC	C2D-C1D-ND	3.93	112.80	107.43
12	L8	201	CYC	CAB-C3B-C4B	3.93	127.45	121.37
12	B6	201	CYC	C1B-C2B-C3B	-3.93	103.82	107.86
12	B2	201	CYC	C1B-C2B-C3B	-3.93	103.82	107.86
12	S5	201	CYC	CHD-C1D-ND	-3.93	116.41	125.29
12	e5	201	CYC	C1D-C2D-C3D	-3.93	102.84	107.76
12	S7	201	CYC	C1D-C2D-C3D	-3.93	102.84	107.76
12	Q4	201	CYC	C1B-C2B-C3B	-3.93	103.82	107.86
12	L4	201	CYC	C1B-C2B-C3B	-3.93	103.82	107.86
12	F3	201	CYC	CMA-C3A-C4A	3.93	131.20	125.10
12	F1	201	CYC	CMA-C3A-C4A	3.93	131.20	125.10
12	HA	202	CYC	C4A-C3A-C2A	-3.93	102.02	106.48
12	RA	202	CYC	CAB-C3B-C4B	3.93	127.45	121.37
12	R9	202	CYC	CAB-C3B-C4B	3.93	127.45	121.37
12	F8	202	CYC	CMA-C3A-C4A	3.93	131.20	125.10
12	a9	901	CYC	CMA-C3A-C4A	3.93	131.20	125.10
12	S5	201	CYC	C1D-C2D-C3D	-3.93	102.85	107.76
12	F2	202	CYC	CAB-C3B-C4B	3.93	127.44	121.37
12	c7	201	CYC	C3D-C4D-ND	3.93	112.49	107.57
12	g7	201	CYC	C1D-C2D-C3D	-3.93	102.85	107.76
12	L5	201	CYC	CMD-C2D-C1D	3.93	131.33	125.62
12	u7	201	CYC	C1D-C2D-C3D	-3.93	102.85	107.76
12	QA	201	CYC	C2D-C1D-ND	3.93	112.78	107.43
12	B3	201	CYC	C1B-C2B-C3B	-3.93	103.83	107.86
12	B1	201	CYC	C1B-C2B-C3B	-3.93	103.83	107.86
12	O4	202	CYC	CAB-C3B-C4B	3.93	127.44	121.37
12	O8	202	CYC	CAB-C3B-C4B	3.93	127.44	121.37
12	I2	201	CYC	C1D-C2D-C3D	-3.93	102.85	107.76
12	S8	201	CYC	CHA-C4D-C3D	-3.93	118.78	127.22
12	d5	201	CYC	OC-C1C-C2C	-3.93	123.05	126.17
12	L2	202	CYC	CHA-C4D-C3D	-3.92	118.78	127.22
12	Y7	201	CYC	CHD-C1D-ND	-3.92	116.42	125.29
12	E8	201	CYC	C2D-C1D-ND	3.92	112.78	107.43
12	F6	202	CYC	CHA-C4D-C3D	-3.92	118.78	127.22
12	e7	201	CYC	CHD-C1D-ND	-3.92	116.42	125.29
12	F4	202	CYC	CMA-C3A-C4A	3.92	131.19	125.10
12	L6	202	CYC	CHA-C4D-C3D	-3.92	118.79	127.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	V5	201	CYC	CMD-C2D-C1D	3.92	131.32	125.62
12	f7	201	CYC	CHD-C1D-ND	-3.92	116.43	125.29
12	K9	201	CYC	C1D-C2D-C3D	-3.92	102.85	107.76
12	Y4	201	CYC	CHA-C4D-C3D	-3.92	118.79	127.22
12	Y8	201	CYC	CHA-C4D-C3D	-3.92	118.79	127.22
12	g7	201	CYC	CHD-C1D-ND	-3.92	116.43	125.29
12	S4	202	CYC	CMA-C3A-C4A	3.92	131.19	125.10
12	L4	201	CYC	CAB-C3B-C4B	3.92	127.43	121.37
12	K2	201	CYC	C2D-C1D-ND	3.92	112.78	107.43
12	JA	201	CYC	CAB-C3B-C4B	3.92	127.43	121.37
12	J9	201	CYC	CAB-C3B-C4B	3.92	127.43	121.37
12	ZA	201	CYC	C1B-C2B-C3B	-3.92	103.83	107.86
12	Z9	201	CYC	C1B-C2B-C3B	-3.92	103.83	107.86
12	D6	201	CYC	CMA-C3A-C4A	3.92	131.19	125.10
12	F2	201	CYC	CMA-C3A-C4A	3.92	131.19	125.10
12	U7	201	CYC	CHD-C1D-ND	-3.92	116.44	125.29
12	XA	202	CYC	CAB-C3B-C4B	3.92	127.43	121.37
12	X9	202	CYC	CAB-C3B-C4B	3.92	127.43	121.37
12	VA	202	CYC	CAB-C3B-C4B	3.92	127.43	121.37
12	Z4	301	CYC	CMA-C3A-C4A	3.92	131.18	125.10
12	Q7	201	CYC	CHD-C1D-ND	-3.92	116.44	125.29
12	Y4	201	CYC	CAB-C3B-C4B	3.92	127.43	121.37
12	Y8	201	CYC	CAB-C3B-C4B	3.92	127.43	121.37
12	C6	201	CYC	C2D-C1D-ND	3.92	112.77	107.43
12	C7	201	CYC	C1D-C2D-C3D	-3.91	102.86	107.76
12	X3	202	CYC	C1B-C2B-C3B	-3.91	103.84	107.86
12	T9	302	CYC	C1B-C2B-C3B	-3.91	103.84	107.86
12	X1	202	CYC	C1B-C2B-C3B	-3.91	103.84	107.86
12	Z8	301	CYC	CMA-C3A-C4A	3.91	131.18	125.10
12	k7	201	CYC	C1D-C2D-C3D	-3.91	102.86	107.76
12	T3	301	CYC	CMA-C3A-C4A	3.91	131.18	125.10
12	T1	301	CYC	CMA-C3A-C4A	3.91	131.18	125.10
12	Q9	201	CYC	C2D-C1D-ND	3.91	112.77	107.43
12	u7	201	CYC	CHD-C1D-ND	-3.91	116.45	125.29
12	M5	201	CYC	C1D-C2D-C3D	-3.91	102.86	107.76
12	Q8	201	CYC	C1B-C2B-C3B	-3.91	103.84	107.86
12	C2	201	CYC	C2D-C1D-ND	3.91	112.77	107.43
12	J6	201	CYC	CAB-C3B-C4B	3.91	127.42	121.37
12	U7	201	CYC	C1D-C2D-C3D	-3.91	102.87	107.76
12	M8	301	CYC	CMA-C3A-C4A	3.91	131.17	125.10
12	M5	201	CYC	CHD-C1D-ND	-3.91	116.45	125.29
12	D4	201	CYC	C1B-C2B-C3B	-3.91	103.84	107.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	L3	201	CYC	C1B-C2B-C3B	-3.91	103.84	107.86
12	D8	201	CYC	C1B-C2B-C3B	-3.91	103.84	107.86
12	L1	201	CYC	C1B-C2B-C3B	-3.91	103.84	107.86
12	o7	201	CYC	C1D-C2D-C3D	-3.91	102.87	107.76
12	EA	201	CYC	C1D-C2D-C3D	-3.91	102.87	107.76
12	E9	201	CYC	C1D-C2D-C3D	-3.91	102.87	107.76
12	k5	1202	CYC	CHD-C1D-ND	-3.91	116.46	125.29
12	G3	201	CYC	C2D-C1D-ND	3.91	112.76	107.43
12	G1	201	CYC	C2D-C1D-ND	3.91	112.76	107.43
12	F9	303	CYC	CAB-C3B-C4B	3.91	127.42	121.37
12	i7	201	CYC	C1D-C2D-C3D	-3.91	102.87	107.76
12	L3	201	CYC	CHA-C4D-C3D	-3.91	118.82	127.22
12	s7	201	CYC	C1D-C2D-C3D	-3.91	102.87	107.76
12	Y5	201	CYC	CHD-C4C-NC	3.91	130.51	125.63
12	KA	201	CYC	C2D-C1D-ND	3.91	112.76	107.43
12	L2	202	CYC	C1B-C2B-C3B	-3.91	103.85	107.86
12	D3	201	CYC	C1B-C2B-C3B	-3.91	103.85	107.86
12	D1	201	CYC	C1B-C2B-C3B	-3.91	103.85	107.86
12	Q5	201	CYC	CHD-C1D-ND	-3.91	116.46	125.29
12	O7	201	CYC	CHD-C1D-ND	-3.91	116.46	125.29
12	i7	201	CYC	CHD-C1D-ND	-3.91	116.46	125.29
12	E4	201	CYC	C2D-C1D-ND	3.91	112.76	107.43
12	P1	202	CYC	CAB-C3B-C4B	3.91	127.41	121.37
12	P3	202	CYC	CAB-C3B-C4B	3.91	127.41	121.37
12	p7	201	CYC	CHD-C1D-ND	-3.91	116.47	125.29
12	DA	202	CYC	CAB-C3B-C4B	3.91	127.41	121.37
12	D9	202	CYC	CAB-C3B-C4B	3.91	127.41	121.37
12	TA	302	CYC	C1B-C2B-C3B	-3.91	103.85	107.86
12	P9	202	CYC	CAB-C3B-C4B	3.90	127.41	121.37
12	V7	201	CYC	CHD-C1D-ND	-3.90	116.47	125.29
12	j5	1202	CYC	CHD-C1D-ND	-3.90	116.47	125.29
12	v7	201	CYC	CHD-C1D-ND	-3.90	116.47	125.29
12	T7	201	CYC	OC-C1C-C2C	-3.90	123.07	126.17
12	W5	201	CYC	CHD-C1D-ND	-3.90	116.48	125.29
12	P5	201	CYC	CMD-C2D-C1D	3.90	131.29	125.62
12	q7	201	CYC	C1D-C2D-C3D	-3.90	102.88	107.76
12	J4	202	CYC	CAB-C3B-C4B	3.90	127.40	121.37
12	V9	202	CYC	CAB-C3B-C4B	3.90	127.40	121.37
12	c7	201	CYC	C1D-C2D-C3D	-3.90	102.88	107.76
12	D2	201	CYC	CMA-C3A-C4A	3.90	131.15	125.10
12	O5	201	CYC	CHD-C1D-ND	-3.90	116.49	125.29
12	h7	201	CYC	CHD-C1D-ND	-3.90	116.49	125.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	s7	201	CYC	CHD-C1D-ND	-3.90	116.49	125.29
12	L2	202	CYC	CAB-C3B-C4B	3.90	127.40	121.37
12	R1	202	CYC	CAB-C3B-C4B	3.90	127.39	121.37
12	R3	202	CYC	CAB-C3B-C4B	3.90	127.39	121.37
12	D2	202	CYC	C1B-C2B-C3B	-3.90	103.86	107.86
12	L3	201	CYC	CAB-C3B-C4B	3.90	127.39	121.37
12	L1	201	CYC	CAB-C3B-C4B	3.90	127.39	121.37
12	a7	201	CYC	CHD-C1D-ND	-3.89	116.49	125.29
12	b7	201	CYC	CHD-C1D-ND	-3.89	116.49	125.29
12	o7	201	CYC	CHD-C1D-ND	-3.89	116.49	125.29
12	N4	201	CYC	C2D-C1D-ND	3.89	112.74	107.43
12	N8	201	CYC	C2D-C1D-ND	3.89	112.74	107.43
12	M8	302	CYC	CMA-C3A-C4A	3.89	131.15	125.10
12	m7	201	CYC	C1D-C2D-C3D	-3.89	102.89	107.76
12	K5	201	CYC	CHD-C1D-ND	-3.89	116.50	125.29
12	F2	201	CYC	C4A-C3A-C2A	-3.89	102.06	106.48
12	K9	201	CYC	C2D-C1D-ND	3.89	112.74	107.43
12	U5	201	CYC	CHD-C1D-ND	-3.89	116.50	125.29
12	O4	202	CYC	C1B-C2B-C3B	-3.89	103.86	107.86
12	O8	202	CYC	C1B-C2B-C3B	-3.89	103.86	107.86
12	d7	201	CYC	CMD-C2D-C1D	3.89	131.28	125.62
12	K5	201	CYC	CHD-C4C-NC	3.89	130.49	125.63
12	G2	201	CYC	C2D-C1D-ND	3.89	112.74	107.43
12	e7	201	CYC	C1D-C2D-C3D	-3.89	102.89	107.76
12	D5	201	CYC	CHD-C1D-ND	-3.89	116.50	125.29
12	E5	201	CYC	CHD-C1D-ND	-3.89	116.50	125.29
12	W3	201	CYC	C2D-C1D-ND	3.89	112.74	107.43
12	W1	201	CYC	C2D-C1D-ND	3.89	112.74	107.43
12	L6	202	CYC	CAB-C3B-C4B	3.89	127.39	121.37
12	T3	301	CYC	C4A-C3A-C2A	-3.89	102.06	106.48
12	T1	301	CYC	C4A-C3A-C2A	-3.89	102.06	106.48
12	J5	201	CYC	CHD-C1D-ND	-3.89	116.50	125.29
12	N7	201	CYC	CHD-C1D-ND	-3.89	116.51	125.29
12	Q1	201	CYC	C2D-C1D-ND	3.89	112.73	107.43
12	G4	201	CYC	C2D-C1D-ND	3.89	112.73	107.43
12	G8	201	CYC	C2D-C1D-ND	3.89	112.73	107.43
12	T3	302	CYC	C1B-C2B-C3B	-3.89	103.87	107.86
12	T1	302	CYC	C1B-C2B-C3B	-3.89	103.87	107.86
12	j7	201	CYC	OC-C1C-C2C	-3.89	123.08	126.17
12	f7	201	CYC	OC-C1C-C2C	-3.89	123.08	126.17
12	O7	201	CYC	C1D-C2D-C3D	-3.89	102.90	107.76
12	E7	201	CYC	CHD-C1D-ND	-3.89	116.51	125.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	I6	201	CYC	C1D-C2D-C3D	-3.88	102.90	107.76
12	Z5	201	CYC	CHD-C1D-ND	-3.88	116.51	125.29
12	E2	201	CYC	C2D-C1D-ND	3.88	112.73	107.43
12	K7	201	CYC	C1D-C2D-C3D	-3.88	102.90	107.76
12	IA	201	CYC	C2D-C1D-ND	3.88	112.73	107.43
12	D3	201	CYC	CAB-C3B-C4B	3.88	127.37	121.37
12	D1	201	CYC	CAB-C3B-C4B	3.88	127.37	121.37
12	K7	201	CYC	CHD-C1D-ND	-3.88	116.52	125.29
12	PA	202	CYC	CAB-C3B-C4B	3.88	127.37	121.37
12	C4	201	CYC	C1D-C2D-C3D	-3.88	102.90	107.76
12	a5	201	CYC	C1D-C2D-C3D	-3.88	102.90	107.76
12	C8	201	CYC	C1D-C2D-C3D	-3.88	102.90	107.76
12	Y7	201	CYC	C1D-C2D-C3D	-3.88	102.91	107.76
12	S7	201	CYC	CHD-C1D-ND	-3.88	116.52	125.29
12	P7	201	CYC	CHD-C1D-ND	-3.88	116.52	125.29
12	E6	201	CYC	C2D-C1D-ND	3.88	112.72	107.43
12	c5	201	CYC	CHD-C4C-NC	3.88	130.47	125.63
12	X3	202	CYC	CAB-C3B-C4B	3.88	127.37	121.37
12	X1	202	CYC	CAB-C3B-C4B	3.88	127.37	121.37
12	OA	201	CYC	OC-C1C-C2C	-3.88	123.09	126.17
12	d5	201	CYC	CHD-C1D-ND	-3.88	116.53	125.29
12	k5	1204	CYC	CHD-C1D-ND	-3.88	116.53	125.29
12	R4	201	CYC	C1D-C2D-C3D	-3.88	102.91	107.76
12	K6	201	CYC	C1D-C2D-C3D	-3.88	102.91	107.76
12	R8	201	CYC	C1D-C2D-C3D	-3.88	102.91	107.76
12	W7	201	CYC	CHD-C4C-NC	3.88	130.47	125.63
12	V3	202	CYC	CAB-C3B-C4B	3.88	127.37	121.37
12	V1	202	CYC	CAB-C3B-C4B	3.88	127.37	121.37
12	T5	201	CYC	OC-C1C-C2C	-3.88	123.09	126.17
12	G5	201	CYC	CHD-C1D-ND	-3.88	116.53	125.29
12	Q7	201	CYC	CHD-C4C-NC	3.88	130.47	125.63
12	m7	201	CYC	CHD-C1D-ND	-3.88	116.53	125.29
12	H5	201	CYC	CHD-C1D-ND	-3.88	116.53	125.29
12	ZA	201	CYC	CAB-C3B-C4B	3.88	127.36	121.37
12	Z9	201	CYC	CAB-C3B-C4B	3.88	127.36	121.37
12	Q3	201	CYC	C2D-C1D-ND	3.88	112.72	107.43
12	f5	201	CYC	CHD-C1D-ND	-3.87	116.53	125.29
12	A4	201	CYC	C2D-C1D-ND	3.87	112.72	107.43
12	A8	201	CYC	C2D-C1D-ND	3.87	112.72	107.43
12	HA	201	CYC	CAB-C3B-C4B	3.87	127.36	121.37
12	H9	201	CYC	CAB-C3B-C4B	3.87	127.36	121.37
12	D6	202	CYC	C1B-C2B-C3B	-3.87	103.88	107.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	E5	201	CYC	CHD-C4C-NC	3.87	130.47	125.63
12	v7	201	CYC	CMD-C2D-C1D	3.87	131.25	125.62
12	K4	201	CYC	C2D-C1D-ND	3.87	112.71	107.43
12	K8	201	CYC	C2D-C1D-ND	3.87	112.71	107.43
12	N4	201	CYC	C1D-C2D-C3D	-3.87	102.92	107.76
12	M7	201	CYC	C1D-C2D-C3D	-3.87	102.92	107.76
12	N8	201	CYC	C1D-C2D-C3D	-3.87	102.92	107.76
12	A5	201	CYC	CHD-C1D-ND	-3.87	116.54	125.29
12	c7	201	CYC	CHD-C1D-ND	-3.87	116.54	125.29
12	K4	201	CYC	C1D-C2D-C3D	-3.87	102.92	107.76
12	K8	201	CYC	C1D-C2D-C3D	-3.87	102.92	107.76
12	C3	201	CYC	C2D-C1D-ND	3.87	112.71	107.43
12	C1	201	CYC	C2D-C1D-ND	3.87	112.71	107.43
12	B5	201	CYC	CHD-C1D-ND	-3.87	116.55	125.29
12	b5	201	CYC	CMD-C2D-C1D	3.87	131.24	125.62
12	f5	201	CYC	CMD-C2D-C1D	3.87	131.24	125.62
12	H6	202	CYC	CAB-C3B-C4B	3.87	127.35	121.37
12	H7	201	CYC	CHD-C1D-ND	-3.87	116.55	125.29
12	I9	201	CYC	C2D-C1D-ND	3.87	112.70	107.43
12	I7	201	CYC	CHD-C1D-ND	-3.87	116.55	125.29
12	B7	201	CYC	CHD-C1D-ND	-3.87	116.56	125.29
12	H7	201	CYC	CMD-C2D-C1D	3.87	131.24	125.62
12	W4	202	CYC	CAB-C3B-C4B	3.87	127.35	121.37
12	W8	202	CYC	CAB-C3B-C4B	3.87	127.35	121.37
12	Z	201	CYC	CHD-C1D-ND	-3.87	116.56	125.29
12	YA	201	CYC	C2D-C1D-ND	3.87	112.70	107.43
12	Y9	201	CYC	C2D-C1D-ND	3.87	112.70	107.43
12	j7	201	CYC	CMD-C2D-C1D	3.86	131.24	125.62
12	Y3	201	CYC	C2D-C1D-ND	3.86	112.70	107.43
12	Y1	201	CYC	C2D-C1D-ND	3.86	112.70	107.43
12	g7	201	CYC	C4A-C3A-C2A	-3.86	102.09	106.48
12	i7	201	CYC	C4A-C3A-C2A	-3.86	102.09	106.48
12	S7	201	CYC	CHD-C4C-NC	3.86	130.45	125.63
12	CA	201	CYC	C2D-C1D-ND	3.86	112.70	107.43
12	C9	201	CYC	C2D-C1D-ND	3.86	112.70	107.43
12	A	201	CYC	CHD-C1D-ND	-3.86	116.57	125.29
12	u7	201	CYC	CHD-C4C-NC	3.86	130.45	125.63
12	Q1	201	CYC	C1D-C2D-C3D	-3.86	102.93	107.76
12	b5	201	CYC	CHD-C1D-ND	-3.86	116.57	125.29
12	Z3	202	CYC	CAB-C3B-C4B	3.86	127.34	121.37
12	Z1	201	CYC	CAB-C3B-C4B	3.86	127.34	121.37
12	B5	201	CYC	OC-C1C-C2C	-3.86	123.10	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G7	201	CYC	C1D-C2D-C3D	-3.86	102.93	107.76
12	W7	201	CYC	CHD-C1D-ND	-3.86	116.57	125.29
12	F5	201	CYC	CMD-C2D-C1D	3.86	131.23	125.62
12	k5	1203	CYC	CMD-C2D-C1D	3.86	131.23	125.62
12	Q3	201	CYC	C1D-C2D-C3D	-3.86	102.94	107.76
12	H4	202	CYC	CAB-C3B-C4B	3.86	127.33	121.37
12	H8	202	CYC	CAB-C3B-C4B	3.86	127.33	121.37
12	T7	201	CYC	CHD-C1D-ND	-3.86	116.58	125.29
12	Z5	201	CYC	CMD-C2D-C1D	3.86	131.22	125.62
12	C7	201	CYC	CHD-C1D-ND	-3.86	116.58	125.29
12	AA	201	CYC	C2D-C1D-ND	3.85	112.69	107.43
12	A9	201	CYC	C2D-C1D-ND	3.85	112.69	107.43
12	R7	201	CYC	CHD-C1D-ND	-3.85	116.58	125.29
12	H5	201	CYC	CMD-C2D-C1D	3.85	131.22	125.62
12	F5	201	CYC	CHD-C1D-ND	-3.85	116.58	125.29
12	OA	201	CYC	C2D-C1D-ND	3.85	112.69	107.43
12	O9	201	CYC	C2D-C1D-ND	3.85	112.69	107.43
12	r7	201	CYC	OC-C1C-C2C	-3.85	123.11	126.17
12	O5	201	CYC	C1D-C2D-C3D	-3.85	102.94	107.76
12	P4	201	CYC	C2D-C1D-ND	3.85	112.69	107.43
12	C3	201	CYC	C1D-C2D-C3D	-3.85	102.94	107.76
12	C1	201	CYC	C1D-C2D-C3D	-3.85	102.94	107.76
12	V5	201	CYC	CHD-C1D-ND	-3.85	116.59	125.29
12	SA	201	CYC	C2D-C1D-ND	3.85	112.68	107.43
12	S9	201	CYC	C2D-C1D-ND	3.85	112.68	107.43
12	WA	201	CYC	C1D-C2D-C3D	-3.85	102.94	107.76
12	W9	201	CYC	C1D-C2D-C3D	-3.85	102.94	107.76
12	YA	201	CYC	C1D-C2D-C3D	-3.85	102.94	107.76
12	Y9	201	CYC	C1D-C2D-C3D	-3.85	102.94	107.76
12	S4	201	CYC	CAB-C3B-C4B	3.85	127.32	121.37
12	S8	201	CYC	CAB-C3B-C4B	3.85	127.32	121.37
12	A7	201	CYC	CHD-C1D-ND	-3.85	116.59	125.29
12	K2	201	CYC	C1D-C2D-C3D	-3.85	102.94	107.76
12	M7	201	CYC	CHD-C1D-ND	-3.85	116.59	125.29
12	A6	201	CYC	C1D-C2D-C3D	-3.85	102.95	107.76
12	S1	201	CYC	C2D-C1D-ND	3.85	112.68	107.43
12	S3	201	CYC	C2D-C1D-ND	3.85	112.68	107.43
12	YA	201	CYC	C2B-C1B-NB	3.85	112.58	106.97
12	Y9	201	CYC	C2B-C1B-NB	3.85	112.58	106.97
12	H2	202	CYC	CAB-C3B-C4B	3.85	127.32	121.37
12	L5	201	CYC	CHD-C1D-ND	-3.85	116.60	125.29
12	j7	201	CYC	CHD-C1D-ND	-3.85	116.60	125.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	T5	201	CYC	CHD-C1D-ND	-3.85	116.60	125.29
12	J7	201	CYC	CHD-C1D-ND	-3.85	116.60	125.29
12	k7	201	CYC	CHD-C4C-NC	3.85	130.43	125.63
12	k5	1203	CYC	CHD-C1D-ND	-3.84	116.60	125.29
12	i7	201	CYC	CHD-C4C-NC	3.84	130.43	125.63
12	P8	201	CYC	C2D-C1D-ND	3.84	112.67	107.43
12	C5	201	CYC	CHD-C1D-ND	-3.84	116.61	125.29
12	Q5	201	CYC	CHD-C4C-NC	3.84	130.43	125.63
12	o7	201	CYC	CHD-C4C-NC	3.84	130.43	125.63
12	T4	201	CYC	OC-C1C-C2C	-3.84	123.12	126.17
12	P7	201	CYC	OC-C1C-C2C	-3.84	123.12	126.17
12	T8	201	CYC	OC-C1C-C2C	-3.84	123.12	126.17
12	O9	201	CYC	OC-C1C-C2C	-3.84	123.12	126.17
12	I5	201	CYC	C1D-C2D-C3D	-3.84	102.95	107.76
12	VA	201	CYC	CMB-C2B-C1B	3.84	128.83	124.16
12	V9	201	CYC	CMB-C2B-C1B	3.84	128.83	124.16
12	WA	201	CYC	C2D-C1D-ND	3.84	112.67	107.43
12	W9	201	CYC	C2D-C1D-ND	3.84	112.67	107.43
12	LA	201	CYC	CAB-C3B-C4B	3.84	127.31	121.37
12	L9	201	CYC	CAB-C3B-C4B	3.84	127.31	121.37
12	K7	201	CYC	CHD-C4C-NC	3.84	130.43	125.63
12	C2	201	CYC	C1D-C2D-C3D	-3.84	102.95	107.76
12	H5	201	CYC	OC-C1C-C2C	-3.84	123.12	126.17
12	X4	201	CYC	C2D-C1D-ND	3.84	112.67	107.43
12	X8	201	CYC	C2D-C1D-ND	3.84	112.67	107.43
12	R5	201	CYC	CHD-C1D-ND	-3.84	116.61	125.29
12	DA	202	CYC	C1B-C2B-C3B	-3.84	103.92	107.86
12	D9	202	CYC	C1B-C2B-C3B	-3.84	103.92	107.86
12	D7	201	CYC	CHD-C1D-ND	-3.84	116.61	125.29
12	Y3	201	CYC	C1D-C2D-C3D	-3.84	102.96	107.76
12	Y1	201	CYC	C1D-C2D-C3D	-3.84	102.96	107.76
12	A5	201	CYC	C1D-C2D-C3D	-3.84	102.96	107.76
12	p7	201	CYC	CMD-C2D-C1D	3.84	131.20	125.62
12	F7	201	CYC	CHD-C1D-ND	-3.84	116.62	125.29
12	F7	201	CYC	CMD-C2D-C1D	3.84	131.20	125.62
12	r7	201	CYC	CMD-C2D-C1D	3.84	131.20	125.62
12	U7	201	CYC	CHD-C4C-NC	3.84	130.42	125.63
12	G6	201	CYC	C2D-C1D-ND	3.84	112.67	107.43
12	F7	201	CYC	OC-C1C-C2C	-3.84	123.12	126.17
12	c7	201	CYC	CHD-C4C-NC	3.84	130.42	125.63
12	X7	201	CYC	CHD-C1D-ND	-3.84	116.62	125.29
12	r7	201	CYC	CHD-C1D-ND	-3.84	116.62	125.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	GA	201	CYC	C2B-C1B-NB	3.84	112.56	106.97
12	G9	201	CYC	C2B-C1B-NB	3.84	112.56	106.97
12	N5	201	CYC	CMD-C2D-C1D	3.84	131.19	125.62
12	D5	201	CYC	CMD-C2D-C1D	3.84	131.19	125.62
12	U5	201	CYC	C1D-C2D-C3D	-3.83	102.96	107.76
12	A1	201	CYC	C2D-C1D-ND	3.83	112.66	107.43
12	A3	201	CYC	C2D-C1D-ND	3.83	112.66	107.43
12	L7	201	CYC	CHD-C1D-ND	-3.83	116.63	125.29
12	F3	202	CYC	CAB-C3B-C4B	3.83	127.30	121.37
12	F1	202	CYC	CAB-C3B-C4B	3.83	127.30	121.37
12	a5	201	CYC	CHD-C1D-ND	-3.83	116.63	125.29
12	R7	201	CYC	CMD-C2D-C1D	3.83	131.19	125.62
12	c7	201	CYC	C4A-C3A-C2A	-3.83	102.13	106.48
12	G3	201	CYC	C1D-C2D-C3D	-3.83	102.97	107.76
12	G1	201	CYC	C1D-C2D-C3D	-3.83	102.97	107.76
12	P5	201	CYC	CHD-C1D-ND	-3.83	116.63	125.29
12	d5	201	CYC	CMD-C2D-C1D	3.83	131.19	125.62
12	I5	201	CYC	CHD-C1D-ND	-3.83	116.63	125.29
12	G7	201	CYC	CHD-C1D-ND	-3.83	116.63	125.29
12	A7	201	CYC	C1D-C2D-C3D	-3.83	102.97	107.76
12	CA	201	CYC	C1D-C2D-C3D	-3.83	102.97	107.76
12	C9	201	CYC	C1D-C2D-C3D	-3.83	102.97	107.76
12	X5	201	CYC	CHD-C1D-ND	-3.83	116.64	125.29
12	A	201	CYC	CMD-C2D-C1D	3.83	131.19	125.62
12	P8	201	CYC	C1D-C2D-C3D	-3.83	102.97	107.76
12	C6	201	CYC	C1D-C2D-C3D	-3.83	102.97	107.76
12	B5	201	CYC	CMD-C2D-C1D	3.83	131.18	125.62
12	e7	201	CYC	CHD-C4C-NC	3.83	130.41	125.63
12	N5	201	CYC	CHD-C1D-ND	-3.83	116.64	125.29
12	A2	201	CYC	C1D-C2D-C3D	-3.83	102.97	107.76
12	d7	201	CYC	OC-C1C-C2C	-3.83	123.13	126.17
12	G5	201	CYC	C1D-C2D-C3D	-3.83	102.97	107.76
12	R4	201	CYC	C2B-C1B-NB	3.82	112.54	106.97
12	R8	201	CYC	C2B-C1B-NB	3.82	112.54	106.97
12	O1	201	CYC	C2D-C1D-ND	3.82	112.65	107.43
12	O3	201	CYC	C2D-C1D-ND	3.82	112.65	107.43
12	X7	201	CYC	CMD-C2D-C1D	3.82	131.18	125.62
12	A4	201	CYC	C1D-C2D-C3D	-3.82	102.98	107.76
12	A8	201	CYC	C1D-C2D-C3D	-3.82	102.98	107.76
12	d7	201	CYC	CHD-C1D-ND	-3.82	116.65	125.29
12	e5	201	CYC	CHD-C1D-ND	-3.82	116.66	125.29
12	I6	201	CYC	C2D-C1D-ND	3.82	112.64	107.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	D7	201	CYC	CMD-C2D-C1D	3.82	131.17	125.62
12	E7	201	CYC	CHD-C4C-NC	3.82	130.40	125.63
12	I2	201	CYC	C2D-C1D-ND	3.82	112.64	107.43
12	a7	201	CYC	C4A-C3A-C2A	-3.82	102.14	106.48
12	W5	201	CYC	CHD-C4C-NC	3.82	130.40	125.63
12	P4	201	CYC	C1D-C2D-C3D	-3.82	102.98	107.76
12	C5	201	CYC	C1D-C2D-C3D	-3.82	102.98	107.76
12	H3	201	CYC	CAB-C3B-C4B	3.82	127.27	121.37
12	H1	202	CYC	CAB-C3B-C4B	3.82	127.27	121.37
12	T5	201	CYC	CMD-C2D-C1D	3.82	131.17	125.62
12	P7	201	CYC	CMD-C2D-C1D	3.82	131.17	125.62
12	X5	201	CYC	CMD-C2D-C1D	3.82	131.17	125.62
12	N5	201	CYC	OC-C1C-C2C	-3.82	123.14	126.17
12	UA	201	CYC	C2D-C1D-ND	3.81	112.63	107.43
12	U9	201	CYC	C2D-C1D-ND	3.81	112.63	107.43
12	QA	201	CYC	C1D-C2D-C3D	-3.81	102.99	107.76
12	U4	202	CYC	CAB-C3B-C4B	3.81	127.27	121.37
12	U8	202	CYC	CAB-C3B-C4B	3.81	127.27	121.37
12	E8	201	CYC	C1D-C2D-C3D	-3.81	102.99	107.76
12	L7	201	CYC	CMD-C2D-C1D	3.81	131.16	125.62
12	R5	201	CYC	CMD-C2D-C1D	3.81	131.16	125.62
12	F8	202	CYC	CMB-C2B-C1B	3.81	128.79	124.16
12	E2	201	CYC	C1D-C2D-C3D	-3.81	102.99	107.76
12	B7	201	CYC	CMD-C2D-C1D	3.81	131.16	125.62
12	K3	201	CYC	C1D-C2D-C3D	-3.81	103.00	107.76
12	K1	201	CYC	C1D-C2D-C3D	-3.81	103.00	107.76
12	Y7	201	CYC	CHD-C4C-NC	3.81	130.38	125.63
12	XA	201	CYC	CMB-C2B-C1B	3.81	128.79	124.16
12	Z4	301	CYC	CMB-C2B-C1B	3.81	128.79	124.16
12	A2	201	CYC	C2B-C1B-NB	3.80	112.52	106.97
12	E6	201	CYC	C1D-C2D-C3D	-3.80	103.00	107.76
12	s7	201	CYC	CHD-C4C-NC	3.80	130.38	125.63
12	T4	201	CYC	C2D-C1D-ND	3.80	112.62	107.43
12	T8	201	CYC	C2D-C1D-ND	3.80	112.62	107.43
12	F4	201	CYC	C1B-C2B-C3B	-3.80	103.95	107.86
12	F8	201	CYC	C1B-C2B-C3B	-3.80	103.95	107.86
12	X4	201	CYC	C1D-C2D-C3D	-3.80	103.00	107.76
12	X8	201	CYC	C1D-C2D-C3D	-3.80	103.00	107.76
12	O7	201	CYC	CHD-C4C-NC	3.80	130.38	125.63
12	F3	201	CYC	CMB-C2B-C1B	3.80	128.78	124.16
12	A1	201	CYC	C1D-C2D-C3D	-3.80	103.00	107.76
12	A3	201	CYC	C1D-C2D-C3D	-3.80	103.00	107.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	V7	201	CYC	CMD-C2D-C1D	3.80	131.15	125.62
12	B1	202	CYC	CMB-C2B-C1B	3.80	128.78	124.16
12	S5	201	CYC	CHD-C4C-NC	3.80	130.38	125.63
12	Z	201	CYC	CMD-C2D-C1D	3.80	131.14	125.62
12	A6	201	CYC	OC-C1C-C2C	-3.80	123.15	126.17
12	Q9	201	CYC	C1D-C2D-C3D	-3.80	103.01	107.76
12	q7	201	CYC	CHD-C4C-NC	3.80	130.37	125.63
12	F6	202	CYC	C1B-C2B-C3B	-3.80	103.96	107.86
12	k5	1203	CYC	OC-C1C-C2C	-3.79	123.16	126.17
12	L5	201	CYC	OC-C1C-C2C	-3.79	123.16	126.17
12	K3	201	CYC	C2D-C1D-ND	3.79	112.60	107.43
12	K1	201	CYC	C2D-C1D-ND	3.79	112.60	107.43
12	E4	201	CYC	C1D-C2D-C3D	-3.79	103.02	107.76
12	D4	202	CYC	CMB-C2B-C1B	3.79	128.77	124.16
12	D8	202	CYC	CMB-C2B-C1B	3.79	128.77	124.16
12	H9	202	CYC	CMB-C2B-C1B	3.79	128.77	124.16
12	B3	202	CYC	CMB-C2B-C1B	3.79	128.77	124.16
12	A	201	CYC	OC-C1C-C2C	-3.79	123.16	126.17
12	EA	201	CYC	C2B-C1B-NB	3.79	112.49	106.97
12	J5	201	CYC	CMD-C2D-C1D	3.79	131.13	125.62
12	OA	201	CYC	C1D-C2D-C3D	-3.79	103.02	107.76
12	O9	201	CYC	C1D-C2D-C3D	-3.79	103.02	107.76
12	j5	1201	CYC	C1D-CHD-C4C	3.79	134.23	127.76
12	J5	201	CYC	C1B-NB-C4B	-3.79	106.01	110.66
12	J3	201	CYC	CAB-C3B-C4B	3.79	127.23	121.37
12	J1	201	CYC	CAB-C3B-C4B	3.79	127.23	121.37
12	V3	201	CYC	CMB-C2B-C1B	3.79	128.76	124.16
12	X9	201	CYC	CMB-C2B-C1B	3.79	128.76	124.16
12	V1	201	CYC	CMB-C2B-C1B	3.79	128.76	124.16
12	Z	201	CYC	OC-C1C-C2C	-3.79	123.16	126.17
12	L7	201	CYC	OC-C1C-C2C	-3.79	123.16	126.17
12	m7	201	CYC	CHD-C4C-NC	3.79	130.36	125.63
12	F1	201	CYC	CMB-C2B-C1B	3.78	128.76	124.16
12	Z5	201	CYC	OC-C1C-C2C	-3.78	123.16	126.17
12	C7	201	CYC	CHD-C4C-NC	3.78	130.35	125.63
12	j5	1202	CYC	OC-C1C-C2C	-3.78	123.17	126.17
12	T7	201	CYC	CMD-C2D-C1D	3.78	131.12	125.62
12	D5	201	CYC	C2B-C1B-NB	3.78	112.48	106.97
12	E2	201	CYC	C2B-C1B-NB	3.78	112.48	106.97
12	O7	201	CYC	C4A-C3A-C2A	-3.78	102.19	106.48
12	Z8	301	CYC	CHD-C1D-ND	-3.78	116.75	125.29
12	W3	201	CYC	C1D-C2D-C3D	-3.78	103.03	107.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	W1	201	CYC	C1D-C2D-C3D	-3.78	103.03	107.76
12	J5	201	CYC	C2B-C1B-NB	3.78	112.48	106.97
12	S4	202	CYC	CHD-C1D-ND	-3.78	116.75	125.29
12	D2	201	CYC	CHD-C1D-ND	-3.78	116.75	125.29
12	k5	1202	CYC	CMD-C2D-C1D	3.78	131.11	125.62
12	j5	1202	CYC	CMD-C2D-C1D	3.78	131.11	125.62
12	KA	201	CYC	C2B-C1B-NB	3.77	112.47	106.97
12	K9	201	CYC	C2B-C1B-NB	3.77	112.47	106.97
12	U5	201	CYC	CHD-C4C-NC	3.77	130.34	125.63
12	b5	201	CYC	OC-C1C-C2C	-3.77	123.17	126.17
12	G8	201	CYC	C1D-C2D-C3D	-3.77	103.04	107.76
12	c5	201	CYC	C4A-C3A-C2A	-3.77	102.19	106.48
12	Y5	201	CYC	C4A-C3A-C2A	-3.77	102.19	106.48
12	M8	302	CYC	CHD-C1D-ND	-3.77	116.77	125.29
12	O5	201	CYC	CHD-C4C-NC	3.77	130.34	125.63
12	H4	201	CYC	CMB-C2B-C1B	3.77	128.75	124.16
12	H8	201	CYC	CMB-C2B-C1B	3.77	128.75	124.16
12	k5	1201	CYC	C1D-CHD-C4C	3.77	134.21	127.76
12	E1	201	CYC	C2D-C1D-ND	3.77	112.58	107.43
12	G5	201	CYC	C4A-C3A-C2A	-3.77	102.19	106.48
12	F9	303	CYC	C1B-C2B-C3B	-3.77	103.99	107.86
12	I3	201	CYC	C1D-C2D-C3D	-3.77	103.04	107.76
12	I1	201	CYC	C1D-C2D-C3D	-3.77	103.04	107.76
12	IA	201	CYC	C1D-C2D-C3D	-3.77	103.04	107.76
12	E6	201	CYC	C2B-C1B-NB	3.77	112.46	106.97
12	T4	201	CYC	C1D-C2D-C3D	-3.77	103.05	107.76
12	T8	201	CYC	C1D-C2D-C3D	-3.77	103.05	107.76
12	A7	201	CYC	CHD-C4C-NC	3.77	130.34	125.63
12	F4	202	CYC	CMB-C2B-C1B	3.77	128.74	124.16
12	SA	201	CYC	C1D-C2D-C3D	-3.77	103.05	107.76
12	S9	201	CYC	C1D-C2D-C3D	-3.77	103.05	107.76
12	BA	201	CYC	CHD-C1D-ND	-3.77	116.78	125.29
12	B9	201	CYC	CHD-C1D-ND	-3.77	116.78	125.29
12	k5	1204	CYC	CMD-C2D-C1D	3.77	131.09	125.62
12	A5	201	CYC	C4A-C3A-C2A	-3.77	102.20	106.48
12	E8	201	CYC	C2B-C1B-NB	3.77	112.46	106.97
12	X3	201	CYC	CHD-C1D-ND	-3.76	116.78	125.29
12	Z4	301	CYC	CHD-C1D-ND	-3.76	116.78	125.29
12	LA	202	CYC	CMB-C2B-C1B	3.76	128.74	124.16
12	H3	202	CYC	CMB-C2B-C1B	3.76	128.74	124.16
12	A6	201	CYC	C2D-C1D-ND	3.76	112.56	107.43
12	F9	302	CYC	C1B-C2B-C3B	-3.76	103.99	107.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	f5	201	CYC	OC-C1C-C2C	-3.76	123.18	126.17
12	R7	201	CYC	OC-C1C-C2C	-3.76	123.18	126.17
12	A6	201	CYC	C2B-C1B-NB	3.76	112.45	106.97
12	p7	201	CYC	C2B-C1B-NB	3.76	112.45	106.97
12	U3	201	CYC	C1D-C2D-C3D	-3.76	103.05	107.76
12	U1	201	CYC	C1D-C2D-C3D	-3.76	103.05	107.76
12	K7	201	CYC	C4A-C3A-C2A	-3.76	102.21	106.48
12	V7	201	CYC	OC-C1C-C2C	-3.76	123.18	126.17
12	V4	201	CYC	C2D-C1D-ND	3.76	112.56	107.43
12	V8	201	CYC	C2D-C1D-ND	3.76	112.56	107.43
12	A4	201	CYC	OC-C1C-C2C	-3.76	123.18	126.17
12	A8	201	CYC	OC-C1C-C2C	-3.76	123.18	126.17
12	H1	201	CYC	CMB-C2B-C1B	3.76	128.73	124.16
12	E9	201	CYC	C2B-C1B-NB	3.76	112.45	106.97
12	J7	201	CYC	CMD-C2D-C1D	3.76	131.08	125.62
12	E3	201	CYC	C2D-C1D-ND	3.76	112.56	107.43
12	E4	201	CYC	C2B-C1B-NB	3.76	112.45	106.97
12	f7	201	CYC	CMD-C2D-C1D	3.76	131.08	125.62
12	a5	201	CYC	C4A-C3A-C2A	-3.76	102.21	106.48
12	D6	201	CYC	CHD-C1D-ND	-3.76	116.80	125.29
12	C1	201	CYC	C2B-C1B-NB	3.76	112.44	106.97
12	Z9	202	CYC	CHD-C1D-ND	-3.76	116.80	125.29
12	C2	201	CYC	C2B-C1B-NB	3.76	112.44	106.97
12	ZA	202	CYC	CHD-C1D-ND	-3.76	116.80	125.29
12	N2	101	CYC	CHD-C1D-ND	-3.76	116.81	125.29
12	X1	201	CYC	CHD-C1D-ND	-3.76	116.81	125.29
12	Z8	301	CYC	CMB-C2B-C1B	3.75	128.73	124.16
12	M5	201	CYC	CHD-C4C-NC	3.75	130.32	125.63
12	N7	201	CYC	CMD-C2D-C1D	3.75	131.08	125.62
12	G4	201	CYC	C1D-C2D-C3D	-3.75	103.06	107.76
12	A7	201	CYC	C4A-C3A-C2A	-3.75	102.22	106.48
12	PA	201	CYC	CHD-C1D-ND	-3.75	116.81	125.29
12	P9	201	CYC	CHD-C1D-ND	-3.75	116.81	125.29
12	O1	201	CYC	C2B-C1B-NB	3.75	112.44	106.97
12	O3	201	CYC	C2B-C1B-NB	3.75	112.44	106.97
12	BA	201	CYC	CMB-C2B-C1B	3.75	128.72	124.16
12	B9	201	CYC	CMB-C2B-C1B	3.75	128.72	124.16
12	AA	201	CYC	C1D-C2D-C3D	-3.75	103.07	107.76
12	A9	201	CYC	C1D-C2D-C3D	-3.75	103.07	107.76
12	I9	201	CYC	C1D-C2D-C3D	-3.75	103.07	107.76
12	N2	101	CYC	CMB-C2B-C1B	3.75	128.72	124.16
12	U4	201	CYC	CMB-C2B-C1B	3.75	128.72	124.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	U8	201	CYC	CMB-C2B-C1B	3.75	128.72	124.16
12	K2	201	CYC	C2B-C1B-NB	3.75	112.44	106.97
12	J7	201	CYC	C1B-NB-C4B	-3.75	106.06	110.66
12	P1	201	CYC	CHD-C1D-ND	-3.75	116.82	125.29
12	U3	201	CYC	C2D-C1D-ND	3.75	112.54	107.43
12	U1	201	CYC	C2D-C1D-ND	3.75	112.54	107.43
12	W7	201	CYC	C4A-C3A-C2A	-3.75	102.22	106.48
12	G7	201	CYC	CHD-C4C-NC	3.75	130.31	125.63
12	K8	201	CYC	C2B-C1B-NB	3.75	112.43	106.97
12	N6	101	CYC	CHD-C1D-ND	-3.75	116.83	125.29
12	Z3	201	CYC	CHD-C1D-ND	-3.75	116.83	125.29
12	a9	901	CYC	CHD-C1D-ND	-3.75	116.83	125.29
12	Z1	202	CYC	CHD-C1D-ND	-3.75	116.83	125.29
12	J7	201	CYC	OC-C1C-C2C	-3.75	123.19	126.17
12	S7	201	CYC	C4A-C3A-C2A	-3.75	102.23	106.48
12	L9	202	CYC	CMB-C2B-C1B	3.74	128.71	124.16
12	I4	201	CYC	C2D-C1D-ND	3.74	112.54	107.43
12	I8	201	CYC	C2D-C1D-ND	3.74	112.54	107.43
12	D5	201	CYC	C1B-NB-C4B	-3.74	106.07	110.66
12	K3	201	CYC	C2B-C1B-NB	3.74	112.42	106.97
12	O9	201	CYC	C2B-C1B-NB	3.74	112.42	106.97
12	K1	201	CYC	C2B-C1B-NB	3.74	112.42	106.97
12	U4	201	CYC	CHD-C1D-ND	-3.74	116.83	125.29
12	U8	201	CYC	CHD-C1D-ND	-3.74	116.83	125.29
12	K3	201	CYC	OC-C1C-C2C	-3.74	123.20	126.17
12	O1	201	CYC	C1D-C2D-C3D	-3.74	103.08	107.76
12	O3	201	CYC	C1D-C2D-C3D	-3.74	103.08	107.76
12	R5	201	CYC	C2B-C1B-NB	3.74	112.42	106.97
12	h7	201	CYC	CMD-C2D-C1D	3.74	131.06	125.62
12	L4	202	CYC	CHD-C1D-ND	-3.74	116.84	125.29
12	G2	201	CYC	C1D-C2D-C3D	-3.74	103.08	107.76
12	A1	201	CYC	C2B-C1B-NB	3.74	112.42	106.97
12	A3	201	CYC	C2B-C1B-NB	3.74	112.42	106.97
12	P3	201	CYC	CHD-C1D-ND	-3.74	116.84	125.29
12	P7	201	CYC	C4D-C3D-C2D	-3.74	103.27	107.62
12	A2	201	CYC	OC-C1C-C2C	-3.74	123.20	126.17
12	C7	201	CYC	C4A-C3A-C2A	-3.74	102.23	106.48
12	aA	902	CYC	CHD-C1D-ND	-3.74	116.84	125.29
12	GA	201	CYC	C2D-C1D-ND	3.74	112.53	107.43
12	G9	201	CYC	C2D-C1D-ND	3.74	112.53	107.43
12	DA	201	CYC	CHD-C1D-ND	-3.74	116.84	125.29
12	D9	201	CYC	CHD-C1D-ND	-3.74	116.84	125.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	C3	201	CYC	C2B-C1B-NB	3.74	112.42	106.97
12	k5	1202	CYC	C2B-C1B-NB	3.74	112.42	106.97
12	V1	201	CYC	CHD-C1D-ND	-3.74	116.85	125.29
12	G6	201	CYC	C1D-C2D-C3D	-3.74	103.08	107.76
12	J3	202	CYC	CMB-C2B-C1B	3.74	128.70	124.16
12	H6	201	CYC	CMB-C2B-C1B	3.74	128.70	124.16
12	aA	901	CYC	CMB-C2B-C1B	3.74	128.70	124.16
12	C6	201	CYC	C2B-C1B-NB	3.74	112.41	106.97
12	A2	201	CYC	C2D-C1D-ND	3.74	112.53	107.43
12	J4	201	CYC	CHD-C1D-ND	-3.73	116.85	125.29
12	J8	201	CYC	CHD-C1D-ND	-3.73	116.85	125.29
12	RA	201	CYC	CHD-C1D-ND	-3.73	116.85	125.29
12	V7	201	CYC	C4D-C3D-C2D	-3.73	103.27	107.62
12	G4	201	CYC	OC-C1C-C2C	-3.73	123.20	126.17
12	CA	201	CYC	C2B-C1B-NB	3.73	112.41	106.97
12	C9	201	CYC	C2B-C1B-NB	3.73	112.41	106.97
12	M7	201	CYC	CHD-C4C-NC	3.73	130.29	125.63
12	UA	201	CYC	C1D-C2D-C3D	-3.73	103.09	107.76
12	U9	201	CYC	C1D-C2D-C3D	-3.73	103.09	107.76
12	H2	201	CYC	CMB-C2B-C1B	3.73	128.70	124.16
12	V4	201	CYC	C1D-C2D-C3D	-3.73	103.09	107.76
12	V3	201	CYC	CHD-C1D-ND	-3.73	116.86	125.29
12	I3	201	CYC	C2D-C1D-ND	3.73	112.52	107.43
12	I1	201	CYC	C2D-C1D-ND	3.73	112.52	107.43
12	k5	1204	CYC	OC-C1C-C2C	-3.73	123.21	126.17
12	QA	201	CYC	C2B-C1B-NB	3.73	112.41	106.97
12	Z	201	CYC	C1B-NB-C4B	-3.73	106.08	110.66
12	D7	201	CYC	C1B-NB-C4B	-3.73	106.08	110.66
12	f7	201	CYC	C2B-C1B-NB	3.73	112.41	106.97
12	E5	201	CYC	CMD-C2D-C1D	3.73	131.04	125.62
12	R9	201	CYC	CHD-C1D-ND	-3.73	116.86	125.29
12	F2	202	CYC	C1B-C2B-C3B	-3.73	104.03	107.86
12	E1	201	CYC	C1D-C2D-C3D	-3.73	103.09	107.76
12	HA	202	CYC	CMB-C2B-C1B	3.73	128.69	124.16
12	R1	201	CYC	CMB-C2B-C1B	3.73	128.69	124.16
12	R3	201	CYC	CMB-C2B-C1B	3.73	128.69	124.16
12	Q9	201	CYC	C2B-C1B-NB	3.73	112.40	106.97
12	N6	101	CYC	CMB-C2B-C1B	3.73	128.69	124.16
12	XA	201	CYC	CHD-C1D-ND	-3.73	116.87	125.29
12	X9	201	CYC	CHD-C1D-ND	-3.73	116.87	125.29
12	I7	201	CYC	CHD-C4C-NC	3.73	130.28	125.63
12	B4	202	CYC	CHD-C1D-ND	-3.73	116.87	125.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G7	201	CYC	C4A-C3A-C2A	-3.73	102.25	106.48
12	N4	201	CYC	OC-C1C-C2C	-3.73	123.21	126.17
12	N8	201	CYC	OC-C1C-C2C	-3.73	123.21	126.17
12	H1	201	CYC	CHD-C1D-ND	-3.73	116.87	125.29
12	E5	201	CYC	C4A-C3A-C2A	-3.73	102.25	106.48
12	E3	201	CYC	C1D-C2D-C3D	-3.72	103.10	107.76
12	M8	301	CYC	CHD-C1D-ND	-3.72	116.88	125.29
12	X4	201	CYC	C2B-C1B-NB	3.72	112.40	106.97
12	X5	201	CYC	C2B-C1B-NB	3.72	112.40	106.97
12	X8	201	CYC	C2B-C1B-NB	3.72	112.40	106.97
12	SA	201	CYC	C2B-C1B-NB	3.72	112.39	106.97
12	S9	201	CYC	C2B-C1B-NB	3.72	112.39	106.97
12	H3	202	CYC	CHD-C1D-ND	-3.72	116.88	125.29
12	B8	202	CYC	CHD-C1D-ND	-3.72	116.88	125.29
12	S1	201	CYC	C1D-C2D-C3D	-3.72	103.10	107.76
12	S3	201	CYC	C1D-C2D-C3D	-3.72	103.10	107.76
12	I4	201	CYC	C1D-C2D-C3D	-3.72	103.10	107.76
12	I8	201	CYC	C1D-C2D-C3D	-3.72	103.10	107.76
12	L3	202	CYC	CHD-C1D-ND	-3.72	116.88	125.29
12	K5	201	CYC	C4A-C3A-C2A	-3.72	102.25	106.48
12	I7	201	CYC	C4A-C3A-C2A	-3.72	102.25	106.48
12	G4	201	CYC	C2B-C1B-NB	3.72	112.39	106.97
12	G8	201	CYC	C2B-C1B-NB	3.72	112.39	106.97
12	X3	201	CYC	CMB-C2B-C1B	3.72	128.69	124.16
12	X1	201	CYC	CMB-C2B-C1B	3.72	128.69	124.16
12	S4	201	CYC	C1B-C2B-C3B	-3.72	104.04	107.86
12	S8	201	CYC	C1B-C2B-C3B	-3.72	104.04	107.86
12	h7	201	CYC	OC-C1C-C2C	-3.72	123.22	126.17
12	O4	201	CYC	CHD-C1D-ND	-3.72	116.89	125.29
12	O8	201	CYC	CHD-C1D-ND	-3.72	116.89	125.29
12	OA	201	CYC	C2B-C1B-NB	3.72	112.39	106.97
12	A	201	CYC	C4D-C3D-C2D	-3.72	103.29	107.62
12	E7	201	CYC	C4A-C3A-C2A	-3.72	102.25	106.48
12	C4	201	CYC	OC-C1C-C2C	-3.72	123.22	126.17
12	C8	201	CYC	OC-C1C-C2C	-3.72	123.22	126.17
12	V5	201	CYC	C4D-C3D-C2D	-3.72	103.29	107.62
12	K6	201	CYC	C2B-C1B-NB	3.72	112.39	106.97
12	W4	201	CYC	CHD-C1D-ND	-3.72	116.89	125.29
12	IA	201	CYC	C2B-C1B-NB	3.72	112.39	106.97
12	I9	201	CYC	C2B-C1B-NB	3.72	112.39	106.97
12	K4	201	CYC	OC-C1C-C2C	-3.72	123.22	126.17
12	K8	201	CYC	OC-C1C-C2C	-3.72	123.22	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	W8	201	CYC	CHD-C1D-ND	-3.72	116.89	125.29
12	K4	201	CYC	C2B-C1B-NB	3.72	112.39	106.97
12	F3	201	CYC	CHD-C1D-ND	-3.72	116.89	125.29
12	F1	201	CYC	CHD-C1D-ND	-3.72	116.89	125.29
12	e5	201	CYC	C4A-C3A-C2A	-3.72	102.26	106.48
12	G2	201	CYC	C2B-C1B-NB	3.72	112.39	106.97
12	ZA	202	CYC	CMB-C2B-C1B	3.72	128.68	124.16
12	Z9	202	CYC	CMB-C2B-C1B	3.72	128.68	124.16
12	U3	201	CYC	OC-C1C-C2C	-3.72	123.22	126.17
12	U1	201	CYC	OC-C1C-C2C	-3.72	123.22	126.17
12	J3	202	CYC	CHD-C1D-ND	-3.71	116.90	125.29
12	aA	901	CYC	CHD-C1D-ND	-3.71	116.90	125.29
12	N4	201	CYC	C2B-C1B-NB	3.71	112.38	106.97
12	A	201	CYC	C1B-NB-C4B	-3.71	106.10	110.66
12	D4	202	CYC	CHD-C1D-ND	-3.71	116.90	125.29
12	D8	202	CYC	CHD-C1D-ND	-3.71	116.90	125.29
12	S1	201	CYC	C2B-C1B-NB	3.71	112.38	106.97
12	S3	201	CYC	C2B-C1B-NB	3.71	112.38	106.97
12	U3	201	CYC	C2B-C1B-NB	3.71	112.38	106.97
12	v7	201	CYC	C2B-C1B-NB	3.71	112.38	106.97
12	U1	201	CYC	C2B-C1B-NB	3.71	112.38	106.97
12	G2	201	CYC	OC-C1C-C2C	-3.71	123.22	126.17
12	F5	201	CYC	OC-C1C-C2C	-3.71	123.22	126.17
12	D7	201	CYC	OC-C1C-C2C	-3.71	123.22	126.17
12	J9	202	CYC	CHD-C1D-ND	-3.71	116.90	125.29
12	S5	201	CYC	C4A-C3A-C2A	-3.71	102.27	106.48
12	O4	201	CYC	CMB-C2B-C1B	3.71	128.67	124.16
12	O8	201	CYC	CMB-C2B-C1B	3.71	128.67	124.16
12	a7	201	CYC	CHD-C4C-NC	3.71	130.26	125.63
12	J6	202	CYC	CHD-C1D-ND	-3.71	116.91	125.29
12	a5	201	CYC	CHD-C4C-NC	3.71	130.26	125.63
12	JA	202	CYC	CHD-C1D-ND	-3.71	116.91	125.29
12	I3	201	CYC	C2B-C1B-NB	3.71	112.37	106.97
12	I1	201	CYC	C2B-C1B-NB	3.71	112.37	106.97
12	Z	201	CYC	C4D-C3D-C2D	-3.71	103.31	107.62
12	B7	201	CYC	OC-C1C-C2C	-3.71	123.23	126.17
12	J2	202	CYC	CMB-C2B-C1B	3.71	128.67	124.16
12	T4	201	CYC	C2B-C1B-NB	3.71	112.37	106.97
12	T8	201	CYC	C2B-C1B-NB	3.71	112.37	106.97
12	L2	201	CYC	CHD-C1D-ND	-3.71	116.92	125.29
12	G6	201	CYC	C2B-C1B-NB	3.71	112.37	106.97
12	VA	202	CYC	CMD-C2D-C1D	3.70	131.00	125.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	V9	202	CYC	CMD-C2D-C1D	3.70	131.00	125.62
12	Z1	201	CYC	CMD-C2D-C1D	3.70	131.00	125.62
12	Q1	201	CYC	C2B-C1B-NB	3.70	112.37	106.97
12	Q3	201	CYC	C2B-C1B-NB	3.70	112.37	106.97
12	R7	201	CYC	C2B-C1B-NB	3.70	112.37	106.97
12	H4	201	CYC	CHD-C1D-ND	-3.70	116.92	125.29
12	H8	201	CYC	CHD-C1D-ND	-3.70	116.92	125.29
12	V8	201	CYC	C1D-C2D-C3D	-3.70	103.13	107.76
12	H6	201	CYC	CHD-C1D-ND	-3.70	116.92	125.29
12	u7	201	CYC	CMD-C2D-C1D	3.70	131.00	125.62
12	T3	301	CYC	CHD-C1D-ND	-3.70	116.93	125.29
12	K1	201	CYC	OC-C1C-C2C	-3.70	123.23	126.17
12	J2	202	CYC	CHD-C1D-ND	-3.70	116.93	125.29
12	T1	301	CYC	CHD-C1D-ND	-3.70	116.93	125.29
12	H9	202	CYC	CHD-C1D-ND	-3.70	116.93	125.29
12	UA	201	CYC	C2B-C1B-NB	3.70	112.36	106.97
12	U9	201	CYC	C2B-C1B-NB	3.70	112.36	106.97
12	D3	202	CYC	CHD-C1D-ND	-3.70	116.94	125.29
12	D1	202	CYC	CHD-C1D-ND	-3.70	116.94	125.29
12	k5	1203	CYC	C4D-C3D-C2D	-3.70	103.32	107.62
12	T3	301	CYC	CMB-C2B-C1B	3.70	128.66	124.16
12	T1	301	CYC	CMB-C2B-C1B	3.70	128.66	124.16
12	H7	201	CYC	OC-C1C-C2C	-3.70	123.23	126.17
12	F7	201	CYC	C4D-C3D-C2D	-3.70	103.32	107.62
12	b7	201	CYC	C2B-C1B-NB	3.70	112.36	106.97
12	N7	201	CYC	OC-C1C-C2C	-3.70	123.23	126.17
12	E3	201	CYC	OC-C1C-C2C	-3.69	123.24	126.17
12	E1	201	CYC	OC-C1C-C2C	-3.69	123.24	126.17
12	D7	201	CYC	C2B-C1B-NB	3.69	112.35	106.97
12	L7	201	CYC	C4D-C3D-C2D	-3.69	103.32	107.62
12	GA	201	CYC	C1D-C2D-C3D	-3.69	103.14	107.76
12	G9	201	CYC	C1D-C2D-C3D	-3.69	103.14	107.76
12	G8	201	CYC	OC-C1C-C2C	-3.69	123.24	126.17
12	FA	301	CYC	CMB-C2B-C1B	3.69	128.65	124.16
12	F9	301	CYC	CMB-C2B-C1B	3.69	128.65	124.16
12	b7	201	CYC	CMD-C2D-C1D	3.69	130.99	125.62
12	B1	202	CYC	CHD-C1D-ND	-3.69	116.95	125.29
12	K5	201	CYC	CMD-C2D-C1D	3.69	130.99	125.62
12	C5	201	CYC	CHD-C4C-NC	3.69	130.24	125.63
12	M4	301	CYC	CHD-C1D-ND	-3.69	116.95	125.29
12	F2	201	CYC	CHB-C4A-NA	-3.69	116.98	124.95
12	O5	201	CYC	C4A-C3A-C2A	-3.69	102.29	106.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	s7	201	CYC	C4A-C3A-C2A	-3.69	102.29	106.48
12	p7	201	CYC	C1B-NB-C4B	-3.69	106.13	110.66
12	V7	201	CYC	C2B-C1B-NB	3.69	112.35	106.97
12	R7	201	CYC	C4D-C3D-C2D	-3.69	103.33	107.62
12	b7	201	CYC	OC-C1C-C2C	-3.69	123.24	126.17
12	J6	202	CYC	CMB-C2B-C1B	3.69	128.64	124.16
12	H2	201	CYC	CHD-C1D-ND	-3.69	116.96	125.29
12	N8	201	CYC	C2B-C1B-NB	3.69	112.34	106.97
12	Z3	202	CYC	CMD-C2D-C1D	3.69	130.98	125.62
12	h7	201	CYC	C2B-C1B-NB	3.68	112.34	106.97
12	D5	201	CYC	C4D-C3D-C2D	-3.68	103.33	107.62
12	A5	201	CYC	CMD-C2D-C1D	3.68	130.97	125.62
12	A1	201	CYC	OC-C1C-C2C	-3.68	123.25	126.17
12	A3	201	CYC	OC-C1C-C2C	-3.68	123.25	126.17
12	VA	201	CYC	CHD-C1D-ND	-3.68	116.97	125.29
12	B3	202	CYC	CHD-C1D-ND	-3.68	116.97	125.29
12	V9	201	CYC	CHD-C1D-ND	-3.68	116.97	125.29
12	H5	201	CYC	C4D-C3D-C2D	-3.68	103.33	107.62
12	F4	202	CYC	CHD-C1D-ND	-3.68	116.97	125.29
12	F8	202	CYC	CHD-C1D-ND	-3.68	116.97	125.29
12	d7	201	CYC	C1B-NB-C4B	-3.68	106.14	110.66
12	D4	201	CYC	CMD-C2D-C1D	3.68	130.97	125.62
12	D8	201	CYC	CMD-C2D-C1D	3.68	130.97	125.62
12	C5	201	CYC	C4A-C3A-C2A	-3.68	102.30	106.48
12	O4	201	CYC	CHB-C4A-NA	-3.68	117.01	124.95
12	LA	202	CYC	CHD-C1D-ND	-3.68	116.98	125.29
12	L9	202	CYC	CHD-C1D-ND	-3.68	116.98	125.29
12	V5	201	CYC	OC-C1C-C2C	-3.68	123.25	126.17
12	D4	202	CYC	CHB-C4A-NA	-3.68	117.01	124.95
12	D8	202	CYC	CHB-C4A-NA	-3.68	117.01	124.95
12	W4	201	CYC	CMB-C2B-C1B	3.68	128.63	124.16
12	W8	201	CYC	CMB-C2B-C1B	3.68	128.63	124.16
12	m7	201	CYC	C4A-C3A-C2A	-3.68	102.30	106.48
12	I6	201	CYC	C2B-C1B-NB	3.68	112.33	106.97
12	L7	201	CYC	C2B-C1B-NB	3.68	112.33	106.97
12	Q5	201	CYC	C4A-C3A-C2A	-3.68	102.30	106.48
12	Z1	202	CYC	CMB-C2B-C1B	3.68	128.63	124.16
12	Y3	201	CYC	C2B-C1B-NB	3.68	112.33	106.97
12	Y1	201	CYC	C2B-C1B-NB	3.68	112.33	106.97
12	O8	201	CYC	CHB-C4A-NA	-3.68	117.01	124.95
12	F2	201	CYC	CHD-C1D-ND	-3.68	116.98	125.29
12	O1	201	CYC	OC-C1C-C2C	-3.68	123.25	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	O3	201	CYC	OC-C1C-C2C	-3.68	123.25	126.17
12	TA	301	CYC	CMB-C2B-C1B	3.68	128.63	124.16
12	B8	202	CYC	CMB-C2B-C1B	3.68	128.63	124.16
12	k5	1202	CYC	C1B-NB-C4B	-3.68	106.15	110.66
12	A7	201	CYC	CMD-C2D-C1D	3.68	130.96	125.62
12	M7	201	CYC	C4A-C3A-C2A	-3.68	102.31	106.48
12	F7	201	CYC	C2B-C1B-NB	3.68	112.33	106.97
12	V8	201	CYC	C2B-C1B-NB	3.68	112.33	106.97
12	R5	201	CYC	C1B-NB-C4B	-3.67	106.15	110.66
12	HA	202	CYC	CHD-C1D-ND	-3.67	116.99	125.29
12	Q5	201	CYC	CMD-C2D-C1D	3.67	130.96	125.62
12	B4	202	CYC	CMB-C2B-C1B	3.67	128.63	124.16
12	Q7	201	CYC	CMD-C2D-C1D	3.67	130.96	125.62
12	N7	201	CYC	C4D-C3D-C2D	-3.67	103.34	107.62
12	D5	201	CYC	OC-C1C-C2C	-3.67	123.25	126.17
12	B1	202	CYC	CHB-C4A-NA	-3.67	117.02	124.95
12	Z	201	CYC	C2B-C1B-NB	3.67	112.32	106.97
12	C3	201	CYC	OC-C1C-C2C	-3.67	123.25	126.17
12	H4	201	CYC	CHB-C4A-NA	-3.67	117.03	124.95
12	F6	201	CYC	CHB-C4A-NA	-3.67	117.03	124.95
12	H8	201	CYC	CHB-C4A-NA	-3.67	117.03	124.95
12	E3	201	CYC	C2B-C1B-NB	3.67	112.32	106.97
12	E1	201	CYC	C2B-C1B-NB	3.67	112.32	106.97
12	G1	201	CYC	C2B-C1B-NB	3.67	112.32	106.97
12	P5	201	CYC	C4D-C3D-C2D	-3.67	103.35	107.62
12	J7	201	CYC	C4D-C3D-C2D	-3.67	103.35	107.62
12	G5	201	CYC	CMD-C2D-C1D	3.67	130.95	125.62
12	Q7	201	CYC	C4A-C3A-C2A	-3.67	102.31	106.48
12	J7	201	CYC	C2B-C1B-NB	3.67	112.31	106.97
12	d5	201	CYC	C4D-C3D-C2D	-3.66	103.36	107.62
12	D3	202	CYC	CMB-C2B-C1B	3.66	128.62	124.16
12	D1	202	CYC	CMB-C2B-C1B	3.66	128.62	124.16
12	P4	201	CYC	C2B-C1B-NB	3.66	112.31	106.97
12	B7	201	CYC	C2B-C1B-NB	3.66	112.31	106.97
12	M5	201	CYC	C4A-C3A-C2A	-3.66	102.32	106.48
12	U7	201	CYC	C4A-C3A-C2A	-3.66	102.32	106.48
12	P5	201	CYC	OC-C1C-C2C	-3.66	123.26	126.17
12	PA	201	CYC	CMB-C2B-C1B	3.66	128.62	124.16
12	P9	201	CYC	CMB-C2B-C1B	3.66	128.62	124.16
12	A	201	CYC	C2B-C1B-NB	3.66	112.31	106.97
12	FA	301	CYC	CHD-C1D-ND	-3.66	117.01	125.29
12	X5	201	CYC	C1B-NB-C4B	-3.66	106.17	110.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	r7	201	CYC	C4D-C3D-C2D	-3.66	103.36	107.62
12	f5	201	CYC	C2B-C1B-NB	3.66	112.31	106.97
12	P1	201	CYC	CMB-C2B-C1B	3.66	128.61	124.16
12	W5	201	CYC	C4A-C3A-C2A	-3.66	102.32	106.48
12	V4	201	CYC	C2B-C1B-NB	3.66	112.31	106.97
12	c7	201	CYC	CMD-C2D-C1D	3.66	130.94	125.62
12	j7	201	CYC	C1B-NB-C4B	-3.66	106.17	110.66
12	R1	201	CYC	CHD-C1D-ND	-3.66	117.02	125.29
12	R3	201	CYC	CHD-C1D-ND	-3.66	117.02	125.29
12	L6	201	CYC	CHD-C1D-ND	-3.66	117.02	125.29
12	b5	201	CYC	C2B-C1B-NB	3.66	112.31	106.97
12	W7	201	CYC	CMD-C2D-C1D	3.66	130.94	125.62
12	Z5	201	CYC	C4D-C3D-C2D	-3.66	103.36	107.62
12	X7	201	CYC	C4D-C3D-C2D	-3.66	103.36	107.62
12	T9	301	CYC	CMB-C2B-C1B	3.66	128.61	124.16
12	F9	301	CYC	CHD-C1D-ND	-3.66	117.02	125.29
12	b7	201	CYC	C1B-NB-C4B	-3.66	106.17	110.66
12	X3	201	CYC	CHB-C4A-NA	-3.66	117.05	124.95
12	X1	201	CYC	CHB-C4A-NA	-3.66	117.05	124.95
12	Z3	201	CYC	CMB-C2B-C1B	3.66	128.61	124.16
12	d7	201	CYC	C4D-C3D-C2D	-3.66	103.36	107.62
12	G3	201	CYC	C2B-C1B-NB	3.66	112.30	106.97
12	N7	201	CYC	C2B-C1B-NB	3.66	112.30	106.97
12	U4	201	CYC	CHB-C4A-NA	-3.66	117.05	124.95
12	U8	201	CYC	CHB-C4A-NA	-3.66	117.05	124.95
12	a7	201	CYC	CMD-C2D-C1D	3.66	130.94	125.62
12	UA	201	CYC	OC-C1C-C2C	-3.66	123.27	126.17
12	G6	201	CYC	OC-C1C-C2C	-3.66	123.27	126.17
12	U9	201	CYC	OC-C1C-C2C	-3.66	123.27	126.17
12	I5	201	CYC	CHD-C4C-NC	3.66	130.20	125.63
12	E7	201	CYC	CMD-C2D-C1D	3.66	130.93	125.62
12	C1	201	CYC	OC-C1C-C2C	-3.66	123.27	126.17
12	U5	201	CYC	C4A-C3A-C2A	-3.66	102.33	106.48
12	N5	201	CYC	C4D-C3D-C2D	-3.66	103.36	107.62
12	H7	201	CYC	C4D-C3D-C2D	-3.66	103.36	107.62
12	H1	201	CYC	CHB-C4A-NA	-3.66	117.06	124.95
12	JA	202	CYC	CHB-C4A-NA	-3.66	117.06	124.95
12	J9	202	CYC	CHB-C4A-NA	-3.66	117.06	124.95
12	P3	201	CYC	CMB-C2B-C1B	3.66	128.60	124.16
12	H7	201	CYC	C2B-C1B-NB	3.66	112.30	106.97
12	H3	202	CYC	CHB-C4A-NA	-3.66	117.06	124.95
12	F6	201	CYC	CHD-C1D-ND	-3.66	117.03	125.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	V4	201	CYC	OC-C1C-C2C	-3.65	123.27	126.17
12	V8	201	CYC	OC-C1C-C2C	-3.65	123.27	126.17
12	k5	1204	CYC	C4D-C3D-C2D	-3.65	103.37	107.62
12	C4	201	CYC	C2B-C1B-NB	3.65	112.30	106.97
12	C8	201	CYC	C2B-C1B-NB	3.65	112.30	106.97
12	o7	201	CYC	CMD-C2D-C1D	3.65	130.93	125.62
12	k5	1204	CYC	C2B-C1B-NB	3.65	112.29	106.97
12	V7	201	CYC	C1B-NB-C4B	-3.65	106.18	110.66
12	D3	202	CYC	CHB-C4A-NA	-3.65	117.07	124.95
12	D1	202	CYC	CHB-C4A-NA	-3.65	117.07	124.95
12	B7	201	CYC	C4D-C3D-C2D	-3.65	103.37	107.62
12	I5	201	CYC	C4A-C3A-C2A	-3.65	102.33	106.48
12	g7	201	CYC	CMD-C2D-C1D	3.65	130.93	125.62
12	W4	201	CYC	CHB-C4A-NA	-3.65	117.07	124.95
12	W8	201	CYC	CHB-C4A-NA	-3.65	117.07	124.95
12	X7	201	CYC	C2B-C1B-NB	3.65	112.29	106.97
12	W9	201	CYC	C2B-C1B-NB	3.65	112.29	106.97
12	f7	201	CYC	C1B-NB-C4B	-3.65	106.18	110.66
12	B5	201	CYC	C4D-C3D-C2D	-3.65	103.37	107.62
12	D2	201	CYC	CMB-C2B-C1B	3.65	128.60	124.16
12	R3	201	CYC	CHB-C4A-NA	-3.65	117.07	124.95
12	WA	201	CYC	C2B-C1B-NB	3.65	112.29	106.97
12	P8	201	CYC	C2B-C1B-NB	3.65	112.29	106.97
12	R5	201	CYC	OC-C1C-C2C	-3.65	123.27	126.17
12	e5	201	CYC	CHD-C4C-NC	3.65	130.19	125.63
12	X7	201	CYC	C1B-NB-C4B	-3.65	106.18	110.66
12	S1	201	CYC	OC-C1C-C2C	-3.65	123.27	126.17
12	S3	201	CYC	OC-C1C-C2C	-3.65	123.27	126.17
12	I4	201	CYC	OC-C1C-C2C	-3.65	123.27	126.17
12	I8	201	CYC	OC-C1C-C2C	-3.65	123.27	126.17
12	P7	201	CYC	C2B-C1B-NB	3.65	112.29	106.97
12	TA	301	CYC	CHD-C1D-ND	-3.65	117.05	125.29
12	T9	301	CYC	CHD-C1D-ND	-3.65	117.05	125.29
12	K7	201	CYC	CMD-C2D-C1D	3.65	130.92	125.62
12	J5	201	CYC	C4D-C3D-C2D	-3.65	103.38	107.62
12	I4	201	CYC	C2B-C1B-NB	3.65	112.28	106.97
12	F5	201	CYC	C2B-C1B-NB	3.65	112.28	106.97
12	I8	201	CYC	C2B-C1B-NB	3.65	112.28	106.97
12	q7	201	CYC	C4A-C3A-C2A	-3.65	102.34	106.48
12	DA	201	CYC	CHB-C4A-NA	-3.65	117.08	124.95
12	D9	201	CYC	CHB-C4A-NA	-3.65	117.08	124.95
12	j7	201	CYC	C4D-C3D-C2D	-3.64	103.38	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	R1	201	CYC	CHB-C4A-NA	-3.64	117.08	124.95
12	k7	201	CYC	CMD-C2D-C1D	3.64	130.92	125.62
12	R7	201	CYC	C1B-NB-C4B	-3.64	106.19	110.66
12	N5	201	CYC	C1B-NB-C4B	-3.64	106.19	110.66
12	T3	301	CYC	CHB-C4A-NA	-3.64	117.09	124.95
12	T1	301	CYC	CHB-C4A-NA	-3.64	117.09	124.95
12	B4	202	CYC	CHB-C4A-NA	-3.64	117.09	124.95
12	B3	202	CYC	CHB-C4A-NA	-3.64	117.09	124.95
12	j7	201	CYC	C2B-C1B-NB	3.64	112.28	106.97
12	D6	201	CYC	CMB-C2B-C1B	3.64	128.59	124.16
12	j5	1202	CYC	C2B-C1B-NB	3.64	112.28	106.97
12	e5	201	CYC	CMD-C2D-C1D	3.64	130.91	125.62
12	YA	201	CYC	C1B-NB-C4B	-3.64	106.19	110.66
12	SA	201	CYC	C1B-NB-C4B	-3.64	106.19	110.66
12	S9	201	CYC	C1B-NB-C4B	-3.64	106.19	110.66
12	TA	301	CYC	CHB-C4A-NA	-3.64	117.09	124.95
12	T9	301	CYC	CHB-C4A-NA	-3.64	117.09	124.95
12	N5	201	CYC	C2B-C1B-NB	3.64	112.27	106.97
12	a9	901	CYC	CMB-C2B-C1B	3.64	128.58	124.16
12	k7	201	CYC	C4A-C3A-C2A	-3.64	102.35	106.48
12	v7	201	CYC	OC-C1C-C2C	-3.64	123.28	126.17
12	k5	1202	CYC	C4D-C3D-C2D	-3.64	103.39	107.62
12	i7	201	CYC	CMD-C2D-C1D	3.64	130.91	125.62
12	P7	201	CYC	C1B-NB-C4B	-3.64	106.20	110.66
12	I2	201	CYC	C2B-C1B-NB	3.64	112.27	106.97
12	D7	201	CYC	C4D-C3D-C2D	-3.64	103.39	107.62
12	b7	201	CYC	C4D-C3D-C2D	-3.64	103.39	107.62
12	C2	201	CYC	OC-C1C-C2C	-3.63	123.28	126.17
12	W1	201	CYC	C2B-C1B-NB	3.63	112.27	106.97
12	aA	902	CYC	CMB-C2B-C1B	3.63	128.58	124.16
12	g7	201	CYC	CHD-C4C-NC	3.63	130.17	125.63
12	I7	201	CYC	CMD-C2D-C1D	3.63	130.90	125.62
12	X5	201	CYC	OC-C1C-C2C	-3.63	123.28	126.17
12	U4	202	CYC	CMD-C2D-C1D	3.63	130.90	125.62
12	T5	201	CYC	C4D-C3D-C2D	-3.63	103.39	107.62
12	XA	201	CYC	CHB-C4A-NA	-3.63	117.11	124.95
12	G7	201	CYC	CMD-C2D-C1D	3.63	130.90	125.62
12	f5	201	CYC	C4D-C3D-C2D	-3.63	103.40	107.62
12	P5	201	CYC	C2B-C1B-NB	3.63	112.26	106.97
12	F5	201	CYC	C4D-C3D-C2D	-3.63	103.40	107.62
12	W5	201	CYC	CMD-C2D-C1D	3.63	130.89	125.62
12	J5	201	CYC	OC-C1C-C2C	-3.63	123.29	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	J3	202	CYC	CHB-C4A-NA	-3.63	117.12	124.95
12	aA	901	CYC	CHB-C4A-NA	-3.63	117.12	124.95
12	L7	201	CYC	C1B-NB-C4B	-3.63	106.21	110.66
12	f7	201	CYC	C4D-C3D-C2D	-3.63	103.40	107.62
12	V3	201	CYC	CHB-C4A-NA	-3.63	117.12	124.95
12	V1	201	CYC	CHB-C4A-NA	-3.63	117.12	124.95
12	v7	201	CYC	C1B-NB-C4B	-3.63	106.21	110.66
12	H2	201	CYC	CHB-C4A-NA	-3.63	117.12	124.95
12	p7	201	CYC	OC-C1C-C2C	-3.62	123.29	126.17
12	B8	202	CYC	CHB-C4A-NA	-3.62	117.12	124.95
12	F6	201	CYC	CMB-C2B-C1B	3.62	128.57	124.16
12	S4	202	CYC	CMB-C2B-C1B	3.62	128.56	124.16
12	J4	201	CYC	CMB-C2B-C1B	3.62	128.56	124.16
12	J8	201	CYC	CMB-C2B-C1B	3.62	128.56	124.16
12	D3	201	CYC	CMD-C2D-C1D	3.62	130.88	125.62
12	W3	201	CYC	C2B-C1B-NB	3.62	112.25	106.97
12	J6	202	CYC	CHB-C4A-NA	-3.62	117.13	124.95
12	Y5	201	CYC	CMD-C2D-C1D	3.62	130.88	125.62
12	V5	201	CYC	C1B-NB-C4B	-3.62	106.22	110.66
12	BA	201	CYC	CHB-C4A-NA	-3.62	117.13	124.95
12	B9	201	CYC	CHB-C4A-NA	-3.62	117.13	124.95
12	F7	201	CYC	C1B-NB-C4B	-3.62	106.22	110.66
12	T7	201	CYC	C4D-C3D-C2D	-3.62	103.41	107.62
12	PA	201	CYC	CHB-C4A-NA	-3.62	117.14	124.95
12	P9	201	CYC	CHB-C4A-NA	-3.62	117.14	124.95
12	h7	201	CYC	C4D-C3D-C2D	-3.62	103.41	107.62
12	RA	202	CYC	CMD-C2D-C1D	3.62	130.88	125.62
12	H4	202	CYC	CMD-C2D-C1D	3.62	130.88	125.62
12	H8	202	CYC	CMD-C2D-C1D	3.62	130.88	125.62
12	R9	202	CYC	CMD-C2D-C1D	3.62	130.88	125.62
12	X9	201	CYC	CHB-C4A-NA	-3.62	117.14	124.95
12	FA	301	CYC	CHB-C4A-NA	-3.62	117.14	124.95
12	F9	301	CYC	CHB-C4A-NA	-3.62	117.14	124.95
12	U7	201	CYC	CMD-C2D-C1D	3.62	130.88	125.62
12	E8	201	CYC	OC-C1C-C2C	-3.62	123.30	126.17
12	VA	201	CYC	CHB-C4A-NA	-3.62	117.14	124.95
12	P5	201	CYC	C1B-NB-C4B	-3.62	106.22	110.66
12	d7	201	CYC	C2B-C1B-NB	3.62	112.24	106.97
12	J2	202	CYC	CHB-C4A-NA	-3.62	117.14	124.95
12	DA	202	CYC	CMD-C2D-C1D	3.62	130.88	125.62
12	D9	202	CYC	CMD-C2D-C1D	3.62	130.88	125.62
12	A4	201	CYC	C2B-C1B-NB	3.62	112.24	106.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A8	201	CYC	C2B-C1B-NB	3.62	112.24	106.97
12	RA	201	CYC	CMB-C2B-C1B	3.62	128.56	124.16
12	R9	201	CYC	CMB-C2B-C1B	3.62	128.56	124.16
12	I5	201	CYC	C1B-C2B-C3B	-3.62	104.14	107.86
12	L3	202	CYC	CMB-C2B-C1B	3.62	128.56	124.16
12	ZA	202	CYC	CAB-C3B-C4B	3.62	126.96	121.37
12	Z9	202	CYC	CAB-C3B-C4B	3.62	126.96	121.37
12	F3	201	CYC	CHB-C4A-NA	-3.62	117.14	124.95
12	F1	201	CYC	CHB-C4A-NA	-3.62	117.14	124.95
12	B5	201	CYC	C2B-C1B-NB	3.61	112.24	106.97
12	XA	201	CYC	CAB-C3B-C4B	3.61	126.96	121.37
12	X9	201	CYC	CAB-C3B-C4B	3.61	126.96	121.37
12	IA	201	CYC	CHD-C1D-ND	-3.61	117.12	125.29
12	I9	201	CYC	CHD-C1D-ND	-3.61	117.12	125.29
12	k5	1204	CYC	C1B-NB-C4B	-3.61	106.23	110.66
12	h7	201	CYC	C1B-NB-C4B	-3.61	106.23	110.66
12	S5	201	CYC	CMD-C2D-C1D	3.61	130.87	125.62
12	Y3	201	CYC	OC-C1C-C2C	-3.61	123.30	126.17
12	Y1	201	CYC	OC-C1C-C2C	-3.61	123.30	126.17
12	F3	202	CYC	CHB-C1B-C2B	-3.61	119.76	126.97
12	F1	202	CYC	CHB-C1B-C2B	-3.61	119.76	126.97
12	S4	202	CYC	CHB-C4A-NA	-3.61	117.15	124.95
12	M5	201	CYC	CMD-C2D-C1D	3.61	130.87	125.62
12	U8	202	CYC	CMD-C2D-C1D	3.61	130.87	125.62
12	D6	201	CYC	CHB-C4A-NA	-3.61	117.15	124.95
12	L5	201	CYC	C2B-C1B-NB	3.61	112.23	106.97
12	T5	201	CYC	C2B-C1B-NB	3.61	112.23	106.97
12	X7	201	CYC	OC-C1C-C2C	-3.61	123.30	126.17
12	E6	201	CYC	C1B-NB-C4B	-3.61	106.23	110.66
12	Y7	201	CYC	C4A-C3A-C2A	-3.61	102.38	106.48
12	I6	201	CYC	OC-C1C-C2C	-3.61	123.30	126.17
12	F4	202	CYC	CHB-C4A-NA	-3.61	117.16	124.95
12	F8	202	CYC	CHB-C4A-NA	-3.61	117.16	124.95
12	E2	201	CYC	C1B-NB-C4B	-3.61	106.23	110.66
12	T5	201	CYC	C1B-NB-C4B	-3.61	106.23	110.66
12	B7	201	CYC	C1B-NB-C4B	-3.61	106.23	110.66
12	Y9	201	CYC	C1B-NB-C4B	-3.61	106.23	110.66
12	V5	201	CYC	C2B-C1B-NB	3.61	112.23	106.97
12	WA	201	CYC	OC-C1C-C2C	-3.61	123.31	126.17
12	W9	201	CYC	OC-C1C-C2C	-3.61	123.31	126.17
12	S4	202	CYC	CAB-C3B-C4B	3.61	126.95	121.37
12	N2	101	CYC	CHB-C4A-NA	-3.61	117.17	124.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	N6	101	CYC	CHB-C4A-NA	-3.61	117.17	124.95
12	u7	201	CYC	C4A-C3A-C2A	-3.61	102.38	106.48
12	F5	201	CYC	C1B-NB-C4B	-3.61	106.24	110.66
12	b5	201	CYC	C1B-NB-C4B	-3.60	106.24	110.66
12	D1	201	CYC	CMD-C2D-C1D	3.60	130.86	125.62
12	I2	201	CYC	OC-C1C-C2C	-3.60	123.31	126.17
12	O7	201	CYC	CMD-C2D-C1D	3.60	130.86	125.62
12	L6	202	CYC	CMD-C2D-C1D	3.60	130.86	125.62
12	S7	201	CYC	CMD-C2D-C1D	3.60	130.86	125.62
12	b5	201	CYC	C4D-C3D-C2D	-3.60	103.43	107.62
12	BA	202	CYC	CMD-C2D-C1D	3.60	130.85	125.62
12	B9	202	CYC	CMD-C2D-C1D	3.60	130.85	125.62
12	V9	201	CYC	CHB-C4A-NA	-3.60	117.17	124.95
12	DA	201	CYC	CMB-C2B-C1B	3.60	128.54	124.16
12	TA	302	CYC	CMD-C2D-C1D	3.60	130.85	125.62
12	H2	202	CYC	CMD-C2D-C1D	3.60	130.85	125.62
12	H6	202	CYC	CMD-C2D-C1D	3.60	130.85	125.62
12	L4	201	CYC	CMD-C2D-C1D	3.60	130.85	125.62
12	U5	201	CYC	CMD-C2D-C1D	3.60	130.85	125.62
12	L8	201	CYC	CMD-C2D-C1D	3.60	130.85	125.62
12	M4	301	CYC	CHB-C4A-NA	-3.60	117.18	124.95
12	V3	202	CYC	CHB-C1B-C2B	-3.60	119.79	126.97
12	M8	301	CYC	CHB-C4A-NA	-3.60	117.18	124.95
12	H5	201	CYC	C2B-C1B-NB	3.60	112.21	106.97
12	L3	201	CYC	CMD-C2D-C1D	3.60	130.85	125.62
12	L1	201	CYC	CMD-C2D-C1D	3.60	130.85	125.62
12	H6	201	CYC	CHB-C4A-NA	-3.60	117.19	124.95
12	M8	302	CYC	CHB-C4A-NA	-3.60	117.19	124.95
12	Y8	201	CYC	CHB-C1B-C2B	-3.60	119.80	126.97
12	I3	201	CYC	OC-C1C-C2C	-3.60	123.31	126.17
12	I1	201	CYC	OC-C1C-C2C	-3.60	123.31	126.17
12	AA	201	CYC	C2B-C1B-NB	3.60	112.21	106.97
12	T7	201	CYC	C2B-C1B-NB	3.60	112.21	106.97
12	A9	201	CYC	C2B-C1B-NB	3.60	112.21	106.97
12	Y4	201	CYC	CHB-C1B-C2B	-3.60	119.80	126.97
12	Z3	201	CYC	CHB-C4A-NA	-3.60	117.19	124.95
12	Z1	202	CYC	CHB-C4A-NA	-3.60	117.19	124.95
12	R1	202	CYC	CMD-C2D-C1D	3.59	130.84	125.62
12	H9	202	CYC	CHB-C4A-NA	-3.59	117.19	124.95
12	J2	202	CYC	CAB-C3B-C4B	3.59	126.93	121.37
12	P4	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17
12	P8	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	r7	201	CYC	C2B-C1B-NB	3.59	112.20	106.97
12	T3	302	CYC	CMD-C2D-C1D	3.59	130.84	125.62
12	T1	302	CYC	CMD-C2D-C1D	3.59	130.84	125.62
12	C5	201	CYC	C1B-C2B-C3B	-3.59	104.17	107.86
12	q7	201	CYC	CMD-C2D-C1D	3.59	130.84	125.62
12	j5	1202	CYC	C1B-NB-C4B	-3.59	106.25	110.66
12	N7	201	CYC	C1B-NB-C4B	-3.59	106.25	110.66
12	P1	201	CYC	CHB-C4A-NA	-3.59	117.20	124.95
12	P3	201	CYC	CHB-C4A-NA	-3.59	117.20	124.95
12	V1	202	CYC	CHB-C1B-C2B	-3.59	119.81	126.97
12	L5	201	CYC	C4D-C3D-C2D	-3.59	103.44	107.62
12	JA	202	CYC	CMB-C2B-C1B	3.59	128.53	124.16
12	J9	202	CYC	CMB-C2B-C1B	3.59	128.53	124.16
12	M7	201	CYC	C1B-C2B-C3B	-3.59	104.17	107.86
12	C6	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17
12	B3	201	CYC	CMD-C2D-C1D	3.59	130.84	125.62
12	R3	202	CYC	CMD-C2D-C1D	3.59	130.84	125.62
12	B1	201	CYC	CMD-C2D-C1D	3.59	130.84	125.62
12	T9	302	CYC	CMD-C2D-C1D	3.59	130.84	125.62
12	f5	201	CYC	C1B-NB-C4B	-3.59	106.26	110.66
12	K2	201	CYC	OC-C1C-C2C	-3.59	123.32	126.17
12	k5	1203	CYC	C2B-C1B-NB	3.59	112.20	106.97
12	H3	201	CYC	CHB-C1B-C2B	-3.59	119.82	126.97
12	H1	202	CYC	CHB-C1B-C2B	-3.59	119.82	126.97
12	D9	201	CYC	CMB-C2B-C1B	3.59	128.52	124.16
12	ZA	202	CYC	CHB-C4A-NA	-3.58	117.21	124.95
12	Z9	202	CYC	CHB-C4A-NA	-3.58	117.21	124.95
12	E4	201	CYC	CHD-C1D-ND	-3.58	117.19	125.29
12	E8	201	CYC	CHD-C1D-ND	-3.58	117.19	125.29
12	GA	201	CYC	OC-C1C-C2C	-3.58	123.32	126.17
12	G9	201	CYC	OC-C1C-C2C	-3.58	123.32	126.17
12	O5	201	CYC	CMD-C2D-C1D	3.58	130.83	125.62
12	M8	302	CYC	CMB-C2B-C1B	3.58	128.52	124.16
12	o7	201	CYC	C4A-C3A-C2A	-3.58	102.41	106.48
12	QA	201	CYC	OC-C1C-C2C	-3.58	123.32	126.17
12	c5	201	CYC	CMD-C2D-C1D	3.58	130.83	125.62
12	J6	201	CYC	CMD-C2D-C1D	3.58	130.83	125.62
12	j5	1202	CYC	C4D-C3D-C2D	-3.58	103.45	107.62
12	Y4	201	CYC	CMD-C2D-C1D	3.58	130.83	125.62
12	D6	202	CYC	CMD-C2D-C1D	3.58	130.83	125.62
12	Y8	201	CYC	CMD-C2D-C1D	3.58	130.83	125.62
12	D2	202	CYC	CMD-C2D-C1D	3.58	130.83	125.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	E4	201	CYC	OC-C1C-C2C	-3.58	123.33	126.17
12	LA	202	CYC	CHB-C4A-NA	-3.58	117.22	124.95
12	L9	202	CYC	CHB-C4A-NA	-3.58	117.22	124.95
12	Q4	201	CYC	CMD-C2D-C1D	3.58	130.82	125.62
12	F2	201	CYC	CAB-C3B-C4B	3.58	126.91	121.37
12	B4	201	CYC	CMD-C2D-C1D	3.58	130.82	125.62
12	B8	201	CYC	CMD-C2D-C1D	3.58	130.82	125.62
12	i7	201	CYC	C1B-C2B-C3B	-3.58	104.18	107.86
12	L4	202	CYC	CMB-C2B-C1B	3.58	128.51	124.16
12	VA	201	CYC	CAB-C3B-C4B	3.58	126.91	121.37
12	L2	202	CYC	CMD-C2D-C1D	3.58	130.82	125.62
12	D2	201	CYC	CHB-C4A-NA	-3.58	117.22	124.95
12	C2	201	CYC	CHD-C1D-ND	-3.58	117.21	125.29
12	L5	201	CYC	C1B-NB-C4B	-3.58	106.27	110.66
12	C3	201	CYC	CHD-C1D-ND	-3.58	117.21	125.29
12	U4	202	CYC	CHB-C1B-C2B	-3.58	119.84	126.97
12	U8	202	CYC	CHB-C1B-C2B	-3.58	119.84	126.97
12	s7	201	CYC	CMD-C2D-C1D	3.58	130.82	125.62
12	G3	201	CYC	OC-C1C-C2C	-3.58	123.33	126.17
12	G1	201	CYC	OC-C1C-C2C	-3.58	123.33	126.17
12	U5	201	CYC	C1B-C2B-C3B	-3.58	104.19	107.86
12	F6	201	CYC	CAB-C3B-C4B	3.58	126.90	121.37
12	J4	202	CYC	CHB-C1B-C2B	-3.58	119.84	126.97
12	J8	202	CYC	CHB-C1B-C2B	-3.58	119.84	126.97
12	HA	202	CYC	CHB-C4A-NA	-3.57	117.23	124.95
12	L6	201	CYC	CHB-C4A-NA	-3.57	117.23	124.95
12	F4	201	CYC	CMD-C2D-C1D	3.57	130.81	125.62
12	F8	201	CYC	CMD-C2D-C1D	3.57	130.81	125.62
12	a9	901	CYC	CHB-C4A-NA	-3.57	117.24	124.95
12	J6	202	CYC	CAB-C3B-C4B	3.57	126.89	121.37
12	W4	202	CYC	CMD-C2D-C1D	3.57	130.81	125.62
12	W8	202	CYC	CMD-C2D-C1D	3.57	130.81	125.62
12	H7	201	CYC	C1B-NB-C4B	-3.57	106.28	110.66
12	RA	201	CYC	CHB-C4A-NA	-3.57	117.24	124.95
12	R9	201	CYC	CHB-C4A-NA	-3.57	117.24	124.95
12	Q9	201	CYC	CHD-C1D-ND	-3.57	117.22	125.29
12	e7	201	CYC	C4A-C3A-C2A	-3.57	102.42	106.48
12	m7	201	CYC	CMD-C2D-C1D	3.57	130.81	125.62
12	F1	202	CYC	CMD-C2D-C1D	3.57	130.81	125.62
12	QA	201	CYC	CHD-C1D-ND	-3.57	117.23	125.29
12	r7	201	CYC	C1B-NB-C4B	-3.57	106.28	110.66
12	M8	302	CYC	CAB-C3B-C4B	3.57	126.89	121.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	H3	201	CYC	CMD-C2D-C1D	3.57	130.80	125.62
12	H1	202	CYC	CMD-C2D-C1D	3.57	130.80	125.62
12	L4	202	CYC	CHB-C4A-NA	-3.57	117.25	124.95
12	Z5	201	CYC	C2B-C1B-NB	3.57	112.17	106.97
12	CA	201	CYC	OC-C1C-C2C	-3.56	123.34	126.17
12	k5	1203	CYC	C1B-NB-C4B	-3.56	106.29	110.66
12	M4	301	CYC	CMB-C2B-C1B	3.56	128.49	124.16
12	LA	201	CYC	CMD-C2D-C1D	3.56	130.80	125.62
12	T7	201	CYC	C1B-NB-C4B	-3.56	106.29	110.66
12	PA	202	CYC	CMD-C2D-C1D	3.56	130.80	125.62
12	P9	202	CYC	CMD-C2D-C1D	3.56	130.80	125.62
12	R4	201	CYC	C1B-NB-C4B	-3.56	106.29	110.66
12	R8	201	CYC	C1B-NB-C4B	-3.56	106.29	110.66
12	JA	201	CYC	CMD-C2D-C1D	3.56	130.80	125.62
12	J9	201	CYC	CMD-C2D-C1D	3.56	130.80	125.62
12	L3	202	CYC	CHB-C4A-NA	-3.56	117.26	124.95
12	aA	902	CYC	CHB-C4A-NA	-3.56	117.26	124.95
12	RA	202	CYC	CHB-C1B-C2B	-3.56	119.87	126.97
12	H4	202	CYC	CHB-C1B-C2B	-3.56	119.87	126.97
12	H8	202	CYC	CHB-C1B-C2B	-3.56	119.87	126.97
12	R9	202	CYC	CHB-C1B-C2B	-3.56	119.87	126.97
12	C1	201	CYC	CHD-C1D-ND	-3.56	117.24	125.29
12	V9	201	CYC	CAB-C3B-C4B	3.56	126.88	121.37
12	X5	201	CYC	C4D-C3D-C2D	-3.56	103.48	107.62
12	L2	201	CYC	CHB-C4A-NA	-3.56	117.26	124.95
12	KA	201	CYC	C1B-NB-C4B	-3.56	106.29	110.66
12	H5	201	CYC	C1B-NB-C4B	-3.56	106.29	110.66
12	K9	201	CYC	C1B-NB-C4B	-3.56	106.29	110.66
12	U4	201	CYC	CAB-C3B-C4B	3.56	126.88	121.37
12	U8	201	CYC	CAB-C3B-C4B	3.56	126.88	121.37
12	Q7	201	CYC	C1B-C2B-C3B	-3.56	104.20	107.86
12	JA	201	CYC	CHB-C1B-C2B	-3.56	119.87	126.97
12	J9	201	CYC	CHB-C1B-C2B	-3.56	119.87	126.97
12	Z3	202	CYC	CHB-C1B-C2B	-3.56	119.87	126.97
12	Z1	201	CYC	CHB-C1B-C2B	-3.56	119.87	126.97
12	d5	201	CYC	C1B-NB-C4B	-3.56	106.30	110.66
12	d5	201	CYC	C2B-C1B-NB	3.56	112.15	106.97
12	B6	201	CYC	CMD-C2D-C1D	3.56	130.79	125.62
12	Q8	201	CYC	CMD-C2D-C1D	3.56	130.79	125.62
12	A4	201	CYC	CHD-C1D-ND	-3.55	117.26	125.29
12	A8	201	CYC	CHD-C1D-ND	-3.55	117.26	125.29
12	a5	201	CYC	CMD-C2D-C1D	3.55	130.79	125.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	J2	201	CYC	CHB-C1B-C2B	-3.55	119.88	126.97
12	e7	201	CYC	CMD-C2D-C1D	3.55	130.78	125.62
12	J6	201	CYC	CHB-C1B-C2B	-3.55	119.88	126.97
12	L6	201	CYC	CMB-C2B-C1B	3.55	128.48	124.16
12	KA	201	CYC	CHD-C1D-ND	-3.55	117.27	125.29
12	Y9	201	CYC	OC-C1C-C2C	-3.55	123.35	126.17
12	B2	201	CYC	CMD-C2D-C1D	3.55	130.78	125.62
12	K6	201	CYC	OC-C1C-C2C	-3.55	123.35	126.17
12	E6	201	CYC	CHD-C1D-ND	-3.55	117.27	125.29
12	Z4	301	CYC	CHB-C4A-NA	-3.55	117.29	124.95
12	Z8	301	CYC	CHB-C4A-NA	-3.55	117.29	124.95
12	C7	201	CYC	CMD-C2D-C1D	3.55	130.78	125.62
12	HA	201	CYC	CMD-C2D-C1D	3.55	130.77	125.62
12	S1	201	CYC	C1B-NB-C4B	-3.55	106.31	110.66
12	S3	201	CYC	C1B-NB-C4B	-3.55	106.31	110.66
12	G6	201	CYC	C1B-NB-C4B	-3.55	106.31	110.66
12	G2	201	CYC	CHD-C1D-ND	-3.54	117.28	125.29
12	XA	202	CYC	CMD-C2D-C1D	3.54	130.77	125.62
12	X9	202	CYC	CMD-C2D-C1D	3.54	130.77	125.62
12	PA	201	CYC	CAB-C3B-C4B	3.54	126.85	121.37
12	P9	201	CYC	CAB-C3B-C4B	3.54	126.85	121.37
12	J4	201	CYC	CHB-C4A-NA	-3.54	117.30	124.95
12	J8	201	CYC	CHB-C4A-NA	-3.54	117.30	124.95
12	YA	201	CYC	OC-C1C-C2C	-3.54	123.36	126.17
12	L9	201	CYC	CMD-C2D-C1D	3.54	130.77	125.62
12	L2	201	CYC	CMB-C2B-C1B	3.54	128.47	124.16
12	W8	201	CYC	CAB-C3B-C4B	3.54	126.85	121.37
12	Y3	201	CYC	CHD-C1D-ND	-3.54	117.28	125.29
12	Y1	201	CYC	CHD-C1D-ND	-3.54	117.28	125.29
12	B2	201	CYC	CHB-C1B-C2B	-3.54	119.91	126.97
12	Y7	201	CYC	CMD-C2D-C1D	3.54	130.77	125.62
12	G2	201	CYC	C1B-NB-C4B	-3.54	106.31	110.66
12	c7	201	CYC	C1B-C2B-C3B	-3.54	104.22	107.86
12	M8	301	CYC	CMB-C2B-C1B	3.54	128.47	124.16
12	HA	201	CYC	CHB-C1B-C2B	-3.54	119.91	126.97
12	H9	201	CYC	CHB-C1B-C2B	-3.54	119.91	126.97
12	O9	201	CYC	CHD-C1D-ND	-3.54	117.29	125.29
12	J2	201	CYC	CMD-C2D-C1D	3.54	130.76	125.62
12	M7	201	CYC	CMD-C2D-C1D	3.54	130.76	125.62
12	Q1	201	CYC	CHD-C1D-ND	-3.54	117.30	125.29
12	C9	201	CYC	CHD-C1D-ND	-3.54	117.30	125.29
12	K9	201	CYC	CHD-C1D-ND	-3.54	117.30	125.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B4	201	CYC	CHB-C1B-C2B	-3.54	119.91	126.97
12	B8	201	CYC	CHB-C1B-C2B	-3.54	119.91	126.97
12	I6	201	CYC	CHD-C1D-ND	-3.54	117.30	125.29
12	H2	202	CYC	CHB-C1B-C2B	-3.54	119.92	126.97
12	EA	201	CYC	C1B-NB-C4B	-3.54	106.32	110.66
12	T4	201	CYC	C1B-NB-C4B	-3.54	106.32	110.66
12	Z5	201	CYC	C1B-NB-C4B	-3.54	106.32	110.66
12	T8	201	CYC	C1B-NB-C4B	-3.54	106.32	110.66
12	K8	201	CYC	C1B-NB-C4B	-3.54	106.32	110.66
12	C6	201	CYC	CHD-C1D-ND	-3.54	117.30	125.29
12	F3	202	CYC	CMD-C2D-C1D	3.53	130.76	125.62
12	S4	201	CYC	CMD-C2D-C1D	3.53	130.76	125.62
12	S8	201	CYC	CMD-C2D-C1D	3.53	130.76	125.62
12	K3	201	CYC	C1B-NB-C4B	-3.53	106.32	110.66
12	K1	201	CYC	C1B-NB-C4B	-3.53	106.32	110.66
12	H6	202	CYC	CHB-C1B-C2B	-3.53	119.92	126.97
12	V3	201	CYC	CAB-C3B-C4B	3.53	126.83	121.37
12	J4	201	CYC	CAB-C3B-C4B	3.53	126.83	121.37
12	J8	201	CYC	CAB-C3B-C4B	3.53	126.83	121.37
12	V1	201	CYC	CAB-C3B-C4B	3.53	126.83	121.37
12	R4	201	CYC	CHD-C1D-ND	-3.53	117.31	125.29
12	R8	201	CYC	CHD-C1D-ND	-3.53	117.31	125.29
12	E2	201	CYC	CHD-C1D-ND	-3.53	117.31	125.29
12	J3	201	CYC	CMD-C2D-C1D	3.53	130.75	125.62
12	H9	201	CYC	CMD-C2D-C1D	3.53	130.75	125.62
12	J1	201	CYC	CMD-C2D-C1D	3.53	130.75	125.62
12	W3	201	CYC	CHD-C1D-ND	-3.53	117.31	125.29
12	W1	201	CYC	CHD-C1D-ND	-3.53	117.31	125.29
12	O5	201	CYC	C1B-C2B-C3B	-3.53	104.23	107.86
12	SA	201	CYC	CHD-C1D-ND	-3.53	117.32	125.29
12	S9	201	CYC	CHD-C1D-ND	-3.53	117.32	125.29
12	Q3	201	CYC	CHD-C1D-ND	-3.53	117.32	125.29
12	V3	202	CYC	CMD-C2D-C1D	3.53	130.75	125.62
12	O4	202	CYC	CMD-C2D-C1D	3.53	130.75	125.62
12	V1	202	CYC	CMD-C2D-C1D	3.53	130.75	125.62
12	Q1	201	CYC	OC-C1C-C2C	-3.53	123.37	126.17
12	Q3	201	CYC	OC-C1C-C2C	-3.53	123.37	126.17
12	E8	201	CYC	C1B-NB-C4B	-3.53	106.33	110.66
12	I1	201	CYC	C1B-NB-C4B	-3.52	106.33	110.66
12	B6	201	CYC	CHB-C1B-C2B	-3.52	119.94	126.97
12	OA	201	CYC	CHD-C1D-ND	-3.52	117.33	125.29
12	S1	201	CYC	CHD-C1D-ND	-3.52	117.33	125.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	V4	201	CYC	CHD-C1D-ND	-3.52	117.33	125.29
12	V8	201	CYC	CHD-C1D-ND	-3.52	117.33	125.29
12	K3	201	CYC	CHD-C1D-ND	-3.52	117.33	125.29
12	K1	201	CYC	CHD-C1D-ND	-3.52	117.33	125.29
12	X3	202	CYC	CMD-C2D-C1D	3.52	130.74	125.62
12	X1	202	CYC	CMD-C2D-C1D	3.52	130.74	125.62
12	F2	202	CYC	CMD-C2D-C1D	3.52	130.74	125.62
12	XA	202	CYC	CHB-C1B-C2B	-3.52	119.94	126.97
12	X9	202	CYC	CHB-C1B-C2B	-3.52	119.94	126.97
12	CA	201	CYC	CHD-C1D-ND	-3.52	117.33	125.29
12	YA	201	CYC	CHD-C1D-ND	-3.52	117.33	125.29
12	Y9	201	CYC	CHD-C1D-ND	-3.52	117.33	125.29
12	R5	201	CYC	C4D-C3D-C2D	-3.52	103.52	107.62
12	p7	201	CYC	C4D-C3D-C2D	-3.52	103.52	107.62
12	C9	201	CYC	OC-C1C-C2C	-3.52	123.37	126.17
12	B5	201	CYC	C1B-NB-C4B	-3.52	106.34	110.66
12	e7	201	CYC	C1B-C2B-C3B	-3.52	104.25	107.86
12	LA	202	CYC	CAB-C3B-C4B	3.52	126.81	121.37
12	L9	202	CYC	CAB-C3B-C4B	3.52	126.81	121.37
12	W8	202	CYC	CHB-C1B-C2B	-3.52	119.95	126.97
12	I2	201	CYC	CHD-C1D-ND	-3.52	117.34	125.29
12	K6	201	CYC	CHD-C1D-ND	-3.52	117.34	125.29
12	T4	201	CYC	CHD-C1D-ND	-3.52	117.34	125.29
12	T8	201	CYC	CHD-C1D-ND	-3.52	117.34	125.29
12	aA	901	CYC	CAB-C3B-C4B	3.52	126.81	121.37
12	KA	201	CYC	OC-C1C-C2C	-3.52	123.38	126.17
12	K9	201	CYC	OC-C1C-C2C	-3.52	123.38	126.17
12	O7	201	CYC	C1B-C2B-C3B	-3.52	104.25	107.86
12	a7	201	CYC	C1B-C2B-C3B	-3.52	104.25	107.86
12	D2	201	CYC	CAB-C3B-C4B	3.52	126.81	121.37
12	A7	201	CYC	C1B-C2B-C3B	-3.52	104.25	107.86
12	F6	202	CYC	CMD-C2D-C1D	3.51	130.73	125.62
12	X4	201	CYC	CHD-C1D-ND	-3.51	117.35	125.29
12	X8	201	CYC	CHD-C1D-ND	-3.51	117.35	125.29
12	W4	202	CYC	CHB-C1B-C2B	-3.51	119.96	126.97
12	Q9	201	CYC	OC-C1C-C2C	-3.51	123.38	126.17
12	W4	201	CYC	CAB-C3B-C4B	3.51	126.80	121.37
12	I4	201	CYC	CHD-C1D-ND	-3.51	117.35	125.29
12	I8	201	CYC	CHD-C1D-ND	-3.51	117.35	125.29
12	Y7	201	CYC	C1B-C2B-C3B	-3.51	104.25	107.86
12	VA	202	CYC	CHB-C1B-C2B	-3.51	119.96	126.97
12	J3	202	CYC	CAB-C3B-C4B	3.51	126.80	121.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	S3	201	CYC	CHD-C1D-ND	-3.51	117.35	125.29
12	G5	201	CYC	C1B-C2B-C3B	-3.51	104.25	107.86
12	X3	202	CYC	CHB-C1B-C2B	-3.51	119.96	126.97
12	X1	202	CYC	CHB-C1B-C2B	-3.51	119.96	126.97
12	O1	201	CYC	CHD-C1D-ND	-3.51	117.36	125.29
12	D3	201	CYC	CHB-C1B-C2B	-3.51	119.97	126.97
12	T3	302	CYC	CHB-C1B-C2B	-3.51	119.97	126.97
12	D1	201	CYC	CHB-C1B-C2B	-3.51	119.97	126.97
12	T1	302	CYC	CHB-C1B-C2B	-3.51	119.97	126.97
12	A5	201	CYC	C1B-C2B-C3B	-3.51	104.25	107.86
12	T9	302	CYC	CHB-C1B-C2B	-3.51	119.97	126.97
12	J1	201	CYC	CHB-C1B-C2B	-3.51	119.97	126.97
12	K2	201	CYC	CHD-C1D-ND	-3.51	117.36	125.29
12	E3	201	CYC	CHD-C1D-ND	-3.51	117.36	125.29
12	PA	202	CYC	CHB-C1B-C2B	-3.51	119.97	126.97
12	P9	202	CYC	CHB-C1B-C2B	-3.51	119.97	126.97
12	E3	201	CYC	C1B-NB-C4B	-3.51	106.35	110.66
12	E1	201	CYC	C1B-NB-C4B	-3.51	106.35	110.66
12	C6	201	CYC	CMA-C3A-C4A	3.51	130.55	125.10
12	I3	201	CYC	C1B-NB-C4B	-3.51	106.36	110.66
12	R5	201	CYC	C1A-C2A-C3A	-3.51	102.93	106.73
12	A1	201	CYC	CHD-C1D-ND	-3.51	117.36	125.29
12	A3	201	CYC	CHD-C1D-ND	-3.51	117.36	125.29
12	LA	201	CYC	CHB-C1B-C2B	-3.51	119.97	126.97
12	P1	202	CYC	CHB-C1B-C2B	-3.51	119.97	126.97
12	P3	202	CYC	CHB-C1B-C2B	-3.51	119.97	126.97
12	L9	201	CYC	CHB-C1B-C2B	-3.51	119.97	126.97
12	G6	201	CYC	CHD-C1D-ND	-3.51	117.37	125.29
12	E1	201	CYC	CHD-C1D-ND	-3.51	117.37	125.29
12	g7	201	CYC	C1B-C2B-C3B	-3.51	104.26	107.86
12	H6	201	CYC	CAB-C3B-C4B	3.51	126.79	121.37
12	O3	201	CYC	CHD-C1D-ND	-3.51	117.37	125.29
12	J4	202	CYC	CMD-C2D-C1D	3.51	130.72	125.62
12	J8	202	CYC	CMD-C2D-C1D	3.51	130.72	125.62
12	F9	302	CYC	CMD-C2D-C1D	3.51	130.72	125.62
12	P1	202	CYC	CMD-C2D-C1D	3.50	130.71	125.62
12	B3	201	CYC	CHB-C1B-C2B	-3.50	119.98	126.97
12	B1	201	CYC	CHB-C1B-C2B	-3.50	119.98	126.97
12	WA	201	CYC	CHD-C1D-ND	-3.50	117.37	125.29
12	G3	201	CYC	CHD-C1D-ND	-3.50	117.37	125.29
12	N4	201	CYC	CHD-C1D-ND	-3.50	117.37	125.29
12	N8	201	CYC	CHD-C1D-ND	-3.50	117.37	125.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	W9	201	CYC	CHD-C1D-ND	-3.50	117.37	125.29
12	G1	201	CYC	CHD-C1D-ND	-3.50	117.37	125.29
12	O8	202	CYC	CMD-C2D-C1D	3.50	130.71	125.62
12	X4	201	CYC	C1B-NB-C4B	-3.50	106.36	110.66
12	X8	201	CYC	C1B-NB-C4B	-3.50	106.36	110.66
12	P3	202	CYC	CMD-C2D-C1D	3.50	130.71	125.62
12	EA	201	CYC	CHD-C1D-ND	-3.50	117.38	125.29
12	E9	201	CYC	CHD-C1D-ND	-3.50	117.38	125.29
12	H4	201	CYC	CAB-C3B-C4B	3.50	126.79	121.37
12	L6	201	CYC	CAB-C3B-C4B	3.50	126.79	121.37
12	H8	201	CYC	CAB-C3B-C4B	3.50	126.79	121.37
12	IA	201	CYC	C1B-NB-C4B	-3.50	106.36	110.66
12	K4	201	CYC	C1B-NB-C4B	-3.50	106.36	110.66
12	I9	201	CYC	C1B-NB-C4B	-3.50	106.36	110.66
12	C2	201	CYC	C1B-NB-C4B	-3.50	106.36	110.66
12	Z3	201	CYC	CAB-C3B-C4B	3.50	126.78	121.37
12	E9	201	CYC	C1B-NB-C4B	-3.50	106.37	110.66
12	AA	201	CYC	CHD-C1D-ND	-3.50	117.39	125.29
12	A9	201	CYC	CHD-C1D-ND	-3.50	117.39	125.29
12	BA	202	CYC	CHB-C1B-C2B	-3.50	119.99	126.97
12	F8	202	CYC	CAB-C3B-C4B	3.50	126.78	121.37
12	o7	201	CYC	C1B-C2B-C3B	-3.50	104.27	107.86
12	D4	201	CYC	CHB-C1B-C2B	-3.50	119.99	126.97
12	D8	201	CYC	CHB-C1B-C2B	-3.50	119.99	126.97
12	F9	302	CYC	CHB-C1B-C2B	-3.50	119.99	126.97
12	V9	202	CYC	CHB-C1B-C2B	-3.50	119.99	126.97
12	F4	201	CYC	CHB-C1B-C2B	-3.50	119.99	126.97
12	F8	201	CYC	CHB-C1B-C2B	-3.50	119.99	126.97
12	J3	201	CYC	CHB-C1B-C2B	-3.50	120.00	126.97
12	JA	202	CYC	CAB-C3B-C4B	3.50	126.78	121.37
12	J9	202	CYC	CAB-C3B-C4B	3.50	126.78	121.37
12	DA	202	CYC	OC-C1C-C2C	-3.50	123.39	126.17
12	D9	202	CYC	OC-C1C-C2C	-3.50	123.39	126.17
12	W1	201	CYC	OC-C1C-C2C	-3.50	123.39	126.17
12	E4	201	CYC	C1B-NB-C4B	-3.49	106.37	110.66
12	ZA	201	CYC	CMD-C2D-C1D	3.49	130.70	125.62
12	Z9	201	CYC	CMD-C2D-C1D	3.49	130.70	125.62
12	TA	302	CYC	CHB-C1B-C2B	-3.49	120.00	126.97
12	S4	201	CYC	CHB-C1B-C2B	-3.49	120.00	126.97
12	S8	201	CYC	CHB-C1B-C2B	-3.49	120.00	126.97
12	F9	303	CYC	CHB-C1B-C2B	-3.49	120.00	126.97
12	DA	201	CYC	CAB-C3B-C4B	3.49	126.77	121.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	D9	201	CYC	CAB-C3B-C4B	3.49	126.77	121.37
12	B9	202	CYC	CHB-C1B-C2B	-3.49	120.00	126.97
12	G4	201	CYC	CHD-C1D-ND	-3.49	117.40	125.29
12	G8	201	CYC	CHD-C1D-ND	-3.49	117.40	125.29
12	C4	201	CYC	CHD-C1D-ND	-3.49	117.40	125.29
12	C8	201	CYC	CHD-C1D-ND	-3.49	117.40	125.29
12	e5	201	CYC	C1B-C2B-C3B	-3.49	104.28	107.86
12	S5	201	CYC	C1B-C2B-C3B	-3.49	104.28	107.86
12	F9	303	CYC	CMD-C2D-C1D	3.49	130.69	125.62
12	H9	202	CYC	CAB-C3B-C4B	3.49	126.77	121.37
12	F2	201	CYC	CMB-C2B-C1B	3.49	128.40	124.16
12	L2	201	CYC	CAB-C3B-C4B	3.49	126.77	121.37
12	Y5	201	CYC	C1B-C2B-C3B	-3.49	104.28	107.86
12	G4	201	CYC	C1B-NB-C4B	-3.49	106.38	110.66
12	G8	201	CYC	C1B-NB-C4B	-3.49	106.38	110.66
12	P4	201	CYC	CHD-C1D-ND	-3.49	117.41	125.29
12	v7	201	CYC	C4D-C3D-C2D	-3.49	103.56	107.62
12	L4	201	CYC	CHB-C1B-C2B	-3.49	120.02	126.97
12	L8	201	CYC	CHB-C1B-C2B	-3.49	120.02	126.97
12	Z1	202	CYC	CAB-C3B-C4B	3.49	126.76	121.37
12	H3	202	CYC	CAB-C3B-C4B	3.48	126.76	121.37
12	T3	301	CYC	CAB-C3B-C4B	3.48	126.76	121.37
12	T1	301	CYC	CAB-C3B-C4B	3.48	126.76	121.37
12	a5	201	CYC	C1B-C2B-C3B	-3.48	104.28	107.86
12	HA	202	CYC	CAB-C3B-C4B	3.48	126.76	121.37
12	R1	201	CYC	CAB-C3B-C4B	3.48	126.76	121.37
12	R3	201	CYC	CAB-C3B-C4B	3.48	126.76	121.37
12	F4	202	CYC	CAB-C3B-C4B	3.48	126.76	121.37
12	L2	202	CYC	CHB-C1B-C2B	-3.48	120.02	126.97
12	GA	201	CYC	C1B-NB-C4B	-3.48	106.39	110.66
12	G9	201	CYC	C1B-NB-C4B	-3.48	106.39	110.66
12	L6	202	CYC	CHB-C1B-C2B	-3.48	120.03	126.97
12	L3	202	CYC	CAB-C3B-C4B	3.48	126.75	121.37
12	D6	201	CYC	CAB-C3B-C4B	3.48	126.75	121.37
12	aA	902	CYC	CAB-C3B-C4B	3.48	126.75	121.37
12	R1	202	CYC	CHB-C1B-C2B	-3.48	120.03	126.97
12	R3	202	CYC	CHB-C1B-C2B	-3.48	120.03	126.97
12	M5	201	CYC	C1B-C2B-C3B	-3.48	104.28	107.86
12	I5	201	CYC	CMD-C2D-C1D	3.48	130.68	125.62
12	N2	101	CYC	CAB-C3B-C4B	3.48	126.75	121.37
12	C2	201	CYC	CMA-C3A-C4A	3.48	130.50	125.10
12	C5	201	CYC	CMD-C2D-C1D	3.48	130.67	125.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	O4	201	CYC	CAB-C3B-C4B	3.48	126.75	121.37
12	O8	201	CYC	CAB-C3B-C4B	3.48	126.75	121.37
12	E5	201	CYC	C1B-C2B-C3B	-3.48	104.29	107.86
12	X3	201	CYC	CAB-C3B-C4B	3.48	126.75	121.37
12	R4	201	CYC	OC-C1C-C2C	-3.47	123.41	126.17
12	R8	201	CYC	OC-C1C-C2C	-3.47	123.41	126.17
12	FA	301	CYC	CAB-C3B-C4B	3.47	126.74	121.37
12	F9	301	CYC	CAB-C3B-C4B	3.47	126.74	121.37
12	UA	201	CYC	CHD-C1D-ND	-3.47	117.44	125.29
12	F5	201	CYC	C1A-C2A-C3A	-3.47	102.97	106.73
12	EA	201	CYC	OC-C1C-C2C	-3.47	123.41	126.17
12	SA	201	CYC	OC-C1C-C2C	-3.47	123.41	126.17
12	W4	202	CYC	OC-C1C-C2C	-3.47	123.41	126.17
12	W8	202	CYC	OC-C1C-C2C	-3.47	123.41	126.17
12	E9	201	CYC	OC-C1C-C2C	-3.47	123.41	126.17
12	S9	201	CYC	OC-C1C-C2C	-3.47	123.41	126.17
12	W5	201	CYC	C1B-C2B-C3B	-3.47	104.29	107.86
12	H1	201	CYC	CAB-C3B-C4B	3.47	126.74	121.37
12	L4	202	CYC	CAB-C3B-C4B	3.47	126.74	121.37
12	Q4	201	CYC	CHB-C1B-C2B	-3.47	120.04	126.97
12	X7	201	CYC	C1A-C2A-C3A	-3.47	102.97	106.73
12	ZA	201	CYC	CHB-C1B-C2B	-3.47	120.05	126.97
12	Z9	201	CYC	CHB-C1B-C2B	-3.47	120.05	126.97
12	L3	201	CYC	CHB-C1B-C2B	-3.47	120.05	126.97
12	L1	201	CYC	CHB-C1B-C2B	-3.47	120.05	126.97
12	N6	101	CYC	CAB-C3B-C4B	3.47	126.74	121.37
12	N4	201	CYC	CMA-C3A-C4A	3.47	130.49	125.10
12	DA	202	CYC	CHB-C1B-C2B	-3.47	120.05	126.97
12	D9	202	CYC	CHB-C1B-C2B	-3.47	120.05	126.97
12	A6	201	CYC	CHD-C1D-ND	-3.47	117.45	125.29
12	AA	201	CYC	OC-C1C-C2C	-3.47	123.42	126.17
12	J2	201	CYC	OC-C1C-C2C	-3.47	123.42	126.17
12	A9	201	CYC	OC-C1C-C2C	-3.47	123.42	126.17
12	V8	201	CYC	C1B-NB-C4B	-3.47	106.40	110.66
12	b7	201	CYC	C1A-C2A-C3A	-3.47	102.97	106.73
12	G7	201	CYC	C1B-C2B-C3B	-3.47	104.30	107.86
12	P8	201	CYC	CHD-C1D-ND	-3.47	117.46	125.29
12	IA	201	CYC	OC-C1C-C2C	-3.47	123.42	126.17
12	VA	202	CYC	OC-C1C-C2C	-3.47	123.42	126.17
12	P3	202	CYC	OC-C1C-C2C	-3.47	123.42	126.17
12	I9	201	CYC	OC-C1C-C2C	-3.47	123.42	126.17
12	V9	202	CYC	OC-C1C-C2C	-3.47	123.42	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	C6	201	CYC	C1B-NB-C4B	-3.47	106.41	110.66
12	I3	201	CYC	CHD-C1D-ND	-3.46	117.46	125.29
12	I1	201	CYC	CHD-C1D-ND	-3.46	117.46	125.29
12	D4	202	CYC	CAB-C3B-C4B	3.46	126.73	121.37
12	D8	202	CYC	CAB-C3B-C4B	3.46	126.73	121.37
12	A2	201	CYC	CHD-C1D-ND	-3.46	117.46	125.29
12	F6	202	CYC	CHB-C1B-C2B	-3.46	120.06	126.97
12	Z4	301	CYC	CAB-C3B-C4B	3.46	126.73	121.37
12	A1	201	CYC	CMA-C3A-C4A	3.46	130.48	125.10
12	A3	201	CYC	CMA-C3A-C4A	3.46	130.48	125.10
12	D2	202	CYC	CHB-C1B-C2B	-3.46	120.06	126.97
12	U9	201	CYC	CHD-C1D-ND	-3.46	117.47	125.29
12	ZA	201	CYC	OC-C1C-C2C	-3.46	123.42	126.17
12	Z9	201	CYC	OC-C1C-C2C	-3.46	123.42	126.17
12	D1	202	CYC	CAB-C3B-C4B	3.46	126.72	121.37
12	K2	201	CYC	C1B-NB-C4B	-3.46	106.41	110.66
12	C4	201	CYC	C1B-NB-C4B	-3.46	106.41	110.66
12	C8	201	CYC	C1B-NB-C4B	-3.46	106.41	110.66
12	K4	201	CYC	CHD-C1D-ND	-3.46	117.47	125.29
12	K8	201	CYC	CHD-C1D-ND	-3.46	117.47	125.29
12	D3	202	CYC	CAB-C3B-C4B	3.46	126.72	121.37
12	T1	302	CYC	OC-C1C-C2C	-3.46	123.42	126.17
12	K5	201	CYC	C1B-C2B-C3B	-3.46	104.31	107.86
12	X5	201	CYC	C1A-C2A-C3A	-3.46	102.98	106.73
12	K7	201	CYC	C1B-C2B-C3B	-3.46	104.31	107.86
12	c5	201	CYC	C1B-C2B-C3B	-3.46	104.31	107.86
12	TA	301	CYC	CAB-C3B-C4B	3.46	126.72	121.37
12	T9	301	CYC	CAB-C3B-C4B	3.46	126.72	121.37
12	m7	201	CYC	C1B-C2B-C3B	-3.46	104.31	107.86
12	GA	201	CYC	CHD-C1D-ND	-3.46	117.48	125.29
12	G9	201	CYC	CHD-C1D-ND	-3.46	117.48	125.29
12	Q8	201	CYC	CHB-C1B-C2B	-3.46	120.08	126.97
12	BA	201	CYC	CAB-C3B-C4B	3.46	126.72	121.37
12	B3	202	CYC	CAB-C3B-C4B	3.46	126.72	121.37
12	B9	201	CYC	CAB-C3B-C4B	3.46	126.72	121.37
12	D6	202	CYC	CHB-C1B-C2B	-3.46	120.08	126.97
12	B1	202	CYC	CAB-C3B-C4B	3.46	126.72	121.37
12	X1	201	CYC	CAB-C3B-C4B	3.45	126.71	121.37
12	E7	201	CYC	C1B-C2B-C3B	-3.45	104.31	107.86
12	H2	201	CYC	CAB-C3B-C4B	3.45	126.71	121.37
12	W3	201	CYC	OC-C1C-C2C	-3.45	123.43	126.17
12	a9	901	CYC	CAB-C3B-C4B	3.45	126.71	121.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	U7	201	CYC	C1B-C2B-C3B	-3.45	104.31	107.86
12	K6	201	CYC	C1B-NB-C4B	-3.45	106.42	110.66
12	I1	201	CYC	CMA-C3A-C4A	3.45	130.46	125.10
12	F1	201	CYC	CAB-C3B-C4B	3.45	126.71	121.37
12	O4	202	CYC	CHB-C1B-C2B	-3.45	120.09	126.97
12	O8	202	CYC	CHB-C1B-C2B	-3.45	120.09	126.97
12	W9	201	CYC	C1B-NB-C4B	-3.45	106.43	110.66
12	j7	201	CYC	C1A-C2A-C3A	-3.45	103.00	106.73
12	UA	201	CYC	CMA-C3A-C4A	3.45	130.46	125.10
12	N8	201	CYC	CMA-C3A-C4A	3.45	130.46	125.10
12	U9	201	CYC	CMA-C3A-C4A	3.45	130.46	125.10
12	X7	201	CYC	CMA-C3A-C4A	3.45	130.45	125.10
12	C3	201	CYC	C1B-NB-C4B	-3.45	106.43	110.66
12	C1	201	CYC	C1B-NB-C4B	-3.45	106.43	110.66
12	Q9	201	CYC	C1B-NB-C4B	-3.45	106.43	110.66
12	O1	201	CYC	C1B-NB-C4B	-3.45	106.43	110.66
12	O3	201	CYC	C1B-NB-C4B	-3.45	106.43	110.66
12	G1	201	CYC	CMA-C3A-C4A	3.45	130.45	125.10
12	h7	201	CYC	C1A-C2A-C3A	-3.45	103.00	106.73
12	d7	201	CYC	C1A-C2A-C3A	-3.45	103.00	106.73
12	f7	201	CYC	C1A-C2A-C3A	-3.45	103.00	106.73
12	RA	201	CYC	CAB-C3B-C4B	3.44	126.70	121.37
12	R9	201	CYC	CAB-C3B-C4B	3.44	126.70	121.37
12	H5	201	CYC	CMA-C3A-C4A	3.44	130.45	125.10
12	N7	201	CYC	C1A-C2A-C3A	-3.44	103.00	106.73
12	I3	201	CYC	CMA-C3A-C4A	3.44	130.44	125.10
12	K8	201	CYC	CMA-C3A-C4A	3.44	130.44	125.10
12	X4	201	CYC	OC-C1C-C2C	-3.44	123.44	126.17
12	X8	201	CYC	OC-C1C-C2C	-3.44	123.44	126.17
12	Z8	301	CYC	CAB-C3B-C4B	3.44	126.69	121.37
12	O3	201	CYC	CMA-C3A-C4A	3.44	130.44	125.10
12	P1	202	CYC	OC-C1C-C2C	-3.44	123.44	126.17
12	T5	201	CYC	C1A-C2A-C3A	-3.44	103.00	106.73
12	G3	201	CYC	CMA-C3A-C4A	3.44	130.44	125.10
12	k5	1202	CYC	C1B-C2B-C3B	-3.44	104.33	107.86
12	k5	1202	CYC	C1A-C2A-C3A	-3.44	103.01	106.73
12	S1	201	CYC	CMA-C3A-C4A	3.44	130.44	125.10
12	S3	201	CYC	CMA-C3A-C4A	3.44	130.44	125.10
12	D6	202	CYC	OC-C1C-C2C	-3.44	123.44	126.17
12	k7	201	CYC	C1B-C2B-C3B	-3.44	104.33	107.86
12	q7	201	CYC	C1B-C2B-C3B	-3.44	104.33	107.86
12	B2	201	CYC	OC-C1C-C2C	-3.44	123.44	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	j5	1202	CYC	C1A-C2A-C3A	-3.44	103.01	106.73
12	QA	201	CYC	C1B-NB-C4B	-3.44	106.44	110.66
12	J6	201	CYC	OC-C1C-C2C	-3.44	123.44	126.17
12	f7	201	CYC	C1B-C2B-C3B	-3.44	104.33	107.86
12	u7	201	CYC	C1B-C2B-C3B	-3.44	104.33	107.86
12	V5	201	CYC	CMA-C3A-C4A	3.43	130.43	125.10
12	P7	201	CYC	C1A-C2A-C3A	-3.43	103.01	106.73
12	F2	202	CYC	CHB-C1B-C2B	-3.43	120.12	126.97
12	CA	201	CYC	CMA-C3A-C4A	3.43	130.43	125.10
12	C9	201	CYC	CMA-C3A-C4A	3.43	130.43	125.10
12	I6	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	U3	201	CYC	CHD-C1D-ND	-3.43	117.53	125.29
12	U1	201	CYC	CHD-C1D-ND	-3.43	117.53	125.29
12	F3	201	CYC	CAB-C3B-C4B	3.43	126.68	121.37
12	B4	202	CYC	CAB-C3B-C4B	3.43	126.68	121.37
12	Q4	201	CYC	OC-C1C-C2C	-3.43	123.44	126.17
12	UA	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	A1	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	A3	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	U9	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	O1	201	CYC	CMA-C3A-C4A	3.43	130.43	125.10
12	V4	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	R7	201	CYC	CMA-C3A-C4A	3.43	130.43	125.10
12	Q8	201	CYC	OC-C1C-C2C	-3.43	123.45	126.17
12	O9	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	P5	201	CYC	CMA-C3A-C4A	3.43	130.43	125.10
12	P4	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	P8	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	WA	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	U3	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	U1	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	D4	201	CYC	OC-C1C-C2C	-3.43	123.45	126.17
12	D8	201	CYC	OC-C1C-C2C	-3.43	123.45	126.17
12	A6	201	CYC	C1B-NB-C4B	-3.43	106.45	110.66
12	T3	302	CYC	OC-C1C-C2C	-3.43	123.45	126.17
12	E6	201	CYC	OC-C1C-C2C	-3.43	123.45	126.17
12	L5	201	CYC	C1A-C2A-C3A	-3.43	103.02	106.73
12	B7	201	CYC	C1A-C2A-C3A	-3.43	103.02	106.73
12	A2	201	CYC	C1B-NB-C4B	-3.43	106.46	110.66
12	OA	201	CYC	C1B-NB-C4B	-3.42	106.46	110.66
12	V4	201	CYC	CMA-C3A-C4A	3.42	130.42	125.10
12	G4	201	CYC	CMA-C3A-C4A	3.42	130.42	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	p7	201	CYC	CMA-C3A-C4A	3.42	130.42	125.10
12	K4	201	CYC	CMA-C3A-C4A	3.42	130.41	125.10
12	J3	201	CYC	OC-C1C-C2C	-3.42	123.45	126.17
12	J1	201	CYC	OC-C1C-C2C	-3.42	123.45	126.17
12	L5	201	CYC	C2D-C1D-ND	3.42	112.10	107.43
12	p7	201	CYC	C1B-C2B-C3B	-3.42	104.34	107.86
12	XA	202	CYC	OC-C1C-C2C	-3.42	123.45	126.17
12	X9	202	CYC	OC-C1C-C2C	-3.42	123.45	126.17
12	AA	201	CYC	CMA-C3A-C4A	3.42	130.41	125.10
12	A9	201	CYC	CMA-C3A-C4A	3.42	130.41	125.10
12	A6	201	CYC	CMA-C3A-C4A	3.42	130.41	125.10
12	F7	201	CYC	C1A-C2A-C3A	-3.42	103.03	106.73
12	H7	201	CYC	C2D-C1D-ND	3.42	112.09	107.43
12	v7	201	CYC	C2D-C1D-ND	3.42	112.09	107.43
12	M4	301	CYC	CAB-C3B-C4B	3.42	126.66	121.37
12	k5	1203	CYC	CMA-C3A-C4A	3.42	130.41	125.10
12	A2	201	CYC	CMA-C3A-C4A	3.42	130.41	125.10
12	P5	201	CYC	CHB-C4A-NA	-3.42	117.57	124.95
12	A	201	CYC	CHB-C4A-NA	-3.42	117.58	124.95
12	Z	201	CYC	CHB-C4A-NA	-3.42	117.58	124.95
12	j5	1202	CYC	CHB-C4A-NA	-3.42	117.58	124.95
12	IA	201	CYC	CMA-C3A-C4A	3.41	130.40	125.10
12	I9	201	CYC	CMA-C3A-C4A	3.41	130.40	125.10
12	V5	201	CYC	C2D-C1D-ND	3.41	112.09	107.43
12	P4	201	CYC	CMA-C3A-C4A	3.41	130.40	125.10
12	P8	201	CYC	CMA-C3A-C4A	3.41	130.40	125.10
12	B5	201	CYC	C1A-C2A-C3A	-3.41	103.03	106.73
12	W1	201	CYC	C1B-NB-C4B	-3.41	106.47	110.66
12	G8	201	CYC	CMA-C3A-C4A	3.41	130.40	125.10
12	QA	201	CYC	CMA-C3A-C4A	3.41	130.40	125.10
12	Q1	201	CYC	C1B-NB-C4B	-3.41	106.48	110.66
12	Q3	201	CYC	C1B-NB-C4B	-3.41	106.48	110.66
12	P5	201	CYC	C1A-C2A-C3A	-3.41	103.04	106.73
12	H7	201	CYC	C1A-C2A-C3A	-3.41	103.04	106.73
12	Q5	201	CYC	C1B-C2B-C3B	-3.41	104.36	107.86
12	v7	201	CYC	C1B-C2B-C3B	-3.41	104.36	107.86
12	Q9	201	CYC	CMA-C3A-C4A	3.41	130.39	125.10
12	k5	1204	CYC	CHB-C4A-NA	-3.41	117.59	124.95
12	N5	201	CYC	C1A-C2A-C3A	-3.41	103.04	106.73
12	V7	201	CYC	C1A-C2A-C3A	-3.41	103.04	106.73
12	S7	201	CYC	C1B-C2B-C3B	-3.41	104.36	107.86
12	p7	201	CYC	C2D-C1D-ND	3.41	112.08	107.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	r7	201	CYC	CMA-C3A-C4A	3.40	130.39	125.10
12	J5	201	CYC	C1A-C2A-C3A	-3.40	103.04	106.73
12	T8	201	CYC	CMA-C3A-C4A	3.40	130.38	125.10
12	B8	202	CYC	CAB-C3B-C4B	3.40	126.63	121.37
12	V5	201	CYC	CHB-C4A-NA	-3.40	117.61	124.95
12	V7	201	CYC	CHB-C4A-NA	-3.40	117.61	124.95
12	VA	202	CYC	C2D-C1D-ND	3.40	112.07	107.43
12	V9	202	CYC	C2D-C1D-ND	3.40	112.07	107.43
12	P1	201	CYC	CAB-C3B-C4B	3.40	126.63	121.37
12	P3	201	CYC	CAB-C3B-C4B	3.40	126.63	121.37
12	X4	201	CYC	CMA-C3A-C4A	3.40	130.38	125.10
12	B5	201	CYC	CMA-C3A-C4A	3.40	130.38	125.10
12	U4	202	CYC	OC-C1C-C2C	-3.40	123.47	126.17
12	U8	202	CYC	OC-C1C-C2C	-3.40	123.47	126.17
12	WA	201	CYC	CMA-C3A-C4A	3.40	130.38	125.10
12	J7	201	CYC	CMA-C3A-C4A	3.40	130.38	125.10
12	W7	201	CYC	C1B-C2B-C3B	-3.40	104.37	107.86
12	I2	201	CYC	C1B-NB-C4B	-3.40	106.49	110.66
12	H2	202	CYC	C4A-C3A-C2A	-3.40	102.62	106.48
12	H6	202	CYC	C4A-C3A-C2A	-3.40	102.62	106.48
12	K2	201	CYC	CMA-C3A-C4A	3.40	130.38	125.10
12	K6	201	CYC	CMA-C3A-C4A	3.40	130.38	125.10
12	V8	201	CYC	CMA-C3A-C4A	3.40	130.38	125.10
12	W3	201	CYC	C1B-NB-C4B	-3.40	106.49	110.66
12	KA	201	CYC	CMA-C3A-C4A	3.40	130.38	125.10
12	K9	201	CYC	CMA-C3A-C4A	3.40	130.38	125.10
12	d7	201	CYC	CMA-C3A-C4A	3.40	130.38	125.10
12	CA	201	CYC	C1B-NB-C4B	-3.40	106.49	110.66
12	C9	201	CYC	C1B-NB-C4B	-3.40	106.49	110.66
12	j7	201	CYC	CMA-C3A-C4A	3.40	130.38	125.10
12	K3	201	CYC	CMA-C3A-C4A	3.40	130.37	125.10
12	O9	201	CYC	CMA-C3A-C4A	3.40	130.37	125.10
12	K1	201	CYC	CMA-C3A-C4A	3.40	130.37	125.10
12	J5	201	CYC	CHB-C4A-NA	-3.40	117.62	124.95
12	s7	201	CYC	C1B-C2B-C3B	-3.40	104.37	107.86
12	V3	202	CYC	C4A-C3A-C2A	-3.40	102.62	106.48
12	V1	202	CYC	C4A-C3A-C2A	-3.40	102.62	106.48
12	U3	201	CYC	CMA-C3A-C4A	3.39	130.37	125.10
12	W9	201	CYC	CMA-C3A-C4A	3.39	130.37	125.10
12	U1	201	CYC	CMA-C3A-C4A	3.39	130.37	125.10
12	N7	201	CYC	C1B-C2B-C3B	-3.39	104.37	107.86
12	D2	202	CYC	OC-C1C-C2C	-3.39	123.47	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	C4	201	CYC	CMA-C3A-C4A	3.39	130.37	125.10
12	H5	201	CYC	C2D-C1D-ND	3.39	112.06	107.43
12	T4	201	CYC	CMA-C3A-C4A	3.39	130.37	125.10
12	N7	201	CYC	CHB-C4A-NA	-3.39	117.63	124.95
12	G2	201	CYC	CMA-C3A-C4A	3.39	130.36	125.10
12	X8	201	CYC	CMA-C3A-C4A	3.39	130.36	125.10
12	X5	201	CYC	C1B-C2B-C3B	-3.39	104.38	107.86
12	G3	201	CYC	C1B-NB-C4B	-3.39	106.50	110.66
12	D5	201	CYC	C1A-C2A-C3A	-3.39	103.06	106.73
12	E2	201	CYC	OC-C1C-C2C	-3.39	123.48	126.17
12	f7	201	CYC	CHB-C4A-NA	-3.39	117.64	124.95
12	OA	201	CYC	CMA-C3A-C4A	3.39	130.36	125.10
12	J7	201	CYC	CHB-C4A-NA	-3.39	117.64	124.95
12	L7	201	CYC	CMA-C3A-C4A	3.38	130.35	125.10
12	D5	201	CYC	CHB-C4A-NA	-3.38	117.64	124.95
12	p7	201	CYC	CHB-C4A-NA	-3.38	117.64	124.95
12	b5	201	CYC	C1A-C2A-C3A	-3.38	103.07	106.73
12	k5	1204	CYC	C1A-C2A-C3A	-3.38	103.07	106.73
12	RA	202	CYC	OC-C1C-C2C	-3.38	123.48	126.17
12	R9	202	CYC	OC-C1C-C2C	-3.38	123.48	126.17
12	b5	201	CYC	CHB-C4A-NA	-3.38	117.65	124.95
12	v7	201	CYC	CHB-C4A-NA	-3.38	117.65	124.95
12	BA	202	CYC	C4A-C3A-C2A	-3.38	102.64	106.48
12	B9	202	CYC	C4A-C3A-C2A	-3.38	102.64	106.48
12	k5	1204	CYC	C1B-C2B-C3B	-3.38	104.39	107.86
12	b7	201	CYC	C1B-C2B-C3B	-3.38	104.39	107.86
12	C8	201	CYC	CMA-C3A-C4A	3.38	130.35	125.10
12	G1	201	CYC	C1B-NB-C4B	-3.38	106.51	110.66
12	H1	202	CYC	C4A-C3A-C2A	-3.38	102.64	106.48
12	Z5	201	CYC	CHB-C4A-NA	-3.38	117.65	124.95
12	R7	201	CYC	C1A-C2A-C3A	-3.38	103.07	106.73
12	Y3	201	CYC	C1B-NB-C4B	-3.38	106.51	110.66
12	Y1	201	CYC	C1B-NB-C4B	-3.38	106.51	110.66
12	C3	201	CYC	CMA-C3A-C4A	3.38	130.35	125.10
12	C1	201	CYC	CMA-C3A-C4A	3.38	130.35	125.10
12	T7	201	CYC	C1A-C2A-C3A	-3.38	103.07	106.73
12	d5	201	CYC	CHB-C4A-NA	-3.38	117.66	124.95
12	X7	201	CYC	CHB-C4A-NA	-3.38	117.66	124.95
12	j5	1202	CYC	C1B-C2B-C3B	-3.38	104.39	107.86
12	O4	202	CYC	C4A-C3A-C2A	-3.38	102.64	106.48
12	O8	202	CYC	C4A-C3A-C2A	-3.38	102.64	106.48
12	k5	1202	CYC	CHB-C4A-NA	-3.38	117.66	124.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	D7	201	CYC	CHB-C4A-NA	-3.38	117.66	124.95
12	N4	201	CYC	C1B-NB-C4B	-3.38	106.52	110.66
12	N5	201	CYC	CHB-C4A-NA	-3.38	117.66	124.95
12	A4	201	CYC	CMA-C3A-C4A	3.37	130.34	125.10
12	A8	201	CYC	CMA-C3A-C4A	3.37	130.34	125.10
12	W3	201	CYC	CMA-C3A-C4A	3.37	130.34	125.10
12	R5	201	CYC	C1B-C2B-C3B	-3.37	104.39	107.86
12	H7	201	CYC	C1B-C2B-C3B	-3.37	104.39	107.86
12	I7	201	CYC	C1B-C2B-C3B	-3.37	104.40	107.86
12	P5	201	CYC	C2D-C1D-ND	3.37	112.03	107.43
12	P7	201	CYC	CHB-C4A-NA	-3.37	117.67	124.95
12	G6	201	CYC	CMA-C3A-C4A	3.37	130.34	125.10
12	v7	201	CYC	CMA-C3A-C4A	3.37	130.34	125.10
12	F5	201	CYC	C2D-C1D-ND	3.37	112.03	107.43
12	D5	201	CYC	C1B-C2B-C3B	-3.37	104.40	107.86
12	W1	201	CYC	CMA-C3A-C4A	3.37	130.33	125.10
12	L4	201	CYC	C4A-C3A-C2A	-3.37	102.65	106.48
12	L8	201	CYC	C4A-C3A-C2A	-3.37	102.65	106.48
12	f5	201	CYC	C1B-C2B-C3B	-3.37	104.40	107.86
12	R7	201	CYC	C1B-C2B-C3B	-3.37	104.40	107.86
12	B8	201	CYC	OC-C1C-C2C	-3.37	123.49	126.17
12	H7	201	CYC	CMA-C3A-C4A	3.37	130.33	125.10
12	p7	201	CYC	C1A-C2A-C3A	-3.37	103.08	106.73
12	YA	201	CYC	CMA-C3A-C4A	3.37	130.33	125.10
12	Y9	201	CYC	CMA-C3A-C4A	3.37	130.33	125.10
12	B5	201	CYC	C2D-C1D-ND	3.37	112.02	107.43
12	T7	201	CYC	CHB-C4A-NA	-3.37	117.68	124.95
12	B7	201	CYC	CHB-C4A-NA	-3.37	117.68	124.95
12	PA	202	CYC	OC-C1C-C2C	-3.37	123.50	126.17
12	P9	202	CYC	OC-C1C-C2C	-3.37	123.50	126.17
12	F5	201	CYC	CHB-C4A-NA	-3.37	117.69	124.95
12	HA	201	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	H9	201	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	D7	201	CYC	CMA-C3A-C4A	3.36	130.32	125.10
12	E9	201	CYC	CMA-C3A-C4A	3.36	130.32	125.10
12	L5	201	CYC	CHB-C4A-NA	-3.36	117.69	124.95
12	O4	202	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	L8	201	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	O8	202	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	B9	202	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	H5	201	CYC	C1A-C2A-C3A	-3.36	103.09	106.73
12	L7	201	CYC	C1A-C2A-C3A	-3.36	103.09	106.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	H7	201	CYC	CHB-C4A-NA	-3.36	117.69	124.95
12	k5	1203	CYC	C2D-C1D-ND	3.36	112.02	107.43
12	F7	201	CYC	CMA-C3A-C4A	3.36	130.32	125.10
12	V5	201	CYC	C1A-C2A-C3A	-3.36	103.09	106.73
12	r7	201	CYC	CHB-C4A-NA	-3.36	117.69	124.95
12	GA	201	CYC	CMA-C3A-C4A	3.36	130.32	125.10
12	G9	201	CYC	CMA-C3A-C4A	3.36	130.32	125.10
12	Z3	202	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	Z1	201	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	C7	201	CYC	C1B-C2B-C3B	-3.36	104.41	107.86
12	H3	201	CYC	C4A-C3A-C2A	-3.36	102.67	106.48
12	LA	201	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	L9	201	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	D7	201	CYC	C1B-C2B-C3B	-3.36	104.41	107.86
12	P7	201	CYC	C2D-C1D-ND	3.36	112.01	107.43
12	B7	201	CYC	C2D-C1D-ND	3.36	112.01	107.43
12	E4	201	CYC	CMA-C3A-C4A	3.36	130.31	125.10
12	L3	201	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	J4	202	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	J8	202	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	L1	201	CYC	OC-C1C-C2C	-3.36	123.50	126.17
12	I4	201	CYC	CMA-C3A-C4A	3.36	130.31	125.10
12	E6	201	CYC	CMA-C3A-C4A	3.36	130.31	125.10
12	I8	201	CYC	CMA-C3A-C4A	3.36	130.31	125.10
12	V7	201	CYC	C2D-C1D-ND	3.36	112.01	107.43
12	I4	201	CYC	C1B-NB-C4B	-3.35	106.54	110.66
12	I8	201	CYC	C1B-NB-C4B	-3.35	106.54	110.66
12	f5	201	CYC	CMA-C3A-C4A	3.35	130.31	125.10
12	k5	1204	CYC	CMA-C3A-C4A	3.35	130.31	125.10
12	P9	202	CYC	C2D-C1D-ND	3.35	112.00	107.43
12	H5	201	CYC	CHB-C4A-NA	-3.35	117.71	124.95
12	E3	201	CYC	CMA-C3A-C4A	3.35	130.31	125.10
12	E1	201	CYC	CMA-C3A-C4A	3.35	130.31	125.10
12	T5	201	CYC	CHB-C4A-NA	-3.35	117.71	124.95
12	H3	201	CYC	OC-C1C-C2C	-3.35	123.51	126.17
12	H1	202	CYC	OC-C1C-C2C	-3.35	123.51	126.17
12	B4	201	CYC	C4A-C3A-C2A	-3.35	102.67	106.48
12	B8	201	CYC	C4A-C3A-C2A	-3.35	102.67	106.48
12	J7	201	CYC	C1A-C2A-C3A	-3.35	103.10	106.73
12	T7	201	CYC	C1B-C2B-C3B	-3.35	104.42	107.86
12	T3	302	CYC	C4A-C3A-C2A	-3.35	102.67	106.48
12	T1	302	CYC	C4A-C3A-C2A	-3.35	102.67	106.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Q1	201	CYC	CMA-C3A-C4A	3.35	130.30	125.10
12	Q3	201	CYC	CMA-C3A-C4A	3.35	130.30	125.10
12	M8	301	CYC	CAB-C3B-C4B	3.35	126.55	121.37
12	B5	201	CYC	CHB-C4A-NA	-3.35	117.72	124.95
12	B6	201	CYC	OC-C1C-C2C	-3.35	123.51	126.17
12	J5	201	CYC	C1B-C2B-C3B	-3.35	104.42	107.86
12	EA	201	CYC	CMA-C3A-C4A	3.35	130.30	125.10
12	h7	201	CYC	C1B-C2B-C3B	-3.35	104.42	107.86
12	V7	201	CYC	CMA-C3A-C4A	3.35	130.29	125.10
12	Z5	201	CYC	C2D-C1D-ND	3.35	111.99	107.43
12	F3	202	CYC	C4A-C3A-C2A	-3.34	102.68	106.48
12	f5	201	CYC	CHB-C4A-NA	-3.34	117.73	124.95
12	R7	201	CYC	CHB-C4A-NA	-3.34	117.73	124.95
12	N8	201	CYC	C1B-NB-C4B	-3.34	106.56	110.66
12	D5	201	CYC	C2D-C1D-ND	3.34	111.99	107.43
12	Y3	201	CYC	CMA-C3A-C4A	3.34	130.29	125.10
12	Y1	201	CYC	CMA-C3A-C4A	3.34	130.29	125.10
12	B4	201	CYC	OC-C1C-C2C	-3.34	123.52	126.17
12	U4	202	CYC	C4A-C3A-C2A	-3.34	102.68	106.48
12	B7	201	CYC	CMA-C3A-C4A	3.34	130.29	125.10
12	r7	201	CYC	C2D-C1D-ND	3.34	111.99	107.43
12	k5	1201	CYC	C1B-CHB-C4A	3.34	136.26	128.06
12	R4	201	CYC	CMA-C3A-C4A	3.34	130.29	125.10
12	E2	201	CYC	CMA-C3A-C4A	3.34	130.29	125.10
12	A5	201	CYC	C4D-C3D-C2D	-3.34	103.73	107.62
12	A	201	CYC	C1A-C2A-C3A	-3.34	103.11	106.73
12	B5	201	CYC	C1B-C2B-C3B	-3.34	104.43	107.86
12	BA	202	CYC	OC-C1C-C2C	-3.34	123.52	126.17
12	D5	201	CYC	CMA-C3A-C4A	3.34	130.28	125.10
12	J6	201	CYC	C2D-C1D-ND	3.34	111.98	107.43
12	F7	201	CYC	CHB-C4A-NA	-3.34	117.75	124.95
12	A	201	CYC	CMA-C3A-C4A	3.34	130.28	125.10
12	XA	202	CYC	C2D-C1D-ND	3.34	111.98	107.43
12	S4	201	CYC	C2D-C1D-ND	3.34	111.98	107.43
12	j7	201	CYC	C2D-C1D-ND	3.34	111.98	107.43
12	S8	201	CYC	C2D-C1D-ND	3.34	111.98	107.43
12	X9	202	CYC	C2D-C1D-ND	3.34	111.98	107.43
12	R8	201	CYC	CMA-C3A-C4A	3.34	130.28	125.10
12	j5	1201	CYC	C1B-CHB-C4A	3.34	136.24	128.06
12	d7	201	CYC	CHB-C4A-NA	-3.33	117.75	124.95
12	L4	201	CYC	OC-C1C-C2C	-3.33	123.52	126.17
12	k5	1203	CYC	CHB-C4A-NA	-3.33	117.75	124.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	b5	201	CYC	C1B-C2B-C3B	-3.33	104.44	107.86
12	P7	201	CYC	CMA-C3A-C4A	3.33	130.28	125.10
12	E8	201	CYC	CMA-C3A-C4A	3.33	130.28	125.10
12	L7	201	CYC	CHB-C4A-NA	-3.33	117.75	124.95
12	B7	201	CYC	C1B-C2B-C3B	-3.33	104.44	107.86
12	j5	1202	CYC	CMA-C3A-C4A	3.33	130.27	125.10
12	d5	201	CYC	C1A-C2A-C3A	-3.33	103.12	106.73
12	W4	202	CYC	C2D-C1D-ND	3.33	111.97	107.43
12	R5	201	CYC	C2D-C1D-ND	3.33	111.97	107.43
12	j7	201	CYC	CHB-C4A-NA	-3.33	117.76	124.95
12	JA	201	CYC	C2D-C1D-ND	3.33	111.97	107.43
12	J9	201	CYC	C2D-C1D-ND	3.33	111.97	107.43
12	AA	201	CYC	C1B-NB-C4B	-3.33	106.58	110.66
12	A9	201	CYC	C1B-NB-C4B	-3.33	106.58	110.66
12	R7	201	CYC	C2D-C1D-ND	3.33	111.97	107.43
12	d7	201	CYC	C2D-C1D-ND	3.33	111.97	107.43
12	P1	201	CYC	C1D-C2D-C3D	-3.33	103.59	107.76
12	PA	202	CYC	C2D-C1D-ND	3.33	111.97	107.43
12	S4	201	CYC	C4A-C3A-C2A	-3.33	102.70	106.48
12	R5	201	CYC	CMA-C3A-C4A	3.33	130.27	125.10
12	D7	201	CYC	C2D-C1D-ND	3.33	111.97	107.43
12	b7	201	CYC	CMA-C3A-C4A	3.33	130.26	125.10
12	X5	201	CYC	C2D-C1D-ND	3.33	111.97	107.43
12	D7	201	CYC	C1A-C2A-C3A	-3.33	103.13	106.73
12	V5	201	CYC	C1B-C2B-C3B	-3.33	104.44	107.86
12	J7	201	CYC	C2D-C1D-ND	3.33	111.97	107.43
12	T7	201	CYC	C2D-C1D-ND	3.33	111.97	107.43
12	J3	201	CYC	C2D-C1D-ND	3.32	111.97	107.43
12	J1	201	CYC	C2D-C1D-ND	3.32	111.97	107.43
12	L3	201	CYC	C4A-C3A-C2A	-3.32	102.70	106.48
12	L1	201	CYC	C4A-C3A-C2A	-3.32	102.70	106.48
12	f5	201	CYC	C2D-C1D-ND	3.32	111.96	107.43
12	U8	202	CYC	C4A-C3A-C2A	-3.32	102.70	106.48
12	X5	201	CYC	CHB-C4A-NA	-3.32	117.78	124.95
12	DA	202	CYC	C2D-C1D-ND	3.32	111.96	107.43
12	D6	202	CYC	C2D-C1D-ND	3.32	111.96	107.43
12	D9	202	CYC	C2D-C1D-ND	3.32	111.96	107.43
12	D2	202	CYC	C2D-C1D-ND	3.32	111.96	107.43
12	P3	201	CYC	C1D-C2D-C3D	-3.32	103.60	107.76
12	X5	201	CYC	CMA-C3A-C4A	3.32	130.26	125.10
12	f7	201	CYC	C2D-C1D-ND	3.32	111.96	107.43
12	Z1	201	CYC	C2D-C1D-ND	3.32	111.96	107.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G5	201	CYC	C4D-C3D-C2D	-3.32	103.76	107.62
12	b5	201	CYC	CMA-C3A-C4A	3.32	130.25	125.10
12	T9	302	CYC	C2A-C1A-NA	3.32	114.74	110.04
12	J5	201	CYC	CMA-C3A-C4A	3.32	130.25	125.10
12	F1	202	CYC	C4A-C3A-C2A	-3.32	102.71	106.48
12	JA	201	CYC	OC-C1C-C2C	-3.32	123.53	126.17
12	J9	201	CYC	OC-C1C-C2C	-3.32	123.53	126.17
12	h7	201	CYC	CMA-C3A-C4A	3.32	130.25	125.10
12	Z	201	CYC	CMA-C3A-C4A	3.32	130.25	125.10
12	P5	201	CYC	C1B-C2B-C3B	-3.32	104.45	107.86
12	Z5	201	CYC	C1B-C2B-C3B	-3.31	104.45	107.86
12	v7	201	CYC	C1A-C2A-C3A	-3.31	103.14	106.73
12	B1	201	CYC	OC-C1C-C2C	-3.31	123.54	126.17
12	N7	201	CYC	CMA-C3A-C4A	3.31	130.25	125.10
12	N5	201	CYC	C2D-C1D-ND	3.31	111.95	107.43
12	F3	202	CYC	C2A-C1A-NA	3.31	114.73	110.04
12	A	201	CYC	C2D-C1D-ND	3.31	111.95	107.43
12	D3	201	CYC	OC-C1C-C2C	-3.31	123.54	126.17
12	D1	201	CYC	OC-C1C-C2C	-3.31	123.54	126.17
12	SA	201	CYC	CMA-C3A-C4A	3.31	130.24	125.10
12	S9	201	CYC	CMA-C3A-C4A	3.31	130.24	125.10
12	ZA	201	CYC	C4A-C3A-C2A	-3.31	102.72	106.48
12	F9	303	CYC	C4A-C3A-C2A	-3.31	102.72	106.48
12	Z9	201	CYC	C4A-C3A-C2A	-3.31	102.72	106.48
12	T5	201	CYC	C1B-C2B-C3B	-3.31	104.46	107.86
12	F9	302	CYC	C4A-C3A-C2A	-3.31	102.72	106.48
12	b5	201	CYC	C2D-C1D-ND	3.31	111.95	107.43
12	T7	201	CYC	CMA-C3A-C4A	3.31	130.24	125.10
12	h7	201	CYC	C2D-C1D-ND	3.31	111.95	107.43
12	U5	201	CYC	C4D-C3D-C2D	-3.31	103.77	107.62
12	L6	202	CYC	OC-C1C-C2C	-3.31	123.54	126.17
12	d5	201	CYC	C1B-C2B-C3B	-3.31	104.46	107.86
12	k5	1202	CYC	C2D-C1D-ND	3.31	111.94	107.43
12	d5	201	CYC	C2D-C1D-ND	3.31	111.94	107.43
12	L1	201	CYC	C2D-C1D-ND	3.31	111.94	107.43
12	P7	201	CYC	C1B-C2B-C3B	-3.31	104.46	107.86
12	Y4	201	CYC	C2D-C1D-ND	3.31	111.94	107.43
12	N7	201	CYC	C2D-C1D-ND	3.31	111.94	107.43
12	k5	1202	CYC	CMA-C3A-C4A	3.31	130.24	125.10
12	Z5	201	CYC	C1A-C2A-C3A	-3.31	103.15	106.73
12	L7	201	CYC	C1B-C2B-C3B	-3.31	104.46	107.86
12	R1	202	CYC	C4A-C3A-C2A	-3.31	102.72	106.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	R3	202	CYC	C4A-C3A-C2A	-3.31	102.72	106.48
12	J5	201	CYC	C2D-C1D-ND	3.31	111.94	107.43
12	N5	201	CYC	CMA-C3A-C4A	3.31	130.23	125.10
12	B2	201	CYC	C4A-C3A-C2A	-3.31	102.72	106.48
12	A8	201	CYC	C1B-NB-C4B	-3.30	106.61	110.66
12	S8	201	CYC	C4A-C3A-C2A	-3.30	102.73	106.48
12	F7	201	CYC	C1B-C2B-C3B	-3.30	104.47	107.86
12	A7	201	CYC	C4D-C3D-C2D	-3.30	103.78	107.62
12	H5	201	CYC	C1B-C2B-C3B	-3.30	104.47	107.86
12	f5	201	CYC	C1A-C2A-C3A	-3.30	103.15	106.73
12	k5	1203	CYC	C1B-C2B-C3B	-3.30	104.47	107.86
12	Z	201	CYC	C2D-C1D-ND	3.30	111.93	107.43
12	J2	201	CYC	C2D-C1D-ND	3.30	111.93	107.43
12	Z3	202	CYC	C2D-C1D-ND	3.30	111.93	107.43
12	F4	201	CYC	C4A-C3A-C2A	-3.30	102.73	106.48
12	F8	201	CYC	C4A-C3A-C2A	-3.30	102.73	106.48
12	I6	201	CYC	CMA-C3A-C4A	3.30	130.23	125.10
12	W8	202	CYC	C2D-C1D-ND	3.30	111.93	107.43
12	H4	201	CYC	C1D-C2D-C3D	-3.30	103.63	107.76
12	H8	201	CYC	C1D-C2D-C3D	-3.30	103.63	107.76
12	Z	201	CYC	C1A-C2A-C3A	-3.30	103.16	106.73
12	HA	201	CYC	C4A-C3A-C2A	-3.30	102.73	106.48
12	H9	201	CYC	C4A-C3A-C2A	-3.30	102.73	106.48
12	T5	201	CYC	CMA-C3A-C4A	3.30	130.22	125.10
12	DA	202	CYC	C4A-C3A-C2A	-3.30	102.73	106.48
12	R1	202	CYC	C2D-C1D-ND	3.30	111.93	107.43
12	V4	201	CYC	C1A-C2A-C3A	-3.30	103.16	106.73
12	V8	201	CYC	C1A-C2A-C3A	-3.30	103.16	106.73
12	L4	201	CYC	C2D-C1D-ND	3.30	111.92	107.43
12	L6	202	CYC	C2D-C1D-ND	3.30	111.92	107.43
12	L8	201	CYC	C2D-C1D-ND	3.30	111.92	107.43
12	H6	202	CYC	OC-C1C-C2C	-3.30	123.55	126.17
12	TA	302	CYC	C2A-C1A-NA	3.29	114.71	110.04
12	I2	201	CYC	CMA-C3A-C4A	3.29	130.22	125.10
12	J7	201	CYC	C1B-C2B-C3B	-3.29	104.48	107.86
12	F5	201	CYC	CMA-C3A-C4A	3.29	130.21	125.10
12	L3	201	CYC	C2D-C1D-ND	3.29	111.92	107.43
12	L5	201	CYC	C1B-C2B-C3B	-3.29	104.48	107.86
12	P1	202	CYC	C4A-C3A-C2A	-3.29	102.74	106.48
12	P3	202	CYC	C4A-C3A-C2A	-3.29	102.74	106.48
12	W4	202	CYC	C4A-C3A-C2A	-3.29	102.74	106.48
12	W8	202	CYC	C4A-C3A-C2A	-3.29	102.74	106.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	H3	201	CYC	C2D-C1D-ND	3.29	111.92	107.43
12	F4	201	CYC	C2D-C1D-ND	3.29	111.92	107.43
12	F8	201	CYC	C2D-C1D-ND	3.29	111.92	107.43
12	H1	202	CYC	C2D-C1D-ND	3.29	111.92	107.43
12	r7	201	CYC	C1B-C2B-C3B	-3.29	104.48	107.86
12	LA	201	CYC	C2D-C1D-ND	3.29	111.92	107.43
12	H4	202	CYC	C2D-C1D-ND	3.29	111.92	107.43
12	H8	202	CYC	C2D-C1D-ND	3.29	111.92	107.43
12	Z	201	CYC	C1B-C2B-C3B	-3.29	104.48	107.86
12	R5	201	CYC	CHB-C4A-NA	-3.29	117.86	124.95
12	B3	201	CYC	C2D-C1D-ND	3.29	111.91	107.43
12	B1	201	CYC	C2D-C1D-ND	3.29	111.91	107.43
12	A4	201	CYC	C1B-NB-C4B	-3.29	106.63	110.66
12	J3	201	CYC	C4A-C3A-C2A	-3.29	102.75	106.48
12	B6	201	CYC	C4A-C3A-C2A	-3.29	102.75	106.48
12	J1	201	CYC	C4A-C3A-C2A	-3.29	102.75	106.48
12	F1	202	CYC	C2A-C1A-NA	3.28	114.69	110.04
12	L2	202	CYC	OC-C1C-C2C	-3.28	123.56	126.17
12	L5	201	CYC	C1D-C2D-C3D	-3.28	103.65	107.76
12	T5	201	CYC	C2D-C1D-ND	3.28	111.91	107.43
12	T3	302	CYC	C2D-C1D-ND	3.28	111.90	107.43
12	T1	302	CYC	C2D-C1D-ND	3.28	111.90	107.43
12	Y8	201	CYC	C2D-C1D-ND	3.28	111.90	107.43
12	N5	201	CYC	C1B-C2B-C3B	-3.28	104.49	107.86
12	K7	201	CYC	C4D-C3D-C2D	-3.28	103.80	107.62
12	X7	201	CYC	C2D-C1D-ND	3.28	111.90	107.43
12	JA	201	CYC	C2A-C1A-NA	3.28	114.68	110.04
12	J9	201	CYC	C2A-C1A-NA	3.28	114.68	110.04
12	LA	201	CYC	C4A-C3A-C2A	-3.28	102.76	106.48
12	L9	201	CYC	C4A-C3A-C2A	-3.28	102.76	106.48
12	V3	202	CYC	OC-C1C-C2C	-3.28	123.57	126.17
12	V1	202	CYC	OC-C1C-C2C	-3.28	123.57	126.17
12	j7	201	CYC	C1B-C2B-C3B	-3.28	104.50	107.86
12	v7	201	CYC	C1D-C2D-C3D	-3.28	103.66	107.76
12	B3	201	CYC	C4A-C3A-C2A	-3.27	102.76	106.48
12	B1	201	CYC	C4A-C3A-C2A	-3.27	102.76	106.48
12	F9	301	CYC	C1D-C2D-C3D	-3.27	103.66	107.76
12	r7	201	CYC	C1A-C2A-C3A	-3.27	103.18	106.73
12	b7	201	CYC	CHB-C4A-NA	-3.27	117.88	124.95
12	R3	202	CYC	C2D-C1D-ND	3.27	111.89	107.43
12	A	201	CYC	C1B-C2B-C3B	-3.27	104.50	107.86
12	VA	202	CYC	C4A-C3A-C2A	-3.27	102.76	106.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	V9	202	CYC	C4A-C3A-C2A	-3.27	102.76	106.48
12	P1	202	CYC	C2A-C1A-NA	3.27	114.68	110.04
12	P3	202	CYC	C2A-C1A-NA	3.27	114.68	110.04
12	F4	201	CYC	C2A-C1A-NA	3.27	114.68	110.04
12	F8	201	CYC	C2A-C1A-NA	3.27	114.68	110.04
12	RA	202	CYC	C4A-C3A-C2A	-3.27	102.76	106.48
12	R9	202	CYC	C4A-C3A-C2A	-3.27	102.76	106.48
12	h7	201	CYC	CHB-C4A-NA	-3.27	117.89	124.95
12	X3	202	CYC	C2D-C1D-ND	3.27	111.89	107.43
12	F7	201	CYC	C2D-C1D-ND	3.27	111.89	107.43
12	X1	202	CYC	C2D-C1D-ND	3.27	111.89	107.43
12	XA	202	CYC	C4A-C3A-C2A	-3.27	102.77	106.48
12	H8	201	CYC	C2C-C1C-NC	3.27	111.01	108.29
12	X9	202	CYC	C4A-C3A-C2A	-3.27	102.77	106.48
12	L2	202	CYC	C2D-C1D-ND	3.27	111.89	107.43
12	e7	201	CYC	C4D-C3D-C2D	-3.27	103.82	107.62
12	Z3	202	CYC	C4A-C3A-C2A	-3.27	102.77	106.48
12	F5	201	CYC	C1B-C2B-C3B	-3.27	104.50	107.86
12	L9	201	CYC	C2D-C1D-ND	3.27	111.89	107.43
12	PA	202	CYC	C4A-C3A-C2A	-3.27	102.77	106.48
12	P9	202	CYC	C4A-C3A-C2A	-3.27	102.77	106.48
12	FA	301	CYC	C1D-C2D-C3D	-3.27	103.67	107.76
12	BA	202	CYC	C2D-C1D-ND	3.27	111.89	107.43
12	B9	202	CYC	C2D-C1D-ND	3.27	111.89	107.43
12	D9	202	CYC	C4A-C3A-C2A	-3.27	102.77	106.48
12	B3	201	CYC	OC-C1C-C2C	-3.26	123.58	126.17
12	X3	202	CYC	OC-C1C-C2C	-3.26	123.58	126.17
12	X1	202	CYC	OC-C1C-C2C	-3.26	123.58	126.17
12	U4	202	CYC	C2D-C1D-ND	3.26	111.88	107.43
12	R1	202	CYC	OC-C1C-C2C	-3.26	123.58	126.17
12	R3	202	CYC	OC-C1C-C2C	-3.26	123.58	126.17
12	k5	1203	CYC	C1A-C2A-C3A	-3.26	103.20	106.73
12	j5	1202	CYC	C2D-C1D-ND	3.26	111.88	107.43
12	H2	202	CYC	OC-C1C-C2C	-3.26	123.58	126.17
12	O5	201	CYC	C4D-C3D-C2D	-3.26	103.82	107.62
12	T3	302	CYC	C2A-C1A-NA	3.26	114.66	110.04
12	S4	201	CYC	C2A-C1A-NA	3.26	114.66	110.04
12	S8	201	CYC	C2A-C1A-NA	3.26	114.66	110.04
12	T1	302	CYC	C2A-C1A-NA	3.26	114.66	110.04
12	V7	201	CYC	C1B-C2B-C3B	-3.26	104.51	107.86
12	H4	202	CYC	C4A-C3A-C2A	-3.26	102.78	106.48
12	H8	202	CYC	C4A-C3A-C2A	-3.26	102.78	106.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	U7	201	CYC	C4D-C3D-C2D	-3.26	103.83	107.62
12	L5	201	CYC	CMA-C3A-C4A	3.26	130.16	125.10
12	PA	202	CYC	C2A-C1A-NA	3.26	114.66	110.04
12	B3	201	CYC	C2A-C1A-NA	3.26	114.66	110.04
12	B1	201	CYC	C2A-C1A-NA	3.26	114.66	110.04
12	P9	202	CYC	C2A-C1A-NA	3.26	114.66	110.04
12	X1	202	CYC	C2A-C1A-NA	3.26	114.66	110.04
12	L7	201	CYC	C2D-C1D-ND	3.26	111.87	107.43
12	J2	201	CYC	C4A-C3A-C2A	-3.26	102.78	106.48
12	O7	201	CYC	C4D-C3D-C2D	-3.26	103.83	107.62
12	X5	201	CYC	C1D-C2D-C3D	-3.26	103.69	107.76
12	D3	201	CYC	C2D-C1D-ND	3.25	111.87	107.43
12	D1	201	CYC	C2D-C1D-ND	3.25	111.87	107.43
12	SA	201	CYC	C1A-C2A-C3A	-3.25	103.21	106.73
12	S9	201	CYC	C1A-C2A-C3A	-3.25	103.21	106.73
12	B6	201	CYC	C2D-C1D-ND	3.25	111.87	107.43
12	b7	201	CYC	C2D-C1D-ND	3.25	111.87	107.43
12	D4	201	CYC	C2D-C1D-ND	3.25	111.87	107.43
12	D8	201	CYC	C2D-C1D-ND	3.25	111.87	107.43
12	D2	201	CYC	C4D-C3D-C2D	-3.25	103.84	107.62
12	D6	201	CYC	C4D-C3D-C2D	-3.25	103.84	107.62
12	k5	1204	CYC	C2D-C1D-ND	3.25	111.86	107.43
12	o7	201	CYC	C4D-C3D-C2D	-3.25	103.84	107.62
12	B4	202	CYC	C1D-C2D-C3D	-3.25	103.70	107.76
12	u7	201	CYC	C4D-C3D-C2D	-3.25	103.84	107.62
12	F6	202	CYC	C4A-C3A-C2A	-3.25	102.79	106.48
12	Z1	201	CYC	C4A-C3A-C2A	-3.25	102.79	106.48
12	J4	202	CYC	C2A-C1A-NA	3.25	114.64	110.04
12	J8	202	CYC	C2A-C1A-NA	3.25	114.64	110.04
12	Y7	201	CYC	C4D-C3D-C2D	-3.25	103.84	107.62
12	J6	201	CYC	C2A-C1A-NA	3.25	114.64	110.04
12	TA	302	CYC	C4A-C3A-C2A	-3.25	102.79	106.48
12	T9	302	CYC	C4A-C3A-C2A	-3.25	102.79	106.48
12	L9	201	CYC	C2A-C1A-NA	3.25	114.64	110.04
12	H4	201	CYC	C2C-C1C-NC	3.24	110.99	108.29
12	WA	201	CYC	C1A-C2A-C3A	-3.24	103.22	106.73
12	W9	201	CYC	C1A-C2A-C3A	-3.24	103.22	106.73
12	TA	302	CYC	C2D-C1D-ND	3.24	111.86	107.43
12	O4	202	CYC	C2D-C1D-ND	3.24	111.86	107.43
12	O8	202	CYC	C2D-C1D-ND	3.24	111.86	107.43
12	T9	302	CYC	C2D-C1D-ND	3.24	111.86	107.43
12	X3	202	CYC	C2A-C1A-NA	3.24	114.64	110.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	K6	201	CYC	CMC-C2C-C1C	-3.24	105.41	112.40
12	U8	202	CYC	C2D-C1D-ND	3.24	111.85	107.43
12	p7	201	CYC	C1D-C2D-C3D	-3.24	103.70	107.76
12	Q7	201	CYC	C4D-C3D-C2D	-3.24	103.85	107.62
12	R5	201	CYC	C1D-C2D-C3D	-3.24	103.70	107.76
12	D6	202	CYC	C4A-C3A-C2A	-3.24	102.80	106.48
12	H4	202	CYC	OC-C1C-C2C	-3.24	123.60	126.17
12	Y4	201	CYC	OC-C1C-C2C	-3.24	123.60	126.17
12	H8	202	CYC	OC-C1C-C2C	-3.24	123.60	126.17
12	Y8	201	CYC	OC-C1C-C2C	-3.24	123.60	126.17
12	X7	201	CYC	C1B-C2B-C3B	-3.24	104.53	107.86
12	K2	201	CYC	CMC-C2C-C1C	-3.24	105.43	112.40
12	f7	201	CYC	CMA-C3A-C4A	3.24	130.12	125.10
12	J4	202	CYC	C2D-C1D-ND	3.24	111.84	107.43
12	J8	202	CYC	C2D-C1D-ND	3.24	111.84	107.43
12	d7	201	CYC	C1B-C2B-C3B	-3.24	104.54	107.86
12	YA	201	CYC	CMC-C2C-C1C	-3.23	105.43	112.40
12	Y9	201	CYC	CMC-C2C-C1C	-3.23	105.43	112.40
12	U9	201	CYC	C1A-C2A-C3A	-3.23	103.23	106.73
12	D4	201	CYC	C4A-C3A-C2A	-3.23	102.81	106.48
12	J4	202	CYC	C4A-C3A-C2A	-3.23	102.81	106.48
12	D8	201	CYC	C4A-C3A-C2A	-3.23	102.81	106.48
12	J8	202	CYC	C4A-C3A-C2A	-3.23	102.81	106.48
12	F2	202	CYC	C2D-C1D-ND	3.23	111.84	107.43
12	Q5	201	CYC	C4D-C3D-C2D	-3.23	103.86	107.62
12	F9	303	CYC	C2A-C1A-NA	3.23	114.62	110.04
12	F9	302	CYC	C2A-C1A-NA	3.23	114.62	110.04
12	F6	202	CYC	C2D-C1D-ND	3.23	111.84	107.43
12	D2	202	CYC	C4A-C3A-C2A	-3.23	102.81	106.48
12	HA	201	CYC	C2D-C1D-ND	3.23	111.84	107.43
12	H9	201	CYC	C2D-C1D-ND	3.23	111.84	107.43
12	D3	201	CYC	C4A-C3A-C2A	-3.23	102.81	106.48
12	D1	201	CYC	C4A-C3A-C2A	-3.23	102.81	106.48
12	a9	901	CYC	C2C-C1C-NC	3.23	110.97	108.29
12	Z3	202	CYC	C2A-C1A-NA	3.23	114.62	110.04
12	L6	202	CYC	C2A-C1A-NA	3.23	114.61	110.04
12	F2	202	CYC	C2A-C1A-NA	3.23	114.61	110.04
12	M7	201	CYC	C4D-C3D-C2D	-3.23	103.86	107.62
12	H2	201	CYC	C1D-C2D-C3D	-3.23	103.72	107.76
12	H6	201	CYC	C1D-C2D-C3D	-3.23	103.72	107.76
12	F3	202	CYC	OC-C1C-C2C	-3.23	123.61	126.17
12	F1	202	CYC	OC-C1C-C2C	-3.23	123.61	126.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	ZA	201	CYC	C2D-C1D-ND	3.23	111.83	107.43
12	J2	201	CYC	C2A-C1A-NA	3.23	114.61	110.04
12	E7	201	CYC	C4D-C3D-C2D	-3.23	103.87	107.62
12	TA	301	CYC	C1D-C2D-C3D	-3.22	103.72	107.76
12	T9	301	CYC	C1D-C2D-C3D	-3.22	103.72	107.76
12	T4	201	CYC	CMC-C2C-C1C	-3.22	105.45	112.40
12	T8	201	CYC	CMC-C2C-C1C	-3.22	105.45	112.40
12	LA	201	CYC	C2A-C1A-NA	3.22	114.61	110.04
12	RA	202	CYC	C2D-C1D-ND	3.22	111.83	107.43
12	R9	202	CYC	C2D-C1D-ND	3.22	111.83	107.43
12	B8	202	CYC	C1D-C2D-C3D	-3.22	103.73	107.76
12	D2	201	CYC	C2D-C1D-ND	3.22	111.83	107.43
12	C3	201	CYC	C1A-C2A-C3A	-3.22	103.24	106.73
12	C1	201	CYC	C1A-C2A-C3A	-3.22	103.24	106.73
12	G7	201	CYC	C4D-C3D-C2D	-3.22	103.87	107.62
12	Z8	301	CYC	C2D-C1D-ND	3.22	111.82	107.43
12	Z9	201	CYC	C2D-C1D-ND	3.22	111.82	107.43
12	Z5	201	CYC	CMA-C3A-C4A	3.22	130.10	125.10
12	Z4	301	CYC	C4D-C3D-C2D	-3.22	103.87	107.62
12	J6	201	CYC	C4A-C3A-C2A	-3.22	102.82	106.48
12	L6	202	CYC	C4A-C3A-C2A	-3.22	102.82	106.48
12	BA	201	CYC	C1D-C2D-C3D	-3.22	103.73	107.76
12	H5	201	CYC	C1D-C2D-C3D	-3.22	103.73	107.76
12	d7	201	CYC	C1D-C2D-C3D	-3.22	103.73	107.76
12	B9	201	CYC	C1D-C2D-C3D	-3.22	103.73	107.76
12	B4	201	CYC	C2A-C1A-NA	3.22	114.60	110.04
12	Q4	201	CYC	C4A-C3A-C2A	-3.22	102.82	106.48
12	X9	201	CYC	C2D-C1D-ND	3.22	111.82	107.43
12	B8	201	CYC	C2D-C1D-ND	3.22	111.82	107.43
12	F2	201	CYC	C2D-C1D-ND	3.22	111.82	107.43
12	Q8	201	CYC	C2A-C1A-NA	3.22	114.60	110.04
12	F6	202	CYC	C2A-C1A-NA	3.22	114.60	110.04
12	W5	201	CYC	C4D-C3D-C2D	-3.22	103.88	107.62
12	q7	201	CYC	C4D-C3D-C2D	-3.22	103.88	107.62
12	Q4	201	CYC	C2D-C1D-ND	3.22	111.82	107.43
12	O4	202	CYC	C2A-C1A-NA	3.22	114.60	110.04
12	O8	202	CYC	C2A-C1A-NA	3.22	114.60	110.04
12	F2	202	CYC	C4A-C3A-C2A	-3.21	102.83	106.48
12	d5	201	CYC	CMA-C3A-C4A	3.21	130.09	125.10
12	B2	201	CYC	C2D-C1D-ND	3.21	111.81	107.43
12	C4	201	CYC	CMC-C2C-C1C	-3.21	105.47	112.40
12	C8	201	CYC	CMC-C2C-C1C	-3.21	105.47	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	F2	201	CYC	C1D-C2D-C3D	-3.21	103.74	107.76
12	L2	202	CYC	C4A-C3A-C2A	-3.21	102.83	106.48
12	g7	201	CYC	C4D-C3D-C2D	-3.21	103.88	107.62
12	AA	201	CYC	C1A-C2A-C3A	-3.21	103.25	106.73
12	A9	201	CYC	C1A-C2A-C3A	-3.21	103.25	106.73
12	U4	201	CYC	C2D-C1D-ND	3.21	111.81	107.43
12	U8	201	CYC	C2D-C1D-ND	3.21	111.81	107.43
12	UA	201	CYC	C1A-C2A-C3A	-3.21	103.25	106.73
12	K1	201	CYC	CMC-C2C-C1C	-3.21	105.48	112.40
12	B5	201	CYC	C1D-C2D-C3D	-3.21	103.75	107.76
12	H8	202	CYC	C2A-C1A-NA	3.21	114.59	110.04
12	V3	202	CYC	C2D-C1D-ND	3.21	111.81	107.43
12	V1	202	CYC	C2D-C1D-ND	3.21	111.81	107.43
12	R1	202	CYC	C2A-C1A-NA	3.21	114.59	110.04
12	Z1	201	CYC	C2A-C1A-NA	3.21	114.58	110.04
12	E2	201	CYC	C1A-C2A-C3A	-3.21	103.26	106.73
12	IA	201	CYC	CMC-C2C-C1C	-3.21	105.49	112.40
12	I9	201	CYC	CMC-C2C-C1C	-3.21	105.49	112.40
12	B8	201	CYC	C2A-C1A-NA	3.21	114.58	110.04
12	W8	202	CYC	C2A-C1A-NA	3.21	114.58	110.04
12	H7	201	CYC	C1D-C2D-C3D	-3.21	103.75	107.76
12	P1	201	CYC	C2D-C1D-ND	3.21	111.80	107.43
12	W4	202	CYC	C2A-C1A-NA	3.20	114.58	110.04
12	FA	301	CYC	C2D-C1D-ND	3.20	111.80	107.43
12	F5	201	CYC	C1D-C2D-C3D	-3.20	103.75	107.76
12	R3	202	CYC	C2A-C1A-NA	3.20	114.58	110.04
12	JA	201	CYC	C4A-C3A-C2A	-3.20	102.84	106.48
12	J9	201	CYC	C4A-C3A-C2A	-3.20	102.84	106.48
12	X3	201	CYC	C1D-C2D-C3D	-3.20	103.75	107.76
12	X1	201	CYC	C1D-C2D-C3D	-3.20	103.75	107.76
12	F4	202	CYC	C2C-C1C-NC	3.20	110.95	108.29
12	F8	202	CYC	C2C-C1C-NC	3.20	110.95	108.29
12	k7	201	CYC	C4D-C3D-C2D	-3.20	103.89	107.62
12	j7	201	CYC	C1D-C2D-C3D	-3.20	103.75	107.76
12	U3	201	CYC	C1A-C2A-C3A	-3.20	103.26	106.73
12	U1	201	CYC	C1A-C2A-C3A	-3.20	103.26	106.73
12	XA	201	CYC	C2D-C1D-ND	3.20	111.80	107.43
12	Y4	201	CYC	C4A-C3A-C2A	-3.20	102.84	106.48
12	Y8	201	CYC	C4A-C3A-C2A	-3.20	102.84	106.48
12	L2	201	CYC	C2D-C1D-ND	3.20	111.80	107.43
12	K3	201	CYC	CMC-C2C-C1C	-3.20	105.50	112.40
12	M5	201	CYC	C4D-C3D-C2D	-3.20	103.90	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	XA	202	CYC	C2A-C1A-NA	3.20	114.57	110.04
12	X3	202	CYC	C4A-C3A-C2A	-3.20	102.85	106.48
12	X1	202	CYC	C4A-C3A-C2A	-3.20	102.85	106.48
12	Z5	201	CYC	C1D-C2D-C3D	-3.20	103.76	107.76
12	B4	201	CYC	C2D-C1D-ND	3.20	111.79	107.43
12	I4	201	CYC	C1A-C2A-C3A	-3.20	103.27	106.73
12	I8	201	CYC	C1A-C2A-C3A	-3.20	103.27	106.73
12	Y5	201	CYC	C4D-C3D-C2D	-3.20	103.90	107.62
12	DA	201	CYC	C4D-C3D-C2D	-3.20	103.90	107.62
12	E5	201	CYC	C4D-C3D-C2D	-3.20	103.90	107.62
12	D9	201	CYC	C4D-C3D-C2D	-3.20	103.90	107.62
12	F9	301	CYC	C2D-C1D-ND	3.20	111.79	107.43
12	X8	201	CYC	CMC-C2C-C1C	-3.20	105.51	112.40
12	F9	302	CYC	OC-C1C-C2C	-3.20	123.63	126.17
12	Q8	201	CYC	C2D-C1D-ND	3.20	111.79	107.43
12	F6	201	CYC	C1D-C2D-C3D	-3.20	103.76	107.76
12	i7	201	CYC	C4D-C3D-C2D	-3.19	103.90	107.62
12	M8	301	CYC	C4D-C3D-C2D	-3.19	103.90	107.62
12	T9	302	CYC	OC-C1C-C2C	-3.19	123.63	126.17
12	b5	201	CYC	C1D-C2D-C3D	-3.19	103.76	107.76
12	H4	201	CYC	C2D-C1D-ND	3.19	111.79	107.43
12	H8	201	CYC	C2D-C1D-ND	3.19	111.79	107.43
12	BA	202	CYC	C2A-C1A-NA	3.19	114.57	110.04
12	B9	202	CYC	C2A-C1A-NA	3.19	114.57	110.04
12	C7	201	CYC	C4D-C3D-C2D	-3.19	103.90	107.62
12	J3	201	CYC	C2A-C1A-NA	3.19	114.56	110.04
12	H4	202	CYC	C2A-C1A-NA	3.19	114.56	110.04
12	ZA	202	CYC	C1D-C2D-C3D	-3.19	103.77	107.76
12	Z9	202	CYC	C1D-C2D-C3D	-3.19	103.77	107.76
12	V3	201	CYC	C2D-C1D-ND	3.19	111.78	107.43
12	V1	201	CYC	C2D-C1D-ND	3.19	111.78	107.43
12	C9	201	CYC	CMC-C2C-C1C	-3.19	105.52	112.40
12	PA	201	CYC	C2D-C1D-ND	3.19	111.78	107.43
12	P9	201	CYC	C2D-C1D-ND	3.19	111.78	107.43
12	j5	1201	CYC	C2D-C1D-ND	3.19	111.78	107.43
12	H6	202	CYC	C2D-C1D-ND	3.19	111.78	107.43
12	P5	201	CYC	C1D-C2D-C3D	-3.19	103.77	107.76
12	W3	201	CYC	C1A-C2A-C3A	-3.19	103.28	106.73
12	V3	201	CYC	C1D-C2D-C3D	-3.19	103.77	107.76
12	f5	201	CYC	C1D-C2D-C3D	-3.19	103.77	107.76
12	V1	201	CYC	C1D-C2D-C3D	-3.19	103.77	107.76
12	W7	201	CYC	C4D-C3D-C2D	-3.19	103.91	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	a7	201	CYC	C4D-C3D-C2D	-3.19	103.91	107.62
12	X3	201	CYC	C2D-C1D-ND	3.19	111.78	107.43
12	a5	201	CYC	C4D-C3D-C2D	-3.19	103.91	107.62
12	I7	201	CYC	C4D-C3D-C2D	-3.19	103.91	107.62
12	QA	201	CYC	C1A-C2A-C3A	-3.19	103.28	106.73
12	ZA	202	CYC	C2D-C1D-ND	3.19	111.78	107.43
12	Z9	202	CYC	C2D-C1D-ND	3.19	111.78	107.43
12	G4	201	CYC	CMC-C2C-C1C	-3.19	105.53	112.40
12	G8	201	CYC	CMC-C2C-C1C	-3.19	105.53	112.40
12	V5	201	CYC	C1D-C2D-C3D	-3.19	103.77	107.76
12	P4	201	CYC	CMC-C2C-C1C	-3.19	105.53	112.40
12	P8	201	CYC	CMC-C2C-C1C	-3.19	105.53	112.40
12	F1	202	CYC	C2D-C1D-ND	3.19	111.78	107.43
12	PA	201	CYC	C1D-C2D-C3D	-3.19	103.77	107.76
12	T7	201	CYC	C1D-C2D-C3D	-3.19	103.77	107.76
12	P9	201	CYC	C1D-C2D-C3D	-3.19	103.77	107.76
12	P3	201	CYC	C2D-C1D-ND	3.19	111.78	107.43
12	S4	202	CYC	C2D-C1D-ND	3.19	111.78	107.43
12	U5	201	CYC	CHB-C4A-C3A	3.19	133.06	124.87
12	Q9	201	CYC	C1A-C2A-C3A	-3.19	103.28	106.73
12	Y3	201	CYC	CMC-C2C-C1C	-3.18	105.54	112.40
12	Y1	201	CYC	CMC-C2C-C1C	-3.18	105.54	112.40
12	H9	202	CYC	C2C-C1C-NC	3.18	110.94	108.29
12	Q8	201	CYC	C4A-C3A-C2A	-3.18	102.86	106.48
12	KA	201	CYC	CMC-C2C-C1C	-3.18	105.54	112.40
12	K9	201	CYC	CMC-C2C-C1C	-3.18	105.54	112.40
12	W1	201	CYC	CMC-C2C-C1C	-3.18	105.54	112.40
12	B4	202	CYC	C2D-C1D-ND	3.18	111.77	107.43
12	L4	202	CYC	C2C-C1C-NC	3.18	110.94	108.29
12	S5	201	CYC	C4D-C3D-C2D	-3.18	103.92	107.62
12	R7	201	CYC	C1D-C2D-C3D	-3.18	103.78	107.76
12	c5	201	CYC	C4D-C3D-C2D	-3.18	103.92	107.62
12	B3	202	CYC	C1D-C2D-C3D	-3.18	103.78	107.76
12	L6	201	CYC	C1D-C2D-C3D	-3.18	103.78	107.76
12	X4	201	CYC	CMC-C2C-C1C	-3.18	105.54	112.40
12	X9	202	CYC	C2A-C1A-NA	3.18	114.55	110.04
12	A1	201	CYC	CMC-C2C-C1C	-3.18	105.55	112.40
12	A3	201	CYC	CMC-C2C-C1C	-3.18	105.55	112.40
12	C3	201	CYC	CMC-C2C-C1C	-3.18	105.55	112.40
12	C1	201	CYC	CMC-C2C-C1C	-3.18	105.55	112.40
12	VA	201	CYC	C2C-C1C-NC	3.18	110.93	108.29
12	V9	201	CYC	C2C-C1C-NC	3.18	110.93	108.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	J1	201	CYC	C2A-C1A-NA	3.18	114.55	110.04
12	R8	201	CYC	CMC-C2C-C1C	-3.18	105.55	112.40
12	J3	202	CYC	C2D-C1D-ND	3.18	111.77	107.43
12	aA	901	CYC	C2D-C1D-ND	3.18	111.77	107.43
12	B6	201	CYC	C2A-C1A-NA	3.18	114.54	110.04
12	W1	201	CYC	C1A-C2A-C3A	-3.18	103.29	106.73
12	K4	201	CYC	CMC-C2C-C1C	-3.18	105.55	112.40
12	K8	201	CYC	CMC-C2C-C1C	-3.18	105.55	112.40
12	M8	302	CYC	C2D-C1D-ND	3.18	111.76	107.43
12	e5	201	CYC	C4D-C3D-C2D	-3.18	103.92	107.62
12	Q4	201	CYC	C2A-C1A-NA	3.18	114.54	110.04
12	B1	202	CYC	C1D-C2D-C3D	-3.18	103.79	107.76
12	U4	201	CYC	C2C-C1C-NC	3.18	110.93	108.29
12	U8	201	CYC	C2C-C1C-NC	3.18	110.93	108.29
12	X1	201	CYC	C2D-C1D-ND	3.18	111.76	107.43
12	C6	201	CYC	CMC-C2C-C1C	-3.17	105.56	112.40
12	O1	201	CYC	C1A-C2A-C3A	-3.17	103.29	106.73
12	O3	201	CYC	C1A-C2A-C3A	-3.17	103.29	106.73
12	H2	202	CYC	C2D-C1D-ND	3.17	111.76	107.43
12	c7	201	CYC	C4D-C3D-C2D	-3.17	103.93	107.62
12	GA	201	CYC	CMC-C2C-C1C	-3.17	105.56	112.40
12	N5	201	CYC	C1D-C2D-C3D	-3.17	103.79	107.76
12	B2	201	CYC	C2A-C1A-NA	3.17	114.53	110.04
12	Q1	201	CYC	C1A-C2A-C3A	-3.17	103.30	106.73
12	Q3	201	CYC	C1A-C2A-C3A	-3.17	103.30	106.73
12	W3	201	CYC	CMC-C2C-C1C	-3.17	105.57	112.40
12	Z3	201	CYC	C1D-C2D-C3D	-3.17	103.79	107.76
12	Z1	202	CYC	C1D-C2D-C3D	-3.17	103.79	107.76
12	E6	201	CYC	C1A-C2A-C3A	-3.17	103.30	106.73
12	I4	201	CYC	CMC-C2C-C1C	-3.17	105.57	112.40
12	I8	201	CYC	CMC-C2C-C1C	-3.17	105.57	112.40
12	DA	202	CYC	C2A-C1A-NA	3.17	114.53	110.04
12	D9	202	CYC	C2A-C1A-NA	3.17	114.53	110.04
12	f7	201	CYC	C1D-C2D-C3D	-3.17	103.79	107.76
12	O5	201	CYC	CHB-C4A-C3A	3.17	133.01	124.87
12	CA	201	CYC	CMC-C2C-C1C	-3.17	105.57	112.40
12	R4	201	CYC	CMC-C2C-C1C	-3.17	105.57	112.40
12	d5	201	CYC	C1D-C2D-C3D	-3.17	103.80	107.76
12	X7	201	CYC	C1D-C2D-C3D	-3.17	103.80	107.76
12	C2	201	CYC	CMC-C2C-C1C	-3.17	105.58	112.40
12	U4	201	CYC	C1D-C2D-C3D	-3.17	103.80	107.76
12	U8	201	CYC	C1D-C2D-C3D	-3.17	103.80	107.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Z3	201	CYC	C2D-C1D-ND	3.17	111.75	107.43
12	T3	301	CYC	C2D-C1D-ND	3.17	111.75	107.43
12	Z1	202	CYC	C2D-C1D-ND	3.17	111.75	107.43
12	e7	201	CYC	CHB-C4A-C3A	3.17	133.01	124.87
12	T5	201	CYC	C1D-C2D-C3D	-3.17	103.80	107.76
12	T1	301	CYC	C2D-C1D-ND	3.17	111.75	107.43
12	Q1	201	CYC	CMC-C2C-C1C	-3.17	105.58	112.40
12	U3	201	CYC	CMC-C2C-C1C	-3.16	105.58	112.40
12	U1	201	CYC	CMC-C2C-C1C	-3.16	105.58	112.40
12	C5	201	CYC	C4D-C3D-C2D	-3.16	103.94	107.62
12	HA	202	CYC	C2C-C1C-NC	3.16	110.92	108.29
12	TA	302	CYC	OC-C1C-C2C	-3.16	123.66	126.17
12	H2	201	CYC	C2D-C1D-ND	3.16	111.75	107.43
12	H6	201	CYC	C2D-C1D-ND	3.16	111.75	107.43
12	q7	201	CYC	CHB-C4A-C3A	3.16	133.00	124.87
12	F6	201	CYC	C2D-C1D-ND	3.16	111.75	107.43
12	k5	1202	CYC	C1D-C2D-C3D	-3.16	103.80	107.76
12	G9	201	CYC	CMC-C2C-C1C	-3.16	105.59	112.40
12	E4	201	CYC	C1A-C2A-C3A	-3.16	103.31	106.73
12	E8	201	CYC	C1A-C2A-C3A	-3.16	103.31	106.73
12	VA	201	CYC	C1D-C2D-C3D	-3.16	103.80	107.76
12	V9	201	CYC	C1D-C2D-C3D	-3.16	103.80	107.76
12	s7	201	CYC	CHB-C4A-C3A	3.16	133.00	124.87
12	F9	303	CYC	OC-C1C-C2C	-3.16	123.66	126.17
12	L2	201	CYC	C1D-C2D-C3D	-3.16	103.81	107.76
12	LA	202	CYC	C2C-C1C-NC	3.16	110.92	108.29
12	L9	202	CYC	C2C-C1C-NC	3.16	110.92	108.29
12	VA	202	CYC	C2A-C1A-NA	3.16	114.52	110.04
12	V9	202	CYC	C2A-C1A-NA	3.16	114.52	110.04
12	P1	202	CYC	C2D-C1D-ND	3.16	111.74	107.43
12	P3	202	CYC	C2D-C1D-ND	3.16	111.74	107.43
12	K5	201	CYC	C4D-C3D-C2D	-3.16	103.94	107.62
12	H2	201	CYC	C2C-C1C-NC	3.16	110.92	108.29
12	S8	201	CYC	OC-C1C-C2C	-3.16	123.66	126.17
12	A6	201	CYC	C1A-C2A-C3A	-3.16	103.31	106.73
12	r7	201	CYC	C1D-C2D-C3D	-3.16	103.81	107.76
12	W5	201	CYC	CHB-C4A-C3A	3.16	132.98	124.87
12	H2	202	CYC	C2A-C1A-NA	3.16	114.52	110.04
12	e5	201	CYC	CHB-C4A-C3A	3.16	132.98	124.87
12	k7	201	CYC	CHB-C4A-C3A	3.16	132.98	124.87
12	Q3	201	CYC	CMC-C2C-C1C	-3.16	105.60	112.40
12	B7	201	CYC	C1D-C2D-C3D	-3.16	103.81	107.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	HA	201	CYC	C2A-C1A-NA	3.16	114.51	110.04
12	P4	201	CYC	C1A-C2A-C3A	-3.16	103.31	106.73
12	P8	201	CYC	C1A-C2A-C3A	-3.16	103.31	106.73
12	R8	201	CYC	C1A-C2A-C3A	-3.16	103.31	106.73
12	S1	201	CYC	CMC-C2C-C1C	-3.16	105.60	112.40
12	S3	201	CYC	CMC-C2C-C1C	-3.16	105.60	112.40
12	Q5	201	CYC	CHB-C4A-C3A	3.16	132.98	124.87
12	Z8	301	CYC	C4D-C3D-C2D	-3.16	103.95	107.62
12	OA	201	CYC	C1A-C2A-C3A	-3.16	103.31	106.73
12	j5	1201	CYC	C2C-C1C-NC	3.15	110.91	108.29
12	D6	201	CYC	C2D-C1D-ND	3.15	111.73	107.43
12	B8	202	CYC	C2D-C1D-ND	3.15	111.73	107.43
12	S7	201	CYC	C4D-C3D-C2D	-3.15	103.95	107.62
12	G6	201	CYC	CMC-C2C-C1C	-3.15	105.61	112.40
12	F3	201	CYC	C2D-C1D-ND	3.15	111.73	107.43
12	k5	1201	CYC	C2D-C1D-ND	3.15	111.73	107.43
12	F1	201	CYC	C2D-C1D-ND	3.15	111.73	107.43
12	k5	1203	CYC	C1D-C2D-C3D	-3.15	103.82	107.76
12	h7	201	CYC	C1D-C2D-C3D	-3.15	103.82	107.76
12	F3	202	CYC	C2D-C1D-ND	3.15	111.73	107.43
12	Z4	301	CYC	C2D-C1D-ND	3.15	111.73	107.43
12	H6	202	CYC	C2A-C1A-NA	3.15	114.50	110.04
12	C4	201	CYC	C1A-C2A-C3A	-3.15	103.32	106.73
12	C8	201	CYC	C1A-C2A-C3A	-3.15	103.32	106.73
12	L6	201	CYC	C2D-C1D-ND	3.15	111.73	107.43
12	L2	202	CYC	C2A-C1A-NA	3.15	114.50	110.04
12	D3	201	CYC	C2A-C1A-NA	3.15	114.50	110.04
12	D1	201	CYC	C2A-C1A-NA	3.15	114.50	110.04
12	J2	202	CYC	C1D-C2D-C3D	-3.15	103.82	107.76
12	D4	201	CYC	C2A-C1A-NA	3.15	114.50	110.04
12	D8	201	CYC	C2A-C1A-NA	3.15	114.50	110.04
12	M4	301	CYC	C4D-C3D-C2D	-3.15	103.96	107.62
12	I5	201	CYC	C4D-C3D-C2D	-3.15	103.96	107.62
12	EA	201	CYC	C1A-C2A-C3A	-3.15	103.32	106.73
12	A2	201	CYC	CMC-C2C-C1C	-3.15	105.62	112.40
12	D3	202	CYC	C1D-C2D-C3D	-3.15	103.82	107.76
12	D1	202	CYC	C1D-C2D-C3D	-3.15	103.82	107.76
12	a5	201	CYC	CHB-C4A-C3A	3.15	132.96	124.87
12	L3	201	CYC	C2A-C1A-NA	3.15	114.50	110.04
12	L1	201	CYC	C2A-C1A-NA	3.15	114.50	110.04
12	D7	201	CYC	C1D-C2D-C3D	-3.15	103.82	107.76
12	K8	201	CYC	C1A-C2A-C3A	-3.15	103.32	106.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	BA	201	CYC	C2D-C1D-ND	3.15	111.72	107.43
12	B9	201	CYC	C2D-C1D-ND	3.15	111.72	107.43
12	F3	201	CYC	C1D-C2D-C3D	-3.15	103.82	107.76
12	F1	201	CYC	C1D-C2D-C3D	-3.15	103.82	107.76
12	G1	201	CYC	C1A-C2A-C3A	-3.14	103.32	106.73
12	O4	201	CYC	C1D-C2D-C3D	-3.14	103.83	107.76
12	O8	201	CYC	C1D-C2D-C3D	-3.14	103.83	107.76
12	I5	201	CYC	CHB-C4A-C3A	3.14	132.94	124.87
12	F4	202	CYC	C1D-C2D-C3D	-3.14	103.83	107.76
12	J6	202	CYC	C1D-C2D-C3D	-3.14	103.83	107.76
12	A6	201	CYC	CMC-C2C-C1C	-3.14	105.63	112.40
12	UA	201	CYC	CMC-C2C-C1C	-3.14	105.63	112.40
12	U9	201	CYC	CMC-C2C-C1C	-3.14	105.63	112.40
12	u7	201	CYC	CHB-C4A-C3A	3.14	132.94	124.87
12	C5	201	CYC	CHB-C4A-C3A	3.14	132.94	124.87
12	H6	201	CYC	C2C-C1C-NC	3.14	110.90	108.29
12	R4	201	CYC	C1A-C2A-C3A	-3.14	103.33	106.73
12	G2	201	CYC	CMC-C2C-C1C	-3.14	105.63	112.40
12	T3	301	CYC	C1D-C2D-C3D	-3.14	103.83	107.76
12	F8	202	CYC	C1D-C2D-C3D	-3.14	103.83	107.76
12	T1	301	CYC	C1D-C2D-C3D	-3.14	103.83	107.76
12	WA	201	CYC	CMC-C2C-C1C	-3.14	105.64	112.40
12	W9	201	CYC	CMC-C2C-C1C	-3.14	105.64	112.40
12	m7	201	CYC	CHB-C4A-C3A	3.14	132.94	124.87
12	CA	201	CYC	C1A-C2A-C3A	-3.14	103.33	106.73
12	IA	201	CYC	C1A-C2A-C3A	-3.14	103.33	106.73
12	C9	201	CYC	C1A-C2A-C3A	-3.14	103.33	106.73
12	I9	201	CYC	C1A-C2A-C3A	-3.14	103.33	106.73
12	M5	201	CYC	CHB-C4A-C3A	3.14	132.93	124.87
12	G3	201	CYC	CMC-C2C-C1C	-3.14	105.64	112.40
12	V4	201	CYC	CMC-C2C-C1C	-3.14	105.64	112.40
12	V8	201	CYC	CMC-C2C-C1C	-3.14	105.64	112.40
12	G1	201	CYC	CMC-C2C-C1C	-3.14	105.64	112.40
12	I3	201	CYC	CMC-C2C-C1C	-3.14	105.64	112.40
12	I1	201	CYC	CMC-C2C-C1C	-3.14	105.64	112.40
12	S7	201	CYC	CHB-C4A-C3A	3.14	132.93	124.87
12	Y7	201	CYC	CHB-C4A-C3A	3.14	132.93	124.87
12	o7	201	CYC	CHB-C4A-C3A	3.14	132.93	124.87
12	O9	201	CYC	C1A-C2A-C3A	-3.14	103.33	106.73
12	A2	201	CYC	C1A-C2A-C3A	-3.14	103.33	106.73
12	k5	1201	CYC	C2C-C1C-NC	3.14	110.90	108.29
12	H9	201	CYC	C2A-C1A-NA	3.14	114.48	110.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	X9	201	CYC	C1D-C2D-C3D	-3.14	103.84	107.76
12	C2	201	CYC	C1A-C2A-C3A	-3.13	103.33	106.73
12	RA	202	CYC	C2A-C1A-NA	3.13	114.48	110.04
12	R9	202	CYC	C2A-C1A-NA	3.13	114.48	110.04
12	S4	201	CYC	OC-C1C-C2C	-3.13	123.68	126.17
12	SA	201	CYC	CMC-C2C-C1C	-3.13	105.65	112.40
12	S9	201	CYC	CMC-C2C-C1C	-3.13	105.65	112.40
12	O9	201	CYC	CMC-C2C-C1C	-3.13	105.65	112.40
12	DA	201	CYC	C2D-C1D-ND	3.13	111.70	107.43
12	B8	202	CYC	C2C-C1C-NC	3.13	110.89	108.29
12	N2	101	CYC	C1D-C2D-C3D	-3.13	103.84	107.76
12	F7	201	CYC	C1D-C2D-C3D	-3.13	103.84	107.76
12	M8	302	CYC	C1D-C2D-C3D	-3.13	103.84	107.76
12	B1	202	CYC	C2D-C1D-ND	3.13	111.70	107.43
12	R1	201	CYC	C1D-C2D-C3D	-3.13	103.84	107.76
12	R3	201	CYC	C1D-C2D-C3D	-3.13	103.84	107.76
12	j5	1202	CYC	C1D-C2D-C3D	-3.13	103.84	107.76
12	O1	201	CYC	CMC-C2C-C1C	-3.13	105.65	112.40
12	O3	201	CYC	CMC-C2C-C1C	-3.13	105.65	112.40
12	N4	201	CYC	CMC-C2C-C1C	-3.13	105.65	112.40
12	N8	201	CYC	CMC-C2C-C1C	-3.13	105.65	112.40
12	LA	202	CYC	C1D-C2D-C3D	-3.13	103.84	107.76
12	J7	201	CYC	C1D-C2D-C3D	-3.13	103.84	107.76
12	L9	202	CYC	C1D-C2D-C3D	-3.13	103.84	107.76
12	S5	201	CYC	CHB-C4A-C3A	3.13	132.91	124.87
12	K2	201	CYC	C1A-C2A-C3A	-3.13	103.34	106.73
12	I6	201	CYC	C1A-C2A-C3A	-3.13	103.34	106.73
12	F9	302	CYC	C2D-C1D-ND	3.13	111.70	107.43
12	D2	201	CYC	C1D-C2D-C3D	-3.13	103.84	107.76
12	C7	201	CYC	CHB-C4A-C3A	3.13	132.91	124.87
12	DA	201	CYC	C1D-C2D-C3D	-3.13	103.84	107.76
12	Y5	201	CYC	CHB-C4A-C3A	3.13	132.91	124.87
12	F8	201	CYC	OC-C1C-C2C	-3.13	123.69	126.17
12	QA	201	CYC	CMC-C2C-C1C	-3.13	105.66	112.40
12	A5	201	CYC	CHB-C4A-C3A	3.13	132.91	124.87
12	K6	201	CYC	C1A-C2A-C3A	-3.13	103.34	106.73
12	J3	202	CYC	C4D-C3D-C2D	-3.13	103.98	107.62
12	aA	901	CYC	C4D-C3D-C2D	-3.13	103.98	107.62
12	G5	201	CYC	CHB-C4A-C3A	3.13	132.90	124.87
12	E6	201	CYC	CMC-C2C-C1C	-3.13	105.66	112.40
12	E2	201	CYC	CMC-C2C-C1C	-3.13	105.66	112.40
12	D2	202	CYC	C2A-C1A-NA	3.13	114.47	110.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	L7	201	CYC	C1D-C2D-C3D	-3.13	103.85	107.76
12	M7	201	CYC	CHB-C4A-C3A	3.13	132.90	124.87
12	L3	202	CYC	C2D-C1D-ND	3.13	111.69	107.43
12	aA	902	CYC	C2D-C1D-ND	3.13	111.69	107.43
12	S1	201	CYC	C1A-C2A-C3A	-3.12	103.35	106.73
12	I7	201	CYC	CHB-C4A-C3A	3.12	132.90	124.87
12	F9	303	CYC	C2D-C1D-ND	3.12	111.69	107.43
12	V3	202	CYC	C2A-C1A-NA	3.12	114.47	110.04
12	U4	202	CYC	C2A-C1A-NA	3.12	114.47	110.04
12	V1	202	CYC	C2A-C1A-NA	3.12	114.47	110.04
12	G3	201	CYC	C1A-C2A-C3A	-3.12	103.35	106.73
12	AA	201	CYC	CMC-C2C-C1C	-3.12	105.67	112.40
12	A9	201	CYC	CMC-C2C-C1C	-3.12	105.67	112.40
12	S4	202	CYC	C1D-C2D-C3D	-3.12	103.85	107.76
12	J4	201	CYC	C1D-C2D-C3D	-3.12	103.85	107.76
12	J8	201	CYC	C1D-C2D-C3D	-3.12	103.85	107.76
12	O4	201	CYC	C2D-C1D-ND	3.12	111.69	107.43
12	O8	201	CYC	C2D-C1D-ND	3.12	111.69	107.43
12	K5	201	CYC	CHB-C4A-C3A	3.12	132.89	124.87
12	aA	902	CYC	C1D-C2D-C3D	-3.12	103.85	107.76
12	T3	301	CYC	C2C-C1C-NC	3.12	110.89	108.29
12	T1	301	CYC	C2C-C1C-NC	3.12	110.89	108.29
12	VA	201	CYC	C2D-C1D-ND	3.12	111.69	107.43
12	V9	201	CYC	C2D-C1D-ND	3.12	111.69	107.43
12	E3	201	CYC	C1A-C2A-C3A	-3.12	103.35	106.73
12	E1	201	CYC	C1A-C2A-C3A	-3.12	103.35	106.73
12	E7	201	CYC	CHB-C4A-C3A	3.12	132.89	124.87
12	i7	201	CYC	CHB-C4A-C3A	3.12	132.89	124.87
12	OA	201	CYC	CMC-C2C-C1C	-3.12	105.67	112.40
12	J5	201	CYC	C1D-C2D-C3D	-3.12	103.86	107.76
12	N6	101	CYC	C1D-C2D-C3D	-3.12	103.86	107.76
12	U7	201	CYC	CHB-C4A-C3A	3.12	132.88	124.87
12	N4	201	CYC	C1A-C2A-C3A	-3.12	103.35	106.73
12	D3	202	CYC	C2C-C1C-NC	3.12	110.88	108.29
12	c7	201	CYC	CHB-C4A-C3A	3.12	132.88	124.87
12	c5	201	CYC	CHB-C4A-C3A	3.12	132.88	124.87
12	ZA	202	CYC	C2C-C1C-NC	3.12	110.88	108.29
12	Z9	202	CYC	C2C-C1C-NC	3.12	110.88	108.29
12	D4	202	CYC	C4D-C3D-C2D	-3.12	103.99	107.62
12	D8	202	CYC	C4D-C3D-C2D	-3.12	103.99	107.62
12	E8	201	CYC	CMC-C2C-C1C	-3.12	105.69	112.40
12	Q9	201	CYC	CMC-C2C-C1C	-3.12	105.69	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	D3	202	CYC	C2D-C1D-ND	3.12	111.68	107.43
12	D1	202	CYC	C2D-C1D-ND	3.12	111.68	107.43
12	Q7	201	CYC	CHB-C4A-C3A	3.12	132.88	124.87
12	YA	201	CYC	C1A-C2A-C3A	-3.12	103.36	106.73
12	A1	201	CYC	C1A-C2A-C3A	-3.12	103.36	106.73
12	A3	201	CYC	C1A-C2A-C3A	-3.12	103.36	106.73
12	Y9	201	CYC	C1A-C2A-C3A	-3.12	103.36	106.73
12	XA	201	CYC	C1D-C2D-C3D	-3.12	103.86	107.76
12	N2	101	CYC	C2D-C1D-ND	3.12	111.68	107.43
12	RA	201	CYC	C1D-C2D-C3D	-3.12	103.86	107.76
12	R9	201	CYC	C1D-C2D-C3D	-3.12	103.86	107.76
12	RA	201	CYC	C2D-C1D-ND	3.11	111.68	107.43
12	R9	201	CYC	C2D-C1D-ND	3.11	111.68	107.43
12	A4	201	CYC	CMC-C2C-C1C	-3.11	105.69	112.40
12	K4	201	CYC	C1A-C2A-C3A	-3.11	103.36	106.73
12	C6	201	CYC	C1A-C2A-C3A	-3.11	103.36	106.73
12	RA	201	CYC	C4D-C3D-C2D	-3.11	104.00	107.62
12	R9	201	CYC	C4D-C3D-C2D	-3.11	104.00	107.62
12	P7	201	CYC	C1D-C2D-C3D	-3.11	103.86	107.76
12	D9	201	CYC	C2D-C1D-ND	3.11	111.68	107.43
12	M8	302	CYC	C2C-C1C-NC	3.11	110.88	108.29
12	E9	201	CYC	C1A-C2A-C3A	-3.11	103.36	106.73
12	D3	202	CYC	C4D-C3D-C2D	-3.11	104.00	107.62
12	D1	202	CYC	C4D-C3D-C2D	-3.11	104.00	107.62
12	W4	201	CYC	C4D-C3D-C2D	-3.11	104.00	107.62
12	W8	201	CYC	C4D-C3D-C2D	-3.11	104.00	107.62
12	B3	202	CYC	C2D-C1D-ND	3.11	111.67	107.43
12	Y4	201	CYC	C2A-C1A-NA	3.11	114.45	110.04
12	Y8	201	CYC	C2A-C1A-NA	3.11	114.45	110.04
12	JA	202	CYC	C2C-C1C-NC	3.11	110.88	108.29
12	D4	202	CYC	C2C-C1C-NC	3.11	110.88	108.29
12	D8	202	CYC	C2C-C1C-NC	3.11	110.88	108.29
12	J9	202	CYC	C2C-C1C-NC	3.11	110.88	108.29
12	U8	202	CYC	C2A-C1A-NA	3.11	114.45	110.04
12	L3	202	CYC	C1D-C2D-C3D	-3.11	103.87	107.76
12	D5	201	CYC	C1D-C2D-C3D	-3.11	103.87	107.76
12	A8	201	CYC	CMC-C2C-C1C	-3.11	105.70	112.40
12	F4	202	CYC	C2D-C1D-ND	3.11	111.67	107.43
12	F8	202	CYC	C2D-C1D-ND	3.11	111.67	107.43
12	A4	201	CYC	C1A-C2A-C3A	-3.11	103.36	106.73
12	A8	201	CYC	C1A-C2A-C3A	-3.11	103.36	106.73
12	ZA	201	CYC	C2A-C1A-NA	3.11	114.44	110.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	f7	201	CYC	C2A-C1A-NA	3.11	114.44	110.04
12	L8	201	CYC	C2A-C1A-NA	3.11	114.44	110.04
12	Z9	201	CYC	C2A-C1A-NA	3.11	114.44	110.04
12	I6	201	CYC	CMC-C2C-C1C	-3.11	105.70	112.40
12	b7	201	CYC	C1D-C2D-C3D	-3.11	103.87	107.76
12	H9	202	CYC	C1D-C2D-C3D	-3.11	103.87	107.76
12	S3	201	CYC	C1A-C2A-C3A	-3.11	103.36	106.73
12	H1	202	CYC	C2A-C1A-NA	3.11	114.44	110.04
12	E4	201	CYC	CMC-C2C-C1C	-3.11	105.71	112.40
12	H3	202	CYC	C2D-C1D-ND	3.11	111.67	107.43
12	M8	301	CYC	C2C-C1C-NC	3.11	110.87	108.29
12	D9	201	CYC	C1D-C2D-C3D	-3.11	103.87	107.76
12	P9	201	CYC	C2C-C1C-NC	3.11	110.87	108.29
12	PA	201	CYC	C2C-C1C-NC	3.10	110.87	108.29
12	J3	202	CYC	C1D-C2D-C3D	-3.10	103.88	107.76
12	aA	901	CYC	C1D-C2D-C3D	-3.10	103.88	107.76
12	K7	201	CYC	CHB-C4A-C3A	3.10	132.84	124.87
12	LA	202	CYC	C2D-C1D-ND	3.10	111.66	107.43
12	L9	202	CYC	C2D-C1D-ND	3.10	111.66	107.43
12	F4	201	CYC	OC-C1C-C2C	-3.10	123.71	126.17
12	J6	202	CYC	C2D-C1D-ND	3.10	111.66	107.43
12	GA	201	CYC	C1A-C2A-C3A	-3.10	103.37	106.73
12	G9	201	CYC	C1A-C2A-C3A	-3.10	103.37	106.73
12	H3	201	CYC	C2A-C1A-NA	3.10	114.43	110.04
12	N6	101	CYC	C2D-C1D-ND	3.10	111.66	107.43
12	J4	201	CYC	C2C-C1C-NC	3.10	110.87	108.29
12	E3	201	CYC	CMC-C2C-C1C	-3.10	105.72	112.40
12	E1	201	CYC	CMC-C2C-C1C	-3.10	105.72	112.40
12	Z	201	CYC	C1D-C2D-C3D	-3.10	103.88	107.76
12	H3	202	CYC	C1D-C2D-C3D	-3.10	103.88	107.76
12	A7	201	CYC	CHB-C4A-C3A	3.10	132.83	124.87
12	E5	201	CYC	CHB-C4A-C3A	3.10	132.83	124.87
12	m7	201	CYC	C4D-C3D-C2D	-3.10	104.02	107.62
12	k5	1204	CYC	C1D-C2D-C3D	-3.10	103.89	107.76
12	X4	201	CYC	C1A-C2A-C3A	-3.10	103.38	106.73
12	X8	201	CYC	C1A-C2A-C3A	-3.10	103.38	106.73
12	G7	201	CYC	CHB-C4A-C3A	3.09	132.82	124.87
12	R1	201	CYC	C2D-C1D-ND	3.09	111.65	107.43
12	R3	201	CYC	C2D-C1D-ND	3.09	111.65	107.43
12	I1	201	CYC	C1A-C2A-C3A	-3.09	103.38	106.73
12	O7	201	CYC	CHB-C4A-C3A	3.09	132.82	124.87
12	W7	201	CYC	CHB-C4A-C3A	3.09	132.82	124.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	A	201	CYC	C1D-C2D-C3D	-3.09	103.89	107.76
12	HA	202	CYC	C1D-C2D-C3D	-3.09	103.89	107.76
12	I2	201	CYC	CMC-C2C-C1C	-3.09	105.74	112.40
12	Z8	301	CYC	C1D-C2D-C3D	-3.09	103.89	107.76
12	W4	201	CYC	C2D-C1D-ND	3.09	111.65	107.43
12	W8	201	CYC	C2D-C1D-ND	3.09	111.65	107.43
12	J4	201	CYC	C2D-C1D-ND	3.09	111.64	107.43
12	J8	201	CYC	C2D-C1D-ND	3.09	111.64	107.43
12	H1	201	CYC	C2D-C1D-ND	3.09	111.64	107.43
12	JA	202	CYC	C1D-C2D-C3D	-3.09	103.89	107.76
12	J9	202	CYC	C1D-C2D-C3D	-3.09	103.89	107.76
12	J2	202	CYC	C2D-C1D-ND	3.09	111.64	107.43
12	L4	202	CYC	C4D-C3D-C2D	-3.09	104.03	107.62
12	k5	1202	CYC	C2A-C1A-NA	3.09	114.42	110.04
12	J9	202	CYC	C2D-C1D-ND	3.09	111.64	107.43
12	DA	201	CYC	CHA-C4D-C3D	-3.09	120.58	127.22
12	D9	201	CYC	CHA-C4D-C3D	-3.09	120.58	127.22
12	S4	202	CYC	C2C-C1C-NC	3.09	110.86	108.29
12	LA	202	CYC	C4D-C3D-C2D	-3.09	104.03	107.62
12	L9	202	CYC	C4D-C3D-C2D	-3.09	104.03	107.62
12	D6	201	CYC	C1D-C2D-C3D	-3.09	103.90	107.76
12	G6	201	CYC	C1A-C2A-C3A	-3.08	103.39	106.73
12	D4	202	CYC	C2D-C1D-ND	3.08	111.64	107.43
12	D8	202	CYC	C2D-C1D-ND	3.08	111.64	107.43
12	M8	301	CYC	C2D-C1D-ND	3.08	111.64	107.43
12	H1	201	CYC	C1D-C2D-C3D	-3.08	103.90	107.76
12	L4	201	CYC	C2A-C1A-NA	3.08	114.41	110.04
12	HA	202	CYC	C4D-C3D-C2D	-3.08	104.03	107.62
12	T3	301	CYC	C4D-C3D-C2D	-3.08	104.03	107.62
12	D1	202	CYC	C2C-C1C-NC	3.08	110.85	108.29
12	s7	201	CYC	C4D-C3D-C2D	-3.08	104.03	107.62
12	JA	202	CYC	C2D-C1D-ND	3.08	111.63	107.43
12	G2	201	CYC	C1A-C2A-C3A	-3.08	103.39	106.73
12	I2	201	CYC	C1A-C2A-C3A	-3.08	103.39	106.73
12	T1	301	CYC	C4D-C3D-C2D	-3.08	104.04	107.62
12	M4	301	CYC	C2D-C1D-ND	3.08	111.63	107.43
12	H9	202	CYC	C2D-C1D-ND	3.08	111.63	107.43
12	a7	201	CYC	CHB-C4A-C3A	3.08	132.78	124.87
12	L3	202	CYC	C4D-C3D-C2D	-3.08	104.04	107.62
12	N8	201	CYC	C1A-C2A-C3A	-3.07	103.40	106.73
12	EA	201	CYC	C1B-C2B-C3B	-3.07	104.70	107.86
12	V7	201	CYC	C1D-C2D-C3D	-3.07	103.91	107.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	D6	202	CYC	C2A-C1A-NA	3.07	114.39	110.04
12	Y3	201	CYC	C1A-C2A-C3A	-3.07	103.40	106.73
12	Y1	201	CYC	C1A-C2A-C3A	-3.07	103.40	106.73
12	L4	202	CYC	C2D-C1D-ND	3.07	111.62	107.43
12	Z3	201	CYC	C4D-C3D-C2D	-3.07	104.05	107.62
12	a9	901	CYC	C4D-C3D-C2D	-3.07	104.05	107.62
12	Z1	202	CYC	C4D-C3D-C2D	-3.07	104.05	107.62
12	J8	201	CYC	C2C-C1C-NC	3.07	110.84	108.29
12	T5	201	CYC	C2A-C1A-NA	3.07	114.39	110.04
12	a9	901	CYC	C2D-C1D-ND	3.07	111.62	107.43
12	L2	201	CYC	C4D-C3D-C2D	-3.07	104.05	107.62
12	TA	301	CYC	C2C-C1C-NC	3.07	110.84	108.29
12	W4	201	CYC	C2C-C1C-NC	3.07	110.84	108.29
12	W8	201	CYC	C2C-C1C-NC	3.07	110.84	108.29
12	T9	301	CYC	C2C-C1C-NC	3.07	110.84	108.29
12	R4	201	CYC	C1B-C2B-C3B	-3.07	104.71	107.86
12	R8	201	CYC	C1B-C2B-C3B	-3.07	104.71	107.86
12	d7	201	CYC	C2A-C1A-NA	3.07	114.39	110.04
12	KA	201	CYC	C1A-C2A-C3A	-3.07	103.41	106.73
12	K9	201	CYC	C1A-C2A-C3A	-3.07	103.41	106.73
12	W4	201	CYC	C1D-C2D-C3D	-3.07	103.92	107.76
12	W8	201	CYC	C1D-C2D-C3D	-3.07	103.92	107.76
12	HA	202	CYC	C2D-C1D-ND	3.07	111.61	107.43
12	B7	201	CYC	C2A-C1A-NA	3.07	114.39	110.04
12	XA	201	CYC	C4D-C3D-C2D	-3.06	104.05	107.62
12	U4	201	CYC	C4D-C3D-C2D	-3.06	104.05	107.62
12	U8	201	CYC	C4D-C3D-C2D	-3.06	104.05	107.62
12	X9	201	CYC	C4D-C3D-C2D	-3.06	104.05	107.62
12	F2	201	CYC	C4D-C3D-C2D	-3.06	104.05	107.62
12	I3	201	CYC	C1A-C2A-C3A	-3.06	103.41	106.73
12	D9	201	CYC	C2C-C1C-NC	3.06	110.84	108.29
12	R1	201	CYC	C4D-C3D-C2D	-3.06	104.06	107.62
12	R3	201	CYC	C4D-C3D-C2D	-3.06	104.06	107.62
12	N7	201	CYC	C1D-C2D-C3D	-3.06	103.93	107.76
12	J4	201	CYC	C4D-C3D-C2D	-3.06	104.06	107.62
12	J8	201	CYC	C4D-C3D-C2D	-3.06	104.06	107.62
12	g7	201	CYC	CHB-C4A-C3A	3.06	132.74	124.87
12	aA	902	CYC	C4D-C3D-C2D	-3.06	104.06	107.62
12	TA	301	CYC	C2D-C1D-ND	3.06	111.60	107.43
12	T9	301	CYC	C2D-C1D-ND	3.06	111.60	107.43
12	N2	101	CYC	C4D-C3D-C2D	-3.06	104.06	107.62
12	D3	202	CYC	CHA-C4D-C3D	-3.06	120.64	127.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	D1	202	CYC	CHA-C4D-C3D	-3.06	120.64	127.22
12	RA	201	CYC	CHA-C4D-C3D	-3.06	120.65	127.22
12	R9	201	CYC	CHA-C4D-C3D	-3.06	120.65	127.22
12	ZA	202	CYC	C4D-C3D-C2D	-3.06	104.06	107.62
12	Z9	202	CYC	C4D-C3D-C2D	-3.06	104.06	107.62
12	EA	201	CYC	CMC-C2C-C1C	-3.06	105.81	112.40
12	E9	201	CYC	CMC-C2C-C1C	-3.06	105.81	112.40
12	M4	301	CYC	C1D-C2D-C3D	-3.06	103.94	107.76
12	H3	202	CYC	C4D-C3D-C2D	-3.06	104.06	107.62
12	D4	202	CYC	C1D-C2D-C3D	-3.06	103.94	107.76
12	D8	202	CYC	C1D-C2D-C3D	-3.06	103.94	107.76
12	H3	202	CYC	C2C-C1C-NC	3.06	110.83	108.29
12	D2	201	CYC	CHA-C4D-C3D	-3.05	120.65	127.22
12	D6	201	CYC	CHA-C4D-C3D	-3.05	120.65	127.22
12	G4	201	CYC	C1A-C2A-C3A	-3.05	103.43	106.73
12	G8	201	CYC	C1A-C2A-C3A	-3.05	103.43	106.73
12	F8	202	CYC	C4D-C3D-C2D	-3.05	104.07	107.62
12	B4	202	CYC	C2C-C1C-NC	3.05	110.83	108.29
12	P5	201	CYC	C2A-C1A-NA	3.05	114.36	110.04
12	X7	201	CYC	C2A-C1A-NA	3.05	114.36	110.04
12	F4	202	CYC	C4D-C3D-C2D	-3.05	104.07	107.62
12	J4	201	CYC	CHA-C4D-C3D	-3.05	120.67	127.22
12	J8	201	CYC	CHA-C4D-C3D	-3.05	120.67	127.22
12	D6	201	CYC	C2C-C1C-NC	3.05	110.82	108.29
12	VA	201	CYC	C4D-C3D-C2D	-3.05	104.07	107.62
12	H9	202	CYC	C4D-C3D-C2D	-3.05	104.07	107.62
12	V9	201	CYC	C4D-C3D-C2D	-3.05	104.07	107.62
12	M4	301	CYC	C2C-C1C-NC	3.05	110.82	108.29
12	L4	202	CYC	C1D-C2D-C3D	-3.05	103.95	107.76
12	B8	202	CYC	C4D-C3D-C2D	-3.05	104.08	107.62
12	H7	201	CYC	C2A-C1A-NA	3.04	114.36	110.04
12	E9	201	CYC	C1B-C2B-C3B	-3.04	104.73	107.86
12	T4	201	CYC	C1A-C2A-C3A	-3.04	103.43	106.73
12	T8	201	CYC	C1A-C2A-C3A	-3.04	103.43	106.73
12	a9	901	CYC	C1D-C2D-C3D	-3.04	103.95	107.76
12	j5	1202	CYC	C2A-C1A-NA	3.04	114.35	110.04
12	HA	202	CYC	CHA-C4D-C3D	-3.04	120.69	127.22
12	k5	1204	CYC	C2A-C1A-NA	3.04	114.35	110.04
12	L6	201	CYC	C4D-C3D-C2D	-3.04	104.08	107.62
12	j7	201	CYC	C2A-C1A-NA	3.04	114.34	110.04
12	H1	201	CYC	C4D-C3D-C2D	-3.04	104.09	107.62
12	L3	202	CYC	C2C-C1C-NC	3.03	110.81	108.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	aA	902	CYC	C2C-C1C-NC	3.03	110.81	108.29
12	K2	201	CYC	C1B-C2B-C3B	-3.03	104.74	107.86
12	F3	201	CYC	C4D-C3D-C2D	-3.03	104.09	107.62
12	F1	201	CYC	C4D-C3D-C2D	-3.03	104.09	107.62
12	H9	202	CYC	CHA-C4D-C3D	-3.03	120.70	127.22
12	F5	201	CYC	C2A-C1A-NA	3.03	114.34	110.04
12	F3	201	CYC	C2C-C1C-NC	3.03	110.81	108.29
12	F1	201	CYC	C2C-C1C-NC	3.03	110.81	108.29
12	J3	202	CYC	CHA-C4D-C3D	-3.03	120.71	127.22
12	aA	901	CYC	CHA-C4D-C3D	-3.03	120.71	127.22
12	N6	101	CYC	C4D-C3D-C2D	-3.03	104.09	107.62
12	F6	201	CYC	C4D-C3D-C2D	-3.03	104.09	107.62
12	J9	202	CYC	C4D-C3D-C2D	-3.03	104.09	107.62
12	B3	202	CYC	C2C-C1C-NC	3.03	110.81	108.29
12	B1	202	CYC	C2C-C1C-NC	3.03	110.81	108.29
12	N5	201	CYC	C2A-C1A-NA	3.03	114.33	110.04
12	K3	201	CYC	C1A-C2A-C3A	-3.03	103.45	106.73
12	S4	202	CYC	C4D-C3D-C2D	-3.03	104.10	107.62
12	R5	201	CYC	C2A-C1A-NA	3.02	114.33	110.04
12	J6	202	CYC	C2C-C1C-NC	3.02	110.80	108.29
12	F3	201	CYC	CHA-C4D-C3D	-3.02	120.72	127.22
12	F1	201	CYC	CHA-C4D-C3D	-3.02	120.72	127.22
12	N2	101	CYC	CHA-C4D-C3D	-3.02	120.72	127.22
12	DA	201	CYC	C2C-C1C-NC	3.02	110.80	108.29
12	V3	201	CYC	C4D-C3D-C2D	-3.02	104.10	107.62
12	V1	201	CYC	C4D-C3D-C2D	-3.02	104.10	107.62
12	L5	201	CYC	C2A-C1A-NA	3.02	114.32	110.04
12	O1	201	CYC	C1B-C2B-C3B	-3.02	104.76	107.86
12	O3	201	CYC	C1B-C2B-C3B	-3.02	104.76	107.86
12	G1	201	CYC	C1B-C2B-C3B	-3.02	104.76	107.86
12	Z8	301	CYC	CHA-C4D-C3D	-3.02	120.73	127.22
12	D2	201	CYC	C2C-C1C-NC	3.02	110.80	108.29
12	b7	201	CYC	C2A-C1A-NA	3.02	114.32	110.04
12	M8	302	CYC	C4D-C3D-C2D	-3.02	104.11	107.62
12	X5	201	CYC	C2A-C1A-NA	3.02	114.32	110.04
12	b5	201	CYC	C2A-C1A-NA	3.02	114.31	110.04
12	R7	201	CYC	C2A-C1A-NA	3.02	114.31	110.04
12	C6	201	CYC	C1B-C2B-C3B	-3.02	104.76	107.86
12	B1	202	CYC	C4D-C3D-C2D	-3.02	104.11	107.62
12	A	201	CYC	C2A-C1A-NA	3.02	114.31	110.04
12	K1	201	CYC	C1A-C2A-C3A	-3.02	103.46	106.73
12	G9	201	CYC	CBC-CAC-C3C	-3.01	107.02	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	GA	201	CYC	CBC-CAC-C3C	-3.01	107.02	113.41
12	PA	201	CYC	C4D-C3D-C2D	-3.01	104.11	107.62
12	P9	201	CYC	C4D-C3D-C2D	-3.01	104.11	107.62
12	F7	201	CYC	C2A-C1A-NA	3.01	114.31	110.04
12	JA	202	CYC	C4D-C3D-C2D	-3.01	104.12	107.62
12	Z4	301	CYC	C1D-C2D-C3D	-3.01	103.99	107.76
12	M4	301	CYC	CHA-C4D-C3D	-3.01	120.75	127.22
12	Z3	201	CYC	C2C-C1C-NC	3.01	110.79	108.29
12	Z1	202	CYC	C2C-C1C-NC	3.01	110.79	108.29
12	F2	201	CYC	CHA-C4D-C3D	-3.01	120.75	127.22
12	LA	202	CYC	CHA-C4D-C3D	-3.01	120.76	127.22
12	L9	202	CYC	CHA-C4D-C3D	-3.01	120.76	127.22
12	E6	201	CYC	CBC-CAC-C3C	-3.01	107.03	113.41
12	E2	201	CYC	CBC-CAC-C3C	-3.01	107.03	113.41
12	E2	201	CYC	C1B-C2B-C3B	-3.01	104.77	107.86
12	C2	201	CYC	C1B-C2B-C3B	-3.00	104.77	107.86
12	ZA	202	CYC	CHA-C4D-C3D	-3.00	120.77	127.22
12	Z9	202	CYC	CHA-C4D-C3D	-3.00	120.77	127.22
12	B8	202	CYC	CHA-C4D-C3D	-3.00	120.77	127.22
12	Y9	201	CYC	C1B-C2B-C3B	-3.00	104.78	107.86
12	A9	201	CYC	CBC-CAC-C3C	-3.00	107.05	113.41
12	F6	201	CYC	C2C-C1C-NC	3.00	110.78	108.29
12	H1	201	CYC	C2C-C1C-NC	3.00	110.78	108.29
12	K6	201	CYC	C1B-C2B-C3B	-3.00	104.78	107.86
12	L7	201	CYC	C2A-C1A-NA	3.00	114.29	110.04
12	U4	201	CYC	CHA-C4D-C3D	-3.00	120.77	127.22
12	Z4	301	CYC	CHA-C4D-C3D	-3.00	120.77	127.22
12	U8	201	CYC	CHA-C4D-C3D	-3.00	120.77	127.22
12	A2	201	CYC	C1B-C2B-C3B	-3.00	104.78	107.86
12	M8	301	CYC	C1D-C2D-C3D	-3.00	104.01	107.76
12	D4	202	CYC	CHA-C4D-C3D	-3.00	120.78	127.22
12	D8	202	CYC	CHA-C4D-C3D	-3.00	120.78	127.22
12	AA	201	CYC	CBC-CAC-C3C	-3.00	107.06	113.41
12	B4	202	CYC	C4D-C3D-C2D	-3.00	104.13	107.62
12	J2	202	CYC	C2C-C1C-NC	2.99	110.78	108.29
12	p7	201	CYC	C2A-C1A-NA	2.99	114.28	110.04
12	M8	301	CYC	CHA-C4D-C3D	-2.99	120.78	127.22
12	V7	201	CYC	C2A-C1A-NA	2.99	114.28	110.04
12	G3	201	CYC	C1B-C2B-C3B	-2.99	104.78	107.86
12	I4	201	CYC	CBC-CAC-C3C	-2.99	107.06	113.41
12	I8	201	CYC	CBC-CAC-C3C	-2.99	107.06	113.41
12	P8	201	CYC	C1B-C2B-C3B	-2.99	104.79	107.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B1	202	CYC	CHA-C4D-C3D	-2.99	120.79	127.22
12	F4	202	CYC	CHA-C4D-C3D	-2.99	120.79	127.22
12	F8	202	CYC	CHA-C4D-C3D	-2.99	120.79	127.22
12	B3	202	CYC	C4D-C3D-C2D	-2.99	104.14	107.62
12	N6	101	CYC	CHA-C4D-C3D	-2.99	120.79	127.22
12	B3	202	CYC	CHA-C4D-C3D	-2.99	120.79	127.22
12	V5	201	CYC	C2A-C1A-NA	2.99	114.28	110.04
12	h7	201	CYC	C2A-C1A-NA	2.99	114.28	110.04
12	JA	202	CYC	CHA-C4D-C3D	-2.99	120.79	127.22
12	H2	201	CYC	CHA-C4D-C3D	-2.99	120.79	127.22
12	Z8	301	CYC	C2C-C1C-NC	2.99	110.77	108.29
12	Z	201	CYC	C2A-C1A-NA	2.99	114.28	110.04
12	P4	201	CYC	C1B-C2B-C3B	-2.99	104.79	107.86
12	E6	201	CYC	C1B-C2B-C3B	-2.99	104.79	107.86
12	L4	202	CYC	CHA-C4D-C3D	-2.99	120.80	127.22
12	v7	201	CYC	C2A-C1A-NA	2.99	114.27	110.04
12	J2	202	CYC	CHA-C4D-C3D	-2.99	120.80	127.22
12	J6	202	CYC	CHA-C4D-C3D	-2.99	120.80	127.22
12	J3	202	CYC	C2C-C1C-NC	2.99	110.77	108.29
12	aA	901	CYC	C2C-C1C-NC	2.99	110.77	108.29
12	CA	201	CYC	C1B-C2B-C3B	-2.99	104.79	107.86
12	C9	201	CYC	C1B-C2B-C3B	-2.99	104.79	107.86
12	Q1	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	Q3	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	a9	901	CYC	CHA-C4D-C3D	-2.98	120.81	127.22
12	J5	201	CYC	C2A-C1A-NA	2.98	114.27	110.04
12	K3	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	K1	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	J9	202	CYC	CHA-C4D-C3D	-2.98	120.81	127.22
12	GA	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	S1	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	S3	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	G9	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	X9	201	CYC	C2C-C1C-NC	2.98	110.77	108.29
12	W4	201	CYC	CHA-C4D-C3D	-2.98	120.81	127.22
12	W8	201	CYC	CHA-C4D-C3D	-2.98	120.81	127.22
12	r7	201	CYC	C2A-C1A-NA	2.98	114.27	110.04
12	A6	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	O4	201	CYC	C4D-C3D-C2D	-2.98	104.15	107.62
12	O8	201	CYC	C4D-C3D-C2D	-2.98	104.15	107.62
12	N7	201	CYC	C2A-C1A-NA	2.98	114.26	110.04
12	X3	201	CYC	C4D-C3D-C2D	-2.98	104.16	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	VA	201	CYC	CHA-C4D-C3D	-2.98	120.82	127.22
12	V9	201	CYC	CHA-C4D-C3D	-2.98	120.82	127.22
12	A1	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	A3	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	N4	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	N8	201	CYC	C1B-C2B-C3B	-2.98	104.80	107.86
12	FA	301	CYC	C4D-C3D-C2D	-2.97	104.16	107.62
12	V3	201	CYC	CHA-C4D-C3D	-2.97	120.83	127.22
12	V1	201	CYC	CHA-C4D-C3D	-2.97	120.83	127.22
12	F6	201	CYC	CHA-C4D-C3D	-2.97	120.83	127.22
12	D7	201	CYC	C2A-C1A-NA	2.97	114.25	110.04
12	O4	201	CYC	C2C-C1C-NC	2.97	110.76	108.29
12	O8	201	CYC	C2C-C1C-NC	2.97	110.76	108.29
12	J4	202	CYC	C1A-C2A-C3A	-2.97	103.51	106.73
12	J8	202	CYC	C1A-C2A-C3A	-2.97	103.51	106.73
12	TA	301	CYC	CHA-C4D-C3D	-2.97	120.83	127.22
12	T9	301	CYC	CHA-C4D-C3D	-2.97	120.83	127.22
12	YA	201	CYC	C1B-C2B-C3B	-2.97	104.81	107.86
12	H2	201	CYC	C4D-C3D-C2D	-2.97	104.16	107.62
12	H6	201	CYC	C4D-C3D-C2D	-2.97	104.16	107.62
12	XA	201	CYC	C2C-C1C-NC	2.97	110.76	108.29
12	Z4	301	CYC	C2C-C1C-NC	2.97	110.76	108.29
12	H4	201	CYC	CHA-C4D-C3D	-2.97	120.83	127.22
12	H8	201	CYC	CHA-C4D-C3D	-2.97	120.83	127.22
12	J6	201	CYC	C1A-C2A-C3A	-2.97	103.51	106.73
12	F2	201	CYC	C2C-C1C-NC	2.97	110.76	108.29
12	P1	201	CYC	CHA-C4D-C3D	-2.97	120.84	127.22
12	P3	201	CYC	CHA-C4D-C3D	-2.97	120.84	127.22
12	FA	301	CYC	CHA-C4D-C3D	-2.97	120.84	127.22
12	F9	301	CYC	CHA-C4D-C3D	-2.97	120.84	127.22
12	T3	301	CYC	CHA-C4D-C3D	-2.97	120.84	127.22
12	B4	202	CYC	CHA-C4D-C3D	-2.97	120.84	127.22
12	S4	202	CYC	CHA-C4D-C3D	-2.97	120.84	127.22
12	M8	302	CYC	CHA-C4D-C3D	-2.97	120.84	127.22
12	F9	301	CYC	C4D-C3D-C2D	-2.97	104.17	107.62
12	XA	201	CYC	CHA-C4D-C3D	-2.97	120.84	127.22
12	H6	201	CYC	CHA-C4D-C3D	-2.97	120.84	127.22
12	X9	201	CYC	CHA-C4D-C3D	-2.97	120.84	127.22
12	T1	301	CYC	CHA-C4D-C3D	-2.97	120.84	127.22
12	BA	201	CYC	C2C-C1C-NC	2.97	110.75	108.29
12	B9	201	CYC	C2C-C1C-NC	2.97	110.75	108.29
12	J6	202	CYC	C4D-C3D-C2D	-2.97	104.17	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	D5	201	CYC	C2A-C1A-NA	2.96	114.24	110.04
12	X3	201	CYC	CHA-C4D-C3D	-2.96	120.85	127.22
12	f5	201	CYC	C2A-C1A-NA	2.96	114.24	110.04
12	R1	201	CYC	CHA-C4D-C3D	-2.96	120.85	127.22
12	R3	201	CYC	CHA-C4D-C3D	-2.96	120.85	127.22
12	G4	201	CYC	C1B-C2B-C3B	-2.96	104.82	107.86
12	G8	201	CYC	C1B-C2B-C3B	-2.96	104.82	107.86
12	Z3	201	CYC	CHA-C4D-C3D	-2.96	120.85	127.22
12	L3	202	CYC	CHA-C4D-C3D	-2.96	120.85	127.22
12	aA	902	CYC	CHA-C4D-C3D	-2.96	120.85	127.22
12	Z1	202	CYC	CHA-C4D-C3D	-2.96	120.85	127.22
12	H4	201	CYC	C4D-C3D-C2D	-2.96	104.17	107.62
12	H8	201	CYC	C4D-C3D-C2D	-2.96	104.17	107.62
12	J7	201	CYC	C2A-C1A-NA	2.96	114.24	110.04
12	J2	202	CYC	C4D-C3D-C2D	-2.96	104.18	107.62
12	X1	201	CYC	C4D-C3D-C2D	-2.96	104.18	107.62
12	X4	201	CYC	C1B-C2B-C3B	-2.96	104.82	107.86
12	X8	201	CYC	C1B-C2B-C3B	-2.96	104.82	107.86
12	K8	201	CYC	C1B-C2B-C3B	-2.96	104.82	107.86
12	PA	201	CYC	CHA-C4D-C3D	-2.96	120.86	127.22
12	L2	201	CYC	CHA-C4D-C3D	-2.96	120.86	127.22
12	P9	201	CYC	CHA-C4D-C3D	-2.96	120.86	127.22
12	P1	201	CYC	C2C-C1C-NC	2.96	110.75	108.29
12	P3	201	CYC	C2C-C1C-NC	2.96	110.75	108.29
12	k5	1203	CYC	C2A-C1A-NA	2.96	114.23	110.04
12	L6	201	CYC	CHA-C4D-C3D	-2.96	120.86	127.22
12	X1	201	CYC	CHA-C4D-C3D	-2.96	120.87	127.22
12	KA	201	CYC	CBC-CAC-C3C	-2.95	107.15	113.41
12	K9	201	CYC	CBC-CAC-C3C	-2.95	107.15	113.41
12	d5	201	CYC	C2A-C1A-NA	2.95	114.23	110.04
12	Y3	201	CYC	C1B-C2B-C3B	-2.95	104.83	107.86
12	Y1	201	CYC	C1B-C2B-C3B	-2.95	104.83	107.86
12	D9	202	CYC	C1D-C2D-C3D	-2.95	104.06	107.76
12	Y3	201	CYC	CBC-CAC-C3C	-2.95	107.15	113.41
12	Y1	201	CYC	CBC-CAC-C3C	-2.95	107.15	113.41
12	W4	202	CYC	C1D-C2D-C3D	-2.95	104.07	107.76
12	W8	202	CYC	C1D-C2D-C3D	-2.95	104.07	107.76
12	F2	202	CYC	OC-C1C-C2C	-2.95	123.83	126.17
12	J2	201	CYC	C1A-C2A-C3A	-2.95	103.54	106.73
12	TA	301	CYC	C4D-C3D-C2D	-2.94	104.19	107.62
12	T9	301	CYC	C4D-C3D-C2D	-2.94	104.19	107.62
12	H8	202	CYC	C1A-C2A-C3A	-2.94	103.54	106.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	C9	201	CYC	CBC-CAC-C3C	-2.94	107.17	113.41
12	N2	101	CYC	C2C-C1C-NC	2.94	110.73	108.29
12	P7	201	CYC	C2A-C1A-NA	2.94	114.21	110.04
12	P8	201	CYC	CBC-CAC-C3C	-2.94	107.18	113.41
12	KA	201	CYC	C1B-C2B-C3B	-2.94	104.84	107.86
12	K9	201	CYC	C1B-C2B-C3B	-2.94	104.84	107.86
12	T7	201	CYC	C2A-C1A-NA	2.94	114.20	110.04
12	L6	201	CYC	C2C-C1C-NC	2.94	110.73	108.29
12	T9	302	CYC	C1A-C2A-C3A	-2.94	103.55	106.73
12	IA	201	CYC	CBC-CAC-C3C	-2.94	107.18	113.41
12	I9	201	CYC	CBC-CAC-C3C	-2.94	107.18	113.41
12	j5	1201	CYC	OC-C1C-C2C	-2.94	123.84	126.17
12	E4	201	CYC	CBC-CAC-C3C	-2.94	107.19	113.41
12	E8	201	CYC	CBC-CAC-C3C	-2.94	107.19	113.41
12	I4	201	CYC	C1B-C2B-C3B	-2.94	104.84	107.86
12	I8	201	CYC	C1B-C2B-C3B	-2.94	104.84	107.86
12	T4	201	CYC	C1B-C2B-C3B	-2.93	104.85	107.86
12	T8	201	CYC	C1B-C2B-C3B	-2.93	104.85	107.86
12	BA	201	CYC	CHA-C4D-C3D	-2.93	120.91	127.22
12	B9	201	CYC	CHA-C4D-C3D	-2.93	120.91	127.22
12	RA	201	CYC	C2C-C1C-NC	2.93	110.73	108.29
12	R9	201	CYC	C2C-C1C-NC	2.93	110.73	108.29
12	E3	201	CYC	C1B-C2B-C3B	-2.93	104.85	107.86
12	K4	201	CYC	C1B-C2B-C3B	-2.93	104.85	107.86
12	E1	201	CYC	C1B-C2B-C3B	-2.93	104.85	107.86
12	QA	201	CYC	C1B-C2B-C3B	-2.93	104.85	107.86
12	R3	201	CYC	C2C-C1C-NC	2.93	110.73	108.29
12	Q9	201	CYC	C1B-C2B-C3B	-2.93	104.85	107.86
12	H3	202	CYC	CHA-C4D-C3D	-2.93	120.92	127.22
12	I3	201	CYC	CBC-CAC-C3C	-2.93	107.20	113.41
12	T8	201	CYC	CBC-CAC-C3C	-2.93	107.20	113.41
12	I1	201	CYC	CBC-CAC-C3C	-2.93	107.20	113.41
12	DA	202	CYC	C1D-C2D-C3D	-2.93	104.10	107.76
12	L2	201	CYC	C2C-C1C-NC	2.93	110.72	108.29
12	CA	201	CYC	CBC-CAC-C3C	-2.93	107.20	113.41
12	j5	1201	CYC	C4A-C3A-C2A	-2.93	103.16	106.48
12	N6	101	CYC	C2C-C1C-NC	2.93	110.72	108.29
12	B5	201	CYC	C2A-C1A-NA	2.92	114.18	110.04
12	UA	201	CYC	C1B-C2B-C3B	-2.92	104.86	107.86
12	U9	201	CYC	C1B-C2B-C3B	-2.92	104.86	107.86
12	H4	202	CYC	C1A-C2A-C3A	-2.92	103.56	106.73
12	P4	201	CYC	CBC-CAC-C3C	-2.92	107.21	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	K3	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	I6	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	K1	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	I2	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	T4	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	N4	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	WA	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	W9	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	K4	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	K8	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	SA	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	S9	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	H5	201	CYC	C2A-C1A-NA	2.92	114.18	110.04
12	O4	201	CYC	CHA-C4D-C3D	-2.92	120.94	127.22
12	O8	201	CYC	CHA-C4D-C3D	-2.92	120.94	127.22
12	JA	201	CYC	C1A-C2A-C3A	-2.92	103.57	106.73
12	J9	201	CYC	C1A-C2A-C3A	-2.92	103.57	106.73
12	R8	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	H1	201	CYC	CHA-C4D-C3D	-2.92	120.95	127.22
12	E4	201	CYC	C1B-C2B-C3B	-2.92	104.86	107.86
12	G3	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	G1	201	CYC	CBC-CAC-C3C	-2.92	107.22	113.41
12	J3	201	CYC	C1D-C2D-C3D	-2.92	104.11	107.76
12	J1	201	CYC	C1D-C2D-C3D	-2.92	104.11	107.76
12	W8	202	CYC	C1A-C2A-C3A	-2.92	103.57	106.73
12	W4	202	CYC	C1A-C2A-C3A	-2.91	103.57	106.73
12	K6	201	CYC	CBC-CAC-C3C	-2.91	107.23	113.41
12	C4	201	CYC	CBC-CAC-C3C	-2.91	107.23	113.41
12	C8	201	CYC	CBC-CAC-C3C	-2.91	107.23	113.41
12	X1	202	CYC	C1A-C2A-C3A	-2.91	103.58	106.73
12	Y4	201	CYC	C1D-C2D-C3D	-2.91	104.11	107.76
12	Q1	201	CYC	CBC-CAC-C3C	-2.91	107.23	113.41
12	Q3	201	CYC	CBC-CAC-C3C	-2.91	107.23	113.41
12	X3	202	CYC	C1A-C2A-C3A	-2.91	103.58	106.73
12	YA	201	CYC	CBC-CAC-C3C	-2.91	107.24	113.41
12	Y9	201	CYC	CBC-CAC-C3C	-2.91	107.24	113.41
12	J2	201	CYC	C1D-C2D-C3D	-2.91	104.12	107.76
12	J6	201	CYC	C1D-C2D-C3D	-2.91	104.12	107.76
12	O9	201	CYC	C1B-C2B-C3B	-2.91	104.87	107.86
12	S1	201	CYC	CBC-CAC-C3C	-2.91	107.24	113.41
12	S3	201	CYC	CBC-CAC-C3C	-2.91	107.24	113.41
12	N7	201	CYC	CMB-C2B-C1B	2.91	127.70	124.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	P1	202	CYC	C1A-C2A-C3A	-2.91	103.58	106.73
12	P3	202	CYC	C1A-C2A-C3A	-2.91	103.58	106.73
12	Q8	201	CYC	C1A-C2A-C3A	-2.91	103.58	106.73
12	UA	201	CYC	CBC-CAC-C3C	-2.91	107.24	113.41
12	U9	201	CYC	CBC-CAC-C3C	-2.91	107.24	113.41
12	V3	201	CYC	C2C-C1C-NC	2.91	110.71	108.29
12	V1	201	CYC	C2C-C1C-NC	2.91	110.71	108.29
12	C6	201	CYC	CBC-CAC-C3C	-2.91	107.25	113.41
12	R4	201	CYC	CBC-CAC-C3C	-2.91	107.25	113.41
12	A6	201	CYC	CBC-CAC-C3C	-2.91	107.25	113.41
12	V4	201	CYC	CBC-CAC-C3C	-2.91	107.25	113.41
12	V8	201	CYC	CBC-CAC-C3C	-2.91	107.25	113.41
12	U3	201	CYC	C1B-C2B-C3B	-2.90	104.88	107.86
12	U1	201	CYC	C1B-C2B-C3B	-2.90	104.88	107.86
12	N8	201	CYC	CBC-CAC-C3C	-2.90	107.25	113.41
12	TA	302	CYC	C1A-C2A-C3A	-2.90	103.58	106.73
12	BA	201	CYC	C4D-C3D-C2D	-2.90	104.24	107.62
12	B9	201	CYC	C4D-C3D-C2D	-2.90	104.24	107.62
12	X8	201	CYC	CBC-CAC-C3C	-2.90	107.26	113.41
12	A4	201	CYC	C1B-C2B-C3B	-2.90	104.88	107.86
12	A8	201	CYC	C1B-C2B-C3B	-2.90	104.88	107.86
12	QA	201	CYC	CBC-CAC-C3C	-2.90	107.27	113.41
12	X9	202	CYC	C1D-C2D-C3D	-2.90	104.13	107.76
12	U3	201	CYC	CBC-CAC-C3C	-2.90	107.27	113.41
12	U1	201	CYC	CBC-CAC-C3C	-2.90	107.27	113.41
12	C2	201	CYC	CBC-CAC-C3C	-2.90	107.27	113.41
12	F6	202	CYC	OC-C1C-C2C	-2.90	123.87	126.17
12	Z5	201	CYC	C2A-C1A-NA	2.90	114.14	110.04
12	EA	201	CYC	CBC-CAC-C3C	-2.89	107.28	113.41
12	E9	201	CYC	CBC-CAC-C3C	-2.89	107.28	113.41
12	E8	201	CYC	C1B-C2B-C3B	-2.89	104.89	107.86
12	R1	201	CYC	C2C-C1C-NC	2.89	110.69	108.29
12	W3	201	CYC	CBC-CAC-C3C	-2.89	107.28	113.41
12	W1	201	CYC	CBC-CAC-C3C	-2.89	107.28	113.41
12	OA	201	CYC	C1B-C2B-C3B	-2.89	104.89	107.86
12	G6	201	CYC	CBC-CAC-C3C	-2.89	107.28	113.41
12	Y8	201	CYC	C1D-C2D-C3D	-2.89	104.14	107.76
12	Q9	201	CYC	CBC-CAC-C3C	-2.89	107.28	113.41
12	D5	201	CYC	CMB-C2B-C1B	2.89	127.67	124.16
12	A2	201	CYC	CBC-CAC-C3C	-2.89	107.28	113.41
12	k5	1201	CYC	OC-C1C-C2C	-2.89	123.88	126.17
12	P1	201	CYC	C4D-C3D-C2D	-2.89	104.26	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	P3	201	CYC	C4D-C3D-C2D	-2.89	104.26	107.62
12	K2	201	CYC	CBC-CAC-C3C	-2.89	107.29	113.41
12	L6	202	CYC	C1A-C2A-C3A	-2.89	103.60	106.73
12	C1	201	CYC	C1B-C2B-C3B	-2.89	104.89	107.86
12	p7	201	CYC	CMB-C2B-C1B	2.89	127.67	124.16
12	X4	201	CYC	CBC-CAC-C3C	-2.89	107.29	113.41
12	L2	202	CYC	C1A-C2A-C3A	-2.89	103.61	106.73
12	ZA	201	CYC	C1D-C2D-C3D	-2.88	104.15	107.76
12	Z9	201	CYC	C1D-C2D-C3D	-2.88	104.15	107.76
12	h7	201	CYC	CMB-C2B-C1B	2.88	127.67	124.16
12	G2	201	CYC	CBC-CAC-C3C	-2.88	107.30	113.41
12	PA	202	CYC	C1D-C2D-C3D	-2.88	104.15	107.76
12	P9	202	CYC	C1D-C2D-C3D	-2.88	104.15	107.76
12	b7	201	CYC	CMB-C2B-C1B	2.88	127.66	124.16
12	S4	201	CYC	C1D-C2D-C3D	-2.88	104.16	107.76
12	S8	201	CYC	C1D-C2D-C3D	-2.88	104.16	107.76
12	B6	201	CYC	C1A-C2A-C3A	-2.88	103.61	106.73
12	B7	201	CYC	CMB-C2B-C1B	2.88	127.66	124.16
12	C3	201	CYC	CBC-CAC-C3C	-2.88	107.31	113.41
12	C1	201	CYC	CBC-CAC-C3C	-2.88	107.31	113.41
12	BA	202	CYC	C1D-C2D-C3D	-2.88	104.16	107.76
12	B9	202	CYC	C1D-C2D-C3D	-2.88	104.16	107.76
12	J5	201	CYC	CMB-C2B-C1B	2.88	127.66	124.16
12	VA	202	CYC	C1D-C2D-C3D	-2.88	104.16	107.76
12	V9	202	CYC	C1D-C2D-C3D	-2.88	104.16	107.76
12	O1	201	CYC	CBC-CAC-C3C	-2.88	107.31	113.41
12	O3	201	CYC	CBC-CAC-C3C	-2.88	107.31	113.41
12	C4	201	CYC	C1B-C2B-C3B	-2.88	104.91	107.86
12	C8	201	CYC	C1B-C2B-C3B	-2.88	104.91	107.86
12	E3	201	CYC	CBC-CAC-C3C	-2.88	107.31	113.41
12	E1	201	CYC	CBC-CAC-C3C	-2.88	107.31	113.41
12	IA	201	CYC	C1B-C2B-C3B	-2.88	104.91	107.86
12	I9	201	CYC	C1B-C2B-C3B	-2.88	104.91	107.86
12	LA	201	CYC	C1D-C2D-C3D	-2.87	104.16	107.76
12	L9	201	CYC	C1D-C2D-C3D	-2.87	104.16	107.76
12	XA	202	CYC	C1D-C2D-C3D	-2.87	104.16	107.76
12	B3	201	CYC	C1A-C2A-C3A	-2.87	103.62	106.73
12	B1	201	CYC	C1A-C2A-C3A	-2.87	103.62	106.73
12	S8	201	CYC	C1A-C2A-C3A	-2.87	103.62	106.73
12	H7	201	CYC	CMB-C2B-C1B	2.87	127.65	124.16
12	C3	201	CYC	C1B-C2B-C3B	-2.87	104.91	107.86
12	V4	201	CYC	C1B-C2B-C3B	-2.87	104.91	107.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	O1	201	CYC	C4D-C3D-C2D	-2.87	104.28	107.62
12	O3	201	CYC	C4D-C3D-C2D	-2.87	104.28	107.62
12	T3	302	CYC	C1A-C2A-C3A	-2.87	103.62	106.73
12	T1	302	CYC	C1A-C2A-C3A	-2.87	103.62	106.73
12	F2	202	CYC	C1A-C2A-C3A	-2.87	103.62	106.73
12	G4	201	CYC	CBC-CAC-C3C	-2.87	107.33	113.41
12	G8	201	CYC	CBC-CAC-C3C	-2.87	107.33	113.41
12	f5	201	CYC	CMB-C2B-C1B	2.87	127.64	124.16
12	X3	201	CYC	C2C-C1C-NC	2.87	110.67	108.29
12	X1	201	CYC	C2C-C1C-NC	2.87	110.67	108.29
12	k5	1201	CYC	C4A-C3A-C2A	-2.87	103.22	106.48
12	L6	202	CYC	C1D-C2D-C3D	-2.87	104.17	107.76
12	F4	201	CYC	C1A-C2A-C3A	-2.86	103.63	106.73
12	F8	201	CYC	C1A-C2A-C3A	-2.86	103.63	106.73
12	v7	201	CYC	CMB-C2B-C1B	2.86	127.64	124.16
12	B2	201	CYC	C1A-C2A-C3A	-2.86	103.63	106.73
12	V7	201	CYC	CMB-C2B-C1B	2.86	127.64	124.16
12	U4	202	CYC	C1D-C2D-C3D	-2.86	104.18	107.76
12	A1	201	CYC	CBC-CAC-C3C	-2.86	107.35	113.41
12	A3	201	CYC	CBC-CAC-C3C	-2.86	107.35	113.41
12	A4	201	CYC	CBC-CAC-C3C	-2.86	107.35	113.41
12	O1	201	CYC	CHA-C4D-C3D	-2.86	121.07	127.22
12	O3	201	CYC	CHA-C4D-C3D	-2.86	121.07	127.22
12	SA	201	CYC	C1B-C2B-C3B	-2.86	104.92	107.86
12	WA	201	CYC	C1B-C2B-C3B	-2.86	104.92	107.86
12	S9	201	CYC	C1B-C2B-C3B	-2.86	104.92	107.86
12	W9	201	CYC	C1B-C2B-C3B	-2.86	104.92	107.86
12	A1	201	CYC	CHA-C4D-C3D	-2.86	121.08	127.22
12	A3	201	CYC	CHA-C4D-C3D	-2.86	121.08	127.22
12	Q4	201	CYC	C1A-C2A-C3A	-2.86	103.64	106.73
12	k5	1202	CYC	CMB-C2B-C1B	2.86	127.63	124.16
12	F1	202	CYC	C1D-C2D-C3D	-2.86	104.19	107.76
12	R1	202	CYC	C1A-C2A-C3A	-2.86	103.64	106.73
12	A8	201	CYC	CBC-CAC-C3C	-2.85	107.36	113.41
12	W3	201	CYC	C4D-C3D-C2D	-2.85	104.30	107.62
12	W1	201	CYC	C4D-C3D-C2D	-2.85	104.30	107.62
12	LA	201	CYC	C1A-C2A-C3A	-2.85	103.64	106.73
12	L9	201	CYC	C1A-C2A-C3A	-2.85	103.64	106.73
12	I3	201	CYC	C1B-C2B-C3B	-2.85	104.93	107.86
12	I1	201	CYC	C1B-C2B-C3B	-2.85	104.93	107.86
12	R5	201	CYC	CMB-C2B-C1B	2.85	127.63	124.16
12	PA	202	CYC	C1A-C2A-C3A	-2.85	103.64	106.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	P9	202	CYC	C1A-C2A-C3A	-2.85	103.64	106.73
12	OA	201	CYC	CBC-CAC-C3C	-2.85	107.37	113.41
12	O9	201	CYC	CBC-CAC-C3C	-2.85	107.37	113.41
12	F4	201	CYC	C1D-C2D-C3D	-2.85	104.19	107.76
12	F8	201	CYC	C1D-C2D-C3D	-2.85	104.19	107.76
12	FA	301	CYC	C2C-C1C-NC	2.85	110.66	108.29
12	F9	301	CYC	C2C-C1C-NC	2.85	110.66	108.29
12	L7	201	CYC	CMB-C2B-C1B	2.85	127.62	124.16
12	f7	201	CYC	CMB-C2B-C1B	2.85	127.62	124.16
12	X9	202	CYC	C1A-C2A-C3A	-2.85	103.64	106.73
12	D4	201	CYC	C1A-C2A-C3A	-2.85	103.65	106.73
12	D8	201	CYC	C1A-C2A-C3A	-2.85	103.65	106.73
12	S4	201	CYC	C1A-C2A-C3A	-2.84	103.65	106.73
12	L4	201	CYC	C1D-C2D-C3D	-2.84	104.20	107.76
12	L8	201	CYC	C1D-C2D-C3D	-2.84	104.20	107.76
12	V7	201	CYC	CHA-C4D-C3D	-2.84	121.11	127.22
12	F7	201	CYC	CMB-C2B-C1B	2.84	127.62	124.16
12	W3	201	CYC	CHA-C4D-C3D	-2.84	121.11	127.22
12	W1	201	CYC	CHA-C4D-C3D	-2.84	121.11	127.22
12	X3	202	CYC	C1D-C2D-C3D	-2.84	104.20	107.76
12	X1	202	CYC	C1D-C2D-C3D	-2.84	104.20	107.76
12	V8	201	CYC	C1B-C2B-C3B	-2.84	104.94	107.86
12	T7	201	CYC	CMB-C2B-C1B	2.84	127.61	124.16
12	XA	202	CYC	C1A-C2A-C3A	-2.84	103.65	106.73
12	R7	201	CYC	CMB-C2B-C1B	2.84	127.61	124.16
12	B8	201	CYC	C1D-C2D-C3D	-2.84	104.21	107.76
12	R3	202	CYC	C1A-C2A-C3A	-2.84	103.66	106.73
12	F9	302	CYC	C1A-C2A-C3A	-2.84	103.66	106.73
12	F3	202	CYC	C1D-C2D-C3D	-2.84	104.21	107.76
12	D4	201	CYC	C1D-C2D-C3D	-2.84	104.21	107.76
12	Q4	201	CYC	C1D-C2D-C3D	-2.84	104.21	107.76
12	D8	201	CYC	C1D-C2D-C3D	-2.84	104.21	107.76
12	k5	1203	CYC	C2C-C1C-NC	2.84	110.65	108.29
12	V5	201	CYC	CHA-C4D-C3D	-2.84	121.12	127.22
12	W3	201	CYC	C1B-C2B-C3B	-2.84	104.95	107.86
12	W1	201	CYC	C1B-C2B-C3B	-2.84	104.95	107.86
12	L2	202	CYC	C1D-C2D-C3D	-2.84	104.21	107.76
12	U8	202	CYC	C1D-C2D-C3D	-2.84	104.21	107.76
12	I2	201	CYC	CHA-C4D-C3D	-2.84	121.12	127.22
12	X5	201	CYC	CMB-C2B-C1B	2.84	127.61	124.16
12	TA	302	CYC	C1D-C2D-C3D	-2.84	104.21	107.76
12	T9	302	CYC	C1D-C2D-C3D	-2.84	104.21	107.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	O4	202	CYC	C1A-C2A-C3A	-2.84	103.66	106.73
12	O8	202	CYC	C1A-C2A-C3A	-2.84	103.66	106.73
12	H3	201	CYC	C1D-C2D-C3D	-2.84	104.21	107.76
12	H1	202	CYC	C1D-C2D-C3D	-2.84	104.21	107.76
12	S1	201	CYC	C4D-C3D-C2D	-2.83	104.32	107.62
12	S3	201	CYC	C4D-C3D-C2D	-2.83	104.32	107.62
12	E3	201	CYC	CHA-C4D-C3D	-2.83	121.13	127.22
12	E1	201	CYC	CHA-C4D-C3D	-2.83	121.13	127.22
12	UA	201	CYC	C4D-C3D-C2D	-2.83	104.32	107.62
12	U9	201	CYC	C4D-C3D-C2D	-2.83	104.32	107.62
12	N4	201	CYC	CHA-C4D-C3D	-2.83	121.13	127.22
12	N8	201	CYC	CHA-C4D-C3D	-2.83	121.13	127.22
12	I6	201	CYC	C1B-C2B-C3B	-2.83	104.95	107.86
12	k5	1202	CYC	CHA-C4D-C3D	-2.83	121.13	127.22
12	JA	201	CYC	C1D-C2D-C3D	-2.83	104.22	107.76
12	Q8	201	CYC	C1D-C2D-C3D	-2.83	104.22	107.76
12	J9	201	CYC	C1D-C2D-C3D	-2.83	104.22	107.76
12	I9	201	CYC	C4D-C3D-C2D	-2.83	104.33	107.62
12	B4	201	CYC	C1A-C2A-C3A	-2.83	103.66	106.73
12	Y4	201	CYC	C1A-C2A-C3A	-2.83	103.66	106.73
12	Y8	201	CYC	C1A-C2A-C3A	-2.83	103.66	106.73
12	Z	201	CYC	CMB-C2B-C1B	2.83	127.60	124.16
12	I6	201	CYC	CHA-C4D-C3D	-2.83	121.14	127.22
12	H5	201	CYC	CHA-C4D-C3D	-2.83	121.14	127.22
12	D7	201	CYC	CMB-C2B-C1B	2.83	127.60	124.16
12	R7	201	CYC	CHA-C4D-C3D	-2.82	121.15	127.22
12	A1	201	CYC	C4D-C3D-C2D	-2.82	104.33	107.62
12	A3	201	CYC	C4D-C3D-C2D	-2.82	104.33	107.62
12	G4	201	CYC	C4D-C3D-C2D	-2.82	104.34	107.62
12	B6	201	CYC	C1D-C2D-C3D	-2.82	104.23	107.76
12	E3	201	CYC	C4D-C3D-C2D	-2.82	104.34	107.62
12	G6	201	CYC	C4D-C3D-C2D	-2.82	104.34	107.62
12	F9	303	CYC	C1A-C2A-C3A	-2.82	103.68	106.73
12	d7	201	CYC	CHA-C4D-C3D	-2.82	121.16	127.22
12	C2	201	CYC	CHA-C4D-C3D	-2.82	121.16	127.22
12	H4	202	CYC	C1D-C2D-C3D	-2.82	104.23	107.76
12	F6	202	CYC	C1A-C2A-C3A	-2.82	103.68	106.73
12	B4	201	CYC	C1D-C2D-C3D	-2.82	104.23	107.76
12	I5	201	CYC	CMB-C2B-C1B	2.82	127.58	124.16
12	I4	201	CYC	CHA-C4D-C3D	-2.82	121.17	127.22
12	I8	201	CYC	CHA-C4D-C3D	-2.82	121.17	127.22
12	f7	201	CYC	CHA-C4D-C3D	-2.82	121.17	127.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	E1	201	CYC	C4D-C3D-C2D	-2.82	104.34	107.62
12	T7	201	CYC	CHA-C4D-C3D	-2.82	121.17	127.22
12	B5	201	CYC	CHA-C4D-C3D	-2.81	121.17	127.22
12	J3	201	CYC	C1A-C2A-C3A	-2.81	103.68	106.73
12	B8	201	CYC	C1A-C2A-C3A	-2.81	103.68	106.73
12	G2	201	CYC	C4D-C3D-C2D	-2.81	104.35	107.62
12	G2	201	CYC	CHA-C4D-C3D	-2.81	121.17	127.22
12	I2	201	CYC	C1B-C2B-C3B	-2.81	104.97	107.86
12	T3	302	CYC	C1D-C2D-C3D	-2.81	104.24	107.76
12	T1	302	CYC	C1D-C2D-C3D	-2.81	104.24	107.76
12	L3	201	CYC	C1D-C2D-C3D	-2.81	104.24	107.76
12	L1	201	CYC	C1D-C2D-C3D	-2.81	104.24	107.76
12	Z1	201	CYC	C1D-C2D-C3D	-2.81	104.24	107.76
12	IA	201	CYC	C4D-C3D-C2D	-2.81	104.35	107.62
12	b5	201	CYC	CMB-C2B-C1B	2.81	127.58	124.16
12	J4	202	CYC	C1D-C2D-C3D	-2.81	104.24	107.76
12	J8	202	CYC	C1D-C2D-C3D	-2.81	104.24	107.76
12	B2	201	CYC	C1D-C2D-C3D	-2.81	104.24	107.76
12	I3	201	CYC	CHA-C4D-C3D	-2.81	121.18	127.22
12	I1	201	CYC	CHA-C4D-C3D	-2.81	121.18	127.22
12	HA	201	CYC	C1A-C2A-C3A	-2.81	103.69	106.73
12	H9	201	CYC	C1A-C2A-C3A	-2.81	103.69	106.73
12	T5	201	CYC	CHA-C4D-C3D	-2.81	121.18	127.22
12	Z	201	CYC	CHA-C4D-C3D	-2.81	121.18	127.22
12	Z3	202	CYC	C1A-C2A-C3A	-2.81	103.69	106.73
12	Z1	201	CYC	C1A-C2A-C3A	-2.81	103.69	106.73
12	P1	202	CYC	C1D-C2D-C3D	-2.81	104.25	107.76
12	N5	201	CYC	CHA-C4D-C3D	-2.81	121.19	127.22
12	C6	201	CYC	CHA-C4D-C3D	-2.81	121.19	127.22
12	F7	201	CYC	CHA-C4D-C3D	-2.81	121.19	127.22
12	B3	201	CYC	C1D-C2D-C3D	-2.80	104.25	107.76
12	B1	201	CYC	C1D-C2D-C3D	-2.80	104.25	107.76
12	A	201	CYC	CMB-C2B-C1B	2.80	127.57	124.16
12	CA	201	CYC	CHA-C4D-C3D	-2.80	121.19	127.22
12	h7	201	CYC	CHA-C4D-C3D	-2.80	121.19	127.22
12	C9	201	CYC	CHA-C4D-C3D	-2.80	121.19	127.22
12	I4	201	CYC	C4D-C3D-C2D	-2.80	104.36	107.62
12	I8	201	CYC	C4D-C3D-C2D	-2.80	104.36	107.62
12	G6	201	CYC	CHA-C4D-C3D	-2.80	121.19	127.22
12	L7	201	CYC	CHA-C4D-C3D	-2.80	121.19	127.22
12	r7	201	CYC	C2C-C1C-NC	2.80	110.62	108.29
12	C3	201	CYC	CHA-C4D-C3D	-2.80	121.20	127.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	C1	201	CYC	CHA-C4D-C3D	-2.80	121.20	127.22
12	G2	201	CYC	C1B-C2B-C3B	-2.80	104.98	107.86
12	P7	201	CYC	CHA-C4D-C3D	-2.80	121.20	127.22
12	AA	201	CYC	C1B-C2B-C3B	-2.80	104.98	107.86
12	A9	201	CYC	C1B-C2B-C3B	-2.80	104.98	107.86
12	G8	201	CYC	C4D-C3D-C2D	-2.80	104.36	107.62
12	F3	202	CYC	C1A-C2A-C3A	-2.80	103.70	106.73
12	F1	202	CYC	C1A-C2A-C3A	-2.80	103.70	106.73
12	j7	201	CYC	CHA-C4D-C3D	-2.80	121.20	127.22
12	RA	202	CYC	C1D-C2D-C3D	-2.80	104.26	107.76
12	R1	202	CYC	C1D-C2D-C3D	-2.80	104.26	107.76
12	H8	202	CYC	C1D-C2D-C3D	-2.80	104.26	107.76
12	R9	202	CYC	C1D-C2D-C3D	-2.80	104.26	107.76
12	d5	201	CYC	CHA-C4D-C3D	-2.80	121.20	127.22
12	Z5	201	CYC	CHA-C4D-C3D	-2.80	121.20	127.22
12	A	201	CYC	CHA-C4D-C3D	-2.80	121.20	127.22
12	k5	1203	CYC	CHA-C4D-C3D	-2.80	121.20	127.22
12	b7	201	CYC	CHA-C4D-C3D	-2.80	121.20	127.22
12	AA	201	CYC	CHA-C4D-C3D	-2.80	121.21	127.22
12	A9	201	CYC	CHA-C4D-C3D	-2.80	121.21	127.22
12	J1	201	CYC	C1A-C2A-C3A	-2.80	103.70	106.73
12	R4	201	CYC	CHA-C4D-C3D	-2.80	121.21	127.22
12	R8	201	CYC	CHA-C4D-C3D	-2.80	121.21	127.22
12	F6	202	CYC	C1D-C2D-C3D	-2.80	104.26	107.76
12	A6	201	CYC	CHA-C4D-C3D	-2.79	121.21	127.22
12	A2	201	CYC	CHA-C4D-C3D	-2.79	121.21	127.22
12	HA	201	CYC	C1D-C2D-C3D	-2.79	104.26	107.76
12	H9	201	CYC	C1D-C2D-C3D	-2.79	104.26	107.76
12	X7	201	CYC	CHA-C4D-C3D	-2.79	121.22	127.22
12	D2	202	CYC	C1D-C2D-C3D	-2.79	104.27	107.76
12	S1	201	CYC	CHA-C4D-C3D	-2.79	121.22	127.22
12	S3	201	CYC	CHA-C4D-C3D	-2.79	121.22	127.22
12	X5	201	CYC	CHA-C4D-C3D	-2.79	121.22	127.22
12	r7	201	CYC	CHA-C4D-C3D	-2.79	121.22	127.22
12	k5	1204	CYC	CHA-C4D-C3D	-2.79	121.22	127.22
12	P5	201	CYC	CHA-C4D-C3D	-2.79	121.22	127.22
12	VA	202	CYC	C1A-C2A-C3A	-2.79	103.71	106.73
12	V9	202	CYC	C1A-C2A-C3A	-2.79	103.71	106.73
12	k5	1203	CYC	CMB-C2B-C1B	2.79	127.55	124.16
12	d5	201	CYC	C2C-C1C-NC	2.79	110.61	108.29
12	Z3	202	CYC	C1D-C2D-C3D	-2.79	104.27	107.76
12	F5	201	CYC	CMB-C2B-C1B	2.79	127.55	124.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	SA	201	CYC	CHA-C4D-C3D	-2.79	121.23	127.22
12	S9	201	CYC	CHA-C4D-C3D	-2.79	121.23	127.22
12	k5	1204	CYC	CMB-C2B-C1B	2.79	127.55	124.16
12	H5	201	CYC	C2C-C1C-NC	2.79	110.61	108.29
12	P3	202	CYC	C1D-C2D-C3D	-2.79	104.27	107.76
12	g7	201	CYC	CMB-C2B-C1B	2.79	127.55	124.16
12	UA	201	CYC	CHA-C4D-C3D	-2.79	121.23	127.22
12	X4	201	CYC	CHA-C4D-C3D	-2.79	121.23	127.22
12	H7	201	CYC	CHA-C4D-C3D	-2.79	121.23	127.22
12	X8	201	CYC	CHA-C4D-C3D	-2.79	121.23	127.22
12	U9	201	CYC	CHA-C4D-C3D	-2.79	121.23	127.22
12	J6	202	CYC	CBB-CAB-C3B	-2.79	104.86	112.42
12	D6	202	CYC	C1D-C2D-C3D	-2.79	104.27	107.76
12	SA	201	CYC	C4D-C3D-C2D	-2.78	104.38	107.62
12	S9	201	CYC	C4D-C3D-C2D	-2.78	104.38	107.62
12	A4	201	CYC	CHA-C4D-C3D	-2.78	121.23	127.22
12	A8	201	CYC	CHA-C4D-C3D	-2.78	121.23	127.22
12	X7	201	CYC	CMB-C2B-C1B	2.78	127.55	124.16
12	I3	201	CYC	C4D-C3D-C2D	-2.78	104.38	107.62
12	I1	201	CYC	C4D-C3D-C2D	-2.78	104.38	107.62
12	E4	201	CYC	CHA-C4D-C3D	-2.78	121.24	127.22
12	E8	201	CYC	CHA-C4D-C3D	-2.78	121.24	127.22
12	XA	201	CYC	CBB-CAB-C3B	-2.78	104.88	112.42
12	X9	201	CYC	CBB-CAB-C3B	-2.78	104.88	112.42
12	C4	201	CYC	CHA-C4D-C3D	-2.78	121.24	127.22
12	C8	201	CYC	CHA-C4D-C3D	-2.78	121.24	127.22
12	a7	201	CYC	CMB-C2B-C1B	2.78	127.54	124.16
12	C5	201	CYC	CMB-C2B-C1B	2.78	127.54	124.16
12	D3	201	CYC	C1A-C2A-C3A	-2.78	103.72	106.73
12	D1	201	CYC	C1A-C2A-C3A	-2.78	103.72	106.73
12	G4	201	CYC	CHA-C4D-C3D	-2.78	121.24	127.22
12	G8	201	CYC	CHA-C4D-C3D	-2.78	121.24	127.22
12	D9	202	CYC	C1A-C2A-C3A	-2.78	103.72	106.73
12	P7	201	CYC	CMB-C2B-C1B	2.78	127.54	124.16
12	j5	1202	CYC	CHA-C4D-C3D	-2.78	121.25	127.22
12	I9	201	CYC	CHA-C4D-C3D	-2.78	121.25	127.22
12	b7	201	CYC	C2C-C1C-NC	2.78	110.60	108.29
12	R5	201	CYC	CHA-C4D-C3D	-2.78	121.25	127.22
12	Q1	201	CYC	CHA-C4D-C3D	-2.78	121.25	127.22
12	Q3	201	CYC	CHA-C4D-C3D	-2.78	121.25	127.22
12	f7	201	CYC	CAA-CBA-CGA	-2.78	106.30	113.67
12	r7	201	CYC	CMB-C2B-C1B	2.78	127.54	124.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	OA	201	CYC	CHA-C4D-C3D	-2.78	121.25	127.22
12	N7	201	CYC	CHA-C4D-C3D	-2.78	121.25	127.22
12	O9	201	CYC	CHA-C4D-C3D	-2.78	121.25	127.22
12	J2	202	CYC	CBB-CAB-C3B	-2.78	104.89	112.42
12	EA	201	CYC	CHA-C4D-C3D	-2.78	121.25	127.22
12	f5	201	CYC	CHA-C4D-C3D	-2.78	121.25	127.22
12	E9	201	CYC	CHA-C4D-C3D	-2.78	121.25	127.22
12	B5	201	CYC	CMB-C2B-C1B	2.78	127.53	124.16
12	V5	201	CYC	CMB-C2B-C1B	2.78	127.53	124.16
12	B7	201	CYC	CHA-C4D-C3D	-2.77	121.26	127.22
12	H2	202	CYC	C1A-C2A-C3A	-2.77	103.72	106.73
12	H6	202	CYC	C1A-C2A-C3A	-2.77	103.72	106.73
12	RA	202	CYC	C1A-C2A-C3A	-2.77	103.73	106.73
12	R9	202	CYC	C1A-C2A-C3A	-2.77	103.73	106.73
12	Y3	201	CYC	CHA-C4D-C3D	-2.77	121.26	127.22
12	T4	201	CYC	CHA-C4D-C3D	-2.77	121.26	127.22
12	T8	201	CYC	CHA-C4D-C3D	-2.77	121.26	127.22
12	Y1	201	CYC	CHA-C4D-C3D	-2.77	121.26	127.22
12	R3	202	CYC	C1D-C2D-C3D	-2.77	104.29	107.76
12	h7	201	CYC	C2C-C1C-NC	2.77	110.59	108.29
12	L5	201	CYC	CAA-CBA-CGA	-2.77	106.31	113.67
12	k5	1201	CYC	C1B-C2B-C3B	-2.77	105.01	107.86
12	AA	201	CYC	C4D-C3D-C2D	-2.77	104.39	107.62
12	A9	201	CYC	C4D-C3D-C2D	-2.77	104.39	107.62
12	F5	201	CYC	CHA-C4D-C3D	-2.77	121.26	127.22
12	H3	201	CYC	C1A-C2A-C3A	-2.77	103.73	106.73
12	K3	201	CYC	CHA-C4D-C3D	-2.77	121.27	127.22
12	K1	201	CYC	CHA-C4D-C3D	-2.77	121.27	127.22
12	IA	201	CYC	CHA-C4D-C3D	-2.77	121.27	127.22
12	F5	201	CYC	CAA-CBA-CGA	-2.77	106.32	113.67
12	D5	201	CYC	CHA-C4D-C3D	-2.77	121.27	127.22
12	j5	1202	CYC	CAA-CBA-CGA	-2.77	106.32	113.67
12	L5	201	CYC	CHA-C4D-C3D	-2.77	121.27	127.22
12	J5	201	CYC	CHA-C4D-C3D	-2.77	121.27	127.22
12	k5	1202	CYC	CAA-CBA-CGA	-2.77	106.33	113.67
12	D2	202	CYC	C1A-C2A-C3A	-2.77	103.73	106.73
12	N4	201	CYC	C4D-C3D-C2D	-2.77	104.40	107.62
12	N8	201	CYC	C4D-C3D-C2D	-2.77	104.40	107.62
12	G6	201	CYC	C1B-C2B-C3B	-2.77	105.02	107.86
12	P5	201	CYC	CMB-C2B-C1B	2.76	127.52	124.16
12	T3	301	CYC	CBB-CAB-C3B	-2.76	104.93	112.42
12	D2	201	CYC	CBB-CAB-C3B	-2.76	104.93	112.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	U3	201	CYC	CHA-C4D-C3D	-2.76	121.28	127.22
12	U1	201	CYC	CHA-C4D-C3D	-2.76	121.28	127.22
12	k5	1204	CYC	CAA-CBA-CGA	-2.76	106.33	113.67
12	U3	201	CYC	C4D-C3D-C2D	-2.76	104.40	107.62
12	E4	201	CYC	C4D-C3D-C2D	-2.76	104.40	107.62
12	E8	201	CYC	C4D-C3D-C2D	-2.76	104.40	107.62
12	U1	201	CYC	C4D-C3D-C2D	-2.76	104.40	107.62
12	F9	302	CYC	C1D-C2D-C3D	-2.76	104.30	107.76
12	j5	1202	CYC	CMB-C2B-C1B	2.76	127.52	124.16
12	J7	201	CYC	CMB-C2B-C1B	2.76	127.52	124.16
12	J7	201	CYC	CHA-C4D-C3D	-2.76	121.28	127.22
12	G3	201	CYC	CHA-C4D-C3D	-2.76	121.28	127.22
12	G1	201	CYC	CHA-C4D-C3D	-2.76	121.28	127.22
12	V4	201	CYC	CHA-C4D-C3D	-2.76	121.28	127.22
12	D7	201	CYC	CHA-C4D-C3D	-2.76	121.28	127.22
12	V8	201	CYC	CHA-C4D-C3D	-2.76	121.28	127.22
12	B3	202	CYC	CBB-CAB-C3B	-2.76	104.94	112.42
12	K4	201	CYC	CHA-C4D-C3D	-2.76	121.29	127.22
12	K8	201	CYC	CHA-C4D-C3D	-2.76	121.29	127.22
12	QA	201	CYC	CHA-C4D-C3D	-2.76	121.29	127.22
12	T4	201	CYC	C4D-C3D-C2D	-2.76	104.41	107.62
12	T8	201	CYC	C4D-C3D-C2D	-2.76	104.41	107.62
12	H1	202	CYC	C1A-C2A-C3A	-2.76	103.74	106.73
12	HA	202	CYC	CBB-CAB-C3B	-2.76	104.94	112.42
12	N6	101	CYC	CBB-CAB-C3B	-2.76	104.94	112.42
12	f7	201	CYC	CAA-C2A-C1A	2.76	129.86	125.02
12	H4	201	CYC	CBB-CAB-C3B	-2.76	104.94	112.42
12	H8	201	CYC	CBB-CAB-C3B	-2.76	104.94	112.42
12	CA	201	CYC	C4D-C3D-C2D	-2.76	104.41	107.62
12	C9	201	CYC	C4D-C3D-C2D	-2.76	104.41	107.62
12	N5	201	CYC	CAA-CBA-CGA	-2.76	106.35	113.67
12	T1	301	CYC	CBB-CAB-C3B	-2.76	104.95	112.42
12	U8	202	CYC	C1A-C2A-C3A	-2.76	103.75	106.73
12	H7	201	CYC	CAA-CBA-CGA	-2.75	106.36	113.67
12	L3	201	CYC	C1A-C2A-C3A	-2.75	103.75	106.73
12	U4	202	CYC	C1A-C2A-C3A	-2.75	103.75	106.73
12	L1	201	CYC	C1A-C2A-C3A	-2.75	103.75	106.73
12	R4	201	CYC	C4D-C3D-C2D	-2.75	104.41	107.62
12	R8	201	CYC	C4D-C3D-C2D	-2.75	104.41	107.62
12	E6	201	CYC	CHA-C4D-C3D	-2.75	121.30	127.22
12	GA	201	CYC	C4D-C3D-C2D	-2.75	104.42	107.62
12	G9	201	CYC	C4D-C3D-C2D	-2.75	104.42	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	VA	201	CYC	CBB-CAB-C3B	-2.75	104.95	112.42
12	V3	202	CYC	C1D-C2D-C3D	-2.75	104.31	107.76
12	V1	202	CYC	C1D-C2D-C3D	-2.75	104.31	107.76
12	D7	201	CYC	CAA-CBA-CGA	-2.75	106.36	113.67
12	D7	201	CYC	C2C-C1C-NC	2.75	110.58	108.29
12	J4	201	CYC	CBB-CAB-C3B	-2.75	104.96	112.42
12	J8	201	CYC	CBB-CAB-C3B	-2.75	104.96	112.42
12	F2	202	CYC	C1D-C2D-C3D	-2.75	104.32	107.76
12	J7	201	CYC	C2C-C1C-NC	2.75	110.58	108.29
12	T7	201	CYC	C2C-C1C-NC	2.75	110.58	108.29
12	E2	201	CYC	CHA-C4D-C3D	-2.75	121.31	127.22
12	DA	202	CYC	C1A-C2A-C3A	-2.75	103.75	106.73
12	L5	201	CYC	C2C-C1C-NC	2.75	110.57	108.29
12	T5	201	CYC	C2C-C1C-NC	2.75	110.57	108.29
12	TA	301	CYC	CBB-CAB-C3B	-2.75	104.97	112.42
12	N2	101	CYC	CBB-CAB-C3B	-2.75	104.97	112.42
12	D6	201	CYC	CBB-CAB-C3B	-2.75	104.97	112.42
12	T9	301	CYC	CBB-CAB-C3B	-2.75	104.97	112.42
12	L5	201	CYC	CMB-C2B-C1B	2.75	127.50	124.16
12	B1	202	CYC	CBB-CAB-C3B	-2.75	104.97	112.42
12	P5	201	CYC	CAA-CBA-CGA	-2.75	106.38	113.67
12	V5	201	CYC	CAA-CBA-CGA	-2.75	106.38	113.67
12	F6	201	CYC	CBB-CAB-C3B	-2.75	104.97	112.42
12	H9	202	CYC	CBB-CAB-C3B	-2.75	104.97	112.42
12	k5	1202	CYC	CAA-C2A-C1A	2.75	129.84	125.02
12	D5	201	CYC	CAA-CBA-CGA	-2.75	106.38	113.67
12	J5	201	CYC	CAA-CBA-CGA	-2.75	106.38	113.67
12	T5	201	CYC	CAA-CBA-CGA	-2.75	106.38	113.67
12	J7	201	CYC	CAA-CBA-CGA	-2.75	106.38	113.67
12	W9	201	CYC	CHA-C4D-C3D	-2.74	121.32	127.22
12	k5	1201	CYC	C1D-C2D-C3D	-2.74	104.33	107.76
12	P4	201	CYC	CHA-C4D-C3D	-2.74	121.32	127.22
12	P8	201	CYC	CHA-C4D-C3D	-2.74	121.32	127.22
12	R5	201	CYC	CAA-C2A-C1A	2.74	129.84	125.02
12	V7	201	CYC	CAA-CBA-CGA	-2.74	106.39	113.67
12	Z8	301	CYC	CBB-CAB-C3B	-2.74	104.98	112.42
12	H5	201	CYC	CMB-C2B-C1B	2.74	127.49	124.16
12	BA	202	CYC	C1A-C2A-C3A	-2.74	103.76	106.73
12	B9	202	CYC	C1A-C2A-C3A	-2.74	103.76	106.73
12	F3	201	CYC	CBB-CAB-C3B	-2.74	104.99	112.42
12	R9	201	CYC	CBB-CAB-C3B	-2.74	104.99	112.42
12	V9	201	CYC	CBB-CAB-C3B	-2.74	104.99	112.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	YA	201	CYC	CHA-C4D-C3D	-2.74	121.33	127.22
12	Y9	201	CYC	CHA-C4D-C3D	-2.74	121.33	127.22
12	j5	1201	CYC	C1D-C2D-C3D	-2.74	104.33	107.76
12	X5	201	CYC	CAA-C2A-C1A	2.74	129.83	125.02
12	j7	201	CYC	CMB-C2B-C1B	2.74	127.49	124.16
12	DA	201	CYC	CBB-CAB-C3B	-2.74	105.00	112.42
12	D9	201	CYC	CBB-CAB-C3B	-2.74	105.00	112.42
12	F1	201	CYC	CBB-CAB-C3B	-2.74	105.00	112.42
12	B5	201	CYC	C2C-C1C-NC	2.74	110.56	108.29
12	j7	201	CYC	C2C-C1C-NC	2.74	110.56	108.29
12	U4	201	CYC	CBB-CAB-C3B	-2.74	105.00	112.42
12	O4	201	CYC	CBB-CAB-C3B	-2.74	105.00	112.42
12	U8	201	CYC	CBB-CAB-C3B	-2.74	105.00	112.42
12	O8	201	CYC	CBB-CAB-C3B	-2.74	105.00	112.42
12	WA	201	CYC	CHA-C4D-C3D	-2.74	121.34	127.22
12	Q9	201	CYC	CHA-C4D-C3D	-2.74	121.34	127.22
12	D6	202	CYC	C1A-C2A-C3A	-2.74	103.77	106.73
12	O3	201	CYC	C4A-C3A-C2A	-2.74	103.37	106.48
12	T5	201	CYC	CMB-C2B-C1B	2.74	127.49	124.16
12	b5	201	CYC	CHA-C4D-C3D	-2.74	121.34	127.22
12	Z	201	CYC	CAA-CBA-CGA	-2.74	106.41	113.67
12	F5	201	CYC	C2C-C1C-NC	2.73	110.56	108.29
12	PA	201	CYC	CBB-CAB-C3B	-2.73	105.01	112.42
12	RA	201	CYC	CBB-CAB-C3B	-2.73	105.01	112.42
12	P9	201	CYC	CBB-CAB-C3B	-2.73	105.01	112.42
12	A	201	CYC	CAA-CBA-CGA	-2.73	106.41	113.67
12	KA	201	CYC	CHA-C4D-C3D	-2.73	121.34	127.22
12	K9	201	CYC	CHA-C4D-C3D	-2.73	121.34	127.22
12	F9	303	CYC	C1D-C2D-C3D	-2.73	104.34	107.76
12	Z4	301	CYC	CBB-CAB-C3B	-2.73	105.01	112.42
12	C6	201	CYC	C4D-C3D-C2D	-2.73	104.44	107.62
12	C2	201	CYC	C4D-C3D-C2D	-2.73	104.44	107.62
12	k5	1203	CYC	CAA-CBA-CGA	-2.73	106.42	113.67
12	D3	202	CYC	CBB-CAB-C3B	-2.73	105.01	112.42
12	B7	201	CYC	CAA-CBA-CGA	-2.73	106.42	113.67
12	GA	201	CYC	CHA-C4D-C3D	-2.73	121.35	127.22
12	G9	201	CYC	CHA-C4D-C3D	-2.73	121.35	127.22
12	P7	201	CYC	CAA-CBA-CGA	-2.73	106.42	113.67
12	K5	201	CYC	CMB-C2B-C1B	2.73	127.48	124.16
12	R1	201	CYC	CBB-CAB-C3B	-2.73	105.02	112.42
12	R3	201	CYC	CBB-CAB-C3B	-2.73	105.02	112.42
12	N7	201	CYC	CAA-CBA-CGA	-2.73	106.42	113.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	FA	301	CYC	CBB-CAB-C3B	-2.73	105.02	112.42
12	F9	301	CYC	CBB-CAB-C3B	-2.73	105.02	112.42
12	E5	201	CYC	CMB-C2B-C1B	2.73	127.48	124.16
12	F4	202	CYC	CBB-CAB-C3B	-2.73	105.03	112.42
12	F2	201	CYC	CBB-CAB-C3B	-2.73	105.03	112.42
12	O4	202	CYC	C1D-C2D-C3D	-2.73	104.35	107.76
12	O8	202	CYC	C1D-C2D-C3D	-2.73	104.35	107.76
12	r7	201	CYC	CAA-CBA-CGA	-2.73	106.43	113.67
12	p7	201	CYC	CHA-C4D-C3D	-2.73	121.36	127.22
12	R7	201	CYC	C2C-C1C-NC	2.73	110.56	108.29
12	T7	201	CYC	CAA-CBA-CGA	-2.73	106.44	113.67
12	G3	201	CYC	C4D-C3D-C2D	-2.72	104.45	107.62
12	E6	201	CYC	C4D-C3D-C2D	-2.72	104.45	107.62
12	G1	201	CYC	C4D-C3D-C2D	-2.72	104.45	107.62
12	O1	201	CYC	C4A-C3A-C2A	-2.72	103.39	106.48
12	i7	201	CYC	CMB-C2B-C1B	2.72	127.47	124.16
12	ZA	202	CYC	CBB-CAB-C3B	-2.72	105.04	112.42
12	Z9	202	CYC	CBB-CAB-C3B	-2.72	105.04	112.42
12	j5	1201	CYC	C1B-C2B-C3B	-2.72	105.06	107.86
12	d5	201	CYC	CAA-CBA-CGA	-2.72	106.45	113.67
12	f7	201	CYC	C2C-C1C-NC	2.72	110.55	108.29
12	d7	201	CYC	CAA-CBA-CGA	-2.72	106.45	113.67
12	S4	202	CYC	CBB-CAB-C3B	-2.72	105.04	112.42
12	D4	202	CYC	CBB-CAB-C3B	-2.72	105.05	112.42
12	D8	202	CYC	CBB-CAB-C3B	-2.72	105.05	112.42
12	W8	201	CYC	CBB-CAB-C3B	-2.72	105.05	112.42
12	H2	202	CYC	C1D-C2D-C3D	-2.72	104.36	107.76
12	H6	202	CYC	C1D-C2D-C3D	-2.72	104.36	107.76
12	v7	201	CYC	CHA-C4D-C3D	-2.72	121.38	127.22
12	BA	201	CYC	CBB-CAB-C3B	-2.72	105.05	112.42
12	B9	201	CYC	CBB-CAB-C3B	-2.72	105.05	112.42
12	T4	201	CYC	C4A-C3A-C2A	-2.72	103.39	106.48
12	T8	201	CYC	C4A-C3A-C2A	-2.72	103.39	106.48
12	f5	201	CYC	CAA-CBA-CGA	-2.72	106.46	113.67
12	V3	202	CYC	C1A-C2A-C3A	-2.72	103.79	106.73
12	V1	202	CYC	C1A-C2A-C3A	-2.72	103.79	106.73
12	v7	201	CYC	CAA-CBA-CGA	-2.72	106.46	113.67
12	X1	201	CYC	CBB-CAB-C3B	-2.72	105.06	112.42
12	F8	202	CYC	CBB-CAB-C3B	-2.72	105.06	112.42
12	d5	201	CYC	CMB-C2B-C1B	2.72	127.46	124.16
12	K4	201	CYC	C4A-C3A-C2A	-2.72	103.39	106.48
12	EA	201	CYC	C4D-C3D-C2D	-2.72	104.46	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	E9	201	CYC	C4D-C3D-C2D	-2.72	104.46	107.62
12	Z5	201	CYC	CAA-CBA-CGA	-2.71	106.47	113.67
12	N5	201	CYC	CMB-C2B-C1B	2.71	127.46	124.16
12	K8	201	CYC	C4A-C3A-C2A	-2.71	103.40	106.48
12	D1	202	CYC	CBB-CAB-C3B	-2.71	105.06	112.42
12	aA	901	CYC	CBB-CAB-C3B	-2.71	105.06	112.42
12	N5	201	CYC	C2C-C1C-NC	2.71	110.55	108.29
12	N8	201	CYC	C4A-C3A-C2A	-2.71	103.40	106.48
12	W4	201	CYC	CBB-CAB-C3B	-2.71	105.06	112.42
12	p7	201	CYC	CAA-CBA-CGA	-2.71	106.47	113.67
12	X7	201	CYC	CAA-C2A-C1A	2.71	129.78	125.02
12	X3	201	CYC	CBB-CAB-C3B	-2.71	105.07	112.42
12	b7	201	CYC	CAA-CBA-CGA	-2.71	106.47	113.67
12	A4	201	CYC	C4D-C3D-C2D	-2.71	104.46	107.62
12	A8	201	CYC	C4D-C3D-C2D	-2.71	104.46	107.62
12	Q9	201	CYC	C4D-C3D-C2D	-2.71	104.46	107.62
12	E2	201	CYC	C4D-C3D-C2D	-2.71	104.46	107.62
12	M8	302	CYC	CBB-CAB-C3B	-2.71	105.07	112.42
12	JA	202	CYC	CBB-CAB-C3B	-2.71	105.07	112.42
12	J3	202	CYC	CBB-CAB-C3B	-2.71	105.07	112.42
12	J9	202	CYC	CBB-CAB-C3B	-2.71	105.07	112.42
12	H5	201	CYC	CAA-CBA-CGA	-2.71	106.47	113.67
12	L8	201	CYC	C1A-C2A-C3A	-2.71	103.79	106.73
12	C4	201	CYC	C4D-C3D-C2D	-2.71	104.47	107.62
12	C8	201	CYC	C4D-C3D-C2D	-2.71	104.47	107.62
12	F7	201	CYC	CAA-CBA-CGA	-2.71	106.48	113.67
12	D3	201	CYC	C1D-C2D-C3D	-2.71	104.37	107.76
12	D1	201	CYC	C1D-C2D-C3D	-2.71	104.37	107.76
12	X4	201	CYC	C4D-C3D-C2D	-2.71	104.47	107.62
12	X8	201	CYC	C4D-C3D-C2D	-2.71	104.47	107.62
12	k5	1201	CYC	C4D-CHA-C1A	2.71	134.13	128.22
12	K6	201	CYC	CHA-C4D-C3D	-2.71	121.40	127.22
12	p7	201	CYC	CAA-C2A-C1A	2.71	129.77	125.02
12	V8	201	CYC	C4D-C3D-C2D	-2.70	104.47	107.62
12	d7	201	CYC	CMB-C2B-C1B	2.70	127.45	124.16
12	o7	201	CYC	CMB-C2B-C1B	2.70	127.45	124.16
12	B8	202	CYC	CBB-CAB-C3B	-2.70	105.09	112.42
12	H6	201	CYC	CBB-CAB-C3B	-2.70	105.09	112.42
12	L7	201	CYC	C2C-C1C-NC	2.70	110.54	108.29
12	h7	201	CYC	CAA-CBA-CGA	-2.70	106.50	113.67
12	b5	201	CYC	CAA-CBA-CGA	-2.70	106.50	113.67
12	QA	201	CYC	C4D-C3D-C2D	-2.70	104.48	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	F7	201	CYC	C2C-C1C-NC	2.70	110.53	108.29
12	O7	201	CYC	CMB-C2B-C1B	2.70	127.44	124.16
12	m7	201	CYC	CMB-C2B-C1B	2.70	127.44	124.16
12	J5	201	CYC	CAA-C2A-C1A	2.70	129.76	125.02
12	K4	201	CYC	C4D-C3D-C2D	-2.70	104.48	107.62
12	K8	201	CYC	C4D-C3D-C2D	-2.70	104.48	107.62
12	N4	201	CYC	C4A-C3A-C2A	-2.70	103.41	106.48
12	Z5	201	CYC	C2C-C1C-NC	2.70	110.53	108.29
12	V7	201	CYC	C2C-C1C-NC	2.70	110.53	108.29
12	H2	201	CYC	CBB-CAB-C3B	-2.70	105.11	112.42
12	H7	201	CYC	C2C-C1C-NC	2.70	110.53	108.29
12	p7	201	CYC	C2C-C1C-NC	2.70	110.53	108.29
12	N4	201	CYC	CBD-CAD-C3D	-2.70	105.08	112.53
12	N8	201	CYC	CBD-CAD-C3D	-2.70	105.08	112.53
12	R5	201	CYC	C2C-C1C-NC	2.70	110.53	108.29
12	P1	201	CYC	CBB-CAB-C3B	-2.70	105.11	112.42
12	H3	202	CYC	CBB-CAB-C3B	-2.70	105.11	112.42
12	P3	201	CYC	CBB-CAB-C3B	-2.70	105.11	112.42
12	B5	201	CYC	CAA-CBA-CGA	-2.69	106.52	113.67
12	k5	1202	CYC	C2C-C1C-NC	2.69	110.53	108.29
12	B4	202	CYC	CBB-CAB-C3B	-2.69	105.12	112.42
12	ZA	201	CYC	C1A-C2A-C3A	-2.69	103.81	106.73
12	Z9	201	CYC	C1A-C2A-C3A	-2.69	103.81	106.73
12	K2	201	CYC	CHA-C4D-C3D	-2.69	121.43	127.22
12	L7	201	CYC	CAA-CBA-CGA	-2.69	106.52	113.67
12	K1	201	CYC	C4A-C3A-C2A	-2.69	103.42	106.48
12	Y3	201	CYC	C4D-C3D-C2D	-2.69	104.49	107.62
12	P4	201	CYC	C4D-C3D-C2D	-2.69	104.49	107.62
12	P8	201	CYC	C4D-C3D-C2D	-2.69	104.49	107.62
12	Y1	201	CYC	C4D-C3D-C2D	-2.69	104.49	107.62
12	T4	201	CYC	CBD-CAD-C3D	-2.69	105.09	112.53
12	T8	201	CYC	CBD-CAD-C3D	-2.69	105.09	112.53
12	Z5	201	CYC	CMB-C2B-C1B	2.69	127.43	124.16
12	U7	201	CYC	CMB-C2B-C1B	2.69	127.43	124.16
12	R7	201	CYC	CAA-CBA-CGA	-2.69	106.53	113.67
12	A1	201	CYC	C4A-C3A-C2A	-2.69	103.42	106.48
12	A3	201	CYC	C4A-C3A-C2A	-2.69	103.42	106.48
12	G2	201	CYC	C4A-C3A-C2A	-2.69	103.42	106.48
12	H1	201	CYC	CBB-CAB-C3B	-2.69	105.13	112.42
12	M8	301	CYC	CBB-CAB-C3B	-2.69	105.13	112.42
12	X7	201	CYC	CAA-CBA-CGA	-2.69	106.53	113.67
12	C3	201	CYC	C4D-C3D-C2D	-2.69	104.49	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	C1	201	CYC	C4D-C3D-C2D	-2.69	104.49	107.62
12	W7	201	CYC	CMB-C2B-C1B	2.69	127.43	124.16
12	d7	201	CYC	CAA-C2A-C1A	2.69	129.74	125.02
12	OA	201	CYC	C4D-C3D-C2D	-2.69	104.49	107.62
12	O9	201	CYC	C4D-C3D-C2D	-2.69	104.49	107.62
12	M4	301	CYC	CBB-CAB-C3B	-2.69	105.14	112.42
12	I3	201	CYC	C4A-C3A-C2A	-2.69	103.43	106.48
12	v7	201	CYC	C2C-C1C-NC	2.68	110.52	108.29
12	CA	201	CYC	C4A-C3A-C2A	-2.68	103.43	106.48
12	C9	201	CYC	C4A-C3A-C2A	-2.68	103.43	106.48
12	L7	201	CYC	CAA-C2A-C1A	2.68	129.73	125.02
12	e5	201	CYC	CMB-C2B-C1B	2.68	127.42	124.16
12	c7	201	CYC	CMB-C2B-C1B	2.68	127.42	124.16
12	h7	201	CYC	CAA-C2A-C1A	2.68	129.73	125.02
12	B7	201	CYC	C2C-C1C-NC	2.68	110.52	108.29
12	L4	202	CYC	CBB-CAB-C3B	-2.68	105.15	112.42
12	UA	201	CYC	CBD-CAD-C3D	-2.68	105.12	112.53
12	G2	201	CYC	CBD-CAD-C3D	-2.68	105.12	112.53
12	U9	201	CYC	CBD-CAD-C3D	-2.68	105.12	112.53
12	F7	201	CYC	CAA-C2A-C1A	2.68	129.73	125.02
12	b7	201	CYC	CAA-C2A-C1A	2.68	129.73	125.02
12	K3	201	CYC	C4A-C3A-C2A	-2.68	103.43	106.48
12	L6	201	CYC	CBB-CAB-C3B	-2.68	105.15	112.42
12	j7	201	CYC	CAA-CBA-CGA	-2.68	106.56	113.67
12	a9	901	CYC	CBB-CAB-C3B	-2.68	105.16	112.42
12	R7	201	CYC	CAA-C2A-C1A	2.68	129.72	125.02
12	L4	201	CYC	C1A-C2A-C3A	-2.68	103.83	106.73
12	P7	201	CYC	C2C-C1C-NC	2.68	110.52	108.29
12	j5	1201	CYC	C4D-CHA-C1A	2.68	134.07	128.22
12	Z3	201	CYC	CBB-CAB-C3B	-2.68	105.16	112.42
12	Z1	202	CYC	CBB-CAB-C3B	-2.68	105.16	112.42
12	S1	201	CYC	CBD-CAD-C3D	-2.68	105.13	112.53
12	S3	201	CYC	CBD-CAD-C3D	-2.68	105.13	112.53
12	A4	201	CYC	CBD-CAD-C3D	-2.68	105.13	112.53
12	A8	201	CYC	CBD-CAD-C3D	-2.68	105.13	112.53
12	X5	201	CYC	CAA-CBA-CGA	-2.68	106.56	113.67
12	I7	201	CYC	CMB-C2B-C1B	2.68	127.41	124.16
12	B7	201	CYC	CAA-C2A-C1A	2.68	129.72	125.02
12	V4	201	CYC	C4D-C3D-C2D	-2.67	104.51	107.62
12	F5	201	CYC	CAA-C2A-C1A	2.67	129.71	125.02
12	A1	201	CYC	CBD-CAD-C3D	-2.67	105.14	112.53
12	A3	201	CYC	CBD-CAD-C3D	-2.67	105.14	112.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	P5	201	CYC	CAA-C2A-C1A	2.67	129.71	125.02
12	LA	202	CYC	CBB-CAB-C3B	-2.67	105.17	112.42
12	L9	202	CYC	CBB-CAB-C3B	-2.67	105.17	112.42
12	O1	201	CYC	C2A-C1A-NA	2.67	113.83	110.04
12	O3	201	CYC	C2A-C1A-NA	2.67	113.83	110.04
12	D5	201	CYC	CAA-C2A-C1A	2.67	129.71	125.02
12	G6	201	CYC	C4A-C3A-C2A	-2.67	103.44	106.48
12	d7	201	CYC	C2C-C1C-NC	2.67	110.51	108.29
12	s7	201	CYC	CMB-C2B-C1B	2.67	127.41	124.16
12	G6	201	CYC	CBD-CAD-C3D	-2.67	105.15	112.53
12	J7	201	CYC	CAA-C2A-C1A	2.67	129.71	125.02
12	A6	201	CYC	CBD-CAD-C3D	-2.67	105.15	112.53
12	CA	201	CYC	CBD-CAD-C3D	-2.67	105.15	112.53
12	C9	201	CYC	CBD-CAD-C3D	-2.67	105.15	112.53
12	WA	201	CYC	C4D-C3D-C2D	-2.67	104.51	107.62
12	W9	201	CYC	C4D-C3D-C2D	-2.67	104.51	107.62
12	P4	201	CYC	CBD-CAD-C3D	-2.67	105.15	112.53
12	P8	201	CYC	CBD-CAD-C3D	-2.67	105.15	112.53
12	j7	201	CYC	CAA-C2A-C1A	2.67	129.71	125.02
12	I4	201	CYC	CBD-CAD-C3D	-2.67	105.15	112.53
12	I8	201	CYC	CBD-CAD-C3D	-2.67	105.15	112.53
12	R5	201	CYC	CAA-CBA-CGA	-2.67	106.59	113.67
12	v7	201	CYC	CAA-C2A-C1A	2.67	129.70	125.02
12	C4	201	CYC	CBD-CAD-C3D	-2.67	105.16	112.53
12	C8	201	CYC	CBD-CAD-C3D	-2.67	105.16	112.53
12	b5	201	CYC	CAA-C2A-C1A	2.67	129.70	125.02
12	K2	201	CYC	C4D-C3D-C2D	-2.67	104.52	107.62
12	Y3	201	CYC	CBD-CAD-C3D	-2.67	105.16	112.53
12	A	201	CYC	CAA-C2A-C1A	2.67	129.70	125.02
12	K3	201	CYC	C4D-C3D-C2D	-2.67	104.52	107.62
12	K1	201	CYC	C4D-C3D-C2D	-2.67	104.52	107.62
12	E7	201	CYC	CMB-C2B-C1B	2.67	127.40	124.16
12	I1	201	CYC	C4A-C3A-C2A	-2.67	103.45	106.48
12	f5	201	CYC	CAA-C2A-C1A	2.67	129.70	125.02
12	V3	201	CYC	CBB-CAB-C3B	-2.67	105.19	112.42
12	V1	201	CYC	CBB-CAB-C3B	-2.67	105.19	112.42
12	H7	201	CYC	CAA-C2A-C1A	2.66	129.70	125.02
12	Q1	201	CYC	CBD-CAD-C3D	-2.66	105.17	112.53
12	Q3	201	CYC	CBD-CAD-C3D	-2.66	105.17	112.53
12	S9	201	CYC	CBD-CAD-C3D	-2.66	105.17	112.53
12	L3	202	CYC	CBB-CAB-C3B	-2.66	105.20	112.42
12	aA	902	CYC	CBB-CAB-C3B	-2.66	105.20	112.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Q3	201	CYC	C4D-C3D-C2D	-2.66	104.52	107.62
12	L2	201	CYC	CBB-CAB-C3B	-2.66	105.20	112.42
12	EA	201	CYC	CBD-CAD-C3D	-2.66	105.17	112.53
12	E9	201	CYC	CBD-CAD-C3D	-2.66	105.17	112.53
12	E3	201	CYC	CBD-CAD-C3D	-2.66	105.17	112.53
12	E1	201	CYC	CBD-CAD-C3D	-2.66	105.17	112.53
12	a5	201	CYC	CMB-C2B-C1B	2.66	127.39	124.16
12	u7	201	CYC	CMB-C2B-C1B	2.66	127.39	124.16
12	M7	201	CYC	CMB-C2B-C1B	2.66	127.39	124.16
12	K2	201	CYC	C4A-C3A-C2A	-2.66	103.46	106.48
12	K6	201	CYC	C4A-C3A-C2A	-2.66	103.46	106.48
12	Q1	201	CYC	C4D-C3D-C2D	-2.66	104.53	107.62
12	K3	201	CYC	CBD-CAD-C3D	-2.66	105.18	112.53
12	K1	201	CYC	CBD-CAD-C3D	-2.66	105.18	112.53
12	G3	201	CYC	CBD-CAD-C3D	-2.66	105.18	112.53
12	G1	201	CYC	CBD-CAD-C3D	-2.66	105.18	112.53
12	d5	201	CYC	CAA-C2A-C1A	2.66	129.69	125.02
12	Y1	201	CYC	CBD-CAD-C3D	-2.66	105.19	112.53
12	GA	201	CYC	CBD-CAD-C3D	-2.66	105.19	112.53
12	G9	201	CYC	CBD-CAD-C3D	-2.66	105.19	112.53
12	C2	201	CYC	CBD-CAD-C3D	-2.65	105.19	112.53
12	X5	201	CYC	C2C-C1C-NC	2.65	110.50	108.29
12	X7	201	CYC	C2C-C1C-NC	2.65	110.50	108.29
12	AA	201	CYC	CBD-CAD-C3D	-2.65	105.20	112.53
12	A9	201	CYC	CBD-CAD-C3D	-2.65	105.20	112.53
12	C3	201	CYC	C2A-C1A-NA	2.65	113.80	110.04
12	C1	201	CYC	C2A-C1A-NA	2.65	113.80	110.04
12	SA	201	CYC	CBD-CAD-C3D	-2.65	105.20	112.53
12	A2	201	CYC	CBD-CAD-C3D	-2.65	105.20	112.53
12	O5	201	CYC	CMB-C2B-C1B	2.65	127.38	124.16
12	O1	201	CYC	CBD-CAD-C3D	-2.65	105.20	112.53
12	O3	201	CYC	CBD-CAD-C3D	-2.65	105.20	112.53
12	b5	201	CYC	C2C-C1C-NC	2.65	110.49	108.29
12	C3	201	CYC	CBD-CAD-C3D	-2.65	105.21	112.53
12	C1	201	CYC	CBD-CAD-C3D	-2.65	105.21	112.53
12	C6	201	CYC	CBD-CAD-C3D	-2.65	105.21	112.53
12	YA	201	CYC	CBD-CAD-C3D	-2.65	105.21	112.53
12	E6	201	CYC	CBD-CAD-C3D	-2.65	105.21	112.53
12	Y9	201	CYC	CBD-CAD-C3D	-2.65	105.21	112.53
12	E2	201	CYC	CBD-CAD-C3D	-2.65	105.21	112.53
12	A6	201	CYC	C4D-C3D-C2D	-2.65	104.54	107.62
12	A2	201	CYC	C4D-C3D-C2D	-2.65	104.54	107.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Z	201	CYC	C2C-C1C-NC	2.65	110.49	108.29
12	OA	201	CYC	CBD-CAD-C3D	-2.64	105.22	112.53
12	O9	201	CYC	CBD-CAD-C3D	-2.64	105.22	112.53
12	QA	201	CYC	CBD-CAD-C3D	-2.64	105.22	112.53
12	K6	201	CYC	C4D-C3D-C2D	-2.64	104.54	107.62
12	G4	201	CYC	C4A-C3A-C2A	-2.64	103.48	106.48
12	G8	201	CYC	C4A-C3A-C2A	-2.64	103.48	106.48
12	V5	201	CYC	CAA-C2A-C1A	2.64	129.66	125.02
12	I1	201	CYC	CBD-CAD-C3D	-2.64	105.23	112.53
12	KA	201	CYC	C4A-C3A-C2A	-2.64	103.48	106.48
12	K9	201	CYC	C4A-C3A-C2A	-2.64	103.48	106.48
12	X4	201	CYC	C4A-C3A-C2A	-2.64	103.48	106.48
12	X8	201	CYC	C4A-C3A-C2A	-2.64	103.48	106.48
12	P7	201	CYC	CAA-C2A-C1A	2.64	129.66	125.02
12	L5	201	CYC	CAA-C2A-C1A	2.64	129.65	125.02
12	C7	201	CYC	CMB-C2B-C1B	2.64	127.37	124.16
12	Y3	201	CYC	C4A-C3A-C2A	-2.64	103.48	106.48
12	Y1	201	CYC	C4A-C3A-C2A	-2.64	103.48	106.48
12	V7	201	CYC	CAA-C2A-C1A	2.64	129.65	125.02
12	W9	201	CYC	CBD-CAD-C3D	-2.64	105.24	112.53
12	U5	201	CYC	CMB-C2B-C1B	2.64	127.37	124.16
12	Q9	201	CYC	CBD-CAD-C3D	-2.64	105.24	112.53
12	YA	201	CYC	C4D-C3D-C2D	-2.64	104.55	107.62
12	Y9	201	CYC	C4D-C3D-C2D	-2.64	104.55	107.62
12	D7	201	CYC	CAA-C2A-C1A	2.64	129.65	125.02
12	KA	201	CYC	CBD-CAD-C3D	-2.64	105.24	112.53
12	K9	201	CYC	CBD-CAD-C3D	-2.64	105.24	112.53
12	Z5	201	CYC	CAA-C2A-C1A	2.64	129.65	125.02
12	U3	201	CYC	CBD-CAD-C3D	-2.64	105.24	112.53
12	U1	201	CYC	CBD-CAD-C3D	-2.64	105.24	112.53
12	E4	201	CYC	CBD-CAD-C3D	-2.64	105.24	112.53
12	E8	201	CYC	CBD-CAD-C3D	-2.64	105.24	112.53
12	CA	201	CYC	C2A-C1A-NA	2.64	113.78	110.04
12	E6	201	CYC	C2A-C1A-NA	2.64	113.78	110.04
12	C9	201	CYC	C2A-C1A-NA	2.64	113.78	110.04
12	W5	201	CYC	CMB-C2B-C1B	2.63	127.36	124.16
12	W1	201	CYC	CBD-CAD-C3D	-2.63	105.25	112.53
12	IA	201	CYC	CBD-CAD-C3D	-2.63	105.25	112.53
12	I9	201	CYC	CBD-CAD-C3D	-2.63	105.25	112.53
12	I3	201	CYC	CBD-CAD-C3D	-2.63	105.25	112.53
12	j5	1202	CYC	C2C-C1C-NC	2.63	110.48	108.29
12	Z	201	CYC	CAA-C2A-C1A	2.63	129.64	125.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	K8	201	CYC	CBD-CAD-C3D	-2.63	105.25	112.53
12	c5	201	CYC	CMB-C2B-C1B	2.63	127.36	124.16
12	A	201	CYC	C2C-C1C-NC	2.63	110.48	108.29
12	A7	201	CYC	CMB-C2B-C1B	2.63	127.36	124.16
12	A4	201	CYC	C4A-C3A-C2A	-2.63	103.49	106.48
12	A8	201	CYC	C4A-C3A-C2A	-2.63	103.49	106.48
12	T5	201	CYC	CAA-C2A-C1A	2.63	129.64	125.02
12	X4	201	CYC	CBD-CAD-C3D	-2.63	105.26	112.53
12	X8	201	CYC	CBD-CAD-C3D	-2.63	105.26	112.53
12	W3	201	CYC	CBD-CAD-C3D	-2.63	105.27	112.53
12	K4	201	CYC	CBD-CAD-C3D	-2.63	105.27	112.53
12	I6	201	CYC	C4D-C3D-C2D	-2.63	104.56	107.62
12	I2	201	CYC	CBD-CAD-C3D	-2.63	105.27	112.53
12	I6	201	CYC	CBD-CAD-C3D	-2.63	105.27	112.53
12	WA	201	CYC	CBD-CAD-C3D	-2.63	105.27	112.53
12	I2	201	CYC	C4D-C3D-C2D	-2.62	104.57	107.62
12	K7	201	CYC	CMB-C2B-C1B	2.62	127.35	124.16
12	I6	201	CYC	C2A-C1A-NA	2.62	113.76	110.04
12	Y5	201	CYC	CMB-C2B-C1B	2.62	127.35	124.16
12	X4	201	CYC	C2A-C1A-NA	2.62	113.75	110.04
12	X8	201	CYC	C2A-C1A-NA	2.62	113.75	110.04
12	N7	201	CYC	C2C-C1C-NC	2.62	110.47	108.29
12	f5	201	CYC	C2C-C1C-NC	2.62	110.47	108.29
12	N7	201	CYC	CAA-C2A-C1A	2.62	129.61	125.02
12	V4	201	CYC	CBD-CAD-C3D	-2.62	105.30	112.53
12	V8	201	CYC	CBD-CAD-C3D	-2.62	105.30	112.53
12	r7	201	CYC	CAA-C2A-C1A	2.62	129.61	125.02
12	N5	201	CYC	CAA-C2A-C1A	2.61	129.61	125.02
12	R4	201	CYC	CBD-CAD-C3D	-2.61	105.31	112.53
12	R8	201	CYC	CBD-CAD-C3D	-2.61	105.31	112.53
12	P4	201	CYC	C4A-C3A-C2A	-2.61	103.51	106.48
12	P8	201	CYC	C4A-C3A-C2A	-2.61	103.51	106.48
12	A1	201	CYC	C2A-C1A-NA	2.61	113.74	110.04
12	A3	201	CYC	C2A-C1A-NA	2.61	113.74	110.04
12	A6	201	CYC	C2A-C1A-NA	2.61	113.74	110.04
12	A2	201	CYC	C2A-C1A-NA	2.61	113.74	110.04
12	YA	201	CYC	C4A-C3A-C2A	-2.61	103.51	106.48
12	Y9	201	CYC	C4A-C3A-C2A	-2.61	103.51	106.48
12	S5	201	CYC	CMB-C2B-C1B	2.61	127.33	124.16
12	C6	201	CYC	C4A-C3A-C2A	-2.61	103.52	106.48
12	E2	201	CYC	C2A-C1A-NA	2.61	113.74	110.04
12	M5	201	CYC	CMB-C2B-C1B	2.61	127.33	124.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	AA	201	CYC	C4A-C3A-C2A	-2.61	103.52	106.48
12	A9	201	CYC	C4A-C3A-C2A	-2.61	103.52	106.48
12	V4	201	CYC	C2A-C1A-NA	2.60	113.73	110.04
12	Q7	201	CYC	CMB-C2B-C1B	2.60	127.32	124.16
12	G4	201	CYC	CBD-CAD-C3D	-2.60	105.35	112.53
12	G8	201	CYC	CBD-CAD-C3D	-2.60	105.35	112.53
12	K2	201	CYC	CBD-CAD-C3D	-2.60	105.35	112.53
12	SA	201	CYC	C2A-C1A-NA	2.60	113.72	110.04
12	WA	201	CYC	C2A-C1A-NA	2.60	113.72	110.04
12	S9	201	CYC	C2A-C1A-NA	2.60	113.72	110.04
12	W9	201	CYC	C2A-C1A-NA	2.60	113.72	110.04
12	T7	201	CYC	CAA-C2A-C1A	2.59	129.57	125.02
12	k5	1203	CYC	CAA-C2A-C1A	2.59	129.57	125.02
12	I4	201	CYC	C2A-C1A-NA	2.59	113.72	110.04
12	I8	201	CYC	C2A-C1A-NA	2.59	113.72	110.04
12	R8	201	CYC	C2A-C1A-NA	2.59	113.72	110.04
12	E4	201	CYC	C2A-C1A-NA	2.59	113.71	110.04
12	G7	201	CYC	CMB-C2B-C1B	2.59	127.31	124.16
12	Y5	201	CYC	C2C-C1C-NC	2.59	110.44	108.29
12	T4	201	CYC	C2A-C1A-NA	2.59	113.71	110.04
12	T8	201	CYC	C2A-C1A-NA	2.59	113.71	110.04
12	Q5	201	CYC	CMB-C2B-C1B	2.59	127.30	124.16
12	O9	201	CYC	C4A-C3A-C2A	-2.58	103.54	106.48
12	K6	201	CYC	CBD-CAD-C3D	-2.58	105.39	112.53
12	k5	1204	CYC	CAA-C2A-C1A	2.58	129.55	125.02
12	R4	201	CYC	C2A-C1A-NA	2.58	113.70	110.04
12	G5	201	CYC	CMB-C2B-C1B	2.58	127.30	124.16
12	AA	201	CYC	C2A-C1A-NA	2.58	113.70	110.04
12	A9	201	CYC	C2A-C1A-NA	2.58	113.70	110.04
12	Q9	201	CYC	C4A-C3A-C2A	-2.58	103.55	106.48
12	QA	201	CYC	C4A-C3A-C2A	-2.58	103.55	106.48
12	A2	201	CYC	C4A-C3A-C2A	-2.58	103.55	106.48
12	OA	201	CYC	C2A-C1A-NA	2.58	113.70	110.04
12	V8	201	CYC	C2A-C1A-NA	2.58	113.70	110.04
12	N4	201	CYC	C2A-C1A-NA	2.58	113.69	110.04
12	K9	201	CYC	C4D-C3D-C2D	-2.58	104.62	107.62
12	j5	1202	CYC	CAA-C2A-C1A	2.58	129.55	125.02
12	I2	201	CYC	C2A-C1A-NA	2.58	113.69	110.04
12	K8	201	CYC	C2A-C1A-NA	2.58	113.69	110.04
12	Y7	201	CYC	CMB-C2B-C1B	2.58	127.29	124.16
12	LA	202	CYC	CAA-C2A-C1A	2.58	129.54	125.02
12	L9	202	CYC	CAA-C2A-C1A	2.58	129.54	125.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G3	201	CYC	C4A-C3A-C2A	-2.58	103.55	106.48
12	I6	201	CYC	C4A-C3A-C2A	-2.58	103.55	106.48
12	H5	201	CYC	CAA-C2A-C1A	2.58	129.54	125.02
12	L4	202	CYC	C1A-C2A-C3A	-2.57	103.94	106.73
12	k5	1203	CYC	C4A-C3A-C2A	-2.57	103.56	106.48
12	A5	201	CYC	CMB-C2B-C1B	2.57	127.28	124.16
12	e7	201	CYC	CMB-C2B-C1B	2.57	127.28	124.16
12	OA	201	CYC	C4A-C3A-C2A	-2.57	103.56	106.48
12	I2	201	CYC	C4A-C3A-C2A	-2.57	103.56	106.48
12	G1	201	CYC	C4A-C3A-C2A	-2.57	103.56	106.48
12	L6	201	CYC	C2A-C1A-NA	2.57	113.68	110.04
12	A6	201	CYC	C4A-C3A-C2A	-2.56	103.57	106.48
12	Q1	201	CYC	C2A-C1A-NA	2.56	113.67	110.04
12	Q3	201	CYC	C2A-C1A-NA	2.56	113.67	110.04
12	E8	201	CYC	C2A-C1A-NA	2.56	113.67	110.04
12	B5	201	CYC	CAA-C2A-C1A	2.56	129.52	125.02
12	a9	901	CYC	C1A-C2A-C3A	-2.56	103.95	106.73
12	KA	201	CYC	C4D-C3D-C2D	-2.56	104.64	107.62
12	L2	201	CYC	C2A-C1A-NA	2.56	113.67	110.04
12	C2	201	CYC	C4A-C3A-C2A	-2.56	103.57	106.48
12	R9	201	CYC	CAA-C2A-C1A	2.56	129.51	125.02
12	UA	201	CYC	C4A-C3A-C2A	-2.56	103.57	106.48
12	Q1	201	CYC	C4A-C3A-C2A	-2.56	103.58	106.48
12	Q3	201	CYC	C4A-C3A-C2A	-2.56	103.58	106.48
12	N8	201	CYC	C2A-C1A-NA	2.55	113.66	110.04
12	S1	201	CYC	C4A-C3A-C2A	-2.55	103.58	106.48
12	S3	201	CYC	C4A-C3A-C2A	-2.55	103.58	106.48
12	E3	201	CYC	C2A-C1A-NA	2.55	113.66	110.04
12	E1	201	CYC	C2A-C1A-NA	2.55	113.66	110.04
12	K4	201	CYC	C2A-C1A-NA	2.55	113.66	110.04
12	C3	201	CYC	C4A-C3A-C2A	-2.55	103.58	106.48
12	C1	201	CYC	C4A-C3A-C2A	-2.55	103.58	106.48
12	O9	201	CYC	C2A-C1A-NA	2.55	113.66	110.04
12	K2	201	CYC	C2A-C1A-NA	2.55	113.66	110.04
12	F2	201	CYC	C1A-C2A-C3A	-2.55	103.97	106.73
12	QA	201	CYC	C2A-C1A-NA	2.55	113.66	110.04
12	q7	201	CYC	CMB-C2B-C1B	2.55	127.26	124.16
12	Z3	201	CYC	C1A-C2A-C3A	-2.55	103.97	106.73
12	Z1	202	CYC	C1A-C2A-C3A	-2.55	103.97	106.73
12	W3	201	CYC	C2A-C1A-NA	2.55	113.65	110.04
12	W1	201	CYC	C2A-C1A-NA	2.55	113.65	110.04
12	E3	201	CYC	C4A-C3A-C2A	-2.55	103.58	106.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	E1	201	CYC	C4A-C3A-C2A	-2.55	103.58	106.48
12	K6	201	CYC	C2A-C1A-NA	2.55	113.65	110.04
12	LA	202	CYC	C1A-C2A-C3A	-2.55	103.97	106.73
12	L9	202	CYC	C1A-C2A-C3A	-2.55	103.97	106.73
12	E4	201	CYC	C4A-C3A-C2A	-2.55	103.58	106.48
12	BA	201	CYC	CAA-C2A-C1A	2.55	129.49	125.02
12	B9	201	CYC	CAA-C2A-C1A	2.55	129.49	125.02
12	A1	201	CYC	CAC-C3C-C4C	2.55	119.21	112.67
12	A3	201	CYC	CAC-C3C-C4C	2.55	119.21	112.67
12	R4	201	CYC	C4A-C3A-C2A	-2.54	103.59	106.48
12	RA	201	CYC	CAA-C2A-C1A	2.54	129.48	125.02
12	H4	201	CYC	CAA-C2A-C1A	2.54	129.48	125.02
12	H8	201	CYC	CAA-C2A-C1A	2.54	129.48	125.02
12	Q9	201	CYC	C2A-C1A-NA	2.54	113.64	110.04
12	r7	201	CYC	C4A-C3A-C2A	-2.54	103.59	106.48
12	V5	201	CYC	C4A-C3A-C2A	-2.54	103.59	106.48
12	CA	201	CYC	CHB-C4A-NA	-2.54	119.47	124.95
12	L4	202	CYC	C2A-C1A-NA	2.54	113.64	110.04
12	Q9	201	CYC	CHB-C4A-NA	-2.54	119.47	124.95
12	HA	202	CYC	C1A-C2A-C3A	-2.54	103.98	106.73
12	U9	201	CYC	C4A-C3A-C2A	-2.54	103.60	106.48
12	R8	201	CYC	C4A-C3A-C2A	-2.54	103.60	106.48
12	V5	201	CYC	C2C-C1C-NC	2.53	110.39	108.29
12	c5	201	CYC	C2C-C1C-NC	2.53	110.39	108.29
12	X1	201	CYC	CAA-C2A-C1A	2.53	129.47	125.02
12	J4	201	CYC	CAA-C2A-C1A	2.53	129.46	125.02
12	J8	201	CYC	CAA-C2A-C1A	2.53	129.46	125.02
12	U3	201	CYC	C4A-C3A-C2A	-2.53	103.61	106.48
12	U1	201	CYC	C4A-C3A-C2A	-2.53	103.61	106.48
12	HA	202	CYC	CAA-C2A-C1A	2.53	129.46	125.02
12	C9	201	CYC	CHB-C4A-NA	-2.53	119.49	124.95
12	Y3	201	CYC	C2A-C1A-NA	2.53	113.62	110.04
12	Y1	201	CYC	C2A-C1A-NA	2.53	113.62	110.04
12	G2	201	CYC	C2A-C1A-NA	2.53	113.62	110.04
12	G6	201	CYC	C2A-C1A-NA	2.53	113.62	110.04
12	S7	201	CYC	CMB-C2B-C1B	2.53	127.23	124.16
12	K2	201	CYC	CHB-C4A-NA	-2.53	119.50	124.95
12	UA	201	CYC	C2A-C1A-NA	2.53	113.62	110.04
12	U9	201	CYC	C2A-C1A-NA	2.53	113.62	110.04
12	S4	202	CYC	CAA-C2A-C1A	2.53	129.45	125.02
12	M4	301	CYC	CAA-C2A-C1A	2.53	129.45	125.02
12	P5	201	CYC	C4A-C3A-C2A	-2.52	103.61	106.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	YA	201	CYC	C2A-C1A-NA	2.52	113.62	110.04
12	Y9	201	CYC	C2A-C1A-NA	2.52	113.62	110.04
12	k5	1204	CYC	C2C-C1C-NC	2.52	110.39	108.29
12	D6	201	CYC	CAA-C2A-C1A	2.52	129.45	125.02
12	M8	301	CYC	CAA-C2A-C1A	2.52	129.45	125.02
12	IA	201	CYC	C4A-C3A-C2A	-2.52	103.61	106.48
12	I9	201	CYC	C4A-C3A-C2A	-2.52	103.61	106.48
12	U3	201	CYC	C2A-C1A-NA	2.52	113.61	110.04
12	U1	201	CYC	C2A-C1A-NA	2.52	113.61	110.04
12	k7	201	CYC	CMB-C2B-C1B	2.52	127.22	124.16
12	a9	901	CYC	C2A-C1A-NA	2.52	113.61	110.04
12	K2	201	CYC	CAC-C3C-C4C	2.52	119.14	112.67
12	K6	201	CYC	CHB-C4A-NA	-2.52	119.51	124.95
12	A2	201	CYC	CAC-C3C-C4C	2.52	119.14	112.67
12	W1	201	CYC	CAC-C3C-C4C	2.52	119.14	112.67
12	QA	201	CYC	CHB-C4A-NA	-2.52	119.52	124.95
12	X3	201	CYC	CAA-C2A-C1A	2.52	129.44	125.02
12	H9	202	CYC	CAA-C2A-C1A	2.52	129.44	125.02
12	C2	201	CYC	CHB-C4A-NA	-2.52	119.52	124.95
12	q7	201	CYC	C2C-C1C-NC	2.52	110.38	108.29
12	E8	201	CYC	C4A-C3A-C2A	-2.52	103.62	106.48
12	W1	201	CYC	C4A-C3A-C2A	-2.51	103.62	106.48
12	M8	302	CYC	CAA-C2A-C1A	2.51	129.43	125.02
12	A6	201	CYC	CAC-C3C-C4C	2.51	119.12	112.67
12	V3	201	CYC	C2A-C1A-NA	2.51	113.60	110.04
12	V1	201	CYC	C2A-C1A-NA	2.51	113.60	110.04
12	VA	201	CYC	C1A-C2A-C3A	-2.51	104.01	106.73
12	C4	201	CYC	C4A-C3A-C2A	-2.51	103.63	106.48
12	C8	201	CYC	C4A-C3A-C2A	-2.51	103.63	106.48
12	C4	201	CYC	C2A-C1A-NA	2.51	113.60	110.04
12	C8	201	CYC	C2A-C1A-NA	2.51	113.60	110.04
12	OA	201	CYC	CAC-C3C-C4C	2.51	119.12	112.67
12	O9	201	CYC	CAC-C3C-C4C	2.51	119.12	112.67
12	W3	201	CYC	C4A-C3A-C2A	-2.51	103.63	106.48
12	T3	301	CYC	C1A-C2A-C3A	-2.51	104.01	106.73
12	T1	301	CYC	C1A-C2A-C3A	-2.51	104.01	106.73
12	H6	201	CYC	CAA-C2A-C1A	2.51	129.43	125.02
12	a9	901	CYC	CAA-C2A-C1A	2.51	129.42	125.02
12	L4	202	CYC	CAA-C2A-C1A	2.51	129.42	125.02
12	A4	201	CYC	C2A-C1A-NA	2.51	113.59	110.04
12	A8	201	CYC	C2A-C1A-NA	2.51	113.59	110.04
12	W3	201	CYC	CAC-C3C-C4C	2.51	119.11	112.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G4	201	CYC	CAC-C3C-C4C	2.51	119.11	112.67
12	G8	201	CYC	CAC-C3C-C4C	2.51	119.11	112.67
12	D2	201	CYC	CAA-C2A-C1A	2.51	129.42	125.02
12	K6	201	CYC	CAC-C3C-C4C	2.51	119.11	112.67
12	M8	301	CYC	C2A-C1A-NA	2.50	113.59	110.04
12	N2	101	CYC	CAA-C2A-C1A	2.50	129.42	125.02
12	N6	101	CYC	CAA-C2A-C1A	2.50	129.42	125.02
12	aA	901	CYC	CAA-C2A-C1A	2.50	129.42	125.02
12	C1	201	CYC	CHB-C4A-NA	-2.50	119.55	124.95
12	IA	201	CYC	C2A-C1A-NA	2.50	113.59	110.04
12	LA	202	CYC	C2A-C1A-NA	2.50	113.59	110.04
12	P4	201	CYC	C2A-C1A-NA	2.50	113.59	110.04
12	P8	201	CYC	C2A-C1A-NA	2.50	113.59	110.04
12	L9	202	CYC	C2A-C1A-NA	2.50	113.59	110.04
12	I9	201	CYC	C2A-C1A-NA	2.50	113.59	110.04
12	L6	201	CYC	C1A-C2A-C3A	-2.50	104.02	106.73
12	TA	301	CYC	CAA-C2A-C1A	2.50	129.41	125.02
12	T9	301	CYC	CAA-C2A-C1A	2.50	129.41	125.02
12	I1	201	CYC	C2A-C1A-NA	2.50	113.59	110.04
12	GA	201	CYC	C4A-C3A-C2A	-2.50	103.64	106.48
12	G9	201	CYC	C4A-C3A-C2A	-2.50	103.64	106.48
12	M8	301	CYC	C1A-C2A-C3A	-2.50	104.02	106.73
12	EA	201	CYC	C2A-C1A-NA	2.50	113.59	110.04
12	S1	201	CYC	C2A-C1A-NA	2.50	113.59	110.04
12	Q1	201	CYC	CAC-C3C-C4C	2.50	119.10	112.67
12	Q3	201	CYC	CAC-C3C-C4C	2.50	119.10	112.67
12	H2	201	CYC	CAA-C2A-C1A	2.50	129.41	125.02
12	KA	201	CYC	C2A-C1A-NA	2.50	113.58	110.04
12	K9	201	CYC	C2A-C1A-NA	2.50	113.58	110.04
12	K4	201	CYC	CAC-C3C-C4C	2.50	119.09	112.67
12	K8	201	CYC	CAC-C3C-C4C	2.50	119.09	112.67
12	YA	201	CYC	CAC-C3C-C4C	2.50	119.09	112.67
12	Y9	201	CYC	CAC-C3C-C4C	2.50	119.09	112.67
12	YA	201	CYC	CHB-C4A-NA	-2.50	119.56	124.95
12	Y9	201	CYC	CHB-C4A-NA	-2.50	119.56	124.95
12	S3	201	CYC	C2A-C1A-NA	2.50	113.58	110.04
12	H4	201	CYC	C2A-C1A-NA	2.50	113.58	110.04
12	H8	201	CYC	C2A-C1A-NA	2.50	113.58	110.04
12	L2	201	CYC	C1A-C2A-C3A	-2.50	104.02	106.73
12	I3	201	CYC	C2A-C1A-NA	2.50	113.58	110.04
12	F9	301	CYC	C1A-C2A-C3A	-2.50	104.03	106.73
12	XA	201	CYC	CAA-C2A-C1A	2.49	129.40	125.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	KA	201	CYC	CAC-C3C-C4C	2.49	119.08	112.67
12	SA	201	CYC	CAC-C3C-C4C	2.49	119.08	112.67
12	O1	201	CYC	CAC-C3C-C4C	2.49	119.08	112.67
12	O3	201	CYC	CAC-C3C-C4C	2.49	119.08	112.67
12	K9	201	CYC	CAC-C3C-C4C	2.49	119.08	112.67
12	S9	201	CYC	CAC-C3C-C4C	2.49	119.08	112.67
12	X4	201	CYC	CAC-C3C-C4C	2.49	119.08	112.67
12	X8	201	CYC	CAC-C3C-C4C	2.49	119.08	112.67
12	V3	201	CYC	CAA-C2A-C1A	2.49	129.40	125.02
12	X9	201	CYC	CAA-C2A-C1A	2.49	129.40	125.02
12	V1	201	CYC	CAA-C2A-C1A	2.49	129.40	125.02
12	C6	201	CYC	CHB-C4A-NA	-2.49	119.57	124.95
12	Z	201	CYC	C4A-C3A-C2A	-2.49	103.65	106.48
12	BA	201	CYC	C2A-C1A-NA	2.49	113.57	110.04
12	B9	201	CYC	C2A-C1A-NA	2.49	113.57	110.04
12	Q9	201	CYC	CAC-C3C-C4C	2.49	119.07	112.67
12	M7	201	CYC	C2C-C1C-NC	2.49	110.36	108.29
12	B4	202	CYC	CAA-C2A-C1A	2.49	129.39	125.02
12	E9	201	CYC	C4A-C3A-C2A	-2.49	103.65	106.48
12	K3	201	CYC	CHB-C4A-NA	-2.49	119.57	124.95
12	K1	201	CYC	CHB-C4A-NA	-2.49	119.57	124.95
12	V4	201	CYC	CAC-C3C-C4C	2.49	119.07	112.67
12	V8	201	CYC	CAC-C3C-C4C	2.49	119.07	112.67
12	I5	201	CYC	CHB-C1B-C2B	-2.49	122.00	126.97
12	P5	201	CYC	C2C-C1C-NC	2.49	110.36	108.29
12	A2	201	CYC	CHB-C4A-NA	-2.49	119.58	124.95
12	PA	201	CYC	CAA-C2A-C1A	2.49	129.39	125.02
12	P9	201	CYC	CAA-C2A-C1A	2.49	129.39	125.02
12	I3	201	CYC	CAC-C3C-C4C	2.49	119.07	112.67
12	I1	201	CYC	CAC-C3C-C4C	2.49	119.07	112.67
12	C3	201	CYC	CHB-C4A-NA	-2.49	119.58	124.95
12	J3	202	CYC	CAA-C2A-C1A	2.49	129.39	125.02
12	H2	201	CYC	C1A-C2A-C3A	-2.49	104.03	106.73
12	FA	301	CYC	C1A-C2A-C3A	-2.49	104.04	106.73
12	QA	201	CYC	CAC-C3C-C4C	2.49	119.06	112.67
12	WA	201	CYC	C4A-C3A-C2A	-2.49	103.66	106.48
12	H6	201	CYC	C1A-C2A-C3A	-2.49	104.04	106.73
12	a7	201	CYC	C2C-C1C-NC	2.49	110.36	108.29
12	E6	201	CYC	C4A-C3A-C2A	-2.49	103.66	106.48
12	P4	201	CYC	CAC-C3C-C4C	2.48	119.05	112.67
12	M4	301	CYC	C2A-C1A-NA	2.48	113.56	110.04
12	J7	201	CYC	C4A-C3A-C2A	-2.48	103.66	106.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G3	201	CYC	CHB-C4A-NA	-2.48	119.59	124.95
12	G1	201	CYC	CHB-C4A-NA	-2.48	119.59	124.95
12	N2	101	CYC	C1A-C2A-C3A	-2.48	104.04	106.73
12	N6	101	CYC	C1A-C2A-C3A	-2.48	104.04	106.73
12	C5	201	CYC	CHB-C1B-C2B	-2.48	122.02	126.97
12	C6	201	CYC	CAC-C3C-C4C	2.48	119.05	112.67
12	OA	201	CYC	CHB-C4A-NA	-2.48	119.59	124.95
12	O9	201	CYC	CHB-C4A-NA	-2.48	119.59	124.95
12	IA	201	CYC	CAC-C3C-C4C	2.48	119.05	112.67
12	I9	201	CYC	CAC-C3C-C4C	2.48	119.05	112.67
12	G3	201	CYC	C2A-C1A-NA	2.48	113.56	110.04
12	F9	301	CYC	C2A-C1A-NA	2.48	113.56	110.04
12	G1	201	CYC	C2A-C1A-NA	2.48	113.56	110.04
12	C8	201	CYC	CHB-C4A-NA	-2.48	119.59	124.95
12	F9	301	CYC	CAA-C2A-C1A	2.48	129.37	125.02
12	W4	202	CYC	O2D-CGD-CBD	2.48	121.83	114.00
12	K4	201	CYC	CHB-C4A-NA	-2.48	119.60	124.95
12	K8	201	CYC	CHB-C4A-NA	-2.48	119.60	124.95
12	k7	201	CYC	C2C-C1C-NC	2.48	110.35	108.29
12	B8	202	CYC	CAA-C2A-C1A	2.48	129.37	125.02
12	V4	201	CYC	C4A-C3A-C2A	-2.48	103.66	106.48
12	I4	201	CYC	C4A-C3A-C2A	-2.48	103.66	106.48
12	I8	201	CYC	C4A-C3A-C2A	-2.48	103.66	106.48
12	E8	201	CYC	CAC-C3C-C4C	2.48	119.04	112.67
12	N8	201	CYC	CAC-C3C-C4C	2.48	119.03	112.67
12	A	201	CYC	C4A-C3A-C2A	-2.48	103.67	106.48
12	W9	201	CYC	C4A-C3A-C2A	-2.48	103.67	106.48
12	I6	201	CYC	CHB-C4A-NA	-2.48	119.61	124.95
12	X3	201	CYC	C1A-C2A-C3A	-2.48	104.05	106.73
12	V9	201	CYC	C1A-C2A-C3A	-2.48	104.05	106.73
12	E9	201	CYC	C2A-C1A-NA	2.48	113.55	110.04
12	VA	201	CYC	CAA-C2A-C1A	2.48	129.37	125.02
12	Z3	201	CYC	CAA-C2A-C1A	2.48	129.37	125.02
12	Z1	202	CYC	CAA-C2A-C1A	2.48	129.37	125.02
12	C2	201	CYC	CAC-C3C-C4C	2.47	119.03	112.67
12	g7	201	CYC	C2C-C1C-NC	2.47	110.35	108.29
12	FA	301	CYC	CAA-C2A-C1A	2.47	129.36	125.02
12	C4	201	CYC	CHB-C4A-NA	-2.47	119.61	124.95
12	A4	201	CYC	CAC-C3C-C4C	2.47	119.02	112.67
12	A8	201	CYC	CAC-C3C-C4C	2.47	119.02	112.67
12	W8	202	CYC	O2D-CGD-CBD	2.47	121.81	114.00
12	AA	201	CYC	CHB-C4A-NA	-2.47	119.62	124.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	P8	201	CYC	CAC-C3C-C4C	2.47	119.02	112.67
12	D5	201	CYC	C2C-C1C-NC	2.47	110.34	108.29
12	C3	201	CYC	CAC-C3C-C4C	2.47	119.02	112.67
12	E4	201	CYC	CAC-C3C-C4C	2.47	119.02	112.67
12	C1	201	CYC	CAC-C3C-C4C	2.47	119.02	112.67
12	WA	201	CYC	CAC-C3C-C4C	2.47	119.02	112.67
12	W9	201	CYC	CAC-C3C-C4C	2.47	119.02	112.67
12	F6	201	CYC	CAA-C2A-C1A	2.47	129.36	125.02
12	J3	202	CYC	C1A-C2A-C3A	-2.47	104.05	106.73
12	X1	201	CYC	C1A-C2A-C3A	-2.47	104.05	106.73
12	B9	201	CYC	C1A-C2A-C3A	-2.47	104.06	106.73
12	L3	202	CYC	CAA-C2A-C1A	2.47	129.35	125.02
12	aA	902	CYC	CAA-C2A-C1A	2.47	129.35	125.02
12	BA	201	CYC	C1A-C2A-C3A	-2.47	104.06	106.73
12	A1	201	CYC	CHB-C4A-NA	-2.47	119.62	124.95
12	A3	201	CYC	CHB-C4A-NA	-2.47	119.62	124.95
12	Z3	201	CYC	C2A-C1A-NA	2.47	113.54	110.04
12	Z1	202	CYC	C2A-C1A-NA	2.47	113.54	110.04
12	H9	202	CYC	C1A-C2A-C3A	-2.47	104.06	106.73
12	D1	201	CYC	O2D-CGD-CBD	2.47	121.79	114.00
12	Z9	201	CYC	O2D-CGD-CBD	2.47	121.79	114.00
12	D3	201	CYC	O2D-CGD-CBD	2.47	121.79	114.00
12	J5	201	CYC	C2C-C1C-NC	2.47	110.34	108.29
12	B8	202	CYC	C2A-C1A-NA	2.47	113.54	110.04
12	A9	201	CYC	CHB-C4A-NA	-2.47	119.63	124.95
12	k5	1202	CYC	C4A-C3A-C2A	-2.47	103.68	106.48
12	E2	201	CYC	C4A-C3A-C2A	-2.47	103.68	106.48
12	F3	201	CYC	C1A-C2A-C3A	-2.47	104.06	106.73
12	F1	201	CYC	C1A-C2A-C3A	-2.47	104.06	106.73
12	X4	201	CYC	CHB-C4A-NA	-2.47	119.63	124.95
12	X8	201	CYC	CHB-C4A-NA	-2.47	119.63	124.95
12	A4	201	CYC	CHB-C4A-NA	-2.46	119.63	124.95
12	A8	201	CYC	CHB-C4A-NA	-2.46	119.63	124.95
12	N4	201	CYC	CAC-C3C-C4C	2.46	119.00	112.67
12	v7	201	CYC	C4A-C3A-C2A	-2.46	103.68	106.48
12	Q1	201	CYC	CHB-C4A-NA	-2.46	119.63	124.95
12	Q3	201	CYC	CHB-C4A-NA	-2.46	119.63	124.95
12	Z4	301	CYC	CAA-C2A-C1A	2.46	129.34	125.02
12	F2	201	CYC	CAA-C2A-C1A	2.46	129.34	125.02
12	XA	202	CYC	O2D-CGD-CBD	2.46	121.78	114.00
12	X9	202	CYC	O2D-CGD-CBD	2.46	121.78	114.00
12	W4	201	CYC	CAA-C2A-C1A	2.46	129.34	125.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	W8	201	CYC	CAA-C2A-C1A	2.46	129.34	125.02
12	B4	202	CYC	C2A-C1A-NA	2.46	113.53	110.04
12	H3	201	CYC	O2D-CGD-CBD	2.46	121.78	114.00
12	H1	202	CYC	O2D-CGD-CBD	2.46	121.78	114.00
12	KA	201	CYC	CHB-C4A-NA	-2.46	119.64	124.95
12	K9	201	CYC	CHB-C4A-NA	-2.46	119.64	124.95
12	EA	201	CYC	C4A-C3A-C2A	-2.46	103.68	106.48
12	E9	201	CYC	CHB-C4A-NA	-2.46	119.64	124.95
12	D7	201	CYC	C4A-C3A-C2A	-2.46	103.68	106.48
12	GA	201	CYC	C2A-C1A-NA	2.46	113.53	110.04
12	G9	201	CYC	C2A-C1A-NA	2.46	113.53	110.04
12	A6	201	CYC	CHB-C4A-NA	-2.46	119.64	124.95
12	j5	1201	CYC	C1B-NB-C4B	-2.46	107.64	110.66
12	FA	301	CYC	C2A-C1A-NA	2.46	113.52	110.04
12	XA	201	CYC	C1A-C2A-C3A	-2.46	104.07	106.73
12	X9	201	CYC	C1A-C2A-C3A	-2.46	104.07	106.73
12	ZA	202	CYC	C1A-C2A-C3A	-2.46	104.07	106.73
12	Z9	202	CYC	C1A-C2A-C3A	-2.46	104.07	106.73
12	T3	301	CYC	CAA-C2A-C1A	2.46	129.33	125.02
12	T1	301	CYC	CAA-C2A-C1A	2.46	129.33	125.02
12	T4	201	CYC	CAC-C3C-C4C	2.46	118.98	112.67
12	T8	201	CYC	CAC-C3C-C4C	2.46	118.98	112.67
12	L4	201	CYC	O2D-CGD-CBD	2.46	121.76	114.00
12	L8	201	CYC	O2D-CGD-CBD	2.46	121.76	114.00
12	Z3	202	CYC	O2D-CGD-CBD	2.46	121.76	114.00
12	Z1	201	CYC	O2D-CGD-CBD	2.46	121.76	114.00
12	R4	201	CYC	CAC-C3C-C4C	2.46	118.98	112.67
12	R8	201	CYC	CAC-C3C-C4C	2.46	118.98	112.67
12	U5	201	CYC	CHB-C1B-C2B	-2.46	122.07	126.97
12	ZA	201	CYC	O2D-CGD-CBD	2.46	121.76	114.00
12	PA	201	CYC	C1A-C2A-C3A	-2.45	104.07	106.73
12	I2	201	CYC	CAC-C3C-C4C	2.45	118.97	112.67
12	I6	201	CYC	CAC-C3C-C4C	2.45	118.97	112.67
12	V9	201	CYC	CAA-C2A-C1A	2.45	129.33	125.02
12	IA	201	CYC	CHB-C4A-NA	-2.45	119.65	124.95
12	I9	201	CYC	CHB-C4A-NA	-2.45	119.65	124.95
12	G4	201	CYC	C2A-C1A-NA	2.45	113.52	110.04
12	G8	201	CYC	C2A-C1A-NA	2.45	113.52	110.04
12	L7	201	CYC	C4A-C3A-C2A	-2.45	103.69	106.48
12	U3	201	CYC	CAC-C3C-C4C	2.45	118.97	112.67
12	R1	201	CYC	CAA-C2A-C1A	2.45	129.33	125.02
12	R3	201	CYC	CAA-C2A-C1A	2.45	129.33	125.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	D4	202	CYC	C1A-C2A-C3A	-2.45	104.07	106.73
12	D8	202	CYC	C1A-C2A-C3A	-2.45	104.07	106.73
12	D4	202	CYC	CAA-C2A-C1A	2.45	129.33	125.02
12	L6	201	CYC	CAA-C2A-C1A	2.45	129.33	125.02
12	D8	202	CYC	CAA-C2A-C1A	2.45	129.33	125.02
12	R7	201	CYC	C4A-C3A-C2A	-2.45	103.69	106.48
12	e7	201	CYC	CHB-C1B-C2B	-2.45	122.08	126.97
12	P1	201	CYC	CAA-C2A-C1A	2.45	129.32	125.02
12	P3	201	CYC	CAA-C2A-C1A	2.45	129.32	125.02
12	Y3	201	CYC	CHB-C4A-NA	-2.45	119.66	124.95
12	Y1	201	CYC	CHB-C4A-NA	-2.45	119.66	124.95
12	K1	201	CYC	CAC-C3C-C4C	2.45	118.97	112.67
12	L3	202	CYC	C1A-C2A-C3A	-2.45	104.07	106.73
12	F2	201	CYC	C2A-C1A-NA	2.45	113.52	110.04
12	EA	201	CYC	CHB-C4A-NA	-2.45	119.66	124.95
12	M4	301	CYC	C1A-C2A-C3A	-2.45	104.08	106.73
12	DA	201	CYC	CAA-C2A-C1A	2.45	129.32	125.02
12	D9	201	CYC	CAA-C2A-C1A	2.45	129.32	125.02
12	p7	201	CYC	C4A-C3A-C2A	-2.45	103.70	106.48
12	f5	201	CYC	C4A-C3A-C2A	-2.45	103.70	106.48
12	F6	201	CYC	C1A-C2A-C3A	-2.45	104.08	106.73
12	CA	201	CYC	CAC-C3C-C4C	2.45	118.96	112.67
12	C9	201	CYC	CAC-C3C-C4C	2.45	118.96	112.67
12	V3	201	CYC	C1A-C2A-C3A	-2.45	104.08	106.73
12	V1	201	CYC	C1A-C2A-C3A	-2.45	104.08	106.73
12	F3	201	CYC	CAA-C2A-C1A	2.45	129.32	125.02
12	F1	201	CYC	CAA-C2A-C1A	2.45	129.32	125.02
12	C4	201	CYC	CAC-C3C-C4C	2.45	118.95	112.67
12	C8	201	CYC	CAC-C3C-C4C	2.45	118.95	112.67
12	F4	202	CYC	CAA-C2A-C1A	2.45	129.31	125.02
12	O3	201	CYC	CHB-C4A-NA	-2.45	119.67	124.95
12	Y7	201	CYC	CHB-C1B-C2B	-2.45	122.09	126.97
12	G2	201	CYC	CAC-C3C-C4C	2.45	118.95	112.67
12	UA	201	CYC	CAC-C3C-C4C	2.45	118.95	112.67
12	V8	201	CYC	C4A-C3A-C2A	-2.45	103.70	106.48
12	SA	201	CYC	CHB-C4A-NA	-2.45	119.67	124.95
12	S9	201	CYC	CHB-C4A-NA	-2.45	119.67	124.95
12	M8	302	CYC	C1A-C2A-C3A	-2.45	104.08	106.73
12	U4	202	CYC	O2D-CGD-CBD	2.44	121.72	114.00
12	D6	202	CYC	O2D-CGD-CBD	2.44	121.72	114.00
12	U8	202	CYC	O2D-CGD-CBD	2.44	121.72	114.00
12	U1	201	CYC	CAC-C3C-C4C	2.44	118.95	112.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	PA	201	CYC	C2A-C1A-NA	2.44	113.50	110.04
12	J4	201	CYC	C1A-C2A-C3A	-2.44	104.08	106.73
12	J3	201	CYC	O2D-CGD-CBD	2.44	121.72	114.00
12	J1	201	CYC	O2D-CGD-CBD	2.44	121.72	114.00
12	I4	201	CYC	CHB-C4A-NA	-2.44	119.67	124.95
12	I8	201	CYC	CHB-C4A-NA	-2.44	119.67	124.95
12	G3	201	CYC	CAC-C3C-C4C	2.44	118.95	112.67
12	G1	201	CYC	CAC-C3C-C4C	2.44	118.95	112.67
12	P1	201	CYC	C2A-C1A-NA	2.44	113.50	110.04
12	P3	201	CYC	C2A-C1A-NA	2.44	113.50	110.04
12	LA	201	CYC	O2D-CGD-CBD	2.44	121.72	114.00
12	L9	201	CYC	O2D-CGD-CBD	2.44	121.72	114.00
12	K3	201	CYC	CAC-C3C-C4C	2.44	118.94	112.67
12	C2	201	CYC	C2A-C1A-NA	2.44	113.50	110.04
12	R1	202	CYC	O2D-CGD-CBD	2.44	121.72	114.00
12	R3	202	CYC	O2D-CGD-CBD	2.44	121.72	114.00
12	I2	201	CYC	CHB-C4A-NA	-2.44	119.68	124.95
12	aA	901	CYC	C1A-C2A-C3A	-2.44	104.08	106.73
12	C6	201	CYC	C2A-C1A-NA	2.44	113.50	110.04
12	P9	201	CYC	C2A-C1A-NA	2.44	113.50	110.04
12	P9	201	CYC	C1A-C2A-C3A	-2.44	104.09	106.73
12	E6	201	CYC	CHB-C4A-NA	-2.44	119.68	124.95
12	H5	201	CYC	C4A-C3A-C2A	-2.44	103.71	106.48
12	EA	201	CYC	CAC-C3C-C4C	2.44	118.94	112.67
12	E9	201	CYC	CAC-C3C-C4C	2.44	118.94	112.67
12	D3	202	CYC	CAA-C2A-C1A	2.44	129.30	125.02
12	Y3	201	CYC	CAC-C3C-C4C	2.44	118.94	112.67
12	Y1	201	CYC	CAC-C3C-C4C	2.44	118.94	112.67
12	S1	201	CYC	CAC-C3C-C4C	2.44	118.94	112.67
12	S3	201	CYC	CAC-C3C-C4C	2.44	118.94	112.67
12	k5	1204	CYC	C4A-C3A-C2A	-2.44	103.71	106.48
12	O5	201	CYC	CHB-C1B-C2B	-2.44	122.11	126.97
12	E4	201	CYC	CHB-C4A-NA	-2.44	119.69	124.95
12	E8	201	CYC	CHB-C4A-NA	-2.44	119.69	124.95
12	D1	202	CYC	CAA-C2A-C1A	2.44	129.30	125.02
12	H2	202	CYC	O2D-CGD-CBD	2.44	121.70	114.00
12	E3	201	CYC	CHB-C4A-NA	-2.44	119.69	124.95
12	E1	201	CYC	CHB-C4A-NA	-2.44	119.69	124.95
12	aA	902	CYC	C1A-C2A-C3A	-2.44	104.09	106.73
12	Z8	301	CYC	CAA-C2A-C1A	2.44	129.30	125.02
12	L3	201	CYC	O2D-CGD-CBD	2.44	121.70	114.00
12	L1	201	CYC	O2D-CGD-CBD	2.44	121.70	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	L2	201	CYC	CAA-C2A-C1A	2.44	129.30	125.02
12	a7	201	CYC	CHB-C1B-C2B	-2.44	122.11	126.97
12	F4	202	CYC	C2C-C3C-C4C	2.44	104.99	101.34
12	F8	202	CYC	C2C-C3C-C4C	2.44	104.99	101.34
12	H6	202	CYC	O2D-CGD-CBD	2.44	121.70	114.00
12	O1	201	CYC	CHB-C4A-NA	-2.44	119.69	124.95
12	N4	201	CYC	CHB-C4A-NA	-2.44	119.69	124.95
12	N8	201	CYC	CHB-C4A-NA	-2.44	119.69	124.95
12	H4	202	CYC	O2D-CGD-CBD	2.44	121.70	114.00
12	H8	202	CYC	O2D-CGD-CBD	2.44	121.70	114.00
12	U9	201	CYC	CAC-C3C-C4C	2.44	118.93	112.67
12	S4	201	CYC	O2D-CGD-CBD	2.44	121.69	114.00
12	S8	201	CYC	O2D-CGD-CBD	2.44	121.69	114.00
12	E7	201	CYC	CHB-C1B-C2B	-2.44	122.11	126.97
12	f7	201	CYC	C4A-C3A-C2A	-2.44	103.71	106.48
12	Z8	301	CYC	C2A-C1A-NA	2.43	113.49	110.04
12	S7	201	CYC	C2C-C1C-NC	2.43	110.31	108.29
12	G6	201	CYC	CAC-C3C-C4C	2.43	118.92	112.67
12	J8	201	CYC	C1A-C2A-C3A	-2.43	104.09	106.73
12	M8	302	CYC	C2A-C1A-NA	2.43	113.49	110.04
12	H9	201	CYC	O2D-CGD-CBD	2.43	121.69	114.00
12	i7	201	CYC	CHB-C1B-C2B	-2.43	122.12	126.97
12	F4	202	CYC	C1A-C2A-C3A	-2.43	104.09	106.73
12	F8	202	CYC	C1A-C2A-C3A	-2.43	104.09	106.73
12	P3	202	CYC	O2D-CGD-CBD	2.43	121.68	114.00
12	GA	201	CYC	CHB-C4A-NA	-2.43	119.70	124.95
12	S4	202	CYC	C2C-C3C-C4C	2.43	104.98	101.34
12	F4	201	CYC	O2D-CGD-CBD	2.43	121.68	114.00
12	F8	201	CYC	O2D-CGD-CBD	2.43	121.68	114.00
12	B1	202	CYC	CAA-C2A-C1A	2.43	129.29	125.02
12	VA	201	CYC	C2A-C1A-NA	2.43	113.48	110.04
12	HA	202	CYC	C2C-C3C-C4C	2.43	104.98	101.34
12	E3	201	CYC	CAC-C3C-C4C	2.43	118.91	112.67
12	E1	201	CYC	CAC-C3C-C4C	2.43	118.91	112.67
12	g7	201	CYC	CHB-C1B-C2B	-2.43	122.12	126.97
12	AA	201	CYC	CAC-C3C-C4C	2.43	118.91	112.67
12	S4	202	CYC	C2A-C1A-NA	2.43	113.48	110.04
12	PA	202	CYC	O2D-CGD-CBD	2.43	121.68	114.00
12	H6	201	CYC	C2A-C1A-NA	2.43	113.48	110.04
12	d7	201	CYC	C4A-C3A-C2A	-2.43	103.72	106.48
12	T3	302	CYC	O2D-CGD-CBD	2.43	121.67	114.00
12	T1	302	CYC	O2D-CGD-CBD	2.43	121.67	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	RA	201	CYC	C2A-C1A-NA	2.43	113.48	110.04
12	R9	201	CYC	C2A-C1A-NA	2.43	113.48	110.04
12	DA	202	CYC	O2D-CGD-CBD	2.43	121.67	114.00
12	D9	202	CYC	O2D-CGD-CBD	2.43	121.67	114.00
12	D5	201	CYC	C4A-C3A-C2A	-2.43	103.72	106.48
12	UA	201	CYC	CHB-C4A-NA	-2.43	119.71	124.95
12	P9	202	CYC	O2D-CGD-CBD	2.43	121.67	114.00
12	B3	202	CYC	CAA-C2A-C1A	2.43	129.28	125.02
12	U1	201	CYC	CHB-C4A-NA	-2.43	119.71	124.95
12	BA	202	CYC	O2D-CGD-CBD	2.43	121.67	114.00
12	B4	201	CYC	O2D-CGD-CBD	2.43	121.67	114.00
12	B9	202	CYC	O2D-CGD-CBD	2.43	121.67	114.00
12	JA	201	CYC	O2D-CGD-CBD	2.43	121.67	114.00
12	J9	201	CYC	O2D-CGD-CBD	2.43	121.67	114.00
12	D2	202	CYC	O2D-CGD-CBD	2.43	121.67	114.00
12	e5	201	CYC	CHB-C1B-C2B	-2.43	122.13	126.97
12	J4	202	CYC	O2D-CGD-CBD	2.43	121.66	114.00
12	L6	202	CYC	O2D-CGD-CBD	2.43	121.66	114.00
12	J8	202	CYC	O2D-CGD-CBD	2.43	121.66	114.00
12	F8	202	CYC	CAA-C2A-C1A	2.43	129.28	125.02
12	m7	201	CYC	CHB-C1B-C2B	-2.43	122.13	126.97
12	o7	201	CYC	CHB-C1B-C2B	-2.43	122.13	126.97
12	T4	201	CYC	CHB-C4A-NA	-2.43	119.72	124.95
12	T8	201	CYC	CHB-C4A-NA	-2.43	119.72	124.95
12	F3	202	CYC	O2D-CGD-CBD	2.42	121.66	114.00
12	F1	202	CYC	O2D-CGD-CBD	2.42	121.66	114.00
12	E2	201	CYC	CHB-C4A-NA	-2.42	119.72	124.95
12	h7	201	CYC	C4A-C3A-C2A	-2.42	103.72	106.48
12	O8	201	CYC	CAA-C2A-C1A	2.42	129.28	125.02
12	V3	202	CYC	O2D-CGD-CBD	2.42	121.66	114.00
12	V1	202	CYC	O2D-CGD-CBD	2.42	121.66	114.00
12	O4	201	CYC	CAA-C2A-C1A	2.42	129.28	125.02
12	G9	201	CYC	CHB-C4A-NA	-2.42	119.72	124.95
12	a5	201	CYC	CHB-C1B-C2B	-2.42	122.14	126.97
12	J2	202	CYC	CAA-C2A-C1A	2.42	129.27	125.02
12	X3	202	CYC	O2D-CGD-CBD	2.42	121.65	114.00
12	X1	202	CYC	O2D-CGD-CBD	2.42	121.65	114.00
12	b7	201	CYC	C4A-C3A-C2A	-2.42	103.73	106.48
12	W3	201	CYC	CHB-C4A-NA	-2.42	119.72	124.95
12	W4	201	CYC	C1A-C2A-C3A	-2.42	104.11	106.73
12	W8	201	CYC	C1A-C2A-C3A	-2.42	104.11	106.73
12	P1	202	CYC	O2D-CGD-CBD	2.42	121.65	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	K3	201	CYC	C2A-C1A-NA	2.42	113.47	110.04
12	HA	201	CYC	O2D-CGD-CBD	2.42	121.65	114.00
12	B8	201	CYC	O2D-CGD-CBD	2.42	121.65	114.00
12	XA	201	CYC	C2A-C1A-NA	2.42	113.47	110.04
12	X9	201	CYC	C2A-C1A-NA	2.42	113.47	110.04
12	B3	201	CYC	O2D-CGD-CBD	2.42	121.65	114.00
12	B1	201	CYC	O2D-CGD-CBD	2.42	121.65	114.00
12	B2	201	CYC	O2D-CGD-CBD	2.42	121.65	114.00
12	H2	201	CYC	C2A-C1A-NA	2.42	113.47	110.04
12	s7	201	CYC	CHB-C1B-C2B	-2.42	122.14	126.97
12	Z8	301	CYC	C1A-C2A-C3A	-2.42	104.11	106.73
12	J5	201	CYC	C4A-C3A-C2A	-2.42	103.73	106.48
12	U9	201	CYC	CHB-C4A-NA	-2.42	119.73	124.95
12	K1	201	CYC	C2A-C1A-NA	2.42	113.47	110.04
12	U3	201	CYC	CHB-C4A-NA	-2.42	119.73	124.95
12	W1	201	CYC	CHB-C4A-NA	-2.42	119.73	124.95
12	W5	201	CYC	CHB-C1B-C2B	-2.42	122.15	126.97
12	Z4	301	CYC	C1A-C2A-C3A	-2.42	104.11	106.73
12	A9	201	CYC	CAC-C3C-C4C	2.42	118.88	112.67
12	TA	301	CYC	C2A-C1A-NA	2.42	113.47	110.04
12	F6	201	CYC	C2A-C1A-NA	2.42	113.47	110.04
12	T9	301	CYC	C2A-C1A-NA	2.42	113.47	110.04
12	L2	202	CYC	O2D-CGD-CBD	2.42	121.64	114.00
12	E5	201	CYC	CHB-C1B-C2B	-2.42	122.15	126.97
12	C7	201	CYC	CHB-C1B-C2B	-2.42	122.15	126.97
12	u7	201	CYC	CHB-C1B-C2B	-2.42	122.15	126.97
12	S4	202	CYC	C1A-C2A-C3A	-2.42	104.11	106.73
12	B6	201	CYC	O2D-CGD-CBD	2.42	121.64	114.00
12	V4	201	CYC	CHB-C4A-NA	-2.42	119.73	124.95
12	V8	201	CYC	CHB-C4A-NA	-2.42	119.73	124.95
12	K7	201	CYC	CHB-C1B-C2B	-2.42	122.15	126.97
12	I3	201	CYC	CHB-C4A-NA	-2.42	119.74	124.95
12	I1	201	CYC	CHB-C4A-NA	-2.42	119.74	124.95
12	S5	201	CYC	CHB-C1B-C2B	-2.42	122.15	126.97
12	X5	201	CYC	C4A-C3A-C2A	-2.42	103.73	106.48
12	M5	201	CYC	CHB-C1B-C2B	-2.42	122.15	126.97
12	F2	201	CYC	C2C-C3C-C4C	2.41	104.96	101.34
12	F9	302	CYC	O2D-CGD-CBD	2.41	121.62	114.00
12	R9	201	CYC	C1A-C2A-C3A	-2.41	104.12	106.73
12	TA	301	CYC	C1A-C2A-C3A	-2.41	104.12	106.73
12	T9	301	CYC	C1A-C2A-C3A	-2.41	104.12	106.73
12	VA	202	CYC	O2D-CGD-CBD	2.41	121.62	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Y8	201	CYC	O2D-CGD-CBD	2.41	121.62	114.00
12	V9	202	CYC	O2D-CGD-CBD	2.41	121.62	114.00
12	O4	201	CYC	C1A-C2A-C3A	-2.41	104.12	106.73
12	H3	202	CYC	CAA-C2A-C1A	2.41	129.25	125.02
12	I4	201	CYC	CAC-C3C-C4C	2.41	118.86	112.67
12	I8	201	CYC	CAC-C3C-C4C	2.41	118.86	112.67
12	Y5	201	CYC	CHB-C1B-C2B	-2.41	122.16	126.97
12	E2	201	CYC	CAC-C3C-C4C	2.41	118.86	112.67
12	Y4	201	CYC	O2D-CGD-CBD	2.41	121.62	114.00
12	SA	201	CYC	C4A-C3A-C2A	-2.41	103.74	106.48
12	X7	201	CYC	C4A-C3A-C2A	-2.41	103.74	106.48
12	S9	201	CYC	C4A-C3A-C2A	-2.41	103.74	106.48
12	RA	201	CYC	C1A-C2A-C3A	-2.41	104.12	106.73
12	O8	201	CYC	C1A-C2A-C3A	-2.41	104.12	106.73
12	K5	201	CYC	CHB-C1B-C2B	-2.41	122.16	126.97
12	A7	201	CYC	CHB-C1B-C2B	-2.41	122.16	126.97
12	k7	201	CYC	CHB-C1B-C2B	-2.41	122.16	126.97
12	I7	201	CYC	CHB-C1B-C2B	-2.41	122.16	126.97
12	H3	202	CYC	C1A-C2A-C3A	-2.41	104.12	106.73
12	D4	202	CYC	C2A-C1A-NA	2.41	113.45	110.04
12	D8	202	CYC	C2A-C1A-NA	2.41	113.45	110.04
12	M7	201	CYC	CHB-C1B-C2B	-2.41	122.17	126.97
12	HA	202	CYC	C2A-C1A-NA	2.41	113.45	110.04
12	N2	101	CYC	C2A-C1A-NA	2.40	113.45	110.04
12	J4	201	CYC	C2A-C1A-NA	2.40	113.45	110.04
12	N6	101	CYC	C2A-C1A-NA	2.40	113.45	110.04
12	H9	202	CYC	C2C-C3C-C4C	2.40	104.94	101.34
12	F9	303	CYC	O2D-CGD-CBD	2.40	121.60	114.00
12	H1	201	CYC	C1A-C2A-C3A	-2.40	104.12	106.73
12	V9	201	CYC	C2A-C1A-NA	2.40	113.45	110.04
12	GA	201	CYC	CAC-C3C-C4C	2.40	118.84	112.67
12	c7	201	CYC	CHB-C1B-C2B	-2.40	122.18	126.97
12	E6	201	CYC	CAC-C3C-C4C	2.40	118.84	112.67
12	c5	201	CYC	CHB-C1B-C2B	-2.40	122.18	126.97
12	O7	201	CYC	CHB-C1B-C2B	-2.40	122.18	126.97
12	q7	201	CYC	CHB-C1B-C2B	-2.40	122.18	126.97
12	J2	201	CYC	O2D-CGD-CBD	2.40	121.59	114.00
12	H4	201	CYC	C1A-C2A-C3A	-2.40	104.13	106.73
12	H8	201	CYC	C1A-C2A-C3A	-2.40	104.13	106.73
12	Q7	201	CYC	CHB-C1B-C2B	-2.40	122.18	126.97
12	A2	201	CYC	CHD-C4C-NC	2.40	128.63	125.63
12	G2	201	CYC	CHB-C4A-NA	-2.40	119.77	124.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	F6	201	CYC	C2C-C3C-C4C	2.40	104.93	101.34
12	A5	201	CYC	CHB-C1B-C2B	-2.40	122.18	126.97
12	O4	202	CYC	O2D-CGD-CBD	2.40	121.58	114.00
12	O8	202	CYC	O2D-CGD-CBD	2.40	121.58	114.00
12	R1	201	CYC	C2A-C1A-NA	2.40	113.44	110.04
12	R3	201	CYC	C2A-C1A-NA	2.40	113.44	110.04
12	H1	201	CYC	CAA-C2A-C1A	2.40	129.23	125.02
12	J8	201	CYC	C2A-C1A-NA	2.40	113.44	110.04
12	JA	202	CYC	CAA-C2A-C1A	2.40	129.23	125.02
12	J9	202	CYC	CAA-C2A-C1A	2.40	129.23	125.02
12	J6	201	CYC	O2D-CGD-CBD	2.40	121.57	114.00
12	F7	201	CYC	C4A-C3A-C2A	-2.40	103.76	106.48
12	G7	201	CYC	CHB-C1B-C2B	-2.40	122.19	126.97
12	P1	201	CYC	C1A-C2A-C3A	-2.40	104.14	106.73
12	P3	201	CYC	C1A-C2A-C3A	-2.40	104.14	106.73
12	F4	202	CYC	C2A-C1A-NA	2.39	113.44	110.04
12	F8	202	CYC	C2A-C1A-NA	2.39	113.44	110.04
12	R9	202	CYC	O2D-CGD-CBD	2.39	121.57	114.00
12	F2	202	CYC	O2D-CGD-CBD	2.39	121.57	114.00
12	G8	201	CYC	CHB-C4A-NA	-2.39	119.78	124.95
12	X1	201	CYC	C2A-C1A-NA	2.39	113.43	110.04
12	TA	302	CYC	O2D-CGD-CBD	2.39	121.56	114.00
12	T9	302	CYC	O2D-CGD-CBD	2.39	121.56	114.00
12	G6	201	CYC	CHB-C4A-NA	-2.39	119.78	124.95
12	D4	201	CYC	O2D-CGD-CBD	2.39	121.56	114.00
12	D8	201	CYC	O2D-CGD-CBD	2.39	121.56	114.00
12	H7	201	CYC	C4A-C3A-C2A	-2.39	103.76	106.48
12	V7	201	CYC	C4A-C3A-C2A	-2.39	103.76	106.48
12	D6	201	CYC	C1A-C2A-C3A	-2.39	104.14	106.73
12	F3	201	CYC	C2A-C1A-NA	2.39	113.43	110.04
12	F1	201	CYC	C2A-C1A-NA	2.39	113.43	110.04
12	B5	201	CYC	C4A-C3A-C2A	-2.39	103.76	106.48
12	ZA	202	CYC	CAA-C2A-C1A	2.39	129.22	125.02
12	Z9	202	CYC	CAA-C2A-C1A	2.39	129.22	125.02
12	WA	201	CYC	CHB-C4A-NA	-2.39	119.79	124.95
12	W9	201	CYC	CHB-C4A-NA	-2.39	119.79	124.95
12	V3	201	CYC	CHD-C4C-NC	2.39	128.61	125.63
12	V1	201	CYC	CHD-C4C-NC	2.39	128.61	125.63
12	G9	201	CYC	CAC-C3C-C4C	2.39	118.81	112.67
12	G4	201	CYC	CHB-C4A-NA	-2.39	119.80	124.95
12	P4	201	CYC	CHB-C4A-NA	-2.39	119.80	124.95
12	P8	201	CYC	CHB-C4A-NA	-2.39	119.80	124.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G5	201	CYC	CHB-C1B-C2B	-2.39	122.21	126.97
12	j5	1202	CYC	C4A-C3A-C2A	-2.39	103.77	106.48
12	D6	201	CYC	C2A-C1A-NA	2.39	113.42	110.04
12	Z4	301	CYC	C2A-C1A-NA	2.39	113.42	110.04
12	J6	202	CYC	CAA-C2A-C1A	2.39	129.21	125.02
12	F6	202	CYC	O2D-CGD-CBD	2.39	121.54	114.00
12	k5	1201	CYC	CHD-C1D-C2D	-2.38	121.68	127.53
12	U7	201	CYC	CHB-C1B-C2B	-2.38	122.21	126.97
12	aA	901	CYC	C2A-C1A-NA	2.38	113.42	110.04
12	Q5	201	CYC	CHB-C1B-C2B	-2.38	122.22	126.97
12	S1	201	CYC	CHB-C4A-NA	-2.38	119.81	124.95
12	S3	201	CYC	CHB-C4A-NA	-2.38	119.81	124.95
12	j7	201	CYC	C4A-C3A-C2A	-2.38	103.77	106.48
12	J3	202	CYC	C2A-C1A-NA	2.38	113.42	110.04
12	VA	201	CYC	C2C-C3C-C4C	2.38	104.91	101.34
12	V9	201	CYC	C2C-C3C-C4C	2.38	104.91	101.34
12	RA	202	CYC	O2D-CGD-CBD	2.38	121.52	114.00
12	B7	201	CYC	C4A-C3A-C2A	-2.38	103.78	106.48
12	T3	301	CYC	C2C-C3C-C4C	2.38	104.90	101.34
12	T1	301	CYC	C2C-C3C-C4C	2.38	104.90	101.34
12	H9	202	CYC	C2A-C1A-NA	2.38	113.41	110.04
12	j5	1201	CYC	CHD-C1D-C2D	-2.38	121.70	127.53
12	R4	201	CYC	CHB-C4A-NA	-2.38	119.82	124.95
12	G5	201	CYC	C2C-C1C-NC	2.38	110.26	108.29
12	P7	201	CYC	C4A-C3A-C2A	-2.38	103.78	106.48
12	D3	202	CYC	C2A-C1A-NA	2.38	113.41	110.04
12	B1	202	CYC	C2A-C1A-NA	2.38	113.41	110.04
12	k5	1201	CYC	C1B-NB-C4B	-2.37	107.75	110.66
12	X3	201	CYC	C2A-C1A-NA	2.37	113.41	110.04
12	R8	201	CYC	CHB-C4A-NA	-2.37	119.83	124.95
12	X9	201	CYC	C2C-C3C-C4C	2.37	104.89	101.34
12	H3	202	CYC	C2A-C1A-NA	2.37	113.40	110.04
12	H3	202	CYC	C2C-C3C-C4C	2.37	104.89	101.34
12	B4	202	CYC	C1A-C2A-C3A	-2.37	104.16	106.73
12	T3	301	CYC	C2A-C1A-NA	2.37	113.40	110.04
12	D1	202	CYC	C2A-C1A-NA	2.37	113.40	110.04
12	T1	301	CYC	C2A-C1A-NA	2.37	113.40	110.04
12	A6	201	CYC	CHD-C4C-NC	2.37	128.59	125.63
12	D2	201	CYC	C2A-C1A-NA	2.37	113.39	110.04
12	J2	202	CYC	CHD-C4C-NC	2.37	128.59	125.63
12	U4	201	CYC	CAA-C2A-C1A	2.36	129.17	125.02
12	P9	202	CYC	CHD-C1D-ND	-2.36	119.95	125.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Q8	201	CYC	O2D-CGD-CBD	2.36	121.47	114.00
12	R1	201	CYC	C1A-C2A-C3A	-2.36	104.17	106.73
12	R3	201	CYC	C1A-C2A-C3A	-2.36	104.17	106.73
12	H1	201	CYC	C2A-C1A-NA	2.36	113.39	110.04
12	W7	201	CYC	CHB-C1B-C2B	-2.36	122.26	126.97
12	U8	201	CYC	CAA-C2A-C1A	2.36	129.17	125.02
12	M8	302	CYC	C2C-C3C-C4C	2.36	104.88	101.34
12	D3	202	CYC	C1A-C2A-C3A	-2.36	104.17	106.73
12	B3	202	CYC	C2A-C1A-NA	2.36	113.39	110.04
12	H1	201	CYC	CHD-C4C-NC	2.36	128.58	125.63
12	JA	202	CYC	C1A-C2A-C3A	-2.36	104.17	106.73
12	J9	202	CYC	C1A-C2A-C3A	-2.36	104.17	106.73
12	DA	201	CYC	C1A-C2A-C3A	-2.36	104.17	106.73
12	D9	201	CYC	C1A-C2A-C3A	-2.36	104.17	106.73
12	FA	301	CYC	C2C-C3C-C4C	2.36	104.87	101.34
12	F9	301	CYC	C2C-C3C-C4C	2.36	104.87	101.34
12	L3	202	CYC	C2A-C1A-NA	2.36	113.38	110.04
12	R5	201	CYC	C4A-C3A-C2A	-2.36	103.80	106.48
12	L5	201	CYC	C4A-C3A-C2A	-2.35	103.80	106.48
12	Q4	201	CYC	O2D-CGD-CBD	2.35	121.44	114.00
12	V3	201	CYC	C2C-C3C-C4C	2.35	104.86	101.34
12	V1	201	CYC	C2C-C3C-C4C	2.35	104.86	101.34
12	XA	201	CYC	C2C-C3C-C4C	2.35	104.86	101.34
12	D1	202	CYC	C1A-C2A-C3A	-2.35	104.18	106.73
12	H6	201	CYC	C2C-C3C-C4C	2.35	104.86	101.34
12	S4	201	CYC	CHD-C1D-ND	-2.35	119.98	125.29
12	S8	201	CYC	CHD-C1D-ND	-2.35	119.98	125.29
12	J6	202	CYC	CHD-C4C-NC	2.35	128.56	125.63
12	B8	202	CYC	C1A-C2A-C3A	-2.35	104.18	106.73
12	G3	201	CYC	CHD-C4C-NC	2.35	128.56	125.63
12	G1	201	CYC	CHD-C4C-NC	2.35	128.56	125.63
12	PA	202	CYC	CHD-C1D-ND	-2.35	119.98	125.29
12	T7	201	CYC	C4A-C3A-C2A	-2.35	103.81	106.48
12	TA	301	CYC	C2C-C3C-C4C	2.35	104.85	101.34
12	T9	301	CYC	C2C-C3C-C4C	2.35	104.85	101.34
12	H1	201	CYC	C2C-C3C-C4C	2.35	104.85	101.34
12	O4	201	CYC	C2A-C1A-NA	2.35	113.37	110.04
12	O8	201	CYC	C2A-C1A-NA	2.35	113.37	110.04
12	C5	201	CYC	C2C-C1C-NC	2.35	110.24	108.29
12	JA	202	CYC	C2C-C3C-C4C	2.35	104.85	101.34
12	J2	202	CYC	C2C-C3C-C4C	2.35	104.85	101.34
12	J9	202	CYC	C2C-C3C-C4C	2.35	104.85	101.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	aA	902	CYC	C2A-C1A-NA	2.34	113.36	110.04
12	BA	201	CYC	CHD-C4C-NC	2.34	128.56	125.63
12	B9	201	CYC	CHD-C4C-NC	2.34	128.56	125.63
12	c7	201	CYC	C2C-C1C-NC	2.34	110.24	108.29
12	W5	201	CYC	C2C-C1C-NC	2.34	110.24	108.29
12	Q5	201	CYC	C2C-C1C-NC	2.34	110.23	108.29
12	OA	201	CYC	CHD-C4C-NC	2.34	128.55	125.63
12	b5	201	CYC	C4A-C3A-C2A	-2.34	103.82	106.48
12	B1	202	CYC	C2C-C3C-C4C	2.34	104.84	101.34
12	M5	201	CYC	C2C-C1C-NC	2.34	110.23	108.29
12	A5	201	CYC	C2C-C1C-NC	2.34	110.23	108.29
12	Z5	201	CYC	C4A-C3A-C2A	-2.34	103.83	106.48
12	F5	201	CYC	C4A-C3A-C2A	-2.34	103.83	106.48
12	D6	202	CYC	CHD-C1D-ND	-2.33	120.02	125.29
12	D2	202	CYC	CHD-C1D-ND	-2.33	120.02	125.29
12	H3	202	CYC	CHD-C4C-NC	2.33	128.54	125.63
12	H2	201	CYC	C2C-C3C-C4C	2.33	104.83	101.34
12	O9	201	CYC	CHD-C4C-NC	2.33	128.54	125.63
12	S5	201	CYC	C2C-C1C-NC	2.33	110.23	108.29
12	U4	202	CYC	CBC-CAC-C3C	2.33	118.36	113.41
12	U8	202	CYC	CBC-CAC-C3C	2.33	118.36	113.41
12	UA	201	CYC	CHD-C4C-NC	2.33	128.54	125.63
12	U9	201	CYC	CHD-C4C-NC	2.33	128.54	125.63
12	L4	201	CYC	CBC-CAC-C3C	2.33	118.36	113.41
12	L8	201	CYC	CBC-CAC-C3C	2.33	118.36	113.41
12	H4	201	CYC	C2C-C3C-C4C	2.33	104.83	101.34
12	S7	201	CYC	CHB-C1B-C2B	-2.33	122.32	126.97
12	J4	201	CYC	C2C-C3C-C4C	2.33	104.83	101.34
12	JA	202	CYC	C2A-C1A-NA	2.33	113.34	110.04
12	J9	202	CYC	C2A-C1A-NA	2.33	113.34	110.04
12	L3	202	CYC	C2C-C3C-C4C	2.33	104.83	101.34
12	aA	902	CYC	C2C-C3C-C4C	2.33	104.83	101.34
12	U4	201	CYC	C2C-C3C-C4C	2.33	104.82	101.34
12	U8	201	CYC	C2C-C3C-C4C	2.33	104.82	101.34
12	B3	202	CYC	C1A-C2A-C3A	-2.33	104.21	106.73
12	F2	201	CYC	CHD-C4C-NC	2.33	128.53	125.63
12	X3	201	CYC	C2C-C3C-C4C	2.33	104.82	101.34
12	J6	202	CYC	C2C-C3C-C4C	2.33	104.82	101.34
12	H8	201	CYC	C2C-C3C-C4C	2.33	104.82	101.34
12	X1	201	CYC	C2C-C3C-C4C	2.33	104.82	101.34
12	V3	202	CYC	CBC-CAC-C3C	2.32	118.34	113.41
12	V1	202	CYC	CBC-CAC-C3C	2.32	118.34	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	X3	201	CYC	CHD-C4C-NC	2.32	128.53	125.63
12	X1	201	CYC	CHD-C4C-NC	2.32	128.53	125.63
12	DA	201	CYC	C2A-C1A-NA	2.32	113.33	110.04
12	D9	201	CYC	C2A-C1A-NA	2.32	113.33	110.04
12	F3	201	CYC	C2C-C3C-C4C	2.32	104.81	101.34
12	D1	202	CYC	C2C-C3C-C4C	2.32	104.81	101.34
12	F1	201	CYC	C2C-C3C-C4C	2.32	104.81	101.34
12	N5	201	CYC	C4A-C3A-C2A	-2.32	103.84	106.48
12	U4	201	CYC	C2A-C1A-NA	2.32	113.33	110.04
12	U8	201	CYC	C2A-C1A-NA	2.32	113.33	110.04
12	ZA	202	CYC	CHD-C4C-NC	2.32	128.53	125.63
12	Z9	202	CYC	CHD-C4C-NC	2.32	128.53	125.63
12	J8	201	CYC	C2C-C3C-C4C	2.32	104.81	101.34
12	ZA	202	CYC	C2A-C1A-NA	2.32	113.33	110.04
12	Z9	202	CYC	C2A-C1A-NA	2.32	113.33	110.04
12	R3	202	CYC	CHD-C1D-ND	-2.32	120.06	125.29
12	R1	202	CYC	CHD-C1D-ND	-2.32	120.06	125.29
12	H3	201	CYC	CHD-C1D-ND	-2.32	120.06	125.29
12	T3	302	CYC	CHD-C1D-ND	-2.32	120.06	125.29
12	H1	202	CYC	CHD-C1D-ND	-2.32	120.06	125.29
12	T1	302	CYC	CHD-C1D-ND	-2.32	120.06	125.29
12	D2	201	CYC	C1A-C2A-C3A	-2.32	104.22	106.73
12	a9	901	CYC	C2C-C3C-C4C	2.31	104.81	101.34
12	j5	1202	CYC	CHD-C4C-NC	2.31	128.52	125.63
12	XA	202	CYC	CHD-C1D-ND	-2.31	120.06	125.29
12	X9	202	CYC	CHD-C1D-ND	-2.31	120.06	125.29
12	d5	201	CYC	C4A-C3A-C2A	-2.31	103.85	106.48
12	R3	201	CYC	C2C-C3C-C4C	2.31	104.80	101.34
12	L4	202	CYC	C2C-C3C-C4C	2.31	104.80	101.34
12	B3	201	CYC	CHD-C1D-ND	-2.31	120.07	125.29
12	B1	201	CYC	CHD-C1D-ND	-2.31	120.07	125.29
12	B3	202	CYC	C2C-C3C-C4C	2.31	104.80	101.34
12	B1	202	CYC	C1A-C2A-C3A	-2.31	104.23	106.73
12	VA	202	CYC	CHD-C1D-ND	-2.31	120.08	125.29
12	D3	201	CYC	CHD-C1D-ND	-2.31	120.08	125.29
12	D1	201	CYC	CHD-C1D-ND	-2.31	120.08	125.29
12	V9	202	CYC	CHD-C1D-ND	-2.31	120.08	125.29
12	M4	301	CYC	CHD-C4C-NC	2.31	128.51	125.63
12	J5	201	CYC	CHD-C4C-NC	2.31	128.51	125.63
12	D7	201	CYC	CHD-C4C-NC	2.30	128.51	125.63
12	X3	202	CYC	CBC-CAC-C3C	2.30	118.30	113.41
12	X1	202	CYC	CBC-CAC-C3C	2.30	118.30	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	L6	201	CYC	C2C-C3C-C4C	2.30	104.79	101.34
12	E3	201	CYC	CHD-C4C-NC	2.30	128.50	125.63
12	Z4	301	CYC	CHD-C4C-NC	2.30	128.50	125.63
12	ZA	202	CYC	C2C-C3C-C4C	2.30	104.79	101.34
12	Z9	202	CYC	C2C-C3C-C4C	2.30	104.79	101.34
12	N7	201	CYC	C4A-C3A-C2A	-2.30	103.86	106.48
12	VA	201	CYC	CHD-C4C-NC	2.30	128.50	125.63
12	V9	201	CYC	CHD-C4C-NC	2.30	128.50	125.63
12	I5	201	CYC	C2C-C1C-NC	2.30	110.20	108.29
12	R1	201	CYC	C2C-C3C-C4C	2.30	104.78	101.34
12	DA	201	CYC	CHD-C4C-NC	2.30	128.50	125.63
12	R4	201	CYC	CHD-C4C-NC	2.30	128.50	125.63
12	R8	201	CYC	CHD-C4C-NC	2.30	128.50	125.63
12	D9	201	CYC	CHD-C4C-NC	2.30	128.50	125.63
12	L1	201	CYC	CHD-C1D-ND	-2.30	120.10	125.29
12	D3	202	CYC	C2C-C3C-C4C	2.30	104.78	101.34
12	u7	201	CYC	C2C-C1C-NC	2.30	110.20	108.29
12	LA	202	CYC	C2C-C3C-C4C	2.30	104.78	101.34
12	L9	202	CYC	C2C-C3C-C4C	2.30	104.78	101.34
12	H4	202	CYC	CHD-C1D-ND	-2.30	120.10	125.29
12	H8	202	CYC	CHD-C1D-ND	-2.30	120.10	125.29
12	F2	202	CYC	CHD-C1D-ND	-2.30	120.10	125.29
12	K7	201	CYC	C2C-C1C-NC	2.30	110.20	108.29
12	J2	202	CYC	C1A-C2A-C3A	-2.30	104.24	106.73
12	J7	201	CYC	CHD-C4C-NC	2.30	128.50	125.63
12	RA	202	CYC	CHD-C1D-ND	-2.29	120.11	125.29
12	R9	202	CYC	CHD-C1D-ND	-2.29	120.11	125.29
12	U4	202	CYC	CHD-C1D-ND	-2.29	120.11	125.29
12	F6	202	CYC	CHD-C1D-ND	-2.29	120.11	125.29
12	U8	202	CYC	CHD-C1D-ND	-2.29	120.11	125.29
12	D5	201	CYC	CHD-C4C-NC	2.29	128.50	125.63
12	J8	202	CYC	CBC-CAC-C3C	2.29	118.28	113.41
12	W4	201	CYC	C2C-C3C-C4C	2.29	104.77	101.34
12	W8	201	CYC	C2C-C3C-C4C	2.29	104.77	101.34
12	J3	201	CYC	CHD-C1D-ND	-2.29	120.11	125.29
12	J1	201	CYC	CHD-C1D-ND	-2.29	120.11	125.29
12	Z3	201	CYC	C2C-C3C-C4C	2.29	104.77	101.34
12	Z1	202	CYC	C2C-C3C-C4C	2.29	104.77	101.34
12	J2	202	CYC	C2A-C1A-NA	2.29	113.29	110.04
12	o7	201	CYC	C2C-C1C-NC	2.29	110.19	108.29
12	B6	201	CYC	CHD-C1D-ND	-2.29	120.11	125.29
12	J9	201	CYC	CBC-CAC-C3C	2.29	118.27	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	k5	1201	CYC	O2A-CGA-CBA	2.29	121.24	114.00
12	T5	201	CYC	C4A-C3A-C2A	-2.29	103.88	106.48
12	W4	202	CYC	CHD-C1D-ND	-2.29	120.11	125.29
12	Z	201	CYC	CHD-C4C-NC	2.29	128.49	125.63
12	Q5	201	CYC	CHA-C4D-C3D	-2.29	122.30	127.22
12	E7	201	CYC	C2C-C1C-NC	2.29	110.19	108.29
12	Z3	201	CYC	CHD-C4C-NC	2.29	128.49	125.63
12	M8	301	CYC	CHD-C4C-NC	2.29	128.49	125.63
12	Z1	202	CYC	CHD-C4C-NC	2.29	128.49	125.63
12	I3	201	CYC	CHD-C4C-NC	2.29	128.49	125.63
12	Z8	301	CYC	CHD-C4C-NC	2.29	128.49	125.63
12	I1	201	CYC	CHD-C4C-NC	2.29	128.49	125.63
12	F2	202	CYC	CBC-CAC-C3C	2.29	118.27	113.41
12	J4	201	CYC	CHD-C4C-NC	2.29	128.49	125.63
12	L3	201	CYC	CHD-C1D-ND	-2.29	120.12	125.29
12	F4	201	CYC	CHD-C1D-ND	-2.29	120.12	125.29
12	F8	201	CYC	CHD-C1D-ND	-2.29	120.12	125.29
12	G2	201	CYC	CHD-C4C-NC	2.29	128.49	125.63
12	N2	101	CYC	C2C-C3C-C4C	2.29	104.76	101.34
12	S4	202	CYC	CHD-C4C-NC	2.29	128.48	125.63
12	K4	201	CYC	CHD-C4C-NC	2.28	128.48	125.63
12	K8	201	CYC	CHD-C4C-NC	2.28	128.48	125.63
12	h7	201	CYC	CHD-C4C-NC	2.28	128.48	125.63
12	LA	201	CYC	CBC-CAC-C3C	2.28	118.26	113.41
12	H3	201	CYC	CBC-CAC-C3C	2.28	118.26	113.41
12	L9	201	CYC	CBC-CAC-C3C	2.28	118.26	113.41
12	H1	202	CYC	CBC-CAC-C3C	2.28	118.26	113.41
12	HA	201	CYC	CBC-CAC-C3C	2.28	118.25	113.41
12	H9	201	CYC	CBC-CAC-C3C	2.28	118.25	113.41
12	A4	201	CYC	CHD-C4C-NC	2.28	128.48	125.63
12	k5	1204	CYC	CHD-C4C-NC	2.28	128.48	125.63
12	H2	202	CYC	CBC-CAC-C3C	2.28	118.25	113.41
12	L2	201	CYC	C2C-C3C-C4C	2.28	104.76	101.34
12	J8	201	CYC	CHD-C4C-NC	2.28	128.48	125.63
12	DA	202	CYC	CBC-CAC-C3C	2.28	118.25	113.41
12	D9	202	CYC	CBC-CAC-C3C	2.28	118.25	113.41
12	K7	201	CYC	CHA-C4D-C3D	-2.28	122.32	127.22
12	J6	201	CYC	CHD-C1D-ND	-2.28	120.14	125.29
12	A1	201	CYC	CHD-C4C-NC	2.28	128.48	125.63
12	A3	201	CYC	CHD-C4C-NC	2.28	128.48	125.63
12	H9	202	CYC	CHD-C4C-NC	2.28	128.47	125.63
12	o7	201	CYC	CHA-C4D-C3D	-2.28	122.32	127.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	JA	201	CYC	CBC-CAC-C3C	2.28	118.25	113.41
12	J2	201	CYC	CBC-CAC-C3C	2.28	118.24	113.41
12	P1	202	CYC	CHD-C1D-ND	-2.28	120.14	125.29
12	P3	202	CYC	CHD-C1D-ND	-2.28	120.14	125.29
12	J4	202	CYC	CBC-CAC-C3C	2.28	118.24	113.41
12	F9	303	CYC	CHD-C1D-ND	-2.28	120.15	125.29
12	XA	202	CYC	CBC-CAC-C3C	2.28	118.24	113.41
12	L3	201	CYC	CBC-CAC-C3C	2.28	118.24	113.41
12	H6	202	CYC	CBC-CAC-C3C	2.28	118.24	113.41
12	X9	202	CYC	CBC-CAC-C3C	2.28	118.24	113.41
12	L1	201	CYC	CBC-CAC-C3C	2.28	118.24	113.41
12	J4	202	CYC	CHD-C1D-ND	-2.28	120.15	125.29
12	J8	202	CYC	CHD-C1D-ND	-2.28	120.15	125.29
12	F6	202	CYC	CBC-CAC-C3C	2.28	118.24	113.41
12	D6	201	CYC	CHD-C4C-NC	2.28	128.47	125.63
12	G6	201	CYC	CHD-C4C-NC	2.28	128.47	125.63
12	Z3	202	CYC	CHD-C1D-ND	-2.27	120.15	125.29
12	Z1	201	CYC	CHD-C1D-ND	-2.27	120.15	125.29
12	J3	202	CYC	C2C-C3C-C4C	2.27	104.75	101.34
12	aA	901	CYC	C2C-C3C-C4C	2.27	104.75	101.34
12	D2	201	CYC	CHD-C4C-NC	2.27	128.47	125.63
12	S4	201	CYC	CBC-CAC-C3C	2.27	118.24	113.41
12	S8	201	CYC	CBC-CAC-C3C	2.27	118.24	113.41
12	E1	201	CYC	CHD-C4C-NC	2.27	128.47	125.63
12	U5	201	CYC	C2C-C1C-NC	2.27	110.18	108.29
12	W5	201	CYC	CHA-C4D-C3D	-2.27	122.34	127.22
12	J3	201	CYC	CBC-CAC-C3C	2.27	118.23	113.41
12	J1	201	CYC	CBC-CAC-C3C	2.27	118.23	113.41
12	HA	201	CYC	CHD-C1D-ND	-2.27	120.16	125.29
12	Y4	201	CYC	CHD-C1D-ND	-2.27	120.16	125.29
12	W8	202	CYC	CHD-C1D-ND	-2.27	120.16	125.29
12	H9	201	CYC	CHD-C1D-ND	-2.27	120.16	125.29
12	F6	201	CYC	CHD-C4C-NC	2.27	128.47	125.63
12	j5	1201	CYC	O2A-CGA-CBA	2.27	121.18	114.00
12	J2	201	CYC	CHD-C1D-ND	-2.27	120.16	125.29
12	A	201	CYC	CHD-C4C-NC	2.27	128.47	125.63
12	B8	201	CYC	CHD-C1D-ND	-2.27	120.16	125.29
12	D4	201	CYC	CBC-CAC-C3C	2.27	118.23	113.41
12	E5	201	CYC	CHA-C4D-C3D	-2.27	122.34	127.22
12	RA	201	CYC	C2C-C3C-C4C	2.27	104.74	101.34
12	R9	201	CYC	C2C-C3C-C4C	2.27	104.74	101.34
12	V3	202	CYC	CHD-C1D-ND	-2.27	120.16	125.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	M8	302	CYC	CHD-C4C-NC	2.27	128.46	125.63
12	D3	201	CYC	CBC-CAC-C3C	2.27	118.22	113.41
12	D1	201	CYC	CBC-CAC-C3C	2.27	118.22	113.41
12	Y4	201	CYC	CBC-CAC-C3C	2.27	118.22	113.41
12	Y8	201	CYC	CBC-CAC-C3C	2.27	118.22	113.41
12	GA	201	CYC	CHD-C4C-NC	2.27	128.46	125.63
12	G9	201	CYC	CHD-C4C-NC	2.27	128.46	125.63
12	U1	201	CYC	CHD-C4C-NC	2.27	128.46	125.63
12	Y8	201	CYC	CHD-C1D-ND	-2.27	120.17	125.29
12	O4	202	CYC	CAA-C2A-C1A	2.27	129.00	125.02
12	O8	202	CYC	CAA-C2A-C1A	2.27	129.00	125.02
12	O4	202	CYC	CBC-CAC-C3C	2.27	118.22	113.41
12	O8	202	CYC	CBC-CAC-C3C	2.27	118.22	113.41
12	V9	202	CYC	CBC-CAC-C3C	2.27	118.22	113.41
12	W4	201	CYC	CHD-C4C-NC	2.27	128.46	125.63
12	W8	201	CYC	CHD-C4C-NC	2.27	128.46	125.63
12	BA	202	CYC	CHD-C1D-ND	-2.27	120.17	125.29
12	B9	202	CYC	CHD-C1D-ND	-2.27	120.17	125.29
12	U7	201	CYC	CHA-C4D-C3D	-2.27	122.35	127.22
12	L4	201	CYC	CHD-C1D-ND	-2.26	120.17	125.29
12	L8	201	CYC	CHD-C1D-ND	-2.26	120.17	125.29
12	U3	201	CYC	CHD-C4C-NC	2.26	128.46	125.63
12	Z3	202	CYC	CBC-CAC-C3C	2.26	118.22	113.41
12	Z1	201	CYC	CBC-CAC-C3C	2.26	118.22	113.41
12	U5	201	CYC	CHA-C4D-C3D	-2.26	122.35	127.22
12	V1	202	CYC	CHD-C1D-ND	-2.26	120.17	125.29
12	j5	1201	CYC	C2B-C1B-NB	2.26	110.27	106.97
12	RA	201	CYC	CHD-C4C-NC	2.26	128.46	125.63
12	R9	201	CYC	CHD-C4C-NC	2.26	128.46	125.63
12	O7	201	CYC	CHA-C4D-C3D	-2.26	122.36	127.22
12	g7	201	CYC	CHA-C4D-C3D	-2.26	122.36	127.22
12	B3	201	CYC	CBC-CAC-C3C	2.26	118.21	113.41
12	B4	201	CYC	CBC-CAC-C3C	2.26	118.21	113.41
12	B1	201	CYC	CBC-CAC-C3C	2.26	118.21	113.41
12	J6	201	CYC	CBC-CAC-C3C	2.26	118.21	113.41
12	B8	201	CYC	CBC-CAC-C3C	2.26	118.21	113.41
12	JA	201	CYC	CHD-C1D-ND	-2.26	120.18	125.29
12	J9	201	CYC	CHD-C1D-ND	-2.26	120.18	125.29
12	B2	201	CYC	CHD-C1D-ND	-2.26	120.18	125.29
12	L2	202	CYC	CBC-CAC-C3C	2.26	118.21	113.41
12	J6	202	CYC	C1A-C2A-C3A	-2.26	104.28	106.73
12	D8	201	CYC	CBC-CAC-C3C	2.26	118.21	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	W3	201	CYC	CHD-C4C-NC	2.26	128.46	125.63
12	W1	201	CYC	CHD-C4C-NC	2.26	128.46	125.63
12	DA	202	CYC	CHD-C1D-ND	-2.26	120.18	125.29
12	D9	202	CYC	CHD-C1D-ND	-2.26	120.18	125.29
12	F9	302	CYC	CHD-C1D-ND	-2.26	120.18	125.29
12	W7	201	CYC	CHA-C4D-C3D	-2.26	122.36	127.22
12	T3	302	CYC	CBC-CAC-C3C	2.26	118.21	113.41
12	T1	302	CYC	CBC-CAC-C3C	2.26	118.21	113.41
12	F3	201	CYC	CHD-C4C-NC	2.26	128.45	125.63
12	A8	201	CYC	CHD-C4C-NC	2.26	128.45	125.63
12	F1	201	CYC	CHD-C4C-NC	2.26	128.45	125.63
12	VA	202	CYC	CBC-CAC-C3C	2.26	118.21	113.41
12	e7	201	CYC	CHA-C4D-C3D	-2.26	122.36	127.22
12	Q4	201	CYC	CHD-C1D-ND	-2.26	120.18	125.29
12	X3	202	CYC	CHD-C1D-ND	-2.26	120.19	125.29
12	O8	202	CYC	CHD-C1D-ND	-2.26	120.19	125.29
12	X1	202	CYC	CHD-C1D-ND	-2.26	120.19	125.29
12	R1	202	CYC	CBC-CAC-C3C	2.26	118.21	113.41
12	R3	202	CYC	CBC-CAC-C3C	2.26	118.21	113.41
12	P9	201	CYC	C2C-C3C-C4C	2.26	104.72	101.34
12	B4	201	CYC	CHD-C1D-ND	-2.26	120.19	125.29
12	P1	202	CYC	CAA-C2A-C1A	2.26	128.99	125.02
12	P3	202	CYC	CAA-C2A-C1A	2.26	128.99	125.02
12	WA	201	CYC	CHD-C4C-NC	2.26	128.45	125.63
12	W9	201	CYC	CHD-C4C-NC	2.26	128.45	125.63
12	S1	201	CYC	CHD-C4C-NC	2.26	128.45	125.63
12	S3	201	CYC	CHD-C4C-NC	2.26	128.45	125.63
12	D4	201	CYC	CHD-C1D-ND	-2.26	120.19	125.29
12	D8	201	CYC	CHD-C1D-ND	-2.26	120.19	125.29
12	A5	201	CYC	CHA-C4D-C3D	-2.26	122.37	127.22
12	O4	202	CYC	CHD-C1D-ND	-2.26	120.19	125.29
12	Q7	201	CYC	C2C-C1C-NC	2.25	110.16	108.29
12	G7	201	CYC	C2C-C1C-NC	2.25	110.16	108.29
12	K5	201	CYC	CHA-C4D-C3D	-2.25	122.38	127.22
12	M4	301	CYC	C2C-C3C-C4C	2.25	104.71	101.34
12	TA	302	CYC	CBC-CAC-C3C	2.25	118.19	113.41
12	T9	302	CYC	CBC-CAC-C3C	2.25	118.19	113.41
12	O4	201	CYC	C2C-C3C-C4C	2.25	104.71	101.34
12	O8	201	CYC	C2C-C3C-C4C	2.25	104.71	101.34
12	HA	202	CYC	CHD-C4C-NC	2.25	128.44	125.63
12	u7	201	CYC	CHA-C4D-C3D	-2.25	122.38	127.22
12	f7	201	CYC	CHD-C4C-NC	2.25	128.44	125.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	N6	101	CYC	CHD-C4C-NC	2.25	128.44	125.63
12	W4	201	CYC	C2A-C1A-NA	2.25	113.23	110.04
12	W8	201	CYC	C2A-C1A-NA	2.25	113.23	110.04
12	L3	202	CYC	CHD-C4C-NC	2.25	128.44	125.63
12	aA	902	CYC	CHD-C4C-NC	2.25	128.44	125.63
12	F9	302	CYC	CAA-C2A-C1A	2.25	128.97	125.02
12	T9	302	CYC	CAA-C2A-C1A	2.25	128.97	125.02
12	L2	202	CYC	CHD-C1D-ND	-2.25	120.21	125.29
12	Q8	201	CYC	CHD-C1D-ND	-2.25	120.21	125.29
12	N6	101	CYC	C2C-C3C-C4C	2.25	104.71	101.34
12	F3	202	CYC	CBC-CAC-C3C	2.25	118.18	113.41
12	L6	202	CYC	CBC-CAC-C3C	2.25	118.18	113.41
12	F1	202	CYC	CBC-CAC-C3C	2.25	118.18	113.41
12	A7	201	CYC	C2C-C1C-NC	2.25	110.16	108.29
12	FA	301	CYC	CHD-C4C-NC	2.25	128.44	125.63
12	T7	201	CYC	CHD-C4C-NC	2.25	128.44	125.63
12	F9	301	CYC	CHD-C4C-NC	2.25	128.44	125.63
12	k5	1201	CYC	C2B-C1B-NB	2.25	110.25	106.97
12	N2	101	CYC	CHD-C4C-NC	2.25	128.44	125.63
12	a9	901	CYC	CHD-C4C-NC	2.25	128.44	125.63
12	i7	201	CYC	C2C-C1C-NC	2.25	110.16	108.29
12	H6	202	CYC	CHD-C1D-ND	-2.25	120.21	125.29
12	Z8	301	CYC	C2C-C3C-C4C	2.25	104.70	101.34
12	PA	202	CYC	CBC-CAC-C3C	2.25	118.18	113.41
12	P9	202	CYC	CBC-CAC-C3C	2.25	118.18	113.41
12	F9	303	CYC	CAA-C2A-C1A	2.25	128.96	125.02
12	O5	201	CYC	CHA-C4D-C3D	-2.25	122.39	127.22
12	B2	201	CYC	CAA-C2A-C1A	2.24	128.96	125.02
12	a7	201	CYC	CHA-C4D-C3D	-2.24	122.39	127.22
12	KA	201	CYC	CHD-C4C-NC	2.24	128.43	125.63
12	K9	201	CYC	CHD-C4C-NC	2.24	128.43	125.63
12	F9	303	CYC	CBC-CAC-C3C	2.24	118.17	113.41
12	E7	201	CYC	CHA-C4D-C3D	-2.24	122.40	127.22
12	L4	202	CYC	CHD-C4C-NC	2.24	128.43	125.63
12	T5	201	CYC	CHD-C4C-NC	2.24	128.43	125.63
12	DA	201	CYC	C2C-C3C-C4C	2.24	104.70	101.34
12	Y7	201	CYC	CHA-C4D-C3D	-2.24	122.40	127.22
12	i7	201	CYC	CHA-C4D-C3D	-2.24	122.40	127.22
12	J3	202	CYC	CHD-C4C-NC	2.24	128.43	125.63
12	aA	901	CYC	CHD-C4C-NC	2.24	128.43	125.63
12	BA	202	CYC	CBC-CAC-C3C	2.24	118.17	113.41
12	B9	202	CYC	CBC-CAC-C3C	2.24	118.17	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	G4	201	CYC	CHD-C4C-NC	2.24	128.43	125.63
12	G8	201	CYC	CHD-C4C-NC	2.24	128.43	125.63
12	U4	201	CYC	C1A-C2A-C3A	-2.24	104.30	106.73
12	U8	201	CYC	C1A-C2A-C3A	-2.24	104.30	106.73
12	H2	202	CYC	CHD-C1D-ND	-2.24	120.23	125.29
12	B6	201	CYC	CAA-C2A-C1A	2.24	128.95	125.02
12	W4	202	CYC	CBC-CAC-C3C	2.24	118.16	113.41
12	W8	202	CYC	CBC-CAC-C3C	2.24	118.16	113.41
12	D4	202	CYC	CHD-C4C-NC	2.24	128.43	125.63
12	PA	201	CYC	C2C-C3C-C4C	2.24	104.69	101.34
12	Q4	201	CYC	CBC-CAC-C3C	2.24	118.16	113.41
12	RA	202	CYC	CBC-CAC-C3C	2.24	118.16	113.41
12	R9	202	CYC	CBC-CAC-C3C	2.24	118.16	113.41
12	c7	201	CYC	CHA-C4D-C3D	-2.24	122.42	127.22
12	L6	202	CYC	CHD-C1D-ND	-2.24	120.24	125.29
12	N4	201	CYC	CHD-C4C-NC	2.23	128.42	125.63
12	N8	201	CYC	CHD-C4C-NC	2.23	128.42	125.63
12	R1	201	CYC	CHD-C4C-NC	2.23	128.42	125.63
12	R3	201	CYC	CHD-C4C-NC	2.23	128.42	125.63
12	Y7	201	CYC	C2C-C1C-NC	2.23	110.14	108.29
12	Q7	201	CYC	CHA-C4D-C3D	-2.23	122.42	127.22
12	F4	201	CYC	CBC-CAC-C3C	2.23	118.15	113.41
12	F8	201	CYC	CBC-CAC-C3C	2.23	118.15	113.41
12	Q1	201	CYC	CHD-C4C-NC	2.23	128.42	125.63
12	Q3	201	CYC	CHD-C4C-NC	2.23	128.42	125.63
12	b7	201	CYC	CHD-C4C-NC	2.23	128.42	125.63
12	Q8	201	CYC	CBC-CAC-C3C	2.23	118.14	113.41
12	P3	201	CYC	CHD-C4C-NC	2.23	128.41	125.63
12	I4	201	CYC	CHD-C4C-NC	2.23	128.41	125.63
12	J6	202	CYC	C2A-C1A-NA	2.23	113.20	110.04
12	O5	201	CYC	C2C-C1C-NC	2.23	110.14	108.29
12	O4	201	CYC	CHD-C4C-NC	2.23	128.41	125.63
12	TA	302	CYC	CAA-C2A-C1A	2.23	128.93	125.02
12	D6	201	CYC	C2C-C3C-C4C	2.23	104.68	101.34
12	D2	201	CYC	C2C-C3C-C4C	2.23	104.68	101.34
12	PA	201	CYC	CHD-C4C-NC	2.23	128.41	125.63
12	P9	201	CYC	CHD-C4C-NC	2.23	128.41	125.63
12	e7	201	CYC	C2C-C1C-NC	2.23	110.14	108.29
12	M7	201	CYC	CHA-C4D-C3D	-2.23	122.43	127.22
12	ZA	201	CYC	CBC-CAC-C3C	2.23	118.14	113.41
12	P3	202	CYC	CBC-CAC-C3C	2.23	118.14	113.41
12	C7	201	CYC	CHA-C4D-C3D	-2.22	122.44	127.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	P1	202	CYC	CBC-CAC-C3C	2.22	118.13	113.41
12	IA	201	CYC	CHD-C4C-NC	2.22	128.41	125.63
12	T3	302	CYC	CAA-C2A-C1A	2.22	128.92	125.02
12	T1	302	CYC	CAA-C2A-C1A	2.22	128.92	125.02
12	H4	202	CYC	CBC-CAC-C3C	2.22	118.13	113.41
12	H8	202	CYC	CBC-CAC-C3C	2.22	118.13	113.41
12	G5	201	CYC	CHA-C4D-C3D	-2.22	122.44	127.22
12	F5	201	CYC	CHD-C4C-NC	2.22	128.41	125.63
12	I7	201	CYC	CHA-C4D-C3D	-2.22	122.45	127.22
12	Z4	301	CYC	C2C-C3C-C4C	2.22	104.66	101.34
12	P9	202	CYC	CAA-C2A-C1A	2.22	128.92	125.02
12	D8	202	CYC	CHD-C4C-NC	2.22	128.40	125.63
12	K5	201	CYC	C2C-C1C-NC	2.22	110.13	108.29
12	U4	201	CYC	CHD-C4C-NC	2.22	128.40	125.63
12	U8	201	CYC	CHD-C4C-NC	2.22	128.40	125.63
12	D9	201	CYC	C2C-C3C-C4C	2.22	104.66	101.34
12	Z9	201	CYC	CBC-CAC-C3C	2.22	118.12	113.41
12	SA	201	CYC	CHD-C4C-NC	2.22	128.40	125.63
12	S9	201	CYC	CHD-C4C-NC	2.22	128.40	125.63
12	B6	201	CYC	CBC-CAC-C3C	2.22	118.12	113.41
12	C3	201	CYC	CHD-C4C-NC	2.22	128.40	125.63
12	C1	201	CYC	CHD-C4C-NC	2.22	128.40	125.63
12	I9	201	CYC	CHD-C4C-NC	2.22	128.40	125.63
12	C5	201	CYC	CHA-C4D-C3D	-2.22	122.46	127.22
12	D4	202	CYC	C2C-C3C-C4C	2.22	104.66	101.34
12	ZA	201	CYC	CHD-C1D-ND	-2.21	120.29	125.29
12	XA	201	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	K2	201	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	E6	201	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	X9	201	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	e5	201	CYC	C2C-C1C-NC	2.21	110.13	108.29
12	k5	1202	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	d7	201	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	O8	201	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	Z9	201	CYC	CHD-C1D-ND	-2.21	120.29	125.29
12	V4	201	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	V8	201	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	k5	1201	CYC	CBB-CAB-C3B	-2.21	106.42	112.42
12	J2	201	CYC	CAA-C2A-C1A	2.21	128.90	125.02
12	N7	201	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	a5	201	CYC	CHA-C4D-C3D	-2.21	122.47	127.22
12	D8	202	CYC	C2C-C3C-C4C	2.21	104.65	101.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B4	201	CYC	CAA-C2A-C1A	2.21	128.90	125.02
12	T4	201	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	T8	201	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	F9	302	CYC	CBC-CAC-C3C	2.21	118.09	113.41
12	I8	201	CYC	CHD-C4C-NC	2.21	128.39	125.63
12	B2	201	CYC	CBC-CAC-C3C	2.21	118.09	113.41
12	F1	202	CYC	CHD-C1D-ND	-2.21	120.31	125.29
12	U7	201	CYC	C2C-C1C-NC	2.21	110.12	108.29
12	O7	201	CYC	C2C-C1C-NC	2.20	110.12	108.29
12	S4	201	CYC	CAA-C2A-C1A	2.20	128.89	125.02
12	S8	201	CYC	CAA-C2A-C1A	2.20	128.89	125.02
12	TA	302	CYC	CHD-C1D-ND	-2.20	120.32	125.29
12	T9	302	CYC	CHD-C1D-ND	-2.20	120.32	125.29
12	PA	202	CYC	CAA-C2A-C1A	2.20	128.88	125.02
12	F4	201	CYC	CAA-C2A-C1A	2.20	128.88	125.02
12	F8	201	CYC	CAA-C2A-C1A	2.20	128.88	125.02
12	D6	202	CYC	CBC-CAC-C3C	2.20	118.08	113.41
12	D3	202	CYC	CHD-C4C-NC	2.20	128.38	125.63
12	L5	201	CYC	CHD-C4C-NC	2.20	128.38	125.63
12	D1	202	CYC	CHD-C4C-NC	2.20	128.38	125.63
12	P7	201	CYC	CHD-C4C-NC	2.20	128.38	125.63
12	F3	202	CYC	CHD-C1D-ND	-2.20	120.32	125.29
12	W7	201	CYC	C2C-C1C-NC	2.20	110.12	108.29
12	Y5	201	CYC	CHA-C4D-C3D	-2.20	122.49	127.22
12	P1	201	CYC	CHD-C4C-NC	2.20	128.38	125.63
12	A7	201	CYC	CHA-C4D-C3D	-2.20	122.49	127.22
12	BA	201	CYC	C2C-C3C-C4C	2.20	104.63	101.34
12	B9	201	CYC	C2C-C3C-C4C	2.20	104.63	101.34
12	E4	201	CYC	CHD-C4C-NC	2.20	128.38	125.63
12	E8	201	CYC	CHD-C4C-NC	2.20	128.38	125.63
12	B8	201	CYC	CAA-C2A-C1A	2.20	128.88	125.02
12	S7	201	CYC	CHA-C4D-C3D	-2.20	122.50	127.22
12	LA	201	CYC	CHD-C1D-ND	-2.20	120.33	125.29
12	L9	201	CYC	CHD-C1D-ND	-2.20	120.33	125.29
12	J6	201	CYC	CAA-C2A-C1A	2.20	128.88	125.02
12	D2	202	CYC	CBC-CAC-C3C	2.20	118.07	113.41
12	O1	201	CYC	CHD-C4C-NC	2.20	128.37	125.63
12	O3	201	CYC	CHD-C4C-NC	2.20	128.37	125.63
12	M5	201	CYC	CHA-C4D-C3D	-2.20	122.50	127.22
12	c5	201	CYC	CHA-C4D-C3D	-2.20	122.50	127.22
12	P5	201	CYC	CHD-C4C-NC	2.20	128.37	125.63
12	a5	201	CYC	C2C-C1C-NC	2.19	110.11	108.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	X5	201	CYC	CHB-C1B-C2B	-2.19	122.59	126.97
12	L2	201	CYC	CHD-C4C-NC	2.19	128.37	125.63
12	B8	202	CYC	CHD-C4C-NC	2.19	128.37	125.63
12	I5	201	CYC	CHA-C4D-C3D	-2.19	122.50	127.22
12	F4	202	CYC	CHD-C4C-NC	2.19	128.37	125.63
12	F8	202	CYC	CHD-C4C-NC	2.19	128.37	125.63
12	e5	201	CYC	CHA-C4D-C3D	-2.19	122.51	127.22
12	Z3	202	CYC	CMB-C2B-C1B	2.19	126.82	124.16
12	Z1	201	CYC	CMB-C2B-C1B	2.19	126.82	124.16
12	K6	201	CYC	CHD-C4C-NC	2.19	128.36	125.63
12	m7	201	CYC	CHA-C4D-C3D	-2.19	122.52	127.22
12	L6	201	CYC	CHD-C4C-NC	2.19	128.36	125.63
12	B7	201	CYC	CHD-C4C-NC	2.19	128.36	125.63
12	j7	201	CYC	CHD-C4C-NC	2.19	128.36	125.63
12	WA	201	CYC	CAA-C2A-C1A	2.19	128.86	125.02
12	W9	201	CYC	CAA-C2A-C1A	2.19	128.86	125.02
12	q7	201	CYC	CHA-C4D-C3D	-2.19	122.52	127.22
12	G7	201	CYC	CHA-C4D-C3D	-2.19	122.52	127.22
12	EA	201	CYC	CHD-C4C-NC	2.19	128.36	125.63
12	B5	201	CYC	CHD-C4C-NC	2.19	128.36	125.63
12	E9	201	CYC	CHD-C4C-NC	2.19	128.36	125.63
12	L6	202	CYC	CAA-C2A-C1A	2.19	128.86	125.02
12	v7	201	CYC	CHD-C4C-NC	2.19	128.36	125.63
12	H2	202	CYC	CAA-C2A-C1A	2.18	128.86	125.02
12	H6	202	CYC	CAA-C2A-C1A	2.18	128.86	125.02
12	F3	202	CYC	CMB-C2B-C1B	2.18	126.81	124.16
12	F1	202	CYC	CMB-C2B-C1B	2.18	126.81	124.16
12	S5	201	CYC	CHA-C4D-C3D	-2.18	122.53	127.22
12	H5	201	CYC	CHD-C4C-NC	2.18	128.36	125.63
12	JA	202	CYC	CHD-C4C-NC	2.18	128.35	125.63
12	J9	202	CYC	CHD-C4C-NC	2.18	128.35	125.63
12	V3	202	CYC	CMB-C2B-C1B	2.18	126.81	124.16
12	V1	202	CYC	CMB-C2B-C1B	2.18	126.81	124.16
12	H8	202	CYC	CAA-C2A-C1A	2.18	128.85	125.02
12	M8	301	CYC	C2C-C3C-C4C	2.18	104.60	101.34
12	LA	202	CYC	CHD-C4C-NC	2.18	128.35	125.63
12	K3	201	CYC	CHD-C4C-NC	2.18	128.35	125.63
12	L9	202	CYC	CHD-C4C-NC	2.18	128.35	125.63
12	K1	201	CYC	CHD-C4C-NC	2.18	128.35	125.63
12	B3	201	CYC	CAA-C2A-C1A	2.18	128.84	125.02
12	B1	201	CYC	CAA-C2A-C1A	2.18	128.84	125.02
12	W8	202	CYC	CAA-C2A-C1A	2.18	128.84	125.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Z3	202	CYC	CAA-C2A-C1A	2.18	128.84	125.02
12	Z1	201	CYC	CAA-C2A-C1A	2.18	128.84	125.02
12	X4	201	CYC	CHD-C4C-NC	2.18	128.35	125.63
12	X8	201	CYC	CHD-C4C-NC	2.18	128.35	125.63
12	LA	201	CYC	CAA-C2A-C1A	2.18	128.84	125.02
12	L9	201	CYC	CAA-C2A-C1A	2.18	128.84	125.02
12	W4	202	CYC	CAA-C2A-C1A	2.18	128.84	125.02
12	R5	201	CYC	CHB-C1B-C2B	-2.18	122.63	126.97
12	j5	1201	CYC	CBB-CAB-C3B	-2.18	106.52	112.42
12	Q5	201	CYC	C2C-C3C-C4C	2.17	104.60	101.34
12	E5	201	CYC	C2C-C1C-NC	2.17	110.10	108.29
12	CA	201	CYC	CAA-C2A-C1A	2.17	128.84	125.02
12	C9	201	CYC	CAA-C2A-C1A	2.17	128.84	125.02
12	R7	201	CYC	CHD-C4C-NC	2.17	128.34	125.63
12	L7	201	CYC	CHD-C4C-NC	2.17	128.34	125.63
12	k7	201	CYC	CHA-C4D-C3D	-2.17	122.56	127.22
12	AA	201	CYC	CHD-C4C-NC	2.17	128.34	125.63
12	A9	201	CYC	CHD-C4C-NC	2.17	128.34	125.63
12	T1	301	CYC	CHD-C4C-NC	2.17	128.34	125.63
12	s7	201	CYC	CHA-C4D-C3D	-2.17	122.56	127.22
12	U4	202	CYC	CMB-C2B-C1B	2.17	126.80	124.16
12	U8	202	CYC	CMB-C2B-C1B	2.17	126.80	124.16
12	J4	202	CYC	CAA-C2A-C1A	2.17	128.83	125.02
12	J8	202	CYC	CAA-C2A-C1A	2.17	128.83	125.02
12	L2	202	CYC	CAA-C2A-C1A	2.17	128.83	125.02
12	M7	201	CYC	C2C-C3C-C4C	2.17	104.58	101.34
12	H4	202	CYC	CAA-C2A-C1A	2.17	128.82	125.02
12	N7	201	CYC	CHB-C1B-C2B	-2.17	122.65	126.97
12	H7	201	CYC	CHD-C4C-NC	2.17	128.34	125.63
12	H8	201	CYC	CHD-C4C-NC	2.17	128.34	125.63
12	N5	201	CYC	CHD-C4C-NC	2.17	128.33	125.63
12	s7	201	CYC	C2C-C1C-NC	2.16	110.09	108.29
12	E2	201	CYC	CHD-C4C-NC	2.16	128.33	125.63
12	HA	201	CYC	CAA-C2A-C1A	2.16	128.82	125.02
12	H9	201	CYC	CAA-C2A-C1A	2.16	128.82	125.02
12	p7	201	CYC	CHD-C4C-NC	2.16	128.33	125.63
12	B4	202	CYC	C2C-C3C-C4C	2.16	104.58	101.34
12	K2	201	CYC	CAA-C2A-C1A	2.16	128.81	125.02
12	T3	301	CYC	CHD-C4C-NC	2.16	128.33	125.63
12	B8	202	CYC	C2C-C3C-C4C	2.16	104.58	101.34
12	K6	201	CYC	CAA-C2A-C1A	2.16	128.81	125.02
12	H7	201	CYC	CHB-C1B-C2B	-2.16	122.66	126.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	H4	201	CYC	CHD-C4C-NC	2.16	128.33	125.63
12	u7	201	CYC	C2C-C3C-C4C	2.16	104.57	101.34
12	v7	201	CYC	CHB-C1B-C2B	-2.16	122.66	126.97
12	B4	202	CYC	CHD-C4C-NC	2.16	128.33	125.63
12	L3	201	CYC	CAA-C2A-C1A	2.16	128.81	125.02
12	L1	201	CYC	CAA-C2A-C1A	2.16	128.81	125.02
12	V5	201	CYC	CHD-C4C-NC	2.16	128.32	125.63
12	C3	201	CYC	CAA-C2A-C1A	2.16	128.81	125.02
12	C1	201	CYC	CAA-C2A-C1A	2.16	128.81	125.02
12	JA	201	CYC	CAA-C2A-C1A	2.16	128.81	125.02
12	J9	201	CYC	CAA-C2A-C1A	2.16	128.81	125.02
12	P1	201	CYC	C2C-C3C-C4C	2.16	104.57	101.34
12	P3	201	CYC	C2C-C3C-C4C	2.16	104.57	101.34
12	O1	201	CYC	CAA-C2A-C1A	2.16	128.81	125.02
12	O3	201	CYC	CAA-C2A-C1A	2.16	128.81	125.02
12	X1	202	CYC	CAA-C2A-C1A	2.15	128.80	125.02
12	JA	201	CYC	CMB-C2B-C1B	2.15	126.78	124.16
12	J9	201	CYC	CMB-C2B-C1B	2.15	126.78	124.16
12	Y4	201	CYC	CHB-C4A-C3A	2.15	130.41	124.87
12	Y8	201	CYC	CHB-C4A-C3A	2.15	130.41	124.87
12	V7	201	CYC	CHD-C4C-NC	2.15	128.32	125.63
12	L7	201	CYC	CHB-C1B-C2B	-2.15	122.67	126.97
12	o7	201	CYC	C2C-C3C-C4C	2.15	104.56	101.34
12	XA	202	CYC	CMB-C2B-C1B	2.15	126.78	124.16
12	X9	202	CYC	CMB-C2B-C1B	2.15	126.78	124.16
12	F7	201	CYC	CHB-C1B-C2B	-2.15	122.68	126.97
12	k5	1201	CYC	CAD-C3D-C4D	2.15	129.19	125.77
12	D8	201	CYC	CMB-C2B-C1B	2.15	126.78	124.16
12	T8	201	CYC	CAA-C2A-C1A	2.15	128.80	125.02
12	D5	201	CYC	CHB-C1B-C2B	-2.15	122.68	126.97
12	P4	201	CYC	CHD-C4C-NC	2.15	128.32	125.63
12	P8	201	CYC	CHD-C4C-NC	2.15	128.32	125.63
12	W5	201	CYC	C2C-C3C-C4C	2.15	104.56	101.34
12	T4	201	CYC	CAA-C2A-C1A	2.15	128.79	125.02
12	Z5	201	CYC	CHD-C4C-NC	2.15	128.31	125.63
12	Y1	201	CYC	CHD-C4C-NC	2.15	128.31	125.63
12	j5	1201	CYC	CAD-C3D-C4D	2.15	129.18	125.77
12	I6	201	CYC	CAA-C2A-C1A	2.15	128.79	125.02
12	J4	202	CYC	CMB-C2B-C1B	2.15	126.77	124.16
12	X3	202	CYC	CAA-C2A-C1A	2.15	128.79	125.02
12	f5	201	CYC	CHD-C4C-NC	2.15	128.31	125.63
12	AA	201	CYC	CAA-C2A-C1A	2.15	128.79	125.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	D4	201	CYC	CAA-C2A-C1A	2.15	128.79	125.02
12	D8	201	CYC	CAA-C2A-C1A	2.15	128.79	125.02
12	A9	201	CYC	CAA-C2A-C1A	2.15	128.79	125.02
12	H3	201	CYC	CMB-C2B-C1B	2.14	126.77	124.16
12	H1	202	CYC	CMB-C2B-C1B	2.14	126.77	124.16
12	Q8	201	CYC	CAA-C2A-C1A	2.14	128.78	125.02
12	F3	202	CYC	CAA-C2A-C1A	2.14	128.78	125.02
12	F1	202	CYC	CAA-C2A-C1A	2.14	128.78	125.02
12	C7	201	CYC	C2C-C1C-NC	2.14	110.07	108.29
12	R8	201	CYC	CAA-C2A-C1A	2.14	128.78	125.02
12	RA	202	CYC	CMB-C2B-C1B	2.14	126.76	124.16
12	R9	202	CYC	CMB-C2B-C1B	2.14	126.76	124.16
12	X7	201	CYC	CHD-C4C-NC	2.14	128.30	125.63
12	V4	201	CYC	CAA-C2A-C1A	2.14	128.78	125.02
12	V8	201	CYC	CAA-C2A-C1A	2.14	128.78	125.02
12	B7	201	CYC	CHB-C1B-C2B	-2.14	122.70	126.97
12	G6	201	CYC	CAA-C2A-C1A	2.14	128.78	125.02
12	D2	202	CYC	CHB-C4A-C3A	2.14	130.37	124.87
12	BA	202	CYC	CAA-C2A-C1A	2.14	128.78	125.02
12	B9	202	CYC	CAA-C2A-C1A	2.14	128.78	125.02
12	f5	201	CYC	CHB-C1B-C2B	-2.14	122.70	126.97
12	v7	201	CYC	C2C-C3C-C4C	2.14	104.54	101.34
12	b5	201	CYC	CHB-C1B-C2B	-2.14	122.71	126.97
12	R7	201	CYC	CHB-C1B-C2B	-2.14	122.71	126.97
12	p7	201	CYC	CHB-C1B-C2B	-2.14	122.71	126.97
12	I7	201	CYC	C2C-C1C-NC	2.14	110.06	108.29
12	D4	201	CYC	CMB-C2B-C1B	2.14	126.76	124.16
12	H6	201	CYC	CHD-C4C-NC	2.14	128.30	125.63
12	F2	202	CYC	CAA-C2A-C1A	2.14	128.77	125.02
12	R5	201	CYC	C2C-C3C-C4C	2.14	104.54	101.34
12	J3	201	CYC	CAA-C2A-C1A	2.14	128.77	125.02
12	I2	201	CYC	CAA-C2A-C1A	2.13	128.77	125.02
12	R4	201	CYC	CAA-C2A-C1A	2.13	128.77	125.02
12	F6	202	CYC	CAA-C2A-C1A	2.13	128.77	125.02
12	J5	201	CYC	CHB-C1B-C2B	-2.13	122.71	126.97
12	B5	201	CYC	CHB-C1B-C2B	-2.13	122.72	126.97
12	G2	201	CYC	CAA-C2A-C1A	2.13	128.76	125.02
12	I2	201	CYC	CHD-C4C-NC	2.13	128.29	125.63
12	I6	201	CYC	CHD-C4C-NC	2.13	128.29	125.63
12	W3	201	CYC	CAA-C2A-C1A	2.13	128.76	125.02
12	D3	201	CYC	CMB-C2B-C1B	2.13	126.75	124.16
12	D1	201	CYC	CMB-C2B-C1B	2.13	126.75	124.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	J8	202	CYC	CMB-C2B-C1B	2.13	126.75	124.16
12	X5	201	CYC	C2C-C3C-C4C	2.13	104.53	101.34
12	d5	201	CYC	CHD-C4C-NC	2.13	128.29	125.63
12	V3	202	CYC	CAA-C2A-C1A	2.13	128.76	125.02
12	V1	202	CYC	CAA-C2A-C1A	2.13	128.76	125.02
12	C9	201	CYC	C2C-C1C-NC	-2.13	106.51	108.29
12	X7	201	CYC	CHB-C1B-C2B	-2.13	122.72	126.97
12	XA	202	CYC	CAA-C2A-C1A	2.13	128.76	125.02
12	YA	201	CYC	CHD-C4C-NC	2.13	128.29	125.63
12	JA	201	CYC	CHB-C4A-C3A	2.13	130.34	124.87
12	J9	201	CYC	CHB-C4A-C3A	2.13	130.34	124.87
12	L8	201	CYC	CAA-C2A-C1A	2.13	128.75	125.02
12	X4	201	CYC	CAA-C2A-C1A	2.13	128.75	125.02
12	X8	201	CYC	CAA-C2A-C1A	2.13	128.75	125.02
12	C9	201	CYC	CHD-C4C-NC	2.13	128.29	125.63
12	D6	202	CYC	CHB-C4A-C3A	2.13	130.34	124.87
12	F7	201	CYC	CHD-C4C-NC	2.13	128.28	125.63
12	J6	201	CYC	CMB-C2B-C1B	2.13	126.74	124.16
12	g7	201	CYC	C2C-C3C-C4C	2.13	104.52	101.34
12	i7	201	CYC	OC-C1C-NC	2.12	127.43	124.93
12	Y4	201	CYC	CAA-C2A-C1A	2.12	128.75	125.02
12	Y8	201	CYC	CAA-C2A-C1A	2.12	128.75	125.02
12	J1	201	CYC	CAA-C2A-C1A	2.12	128.75	125.02
12	A2	201	CYC	CAA-C2A-C1A	2.12	128.75	125.02
12	P4	201	CYC	CAA-C2A-C1A	2.12	128.75	125.02
12	K8	201	CYC	CAA-C2A-C1A	2.12	128.75	125.02
12	P8	201	CYC	CAA-C2A-C1A	2.12	128.75	125.02
12	Y9	201	CYC	CHD-C4C-NC	2.12	128.28	125.63
12	W3	201	CYC	C2C-C1C-NC	-2.12	106.52	108.29
12	W4	202	CYC	CMB-C2B-C1B	2.12	126.74	124.16
12	W8	202	CYC	CMB-C2B-C1B	2.12	126.74	124.16
12	Y3	201	CYC	CHD-C4C-NC	2.12	128.28	125.63
12	Q4	201	CYC	CAA-C2A-C1A	2.12	128.74	125.02
12	h7	201	CYC	CHB-C1B-C2B	-2.12	122.74	126.97
12	W7	201	CYC	C2C-C3C-C4C	2.12	104.51	101.34
12	X7	201	CYC	C2C-C3C-C4C	2.12	104.51	101.34
12	b7	201	CYC	CHB-C1B-C2B	-2.12	122.74	126.97
12	OA	201	CYC	CAA-C2A-C1A	2.12	128.74	125.02
12	O9	201	CYC	CAA-C2A-C1A	2.12	128.74	125.02
12	f7	201	CYC	CHB-C1B-C2B	-2.12	122.75	126.97
12	W1	201	CYC	C2C-C1C-NC	-2.12	106.52	108.29
12	q7	201	CYC	C2C-C3C-C4C	2.12	104.51	101.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	YA	201	CYC	CAA-C2A-C1A	2.12	128.74	125.02
12	Y9	201	CYC	CAA-C2A-C1A	2.12	128.74	125.02
12	k5	1202	CYC	CHB-C1B-C2B	-2.12	122.75	126.97
12	p7	201	CYC	C2C-C3C-C4C	2.12	104.51	101.34
12	Q9	201	CYC	CHD-C4C-NC	2.12	128.27	125.63
12	D7	201	CYC	CHB-C1B-C2B	-2.12	122.75	126.97
12	k5	1201	CYC	CAA-C2A-C1A	2.11	128.73	125.02
12	b5	201	CYC	CHD-C4C-NC	2.11	128.27	125.63
12	T7	201	CYC	CHB-C1B-C2B	-2.11	122.75	126.97
12	DA	202	CYC	CAA-C2A-C1A	2.11	128.73	125.02
12	D9	202	CYC	CAA-C2A-C1A	2.11	128.73	125.02
12	T5	201	CYC	CHB-C1B-C2B	-2.11	122.75	126.97
12	X9	202	CYC	CAA-C2A-C1A	2.11	128.73	125.02
12	IA	201	CYC	CAA-C2A-C1A	2.11	128.73	125.02
12	UA	201	CYC	CAA-C2A-C1A	2.11	128.73	125.02
12	I9	201	CYC	CAA-C2A-C1A	2.11	128.73	125.02
12	U9	201	CYC	CAA-C2A-C1A	2.11	128.73	125.02
12	Y1	201	CYC	CAA-C2A-C1A	2.11	128.73	125.02
12	PA	202	CYC	CHB-C4A-C3A	2.11	130.30	124.87
12	P9	202	CYC	CHB-C4A-C3A	2.11	130.30	124.87
12	A6	201	CYC	CAA-C2A-C1A	2.11	128.73	125.02
12	W1	201	CYC	CAA-C2A-C1A	2.11	128.73	125.02
12	Q4	201	CYC	CMB-C2B-C1B	2.11	126.73	124.16
12	j5	1201	CYC	CAA-C2A-C1A	2.11	128.73	125.02
12	F7	201	CYC	C2C-C3C-C4C	2.11	104.50	101.34
12	Y3	201	CYC	CAA-C2A-C1A	2.11	128.72	125.02
12	T3	302	CYC	CMB-C2B-C1B	2.11	126.72	124.16
12	T1	302	CYC	CMB-C2B-C1B	2.11	126.72	124.16
12	D9	202	CYC	CHB-C4A-C3A	2.11	130.29	124.87
12	c7	201	CYC	C2C-C3C-C4C	2.11	104.50	101.34
12	D3	201	CYC	CHB-C4A-C3A	2.11	130.29	124.87
12	D1	201	CYC	CHB-C4A-C3A	2.11	130.29	124.87
12	Q7	201	CYC	OC-C1C-NC	2.11	127.42	124.93
12	Q7	201	CYC	C2C-C3C-C4C	2.11	104.50	101.34
12	L4	201	CYC	CAA-C2A-C1A	2.11	128.72	125.02
12	R1	202	CYC	CAA-C2A-C1A	2.11	128.72	125.02
12	F5	201	CYC	CHB-C1B-C2B	-2.11	122.77	126.97
12	k7	201	CYC	C2C-C3C-C4C	2.11	104.49	101.34
12	Y4	201	CYC	CMB-C2B-C1B	2.11	126.72	124.16
12	J1	201	CYC	CMB-C2B-C1B	2.11	126.72	124.16
12	e7	201	CYC	C2C-C3C-C4C	2.11	104.49	101.34
12	N5	201	CYC	CHB-C1B-C2B	-2.10	122.77	126.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	SA	201	CYC	CAA-C2A-C1A	2.10	128.72	125.02
12	CA	201	CYC	CHD-C4C-NC	2.10	128.26	125.63
12	E5	201	CYC	C2C-C3C-C4C	2.10	104.49	101.34
12	P1	202	CYC	CHB-C4A-C3A	2.10	130.28	124.87
12	P3	202	CYC	CHB-C4A-C3A	2.10	130.28	124.87
12	S9	201	CYC	CAA-C2A-C1A	2.10	128.71	125.02
12	H1	202	CYC	CAA-C2A-C1A	2.10	128.71	125.02
12	E5	201	CYC	OC-C1C-NC	2.10	127.41	124.93
12	W7	201	CYC	OC-C1C-NC	2.10	127.41	124.93
12	K4	201	CYC	CAA-C2A-C1A	2.10	128.71	125.02
12	R1	202	CYC	CMB-C2B-C1B	2.10	126.72	124.16
12	R3	202	CYC	CMB-C2B-C1B	2.10	126.72	124.16
12	X5	201	CYC	CHD-C4C-NC	2.10	128.25	125.63
12	A5	201	CYC	C2C-C3C-C4C	2.10	104.49	101.34
12	V7	201	CYC	CHB-C1B-C2B	-2.10	122.78	126.97
12	E4	201	CYC	CAA-C2A-C1A	2.10	128.71	125.02
12	E8	201	CYC	CAA-C2A-C1A	2.10	128.71	125.02
12	Y8	201	CYC	CMB-C2B-C1B	2.10	126.71	124.16
12	H2	201	CYC	CHD-C4C-NC	2.10	128.25	125.63
12	L5	201	CYC	CHB-C1B-C2B	-2.10	122.78	126.97
12	K5	201	CYC	C2C-C3C-C4C	2.10	104.48	101.34
12	DA	202	CYC	CHB-C4A-C3A	2.10	130.26	124.87
12	H6	202	CYC	CMB-C2B-C1B	2.10	126.71	124.16
12	QA	201	CYC	CAA-C2A-C1A	2.10	128.70	125.02
12	H3	201	CYC	CAA-C2A-C1A	2.10	128.70	125.02
12	A8	201	CYC	CAA-C2A-C1A	2.10	128.70	125.02
12	F9	303	CYC	CMB-C2B-C1B	2.10	126.71	124.16
12	J7	201	CYC	CHB-C1B-C2B	-2.10	122.79	126.97
12	R3	202	CYC	CAA-C2A-C1A	2.10	128.70	125.02
12	k5	1204	CYC	CHB-C1B-C2B	-2.10	122.79	126.97
12	c7	201	CYC	OC-C1C-NC	2.10	127.40	124.93
12	G5	201	CYC	C2C-C3C-C4C	2.10	104.48	101.34
12	U4	202	CYC	CAA-C2A-C1A	2.10	128.70	125.02
12	X3	202	CYC	CHB-C4A-C3A	2.10	130.25	124.87
12	X1	202	CYC	CHB-C4A-C3A	2.10	130.25	124.87
12	QA	201	CYC	CHD-C4C-NC	2.09	128.25	125.63
12	K5	201	CYC	OC-C1C-NC	2.09	127.40	124.93
12	B3	202	CYC	CHD-C4C-NC	2.09	128.25	125.63
12	r7	201	CYC	CHD-C4C-NC	2.09	128.25	125.63
12	I7	201	CYC	C2C-C3C-C4C	2.09	104.47	101.34
12	e5	201	CYC	OC-C1C-NC	2.09	127.40	124.93
12	L3	201	CYC	CHB-C4A-C3A	2.09	130.25	124.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	L1	201	CYC	CHB-C4A-C3A	2.09	130.25	124.87
12	Q1	201	CYC	CAA-C2A-C1A	2.09	128.69	125.02
12	Q3	201	CYC	CAA-C2A-C1A	2.09	128.69	125.02
12	Y7	201	CYC	C2C-C3C-C4C	2.09	104.47	101.34
12	A4	201	CYC	CAA-C2A-C1A	2.09	128.69	125.02
12	I1	201	CYC	CAA-C2A-C1A	2.09	128.69	125.02
12	C7	201	CYC	C2C-C3C-C4C	2.09	104.47	101.34
12	R7	201	CYC	C2C-C3C-C4C	2.09	104.47	101.34
12	C6	201	CYC	CHD-C4C-NC	2.09	128.24	125.63
12	K7	201	CYC	C2C-C3C-C4C	2.09	104.47	101.34
12	j5	1202	CYC	CHB-C1B-C2B	-2.09	122.80	126.97
12	H9	201	CYC	CMB-C2B-C1B	2.09	126.70	124.16
12	k5	1203	CYC	CHB-C1B-C2B	-2.09	122.80	126.97
12	O5	201	CYC	C2C-C3C-C4C	2.09	104.47	101.34
12	d7	201	CYC	CHB-C1B-C2B	-2.09	122.80	126.97
12	I3	201	CYC	CAA-C2A-C1A	2.09	128.69	125.02
12	F4	201	CYC	CHB-C4A-C3A	2.09	130.24	124.87
12	F8	201	CYC	CHB-C4A-C3A	2.09	130.24	124.87
12	E7	201	CYC	C2C-C3C-C4C	2.09	104.47	101.34
12	J2	201	CYC	CMB-C2B-C1B	2.09	126.70	124.16
12	F9	302	CYC	CMB-C2B-C1B	2.09	126.70	124.16
12	VA	202	CYC	CAA-C2A-C1A	2.09	128.68	125.02
12	V9	202	CYC	CAA-C2A-C1A	2.09	128.68	125.02
12	CA	201	CYC	C2C-C1C-NC	-2.09	106.55	108.29
12	Q8	201	CYC	CHB-C4A-C3A	2.09	130.23	124.87
12	U5	201	CYC	C2C-C3C-C4C	2.09	104.46	101.34
12	C4	201	CYC	CHD-C4C-NC	2.09	128.24	125.63
12	C8	201	CYC	CHD-C4C-NC	2.09	128.24	125.63
12	P5	201	CYC	CHB-C1B-C2B	-2.09	122.81	126.97
12	j7	201	CYC	CHB-C1B-C2B	-2.09	122.81	126.97
12	BA	202	CYC	CHB-C4A-C3A	2.09	130.23	124.87
12	L6	202	CYC	CHB-C4A-C3A	2.09	130.23	124.87
12	B9	202	CYC	CHB-C4A-C3A	2.09	130.23	124.87
12	Z1	201	CYC	CHB-C4A-C3A	2.09	130.23	124.87
12	P7	201	CYC	C2C-C3C-C4C	2.09	104.46	101.34
12	L2	202	CYC	CHB-C4A-C3A	2.08	130.23	124.87
12	k5	1203	CYC	CHD-C4C-NC	2.08	128.23	125.63
12	U8	202	CYC	CAA-C2A-C1A	2.08	128.68	125.02
12	k5	1201	CYC	C1A-C2A-C3A	-2.08	104.47	106.73
12	M5	201	CYC	C2C-C3C-C4C	2.08	104.46	101.34
12	H2	202	CYC	CMB-C2B-C1B	2.08	126.69	124.16
12	h7	201	CYC	C2C-C3C-C4C	2.08	104.46	101.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	ZA	201	CYC	CAA-C2A-C1A	2.08	128.68	125.02
12	Z9	201	CYC	CAA-C2A-C1A	2.08	128.68	125.02
12	D3	201	CYC	CAA-C2A-C1A	2.08	128.68	125.02
12	D1	201	CYC	CAA-C2A-C1A	2.08	128.68	125.02
12	L5	201	CYC	C2C-C3C-C4C	2.08	104.46	101.34
12	Q9	201	CYC	CAA-C2A-C1A	2.08	128.68	125.02
12	L9	201	CYC	CHB-C4A-C3A	2.08	130.22	124.87
12	I7	201	CYC	OC-C1C-NC	2.08	127.38	124.93
12	i7	201	CYC	C2C-C3C-C4C	2.08	104.46	101.34
12	U7	201	CYC	C2C-C3C-C4C	2.08	104.46	101.34
12	a7	201	CYC	C2C-C3C-C4C	2.08	104.46	101.34
12	EA	201	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	C2	201	CYC	CHD-C4C-NC	2.08	128.23	125.63
12	Z	201	CYC	CHB-C1B-C2B	-2.08	122.82	126.97
12	RA	202	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	I4	201	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	I8	201	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	R9	202	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	J3	201	CYC	CMB-C2B-C1B	2.08	126.69	124.16
12	O7	201	CYC	C2C-C3C-C4C	2.08	104.45	101.34
12	E2	201	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	H5	201	CYC	CHB-C1B-C2B	-2.08	122.82	126.97
12	C7	201	CYC	OC-C1C-NC	2.08	127.38	124.93
12	N4	201	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	N8	201	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	f7	201	CYC	C2C-C3C-C4C	2.08	104.45	101.34
12	K3	201	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	K1	201	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	S4	201	CYC	CMB-C2B-C1B	2.08	126.69	124.16
12	S8	201	CYC	CMB-C2B-C1B	2.08	126.69	124.16
12	ZA	201	CYC	CHB-C4A-C3A	2.08	130.21	124.87
12	Z9	201	CYC	CHB-C4A-C3A	2.08	130.21	124.87
12	A1	201	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	A3	201	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	E6	201	CYC	CAA-C2A-C1A	2.08	128.67	125.02
12	Z3	202	CYC	CHB-C4A-C3A	2.08	130.21	124.87
12	D4	201	CYC	CHB-C4A-C3A	2.08	130.21	124.87
12	D8	201	CYC	CHB-C4A-C3A	2.08	130.21	124.87
12	L7	201	CYC	C2C-C3C-C4C	2.08	104.45	101.34
12	b7	201	CYC	C2C-C3C-C4C	2.08	104.45	101.34
12	GA	201	CYC	CAA-C2A-C1A	2.08	128.66	125.02
12	G9	201	CYC	CAA-C2A-C1A	2.08	128.66	125.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Q4	201	CYC	CHB-C4A-C3A	2.08	130.21	124.87
12	Q8	201	CYC	CMB-C2B-C1B	2.08	126.68	124.16
12	A7	201	CYC	C2C-C3C-C4C	2.08	104.45	101.34
12	U4	202	CYC	CHB-C4A-C3A	2.08	130.20	124.87
12	U8	202	CYC	CHB-C4A-C3A	2.08	130.20	124.87
12	K2	201	CYC	C1B-CHB-C4A	-2.07	122.96	128.06
12	R5	201	CYC	CHD-C4C-NC	2.07	128.22	125.63
12	m7	201	CYC	C2C-C1C-NC	2.07	110.01	108.29
12	U3	201	CYC	CAA-C2A-C1A	2.07	128.66	125.02
12	U1	201	CYC	CAA-C2A-C1A	2.07	128.66	125.02
12	T9	302	CYC	CHB-C4A-C3A	2.07	130.20	124.87
12	F8	202	CYC	CHB-C1B-C2B	-2.07	122.83	126.97
12	LA	201	CYC	CHB-C4A-C3A	2.07	130.20	124.87
12	E9	201	CYC	CAA-C2A-C1A	2.07	128.66	125.02
12	K4	201	CYC	C1B-CHB-C4A	-2.07	122.97	128.06
12	K8	201	CYC	C1B-CHB-C4A	-2.07	122.97	128.06
12	TA	302	CYC	CHB-C4A-C3A	2.07	130.19	124.87
12	V3	202	CYC	CHB-C4A-C3A	2.07	130.19	124.87
12	V1	202	CYC	CHB-C4A-C3A	2.07	130.19	124.87
12	F5	201	CYC	C2C-C3C-C4C	2.07	104.44	101.34
12	H4	202	CYC	CMB-C2B-C1B	2.07	126.68	124.16
12	H8	202	CYC	CMB-C2B-C1B	2.07	126.68	124.16
12	C4	201	CYC	CAA-C2A-C1A	2.07	128.65	125.02
12	C8	201	CYC	CAA-C2A-C1A	2.07	128.65	125.02
12	HA	201	CYC	CMB-C2B-C1B	2.07	126.67	124.16
12	X3	202	CYC	CMB-C2B-C1B	2.07	126.67	124.16
12	X1	202	CYC	CMB-C2B-C1B	2.07	126.67	124.16
12	F2	201	CYC	C1B-CHB-C4A	-2.07	122.97	128.06
12	G4	201	CYC	CAA-C2A-C1A	2.07	128.65	125.02
12	G8	201	CYC	CAA-C2A-C1A	2.07	128.65	125.02
12	K2	201	CYC	C2C-C1C-NC	-2.07	106.56	108.29
12	B4	201	CYC	CMB-C2B-C1B	2.07	126.67	124.16
12	J3	201	CYC	CHB-C4A-C3A	2.07	130.18	124.87
12	J1	201	CYC	CHB-C4A-C3A	2.07	130.18	124.87
12	S5	201	CYC	C2C-C3C-C4C	2.07	104.44	101.34
12	V5	201	CYC	C2C-C3C-C4C	2.07	104.44	101.34
12	G3	201	CYC	CAA-C2A-C1A	2.07	128.65	125.02
12	G1	201	CYC	CAA-C2A-C1A	2.07	128.65	125.02
12	B6	201	CYC	CHB-C4A-C3A	2.07	130.18	124.87
12	V5	201	CYC	CHB-C1B-C2B	-2.07	122.85	126.97
12	RA	202	CYC	CHB-C4A-C3A	2.07	130.18	124.87
12	R9	202	CYC	CHB-C4A-C3A	2.07	130.18	124.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	T4	201	CYC	C1B-CHB-C4A	-2.07	122.98	128.06
12	K6	201	CYC	C1B-CHB-C4A	-2.07	122.98	128.06
12	T8	201	CYC	C1B-CHB-C4A	-2.07	122.98	128.06
12	U7	201	CYC	OC-C1C-NC	2.06	127.36	124.93
12	C5	201	CYC	C2C-C3C-C4C	2.06	104.43	101.34
12	F9	302	CYC	CHB-C4A-C3A	2.06	130.17	124.87
12	T7	201	CYC	C2C-C3C-C4C	2.06	104.43	101.34
12	D6	202	CYC	CAA-C2A-C1A	2.06	128.64	125.02
12	j5	1201	CYC	CHB-C1B-C2B	-2.06	122.85	126.97
12	P7	201	CYC	CHB-C1B-C2B	-2.06	122.85	126.97
12	VA	202	CYC	CHB-C4A-C3A	2.06	130.17	124.87
12	V9	202	CYC	CHB-C4A-C3A	2.06	130.17	124.87
12	ZA	202	CYC	CHB-C1B-C2B	-2.06	122.86	126.97
12	L4	201	CYC	CHB-C4A-C3A	2.06	130.17	124.87
12	L8	201	CYC	CHB-C4A-C3A	2.06	130.17	124.87
12	A	201	CYC	CHB-C1B-C2B	-2.06	122.86	126.97
12	TA	301	CYC	CHD-C4C-NC	2.06	128.20	125.63
12	T9	301	CYC	CHD-C4C-NC	2.06	128.20	125.63
12	AA	201	CYC	C2C-C1C-NC	-2.06	106.57	108.29
12	A9	201	CYC	C2C-C1C-NC	-2.06	106.57	108.29
12	YA	201	CYC	C1B-CHB-C4A	-2.06	123.00	128.06
12	Y9	201	CYC	C1B-CHB-C4A	-2.06	123.00	128.06
12	F4	202	CYC	CHB-C1B-C2B	-2.06	122.86	126.97
12	k5	1201	CYC	CHB-C1B-C2B	-2.06	122.86	126.97
12	Z9	202	CYC	CHB-C1B-C2B	-2.06	122.86	126.97
12	s7	201	CYC	C2C-C3C-C4C	2.06	104.42	101.34
12	F6	202	CYC	CHB-C4A-C3A	2.06	130.16	124.87
12	F2	202	CYC	CHB-C4A-C3A	2.06	130.16	124.87
12	B1	202	CYC	CHB-C1B-C2B	-2.06	122.86	126.97
12	KA	201	CYC	CAA-C2A-C1A	2.06	128.63	125.02
12	K9	201	CYC	CAA-C2A-C1A	2.06	128.63	125.02
12	OA	201	CYC	C1B-CHB-C4A	-2.06	123.00	128.06
12	O9	201	CYC	C1B-CHB-C4A	-2.06	123.00	128.06
12	E9	201	CYC	C1B-CHB-C4A	-2.06	123.00	128.06
12	B2	201	CYC	CHB-C4A-C3A	2.06	130.16	124.87
12	LA	201	CYC	CMB-C2B-C1B	2.06	126.66	124.16
12	L9	201	CYC	CMB-C2B-C1B	2.06	126.66	124.16
12	S7	201	CYC	C2C-C3C-C4C	2.06	104.42	101.34
12	R3	202	CYC	CHB-C4A-C3A	2.06	130.16	124.87
12	m7	201	CYC	C2C-C3C-C4C	2.06	104.42	101.34
12	T9	302	CYC	CMB-C2B-C1B	2.06	126.66	124.16
12	F9	303	CYC	CHB-C4A-C3A	2.06	130.16	124.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	B3	202	CYC	CHB-C1B-C2B	-2.06	122.87	126.97
12	G3	201	CYC	C1B-CHB-C4A	-2.06	123.01	128.06
12	G1	201	CYC	C1B-CHB-C4A	-2.06	123.01	128.06
12	D2	202	CYC	CAA-C2A-C1A	2.06	128.63	125.02
12	Y5	201	CYC	C2C-C3C-C4C	2.05	104.42	101.34
12	H2	202	CYC	CHB-C4A-C3A	2.05	130.15	124.87
12	H6	202	CYC	CHB-C4A-C3A	2.05	130.15	124.87
12	b5	201	CYC	C2C-C3C-C4C	2.05	104.41	101.34
12	D4	202	CYC	CHB-C1B-C2B	-2.05	122.88	126.97
12	D8	202	CYC	CHB-C1B-C2B	-2.05	122.88	126.97
12	f5	201	CYC	C2C-C3C-C4C	2.05	104.41	101.34
12	j7	201	CYC	C2C-C3C-C4C	2.05	104.41	101.34
12	WA	201	CYC	C1B-CHB-C4A	-2.05	123.02	128.06
12	W9	201	CYC	C1B-CHB-C4A	-2.05	123.02	128.06
12	B3	201	CYC	CHB-C4A-C3A	2.05	130.14	124.87
12	B1	201	CYC	CHB-C4A-C3A	2.05	130.14	124.87
12	J4	202	CYC	CHB-C4A-C3A	2.05	130.14	124.87
12	J8	202	CYC	CHB-C4A-C3A	2.05	130.14	124.87
12	Z5	201	CYC	CHB-C1B-C2B	-2.05	122.88	126.97
12	I5	201	CYC	C2C-C3C-C4C	2.05	104.41	101.34
12	B8	201	CYC	CMB-C2B-C1B	2.05	126.65	124.16
12	d5	201	CYC	CHB-C1B-C2B	-2.05	122.88	126.97
12	XA	202	CYC	CHB-C4A-C3A	2.05	130.14	124.87
12	J6	201	CYC	CHB-C4A-C3A	2.05	130.14	124.87
12	F1	202	CYC	CHB-C4A-C3A	2.05	130.14	124.87
12	P1	202	CYC	CMB-C2B-C1B	2.05	126.65	124.16
12	B3	201	CYC	CMB-C2B-C1B	2.05	126.65	124.16
12	P3	202	CYC	CMB-C2B-C1B	2.05	126.65	124.16
12	B1	201	CYC	CMB-C2B-C1B	2.05	126.65	124.16
12	T3	302	CYC	CHB-C4A-C3A	2.05	130.13	124.87
12	S4	201	CYC	CHB-C4A-C3A	2.05	130.13	124.87
12	S8	201	CYC	CHB-C4A-C3A	2.05	130.13	124.87
12	T1	302	CYC	CHB-C4A-C3A	2.05	130.13	124.87
12	k7	201	CYC	OC-C1C-NC	2.05	127.34	124.93
12	r7	201	CYC	CHB-C1B-C2B	-2.05	122.88	126.97
12	F3	201	CYC	CHB-C1B-C2B	-2.05	122.89	126.97
12	F1	201	CYC	CHB-C1B-C2B	-2.05	122.89	126.97
12	B1	202	CYC	CHD-C4C-NC	2.05	128.19	125.63
12	F6	202	CYC	CMB-C2B-C1B	2.05	126.65	124.16
12	K3	201	CYC	C1B-CHB-C4A	-2.05	123.03	128.06
12	X4	201	CYC	C1B-CHB-C4A	-2.05	123.03	128.06
12	K1	201	CYC	C1B-CHB-C4A	-2.05	123.03	128.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	O4	201	CYC	CHB-C1B-C2B	-2.05	122.89	126.97
12	O8	201	CYC	CHB-C1B-C2B	-2.05	122.89	126.97
12	H4	202	CYC	CHB-C4A-C3A	2.05	130.13	124.87
12	H8	202	CYC	CHB-C4A-C3A	2.05	130.13	124.87
12	O1	201	CYC	C1B-CHB-C4A	-2.04	123.03	128.06
12	O3	201	CYC	C1B-CHB-C4A	-2.04	123.03	128.06
12	R1	201	CYC	CHB-C1B-C2B	-2.04	122.89	126.97
12	R3	201	CYC	CHB-C1B-C2B	-2.04	122.89	126.97
12	E3	201	CYC	CAA-C2A-C1A	2.04	128.61	125.02
12	E1	201	CYC	CAA-C2A-C1A	2.04	128.61	125.02
12	R1	202	CYC	CHB-C4A-C3A	2.04	130.12	124.87
12	EA	201	CYC	C1B-CHB-C4A	-2.04	123.04	128.06
12	J2	201	CYC	CHB-C4A-C3A	2.04	130.12	124.87
12	S5	201	CYC	OC-C1C-NC	2.04	127.34	124.93
12	U5	201	CYC	OC-C1C-NC	2.04	127.34	124.93
12	O4	202	CYC	CHB-C4A-C3A	2.04	130.12	124.87
12	O8	202	CYC	CHB-C4A-C3A	2.04	130.12	124.87
12	HA	201	CYC	CHB-C4A-C3A	2.04	130.12	124.87
12	H9	201	CYC	CHB-C4A-C3A	2.04	130.12	124.87
12	F6	201	CYC	C1B-CHB-C4A	-2.04	123.04	128.06
12	j5	1201	CYC	CMD-C2D-C1D	2.04	128.59	125.62
12	a5	201	CYC	OC-C1C-NC	2.04	127.33	124.93
12	F3	202	CYC	CHB-C4A-C3A	2.04	130.11	124.87
12	j5	1201	CYC	C1A-C2A-C3A	-2.04	104.52	106.73
12	B4	202	CYC	CHB-C1B-C2B	-2.04	122.91	126.97
12	VA	202	CYC	CMB-C2B-C1B	2.04	126.64	124.16
12	W4	202	CYC	CHB-C4A-C3A	2.04	130.10	124.87
12	W8	202	CYC	CHB-C4A-C3A	2.04	130.10	124.87
12	U4	201	CYC	CHB-C1B-C2B	-2.04	122.91	126.97
12	U8	201	CYC	CHB-C1B-C2B	-2.04	122.91	126.97
12	X9	202	CYC	CHB-C4A-C3A	2.04	130.10	124.87
12	M5	201	CYC	OC-C1C-NC	2.04	127.33	124.93
12	X3	201	CYC	CHB-C1B-C2B	-2.04	122.91	126.97
12	X1	201	CYC	CHB-C1B-C2B	-2.04	122.91	126.97
12	F4	201	CYC	CMB-C2B-C1B	2.04	126.63	124.16
12	F8	201	CYC	CMB-C2B-C1B	2.04	126.63	124.16
12	PA	202	CYC	CMB-C2B-C1B	2.03	126.63	124.16
12	ZA	201	CYC	CMB-C2B-C1B	2.03	126.63	124.16
12	P9	202	CYC	CMB-C2B-C1B	2.03	126.63	124.16
12	Z9	201	CYC	CMB-C2B-C1B	2.03	126.63	124.16
12	H3	201	CYC	CHB-C4A-C3A	2.03	130.10	124.87
12	H1	202	CYC	CHB-C4A-C3A	2.03	130.10	124.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	Y3	201	CYC	C1B-CHB-C4A	-2.03	123.06	128.06
12	Y1	201	CYC	C1B-CHB-C4A	-2.03	123.06	128.06
12	IA	201	CYC	C1B-CHB-C4A	-2.03	123.06	128.06
12	X8	201	CYC	C1B-CHB-C4A	-2.03	123.06	128.06
12	I9	201	CYC	C1B-CHB-C4A	-2.03	123.06	128.06
12	Z4	301	CYC	CHB-C1B-C2B	-2.03	122.91	126.97
12	aA	901	CYC	CHB-C1B-C2B	-2.03	122.91	126.97
12	AA	201	CYC	C1B-CHB-C4A	-2.03	123.06	128.06
12	DA	202	CYC	CMB-C2B-C1B	2.03	126.63	124.16
12	D9	202	CYC	CMB-C2B-C1B	2.03	126.63	124.16
12	B4	201	CYC	CHB-C4A-C3A	2.03	130.09	124.87
12	B8	201	CYC	CHB-C4A-C3A	2.03	130.09	124.87
12	TA	302	CYC	CMB-C2B-C1B	2.03	126.63	124.16
12	D3	202	CYC	CHB-C1B-C2B	-2.03	122.92	126.97
12	D1	202	CYC	CHB-C1B-C2B	-2.03	122.92	126.97
12	A	201	CYC	C2C-C3C-C4C	2.03	104.38	101.34
12	Z	201	CYC	C2C-C3C-C4C	2.03	104.38	101.34
12	K7	201	CYC	OC-C1C-NC	2.03	127.32	124.93
12	L3	201	CYC	CMB-C2B-C1B	2.03	126.63	124.16
12	L1	201	CYC	CMB-C2B-C1B	2.03	126.63	124.16
12	d7	201	CYC	C2C-C3C-C4C	2.03	104.38	101.34
12	B1	202	CYC	C1B-CHB-C4A	-2.03	123.07	128.06
12	A6	201	CYC	C1B-CHB-C4A	-2.03	123.07	128.06
12	c5	201	CYC	C2C-C3C-C4C	2.03	104.38	101.34
12	e5	201	CYC	C2C-C3C-C4C	2.03	104.38	101.34
12	A1	201	CYC	C1B-CHB-C4A	-2.03	123.07	128.06
12	A3	201	CYC	C1B-CHB-C4A	-2.03	123.07	128.06
12	B3	202	CYC	C1B-CHB-C4A	-2.03	123.07	128.06
12	I4	201	CYC	C1B-CHB-C4A	-2.03	123.07	128.06
12	O4	201	CYC	C1B-CHB-C4A	-2.03	123.07	128.06
12	I8	201	CYC	C1B-CHB-C4A	-2.03	123.07	128.06
12	O8	201	CYC	C1B-CHB-C4A	-2.03	123.07	128.06
12	Z8	301	CYC	CHB-C1B-C2B	-2.03	122.92	126.97
12	P5	201	CYC	C2C-C3C-C4C	2.03	104.38	101.34
12	L2	202	CYC	CMB-C2B-C1B	2.03	126.62	124.16
12	VA	201	CYC	CHB-C1B-C2B	-2.03	122.93	126.97
12	I6	201	CYC	C1B-CHB-C4A	-2.03	123.08	128.06
12	H7	201	CYC	C2C-C3C-C4C	2.03	104.37	101.34
12	P1	201	CYC	CHB-C1B-C2B	-2.03	122.93	126.97
12	P3	201	CYC	CHB-C1B-C2B	-2.03	122.93	126.97
12	C3	201	CYC	C1B-CHB-C4A	-2.02	123.08	128.06
12	C1	201	CYC	C1B-CHB-C4A	-2.02	123.08	128.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	C9	201	CYC	C1B-CHB-C4A	-2.02	123.08	128.06
12	g7	201	CYC	OC-C1C-NC	2.02	127.31	124.93
12	Z1	202	CYC	CHB-C1B-C2B	-2.02	122.93	126.97
12	A4	201	CYC	C1B-CHB-C4A	-2.02	123.09	128.06
12	A8	201	CYC	C1B-CHB-C4A	-2.02	123.09	128.06
12	A9	201	CYC	C1B-CHB-C4A	-2.02	123.09	128.06
12	FA	301	CYC	CHB-C1B-C2B	-2.02	122.93	126.97
12	J3	202	CYC	CHB-C1B-C2B	-2.02	122.93	126.97
12	F9	301	CYC	CHB-C1B-C2B	-2.02	122.93	126.97
12	K6	201	CYC	C2C-C1C-NC	-2.02	106.60	108.29
12	k5	1202	CYC	C2C-C3C-C4C	2.02	104.37	101.34
12	G2	201	CYC	C1B-CHB-C4A	-2.02	123.09	128.06
12	R1	201	CYC	C1B-CHB-C4A	-2.02	123.09	128.06
12	R3	201	CYC	C1B-CHB-C4A	-2.02	123.09	128.06
12	S1	201	CYC	C1B-CHB-C4A	-2.02	123.09	128.06
12	S3	201	CYC	C1B-CHB-C4A	-2.02	123.09	128.06
12	a5	201	CYC	C2C-C3C-C4C	2.02	104.36	101.34
12	CA	201	CYC	C1B-CHB-C4A	-2.02	123.09	128.06
12	L3	202	CYC	CHB-C1B-C2B	-2.02	122.94	126.97
12	V9	201	CYC	CHB-C1B-C2B	-2.02	122.94	126.97
12	B8	202	CYC	CHB-C1B-C2B	-2.02	122.94	126.97
12	FA	301	CYC	C1B-CHB-C4A	-2.02	123.10	128.06
12	F9	301	CYC	C1B-CHB-C4A	-2.02	123.10	128.06
12	U4	201	CYC	C1B-CHB-C4A	-2.02	123.10	128.06
12	U8	201	CYC	C1B-CHB-C4A	-2.02	123.10	128.06
12	G7	201	CYC	C2C-C3C-C4C	2.02	104.36	101.34
12	R4	201	CYC	C1B-CHB-C4A	-2.02	123.11	128.06
12	S1	201	CYC	CAA-C2A-C1A	2.02	128.56	125.02
12	A2	201	CYC	C1B-CHB-C4A	-2.01	123.11	128.06
12	BA	202	CYC	CMB-C2B-C1B	2.01	126.61	124.16
12	KA	201	CYC	C1B-CHB-C4A	-2.01	123.11	128.06
12	G8	201	CYC	C1B-CHB-C4A	-2.01	123.11	128.06
12	K9	201	CYC	C1B-CHB-C4A	-2.01	123.11	128.06
12	BA	201	CYC	CHB-C1B-C2B	-2.01	122.95	126.97
12	B9	201	CYC	CHB-C1B-C2B	-2.01	122.95	126.97
12	aA	902	CYC	CHB-C1B-C2B	-2.01	122.95	126.97
12	W4	201	CYC	CHB-C1B-C2B	-2.01	122.96	126.97
12	W8	201	CYC	CHB-C1B-C2B	-2.01	122.96	126.97
12	SA	201	CYC	C1B-CHB-C4A	-2.01	123.12	128.06
12	S9	201	CYC	C1B-CHB-C4A	-2.01	123.12	128.06
12	Z3	201	CYC	CHB-C1B-C2B	-2.01	122.96	126.97
12	DA	201	CYC	C1B-CHB-C4A	-2.01	123.12	128.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	D9	201	CYC	C1B-CHB-C4A	-2.01	123.12	128.06
12	V9	202	CYC	CMB-C2B-C1B	2.01	126.60	124.16
12	M4	301	CYC	C1B-CHB-C4A	-2.01	123.12	128.06
12	J7	201	CYC	C2C-C3C-C4C	2.01	104.35	101.34
12	LA	202	CYC	CHB-C1B-C2B	-2.01	122.96	126.97
12	k5	1201	CYC	CMD-C2D-C1D	2.01	128.54	125.62
12	k5	1203	CYC	C2C-C3C-C4C	2.01	104.35	101.34
12	D3	202	CYC	C1B-CHB-C4A	-2.01	123.13	128.06
12	D1	202	CYC	C1B-CHB-C4A	-2.01	123.13	128.06
12	DA	201	CYC	CHB-C1B-C2B	-2.01	122.97	126.97
12	GA	201	CYC	C1B-CHB-C4A	-2.01	123.13	128.06
12	E6	201	CYC	C2C-C1C-NC	-2.01	106.62	108.29
12	E2	201	CYC	C2C-C1C-NC	-2.01	106.62	108.29
12	H4	201	CYC	CHB-C1B-C2B	-2.01	122.97	126.97
12	H8	201	CYC	CHB-C1B-C2B	-2.01	122.97	126.97
12	PA	201	CYC	CHB-C1B-C2B	-2.01	122.97	126.97
12	P9	201	CYC	CHB-C1B-C2B	-2.01	122.97	126.97
12	S3	201	CYC	CAA-C2A-C1A	2.00	128.54	125.02
12	R8	201	CYC	C1B-CHB-C4A	-2.00	123.13	128.06
12	I2	201	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	D4	202	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	D8	202	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	F6	201	CYC	CHB-C1B-C2B	-2.00	122.97	126.97
12	W3	201	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	E2	201	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	H1	201	CYC	CHB-C1B-C2B	-2.00	122.97	126.97
12	H2	201	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	B4	202	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	O7	201	CYC	OC-C1C-NC	2.00	127.29	124.93
12	B9	202	CYC	CMB-C2B-C1B	2.00	126.59	124.16
12	E4	201	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	E6	201	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	E8	201	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	M8	301	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	U1	201	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	G4	201	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	V1	201	CYC	CHB-C1B-C2B	-2.00	122.98	126.97
12	UA	201	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	U9	201	CYC	C1B-CHB-C4A	-2.00	123.14	128.06
12	aA	901	CYC	C1B-CHB-C4A	-2.00	123.14	128.06

There are no chirality outliers.

All (2898) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
12	A	201	CYC	NA-C4A-CHB-C1B
12	Z	201	CYC	NA-C4A-CHB-C1B
12	AA	201	CYC	NA-C4A-CHB-C1B
12	AA	201	CYC	C3A-C4A-CHB-C1B
12	AA	201	CYC	C2B-C3B-CAB-CBB
12	AA	201	CYC	C4B-C3B-CAB-CBB
12	BA	201	CYC	NA-C4A-CHB-C1B
12	BA	201	CYC	C3A-C4A-CHB-C1B
12	BA	202	CYC	NA-C4A-CHB-C1B
12	BA	202	CYC	C4C-C3C-CAC-CBC
12	CA	201	CYC	NA-C4A-CHB-C1B
12	CA	201	CYC	C3A-C4A-CHB-C1B
12	CA	201	CYC	C2B-C3B-CAB-CBB
12	CA	201	CYC	C4B-C3B-CAB-CBB
12	DA	201	CYC	NA-C4A-CHB-C1B
12	DA	201	CYC	C3A-C4A-CHB-C1B
12	DA	202	CYC	NA-C4A-CHB-C1B
12	DA	202	CYC	C4C-C3C-CAC-CBC
12	EA	201	CYC	NA-C4A-CHB-C1B
12	EA	201	CYC	C3A-C4A-CHB-C1B
12	EA	201	CYC	C2B-C3B-CAB-CBB
12	EA	201	CYC	C4B-C3B-CAB-CBB
12	FA	301	CYC	NA-C4A-CHB-C1B
12	FA	301	CYC	C3A-C4A-CHB-C1B
12	GA	201	CYC	NA-C4A-CHB-C1B
12	GA	201	CYC	C3A-C4A-CHB-C1B
12	GA	201	CYC	C2B-C3B-CAB-CBB
12	GA	201	CYC	C4B-C3B-CAB-CBB
12	HA	201	CYC	NA-C4A-CHB-C1B
12	HA	201	CYC	C4C-C3C-CAC-CBC
12	HA	202	CYC	NA-C4A-CHB-C1B
12	HA	202	CYC	C3A-C4A-CHB-C1B
12	IA	201	CYC	NA-C4A-CHB-C1B
12	IA	201	CYC	C3A-C4A-CHB-C1B
12	IA	201	CYC	C2B-C3B-CAB-CBB
12	IA	201	CYC	C4B-C3B-CAB-CBB
12	JA	201	CYC	NA-C4A-CHB-C1B
12	JA	201	CYC	C4C-C3C-CAC-CBC
12	JA	202	CYC	NA-C4A-CHB-C1B
12	JA	202	CYC	C3A-C4A-CHB-C1B
12	KA	201	CYC	NA-C4A-CHB-C1B
12	KA	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	KA	201	CYC	C2B-C3B-CAB-CBB
12	KA	201	CYC	C4B-C3B-CAB-CBB
12	LA	201	CYC	NA-C4A-CHB-C1B
12	LA	201	CYC	C4C-C3C-CAC-CBC
12	LA	202	CYC	NA-C4A-CHB-C1B
12	LA	202	CYC	C3A-C4A-CHB-C1B
12	OA	201	CYC	NA-C4A-CHB-C1B
12	OA	201	CYC	C3A-C4A-CHB-C1B
12	OA	201	CYC	C2B-C3B-CAB-CBB
12	OA	201	CYC	C4B-C3B-CAB-CBB
12	PA	201	CYC	NA-C4A-CHB-C1B
12	PA	201	CYC	C3A-C4A-CHB-C1B
12	PA	202	CYC	NA-C4A-CHB-C1B
12	PA	202	CYC	C4C-C3C-CAC-CBC
12	QA	201	CYC	NA-C4A-CHB-C1B
12	QA	201	CYC	C3A-C4A-CHB-C1B
12	QA	201	CYC	C2B-C3B-CAB-CBB
12	QA	201	CYC	C4B-C3B-CAB-CBB
12	RA	201	CYC	NA-C4A-CHB-C1B
12	RA	201	CYC	C3A-C4A-CHB-C1B
12	RA	202	CYC	NA-C4A-CHB-C1B
12	RA	202	CYC	C4C-C3C-CAC-CBC
12	SA	201	CYC	NA-C4A-CHB-C1B
12	SA	201	CYC	C3A-C4A-CHB-C1B
12	SA	201	CYC	C2B-C3B-CAB-CBB
12	SA	201	CYC	C4B-C3B-CAB-CBB
12	TA	301	CYC	NA-C4A-CHB-C1B
12	TA	301	CYC	C3A-C4A-CHB-C1B
12	TA	302	CYC	NA-C4A-CHB-C1B
12	TA	302	CYC	C4C-C3C-CAC-CBC
12	UA	201	CYC	NA-C4A-CHB-C1B
12	UA	201	CYC	C3A-C4A-CHB-C1B
12	UA	201	CYC	C2B-C3B-CAB-CBB
12	UA	201	CYC	C4B-C3B-CAB-CBB
12	VA	201	CYC	NA-C4A-CHB-C1B
12	VA	201	CYC	C3A-C4A-CHB-C1B
12	VA	202	CYC	NA-C4A-CHB-C1B
12	VA	202	CYC	C4C-C3C-CAC-CBC
12	WA	201	CYC	NA-C4A-CHB-C1B
12	WA	201	CYC	C3A-C4A-CHB-C1B
12	WA	201	CYC	C2B-C3B-CAB-CBB
12	WA	201	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
12	XA	201	CYC	NA-C4A-CHB-C1B
12	XA	201	CYC	C3A-C4A-CHB-C1B
12	XA	202	CYC	NA-C4A-CHB-C1B
12	XA	202	CYC	C4C-C3C-CAC-CBC
12	YA	201	CYC	NA-C4A-CHB-C1B
12	YA	201	CYC	C3A-C4A-CHB-C1B
12	YA	201	CYC	C2B-C3B-CAB-CBB
12	YA	201	CYC	C4B-C3B-CAB-CBB
12	ZA	201	CYC	NA-C4A-CHB-C1B
12	ZA	201	CYC	C4C-C3C-CAC-CBC
12	ZA	202	CYC	NA-C4A-CHB-C1B
12	ZA	202	CYC	C3A-C4A-CHB-C1B
12	O1	201	CYC	NA-C4A-CHB-C1B
12	O1	201	CYC	C3A-C4A-CHB-C1B
12	O1	201	CYC	C2B-C3B-CAB-CBB
12	O1	201	CYC	C4B-C3B-CAB-CBB
12	P1	201	CYC	NA-C4A-CHB-C1B
12	P1	201	CYC	C3A-C4A-CHB-C1B
12	P1	202	CYC	NA-C4A-CHB-C1B
12	P1	202	CYC	C4C-C3C-CAC-CBC
12	Q1	201	CYC	NA-C4A-CHB-C1B
12	Q1	201	CYC	C3A-C4A-CHB-C1B
12	Q1	201	CYC	C2B-C3B-CAB-CBB
12	Q1	201	CYC	C4B-C3B-CAB-CBB
12	R1	201	CYC	NA-C4A-CHB-C1B
12	R1	201	CYC	C3A-C4A-CHB-C1B
12	R1	202	CYC	NA-C4A-CHB-C1B
12	R1	202	CYC	C4C-C3C-CAC-CBC
12	S1	201	CYC	NA-C4A-CHB-C1B
12	S1	201	CYC	C3A-C4A-CHB-C1B
12	S1	201	CYC	C2B-C3B-CAB-CBB
12	S1	201	CYC	C4B-C3B-CAB-CBB
12	A1	201	CYC	NA-C4A-CHB-C1B
12	A1	201	CYC	C3A-C4A-CHB-C1B
12	A1	201	CYC	C2B-C3B-CAB-CBB
12	A1	201	CYC	C4B-C3B-CAB-CBB
12	G3	201	CYC	NA-C4A-CHB-C1B
12	G3	201	CYC	C3A-C4A-CHB-C1B
12	G3	201	CYC	C2B-C3B-CAB-CBB
12	G3	201	CYC	C4B-C3B-CAB-CBB
12	H3	201	CYC	NA-C4A-CHB-C1B
12	H3	201	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
12	H3	202	CYC	NA-C4A-CHB-C1B
12	H3	202	CYC	C3A-C4A-CHB-C1B
12	I3	201	CYC	NA-C4A-CHB-C1B
12	I3	201	CYC	C3A-C4A-CHB-C1B
12	I3	201	CYC	C2B-C3B-CAB-CBB
12	I3	201	CYC	C4B-C3B-CAB-CBB
12	J3	201	CYC	NA-C4A-CHB-C1B
12	J3	201	CYC	C4C-C3C-CAC-CBC
12	J3	202	CYC	NA-C4A-CHB-C1B
12	J3	202	CYC	C3A-C4A-CHB-C1B
12	K3	201	CYC	NA-C4A-CHB-C1B
12	K3	201	CYC	C3A-C4A-CHB-C1B
12	K3	201	CYC	C2B-C3B-CAB-CBB
12	K3	201	CYC	C4B-C3B-CAB-CBB
12	G2	201	CYC	NA-C4A-CHB-C1B
12	G2	201	CYC	C3A-C4A-CHB-C1B
12	G2	201	CYC	C2B-C3B-CAB-CBB
12	G2	201	CYC	C4B-C3B-CAB-CBB
12	H2	201	CYC	NA-C4A-CHB-C1B
12	H2	201	CYC	C3A-C4A-CHB-C1B
12	H2	202	CYC	NA-C4A-CHB-C1B
12	H2	202	CYC	C4C-C3C-CAC-CBC
12	I2	201	CYC	NA-C4A-CHB-C1B
12	I2	201	CYC	C3A-C4A-CHB-C1B
12	I2	201	CYC	C2B-C3B-CAB-CBB
12	I2	201	CYC	C4B-C3B-CAB-CBB
12	J2	201	CYC	NA-C4A-CHB-C1B
12	J2	201	CYC	C4C-C3C-CAC-CBC
12	J2	202	CYC	NA-C4A-CHB-C1B
12	J2	202	CYC	C3A-C4A-CHB-C1B
12	K2	201	CYC	NA-C4A-CHB-C1B
12	K2	201	CYC	C3A-C4A-CHB-C1B
12	K2	201	CYC	C2B-C3B-CAB-CBB
12	K2	201	CYC	C4B-C3B-CAB-CBB
12	L2	201	CYC	NA-C4A-CHB-C1B
12	L2	201	CYC	C3A-C4A-CHB-C1B
12	L2	202	CYC	NA-C4A-CHB-C1B
12	L2	202	CYC	C4C-C3C-CAC-CBC
12	N2	101	CYC	NA-C4A-CHB-C1B
12	N2	101	CYC	C3A-C4A-CHB-C1B
12	A3	201	CYC	NA-C4A-CHB-C1B
12	A3	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	A3	201	CYC	C2B-C3B-CAB-CBB
12	A3	201	CYC	C4B-C3B-CAB-CBB
12	B3	201	CYC	NA-C4A-CHB-C1B
12	B3	201	CYC	C4C-C3C-CAC-CBC
12	B3	202	CYC	NA-C4A-CHB-C1B
12	B3	202	CYC	C3A-C4A-CHB-C1B
12	C3	201	CYC	NA-C4A-CHB-C1B
12	C3	201	CYC	C3A-C4A-CHB-C1B
12	C3	201	CYC	C2B-C3B-CAB-CBB
12	C3	201	CYC	C4B-C3B-CAB-CBB
12	D3	201	CYC	NA-C4A-CHB-C1B
12	D3	201	CYC	C4C-C3C-CAC-CBC
12	D3	202	CYC	NA-C4A-CHB-C1B
12	D3	202	CYC	C3A-C4A-CHB-C1B
12	E3	201	CYC	NA-C4A-CHB-C1B
12	E3	201	CYC	C3A-C4A-CHB-C1B
12	E3	201	CYC	C2B-C3B-CAB-CBB
12	E3	201	CYC	C4B-C3B-CAB-CBB
12	F3	201	CYC	NA-C4A-CHB-C1B
12	F3	201	CYC	C3A-C4A-CHB-C1B
12	F3	202	CYC	NA-C4A-CHB-C1B
12	F3	202	CYC	C4C-C3C-CAC-CBC
12	Z3	201	CYC	NA-C4A-CHB-C1B
12	Z3	201	CYC	C3A-C4A-CHB-C1B
12	Z3	202	CYC	NA-C4A-CHB-C1B
12	Z3	202	CYC	C4C-C3C-CAC-CBC
12	A4	201	CYC	NA-C4A-CHB-C1B
12	A4	201	CYC	C3A-C4A-CHB-C1B
12	A4	201	CYC	C2B-C3B-CAB-CBB
12	A4	201	CYC	C4B-C3B-CAB-CBB
12	B4	201	CYC	NA-C4A-CHB-C1B
12	B4	201	CYC	C4C-C3C-CAC-CBC
12	B4	202	CYC	NA-C4A-CHB-C1B
12	B4	202	CYC	C3A-C4A-CHB-C1B
12	C4	201	CYC	NA-C4A-CHB-C1B
12	C4	201	CYC	C3A-C4A-CHB-C1B
12	C4	201	CYC	C2B-C3B-CAB-CBB
12	C4	201	CYC	C4B-C3B-CAB-CBB
12	D4	201	CYC	NA-C4A-CHB-C1B
12	D4	201	CYC	C4C-C3C-CAC-CBC
12	D4	202	CYC	NA-C4A-CHB-C1B
12	D4	202	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	L3	201	CYC	NA-C4A-CHB-C1B
12	L3	201	CYC	C4C-C3C-CAC-CBC
12	L3	202	CYC	NA-C4A-CHB-C1B
12	L3	202	CYC	C3A-C4A-CHB-C1B
12	O3	201	CYC	NA-C4A-CHB-C1B
12	O3	201	CYC	C3A-C4A-CHB-C1B
12	O3	201	CYC	C2B-C3B-CAB-CBB
12	O3	201	CYC	C4B-C3B-CAB-CBB
12	P3	201	CYC	NA-C4A-CHB-C1B
12	P3	201	CYC	C3A-C4A-CHB-C1B
12	P3	202	CYC	NA-C4A-CHB-C1B
12	P3	202	CYC	C4C-C3C-CAC-CBC
12	Q3	201	CYC	NA-C4A-CHB-C1B
12	Q3	201	CYC	C3A-C4A-CHB-C1B
12	Q3	201	CYC	C2B-C3B-CAB-CBB
12	Q3	201	CYC	C4B-C3B-CAB-CBB
12	R3	201	CYC	NA-C4A-CHB-C1B
12	R3	201	CYC	C3A-C4A-CHB-C1B
12	R3	202	CYC	NA-C4A-CHB-C1B
12	R3	202	CYC	C4C-C3C-CAC-CBC
12	S3	201	CYC	NA-C4A-CHB-C1B
12	S3	201	CYC	C3A-C4A-CHB-C1B
12	S3	201	CYC	C2B-C3B-CAB-CBB
12	S3	201	CYC	C4B-C3B-CAB-CBB
12	T3	301	CYC	NA-C4A-CHB-C1B
12	T3	301	CYC	C3A-C4A-CHB-C1B
12	T3	302	CYC	NA-C4A-CHB-C1B
12	T3	302	CYC	C4C-C3C-CAC-CBC
12	U3	201	CYC	NA-C4A-CHB-C1B
12	U3	201	CYC	C3A-C4A-CHB-C1B
12	U3	201	CYC	C2B-C3B-CAB-CBB
12	U3	201	CYC	C4B-C3B-CAB-CBB
12	V3	201	CYC	NA-C4A-CHB-C1B
12	V3	201	CYC	C3A-C4A-CHB-C1B
12	V3	202	CYC	NA-C4A-CHB-C1B
12	V3	202	CYC	C4C-C3C-CAC-CBC
12	W3	201	CYC	NA-C4A-CHB-C1B
12	W3	201	CYC	C3A-C4A-CHB-C1B
12	W3	201	CYC	C2B-C3B-CAB-CBB
12	W3	201	CYC	C4B-C3B-CAB-CBB
12	X3	201	CYC	NA-C4A-CHB-C1B
12	X3	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	X3	202	CYC	NA-C4A-CHB-C1B
12	X3	202	CYC	C4C-C3C-CAC-CBC
12	Y3	201	CYC	NA-C4A-CHB-C1B
12	Y3	201	CYC	C3A-C4A-CHB-C1B
12	Y3	201	CYC	C2B-C3B-CAB-CBB
12	Y3	201	CYC	C4B-C3B-CAB-CBB
12	B1	201	CYC	NA-C4A-CHB-C1B
12	B1	201	CYC	C4C-C3C-CAC-CBC
12	B1	202	CYC	NA-C4A-CHB-C1B
12	B1	202	CYC	C3A-C4A-CHB-C1B
12	S4	201	CYC	NA-C4A-CHB-C1B
12	S4	201	CYC	C4C-C3C-CAC-CBC
12	S4	202	CYC	NA-C4A-CHB-C1B
12	S4	202	CYC	C3A-C4A-CHB-C1B
12	T4	201	CYC	NA-C4A-CHB-C1B
12	T4	201	CYC	C3A-C4A-CHB-C1B
12	T4	201	CYC	C2B-C3B-CAB-CBB
12	T4	201	CYC	C4B-C3B-CAB-CBB
12	U4	201	CYC	NA-C4A-CHB-C1B
12	U4	201	CYC	C3A-C4A-CHB-C1B
12	U4	202	CYC	NA-C4A-CHB-C1B
12	U4	202	CYC	C4C-C3C-CAC-CBC
12	V4	201	CYC	NA-C4A-CHB-C1B
12	V4	201	CYC	C3A-C4A-CHB-C1B
12	V4	201	CYC	C2B-C3B-CAB-CBB
12	V4	201	CYC	C4B-C3B-CAB-CBB
12	W4	201	CYC	NA-C4A-CHB-C1B
12	W4	201	CYC	C3A-C4A-CHB-C1B
12	W4	202	CYC	NA-C4A-CHB-C1B
12	W4	202	CYC	C4C-C3C-CAC-CBC
12	E4	201	CYC	NA-C4A-CHB-C1B
12	E4	201	CYC	C3A-C4A-CHB-C1B
12	E4	201	CYC	C2B-C3B-CAB-CBB
12	E4	201	CYC	C4B-C3B-CAB-CBB
12	F4	201	CYC	NA-C4A-CHB-C1B
12	F4	201	CYC	C4C-C3C-CAC-CBC
12	F4	202	CYC	NA-C4A-CHB-C1B
12	F4	202	CYC	C3A-C4A-CHB-C1B
12	G4	201	CYC	NA-C4A-CHB-C1B
12	G4	201	CYC	C3A-C4A-CHB-C1B
12	G4	201	CYC	C2B-C3B-CAB-CBB
12	G4	201	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
12	H4	201	CYC	NA-C4A-CHB-C1B
12	H4	201	CYC	C3A-C4A-CHB-C1B
12	H4	202	CYC	NA-C4A-CHB-C1B
12	H4	202	CYC	C4C-C3C-CAC-CBC
12	I4	201	CYC	NA-C4A-CHB-C1B
12	I4	201	CYC	C3A-C4A-CHB-C1B
12	I4	201	CYC	C2B-C3B-CAB-CBB
12	I4	201	CYC	C4B-C3B-CAB-CBB
12	J4	201	CYC	NA-C4A-CHB-C1B
12	J4	201	CYC	C3A-C4A-CHB-C1B
12	J4	202	CYC	NA-C4A-CHB-C1B
12	J4	202	CYC	C4C-C3C-CAC-CBC
12	K4	201	CYC	NA-C4A-CHB-C1B
12	K4	201	CYC	C3A-C4A-CHB-C1B
12	K4	201	CYC	C2B-C3B-CAB-CBB
12	K4	201	CYC	C4B-C3B-CAB-CBB
12	L4	201	CYC	NA-C4A-CHB-C1B
12	L4	201	CYC	C4C-C3C-CAC-CBC
12	L4	202	CYC	NA-C4A-CHB-C1B
12	L4	202	CYC	C3A-C4A-CHB-C1B
12	M4	301	CYC	NA-C4A-CHB-C1B
12	M4	301	CYC	C3A-C4A-CHB-C1B
12	N4	201	CYC	NA-C4A-CHB-C1B
12	N4	201	CYC	C3A-C4A-CHB-C1B
12	N4	201	CYC	C2B-C3B-CAB-CBB
12	N4	201	CYC	C4B-C3B-CAB-CBB
12	O4	201	CYC	NA-C4A-CHB-C1B
12	O4	201	CYC	C3A-C4A-CHB-C1B
12	O4	202	CYC	NA-C4A-CHB-C1B
12	O4	202	CYC	C4C-C3C-CAC-CBC
12	P4	201	CYC	NA-C4A-CHB-C1B
12	P4	201	CYC	C3A-C4A-CHB-C1B
12	P4	201	CYC	C2B-C3B-CAB-CBB
12	P4	201	CYC	C4B-C3B-CAB-CBB
12	Q4	201	CYC	NA-C4A-CHB-C1B
12	Q4	201	CYC	C4C-C3C-CAC-CBC
12	R4	201	CYC	NA-C4A-CHB-C1B
12	R4	201	CYC	C3A-C4A-CHB-C1B
12	R4	201	CYC	C2B-C3B-CAB-CBB
12	R4	201	CYC	C4B-C3B-CAB-CBB
12	L5	201	CYC	NA-C4A-CHB-C1B
12	N5	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	X4	201	CYC	NA-C4A-CHB-C1B
12	X4	201	CYC	C3A-C4A-CHB-C1B
12	X4	201	CYC	C2B-C3B-CAB-CBB
12	X4	201	CYC	C4B-C3B-CAB-CBB
12	Y4	201	CYC	NA-C4A-CHB-C1B
12	Y4	201	CYC	C4C-C3C-CAC-CBC
12	Z4	301	CYC	NA-C4A-CHB-C1B
12	Z4	301	CYC	C3A-C4A-CHB-C1B
12	B5	201	CYC	NA-C4A-CHB-C1B
12	D5	201	CYC	NA-C4A-CHB-C1B
12	F5	201	CYC	NA-C4A-CHB-C1B
12	H5	201	CYC	NA-C4A-CHB-C1B
12	J5	201	CYC	NA-C4A-CHB-C1B
12	C1	201	CYC	NA-C4A-CHB-C1B
12	C1	201	CYC	C3A-C4A-CHB-C1B
12	C1	201	CYC	C2B-C3B-CAB-CBB
12	C1	201	CYC	C4B-C3B-CAB-CBB
12	d5	201	CYC	NA-C4A-CHB-C1B
12	f5	201	CYC	NA-C4A-CHB-C1B
12	P5	201	CYC	NA-C4A-CHB-C1B
12	R5	201	CYC	NA-C4A-CHB-C1B
12	T5	201	CYC	NA-C4A-CHB-C1B
12	V5	201	CYC	NA-C4A-CHB-C1B
12	X5	201	CYC	NA-C4A-CHB-C1B
12	Z5	201	CYC	NA-C4A-CHB-C1B
12	b5	201	CYC	NA-C4A-CHB-C1B
12	J6	201	CYC	NA-C4A-CHB-C1B
12	J6	201	CYC	C4C-C3C-CAC-CBC
12	J6	202	CYC	NA-C4A-CHB-C1B
12	J6	202	CYC	C3A-C4A-CHB-C1B
12	K6	201	CYC	NA-C4A-CHB-C1B
12	K6	201	CYC	C3A-C4A-CHB-C1B
12	K6	201	CYC	C2B-C3B-CAB-CBB
12	K6	201	CYC	C4B-C3B-CAB-CBB
12	L6	201	CYC	NA-C4A-CHB-C1B
12	L6	201	CYC	C3A-C4A-CHB-C1B
12	L6	202	CYC	NA-C4A-CHB-C1B
12	L6	202	CYC	C4C-C3C-CAC-CBC
12	N6	101	CYC	NA-C4A-CHB-C1B
12	N6	101	CYC	C3A-C4A-CHB-C1B
12	j5	1201	CYC	NA-C4A-CHB-C1B
12	j5	1201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	j5	1202	CYC	NA-C4A-CHB-C1B
12	k5	1201	CYC	NA-C4A-CHB-C1B
12	k5	1201	CYC	C3A-C4A-CHB-C1B
12	k5	1202	CYC	NA-C4A-CHB-C1B
12	k5	1203	CYC	NA-C4A-CHB-C1B
12	k5	1204	CYC	NA-C4A-CHB-C1B
12	A6	201	CYC	NA-C4A-CHB-C1B
12	A6	201	CYC	C3A-C4A-CHB-C1B
12	A6	201	CYC	C2B-C3B-CAB-CBB
12	A6	201	CYC	C4B-C3B-CAB-CBB
12	B6	201	CYC	NA-C4A-CHB-C1B
12	B6	201	CYC	C4C-C3C-CAC-CBC
12	C6	201	CYC	NA-C4A-CHB-C1B
12	C6	201	CYC	C3A-C4A-CHB-C1B
12	C6	201	CYC	C2B-C3B-CAB-CBB
12	C6	201	CYC	C4B-C3B-CAB-CBB
12	D6	201	CYC	NA-C4A-CHB-C1B
12	D6	201	CYC	C3A-C4A-CHB-C1B
12	D6	202	CYC	NA-C4A-CHB-C1B
12	D6	202	CYC	C4C-C3C-CAC-CBC
12	E6	201	CYC	NA-C4A-CHB-C1B
12	E6	201	CYC	C3A-C4A-CHB-C1B
12	E6	201	CYC	C2B-C3B-CAB-CBB
12	E6	201	CYC	C4B-C3B-CAB-CBB
12	F6	201	CYC	NA-C4A-CHB-C1B
12	F6	201	CYC	C3A-C4A-CHB-C1B
12	F6	202	CYC	NA-C4A-CHB-C1B
12	F6	202	CYC	C4C-C3C-CAC-CBC
12	G6	201	CYC	NA-C4A-CHB-C1B
12	G6	201	CYC	C3A-C4A-CHB-C1B
12	G6	201	CYC	C2B-C3B-CAB-CBB
12	G6	201	CYC	C4B-C3B-CAB-CBB
12	H6	201	CYC	NA-C4A-CHB-C1B
12	H6	201	CYC	C3A-C4A-CHB-C1B
12	H6	202	CYC	NA-C4A-CHB-C1B
12	H6	202	CYC	C4C-C3C-CAC-CBC
12	I6	201	CYC	NA-C4A-CHB-C1B
12	I6	201	CYC	C3A-C4A-CHB-C1B
12	I6	201	CYC	C2B-C3B-CAB-CBB
12	I6	201	CYC	C4B-C3B-CAB-CBB
12	D1	201	CYC	NA-C4A-CHB-C1B
12	D1	201	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
12	D1	202	CYC	NA-C4A-CHB-C1B
12	D1	202	CYC	C3A-C4A-CHB-C1B
12	P7	201	CYC	NA-C4A-CHB-C1B
12	R7	201	CYC	NA-C4A-CHB-C1B
12	B7	201	CYC	NA-C4A-CHB-C1B
12	D7	201	CYC	NA-C4A-CHB-C1B
12	F7	201	CYC	NA-C4A-CHB-C1B
12	H7	201	CYC	NA-C4A-CHB-C1B
12	J7	201	CYC	NA-C4A-CHB-C1B
12	L7	201	CYC	NA-C4A-CHB-C1B
12	N7	201	CYC	NA-C4A-CHB-C1B
12	h7	201	CYC	NA-C4A-CHB-C1B
12	j7	201	CYC	NA-C4A-CHB-C1B
12	T7	201	CYC	NA-C4A-CHB-C1B
12	V7	201	CYC	NA-C4A-CHB-C1B
12	X7	201	CYC	NA-C4A-CHB-C1B
12	b7	201	CYC	NA-C4A-CHB-C1B
12	d7	201	CYC	NA-C4A-CHB-C1B
12	f7	201	CYC	NA-C4A-CHB-C1B
12	E1	201	CYC	NA-C4A-CHB-C1B
12	E1	201	CYC	C3A-C4A-CHB-C1B
12	E1	201	CYC	C2B-C3B-CAB-CBB
12	E1	201	CYC	C4B-C3B-CAB-CBB
12	A8	201	CYC	NA-C4A-CHB-C1B
12	A8	201	CYC	C3A-C4A-CHB-C1B
12	A8	201	CYC	C2B-C3B-CAB-CBB
12	A8	201	CYC	C4B-C3B-CAB-CBB
12	B8	201	CYC	NA-C4A-CHB-C1B
12	B8	201	CYC	C4C-C3C-CAC-CBC
12	B8	202	CYC	NA-C4A-CHB-C1B
12	B8	202	CYC	C3A-C4A-CHB-C1B
12	C8	201	CYC	NA-C4A-CHB-C1B
12	C8	201	CYC	C3A-C4A-CHB-C1B
12	C8	201	CYC	C2B-C3B-CAB-CBB
12	C8	201	CYC	C4B-C3B-CAB-CBB
12	D8	201	CYC	NA-C4A-CHB-C1B
12	D8	201	CYC	C4C-C3C-CAC-CBC
12	D8	202	CYC	NA-C4A-CHB-C1B
12	D8	202	CYC	C3A-C4A-CHB-C1B
12	E8	201	CYC	NA-C4A-CHB-C1B
12	E8	201	CYC	C3A-C4A-CHB-C1B
12	E8	201	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
12	E8	201	CYC	C4B-C3B-CAB-CBB
12	p7	201	CYC	NA-C4A-CHB-C1B
12	r7	201	CYC	NA-C4A-CHB-C1B
12	v7	201	CYC	NA-C4A-CHB-C1B
12	T8	201	CYC	NA-C4A-CHB-C1B
12	T8	201	CYC	C3A-C4A-CHB-C1B
12	T8	201	CYC	C2B-C3B-CAB-CBB
12	T8	201	CYC	C4B-C3B-CAB-CBB
12	U8	201	CYC	NA-C4A-CHB-C1B
12	U8	201	CYC	C3A-C4A-CHB-C1B
12	U8	202	CYC	NA-C4A-CHB-C1B
12	U8	202	CYC	C4C-C3C-CAC-CBC
12	V8	201	CYC	NA-C4A-CHB-C1B
12	V8	201	CYC	C3A-C4A-CHB-C1B
12	V8	201	CYC	C2B-C3B-CAB-CBB
12	V8	201	CYC	C4B-C3B-CAB-CBB
12	W8	201	CYC	NA-C4A-CHB-C1B
12	W8	201	CYC	C3A-C4A-CHB-C1B
12	W8	202	CYC	NA-C4A-CHB-C1B
12	W8	202	CYC	C4C-C3C-CAC-CBC
12	X8	201	CYC	NA-C4A-CHB-C1B
12	X8	201	CYC	C3A-C4A-CHB-C1B
12	X8	201	CYC	C2B-C3B-CAB-CBB
12	X8	201	CYC	C4B-C3B-CAB-CBB
12	F8	201	CYC	NA-C4A-CHB-C1B
12	F8	201	CYC	C4C-C3C-CAC-CBC
12	F8	202	CYC	NA-C4A-CHB-C1B
12	F8	202	CYC	C3A-C4A-CHB-C1B
12	G8	201	CYC	NA-C4A-CHB-C1B
12	G8	201	CYC	C3A-C4A-CHB-C1B
12	G8	201	CYC	C2B-C3B-CAB-CBB
12	G8	201	CYC	C4B-C3B-CAB-CBB
12	H8	201	CYC	NA-C4A-CHB-C1B
12	H8	201	CYC	C3A-C4A-CHB-C1B
12	H8	202	CYC	NA-C4A-CHB-C1B
12	H8	202	CYC	C4C-C3C-CAC-CBC
12	I8	201	CYC	NA-C4A-CHB-C1B
12	I8	201	CYC	C3A-C4A-CHB-C1B
12	I8	201	CYC	C2B-C3B-CAB-CBB
12	I8	201	CYC	C4B-C3B-CAB-CBB
12	J8	201	CYC	NA-C4A-CHB-C1B
12	J8	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	J8	202	CYC	NA-C4A-CHB-C1B
12	J8	202	CYC	C4C-C3C-CAC-CBC
12	K8	201	CYC	NA-C4A-CHB-C1B
12	K8	201	CYC	C3A-C4A-CHB-C1B
12	K8	201	CYC	C2B-C3B-CAB-CBB
12	K8	201	CYC	C4B-C3B-CAB-CBB
12	L8	201	CYC	NA-C4A-CHB-C1B
12	L8	201	CYC	C4C-C3C-CAC-CBC
12	M8	301	CYC	NA-C4A-CHB-C1B
12	M8	301	CYC	C3A-C4A-CHB-C1B
12	M8	302	CYC	NA-C4A-CHB-C1B
12	M8	302	CYC	C3A-C4A-CHB-C1B
12	N8	201	CYC	NA-C4A-CHB-C1B
12	N8	201	CYC	C3A-C4A-CHB-C1B
12	N8	201	CYC	C2B-C3B-CAB-CBB
12	N8	201	CYC	C4B-C3B-CAB-CBB
12	O8	201	CYC	NA-C4A-CHB-C1B
12	O8	201	CYC	C3A-C4A-CHB-C1B
12	O8	202	CYC	NA-C4A-CHB-C1B
12	O8	202	CYC	C4C-C3C-CAC-CBC
12	P8	201	CYC	NA-C4A-CHB-C1B
12	P8	201	CYC	C3A-C4A-CHB-C1B
12	P8	201	CYC	C2B-C3B-CAB-CBB
12	P8	201	CYC	C4B-C3B-CAB-CBB
12	Q8	201	CYC	NA-C4A-CHB-C1B
12	Q8	201	CYC	C4C-C3C-CAC-CBC
12	R8	201	CYC	NA-C4A-CHB-C1B
12	R8	201	CYC	C3A-C4A-CHB-C1B
12	R8	201	CYC	C2B-C3B-CAB-CBB
12	R8	201	CYC	C4B-C3B-CAB-CBB
12	S8	201	CYC	NA-C4A-CHB-C1B
12	S8	201	CYC	C4C-C3C-CAC-CBC
12	F1	201	CYC	NA-C4A-CHB-C1B
12	F1	201	CYC	C3A-C4A-CHB-C1B
12	F1	202	CYC	NA-C4A-CHB-C1B
12	F1	202	CYC	C4C-C3C-CAC-CBC
12	L9	201	CYC	NA-C4A-CHB-C1B
12	L9	201	CYC	C4C-C3C-CAC-CBC
12	L9	202	CYC	NA-C4A-CHB-C1B
12	L9	202	CYC	C3A-C4A-CHB-C1B
12	O9	201	CYC	NA-C4A-CHB-C1B
12	O9	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	O9	201	CYC	C2B-C3B-CAB-CBB
12	O9	201	CYC	C4B-C3B-CAB-CBB
12	P9	201	CYC	NA-C4A-CHB-C1B
12	P9	201	CYC	C3A-C4A-CHB-C1B
12	P9	202	CYC	NA-C4A-CHB-C1B
12	P9	202	CYC	C4C-C3C-CAC-CBC
12	Q9	201	CYC	NA-C4A-CHB-C1B
12	Q9	201	CYC	C3A-C4A-CHB-C1B
12	Q9	201	CYC	C2B-C3B-CAB-CBB
12	Q9	201	CYC	C4B-C3B-CAB-CBB
12	Y8	201	CYC	NA-C4A-CHB-C1B
12	Y8	201	CYC	C4C-C3C-CAC-CBC
12	Z8	301	CYC	NA-C4A-CHB-C1B
12	Z8	301	CYC	C3A-C4A-CHB-C1B
12	A9	201	CYC	NA-C4A-CHB-C1B
12	A9	201	CYC	C3A-C4A-CHB-C1B
12	A9	201	CYC	C2B-C3B-CAB-CBB
12	A9	201	CYC	C4B-C3B-CAB-CBB
12	B9	201	CYC	NA-C4A-CHB-C1B
12	B9	201	CYC	C3A-C4A-CHB-C1B
12	B9	202	CYC	NA-C4A-CHB-C1B
12	B9	202	CYC	C4C-C3C-CAC-CBC
12	C9	201	CYC	NA-C4A-CHB-C1B
12	C9	201	CYC	C3A-C4A-CHB-C1B
12	C9	201	CYC	C2B-C3B-CAB-CBB
12	C9	201	CYC	C4B-C3B-CAB-CBB
12	D9	201	CYC	NA-C4A-CHB-C1B
12	D9	201	CYC	C3A-C4A-CHB-C1B
12	D9	202	CYC	NA-C4A-CHB-C1B
12	D9	202	CYC	C4C-C3C-CAC-CBC
12	E9	201	CYC	NA-C4A-CHB-C1B
12	E9	201	CYC	C3A-C4A-CHB-C1B
12	E9	201	CYC	C2B-C3B-CAB-CBB
12	E9	201	CYC	C4B-C3B-CAB-CBB
12	F9	301	CYC	NA-C4A-CHB-C1B
12	F9	301	CYC	C3A-C4A-CHB-C1B
12	F9	302	CYC	NA-C4A-CHB-C1B
12	F9	302	CYC	C4C-C3C-CAC-CBC
12	F9	303	CYC	NA-C4A-CHB-C1B
12	F9	303	CYC	C4C-C3C-CAC-CBC
12	G9	201	CYC	NA-C4A-CHB-C1B
12	G9	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	G9	201	CYC	C2B-C3B-CAB-CBB
12	G9	201	CYC	C4B-C3B-CAB-CBB
12	H9	201	CYC	NA-C4A-CHB-C1B
12	H9	201	CYC	C4C-C3C-CAC-CBC
12	H9	202	CYC	NA-C4A-CHB-C1B
12	H9	202	CYC	C3A-C4A-CHB-C1B
12	I9	201	CYC	NA-C4A-CHB-C1B
12	I9	201	CYC	C3A-C4A-CHB-C1B
12	I9	201	CYC	C2B-C3B-CAB-CBB
12	I9	201	CYC	C4B-C3B-CAB-CBB
12	J9	201	CYC	NA-C4A-CHB-C1B
12	J9	201	CYC	C4C-C3C-CAC-CBC
12	J9	202	CYC	NA-C4A-CHB-C1B
12	J9	202	CYC	C3A-C4A-CHB-C1B
12	K9	201	CYC	NA-C4A-CHB-C1B
12	K9	201	CYC	C3A-C4A-CHB-C1B
12	K9	201	CYC	C2B-C3B-CAB-CBB
12	K9	201	CYC	C4B-C3B-CAB-CBB
12	R9	201	CYC	NA-C4A-CHB-C1B
12	R9	201	CYC	C3A-C4A-CHB-C1B
12	R9	202	CYC	NA-C4A-CHB-C1B
12	R9	202	CYC	C4C-C3C-CAC-CBC
12	S9	201	CYC	NA-C4A-CHB-C1B
12	S9	201	CYC	C3A-C4A-CHB-C1B
12	S9	201	CYC	C2B-C3B-CAB-CBB
12	S9	201	CYC	C4B-C3B-CAB-CBB
12	T9	301	CYC	NA-C4A-CHB-C1B
12	T9	301	CYC	C3A-C4A-CHB-C1B
12	T9	302	CYC	NA-C4A-CHB-C1B
12	T9	302	CYC	C4C-C3C-CAC-CBC
12	U9	201	CYC	NA-C4A-CHB-C1B
12	U9	201	CYC	C3A-C4A-CHB-C1B
12	U9	201	CYC	C2B-C3B-CAB-CBB
12	U9	201	CYC	C4B-C3B-CAB-CBB
12	V9	201	CYC	NA-C4A-CHB-C1B
12	V9	201	CYC	C3A-C4A-CHB-C1B
12	V9	202	CYC	NA-C4A-CHB-C1B
12	V9	202	CYC	C4C-C3C-CAC-CBC
12	W9	201	CYC	NA-C4A-CHB-C1B
12	W9	201	CYC	C3A-C4A-CHB-C1B
12	W9	201	CYC	C2B-C3B-CAB-CBB
12	W9	201	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
12	X9	201	CYC	NA-C4A-CHB-C1B
12	X9	201	CYC	C3A-C4A-CHB-C1B
12	X9	202	CYC	NA-C4A-CHB-C1B
12	X9	202	CYC	C4C-C3C-CAC-CBC
12	Y9	201	CYC	NA-C4A-CHB-C1B
12	Y9	201	CYC	C3A-C4A-CHB-C1B
12	Y9	201	CYC	C2B-C3B-CAB-CBB
12	Y9	201	CYC	C4B-C3B-CAB-CBB
12	Z9	201	CYC	NA-C4A-CHB-C1B
12	Z9	201	CYC	C4C-C3C-CAC-CBC
12	Z9	202	CYC	NA-C4A-CHB-C1B
12	Z9	202	CYC	C3A-C4A-CHB-C1B
12	G1	201	CYC	NA-C4A-CHB-C1B
12	G1	201	CYC	C3A-C4A-CHB-C1B
12	G1	201	CYC	C2B-C3B-CAB-CBB
12	G1	201	CYC	C4B-C3B-CAB-CBB
12	a9	901	CYC	NA-C4A-CHB-C1B
12	a9	901	CYC	C3A-C4A-CHB-C1B
12	aA	901	CYC	NA-C4A-CHB-C1B
12	aA	901	CYC	C3A-C4A-CHB-C1B
12	aA	902	CYC	NA-C4A-CHB-C1B
12	aA	902	CYC	C3A-C4A-CHB-C1B
12	H1	201	CYC	NA-C4A-CHB-C1B
12	H1	201	CYC	C3A-C4A-CHB-C1B
12	H1	202	CYC	NA-C4A-CHB-C1B
12	H1	202	CYC	C4C-C3C-CAC-CBC
12	I1	201	CYC	NA-C4A-CHB-C1B
12	I1	201	CYC	C3A-C4A-CHB-C1B
12	I1	201	CYC	C2B-C3B-CAB-CBB
12	I1	201	CYC	C4B-C3B-CAB-CBB
12	J1	201	CYC	NA-C4A-CHB-C1B
12	J1	201	CYC	C4C-C3C-CAC-CBC
12	K1	201	CYC	NA-C4A-CHB-C1B
12	K1	201	CYC	C3A-C4A-CHB-C1B
12	K1	201	CYC	C2B-C3B-CAB-CBB
12	K1	201	CYC	C4B-C3B-CAB-CBB
12	L1	201	CYC	NA-C4A-CHB-C1B
12	L1	201	CYC	C4C-C3C-CAC-CBC
12	T1	301	CYC	NA-C4A-CHB-C1B
12	T1	301	CYC	C3A-C4A-CHB-C1B
12	T1	302	CYC	NA-C4A-CHB-C1B
12	T1	302	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
12	U1	201	CYC	NA-C4A-CHB-C1B
12	U1	201	CYC	C3A-C4A-CHB-C1B
12	U1	201	CYC	C2B-C3B-CAB-CBB
12	U1	201	CYC	C4B-C3B-CAB-CBB
12	V1	201	CYC	NA-C4A-CHB-C1B
12	V1	201	CYC	C3A-C4A-CHB-C1B
12	V1	202	CYC	NA-C4A-CHB-C1B
12	V1	202	CYC	C4C-C3C-CAC-CBC
12	W1	201	CYC	NA-C4A-CHB-C1B
12	W1	201	CYC	C3A-C4A-CHB-C1B
12	W1	201	CYC	C2B-C3B-CAB-CBB
12	W1	201	CYC	C4B-C3B-CAB-CBB
12	X1	201	CYC	NA-C4A-CHB-C1B
12	X1	201	CYC	C3A-C4A-CHB-C1B
12	X1	202	CYC	NA-C4A-CHB-C1B
12	X1	202	CYC	C4C-C3C-CAC-CBC
12	Y1	201	CYC	NA-C4A-CHB-C1B
12	Y1	201	CYC	C3A-C4A-CHB-C1B
12	Y1	201	CYC	C2B-C3B-CAB-CBB
12	Y1	201	CYC	C4B-C3B-CAB-CBB
12	Z1	201	CYC	NA-C4A-CHB-C1B
12	Z1	201	CYC	C4C-C3C-CAC-CBC
12	Z1	202	CYC	NA-C4A-CHB-C1B
12	Z1	202	CYC	C3A-C4A-CHB-C1B
12	A2	201	CYC	NA-C4A-CHB-C1B
12	A2	201	CYC	C3A-C4A-CHB-C1B
12	A2	201	CYC	C2B-C3B-CAB-CBB
12	A2	201	CYC	C4B-C3B-CAB-CBB
12	B2	201	CYC	NA-C4A-CHB-C1B
12	B2	201	CYC	C4C-C3C-CAC-CBC
12	C2	201	CYC	NA-C4A-CHB-C1B
12	C2	201	CYC	C3A-C4A-CHB-C1B
12	C2	201	CYC	C2B-C3B-CAB-CBB
12	C2	201	CYC	C4B-C3B-CAB-CBB
12	D2	201	CYC	NA-C4A-CHB-C1B
12	D2	201	CYC	C3A-C4A-CHB-C1B
12	D2	202	CYC	NA-C4A-CHB-C1B
12	D2	202	CYC	C4C-C3C-CAC-CBC
12	E2	201	CYC	NA-C4A-CHB-C1B
12	E2	201	CYC	C3A-C4A-CHB-C1B
12	E2	201	CYC	C2B-C3B-CAB-CBB
12	E2	201	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
12	F2	201	CYC	NA-C4A-CHB-C1B
12	F2	201	CYC	C3A-C4A-CHB-C1B
12	F2	202	CYC	NA-C4A-CHB-C1B
12	F2	202	CYC	C4C-C3C-CAC-CBC
12	A	201	CYC	C2B-C3B-CAB-CBB
12	Z	201	CYC	C2B-C3B-CAB-CBB
12	L5	201	CYC	C2B-C3B-CAB-CBB
12	N5	201	CYC	C2B-C3B-CAB-CBB
12	B5	201	CYC	C2B-C3B-CAB-CBB
12	D5	201	CYC	C2B-C3B-CAB-CBB
12	F5	201	CYC	C2B-C3B-CAB-CBB
12	H5	201	CYC	C2B-C3B-CAB-CBB
12	J5	201	CYC	C2B-C3B-CAB-CBB
12	d5	201	CYC	C2B-C3B-CAB-CBB
12	f5	201	CYC	C2B-C3B-CAB-CBB
12	P5	201	CYC	C2B-C3B-CAB-CBB
12	R5	201	CYC	C2B-C3B-CAB-CBB
12	T5	201	CYC	C2B-C3B-CAB-CBB
12	V5	201	CYC	C2B-C3B-CAB-CBB
12	X5	201	CYC	C2B-C3B-CAB-CBB
12	Z5	201	CYC	C2B-C3B-CAB-CBB
12	b5	201	CYC	C2B-C3B-CAB-CBB
12	j5	1202	CYC	C2B-C3B-CAB-CBB
12	k5	1202	CYC	C2B-C3B-CAB-CBB
12	k5	1203	CYC	C2B-C3B-CAB-CBB
12	k5	1204	CYC	C2B-C3B-CAB-CBB
12	P7	201	CYC	C2B-C3B-CAB-CBB
12	R7	201	CYC	C2B-C3B-CAB-CBB
12	B7	201	CYC	C2B-C3B-CAB-CBB
12	D7	201	CYC	C2B-C3B-CAB-CBB
12	F7	201	CYC	C2B-C3B-CAB-CBB
12	H7	201	CYC	C2B-C3B-CAB-CBB
12	J7	201	CYC	C2B-C3B-CAB-CBB
12	L7	201	CYC	C2B-C3B-CAB-CBB
12	N7	201	CYC	C2B-C3B-CAB-CBB
12	h7	201	CYC	C2B-C3B-CAB-CBB
12	j7	201	CYC	C2B-C3B-CAB-CBB
12	T7	201	CYC	C2B-C3B-CAB-CBB
12	V7	201	CYC	C2B-C3B-CAB-CBB
12	X7	201	CYC	C2B-C3B-CAB-CBB
12	b7	201	CYC	C2B-C3B-CAB-CBB
12	d7	201	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
12	f7	201	CYC	C2B-C3B-CAB-CBB
12	p7	201	CYC	C2B-C3B-CAB-CBB
12	r7	201	CYC	C2B-C3B-CAB-CBB
12	v7	201	CYC	C2B-C3B-CAB-CBB
12	AA	201	CYC	ND-C1D-CHD-C4C
12	BA	202	CYC	ND-C1D-CHD-C4C
12	CA	201	CYC	ND-C1D-CHD-C4C
12	DA	202	CYC	ND-C1D-CHD-C4C
12	EA	201	CYC	ND-C1D-CHD-C4C
12	GA	201	CYC	ND-C1D-CHD-C4C
12	HA	201	CYC	ND-C1D-CHD-C4C
12	IA	201	CYC	ND-C1D-CHD-C4C
12	JA	201	CYC	ND-C1D-CHD-C4C
12	KA	201	CYC	ND-C1D-CHD-C4C
12	LA	201	CYC	ND-C1D-CHD-C4C
12	OA	201	CYC	ND-C1D-CHD-C4C
12	PA	202	CYC	ND-C1D-CHD-C4C
12	QA	201	CYC	ND-C1D-CHD-C4C
12	RA	202	CYC	ND-C1D-CHD-C4C
12	SA	201	CYC	ND-C1D-CHD-C4C
12	TA	302	CYC	ND-C1D-CHD-C4C
12	UA	201	CYC	ND-C1D-CHD-C4C
12	VA	202	CYC	ND-C1D-CHD-C4C
12	WA	201	CYC	ND-C1D-CHD-C4C
12	XA	202	CYC	ND-C1D-CHD-C4C
12	YA	201	CYC	ND-C1D-CHD-C4C
12	ZA	201	CYC	ND-C1D-CHD-C4C
12	O1	201	CYC	ND-C1D-CHD-C4C
12	P1	202	CYC	ND-C1D-CHD-C4C
12	Q1	201	CYC	ND-C1D-CHD-C4C
12	R1	202	CYC	ND-C1D-CHD-C4C
12	S1	201	CYC	ND-C1D-CHD-C4C
12	A1	201	CYC	ND-C1D-CHD-C4C
12	G3	201	CYC	ND-C1D-CHD-C4C
12	H3	201	CYC	ND-C1D-CHD-C4C
12	I3	201	CYC	ND-C1D-CHD-C4C
12	J3	201	CYC	ND-C1D-CHD-C4C
12	K3	201	CYC	ND-C1D-CHD-C4C
12	G2	201	CYC	ND-C1D-CHD-C4C
12	H2	202	CYC	ND-C1D-CHD-C4C
12	I2	201	CYC	ND-C1D-CHD-C4C
12	J2	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	K2	201	CYC	ND-C1D-CHD-C4C
12	L2	202	CYC	ND-C1D-CHD-C4C
12	A3	201	CYC	ND-C1D-CHD-C4C
12	B3	201	CYC	ND-C1D-CHD-C4C
12	C3	201	CYC	ND-C1D-CHD-C4C
12	D3	201	CYC	ND-C1D-CHD-C4C
12	E3	201	CYC	ND-C1D-CHD-C4C
12	F3	202	CYC	ND-C1D-CHD-C4C
12	Z3	202	CYC	ND-C1D-CHD-C4C
12	A4	201	CYC	ND-C1D-CHD-C4C
12	B4	201	CYC	ND-C1D-CHD-C4C
12	C4	201	CYC	ND-C1D-CHD-C4C
12	D4	201	CYC	ND-C1D-CHD-C4C
12	L3	201	CYC	ND-C1D-CHD-C4C
12	O3	201	CYC	ND-C1D-CHD-C4C
12	P3	202	CYC	ND-C1D-CHD-C4C
12	Q3	201	CYC	ND-C1D-CHD-C4C
12	R3	202	CYC	ND-C1D-CHD-C4C
12	S3	201	CYC	ND-C1D-CHD-C4C
12	T3	302	CYC	ND-C1D-CHD-C4C
12	U3	201	CYC	ND-C1D-CHD-C4C
12	V3	202	CYC	ND-C1D-CHD-C4C
12	W3	201	CYC	ND-C1D-CHD-C4C
12	X3	202	CYC	ND-C1D-CHD-C4C
12	Y3	201	CYC	ND-C1D-CHD-C4C
12	B1	201	CYC	ND-C1D-CHD-C4C
12	S4	201	CYC	ND-C1D-CHD-C4C
12	T4	201	CYC	ND-C1D-CHD-C4C
12	U4	202	CYC	ND-C1D-CHD-C4C
12	V4	201	CYC	ND-C1D-CHD-C4C
12	W4	202	CYC	ND-C1D-CHD-C4C
12	E4	201	CYC	ND-C1D-CHD-C4C
12	F4	201	CYC	ND-C1D-CHD-C4C
12	G4	201	CYC	ND-C1D-CHD-C4C
12	H4	202	CYC	ND-C1D-CHD-C4C
12	I4	201	CYC	ND-C1D-CHD-C4C
12	J4	202	CYC	ND-C1D-CHD-C4C
12	K4	201	CYC	ND-C1D-CHD-C4C
12	L4	201	CYC	ND-C1D-CHD-C4C
12	N4	201	CYC	ND-C1D-CHD-C4C
12	O4	202	CYC	ND-C1D-CHD-C4C
12	P4	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	Q4	201	CYC	ND-C1D-CHD-C4C
12	R4	201	CYC	ND-C1D-CHD-C4C
12	X4	201	CYC	ND-C1D-CHD-C4C
12	Y4	201	CYC	ND-C1D-CHD-C4C
12	C1	201	CYC	ND-C1D-CHD-C4C
12	J6	201	CYC	ND-C1D-CHD-C4C
12	K6	201	CYC	ND-C1D-CHD-C4C
12	L6	202	CYC	ND-C1D-CHD-C4C
12	A6	201	CYC	ND-C1D-CHD-C4C
12	B6	201	CYC	ND-C1D-CHD-C4C
12	C6	201	CYC	ND-C1D-CHD-C4C
12	D6	202	CYC	ND-C1D-CHD-C4C
12	E6	201	CYC	ND-C1D-CHD-C4C
12	F6	202	CYC	ND-C1D-CHD-C4C
12	G6	201	CYC	ND-C1D-CHD-C4C
12	H6	202	CYC	ND-C1D-CHD-C4C
12	I6	201	CYC	ND-C1D-CHD-C4C
12	D1	201	CYC	ND-C1D-CHD-C4C
12	E1	201	CYC	ND-C1D-CHD-C4C
12	A8	201	CYC	ND-C1D-CHD-C4C
12	B8	201	CYC	ND-C1D-CHD-C4C
12	C8	201	CYC	ND-C1D-CHD-C4C
12	D8	201	CYC	ND-C1D-CHD-C4C
12	E8	201	CYC	ND-C1D-CHD-C4C
12	T8	201	CYC	ND-C1D-CHD-C4C
12	U8	202	CYC	ND-C1D-CHD-C4C
12	V8	201	CYC	ND-C1D-CHD-C4C
12	W8	202	CYC	ND-C1D-CHD-C4C
12	X8	201	CYC	ND-C1D-CHD-C4C
12	F8	201	CYC	ND-C1D-CHD-C4C
12	G8	201	CYC	ND-C1D-CHD-C4C
12	H8	202	CYC	ND-C1D-CHD-C4C
12	I8	201	CYC	ND-C1D-CHD-C4C
12	J8	202	CYC	ND-C1D-CHD-C4C
12	K8	201	CYC	ND-C1D-CHD-C4C
12	L8	201	CYC	ND-C1D-CHD-C4C
12	N8	201	CYC	ND-C1D-CHD-C4C
12	O8	202	CYC	ND-C1D-CHD-C4C
12	P8	201	CYC	ND-C1D-CHD-C4C
12	Q8	201	CYC	ND-C1D-CHD-C4C
12	R8	201	CYC	ND-C1D-CHD-C4C
12	S8	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	F1	202	CYC	ND-C1D-CHD-C4C
12	L9	201	CYC	ND-C1D-CHD-C4C
12	O9	201	CYC	ND-C1D-CHD-C4C
12	P9	202	CYC	ND-C1D-CHD-C4C
12	Q9	201	CYC	ND-C1D-CHD-C4C
12	Y8	201	CYC	ND-C1D-CHD-C4C
12	A9	201	CYC	ND-C1D-CHD-C4C
12	B9	202	CYC	ND-C1D-CHD-C4C
12	C9	201	CYC	ND-C1D-CHD-C4C
12	D9	202	CYC	ND-C1D-CHD-C4C
12	E9	201	CYC	ND-C1D-CHD-C4C
12	F9	302	CYC	ND-C1D-CHD-C4C
12	F9	303	CYC	ND-C1D-CHD-C4C
12	G9	201	CYC	ND-C1D-CHD-C4C
12	H9	201	CYC	ND-C1D-CHD-C4C
12	I9	201	CYC	ND-C1D-CHD-C4C
12	J9	201	CYC	ND-C1D-CHD-C4C
12	K9	201	CYC	ND-C1D-CHD-C4C
12	R9	202	CYC	ND-C1D-CHD-C4C
12	S9	201	CYC	ND-C1D-CHD-C4C
12	T9	302	CYC	ND-C1D-CHD-C4C
12	U9	201	CYC	ND-C1D-CHD-C4C
12	V9	202	CYC	ND-C1D-CHD-C4C
12	W9	201	CYC	ND-C1D-CHD-C4C
12	X9	202	CYC	ND-C1D-CHD-C4C
12	Y9	201	CYC	ND-C1D-CHD-C4C
12	Z9	201	CYC	ND-C1D-CHD-C4C
12	G1	201	CYC	ND-C1D-CHD-C4C
12	H1	202	CYC	ND-C1D-CHD-C4C
12	I1	201	CYC	ND-C1D-CHD-C4C
12	J1	201	CYC	ND-C1D-CHD-C4C
12	K1	201	CYC	ND-C1D-CHD-C4C
12	L1	201	CYC	ND-C1D-CHD-C4C
12	T1	302	CYC	ND-C1D-CHD-C4C
12	U1	201	CYC	ND-C1D-CHD-C4C
12	V1	202	CYC	ND-C1D-CHD-C4C
12	W1	201	CYC	ND-C1D-CHD-C4C
12	X1	202	CYC	ND-C1D-CHD-C4C
12	Y1	201	CYC	ND-C1D-CHD-C4C
12	Z1	201	CYC	ND-C1D-CHD-C4C
12	A2	201	CYC	ND-C1D-CHD-C4C
12	B2	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	C2	201	CYC	ND-C1D-CHD-C4C
12	D2	202	CYC	ND-C1D-CHD-C4C
12	E2	201	CYC	ND-C1D-CHD-C4C
12	F2	202	CYC	ND-C1D-CHD-C4C
12	A	201	CYC	ND-C1D-CHD-C4C
12	Z	201	CYC	ND-C1D-CHD-C4C
12	BA	201	CYC	ND-C1D-CHD-C4C
12	DA	201	CYC	ND-C1D-CHD-C4C
12	FA	301	CYC	ND-C1D-CHD-C4C
12	HA	202	CYC	ND-C1D-CHD-C4C
12	JA	202	CYC	ND-C1D-CHD-C4C
12	LA	202	CYC	ND-C1D-CHD-C4C
12	PA	201	CYC	ND-C1D-CHD-C4C
12	RA	201	CYC	ND-C1D-CHD-C4C
12	TA	301	CYC	ND-C1D-CHD-C4C
12	VA	201	CYC	ND-C1D-CHD-C4C
12	XA	201	CYC	ND-C1D-CHD-C4C
12	ZA	202	CYC	ND-C1D-CHD-C4C
12	P1	201	CYC	ND-C1D-CHD-C4C
12	R1	201	CYC	ND-C1D-CHD-C4C
12	H3	202	CYC	ND-C1D-CHD-C4C
12	J3	202	CYC	ND-C1D-CHD-C4C
12	H2	201	CYC	ND-C1D-CHD-C4C
12	J2	202	CYC	ND-C1D-CHD-C4C
12	L2	201	CYC	ND-C1D-CHD-C4C
12	N2	101	CYC	ND-C1D-CHD-C4C
12	B3	202	CYC	ND-C1D-CHD-C4C
12	D3	202	CYC	ND-C1D-CHD-C4C
12	F3	201	CYC	ND-C1D-CHD-C4C
12	Z3	201	CYC	ND-C1D-CHD-C4C
12	B4	202	CYC	ND-C1D-CHD-C4C
12	D4	202	CYC	ND-C1D-CHD-C4C
12	L3	202	CYC	ND-C1D-CHD-C4C
12	P3	201	CYC	ND-C1D-CHD-C4C
12	R3	201	CYC	ND-C1D-CHD-C4C
12	T3	301	CYC	ND-C1D-CHD-C4C
12	V3	201	CYC	ND-C1D-CHD-C4C
12	X3	201	CYC	ND-C1D-CHD-C4C
12	B1	202	CYC	ND-C1D-CHD-C4C
12	S4	202	CYC	ND-C1D-CHD-C4C
12	U4	201	CYC	ND-C1D-CHD-C4C
12	W4	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	F4	202	CYC	ND-C1D-CHD-C4C
12	H4	201	CYC	ND-C1D-CHD-C4C
12	J4	201	CYC	ND-C1D-CHD-C4C
12	L4	202	CYC	ND-C1D-CHD-C4C
12	M4	301	CYC	ND-C1D-CHD-C4C
12	O4	201	CYC	ND-C1D-CHD-C4C
12	L5	201	CYC	ND-C1D-CHD-C4C
12	N5	201	CYC	ND-C1D-CHD-C4C
12	Z4	301	CYC	ND-C1D-CHD-C4C
12	B5	201	CYC	ND-C1D-CHD-C4C
12	D5	201	CYC	ND-C1D-CHD-C4C
12	F5	201	CYC	ND-C1D-CHD-C4C
12	H5	201	CYC	ND-C1D-CHD-C4C
12	J5	201	CYC	ND-C1D-CHD-C4C
12	d5	201	CYC	ND-C1D-CHD-C4C
12	f5	201	CYC	ND-C1D-CHD-C4C
12	P5	201	CYC	ND-C1D-CHD-C4C
12	R5	201	CYC	ND-C1D-CHD-C4C
12	T5	201	CYC	ND-C1D-CHD-C4C
12	V5	201	CYC	ND-C1D-CHD-C4C
12	X5	201	CYC	ND-C1D-CHD-C4C
12	Z5	201	CYC	ND-C1D-CHD-C4C
12	b5	201	CYC	ND-C1D-CHD-C4C
12	J6	202	CYC	ND-C1D-CHD-C4C
12	L6	201	CYC	ND-C1D-CHD-C4C
12	N6	101	CYC	ND-C1D-CHD-C4C
12	j5	1202	CYC	ND-C1D-CHD-C4C
12	k5	1202	CYC	ND-C1D-CHD-C4C
12	k5	1203	CYC	ND-C1D-CHD-C4C
12	k5	1204	CYC	ND-C1D-CHD-C4C
12	D6	201	CYC	ND-C1D-CHD-C4C
12	F6	201	CYC	ND-C1D-CHD-C4C
12	H6	201	CYC	ND-C1D-CHD-C4C
12	D1	202	CYC	ND-C1D-CHD-C4C
12	P7	201	CYC	ND-C1D-CHD-C4C
12	R7	201	CYC	ND-C1D-CHD-C4C
12	B7	201	CYC	ND-C1D-CHD-C4C
12	D7	201	CYC	ND-C1D-CHD-C4C
12	F7	201	CYC	ND-C1D-CHD-C4C
12	H7	201	CYC	ND-C1D-CHD-C4C
12	J7	201	CYC	ND-C1D-CHD-C4C
12	L7	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	N7	201	CYC	ND-C1D-CHD-C4C
12	h7	201	CYC	ND-C1D-CHD-C4C
12	j7	201	CYC	ND-C1D-CHD-C4C
12	T7	201	CYC	ND-C1D-CHD-C4C
12	V7	201	CYC	ND-C1D-CHD-C4C
12	X7	201	CYC	ND-C1D-CHD-C4C
12	b7	201	CYC	ND-C1D-CHD-C4C
12	d7	201	CYC	ND-C1D-CHD-C4C
12	f7	201	CYC	ND-C1D-CHD-C4C
12	B8	202	CYC	ND-C1D-CHD-C4C
12	D8	202	CYC	ND-C1D-CHD-C4C
12	p7	201	CYC	ND-C1D-CHD-C4C
12	r7	201	CYC	ND-C1D-CHD-C4C
12	v7	201	CYC	ND-C1D-CHD-C4C
12	U8	201	CYC	ND-C1D-CHD-C4C
12	W8	201	CYC	ND-C1D-CHD-C4C
12	F8	202	CYC	ND-C1D-CHD-C4C
12	H8	201	CYC	ND-C1D-CHD-C4C
12	J8	201	CYC	ND-C1D-CHD-C4C
12	M8	301	CYC	ND-C1D-CHD-C4C
12	M8	302	CYC	ND-C1D-CHD-C4C
12	O8	201	CYC	ND-C1D-CHD-C4C
12	F1	201	CYC	ND-C1D-CHD-C4C
12	L9	202	CYC	ND-C1D-CHD-C4C
12	P9	201	CYC	ND-C1D-CHD-C4C
12	Z8	301	CYC	ND-C1D-CHD-C4C
12	B9	201	CYC	ND-C1D-CHD-C4C
12	D9	201	CYC	ND-C1D-CHD-C4C
12	F9	301	CYC	ND-C1D-CHD-C4C
12	H9	202	CYC	ND-C1D-CHD-C4C
12	J9	202	CYC	ND-C1D-CHD-C4C
12	R9	201	CYC	ND-C1D-CHD-C4C
12	T9	301	CYC	ND-C1D-CHD-C4C
12	V9	201	CYC	ND-C1D-CHD-C4C
12	X9	201	CYC	ND-C1D-CHD-C4C
12	Z9	202	CYC	ND-C1D-CHD-C4C
12	a9	901	CYC	ND-C1D-CHD-C4C
12	aA	901	CYC	ND-C1D-CHD-C4C
12	aA	902	CYC	ND-C1D-CHD-C4C
12	H1	201	CYC	ND-C1D-CHD-C4C
12	T1	301	CYC	ND-C1D-CHD-C4C
12	V1	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	X1	201	CYC	ND-C1D-CHD-C4C
12	Z1	202	CYC	ND-C1D-CHD-C4C
12	D2	201	CYC	ND-C1D-CHD-C4C
12	F2	201	CYC	ND-C1D-CHD-C4C
12	A	201	CYC	C2D-C1D-CHD-C4C
12	Z	201	CYC	C2D-C1D-CHD-C4C
12	AA	201	CYC	C2D-C1D-CHD-C4C
12	BA	201	CYC	C2D-C1D-CHD-C4C
12	BA	202	CYC	C2D-C1D-CHD-C4C
12	CA	201	CYC	C2D-C1D-CHD-C4C
12	DA	201	CYC	C2D-C1D-CHD-C4C
12	DA	202	CYC	C2D-C1D-CHD-C4C
12	EA	201	CYC	C2D-C1D-CHD-C4C
12	FA	301	CYC	C2D-C1D-CHD-C4C
12	GA	201	CYC	C2D-C1D-CHD-C4C
12	HA	201	CYC	C2D-C1D-CHD-C4C
12	HA	202	CYC	C2D-C1D-CHD-C4C
12	IA	201	CYC	C2D-C1D-CHD-C4C
12	JA	201	CYC	C2D-C1D-CHD-C4C
12	JA	202	CYC	C2D-C1D-CHD-C4C
12	KA	201	CYC	C2D-C1D-CHD-C4C
12	LA	201	CYC	C2D-C1D-CHD-C4C
12	LA	202	CYC	C2D-C1D-CHD-C4C
12	OA	201	CYC	C2D-C1D-CHD-C4C
12	PA	201	CYC	C2D-C1D-CHD-C4C
12	PA	202	CYC	C2D-C1D-CHD-C4C
12	QA	201	CYC	C2D-C1D-CHD-C4C
12	RA	201	CYC	C2D-C1D-CHD-C4C
12	RA	202	CYC	C2D-C1D-CHD-C4C
12	SA	201	CYC	C2D-C1D-CHD-C4C
12	TA	301	CYC	C2D-C1D-CHD-C4C
12	TA	302	CYC	C2D-C1D-CHD-C4C
12	UA	201	CYC	C2D-C1D-CHD-C4C
12	VA	201	CYC	C2D-C1D-CHD-C4C
12	VA	202	CYC	C2D-C1D-CHD-C4C
12	WA	201	CYC	C2D-C1D-CHD-C4C
12	XA	201	CYC	C2D-C1D-CHD-C4C
12	XA	202	CYC	C2D-C1D-CHD-C4C
12	YA	201	CYC	C2D-C1D-CHD-C4C
12	ZA	201	CYC	C2D-C1D-CHD-C4C
12	ZA	202	CYC	C2D-C1D-CHD-C4C
12	O1	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	P1	201	CYC	C2D-C1D-CHD-C4C
12	P1	202	CYC	C2D-C1D-CHD-C4C
12	Q1	201	CYC	C2D-C1D-CHD-C4C
12	R1	201	CYC	C2D-C1D-CHD-C4C
12	R1	202	CYC	C2D-C1D-CHD-C4C
12	S1	201	CYC	C2D-C1D-CHD-C4C
12	A1	201	CYC	C2D-C1D-CHD-C4C
12	G3	201	CYC	C2D-C1D-CHD-C4C
12	H3	201	CYC	C2D-C1D-CHD-C4C
12	H3	202	CYC	C2D-C1D-CHD-C4C
12	I3	201	CYC	C2D-C1D-CHD-C4C
12	J3	201	CYC	C2D-C1D-CHD-C4C
12	J3	202	CYC	C2D-C1D-CHD-C4C
12	K3	201	CYC	C2D-C1D-CHD-C4C
12	G2	201	CYC	C2D-C1D-CHD-C4C
12	H2	201	CYC	C2D-C1D-CHD-C4C
12	H2	202	CYC	C2D-C1D-CHD-C4C
12	I2	201	CYC	C2D-C1D-CHD-C4C
12	J2	201	CYC	C2D-C1D-CHD-C4C
12	J2	202	CYC	C2D-C1D-CHD-C4C
12	K2	201	CYC	C2D-C1D-CHD-C4C
12	L2	201	CYC	C2D-C1D-CHD-C4C
12	L2	202	CYC	C2D-C1D-CHD-C4C
12	N2	101	CYC	C2D-C1D-CHD-C4C
12	A3	201	CYC	C2D-C1D-CHD-C4C
12	B3	201	CYC	C2D-C1D-CHD-C4C
12	B3	202	CYC	C2D-C1D-CHD-C4C
12	C3	201	CYC	C2D-C1D-CHD-C4C
12	D3	201	CYC	C2D-C1D-CHD-C4C
12	D3	202	CYC	C2D-C1D-CHD-C4C
12	E3	201	CYC	C2D-C1D-CHD-C4C
12	F3	201	CYC	C2D-C1D-CHD-C4C
12	F3	202	CYC	C2D-C1D-CHD-C4C
12	Z3	201	CYC	C2D-C1D-CHD-C4C
12	Z3	202	CYC	C2D-C1D-CHD-C4C
12	A4	201	CYC	C2D-C1D-CHD-C4C
12	B4	201	CYC	C2D-C1D-CHD-C4C
12	B4	202	CYC	C2D-C1D-CHD-C4C
12	C4	201	CYC	C2D-C1D-CHD-C4C
12	D4	201	CYC	C2D-C1D-CHD-C4C
12	D4	202	CYC	C2D-C1D-CHD-C4C
12	L3	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	L3	202	CYC	C2D-C1D-CHD-C4C
12	O3	201	CYC	C2D-C1D-CHD-C4C
12	P3	201	CYC	C2D-C1D-CHD-C4C
12	P3	202	CYC	C2D-C1D-CHD-C4C
12	Q3	201	CYC	C2D-C1D-CHD-C4C
12	R3	201	CYC	C2D-C1D-CHD-C4C
12	R3	202	CYC	C2D-C1D-CHD-C4C
12	S3	201	CYC	C2D-C1D-CHD-C4C
12	T3	301	CYC	C2D-C1D-CHD-C4C
12	T3	302	CYC	C2D-C1D-CHD-C4C
12	U3	201	CYC	C2D-C1D-CHD-C4C
12	V3	201	CYC	C2D-C1D-CHD-C4C
12	V3	202	CYC	C2D-C1D-CHD-C4C
12	W3	201	CYC	C2D-C1D-CHD-C4C
12	X3	201	CYC	C2D-C1D-CHD-C4C
12	X3	202	CYC	C2D-C1D-CHD-C4C
12	Y3	201	CYC	C2D-C1D-CHD-C4C
12	B1	201	CYC	C2D-C1D-CHD-C4C
12	B1	202	CYC	C2D-C1D-CHD-C4C
12	S4	201	CYC	C2D-C1D-CHD-C4C
12	S4	202	CYC	C2D-C1D-CHD-C4C
12	T4	201	CYC	C2D-C1D-CHD-C4C
12	U4	201	CYC	C2D-C1D-CHD-C4C
12	U4	202	CYC	C2D-C1D-CHD-C4C
12	V4	201	CYC	C2D-C1D-CHD-C4C
12	W4	201	CYC	C2D-C1D-CHD-C4C
12	W4	202	CYC	C2D-C1D-CHD-C4C
12	E4	201	CYC	C2D-C1D-CHD-C4C
12	F4	201	CYC	C2D-C1D-CHD-C4C
12	F4	202	CYC	C2D-C1D-CHD-C4C
12	G4	201	CYC	C2D-C1D-CHD-C4C
12	H4	201	CYC	C2D-C1D-CHD-C4C
12	H4	202	CYC	C2D-C1D-CHD-C4C
12	I4	201	CYC	C2D-C1D-CHD-C4C
12	J4	201	CYC	C2D-C1D-CHD-C4C
12	J4	202	CYC	C2D-C1D-CHD-C4C
12	K4	201	CYC	C2D-C1D-CHD-C4C
12	L4	201	CYC	C2D-C1D-CHD-C4C
12	L4	202	CYC	C2D-C1D-CHD-C4C
12	M4	301	CYC	C2D-C1D-CHD-C4C
12	N4	201	CYC	C2D-C1D-CHD-C4C
12	O4	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	O4	202	CYC	C2D-C1D-CHD-C4C
12	P4	201	CYC	C2D-C1D-CHD-C4C
12	Q4	201	CYC	C2D-C1D-CHD-C4C
12	R4	201	CYC	C2D-C1D-CHD-C4C
12	K5	201	CYC	C2D-C1D-CHD-C4C
12	L5	201	CYC	C2D-C1D-CHD-C4C
12	M5	201	CYC	C2D-C1D-CHD-C4C
12	N5	201	CYC	C2D-C1D-CHD-C4C
12	O5	201	CYC	C2D-C1D-CHD-C4C
12	X4	201	CYC	C2D-C1D-CHD-C4C
12	Y4	201	CYC	C2D-C1D-CHD-C4C
12	Z4	301	CYC	C2D-C1D-CHD-C4C
12	A5	201	CYC	C2D-C1D-CHD-C4C
12	B5	201	CYC	C2D-C1D-CHD-C4C
12	C5	201	CYC	C2D-C1D-CHD-C4C
12	D5	201	CYC	C2D-C1D-CHD-C4C
12	E5	201	CYC	C2D-C1D-CHD-C4C
12	F5	201	CYC	C2D-C1D-CHD-C4C
12	G5	201	CYC	C2D-C1D-CHD-C4C
12	H5	201	CYC	C2D-C1D-CHD-C4C
12	I5	201	CYC	C2D-C1D-CHD-C4C
12	J5	201	CYC	C2D-C1D-CHD-C4C
12	C1	201	CYC	C2D-C1D-CHD-C4C
12	c5	201	CYC	C2D-C1D-CHD-C4C
12	d5	201	CYC	C2D-C1D-CHD-C4C
12	e5	201	CYC	C2D-C1D-CHD-C4C
12	f5	201	CYC	C2D-C1D-CHD-C4C
12	P5	201	CYC	C2D-C1D-CHD-C4C
12	Q5	201	CYC	C2D-C1D-CHD-C4C
12	R5	201	CYC	C2D-C1D-CHD-C4C
12	S5	201	CYC	C2D-C1D-CHD-C4C
12	T5	201	CYC	C2D-C1D-CHD-C4C
12	U5	201	CYC	C2D-C1D-CHD-C4C
12	V5	201	CYC	C2D-C1D-CHD-C4C
12	W5	201	CYC	C2D-C1D-CHD-C4C
12	X5	201	CYC	C2D-C1D-CHD-C4C
12	Y5	201	CYC	C2D-C1D-CHD-C4C
12	Z5	201	CYC	C2D-C1D-CHD-C4C
12	a5	201	CYC	C2D-C1D-CHD-C4C
12	b5	201	CYC	C2D-C1D-CHD-C4C
12	J6	201	CYC	C2D-C1D-CHD-C4C
12	J6	202	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	K6	201	CYC	C2D-C1D-CHD-C4C
12	L6	201	CYC	C2D-C1D-CHD-C4C
12	L6	202	CYC	C2D-C1D-CHD-C4C
12	N6	101	CYC	C2D-C1D-CHD-C4C
12	A7	201	CYC	C2D-C1D-CHD-C4C
12	j5	1202	CYC	C2D-C1D-CHD-C4C
12	k5	1202	CYC	C2D-C1D-CHD-C4C
12	k5	1203	CYC	C2D-C1D-CHD-C4C
12	k5	1204	CYC	C2D-C1D-CHD-C4C
12	A6	201	CYC	C2D-C1D-CHD-C4C
12	B6	201	CYC	C2D-C1D-CHD-C4C
12	C6	201	CYC	C2D-C1D-CHD-C4C
12	D6	201	CYC	C2D-C1D-CHD-C4C
12	D6	202	CYC	C2D-C1D-CHD-C4C
12	E6	201	CYC	C2D-C1D-CHD-C4C
12	F6	201	CYC	C2D-C1D-CHD-C4C
12	F6	202	CYC	C2D-C1D-CHD-C4C
12	G6	201	CYC	C2D-C1D-CHD-C4C
12	H6	201	CYC	C2D-C1D-CHD-C4C
12	H6	202	CYC	C2D-C1D-CHD-C4C
12	I6	201	CYC	C2D-C1D-CHD-C4C
12	D1	201	CYC	C2D-C1D-CHD-C4C
12	D1	202	CYC	C2D-C1D-CHD-C4C
12	O7	201	CYC	C2D-C1D-CHD-C4C
12	P7	201	CYC	C2D-C1D-CHD-C4C
12	Q7	201	CYC	C2D-C1D-CHD-C4C
12	R7	201	CYC	C2D-C1D-CHD-C4C
12	S7	201	CYC	C2D-C1D-CHD-C4C
12	B7	201	CYC	C2D-C1D-CHD-C4C
12	C7	201	CYC	C2D-C1D-CHD-C4C
12	D7	201	CYC	C2D-C1D-CHD-C4C
12	E7	201	CYC	C2D-C1D-CHD-C4C
12	F7	201	CYC	C2D-C1D-CHD-C4C
12	G7	201	CYC	C2D-C1D-CHD-C4C
12	H7	201	CYC	C2D-C1D-CHD-C4C
12	I7	201	CYC	C2D-C1D-CHD-C4C
12	J7	201	CYC	C2D-C1D-CHD-C4C
12	K7	201	CYC	C2D-C1D-CHD-C4C
12	L7	201	CYC	C2D-C1D-CHD-C4C
12	M7	201	CYC	C2D-C1D-CHD-C4C
12	N7	201	CYC	C2D-C1D-CHD-C4C
12	g7	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	h7	201	CYC	C2D-C1D-CHD-C4C
12	i7	201	CYC	C2D-C1D-CHD-C4C
12	j7	201	CYC	C2D-C1D-CHD-C4C
12	k7	201	CYC	C2D-C1D-CHD-C4C
12	T7	201	CYC	C2D-C1D-CHD-C4C
12	U7	201	CYC	C2D-C1D-CHD-C4C
12	V7	201	CYC	C2D-C1D-CHD-C4C
12	W7	201	CYC	C2D-C1D-CHD-C4C
12	X7	201	CYC	C2D-C1D-CHD-C4C
12	Y7	201	CYC	C2D-C1D-CHD-C4C
12	a7	201	CYC	C2D-C1D-CHD-C4C
12	b7	201	CYC	C2D-C1D-CHD-C4C
12	c7	201	CYC	C2D-C1D-CHD-C4C
12	d7	201	CYC	C2D-C1D-CHD-C4C
12	e7	201	CYC	C2D-C1D-CHD-C4C
12	f7	201	CYC	C2D-C1D-CHD-C4C
12	E1	201	CYC	C2D-C1D-CHD-C4C
12	A8	201	CYC	C2D-C1D-CHD-C4C
12	B8	201	CYC	C2D-C1D-CHD-C4C
12	B8	202	CYC	C2D-C1D-CHD-C4C
12	C8	201	CYC	C2D-C1D-CHD-C4C
12	D8	201	CYC	C2D-C1D-CHD-C4C
12	D8	202	CYC	C2D-C1D-CHD-C4C
12	E8	201	CYC	C2D-C1D-CHD-C4C
12	m7	201	CYC	C2D-C1D-CHD-C4C
12	o7	201	CYC	C2D-C1D-CHD-C4C
12	p7	201	CYC	C2D-C1D-CHD-C4C
12	q7	201	CYC	C2D-C1D-CHD-C4C
12	r7	201	CYC	C2D-C1D-CHD-C4C
12	s7	201	CYC	C2D-C1D-CHD-C4C
12	u7	201	CYC	C2D-C1D-CHD-C4C
12	v7	201	CYC	C2D-C1D-CHD-C4C
12	T8	201	CYC	C2D-C1D-CHD-C4C
12	U8	201	CYC	C2D-C1D-CHD-C4C
12	U8	202	CYC	C2D-C1D-CHD-C4C
12	V8	201	CYC	C2D-C1D-CHD-C4C
12	W8	201	CYC	C2D-C1D-CHD-C4C
12	W8	202	CYC	C2D-C1D-CHD-C4C
12	X8	201	CYC	C2D-C1D-CHD-C4C
12	F8	201	CYC	C2D-C1D-CHD-C4C
12	F8	202	CYC	C2D-C1D-CHD-C4C
12	G8	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	H8	201	CYC	C2D-C1D-CHD-C4C
12	H8	202	CYC	C2D-C1D-CHD-C4C
12	I8	201	CYC	C2D-C1D-CHD-C4C
12	J8	201	CYC	C2D-C1D-CHD-C4C
12	J8	202	CYC	C2D-C1D-CHD-C4C
12	K8	201	CYC	C2D-C1D-CHD-C4C
12	L8	201	CYC	C2D-C1D-CHD-C4C
12	M8	301	CYC	C2D-C1D-CHD-C4C
12	M8	302	CYC	C2D-C1D-CHD-C4C
12	N8	201	CYC	C2D-C1D-CHD-C4C
12	O8	201	CYC	C2D-C1D-CHD-C4C
12	O8	202	CYC	C2D-C1D-CHD-C4C
12	P8	201	CYC	C2D-C1D-CHD-C4C
12	Q8	201	CYC	C2D-C1D-CHD-C4C
12	R8	201	CYC	C2D-C1D-CHD-C4C
12	S8	201	CYC	C2D-C1D-CHD-C4C
12	F1	201	CYC	C2D-C1D-CHD-C4C
12	F1	202	CYC	C2D-C1D-CHD-C4C
12	L9	201	CYC	C2D-C1D-CHD-C4C
12	L9	202	CYC	C2D-C1D-CHD-C4C
12	O9	201	CYC	C2D-C1D-CHD-C4C
12	P9	201	CYC	C2D-C1D-CHD-C4C
12	P9	202	CYC	C2D-C1D-CHD-C4C
12	Q9	201	CYC	C2D-C1D-CHD-C4C
12	Y8	201	CYC	C2D-C1D-CHD-C4C
12	Z8	301	CYC	C2D-C1D-CHD-C4C
12	A9	201	CYC	C2D-C1D-CHD-C4C
12	B9	201	CYC	C2D-C1D-CHD-C4C
12	B9	202	CYC	C2D-C1D-CHD-C4C
12	C9	201	CYC	C2D-C1D-CHD-C4C
12	D9	201	CYC	C2D-C1D-CHD-C4C
12	D9	202	CYC	C2D-C1D-CHD-C4C
12	E9	201	CYC	C2D-C1D-CHD-C4C
12	F9	301	CYC	C2D-C1D-CHD-C4C
12	F9	302	CYC	C2D-C1D-CHD-C4C
12	F9	303	CYC	C2D-C1D-CHD-C4C
12	G9	201	CYC	C2D-C1D-CHD-C4C
12	H9	201	CYC	C2D-C1D-CHD-C4C
12	H9	202	CYC	C2D-C1D-CHD-C4C
12	I9	201	CYC	C2D-C1D-CHD-C4C
12	J9	201	CYC	C2D-C1D-CHD-C4C
12	J9	202	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	K9	201	CYC	C2D-C1D-CHD-C4C
12	R9	201	CYC	C2D-C1D-CHD-C4C
12	R9	202	CYC	C2D-C1D-CHD-C4C
12	S9	201	CYC	C2D-C1D-CHD-C4C
12	T9	301	CYC	C2D-C1D-CHD-C4C
12	T9	302	CYC	C2D-C1D-CHD-C4C
12	U9	201	CYC	C2D-C1D-CHD-C4C
12	V9	201	CYC	C2D-C1D-CHD-C4C
12	V9	202	CYC	C2D-C1D-CHD-C4C
12	W9	201	CYC	C2D-C1D-CHD-C4C
12	X9	201	CYC	C2D-C1D-CHD-C4C
12	X9	202	CYC	C2D-C1D-CHD-C4C
12	Y9	201	CYC	C2D-C1D-CHD-C4C
12	Z9	201	CYC	C2D-C1D-CHD-C4C
12	Z9	202	CYC	C2D-C1D-CHD-C4C
12	G1	201	CYC	C2D-C1D-CHD-C4C
12	a9	901	CYC	C2D-C1D-CHD-C4C
12	aA	901	CYC	C2D-C1D-CHD-C4C
12	aA	902	CYC	C2D-C1D-CHD-C4C
12	H1	201	CYC	C2D-C1D-CHD-C4C
12	H1	202	CYC	C2D-C1D-CHD-C4C
12	I1	201	CYC	C2D-C1D-CHD-C4C
12	J1	201	CYC	C2D-C1D-CHD-C4C
12	K1	201	CYC	C2D-C1D-CHD-C4C
12	L1	201	CYC	C2D-C1D-CHD-C4C
12	T1	301	CYC	C2D-C1D-CHD-C4C
12	T1	302	CYC	C2D-C1D-CHD-C4C
12	U1	201	CYC	C2D-C1D-CHD-C4C
12	V1	201	CYC	C2D-C1D-CHD-C4C
12	V1	202	CYC	C2D-C1D-CHD-C4C
12	W1	201	CYC	C2D-C1D-CHD-C4C
12	X1	201	CYC	C2D-C1D-CHD-C4C
12	X1	202	CYC	C2D-C1D-CHD-C4C
12	Y1	201	CYC	C2D-C1D-CHD-C4C
12	Z1	201	CYC	C2D-C1D-CHD-C4C
12	Z1	202	CYC	C2D-C1D-CHD-C4C
12	A2	201	CYC	C2D-C1D-CHD-C4C
12	B2	201	CYC	C2D-C1D-CHD-C4C
12	C2	201	CYC	C2D-C1D-CHD-C4C
12	D2	201	CYC	C2D-C1D-CHD-C4C
12	D2	202	CYC	C2D-C1D-CHD-C4C
12	E2	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	F2	201	CYC	C2D-C1D-CHD-C4C
12	F2	202	CYC	C2D-C1D-CHD-C4C
12	K5	201	CYC	ND-C1D-CHD-C4C
12	M5	201	CYC	ND-C1D-CHD-C4C
12	O5	201	CYC	ND-C1D-CHD-C4C
12	A5	201	CYC	ND-C1D-CHD-C4C
12	C5	201	CYC	ND-C1D-CHD-C4C
12	E5	201	CYC	ND-C1D-CHD-C4C
12	G5	201	CYC	ND-C1D-CHD-C4C
12	I5	201	CYC	ND-C1D-CHD-C4C
12	c5	201	CYC	ND-C1D-CHD-C4C
12	e5	201	CYC	ND-C1D-CHD-C4C
12	Q5	201	CYC	ND-C1D-CHD-C4C
12	S5	201	CYC	ND-C1D-CHD-C4C
12	U5	201	CYC	ND-C1D-CHD-C4C
12	W5	201	CYC	ND-C1D-CHD-C4C
12	Y5	201	CYC	ND-C1D-CHD-C4C
12	a5	201	CYC	ND-C1D-CHD-C4C
12	A7	201	CYC	ND-C1D-CHD-C4C
12	O7	201	CYC	ND-C1D-CHD-C4C
12	Q7	201	CYC	ND-C1D-CHD-C4C
12	S7	201	CYC	ND-C1D-CHD-C4C
12	C7	201	CYC	ND-C1D-CHD-C4C
12	E7	201	CYC	ND-C1D-CHD-C4C
12	G7	201	CYC	ND-C1D-CHD-C4C
12	I7	201	CYC	ND-C1D-CHD-C4C
12	K7	201	CYC	ND-C1D-CHD-C4C
12	M7	201	CYC	ND-C1D-CHD-C4C
12	g7	201	CYC	ND-C1D-CHD-C4C
12	i7	201	CYC	ND-C1D-CHD-C4C
12	k7	201	CYC	ND-C1D-CHD-C4C
12	U7	201	CYC	ND-C1D-CHD-C4C
12	W7	201	CYC	ND-C1D-CHD-C4C
12	Y7	201	CYC	ND-C1D-CHD-C4C
12	a7	201	CYC	ND-C1D-CHD-C4C
12	c7	201	CYC	ND-C1D-CHD-C4C
12	e7	201	CYC	ND-C1D-CHD-C4C
12	m7	201	CYC	ND-C1D-CHD-C4C
12	o7	201	CYC	ND-C1D-CHD-C4C
12	q7	201	CYC	ND-C1D-CHD-C4C
12	s7	201	CYC	ND-C1D-CHD-C4C
12	u7	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
12	j5	1201	CYC	C3D-CAD-CBD-CGD
12	k5	1201	CYC	C3D-CAD-CBD-CGD
12	K5	201	CYC	C3A-C4A-CHB-C1B
12	M5	201	CYC	C3A-C4A-CHB-C1B
12	O5	201	CYC	C3A-C4A-CHB-C1B
12	A5	201	CYC	C3A-C4A-CHB-C1B
12	C5	201	CYC	C3A-C4A-CHB-C1B
12	E5	201	CYC	C3A-C4A-CHB-C1B
12	G5	201	CYC	C3A-C4A-CHB-C1B
12	I5	201	CYC	C3A-C4A-CHB-C1B
12	c5	201	CYC	C3A-C4A-CHB-C1B
12	e5	201	CYC	C3A-C4A-CHB-C1B
12	Q5	201	CYC	C3A-C4A-CHB-C1B
12	S5	201	CYC	C3A-C4A-CHB-C1B
12	U5	201	CYC	C3A-C4A-CHB-C1B
12	W5	201	CYC	C3A-C4A-CHB-C1B
12	Y5	201	CYC	C3A-C4A-CHB-C1B
12	a5	201	CYC	C3A-C4A-CHB-C1B
12	A7	201	CYC	C3A-C4A-CHB-C1B
12	O7	201	CYC	C3A-C4A-CHB-C1B
12	Q7	201	CYC	C3A-C4A-CHB-C1B
12	S7	201	CYC	C3A-C4A-CHB-C1B
12	C7	201	CYC	C3A-C4A-CHB-C1B
12	E7	201	CYC	C3A-C4A-CHB-C1B
12	G7	201	CYC	C3A-C4A-CHB-C1B
12	I7	201	CYC	C3A-C4A-CHB-C1B
12	K7	201	CYC	C3A-C4A-CHB-C1B
12	M7	201	CYC	C3A-C4A-CHB-C1B
12	g7	201	CYC	C3A-C4A-CHB-C1B
12	i7	201	CYC	C3A-C4A-CHB-C1B
12	k7	201	CYC	C3A-C4A-CHB-C1B
12	U7	201	CYC	C3A-C4A-CHB-C1B
12	W7	201	CYC	C3A-C4A-CHB-C1B
12	Y7	201	CYC	C3A-C4A-CHB-C1B
12	a7	201	CYC	C3A-C4A-CHB-C1B
12	c7	201	CYC	C3A-C4A-CHB-C1B
12	e7	201	CYC	C3A-C4A-CHB-C1B
12	m7	201	CYC	C3A-C4A-CHB-C1B
12	o7	201	CYC	C3A-C4A-CHB-C1B
12	q7	201	CYC	C3A-C4A-CHB-C1B
12	s7	201	CYC	C3A-C4A-CHB-C1B
12	u7	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	K5	201	CYC	NA-C4A-CHB-C1B
12	M5	201	CYC	NA-C4A-CHB-C1B
12	O5	201	CYC	NA-C4A-CHB-C1B
12	A5	201	CYC	NA-C4A-CHB-C1B
12	C5	201	CYC	NA-C4A-CHB-C1B
12	E5	201	CYC	NA-C4A-CHB-C1B
12	G5	201	CYC	NA-C4A-CHB-C1B
12	I5	201	CYC	NA-C4A-CHB-C1B
12	c5	201	CYC	NA-C4A-CHB-C1B
12	e5	201	CYC	NA-C4A-CHB-C1B
12	Q5	201	CYC	NA-C4A-CHB-C1B
12	S5	201	CYC	NA-C4A-CHB-C1B
12	U5	201	CYC	NA-C4A-CHB-C1B
12	W5	201	CYC	NA-C4A-CHB-C1B
12	Y5	201	CYC	NA-C4A-CHB-C1B
12	a5	201	CYC	NA-C4A-CHB-C1B
12	A7	201	CYC	NA-C4A-CHB-C1B
12	O7	201	CYC	NA-C4A-CHB-C1B
12	Q7	201	CYC	NA-C4A-CHB-C1B
12	S7	201	CYC	NA-C4A-CHB-C1B
12	C7	201	CYC	NA-C4A-CHB-C1B
12	E7	201	CYC	NA-C4A-CHB-C1B
12	G7	201	CYC	NA-C4A-CHB-C1B
12	I7	201	CYC	NA-C4A-CHB-C1B
12	K7	201	CYC	NA-C4A-CHB-C1B
12	M7	201	CYC	NA-C4A-CHB-C1B
12	g7	201	CYC	NA-C4A-CHB-C1B
12	i7	201	CYC	NA-C4A-CHB-C1B
12	k7	201	CYC	NA-C4A-CHB-C1B
12	U7	201	CYC	NA-C4A-CHB-C1B
12	W7	201	CYC	NA-C4A-CHB-C1B
12	Y7	201	CYC	NA-C4A-CHB-C1B
12	a7	201	CYC	NA-C4A-CHB-C1B
12	c7	201	CYC	NA-C4A-CHB-C1B
12	e7	201	CYC	NA-C4A-CHB-C1B
12	m7	201	CYC	NA-C4A-CHB-C1B
12	o7	201	CYC	NA-C4A-CHB-C1B
12	q7	201	CYC	NA-C4A-CHB-C1B
12	s7	201	CYC	NA-C4A-CHB-C1B
12	u7	201	CYC	NA-C4A-CHB-C1B
12	A	201	CYC	C3A-C4A-CHB-C1B
12	Z	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	BA	202	CYC	C3A-C4A-CHB-C1B
12	DA	202	CYC	C3A-C4A-CHB-C1B
12	HA	201	CYC	C3A-C4A-CHB-C1B
12	JA	201	CYC	C3A-C4A-CHB-C1B
12	LA	201	CYC	C3A-C4A-CHB-C1B
12	PA	202	CYC	C3A-C4A-CHB-C1B
12	RA	202	CYC	C3A-C4A-CHB-C1B
12	TA	302	CYC	C3A-C4A-CHB-C1B
12	VA	202	CYC	C3A-C4A-CHB-C1B
12	XA	202	CYC	C3A-C4A-CHB-C1B
12	ZA	201	CYC	C3A-C4A-CHB-C1B
12	P1	202	CYC	C3A-C4A-CHB-C1B
12	R1	202	CYC	C3A-C4A-CHB-C1B
12	H3	201	CYC	C3A-C4A-CHB-C1B
12	J3	201	CYC	C3A-C4A-CHB-C1B
12	H2	202	CYC	C3A-C4A-CHB-C1B
12	J2	201	CYC	C3A-C4A-CHB-C1B
12	L2	202	CYC	C3A-C4A-CHB-C1B
12	B3	201	CYC	C3A-C4A-CHB-C1B
12	D3	201	CYC	C3A-C4A-CHB-C1B
12	F3	202	CYC	C3A-C4A-CHB-C1B
12	Z3	202	CYC	C3A-C4A-CHB-C1B
12	B4	201	CYC	C3A-C4A-CHB-C1B
12	D4	201	CYC	C3A-C4A-CHB-C1B
12	L3	201	CYC	C3A-C4A-CHB-C1B
12	P3	202	CYC	C3A-C4A-CHB-C1B
12	R3	202	CYC	C3A-C4A-CHB-C1B
12	T3	302	CYC	C3A-C4A-CHB-C1B
12	V3	202	CYC	C3A-C4A-CHB-C1B
12	X3	202	CYC	C3A-C4A-CHB-C1B
12	B1	201	CYC	C3A-C4A-CHB-C1B
12	S4	201	CYC	C3A-C4A-CHB-C1B
12	U4	202	CYC	C3A-C4A-CHB-C1B
12	W4	202	CYC	C3A-C4A-CHB-C1B
12	F4	201	CYC	C3A-C4A-CHB-C1B
12	H4	202	CYC	C3A-C4A-CHB-C1B
12	J4	202	CYC	C3A-C4A-CHB-C1B
12	L4	201	CYC	C3A-C4A-CHB-C1B
12	O4	202	CYC	C3A-C4A-CHB-C1B
12	Q4	201	CYC	C3A-C4A-CHB-C1B
12	L5	201	CYC	C3A-C4A-CHB-C1B
12	N5	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	Y4	201	CYC	C3A-C4A-CHB-C1B
12	B5	201	CYC	C3A-C4A-CHB-C1B
12	D5	201	CYC	C3A-C4A-CHB-C1B
12	F5	201	CYC	C3A-C4A-CHB-C1B
12	H5	201	CYC	C3A-C4A-CHB-C1B
12	J5	201	CYC	C3A-C4A-CHB-C1B
12	d5	201	CYC	C3A-C4A-CHB-C1B
12	f5	201	CYC	C3A-C4A-CHB-C1B
12	P5	201	CYC	C3A-C4A-CHB-C1B
12	R5	201	CYC	C3A-C4A-CHB-C1B
12	T5	201	CYC	C3A-C4A-CHB-C1B
12	V5	201	CYC	C3A-C4A-CHB-C1B
12	X5	201	CYC	C3A-C4A-CHB-C1B
12	Z5	201	CYC	C3A-C4A-CHB-C1B
12	b5	201	CYC	C3A-C4A-CHB-C1B
12	J6	201	CYC	C3A-C4A-CHB-C1B
12	L6	202	CYC	C3A-C4A-CHB-C1B
12	j5	1202	CYC	C3A-C4A-CHB-C1B
12	k5	1202	CYC	C3A-C4A-CHB-C1B
12	k5	1203	CYC	C3A-C4A-CHB-C1B
12	k5	1204	CYC	C3A-C4A-CHB-C1B
12	B6	201	CYC	C3A-C4A-CHB-C1B
12	D6	202	CYC	C3A-C4A-CHB-C1B
12	F6	202	CYC	C3A-C4A-CHB-C1B
12	H6	202	CYC	C3A-C4A-CHB-C1B
12	D1	201	CYC	C3A-C4A-CHB-C1B
12	P7	201	CYC	C3A-C4A-CHB-C1B
12	R7	201	CYC	C3A-C4A-CHB-C1B
12	B7	201	CYC	C3A-C4A-CHB-C1B
12	D7	201	CYC	C3A-C4A-CHB-C1B
12	F7	201	CYC	C3A-C4A-CHB-C1B
12	H7	201	CYC	C3A-C4A-CHB-C1B
12	J7	201	CYC	C3A-C4A-CHB-C1B
12	L7	201	CYC	C3A-C4A-CHB-C1B
12	N7	201	CYC	C3A-C4A-CHB-C1B
12	h7	201	CYC	C3A-C4A-CHB-C1B
12	j7	201	CYC	C3A-C4A-CHB-C1B
12	T7	201	CYC	C3A-C4A-CHB-C1B
12	V7	201	CYC	C3A-C4A-CHB-C1B
12	X7	201	CYC	C3A-C4A-CHB-C1B
12	b7	201	CYC	C3A-C4A-CHB-C1B
12	d7	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
12	f7	201	CYC	C3A-C4A-CHB-C1B
12	B8	201	CYC	C3A-C4A-CHB-C1B
12	D8	201	CYC	C3A-C4A-CHB-C1B
12	p7	201	CYC	C3A-C4A-CHB-C1B
12	r7	201	CYC	C3A-C4A-CHB-C1B
12	v7	201	CYC	C3A-C4A-CHB-C1B
12	U8	202	CYC	C3A-C4A-CHB-C1B
12	W8	202	CYC	C3A-C4A-CHB-C1B
12	F8	201	CYC	C3A-C4A-CHB-C1B
12	H8	202	CYC	C3A-C4A-CHB-C1B
12	J8	202	CYC	C3A-C4A-CHB-C1B
12	L8	201	CYC	C3A-C4A-CHB-C1B
12	O8	202	CYC	C3A-C4A-CHB-C1B
12	Q8	201	CYC	C3A-C4A-CHB-C1B
12	S8	201	CYC	C3A-C4A-CHB-C1B
12	F1	202	CYC	C3A-C4A-CHB-C1B
12	L9	201	CYC	C3A-C4A-CHB-C1B
12	P9	202	CYC	C3A-C4A-CHB-C1B
12	Y8	201	CYC	C3A-C4A-CHB-C1B
12	B9	202	CYC	C3A-C4A-CHB-C1B
12	D9	202	CYC	C3A-C4A-CHB-C1B
12	F9	302	CYC	C3A-C4A-CHB-C1B
12	F9	303	CYC	C3A-C4A-CHB-C1B
12	H9	201	CYC	C3A-C4A-CHB-C1B
12	J9	201	CYC	C3A-C4A-CHB-C1B
12	R9	202	CYC	C3A-C4A-CHB-C1B
12	T9	302	CYC	C3A-C4A-CHB-C1B
12	V9	202	CYC	C3A-C4A-CHB-C1B
12	X9	202	CYC	C3A-C4A-CHB-C1B
12	Z9	201	CYC	C3A-C4A-CHB-C1B
12	H1	202	CYC	C3A-C4A-CHB-C1B
12	J1	201	CYC	C3A-C4A-CHB-C1B
12	L1	201	CYC	C3A-C4A-CHB-C1B
12	T1	302	CYC	C3A-C4A-CHB-C1B
12	V1	202	CYC	C3A-C4A-CHB-C1B
12	X1	202	CYC	C3A-C4A-CHB-C1B
12	Z1	201	CYC	C3A-C4A-CHB-C1B
12	B2	201	CYC	C3A-C4A-CHB-C1B
12	D2	202	CYC	C3A-C4A-CHB-C1B
12	F2	202	CYC	C3A-C4A-CHB-C1B
12	A	201	CYC	C4B-C3B-CAB-CBB
12	Z	201	CYC	C4B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
12	L5	201	CYC	C4B-C3B-CAB-CBB
12	N5	201	CYC	C4B-C3B-CAB-CBB
12	B5	201	CYC	C4B-C3B-CAB-CBB
12	D5	201	CYC	C4B-C3B-CAB-CBB
12	F5	201	CYC	C4B-C3B-CAB-CBB
12	H5	201	CYC	C4B-C3B-CAB-CBB
12	J5	201	CYC	C4B-C3B-CAB-CBB
12	d5	201	CYC	C4B-C3B-CAB-CBB
12	f5	201	CYC	C4B-C3B-CAB-CBB
12	P5	201	CYC	C4B-C3B-CAB-CBB
12	R5	201	CYC	C4B-C3B-CAB-CBB
12	T5	201	CYC	C4B-C3B-CAB-CBB
12	V5	201	CYC	C4B-C3B-CAB-CBB
12	X5	201	CYC	C4B-C3B-CAB-CBB
12	Z5	201	CYC	C4B-C3B-CAB-CBB
12	b5	201	CYC	C4B-C3B-CAB-CBB
12	j5	1202	CYC	C4B-C3B-CAB-CBB
12	k5	1202	CYC	C4B-C3B-CAB-CBB
12	k5	1203	CYC	C4B-C3B-CAB-CBB
12	k5	1204	CYC	C4B-C3B-CAB-CBB
12	P7	201	CYC	C4B-C3B-CAB-CBB
12	R7	201	CYC	C4B-C3B-CAB-CBB
12	B7	201	CYC	C4B-C3B-CAB-CBB
12	D7	201	CYC	C4B-C3B-CAB-CBB
12	F7	201	CYC	C4B-C3B-CAB-CBB
12	H7	201	CYC	C4B-C3B-CAB-CBB
12	J7	201	CYC	C4B-C3B-CAB-CBB
12	L7	201	CYC	C4B-C3B-CAB-CBB
12	N7	201	CYC	C4B-C3B-CAB-CBB
12	h7	201	CYC	C4B-C3B-CAB-CBB
12	j7	201	CYC	C4B-C3B-CAB-CBB
12	T7	201	CYC	C4B-C3B-CAB-CBB
12	V7	201	CYC	C4B-C3B-CAB-CBB
12	X7	201	CYC	C4B-C3B-CAB-CBB
12	b7	201	CYC	C4B-C3B-CAB-CBB
12	d7	201	CYC	C4B-C3B-CAB-CBB
12	f7	201	CYC	C4B-C3B-CAB-CBB
12	p7	201	CYC	C4B-C3B-CAB-CBB
12	r7	201	CYC	C4B-C3B-CAB-CBB
12	v7	201	CYC	C4B-C3B-CAB-CBB
12	BA	202	CYC	C2C-C3C-CAC-CBC
12	DA	202	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
12	HA	201	CYC	C2C-C3C-CAC-CBC
12	JA	201	CYC	C2C-C3C-CAC-CBC
12	LA	201	CYC	C2C-C3C-CAC-CBC
12	PA	202	CYC	C2C-C3C-CAC-CBC
12	RA	202	CYC	C2C-C3C-CAC-CBC
12	TA	302	CYC	C2C-C3C-CAC-CBC
12	VA	202	CYC	C2C-C3C-CAC-CBC
12	XA	202	CYC	C2C-C3C-CAC-CBC
12	ZA	201	CYC	C2C-C3C-CAC-CBC
12	P1	202	CYC	C2C-C3C-CAC-CBC
12	R1	202	CYC	C2C-C3C-CAC-CBC
12	H3	201	CYC	C2C-C3C-CAC-CBC
12	J3	201	CYC	C2C-C3C-CAC-CBC
12	H2	202	CYC	C2C-C3C-CAC-CBC
12	J2	201	CYC	C2C-C3C-CAC-CBC
12	L2	202	CYC	C2C-C3C-CAC-CBC
12	B3	201	CYC	C2C-C3C-CAC-CBC
12	D3	201	CYC	C2C-C3C-CAC-CBC
12	F3	202	CYC	C2C-C3C-CAC-CBC
12	Z3	202	CYC	C2C-C3C-CAC-CBC
12	B4	201	CYC	C2C-C3C-CAC-CBC
12	D4	201	CYC	C2C-C3C-CAC-CBC
12	L3	201	CYC	C2C-C3C-CAC-CBC
12	P3	202	CYC	C2C-C3C-CAC-CBC
12	R3	202	CYC	C2C-C3C-CAC-CBC
12	T3	302	CYC	C2C-C3C-CAC-CBC
12	V3	202	CYC	C2C-C3C-CAC-CBC
12	X3	202	CYC	C2C-C3C-CAC-CBC
12	B1	201	CYC	C2C-C3C-CAC-CBC
12	S4	201	CYC	C2C-C3C-CAC-CBC
12	U4	202	CYC	C2C-C3C-CAC-CBC
12	W4	202	CYC	C2C-C3C-CAC-CBC
12	F4	201	CYC	C2C-C3C-CAC-CBC
12	H4	202	CYC	C2C-C3C-CAC-CBC
12	J4	202	CYC	C2C-C3C-CAC-CBC
12	L4	201	CYC	C2C-C3C-CAC-CBC
12	O4	202	CYC	C2C-C3C-CAC-CBC
12	Q4	201	CYC	C2C-C3C-CAC-CBC
12	Y4	201	CYC	C2C-C3C-CAC-CBC
12	J6	201	CYC	C2C-C3C-CAC-CBC
12	L6	202	CYC	C2C-C3C-CAC-CBC
12	B6	201	CYC	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
12	D6	202	CYC	C2C-C3C-CAC-CBC
12	F6	202	CYC	C2C-C3C-CAC-CBC
12	H6	202	CYC	C2C-C3C-CAC-CBC
12	D1	201	CYC	C2C-C3C-CAC-CBC
12	B8	201	CYC	C2C-C3C-CAC-CBC
12	D8	201	CYC	C2C-C3C-CAC-CBC
12	U8	202	CYC	C2C-C3C-CAC-CBC
12	W8	202	CYC	C2C-C3C-CAC-CBC
12	F8	201	CYC	C2C-C3C-CAC-CBC
12	H8	202	CYC	C2C-C3C-CAC-CBC
12	J8	202	CYC	C2C-C3C-CAC-CBC
12	L8	201	CYC	C2C-C3C-CAC-CBC
12	O8	202	CYC	C2C-C3C-CAC-CBC
12	Q8	201	CYC	C2C-C3C-CAC-CBC
12	S8	201	CYC	C2C-C3C-CAC-CBC
12	F1	202	CYC	C2C-C3C-CAC-CBC
12	L9	201	CYC	C2C-C3C-CAC-CBC
12	P9	202	CYC	C2C-C3C-CAC-CBC
12	Y8	201	CYC	C2C-C3C-CAC-CBC
12	B9	202	CYC	C2C-C3C-CAC-CBC
12	D9	202	CYC	C2C-C3C-CAC-CBC
12	F9	302	CYC	C2C-C3C-CAC-CBC
12	F9	303	CYC	C2C-C3C-CAC-CBC
12	H9	201	CYC	C2C-C3C-CAC-CBC
12	J9	201	CYC	C2C-C3C-CAC-CBC
12	R9	202	CYC	C2C-C3C-CAC-CBC
12	T9	302	CYC	C2C-C3C-CAC-CBC
12	V9	202	CYC	C2C-C3C-CAC-CBC
12	X9	202	CYC	C2C-C3C-CAC-CBC
12	Z9	201	CYC	C2C-C3C-CAC-CBC
12	H1	202	CYC	C2C-C3C-CAC-CBC
12	J1	201	CYC	C2C-C3C-CAC-CBC
12	L1	201	CYC	C2C-C3C-CAC-CBC
12	T1	302	CYC	C2C-C3C-CAC-CBC
12	V1	202	CYC	C2C-C3C-CAC-CBC
12	X1	202	CYC	C2C-C3C-CAC-CBC
12	Z1	201	CYC	C2C-C3C-CAC-CBC
12	B2	201	CYC	C2C-C3C-CAC-CBC
12	D2	202	CYC	C2C-C3C-CAC-CBC
12	F2	202	CYC	C2C-C3C-CAC-CBC
12	AA	201	CYC	CAA-CBA-CGA-O2A
12	IA	201	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
12	OA	201	CYC	CAA-CBA-CGA-O2A
12	QA	201	CYC	CAA-CBA-CGA-O2A
12	UA	201	CYC	CAA-CBA-CGA-O2A
12	WA	201	CYC	CAA-CBA-CGA-O2A
12	Q1	201	CYC	CAA-CBA-CGA-O2A
12	G3	201	CYC	CAA-CBA-CGA-O2A
12	I2	201	CYC	CAA-CBA-CGA-O2A
12	K2	201	CYC	CAA-CBA-CGA-O2A
12	C3	201	CYC	CAA-CBA-CGA-O2A
12	A4	201	CYC	CAA-CBA-CGA-O2A
12	C4	201	CYC	CAA-CBA-CGA-O2A
12	Q3	201	CYC	CAA-CBA-CGA-O2A
12	S3	201	CYC	CAA-CBA-CGA-O2A
12	U3	201	CYC	CAA-CBA-CGA-O2A
12	E4	201	CYC	CAA-CBA-CGA-O2A
12	G4	201	CYC	CAA-CBA-CGA-O2A
12	I4	201	CYC	CAA-CBA-CGA-O2A
12	N4	201	CYC	CAA-CBA-CGA-O2A
12	C1	201	CYC	CAA-CBA-CGA-O2A
12	K6	201	CYC	CAA-CBA-CGA-O2A
12	E6	201	CYC	CAA-CBA-CGA-O2A
12	I6	201	CYC	CAA-CBA-CGA-O2A
12	A8	201	CYC	CAA-CBA-CGA-O2A
12	C8	201	CYC	CAA-CBA-CGA-O2A
12	E8	201	CYC	CAA-CBA-CGA-O2A
12	G8	201	CYC	CAA-CBA-CGA-O2A
12	I8	201	CYC	CAA-CBA-CGA-O2A
12	N8	201	CYC	CAA-CBA-CGA-O2A
12	O9	201	CYC	CAA-CBA-CGA-O2A
12	Q9	201	CYC	CAA-CBA-CGA-O2A
12	A9	201	CYC	CAA-CBA-CGA-O2A
12	I9	201	CYC	CAA-CBA-CGA-O2A
12	S9	201	CYC	CAA-CBA-CGA-O2A
12	U9	201	CYC	CAA-CBA-CGA-O2A
12	W9	201	CYC	CAA-CBA-CGA-O2A
12	G1	201	CYC	CAA-CBA-CGA-O2A
12	U1	201	CYC	CAA-CBA-CGA-O2A
12	A2	201	CYC	CAA-CBA-CGA-O2A
12	E2	201	CYC	CAA-CBA-CGA-O2A
12	CA	201	CYC	CAA-CBA-CGA-O2A
12	EA	201	CYC	CAA-CBA-CGA-O2A
12	GA	201	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
12	KA	201	CYC	CAA-CBA-CGA-O2A
12	SA	201	CYC	CAA-CBA-CGA-O2A
12	YA	201	CYC	CAA-CBA-CGA-O2A
12	O1	201	CYC	CAA-CBA-CGA-O2A
12	S1	201	CYC	CAA-CBA-CGA-O2A
12	A1	201	CYC	CAA-CBA-CGA-O2A
12	I3	201	CYC	CAA-CBA-CGA-O2A
12	K3	201	CYC	CAA-CBA-CGA-O2A
12	G2	201	CYC	CAA-CBA-CGA-O2A
12	A3	201	CYC	CAA-CBA-CGA-O2A
12	E3	201	CYC	CAA-CBA-CGA-O2A
12	O3	201	CYC	CAA-CBA-CGA-O2A
12	W3	201	CYC	CAA-CBA-CGA-O2A
12	Y3	201	CYC	CAA-CBA-CGA-O2A
12	T4	201	CYC	CAA-CBA-CGA-O2A
12	V4	201	CYC	CAA-CBA-CGA-O2A
12	K4	201	CYC	CAA-CBA-CGA-O2A
12	P4	201	CYC	CAA-CBA-CGA-O2A
12	R4	201	CYC	CAA-CBA-CGA-O2A
12	O5	201	CYC	CAA-CBA-CGA-O2A
12	X4	201	CYC	CAA-CBA-CGA-O2A
12	A5	201	CYC	CAA-CBA-CGA-O2A
12	C5	201	CYC	CAA-CBA-CGA-O2A
12	E5	201	CYC	CAA-CBA-CGA-O2A
12	G5	201	CYC	CAA-CBA-CGA-O2A
12	I5	201	CYC	CAA-CBA-CGA-O2A
12	c5	201	CYC	CAA-CBA-CGA-O2A
12	e5	201	CYC	CAA-CBA-CGA-O2A
12	U5	201	CYC	CAA-CBA-CGA-O2A
12	Y5	201	CYC	CAA-CBA-CGA-O2A
12	A7	201	CYC	CAA-CBA-CGA-O2A
12	A6	201	CYC	CAA-CBA-CGA-O2A
12	C6	201	CYC	CAA-CBA-CGA-O2A
12	G6	201	CYC	CAA-CBA-CGA-O2A
12	O7	201	CYC	CAA-CBA-CGA-O2A
12	S7	201	CYC	CAA-CBA-CGA-O2A
12	C7	201	CYC	CAA-CBA-CGA-O2A
12	G7	201	CYC	CAA-CBA-CGA-O2A
12	I7	201	CYC	CAA-CBA-CGA-O2A
12	M7	201	CYC	CAA-CBA-CGA-O2A
12	g7	201	CYC	CAA-CBA-CGA-O2A
12	k7	201	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
12	U7	201	CYC	CAA-CBA-CGA-O2A
12	a7	201	CYC	CAA-CBA-CGA-O2A
12	E1	201	CYC	CAA-CBA-CGA-O2A
12	q7	201	CYC	CAA-CBA-CGA-O2A
12	T8	201	CYC	CAA-CBA-CGA-O2A
12	V8	201	CYC	CAA-CBA-CGA-O2A
12	X8	201	CYC	CAA-CBA-CGA-O2A
12	K8	201	CYC	CAA-CBA-CGA-O2A
12	P8	201	CYC	CAA-CBA-CGA-O2A
12	R8	201	CYC	CAA-CBA-CGA-O2A
12	C9	201	CYC	CAA-CBA-CGA-O2A
12	E9	201	CYC	CAA-CBA-CGA-O2A
12	G9	201	CYC	CAA-CBA-CGA-O2A
12	K9	201	CYC	CAA-CBA-CGA-O2A
12	Y9	201	CYC	CAA-CBA-CGA-O2A
12	I1	201	CYC	CAA-CBA-CGA-O2A
12	K1	201	CYC	CAA-CBA-CGA-O2A
12	W1	201	CYC	CAA-CBA-CGA-O2A
12	Y1	201	CYC	CAA-CBA-CGA-O2A
12	C2	201	CYC	CAA-CBA-CGA-O2A
12	K5	201	CYC	CAA-CBA-CGA-O2A
12	M5	201	CYC	CAA-CBA-CGA-O2A
12	Q5	201	CYC	CAA-CBA-CGA-O2A
12	S5	201	CYC	CAA-CBA-CGA-O2A
12	W5	201	CYC	CAA-CBA-CGA-O2A
12	a5	201	CYC	CAA-CBA-CGA-O2A
12	Q7	201	CYC	CAA-CBA-CGA-O2A
12	E7	201	CYC	CAA-CBA-CGA-O2A
12	K7	201	CYC	CAA-CBA-CGA-O2A
12	i7	201	CYC	CAA-CBA-CGA-O2A
12	W7	201	CYC	CAA-CBA-CGA-O2A
12	Y7	201	CYC	CAA-CBA-CGA-O2A
12	c7	201	CYC	CAA-CBA-CGA-O2A
12	e7	201	CYC	CAA-CBA-CGA-O2A
12	o7	201	CYC	CAA-CBA-CGA-O2A
12	u7	201	CYC	CAA-CBA-CGA-O2A
12	s7	201	CYC	CAA-CBA-CGA-O2A
12	m7	201	CYC	CAA-CBA-CGA-O2A
12	K8	201	CYC	CAD-CBD-CGD-O2D
12	OA	201	CYC	CAD-CBD-CGD-O2D
12	K4	201	CYC	CAD-CBD-CGD-O2D
12	E6	201	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
12	O9	201	CYC	CAD-CBD-CGD-O2D
12	AA	201	CYC	CAD-CBD-CGD-O2D
12	KA	201	CYC	CAD-CBD-CGD-O2D
12	YA	201	CYC	CAD-CBD-CGD-O2D
12	G2	201	CYC	CAD-CBD-CGD-O2D
12	Y3	201	CYC	CAD-CBD-CGD-O2D
12	X4	201	CYC	CAD-CBD-CGD-O2D
12	X8	201	CYC	CAD-CBD-CGD-O2D
12	A9	201	CYC	CAD-CBD-CGD-O2D
12	K9	201	CYC	CAD-CBD-CGD-O2D
12	Y9	201	CYC	CAD-CBD-CGD-O2D
12	Y1	201	CYC	CAD-CBD-CGD-O2D
12	E2	201	CYC	CAD-CBD-CGD-O2D
12	IA	201	CYC	CAD-CBD-CGD-O2D
12	QA	201	CYC	CAD-CBD-CGD-O2D
12	SA	201	CYC	CAD-CBD-CGD-O2D
12	A1	201	CYC	CAD-CBD-CGD-O2D
12	I2	201	CYC	CAD-CBD-CGD-O2D
12	A3	201	CYC	CAD-CBD-CGD-O2D
12	C3	201	CYC	CAD-CBD-CGD-O2D
12	E3	201	CYC	CAD-CBD-CGD-O2D
12	T4	201	CYC	CAD-CBD-CGD-O2D
12	V4	201	CYC	CAD-CBD-CGD-O2D
12	I4	201	CYC	CAD-CBD-CGD-O2D
12	N4	201	CYC	CAD-CBD-CGD-O2D
12	P4	201	CYC	CAD-CBD-CGD-O2D
12	C6	201	CYC	CAD-CBD-CGD-O2D
12	G6	201	CYC	CAD-CBD-CGD-O2D
12	I6	201	CYC	CAD-CBD-CGD-O2D
12	E1	201	CYC	CAD-CBD-CGD-O2D
12	T8	201	CYC	CAD-CBD-CGD-O2D
12	V8	201	CYC	CAD-CBD-CGD-O2D
12	I8	201	CYC	CAD-CBD-CGD-O2D
12	N8	201	CYC	CAD-CBD-CGD-O2D
12	P8	201	CYC	CAD-CBD-CGD-O2D
12	Q9	201	CYC	CAD-CBD-CGD-O2D
12	I9	201	CYC	CAD-CBD-CGD-O2D
12	Z9	201	CYC	CAA-CBA-CGA-O2A
12	CA	201	CYC	CAD-CBD-CGD-O2D
12	EA	201	CYC	CAD-CBD-CGD-O2D
12	GA	201	CYC	CAD-CBD-CGD-O2D
12	TA	302	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
12	UA	201	CYC	CAD-CBD-CGD-O2D
12	WA	201	CYC	CAD-CBD-CGD-O2D
12	ZA	201	CYC	CAA-CBA-CGA-O2A
12	O1	201	CYC	CAD-CBD-CGD-O2D
12	Q1	201	CYC	CAD-CBD-CGD-O2D
12	S1	201	CYC	CAD-CBD-CGD-O2D
12	G3	201	CYC	CAD-CBD-CGD-O2D
12	I3	201	CYC	CAD-CBD-CGD-O2D
12	K3	201	CYC	CAD-CBD-CGD-O2D
12	K2	201	CYC	CAD-CBD-CGD-O2D
12	D3	201	CYC	CAA-CBA-CGA-O2A
12	A4	201	CYC	CAD-CBD-CGD-O2D
12	C4	201	CYC	CAD-CBD-CGD-O2D
12	O3	201	CYC	CAD-CBD-CGD-O2D
12	Q3	201	CYC	CAD-CBD-CGD-O2D
12	S3	201	CYC	CAD-CBD-CGD-O2D
12	U3	201	CYC	CAD-CBD-CGD-O2D
12	W3	201	CYC	CAD-CBD-CGD-O2D
12	E4	201	CYC	CAD-CBD-CGD-O2D
12	G4	201	CYC	CAD-CBD-CGD-O2D
12	J4	202	CYC	CAA-CBA-CGA-O2A
12	R4	201	CYC	CAD-CBD-CGD-O2D
12	Y4	201	CYC	CAA-CBA-CGA-O2A
12	C1	201	CYC	CAD-CBD-CGD-O2D
12	K6	201	CYC	CAD-CBD-CGD-O2D
12	A6	201	CYC	CAD-CBD-CGD-O2D
12	D1	201	CYC	CAA-CBA-CGA-O2A
12	A8	201	CYC	CAD-CBD-CGD-O2D
12	C8	201	CYC	CAD-CBD-CGD-O2D
12	E8	201	CYC	CAD-CBD-CGD-O2D
12	G8	201	CYC	CAD-CBD-CGD-O2D
12	J8	202	CYC	CAA-CBA-CGA-O2A
12	R8	201	CYC	CAD-CBD-CGD-O2D
12	Y8	201	CYC	CAA-CBA-CGA-O2A
12	C9	201	CYC	CAD-CBD-CGD-O2D
12	E9	201	CYC	CAD-CBD-CGD-O2D
12	G9	201	CYC	CAD-CBD-CGD-O2D
12	S9	201	CYC	CAD-CBD-CGD-O2D
12	T9	302	CYC	CAA-CBA-CGA-O2A
12	U9	201	CYC	CAD-CBD-CGD-O2D
12	W9	201	CYC	CAD-CBD-CGD-O2D
12	G1	201	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
12	I1	201	CYC	CAD-CBD-CGD-O2D
12	K1	201	CYC	CAD-CBD-CGD-O2D
12	U1	201	CYC	CAD-CBD-CGD-O2D
12	W1	201	CYC	CAD-CBD-CGD-O2D
12	A2	201	CYC	CAD-CBD-CGD-O2D
12	C2	201	CYC	CAD-CBD-CGD-O2D
12	BA	202	CYC	CAA-CBA-CGA-O2A
12	DA	202	CYC	CAA-CBA-CGA-O2A
12	HA	201	CYC	CAA-CBA-CGA-O2A
12	JA	201	CYC	CAA-CBA-CGA-O2A
12	LA	201	CYC	CAA-CBA-CGA-O2A
12	PA	202	CYC	CAA-CBA-CGA-O2A
12	RA	202	CYC	CAA-CBA-CGA-O2A
12	VA	202	CYC	CAA-CBA-CGA-O2A
12	R1	202	CYC	CAA-CBA-CGA-O2A
12	H3	201	CYC	CAA-CBA-CGA-O2A
12	J3	201	CYC	CAA-CBA-CGA-O2A
12	H2	202	CYC	CAA-CBA-CGA-O2A
12	J2	201	CYC	CAA-CBA-CGA-O2A
12	L2	202	CYC	CAA-CBA-CGA-O2A
12	F3	202	CYC	CAA-CBA-CGA-O2A
12	Z3	202	CYC	CAA-CBA-CGA-O2A
12	L3	201	CYC	CAA-CBA-CGA-O2A
12	R3	202	CYC	CAA-CBA-CGA-O2A
12	T3	302	CYC	CAA-CBA-CGA-O2A
12	V3	202	CYC	CAA-CBA-CGA-O2A
12	S4	201	CYC	CAA-CBA-CGA-O2A
12	U4	202	CYC	CAA-CBA-CGA-O2A
12	W4	202	CYC	CAA-CBA-CGA-O2A
12	F4	201	CYC	CAA-CBA-CGA-O2A
12	H4	202	CYC	CAA-CBA-CGA-O2A
12	L4	201	CYC	CAA-CBA-CGA-O2A
12	Q4	201	CYC	CAA-CBA-CGA-O2A
12	J6	201	CYC	CAA-CBA-CGA-O2A
12	L6	202	CYC	CAA-CBA-CGA-O2A
12	D6	202	CYC	CAA-CBA-CGA-O2A
12	F6	202	CYC	CAA-CBA-CGA-O2A
12	H6	202	CYC	CAA-CBA-CGA-O2A
12	U8	202	CYC	CAA-CBA-CGA-O2A
12	W8	202	CYC	CAA-CBA-CGA-O2A
12	F8	201	CYC	CAA-CBA-CGA-O2A
12	H8	202	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
12	L8	201	CYC	CAA-CBA-CGA-O2A
12	Q8	201	CYC	CAA-CBA-CGA-O2A
12	S8	201	CYC	CAA-CBA-CGA-O2A
12	F1	202	CYC	CAA-CBA-CGA-O2A
12	L9	201	CYC	CAA-CBA-CGA-O2A
12	P9	202	CYC	CAA-CBA-CGA-O2A
12	B9	202	CYC	CAA-CBA-CGA-O2A
12	D9	202	CYC	CAA-CBA-CGA-O2A
12	F9	302	CYC	CAA-CBA-CGA-O2A
12	F9	303	CYC	CAA-CBA-CGA-O2A
12	H9	201	CYC	CAA-CBA-CGA-O2A
12	J9	201	CYC	CAA-CBA-CGA-O2A
12	R9	202	CYC	CAA-CBA-CGA-O2A
12	V9	202	CYC	CAA-CBA-CGA-O2A
12	X9	202	CYC	CAA-CBA-CGA-O2A
12	H1	202	CYC	CAA-CBA-CGA-O2A
12	J1	201	CYC	CAA-CBA-CGA-O2A
12	L1	201	CYC	CAA-CBA-CGA-O2A
12	T1	302	CYC	CAA-CBA-CGA-O2A
12	V1	202	CYC	CAA-CBA-CGA-O2A
12	Z1	201	CYC	CAA-CBA-CGA-O2A
12	D2	202	CYC	CAA-CBA-CGA-O2A
12	F2	202	CYC	CAA-CBA-CGA-O2A
12	CA	201	CYC	CAA-CBA-CGA-O1A
12	CA	201	CYC	CAD-CBD-CGD-O1D
12	QA	201	CYC	CAD-CBD-CGD-O1D
12	WA	201	CYC	CAA-CBA-CGA-O1A
12	WA	201	CYC	CAD-CBD-CGD-O1D
12	XA	202	CYC	CAA-CBA-CGA-O2A
12	I2	201	CYC	CAA-CBA-CGA-O1A
12	I2	201	CYC	CAD-CBD-CGD-O1D
12	B3	201	CYC	CAA-CBA-CGA-O2A
12	A4	201	CYC	CAD-CBD-CGD-O1D
12	W3	201	CYC	CAD-CBD-CGD-O1D
12	B1	201	CYC	CAA-CBA-CGA-O2A
12	N4	201	CYC	CAD-CBD-CGD-O1D
12	j5	1201	CYC	CAA-CBA-CGA-O2A
12	k5	1201	CYC	CAA-CBA-CGA-O2A
12	A6	201	CYC	CAA-CBA-CGA-O1A
12	A6	201	CYC	CAD-CBD-CGD-O1D
12	I6	201	CYC	CAD-CBD-CGD-O1D
12	A8	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
12	N8	201	CYC	CAD-CBD-CGD-O1D
12	C9	201	CYC	CAA-CBA-CGA-O1A
12	W9	201	CYC	CAA-CBA-CGA-O1A
12	W9	201	CYC	CAD-CBD-CGD-O1D
12	W1	201	CYC	CAD-CBD-CGD-O1D
12	A2	201	CYC	CAA-CBA-CGA-O1A
12	A2	201	CYC	CAD-CBD-CGD-O1D
12	C2	201	CYC	CAD-CBD-CGD-O1D
12	E2	201	CYC	CAD-CBD-CGD-O1D
12	EA	201	CYC	CAD-CBD-CGD-O1D
12	GA	201	CYC	CAD-CBD-CGD-O1D
12	IA	201	CYC	CAD-CBD-CGD-O1D
12	KA	201	CYC	CAD-CBD-CGD-O1D
12	G3	201	CYC	CAD-CBD-CGD-O1D
12	I3	201	CYC	CAD-CBD-CGD-O1D
12	C3	201	CYC	CAA-CBA-CGA-O1A
12	B4	201	CYC	CAA-CBA-CGA-O2A
12	D4	201	CYC	CAA-CBA-CGA-O2A
12	X3	202	CYC	CAA-CBA-CGA-O2A
12	V4	201	CYC	CAA-CBA-CGA-O1A
12	O4	202	CYC	CAA-CBA-CGA-O2A
12	C1	201	CYC	CAA-CBA-CGA-O1A
12	C6	201	CYC	CAD-CBD-CGD-O1D
12	E6	201	CYC	CAD-CBD-CGD-O1D
12	I6	201	CYC	CAA-CBA-CGA-O1A
12	B8	201	CYC	CAA-CBA-CGA-O2A
12	D8	201	CYC	CAA-CBA-CGA-O2A
12	V8	201	CYC	CAA-CBA-CGA-O1A
12	O8	202	CYC	CAA-CBA-CGA-O2A
12	C9	201	CYC	CAD-CBD-CGD-O1D
12	E9	201	CYC	CAD-CBD-CGD-O1D
12	G9	201	CYC	CAD-CBD-CGD-O1D
12	I9	201	CYC	CAD-CBD-CGD-O1D
12	K9	201	CYC	CAD-CBD-CGD-O1D
12	G1	201	CYC	CAD-CBD-CGD-O1D
12	I1	201	CYC	CAD-CBD-CGD-O1D
12	X1	202	CYC	CAA-CBA-CGA-O2A
12	B2	201	CYC	CAA-CBA-CGA-O2A
12	IA	201	CYC	CAA-CBA-CGA-O1A
12	OA	201	CYC	CAA-CBA-CGA-O1A
12	OA	201	CYC	CAD-CBD-CGD-O1D
12	SA	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
12	UA	201	CYC	CAA-CBA-CGA-O1A
12	YA	201	CYC	CAA-CBA-CGA-O1A
12	O1	201	CYC	CAD-CBD-CGD-O1D
12	P1	202	CYC	CAA-CBA-CGA-O2A
12	S1	201	CYC	CAD-CBD-CGD-O1D
12	A1	201	CYC	CAD-CBD-CGD-O1D
12	I3	201	CYC	CAA-CBA-CGA-O1A
12	G2	201	CYC	CAD-CBD-CGD-O1D
12	A3	201	CYC	CAD-CBD-CGD-O1D
12	C3	201	CYC	CAD-CBD-CGD-O1D
12	E3	201	CYC	CAD-CBD-CGD-O1D
12	C4	201	CYC	CAA-CBA-CGA-O1A
12	C4	201	CYC	CAD-CBD-CGD-O1D
12	O3	201	CYC	CAD-CBD-CGD-O1D
12	P3	202	CYC	CAA-CBA-CGA-O2A
12	S3	201	CYC	CAD-CBD-CGD-O1D
12	U3	201	CYC	CAD-CBD-CGD-O1D
12	W3	201	CYC	CAA-CBA-CGA-O1A
12	Y3	201	CYC	CAD-CBD-CGD-O1D
12	V4	201	CYC	CAD-CBD-CGD-O1D
12	E4	201	CYC	CAD-CBD-CGD-O1D
12	I4	201	CYC	CAD-CBD-CGD-O1D
12	K4	201	CYC	CAA-CBA-CGA-O1A
12	P4	201	CYC	CAA-CBA-CGA-O1A
12	P4	201	CYC	CAD-CBD-CGD-O1D
12	R4	201	CYC	CAD-CBD-CGD-O1D
12	X4	201	CYC	CAA-CBA-CGA-O1A
12	C1	201	CYC	CAD-CBD-CGD-O1D
12	B6	201	CYC	CAA-CBA-CGA-O2A
12	E1	201	CYC	CAD-CBD-CGD-O1D
12	C8	201	CYC	CAA-CBA-CGA-O1A
12	C8	201	CYC	CAD-CBD-CGD-O1D
12	E8	201	CYC	CAD-CBD-CGD-O1D
12	X8	201	CYC	CAA-CBA-CGA-O1A
12	I8	201	CYC	CAD-CBD-CGD-O1D
12	K8	201	CYC	CAA-CBA-CGA-O1A
12	P8	201	CYC	CAA-CBA-CGA-O1A
12	P8	201	CYC	CAD-CBD-CGD-O1D
12	R8	201	CYC	CAD-CBD-CGD-O1D
12	O9	201	CYC	CAA-CBA-CGA-O1A
12	O9	201	CYC	CAD-CBD-CGD-O1D
12	Q9	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
12	I9	201	CYC	CAA-CBA-CGA-O1A
12	S9	201	CYC	CAD-CBD-CGD-O1D
12	U9	201	CYC	CAA-CBA-CGA-O1A
12	Y9	201	CYC	CAA-CBA-CGA-O1A
12	I1	201	CYC	CAA-CBA-CGA-O1A
12	U1	201	CYC	CAD-CBD-CGD-O1D
12	W1	201	CYC	CAA-CBA-CGA-O1A
12	C2	201	CYC	CAA-CBA-CGA-O1A
12	L5	201	CYC	CAD-CBD-CGD-O2D
12	H5	201	CYC	CAD-CBD-CGD-O2D
12	j5	1201	CYC	CAA-CBA-CGA-O1A
12	k5	1201	CYC	CAA-CBA-CGA-O1A
12	b7	201	CYC	CAD-CBD-CGD-O2D
12	A	201	CYC	CAD-CBD-CGD-O2D
12	Z	201	CYC	CAD-CBD-CGD-O2D
12	AA	201	CYC	CAA-CBA-CGA-O1A
12	AA	201	CYC	CAD-CBD-CGD-O1D
12	GA	201	CYC	CAA-CBA-CGA-O1A
12	HA	201	CYC	CAA-CBA-CGA-O1A
12	KA	201	CYC	CAA-CBA-CGA-O1A
12	PA	202	CYC	CAA-CBA-CGA-O1A
12	SA	201	CYC	CAA-CBA-CGA-O1A
12	UA	201	CYC	CAD-CBD-CGD-O1D
12	YA	201	CYC	CAD-CBD-CGD-O1D
12	O1	201	CYC	CAA-CBA-CGA-O1A
12	Q1	201	CYC	CAA-CBA-CGA-O1A
12	Q1	201	CYC	CAD-CBD-CGD-O1D
12	S1	201	CYC	CAA-CBA-CGA-O1A
12	G3	201	CYC	CAA-CBA-CGA-O1A
12	K3	201	CYC	CAD-CBD-CGD-O1D
12	G2	201	CYC	CAA-CBA-CGA-O1A
12	K2	201	CYC	CAA-CBA-CGA-O1A
12	A3	201	CYC	CAA-CBA-CGA-O1A
12	E3	201	CYC	CAA-CBA-CGA-O1A
12	Z3	202	CYC	CAA-CBA-CGA-O1A
12	A4	201	CYC	CAA-CBA-CGA-O1A
12	O3	201	CYC	CAA-CBA-CGA-O1A
12	Q3	201	CYC	CAA-CBA-CGA-O1A
12	Q3	201	CYC	CAD-CBD-CGD-O1D
12	S3	201	CYC	CAA-CBA-CGA-O1A
12	U3	201	CYC	CAA-CBA-CGA-O1A
12	Y3	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
12	T4	201	CYC	CAD-CBD-CGD-O1D
12	G4	201	CYC	CAD-CBD-CGD-O1D
12	I4	201	CYC	CAA-CBA-CGA-O1A
12	N5	201	CYC	CAD-CBD-CGD-O2D
12	X4	201	CYC	CAD-CBD-CGD-O1D
12	D5	201	CYC	CAD-CBD-CGD-O2D
12	F5	201	CYC	CAD-CBD-CGD-O2D
12	J5	201	CYC	CAD-CBD-CGD-O2D
12	f5	201	CYC	CAD-CBD-CGD-O2D
12	P5	201	CYC	CAD-CBD-CGD-O2D
12	R5	201	CYC	CAD-CBD-CGD-O2D
12	T5	201	CYC	CAD-CBD-CGD-O2D
12	V5	201	CYC	CAD-CBD-CGD-O2D
12	X5	201	CYC	CAD-CBD-CGD-O2D
12	b5	201	CYC	CAD-CBD-CGD-O2D
12	j5	1202	CYC	CAD-CBD-CGD-O2D
12	k5	1202	CYC	CAD-CBD-CGD-O2D
12	k5	1203	CYC	CAD-CBD-CGD-O2D
12	k5	1204	CYC	CAD-CBD-CGD-O2D
12	C6	201	CYC	CAA-CBA-CGA-O1A
12	E6	201	CYC	CAA-CBA-CGA-O1A
12	G6	201	CYC	CAA-CBA-CGA-O1A
12	G6	201	CYC	CAD-CBD-CGD-O1D
12	P7	201	CYC	CAD-CBD-CGD-O2D
12	R7	201	CYC	CAD-CBD-CGD-O2D
12	B7	201	CYC	CAD-CBD-CGD-O2D
12	D7	201	CYC	CAD-CBD-CGD-O2D
12	F7	201	CYC	CAD-CBD-CGD-O2D
12	H7	201	CYC	CAD-CBD-CGD-O2D
12	J7	201	CYC	CAD-CBD-CGD-O2D
12	L7	201	CYC	CAD-CBD-CGD-O2D
12	N7	201	CYC	CAD-CBD-CGD-O2D
12	h7	201	CYC	CAD-CBD-CGD-O2D
12	j7	201	CYC	CAD-CBD-CGD-O2D
12	T7	201	CYC	CAD-CBD-CGD-O2D
12	X7	201	CYC	CAD-CBD-CGD-O2D
12	d7	201	CYC	CAD-CBD-CGD-O2D
12	f7	201	CYC	CAD-CBD-CGD-O2D
12	E1	201	CYC	CAA-CBA-CGA-O1A
12	A8	201	CYC	CAA-CBA-CGA-O1A
12	r7	201	CYC	CAD-CBD-CGD-O2D
12	T8	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
12	V8	201	CYC	CAD-CBD-CGD-O1D
12	X8	201	CYC	CAD-CBD-CGD-O1D
12	G8	201	CYC	CAD-CBD-CGD-O1D
12	I8	201	CYC	CAA-CBA-CGA-O1A
12	K8	201	CYC	CAD-CBD-CGD-O1D
12	N8	201	CYC	CAA-CBA-CGA-O1A
12	P9	202	CYC	CAA-CBA-CGA-O1A
12	Q9	201	CYC	CAA-CBA-CGA-O1A
12	A9	201	CYC	CAA-CBA-CGA-O1A
12	A9	201	CYC	CAD-CBD-CGD-O1D
12	G9	201	CYC	CAA-CBA-CGA-O1A
12	H9	201	CYC	CAA-CBA-CGA-O1A
12	K9	201	CYC	CAA-CBA-CGA-O1A
12	U9	201	CYC	CAD-CBD-CGD-O1D
12	Y9	201	CYC	CAD-CBD-CGD-O1D
12	G1	201	CYC	CAA-CBA-CGA-O1A
12	K1	201	CYC	CAD-CBD-CGD-O1D
12	U1	201	CYC	CAA-CBA-CGA-O1A
12	Y1	201	CYC	CAD-CBD-CGD-O1D
12	Z1	201	CYC	CAA-CBA-CGA-O1A
12	EA	201	CYC	CAA-CBA-CGA-O1A
12	QA	201	CYC	CAA-CBA-CGA-O1A
12	A1	201	CYC	CAA-CBA-CGA-O1A
12	K3	201	CYC	CAA-CBA-CGA-O1A
12	K2	201	CYC	CAD-CBD-CGD-O1D
12	B3	201	CYC	CAA-CBA-CGA-O1A
12	D3	201	CYC	CAA-CBA-CGA-O1A
12	B1	201	CYC	CAA-CBA-CGA-O1A
12	T4	201	CYC	CAA-CBA-CGA-O1A
12	E4	201	CYC	CAA-CBA-CGA-O1A
12	G4	201	CYC	CAA-CBA-CGA-O1A
12	K4	201	CYC	CAD-CBD-CGD-O1D
12	N4	201	CYC	CAA-CBA-CGA-O1A
12	O4	202	CYC	CAA-CBA-CGA-O1A
12	Q4	201	CYC	CAA-CBA-CGA-O1A
12	R4	201	CYC	CAA-CBA-CGA-O1A
12	Y4	201	CYC	CAA-CBA-CGA-O1A
12	B5	201	CYC	CAD-CBD-CGD-O2D
12	d5	201	CYC	CAD-CBD-CGD-O2D
12	Z5	201	CYC	CAD-CBD-CGD-O2D
12	K6	201	CYC	CAA-CBA-CGA-O1A
12	K6	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
12	D1	201	CYC	CAA-CBA-CGA-O1A
12	V7	201	CYC	CAD-CBD-CGD-O2D
12	E8	201	CYC	CAA-CBA-CGA-O1A
12	p7	201	CYC	CAD-CBD-CGD-O2D
12	v7	201	CYC	CAD-CBD-CGD-O2D
12	T8	201	CYC	CAA-CBA-CGA-O1A
12	G8	201	CYC	CAA-CBA-CGA-O1A
12	O8	202	CYC	CAA-CBA-CGA-O1A
12	R8	201	CYC	CAA-CBA-CGA-O1A
12	Y8	201	CYC	CAA-CBA-CGA-O1A
12	E9	201	CYC	CAA-CBA-CGA-O1A
12	F9	302	CYC	CAA-CBA-CGA-O1A
12	F9	303	CYC	CAA-CBA-CGA-O1A
12	S9	201	CYC	CAA-CBA-CGA-O1A
12	H1	202	CYC	CAA-CBA-CGA-O1A
12	K1	201	CYC	CAA-CBA-CGA-O1A
12	Y1	201	CYC	CAA-CBA-CGA-O1A
12	E2	201	CYC	CAA-CBA-CGA-O1A
12	BA	202	CYC	CAA-CBA-CGA-O1A
12	DA	202	CYC	CAA-CBA-CGA-O1A
12	JA	201	CYC	CAA-CBA-CGA-O1A
12	LA	201	CYC	CAA-CBA-CGA-O1A
12	RA	202	CYC	CAA-CBA-CGA-O1A
12	TA	302	CYC	CAA-CBA-CGA-O1A
12	VA	202	CYC	CAA-CBA-CGA-O1A
12	XA	202	CYC	CAA-CBA-CGA-O1A
12	ZA	201	CYC	CAA-CBA-CGA-O1A
12	P1	202	CYC	CAA-CBA-CGA-O1A
12	R1	202	CYC	CAA-CBA-CGA-O1A
12	H3	201	CYC	CAA-CBA-CGA-O1A
12	J3	201	CYC	CAA-CBA-CGA-O1A
12	H2	202	CYC	CAA-CBA-CGA-O1A
12	J2	201	CYC	CAA-CBA-CGA-O1A
12	F3	202	CYC	CAA-CBA-CGA-O1A
12	B4	201	CYC	CAA-CBA-CGA-O1A
12	D4	201	CYC	CAA-CBA-CGA-O1A
12	L3	201	CYC	CAA-CBA-CGA-O1A
12	P3	202	CYC	CAA-CBA-CGA-O1A
12	R3	202	CYC	CAA-CBA-CGA-O1A
12	T3	302	CYC	CAA-CBA-CGA-O1A
12	V3	202	CYC	CAA-CBA-CGA-O1A
12	X3	202	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
12	S4	201	CYC	CAA-CBA-CGA-O1A
12	W4	202	CYC	CAA-CBA-CGA-O1A
12	F4	201	CYC	CAA-CBA-CGA-O1A
12	H4	202	CYC	CAA-CBA-CGA-O1A
12	J4	202	CYC	CAA-CBA-CGA-O1A
12	M5	201	CYC	CAA-CBA-CGA-O1A
12	E5	201	CYC	CAA-CBA-CGA-O1A
12	c5	201	CYC	CAA-CBA-CGA-O1A
12	Q5	201	CYC	CAA-CBA-CGA-O1A
12	S5	201	CYC	CAA-CBA-CGA-O1A
12	W5	201	CYC	CAA-CBA-CGA-O1A
12	J6	201	CYC	CAA-CBA-CGA-O1A
12	L6	202	CYC	CAA-CBA-CGA-O1A
12	B6	201	CYC	CAA-CBA-CGA-O1A
12	D6	202	CYC	CAA-CBA-CGA-O1A
12	F6	202	CYC	CAA-CBA-CGA-O1A
12	H6	202	CYC	CAA-CBA-CGA-O1A
12	O7	201	CYC	CAA-CBA-CGA-O1A
12	i7	201	CYC	CAA-CBA-CGA-O1A
12	k7	201	CYC	CAA-CBA-CGA-O1A
12	W7	201	CYC	CAA-CBA-CGA-O1A
12	Y7	201	CYC	CAA-CBA-CGA-O1A
12	c7	201	CYC	CAA-CBA-CGA-O1A
12	e7	201	CYC	CAA-CBA-CGA-O1A
12	B8	201	CYC	CAA-CBA-CGA-O1A
12	D8	201	CYC	CAA-CBA-CGA-O1A
12	o7	201	CYC	CAA-CBA-CGA-O1A
12	u7	201	CYC	CAA-CBA-CGA-O1A
12	W8	202	CYC	CAA-CBA-CGA-O1A
12	F8	201	CYC	CAA-CBA-CGA-O1A
12	H8	202	CYC	CAA-CBA-CGA-O1A
12	J8	202	CYC	CAA-CBA-CGA-O1A
12	Q8	201	CYC	CAA-CBA-CGA-O1A
12	S8	201	CYC	CAA-CBA-CGA-O1A
12	F1	202	CYC	CAA-CBA-CGA-O1A
12	L9	201	CYC	CAA-CBA-CGA-O1A
12	B9	202	CYC	CAA-CBA-CGA-O1A
12	D9	202	CYC	CAA-CBA-CGA-O1A
12	J9	201	CYC	CAA-CBA-CGA-O1A
12	R9	202	CYC	CAA-CBA-CGA-O1A
12	T9	302	CYC	CAA-CBA-CGA-O1A
12	V9	202	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
12	X9	202	CYC	CAA-CBA-CGA-O1A
12	J1	201	CYC	CAA-CBA-CGA-O1A
12	L1	201	CYC	CAA-CBA-CGA-O1A
12	T1	302	CYC	CAA-CBA-CGA-O1A
12	V1	202	CYC	CAA-CBA-CGA-O1A
12	X1	202	CYC	CAA-CBA-CGA-O1A
12	B2	201	CYC	CAA-CBA-CGA-O1A
12	D2	202	CYC	CAA-CBA-CGA-O1A
12	F2	202	CYC	CAA-CBA-CGA-O1A
12	L2	202	CYC	CAA-CBA-CGA-O1A
12	U4	202	CYC	CAA-CBA-CGA-O1A
12	L4	201	CYC	CAA-CBA-CGA-O1A
12	K5	201	CYC	CAA-CBA-CGA-O1A
12	G5	201	CYC	CAA-CBA-CGA-O1A
12	Y5	201	CYC	CAA-CBA-CGA-O1A
12	A7	201	CYC	CAA-CBA-CGA-O1A
12	Q7	201	CYC	CAA-CBA-CGA-O1A
12	S7	201	CYC	CAA-CBA-CGA-O1A
12	C7	201	CYC	CAA-CBA-CGA-O1A
12	G7	201	CYC	CAA-CBA-CGA-O1A
12	I7	201	CYC	CAA-CBA-CGA-O1A
12	M7	201	CYC	CAA-CBA-CGA-O1A
12	g7	201	CYC	CAA-CBA-CGA-O1A
12	U7	201	CYC	CAA-CBA-CGA-O1A
12	a7	201	CYC	CAA-CBA-CGA-O1A
12	m7	201	CYC	CAA-CBA-CGA-O1A
12	q7	201	CYC	CAA-CBA-CGA-O1A
12	s7	201	CYC	CAA-CBA-CGA-O1A
12	U8	202	CYC	CAA-CBA-CGA-O1A
12	L8	201	CYC	CAA-CBA-CGA-O1A
12	Z9	201	CYC	CAA-CBA-CGA-O1A
12	O5	201	CYC	CAA-CBA-CGA-O1A
12	A5	201	CYC	CAA-CBA-CGA-O1A
12	C5	201	CYC	CAA-CBA-CGA-O1A
12	e5	201	CYC	CAA-CBA-CGA-O1A
12	U5	201	CYC	CAA-CBA-CGA-O1A
12	a5	201	CYC	CAA-CBA-CGA-O1A
12	I5	201	CYC	CAA-CBA-CGA-O1A
12	E7	201	CYC	CAA-CBA-CGA-O1A
12	K7	201	CYC	CAA-CBA-CGA-O1A
12	DA	202	CYC	CAD-CBD-CGD-O1D
12	JA	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
12	PA	202	CYC	CAD-CBD-CGD-O1D
12	RA	202	CYC	CAD-CBD-CGD-O1D
12	TA	302	CYC	CAD-CBD-CGD-O1D
12	VA	202	CYC	CAD-CBD-CGD-O1D
12	P1	202	CYC	CAD-CBD-CGD-O1D
12	J3	201	CYC	CAD-CBD-CGD-O1D
12	H2	202	CYC	CAD-CBD-CGD-O1D
12	J2	201	CYC	CAD-CBD-CGD-O1D
12	B3	201	CYC	CAD-CBD-CGD-O1D
12	Z3	202	CYC	CAD-CBD-CGD-O1D
12	L3	201	CYC	CAD-CBD-CGD-O1D
12	P3	202	CYC	CAD-CBD-CGD-O1D
12	T3	302	CYC	CAD-CBD-CGD-O1D
12	V3	202	CYC	CAD-CBD-CGD-O1D
12	X3	202	CYC	CAD-CBD-CGD-O1D
12	B1	201	CYC	CAD-CBD-CGD-O1D
12	S4	201	CYC	CAD-CBD-CGD-O1D
12	U4	202	CYC	CAD-CBD-CGD-O1D
12	W4	202	CYC	CAD-CBD-CGD-O1D
12	F4	201	CYC	CAD-CBD-CGD-O1D
12	H4	202	CYC	CAD-CBD-CGD-O1D
12	J4	202	CYC	CAD-CBD-CGD-O1D
12	L4	201	CYC	CAD-CBD-CGD-O1D
12	O4	202	CYC	CAD-CBD-CGD-O1D
12	J6	201	CYC	CAD-CBD-CGD-O1D
12	D6	202	CYC	CAD-CBD-CGD-O1D
12	F6	202	CYC	CAD-CBD-CGD-O1D
12	H6	202	CYC	CAD-CBD-CGD-O1D
12	B8	201	CYC	CAD-CBD-CGD-O1D
12	U8	202	CYC	CAD-CBD-CGD-O1D
12	W8	202	CYC	CAD-CBD-CGD-O1D
12	F8	201	CYC	CAD-CBD-CGD-O1D
12	H8	202	CYC	CAD-CBD-CGD-O1D
12	J8	202	CYC	CAD-CBD-CGD-O1D
12	L8	201	CYC	CAD-CBD-CGD-O1D
12	O8	202	CYC	CAD-CBD-CGD-O1D
12	Q8	201	CYC	CAD-CBD-CGD-O1D
12	S8	201	CYC	CAD-CBD-CGD-O1D
12	P9	202	CYC	CAD-CBD-CGD-O1D
12	D9	202	CYC	CAD-CBD-CGD-O1D
12	F9	303	CYC	CAD-CBD-CGD-O1D
12	J9	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
12	R9	202	CYC	CAD-CBD-CGD-O1D
12	T9	302	CYC	CAD-CBD-CGD-O1D
12	V9	202	CYC	CAD-CBD-CGD-O1D
12	Z9	201	CYC	CAD-CBD-CGD-O1D
12	J1	201	CYC	CAD-CBD-CGD-O1D
12	L1	201	CYC	CAD-CBD-CGD-O1D
12	T1	302	CYC	CAD-CBD-CGD-O1D
12	V1	202	CYC	CAD-CBD-CGD-O1D
12	X1	202	CYC	CAD-CBD-CGD-O1D
12	Z1	201	CYC	CAD-CBD-CGD-O1D
12	B2	201	CYC	CAD-CBD-CGD-O1D
12	D2	202	CYC	CAD-CBD-CGD-O1D
12	BA	202	CYC	CAD-CBD-CGD-O1D
12	HA	201	CYC	CAD-CBD-CGD-O1D
12	LA	201	CYC	CAD-CBD-CGD-O1D
12	XA	202	CYC	CAD-CBD-CGD-O1D
12	ZA	201	CYC	CAD-CBD-CGD-O1D
12	R1	202	CYC	CAD-CBD-CGD-O1D
12	H3	201	CYC	CAD-CBD-CGD-O1D
12	L2	202	CYC	CAD-CBD-CGD-O1D
12	D3	201	CYC	CAD-CBD-CGD-O1D
12	F3	202	CYC	CAD-CBD-CGD-O1D
12	B4	201	CYC	CAD-CBD-CGD-O1D
12	D4	201	CYC	CAD-CBD-CGD-O1D
12	R3	202	CYC	CAD-CBD-CGD-O1D
12	Q4	201	CYC	CAD-CBD-CGD-O1D
12	Y4	201	CYC	CAD-CBD-CGD-O1D
12	L6	202	CYC	CAD-CBD-CGD-O1D
12	B6	201	CYC	CAD-CBD-CGD-O1D
12	D1	201	CYC	CAD-CBD-CGD-O1D
12	D8	201	CYC	CAD-CBD-CGD-O1D
12	F1	202	CYC	CAD-CBD-CGD-O1D
12	L9	201	CYC	CAD-CBD-CGD-O1D
12	Y8	201	CYC	CAD-CBD-CGD-O1D
12	B9	202	CYC	CAD-CBD-CGD-O1D
12	F9	302	CYC	CAD-CBD-CGD-O1D
12	H9	201	CYC	CAD-CBD-CGD-O1D
12	X9	202	CYC	CAD-CBD-CGD-O1D
12	H1	202	CYC	CAD-CBD-CGD-O1D
12	F2	202	CYC	CAD-CBD-CGD-O1D
12	L5	201	CYC	CAA-CBA-CGA-O2A
12	L5	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
12	B5	201	CYC	CAD-CBD-CGD-O1D
12	D5	201	CYC	CAA-CBA-CGA-O2A
12	F5	201	CYC	CAA-CBA-CGA-O2A
12	H5	201	CYC	CAD-CBD-CGD-O1D
12	J5	201	CYC	CAD-CBD-CGD-O1D
12	P5	201	CYC	CAA-CBA-CGA-O2A
12	T5	201	CYC	CAD-CBD-CGD-O1D
12	V5	201	CYC	CAA-CBA-CGA-O2A
12	V5	201	CYC	CAD-CBD-CGD-O1D
12	Z5	201	CYC	CAD-CBD-CGD-O1D
12	j5	1202	CYC	CAA-CBA-CGA-O2A
12	j5	1202	CYC	CAD-CBD-CGD-O1D
12	k5	1202	CYC	CAD-CBD-CGD-O1D
12	k5	1204	CYC	CAA-CBA-CGA-O2A
12	k5	1204	CYC	CAD-CBD-CGD-O1D
12	P7	201	CYC	CAA-CBA-CGA-O2A
12	P7	201	CYC	CAD-CBD-CGD-O1D
12	B7	201	CYC	CAD-CBD-CGD-O1D
12	D7	201	CYC	CAA-CBA-CGA-O2A
12	H7	201	CYC	CAD-CBD-CGD-O1D
12	h7	201	CYC	CAD-CBD-CGD-O1D
12	T7	201	CYC	CAD-CBD-CGD-O1D
12	V7	201	CYC	CAA-CBA-CGA-O2A
12	X7	201	CYC	CAD-CBD-CGD-O1D
12	b7	201	CYC	CAD-CBD-CGD-O1D
12	f7	201	CYC	CAA-CBA-CGA-O2A
12	f7	201	CYC	CAD-CBD-CGD-O1D
12	p7	201	CYC	CAD-CBD-CGD-O1D
12	r7	201	CYC	CAD-CBD-CGD-O1D
12	v7	201	CYC	CAD-CBD-CGD-O1D
12	A	201	CYC	CAA-CBA-CGA-O2A
12	Z	201	CYC	CAA-CBA-CGA-O2A
12	N5	201	CYC	CAA-CBA-CGA-O2A
12	N5	201	CYC	CAD-CBD-CGD-O1D
12	B5	201	CYC	CAA-CBA-CGA-O2A
12	F5	201	CYC	CAD-CBD-CGD-O1D
12	H5	201	CYC	CAA-CBA-CGA-O2A
12	J5	201	CYC	CAA-CBA-CGA-O2A
12	d5	201	CYC	CAA-CBA-CGA-O2A
12	d5	201	CYC	CAD-CBD-CGD-O1D
12	f5	201	CYC	CAA-CBA-CGA-O2A
12	P5	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
12	R5	201	CYC	CAA-CBA-CGA-O2A
12	T5	201	CYC	CAA-CBA-CGA-O2A
12	X5	201	CYC	CAA-CBA-CGA-O2A
12	b5	201	CYC	CAA-CBA-CGA-O2A
12	k5	1202	CYC	CAA-CBA-CGA-O2A
12	k5	1203	CYC	CAA-CBA-CGA-O2A
12	R7	201	CYC	CAA-CBA-CGA-O2A
12	R7	201	CYC	CAD-CBD-CGD-O1D
12	B7	201	CYC	CAA-CBA-CGA-O2A
12	F7	201	CYC	CAA-CBA-CGA-O2A
12	F7	201	CYC	CAD-CBD-CGD-O1D
12	H7	201	CYC	CAA-CBA-CGA-O2A
12	J7	201	CYC	CAA-CBA-CGA-O2A
12	J7	201	CYC	CAD-CBD-CGD-O1D
12	L7	201	CYC	CAA-CBA-CGA-O2A
12	L7	201	CYC	CAD-CBD-CGD-O1D
12	N7	201	CYC	CAA-CBA-CGA-O2A
12	N7	201	CYC	CAD-CBD-CGD-O1D
12	h7	201	CYC	CAA-CBA-CGA-O2A
12	j7	201	CYC	CAA-CBA-CGA-O2A
12	T7	201	CYC	CAA-CBA-CGA-O2A
12	X7	201	CYC	CAA-CBA-CGA-O2A
12	b7	201	CYC	CAA-CBA-CGA-O2A
12	d7	201	CYC	CAA-CBA-CGA-O2A
12	r7	201	CYC	CAA-CBA-CGA-O2A
12	v7	201	CYC	CAA-CBA-CGA-O2A
12	DA	201	CYC	CAD-CBD-CGD-O2D
12	JA	202	CYC	CAD-CBD-CGD-O2D
12	RA	201	CYC	CAD-CBD-CGD-O2D
12	R1	201	CYC	CAD-CBD-CGD-O2D
12	D3	202	CYC	CAD-CBD-CGD-O2D
12	F3	201	CYC	CAD-CBD-CGD-O2D
12	R3	201	CYC	CAD-CBD-CGD-O2D
12	Z4	301	CYC	CAD-CBD-CGD-O2D
12	D5	201	CYC	CAD-CBD-CGD-O1D
12	Z5	201	CYC	CAA-CBA-CGA-O2A
12	b5	201	CYC	CAD-CBD-CGD-O1D
12	D6	201	CYC	CAD-CBD-CGD-O2D
12	D1	202	CYC	CAD-CBD-CGD-O2D
12	p7	201	CYC	CAA-CBA-CGA-O2A
12	F1	201	CYC	CAD-CBD-CGD-O2D
12	Z8	301	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
12	B9	201	CYC	CAD-CBD-CGD-O2D
12	D9	201	CYC	CAD-CBD-CGD-O2D
12	F9	301	CYC	CAD-CBD-CGD-O2D
12	J9	202	CYC	CAD-CBD-CGD-O2D
12	A	201	CYC	CAD-CBD-CGD-O1D
12	Z	201	CYC	CAD-CBD-CGD-O1D
12	f5	201	CYC	CAD-CBD-CGD-O1D
12	R5	201	CYC	CAD-CBD-CGD-O1D
12	X5	201	CYC	CAD-CBD-CGD-O1D
12	k5	1203	CYC	CAD-CBD-CGD-O1D
12	D7	201	CYC	CAD-CBD-CGD-O1D
12	j7	201	CYC	CAD-CBD-CGD-O1D
12	V7	201	CYC	CAD-CBD-CGD-O1D
12	d7	201	CYC	CAD-CBD-CGD-O1D
12	BA	201	CYC	CAD-CBD-CGD-O2D
12	FA	301	CYC	CAD-CBD-CGD-O2D
12	H2	201	CYC	CAD-CBD-CGD-O2D
12	B4	202	CYC	CAD-CBD-CGD-O2D
12	D4	202	CYC	CAD-CBD-CGD-O2D
12	L3	202	CYC	CAD-CBD-CGD-O2D
12	k5	1202	CYC	CAA-CBA-CGA-O1A
12	P7	201	CYC	CAA-CBA-CGA-O1A
12	h7	201	CYC	CAA-CBA-CGA-O1A
12	j7	201	CYC	CAA-CBA-CGA-O1A
12	T7	201	CYC	CAA-CBA-CGA-O1A
12	X7	201	CYC	CAA-CBA-CGA-O1A
12	b7	201	CYC	CAA-CBA-CGA-O1A
12	f7	201	CYC	CAA-CBA-CGA-O1A
12	D8	202	CYC	CAD-CBD-CGD-O2D
12	M8	301	CYC	CAD-CBD-CGD-O2D
12	R9	201	CYC	CAD-CBD-CGD-O2D
12	D2	201	CYC	CAD-CBD-CGD-O2D
12	B3	201	CYC	CAD-CBD-CGD-O2D
12	D3	201	CYC	CAD-CBD-CGD-O2D
12	T3	301	CYC	CAD-CBD-CGD-O2D
12	B1	201	CYC	CAD-CBD-CGD-O2D
12	D5	201	CYC	CAA-CBA-CGA-O1A
12	j5	1202	CYC	CAA-CBA-CGA-O1A
12	k5	1203	CYC	CAA-CBA-CGA-O1A
12	k5	1204	CYC	CAA-CBA-CGA-O1A
12	H6	201	CYC	CAD-CBD-CGD-O2D
12	B7	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
12	H7	201	CYC	CAA-CBA-CGA-O1A
12	N7	201	CYC	CAA-CBA-CGA-O1A
12	d7	201	CYC	CAA-CBA-CGA-O1A
12	aA	902	CYC	CAD-CBD-CGD-O2D
12	LA	202	CYC	CAD-CBD-CGD-O2D
12	PA	201	CYC	CAD-CBD-CGD-O2D
12	VA	201	CYC	CAD-CBD-CGD-O2D
12	XA	201	CYC	CAD-CBD-CGD-O2D
12	ZA	202	CYC	CAD-CBD-CGD-O2D
12	P1	201	CYC	CAD-CBD-CGD-O2D
12	H3	201	CYC	CAD-CBD-CGD-O2D
12	H3	202	CYC	CAD-CBD-CGD-O2D
12	J3	202	CYC	CAD-CBD-CGD-O2D
12	J2	202	CYC	CAD-CBD-CGD-O2D
12	N2	101	CYC	CAD-CBD-CGD-O2D
12	B3	202	CYC	CAD-CBD-CGD-O2D
12	Z3	201	CYC	CAD-CBD-CGD-O2D
12	P3	201	CYC	CAD-CBD-CGD-O2D
12	B1	202	CYC	CAD-CBD-CGD-O2D
12	S4	202	CYC	CAD-CBD-CGD-O2D
12	U4	202	CYC	CAD-CBD-CGD-O2D
12	W4	201	CYC	CAD-CBD-CGD-O2D
12	F4	202	CYC	CAD-CBD-CGD-O2D
12	J4	201	CYC	CAD-CBD-CGD-O2D
12	L4	202	CYC	CAD-CBD-CGD-O2D
12	M4	301	CYC	CAD-CBD-CGD-O2D
12	O4	201	CYC	CAD-CBD-CGD-O2D
12	d5	201	CYC	CAA-CBA-CGA-O1A
12	J6	202	CYC	CAD-CBD-CGD-O2D
12	N6	101	CYC	CAD-CBD-CGD-O2D
12	F6	201	CYC	CAD-CBD-CGD-O2D
12	B8	202	CYC	CAD-CBD-CGD-O2D
12	U8	202	CYC	CAD-CBD-CGD-O2D
12	W8	201	CYC	CAD-CBD-CGD-O2D
12	F8	202	CYC	CAD-CBD-CGD-O2D
12	J8	201	CYC	CAD-CBD-CGD-O2D
12	M8	302	CYC	CAD-CBD-CGD-O2D
12	O8	201	CYC	CAD-CBD-CGD-O2D
12	L9	202	CYC	CAD-CBD-CGD-O2D
12	P9	201	CYC	CAD-CBD-CGD-O2D
12	P9	202	CYC	CAD-CBD-CGD-O2D
12	F9	303	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
12	R9	202	CYC	CAD-CBD-CGD-O2D
12	V9	201	CYC	CAD-CBD-CGD-O2D
12	X9	201	CYC	CAD-CBD-CGD-O2D
12	Z9	202	CYC	CAD-CBD-CGD-O2D
12	a9	901	CYC	CAD-CBD-CGD-O2D
12	aA	901	CYC	CAD-CBD-CGD-O2D
12	H1	201	CYC	CAD-CBD-CGD-O2D
12	H1	202	CYC	CAD-CBD-CGD-O2D
12	T1	301	CYC	CAD-CBD-CGD-O2D
12	Z1	202	CYC	CAD-CBD-CGD-O2D
12	A	201	CYC	CAA-CBA-CGA-O1A
12	BA	202	CYC	CAD-CBD-CGD-O2D
12	HA	201	CYC	CAD-CBD-CGD-O2D
12	PA	202	CYC	CAD-CBD-CGD-O2D
12	RA	202	CYC	CAD-CBD-CGD-O2D
12	TA	301	CYC	CAD-CBD-CGD-O2D
12	P1	202	CYC	CAD-CBD-CGD-O2D
12	R1	202	CYC	CAD-CBD-CGD-O2D
12	L2	201	CYC	CAD-CBD-CGD-O2D
12	P3	202	CYC	CAD-CBD-CGD-O2D
12	R3	202	CYC	CAD-CBD-CGD-O2D
12	V3	201	CYC	CAD-CBD-CGD-O2D
12	V3	202	CYC	CAD-CBD-CGD-O2D
12	X3	201	CYC	CAD-CBD-CGD-O2D
12	F4	201	CYC	CAD-CBD-CGD-O2D
12	H4	201	CYC	CAD-CBD-CGD-O2D
12	L4	201	CYC	CAD-CBD-CGD-O2D
12	O4	202	CYC	CAD-CBD-CGD-O2D
12	N5	201	CYC	CAA-CBA-CGA-O1A
12	B5	201	CYC	CAA-CBA-CGA-O1A
12	J5	201	CYC	CAA-CBA-CGA-O1A
12	P5	201	CYC	CAA-CBA-CGA-O1A
12	R5	201	CYC	CAA-CBA-CGA-O1A
12	T5	201	CYC	CAA-CBA-CGA-O1A
12	V5	201	CYC	CAA-CBA-CGA-O1A
12	X5	201	CYC	CAA-CBA-CGA-O1A
12	Z5	201	CYC	CAA-CBA-CGA-O1A
12	L6	201	CYC	CAD-CBD-CGD-O2D
12	F6	202	CYC	CAD-CBD-CGD-O2D
12	R7	201	CYC	CAA-CBA-CGA-O1A
12	D7	201	CYC	CAA-CBA-CGA-O1A
12	J7	201	CYC	CAA-CBA-CGA-O1A

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Mol	Chain	Res	Type	Atoms
12	V7	201	CYC	CAA-CBA-CGA-O1A
12	B8	201	CYC	CAD-CBD-CGD-O2D
12	p7	201	CYC	CAA-CBA-CGA-O1A
12	r7	201	CYC	CAA-CBA-CGA-O1A
12	v7	201	CYC	CAA-CBA-CGA-O1A
12	F8	201	CYC	CAD-CBD-CGD-O2D
12	H8	201	CYC	CAD-CBD-CGD-O2D
12	L8	201	CYC	CAD-CBD-CGD-O2D
12	O8	202	CYC	CAD-CBD-CGD-O2D
12	B9	202	CYC	CAD-CBD-CGD-O2D
12	F9	302	CYC	CAD-CBD-CGD-O2D
12	H9	201	CYC	CAD-CBD-CGD-O2D
12	T9	301	CYC	CAD-CBD-CGD-O2D
12	V1	201	CYC	CAD-CBD-CGD-O2D
12	V1	202	CYC	CAD-CBD-CGD-O2D
12	X1	201	CYC	CAD-CBD-CGD-O2D
12	F2	201	CYC	CAD-CBD-CGD-O2D
12	Z	201	CYC	CAA-CBA-CGA-O1A
12	HA	202	CYC	CAD-CBD-CGD-O2D
12	VA	202	CYC	CAD-CBD-CGD-O2D
12	J2	201	CYC	CAD-CBD-CGD-O2D
12	L2	202	CYC	CAD-CBD-CGD-O2D
12	F3	202	CYC	CAD-CBD-CGD-O2D
12	B4	201	CYC	CAD-CBD-CGD-O2D
12	S4	201	CYC	CAD-CBD-CGD-O2D
12	U4	201	CYC	CAD-CBD-CGD-O2D
12	Q4	201	CYC	CAD-CBD-CGD-O2D
12	L5	201	CYC	CAA-CBA-CGA-O1A
12	F5	201	CYC	CAA-CBA-CGA-O1A
12	H5	201	CYC	CAA-CBA-CGA-O1A
12	f5	201	CYC	CAA-CBA-CGA-O1A
12	b5	201	CYC	CAA-CBA-CGA-O1A
12	J6	201	CYC	CAD-CBD-CGD-O2D
12	D1	201	CYC	CAD-CBD-CGD-O2D
12	F7	201	CYC	CAA-CBA-CGA-O1A
12	L7	201	CYC	CAA-CBA-CGA-O1A
12	U8	201	CYC	CAD-CBD-CGD-O2D
12	Q8	201	CYC	CAD-CBD-CGD-O2D
12	S8	201	CYC	CAD-CBD-CGD-O2D
12	F1	202	CYC	CAD-CBD-CGD-O2D
12	H9	202	CYC	CAD-CBD-CGD-O2D
12	V9	202	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
12	F2	202	CYC	CAD-CBD-CGD-O2D
12	J3	201	CYC	CAD-CBD-CGD-O2D
12	H2	202	CYC	CAD-CBD-CGD-O2D
12	D4	201	CYC	CAD-CBD-CGD-O2D
12	J1	201	CYC	CAD-CBD-CGD-O2D
12	H4	202	CYC	CAD-CBD-CGD-O2D
12	H8	202	CYC	CAD-CBD-CGD-O2D
12	D2	202	CYC	CAD-CBD-CGD-O2D
12	DA	202	CYC	CAD-CBD-CGD-O2D
12	ZA	201	CYC	CAD-CBD-CGD-O2D
12	X3	202	CYC	CAD-CBD-CGD-O2D
12	L6	202	CYC	CAD-CBD-CGD-O2D
12	D6	202	CYC	CAD-CBD-CGD-O2D
12	H6	202	CYC	CAD-CBD-CGD-O2D
12	D8	201	CYC	CAD-CBD-CGD-O2D
12	D9	202	CYC	CAD-CBD-CGD-O2D
12	X1	202	CYC	CAD-CBD-CGD-O2D
12	TA	302	CYC	CAD-CBD-CGD-O2D
12	XA	202	CYC	CAD-CBD-CGD-O2D
12	Z3	202	CYC	CAD-CBD-CGD-O2D
12	L3	201	CYC	CAD-CBD-CGD-O2D
12	T3	302	CYC	CAD-CBD-CGD-O2D
12	J4	202	CYC	CAD-CBD-CGD-O2D
12	W8	202	CYC	CAD-CBD-CGD-O2D
12	J8	202	CYC	CAD-CBD-CGD-O2D
12	T9	302	CYC	CAD-CBD-CGD-O2D
12	X9	202	CYC	CAD-CBD-CGD-O2D
12	Z9	201	CYC	CAD-CBD-CGD-O2D
12	L1	201	CYC	CAD-CBD-CGD-O2D
12	T1	302	CYC	CAD-CBD-CGD-O2D
12	Z1	201	CYC	CAD-CBD-CGD-O2D
12	DA	201	CYC	CAD-CBD-CGD-O1D
12	JA	202	CYC	CAD-CBD-CGD-O1D
12	X3	201	CYC	CAD-CBD-CGD-O1D
12	B6	201	CYC	CAD-CBD-CGD-O2D
12	D9	201	CYC	CAD-CBD-CGD-O1D
12	J9	202	CYC	CAD-CBD-CGD-O1D
12	FA	301	CYC	CAD-CBD-CGD-O1D
12	LA	202	CYC	CAD-CBD-CGD-O1D
12	PA	201	CYC	CAD-CBD-CGD-O1D
12	TA	301	CYC	CAD-CBD-CGD-O1D
12	VA	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
12	XA	201	CYC	CAD-CBD-CGD-O1D
12	H3	202	CYC	CAD-CBD-CGD-O1D
12	J3	202	CYC	CAD-CBD-CGD-O1D
12	H2	201	CYC	CAD-CBD-CGD-O1D
12	L2	201	CYC	CAD-CBD-CGD-O1D
12	N2	101	CYC	CAD-CBD-CGD-O1D
12	B3	202	CYC	CAD-CBD-CGD-O1D
12	D3	202	CYC	CAD-CBD-CGD-O1D
12	F3	201	CYC	CAD-CBD-CGD-O1D
12	Z3	201	CYC	CAD-CBD-CGD-O1D
12	V3	201	CYC	CAD-CBD-CGD-O1D
12	B1	202	CYC	CAD-CBD-CGD-O1D
12	S4	202	CYC	CAD-CBD-CGD-O1D
12	F4	202	CYC	CAD-CBD-CGD-O1D
12	M4	301	CYC	CAD-CBD-CGD-O1D
12	O4	201	CYC	CAD-CBD-CGD-O1D
12	L6	201	CYC	CAD-CBD-CGD-O1D
12	N6	101	CYC	CAD-CBD-CGD-O1D
12	F6	201	CYC	CAD-CBD-CGD-O1D
12	H6	201	CYC	CAD-CBD-CGD-O1D
12	D1	202	CYC	CAD-CBD-CGD-O1D
12	F8	202	CYC	CAD-CBD-CGD-O1D
12	M8	302	CYC	CAD-CBD-CGD-O1D
12	O8	201	CYC	CAD-CBD-CGD-O1D
12	F1	201	CYC	CAD-CBD-CGD-O1D
12	L9	202	CYC	CAD-CBD-CGD-O1D
12	P9	201	CYC	CAD-CBD-CGD-O1D
12	Z8	301	CYC	CAD-CBD-CGD-O1D
12	F9	301	CYC	CAD-CBD-CGD-O1D
12	T9	301	CYC	CAD-CBD-CGD-O1D
12	V9	201	CYC	CAD-CBD-CGD-O1D
12	X9	201	CYC	CAD-CBD-CGD-O1D
12	aA	901	CYC	CAD-CBD-CGD-O1D
12	H1	201	CYC	CAD-CBD-CGD-O1D
12	V1	201	CYC	CAD-CBD-CGD-O1D
12	X1	201	CYC	CAD-CBD-CGD-O1D
12	Z1	202	CYC	CAD-CBD-CGD-O1D
12	F2	201	CYC	CAD-CBD-CGD-O1D
12	P1	201	CYC	CAD-CBD-CGD-O1D
12	B4	202	CYC	CAD-CBD-CGD-O1D
12	P3	201	CYC	CAD-CBD-CGD-O1D
12	W4	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
12	W4	202	CYC	CAD-CBD-CGD-O2D
12	J4	201	CYC	CAD-CBD-CGD-O1D
12	Y4	201	CYC	CAD-CBD-CGD-O2D
12	j5	1201	CYC	CAD-CBD-CGD-O1D
12	k5	1201	CYC	CAD-CBD-CGD-O1D
12	W8	201	CYC	CAD-CBD-CGD-O1D
12	J8	201	CYC	CAD-CBD-CGD-O1D
12	a9	901	CYC	CAD-CBD-CGD-O1D
12	B2	201	CYC	CAD-CBD-CGD-O2D
12	JA	201	CYC	CAD-CBD-CGD-O2D
12	LA	201	CYC	CAD-CBD-CGD-O2D
12	RA	201	CYC	CAD-CBD-CGD-O1D
12	ZA	202	CYC	CAD-CBD-CGD-O1D
12	J2	202	CYC	CAD-CBD-CGD-O1D
12	D4	202	CYC	CAD-CBD-CGD-O1D
12	L3	202	CYC	CAD-CBD-CGD-O1D
12	T3	301	CYC	CAD-CBD-CGD-O1D
12	Z4	301	CYC	CAD-CBD-CGD-O1D
12	J6	202	CYC	CAD-CBD-CGD-O1D
12	D8	202	CYC	CAD-CBD-CGD-O1D
12	M8	301	CYC	CAD-CBD-CGD-O1D
12	L9	201	CYC	CAD-CBD-CGD-O2D
12	Y8	201	CYC	CAD-CBD-CGD-O2D
12	B9	201	CYC	CAD-CBD-CGD-O1D
12	J9	201	CYC	CAD-CBD-CGD-O2D
12	R9	201	CYC	CAD-CBD-CGD-O1D
12	Z9	202	CYC	CAD-CBD-CGD-O1D
12	T1	301	CYC	CAD-CBD-CGD-O1D
12	BA	201	CYC	CAD-CBD-CGD-O1D
12	HA	202	CYC	CAD-CBD-CGD-O1D
12	R1	201	CYC	CAD-CBD-CGD-O1D
12	R3	201	CYC	CAD-CBD-CGD-O1D
12	U4	201	CYC	CAD-CBD-CGD-O1D
12	H4	201	CYC	CAD-CBD-CGD-O1D
12	L4	202	CYC	CAD-CBD-CGD-O1D
12	j5	1201	CYC	CAD-CBD-CGD-O2D
12	k5	1201	CYC	CAD-CBD-CGD-O2D
12	D6	201	CYC	CAD-CBD-CGD-O1D
12	B8	202	CYC	CAD-CBD-CGD-O1D
12	U8	201	CYC	CAD-CBD-CGD-O1D
12	H8	201	CYC	CAD-CBD-CGD-O1D
12	H9	202	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
12	aA	902	CYC	CAD-CBD-CGD-O1D
12	D2	201	CYC	CAD-CBD-CGD-O1D
12	A5	201	CYC	C2A-CAA-CBA-CGA
12	G5	201	CYC	C2A-CAA-CBA-CGA
12	Q5	201	CYC	C2A-CAA-CBA-CGA
12	K7	201	CYC	C2A-CAA-CBA-CGA
12	O5	201	CYC	C2A-CAA-CBA-CGA
12	U5	201	CYC	C2A-CAA-CBA-CGA
12	W5	201	CYC	C2A-CAA-CBA-CGA
12	E7	201	CYC	C2A-CAA-CBA-CGA
12	I7	201	CYC	C2A-CAA-CBA-CGA
12	M7	201	CYC	C2A-CAA-CBA-CGA
12	K5	201	CYC	C2A-CAA-CBA-CGA
12	C5	201	CYC	C2A-CAA-CBA-CGA
12	E5	201	CYC	C2A-CAA-CBA-CGA
12	I5	201	CYC	C2A-CAA-CBA-CGA
12	c5	201	CYC	C2A-CAA-CBA-CGA
12	e5	201	CYC	C2A-CAA-CBA-CGA
12	Y5	201	CYC	C2A-CAA-CBA-CGA
12	Q7	201	CYC	C2A-CAA-CBA-CGA
12	C7	201	CYC	C2A-CAA-CBA-CGA
12	g7	201	CYC	C2A-CAA-CBA-CGA
12	i7	201	CYC	C2A-CAA-CBA-CGA
12	k7	201	CYC	C2A-CAA-CBA-CGA
12	W7	201	CYC	C2A-CAA-CBA-CGA
12	Y7	201	CYC	C2A-CAA-CBA-CGA
12	a7	201	CYC	C2A-CAA-CBA-CGA
12	e7	201	CYC	C2A-CAA-CBA-CGA
12	q7	201	CYC	C2A-CAA-CBA-CGA
12	u7	201	CYC	C2A-CAA-CBA-CGA
12	M5	201	CYC	C2A-CAA-CBA-CGA
12	S5	201	CYC	C2A-CAA-CBA-CGA
12	a5	201	CYC	C2A-CAA-CBA-CGA
12	A7	201	CYC	C2A-CAA-CBA-CGA
12	O7	201	CYC	C2A-CAA-CBA-CGA
12	S7	201	CYC	C2A-CAA-CBA-CGA
12	G7	201	CYC	C2A-CAA-CBA-CGA
12	U7	201	CYC	C2A-CAA-CBA-CGA
12	c7	201	CYC	C2A-CAA-CBA-CGA
12	m7	201	CYC	C2A-CAA-CBA-CGA
12	o7	201	CYC	C2A-CAA-CBA-CGA
12	s7	201	CYC	C2A-CAA-CBA-CGA

There are no ring outliers.

336 monomers are involved in 5213 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
12	W3	201	CYC	8	0
12	Y8	201	CYC	10	0
12	Q1	201	CYC	8	0
12	A5	201	CYC	69	0
12	U8	201	CYC	13	0
12	X9	202	CYC	8	0
12	J6	201	CYC	7	0
12	D1	202	CYC	9	0
12	S9	201	CYC	8	0
12	Y9	201	CYC	8	0
12	U7	201	CYC	3	0
12	Q4	201	CYC	6	0
12	O7	201	CYC	3	0
12	ZA	202	CYC	12	0
12	QA	201	CYC	49	0
12	H2	201	CYC	19	0
12	h7	201	CYC	15	0
12	Z1	201	CYC	9	0
12	WA	201	CYC	8	0
12	H6	201	CYC	19	0
12	p7	201	CYC	16	0
12	e5	201	CYC	8	0
12	L6	202	CYC	10	0
12	k5	1202	CYC	15	0
12	G3	201	CYC	8	0
12	k7	201	CYC	3	0
12	H9	201	CYC	6	0
12	r7	201	CYC	17	0
12	VA	201	CYC	41	0
12	k5	1204	CYC	40	0
12	J1	201	CYC	7	0
12	J9	202	CYC	39	0
12	G2	201	CYC	11	0
12	D6	202	CYC	6	0
12	N5	201	CYC	14	0
12	N6	101	CYC	13	0
12	L3	202	CYC	21	0
12	J4	201	CYC	12	0
12	O4	202	CYC	10	0
12	Z8	301	CYC	163	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
12	C4	201	CYC	8	0
12	G7	201	CYC	3	0
12	J3	201	CYC	6	0
12	JA	201	CYC	8	0
12	G9	201	CYC	8	0
12	V9	201	CYC	42	0
12	I6	201	CYC	8	0
12	G5	201	CYC	70	0
12	O9	201	CYC	8	0
12	M5	201	CYC	4	0
12	T9	302	CYC	6	0
12	V1	201	CYC	7	0
12	A9	201	CYC	8	0
12	E4	201	CYC	8	0
12	H4	202	CYC	6	0
12	F9	303	CYC	18	0
12	I1	201	CYC	8	0
12	T8	201	CYC	8	0
12	G1	201	CYC	8	0
12	K2	201	CYC	8	0
12	R3	201	CYC	25	0
12	TA	302	CYC	8	0
12	J6	202	CYC	10	0
12	E1	201	CYC	8	0
12	F3	202	CYC	7	0
12	B7	201	CYC	12	0
12	H3	202	CYC	14	0
12	L6	201	CYC	8	0
12	U4	202	CYC	6	0
12	D5	201	CYC	11	0
12	B3	201	CYC	8	0
12	G6	201	CYC	8	0
12	C8	201	CYC	8	0
12	f7	201	CYC	16	0
12	d5	201	CYC	16	0
12	a5	201	CYC	8	0
12	u7	201	CYC	19	0
12	L8	201	CYC	10	0
12	D8	202	CYC	21	0
12	a7	201	CYC	3	0
12	b5	201	CYC	7	0
12	P1	202	CYC	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
12	K5	201	CYC	28	0
12	D9	202	CYC	7	0
12	P1	201	CYC	18	0
12	H9	202	CYC	82	0
12	B2	201	CYC	7	0
12	D6	201	CYC	8	0
12	M7	201	CYC	3	0
12	H6	202	CYC	6	0
12	T3	301	CYC	23	0
12	Z	201	CYC	8	0
12	P4	201	CYC	8	0
12	BA	201	CYC	18	0
12	T1	301	CYC	23	0
12	j7	201	CYC	15	0
12	K9	201	CYC	8	0
12	S7	201	CYC	4	0
12	B5	201	CYC	26	0
12	g7	201	CYC	3	0
12	X4	201	CYC	8	0
12	J2	201	CYC	8	0
12	B1	202	CYC	68	0
12	R4	201	CYC	8	0
12	O5	201	CYC	4	0
12	M8	302	CYC	80	0
12	XA	201	CYC	7	0
12	K4	201	CYC	8	0
12	D9	201	CYC	14	0
12	V9	202	CYC	6	0
12	a9	901	CYC	106	0
12	B4	202	CYC	116	0
12	Q3	201	CYC	8	0
12	D1	201	CYC	6	0
12	T4	201	CYC	8	0
12	F2	202	CYC	5	0
12	F2	201	CYC	54	0
12	X5	201	CYC	16	0
12	RA	202	CYC	8	0
12	S1	201	CYC	8	0
12	I2	201	CYC	8	0
12	j5	1201	CYC	26	0
12	O8	201	CYC	18	0
12	Y4	201	CYC	8	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
12	R8	201	CYC	8	0
12	V1	202	CYC	6	0
12	L9	202	CYC	21	0
12	J5	201	CYC	12	0
12	B8	201	CYC	8	0
12	C9	201	CYC	8	0
12	C5	201	CYC	7	0
12	GA	201	CYC	8	0
12	W8	202	CYC	8	0
12	H1	201	CYC	56	0
12	J8	202	CYC	8	0
12	C7	201	CYC	4	0
12	J8	201	CYC	12	0
12	S5	201	CYC	3	0
12	TA	301	CYC	45	0
12	V8	201	CYC	8	0
12	B3	202	CYC	67	0
12	Z4	301	CYC	104	0
12	Y5	201	CYC	3	0
12	DA	202	CYC	6	0
12	N8	201	CYC	12	0
12	R9	202	CYC	6	0
12	o7	201	CYC	18	0
12	F7	201	CYC	17	0
12	E8	201	CYC	8	0
12	J3	202	CYC	45	0
12	Z3	201	CYC	26	0
12	F4	201	CYC	8	0
12	HA	202	CYC	82	0
12	O1	201	CYC	11	0
12	V7	201	CYC	10	0
12	I3	201	CYC	8	0
12	Y1	201	CYC	8	0
12	Z3	202	CYC	12	0
12	F4	202	CYC	9	0
12	A8	201	CYC	8	0
12	H3	201	CYC	6	0
12	X3	202	CYC	8	0
12	j5	1202	CYC	31	0
12	T3	302	CYC	5	0
12	A1	201	CYC	8	0
12	L1	201	CYC	9	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
12	m7	201	CYC	4	0
12	W7	201	CYC	14	0
12	ZA	201	CYC	9	0
12	C3	201	CYC	8	0
12	P9	202	CYC	9	0
12	O8	202	CYC	9	0
12	E7	201	CYC	13	0
12	AA	201	CYC	8	0
12	L5	201	CYC	14	0
12	q7	201	CYC	3	0
12	VA	202	CYC	19	0
12	R5	201	CYC	15	0
12	XA	202	CYC	6	0
12	K6	201	CYC	8	0
12	T5	201	CYC	19	0
12	X1	202	CYC	5	0
12	D7	201	CYC	32	0
12	K7	201	CYC	14	0
12	A3	201	CYC	8	0
12	G8	201	CYC	8	0
12	H8	201	CYC	28	0
12	U4	201	CYC	13	0
12	IA	201	CYC	8	0
12	JA	202	CYC	39	0
12	i7	201	CYC	13	0
12	H2	202	CYC	8	0
12	F8	202	CYC	8	0
12	W1	201	CYC	8	0
12	F8	201	CYC	6	0
12	N2	101	CYC	13	0
12	I8	201	CYC	8	0
12	D4	202	CYC	9	0
12	A4	201	CYC	8	0
12	c5	201	CYC	3	0
12	LA	201	CYC	12	0
12	SA	201	CYC	8	0
12	H5	201	CYC	21	0
12	W8	201	CYC	7	0
12	B6	201	CYC	7	0
12	s7	201	CYC	3	0
12	X1	201	CYC	18	0
12	L3	201	CYC	9	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
12	DA	201	CYC	14	0
12	f5	201	CYC	6	0
12	D3	202	CYC	9	0
12	X8	201	CYC	8	0
12	K1	201	CYC	8	0
12	B9	201	CYC	20	0
12	F5	201	CYC	17	0
12	E6	201	CYC	8	0
12	c7	201	CYC	10	0
12	U5	201	CYC	3	0
12	R7	201	CYC	9	0
12	Q5	201	CYC	15	0
12	P9	201	CYC	11	0
12	F9	301	CYC	20	0
12	R3	202	CYC	7	0
12	T9	301	CYC	46	0
12	W4	202	CYC	7	0
12	W4	201	CYC	7	0
12	H4	201	CYC	29	0
12	F1	202	CYC	6	0
12	F6	201	CYC	63	0
12	X7	201	CYC	8	0
12	F1	201	CYC	25	0
12	L4	201	CYC	9	0
12	U8	202	CYC	8	0
12	Z9	201	CYC	9	0
12	YA	201	CYC	8	0
12	PA	202	CYC	7	0
12	J9	201	CYC	9	0
12	U9	201	CYC	8	0
12	D4	201	CYC	6	0
12	RA	201	CYC	19	0
12	K3	201	CYC	8	0
12	L2	202	CYC	10	0
12	U1	201	CYC	8	0
12	V5	201	CYC	18	0
12	aA	902	CYC	20	0
12	aA	901	CYC	52	0
12	S4	201	CYC	6	0
12	D3	201	CYC	6	0
12	E9	201	CYC	7	0
12	Z9	202	CYC	11	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
12	PA	201	CYC	12	0
12	F3	201	CYC	24	0
12	BA	202	CYC	8	0
12	KA	201	CYC	8	0
12	P3	202	CYC	8	0
12	C1	201	CYC	8	0
12	P7	201	CYC	13	0
12	I7	201	CYC	3	0
12	X9	201	CYC	7	0
12	P3	201	CYC	17	0
12	H8	202	CYC	6	0
12	D2	202	CYC	7	0
12	N7	201	CYC	10	0
12	Z1	202	CYC	28	0
12	K8	201	CYC	8	0
12	J2	202	CYC	10	0
12	Q9	201	CYC	8	0
12	k5	1203	CYC	34	0
12	LA	202	CYC	21	0
12	W5	201	CYC	14	0
12	V3	202	CYC	6	0
12	E5	201	CYC	27	0
12	J4	202	CYC	6	0
12	V3	201	CYC	7	0
12	B8	202	CYC	84	0
12	HA	201	CYC	6	0
12	P5	201	CYC	18	0
12	D8	201	CYC	6	0
12	Z5	201	CYC	15	0
12	UA	201	CYC	9	0
12	FA	301	CYC	19	0
12	E3	201	CYC	8	0
12	X3	201	CYC	18	0
12	U3	201	CYC	8	0
12	Q7	201	CYC	14	0
12	Q8	201	CYC	6	0
12	R1	202	CYC	7	0
12	EA	201	CYC	7	0
12	J7	201	CYC	23	0
12	T1	302	CYC	5	0
12	C6	201	CYC	8	0
12	F6	202	CYC	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
12	S8	201	CYC	6	0
12	L4	202	CYC	21	0
12	A6	201	CYC	8	0
12	A	201	CYC	9	0
12	F9	302	CYC	35	0
12	B1	201	CYC	7	0
12	I4	201	CYC	8	0
12	S4	202	CYC	33	0
12	E2	201	CYC	7	0
12	T7	201	CYC	16	0
12	H7	201	CYC	11	0
12	B4	201	CYC	8	0
12	b7	201	CYC	18	0
12	V4	201	CYC	8	0
12	M8	301	CYC	101	0
12	O4	201	CYC	22	0
12	OA	201	CYC	8	0
12	CA	201	CYC	8	0
12	C2	201	CYC	8	0
12	R9	201	CYC	19	0
12	A7	201	CYC	3	0
12	Y7	201	CYC	3	0
12	d7	201	CYC	19	0
12	P8	201	CYC	8	0
12	L2	201	CYC	8	0
12	G4	201	CYC	8	0
12	D2	201	CYC	8	0
12	L9	201	CYC	14	0
12	H1	202	CYC	6	0
12	W9	201	CYC	8	0
12	A2	201	CYC	8	0
12	k5	1201	CYC	30	0
12	M4	301	CYC	76	0
12	L7	201	CYC	13	0
12	N4	201	CYC	8	0
12	v7	201	CYC	22	0
12	B9	202	CYC	7	0
12	R1	201	CYC	26	0
12	I5	201	CYC	8	0
12	Y3	201	CYC	8	0
12	O3	201	CYC	8	0
12	I9	201	CYC	8	0

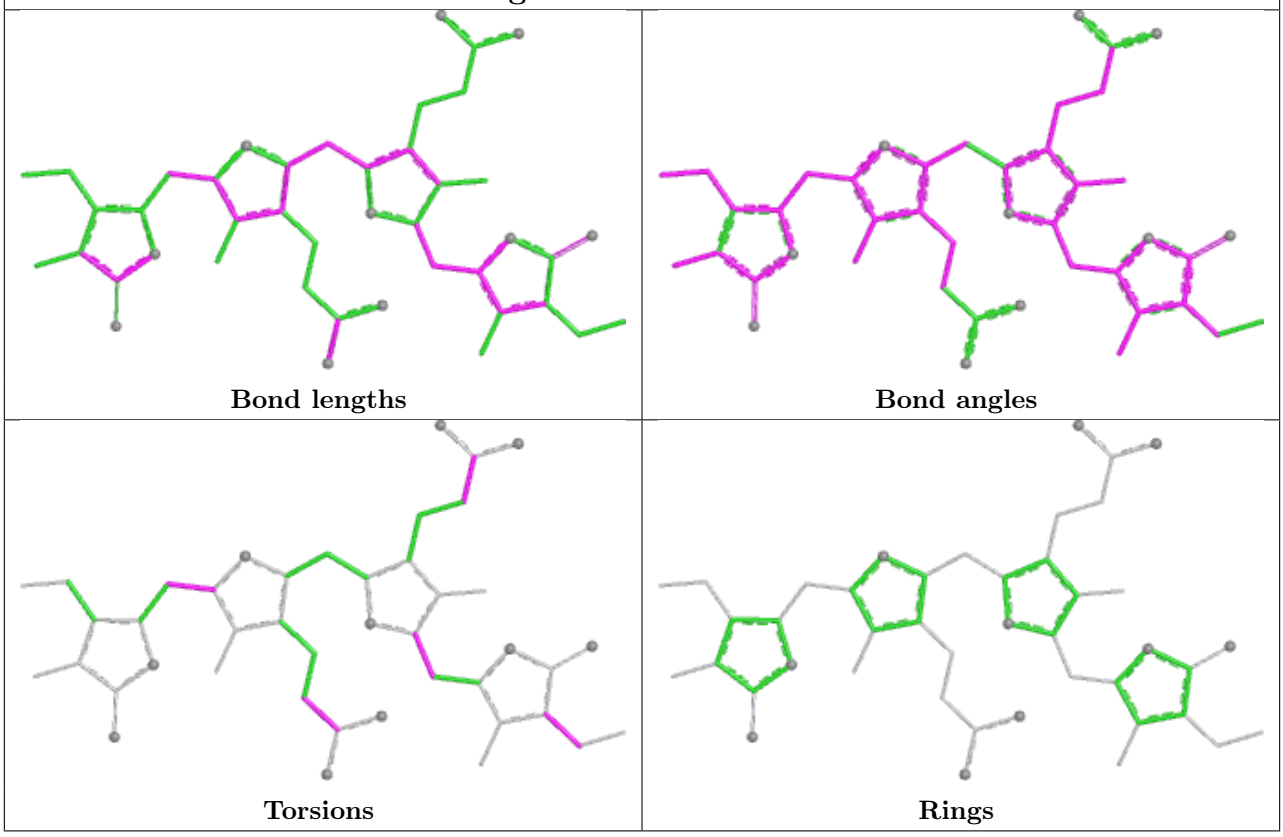
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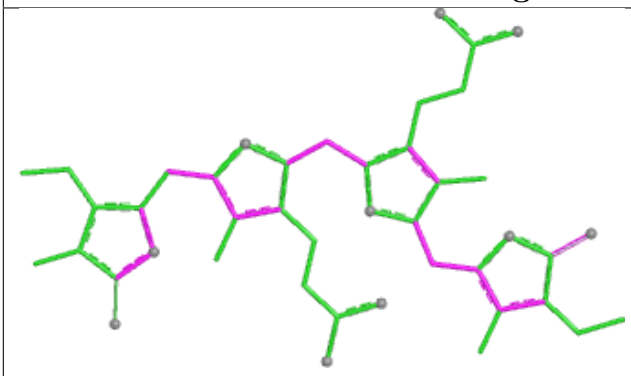
Mol	Chain	Res	Type	Clashes	Symm-Clashes
12	S3	201	CYC	9	0
12	e7	201	CYC	3	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

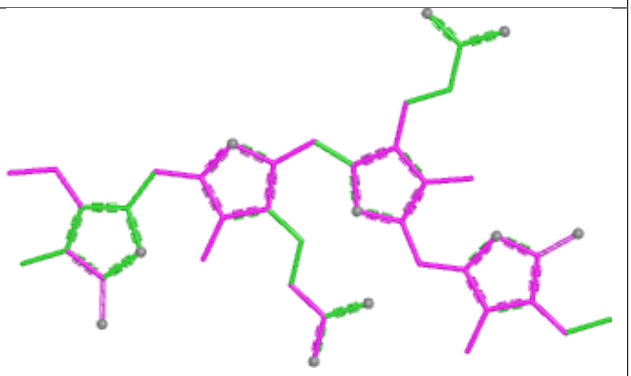
Ligand CYC W3 201



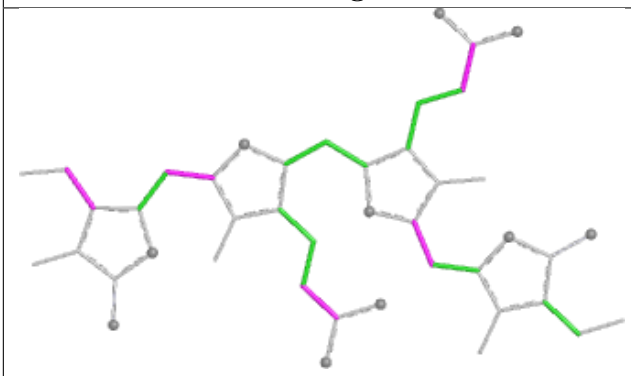
Ligand CYC Y8 201



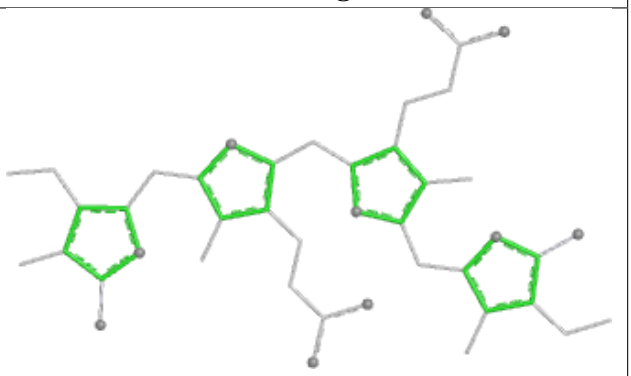
Bond lengths



Bond angles

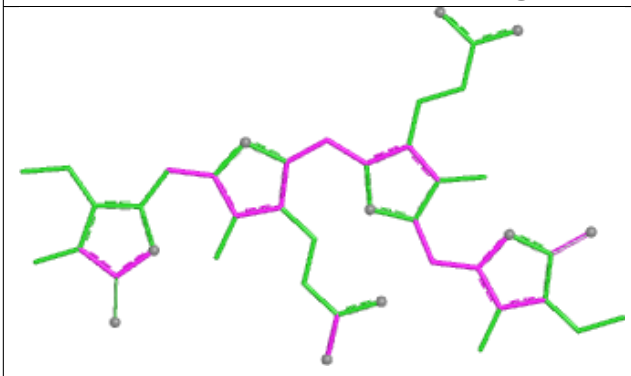


Torsions

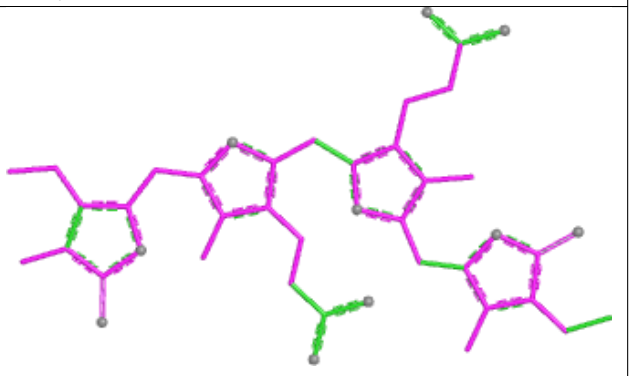


Rings

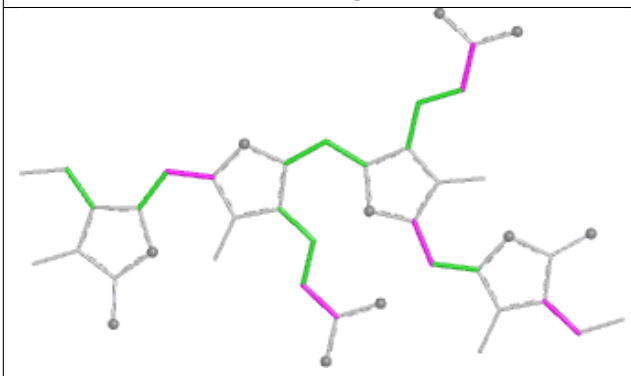
Ligand CYC Q1 201



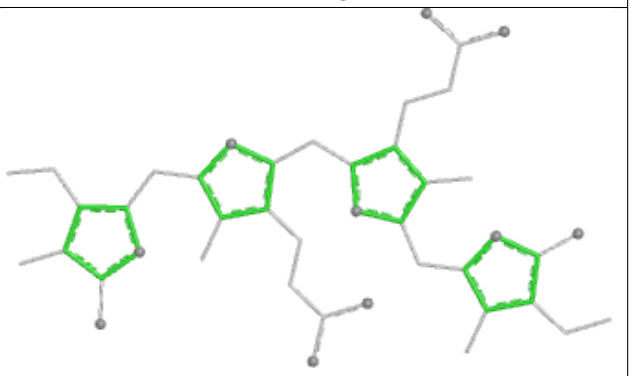
Bond lengths



Bond angles

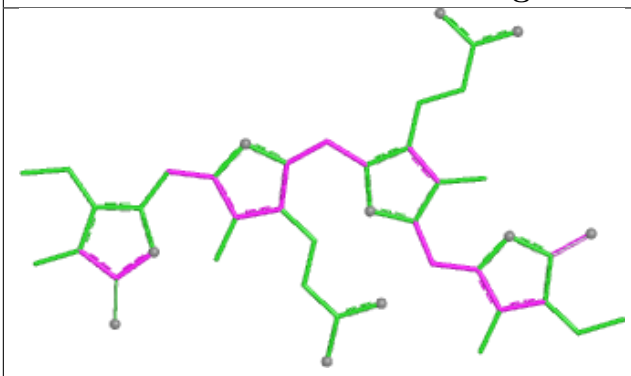


Torsions

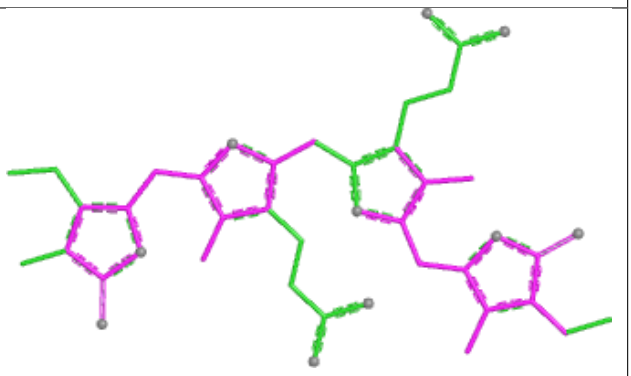


Rings

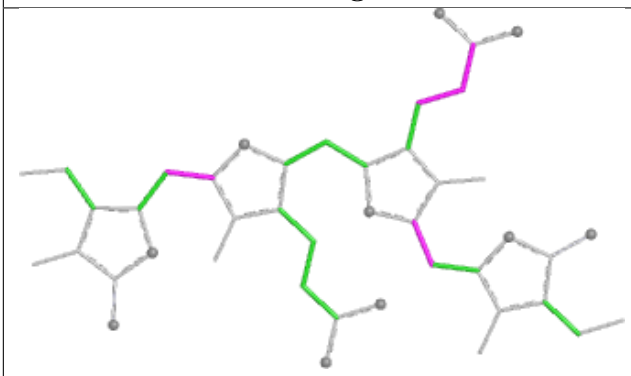
Ligand CYC A5 201



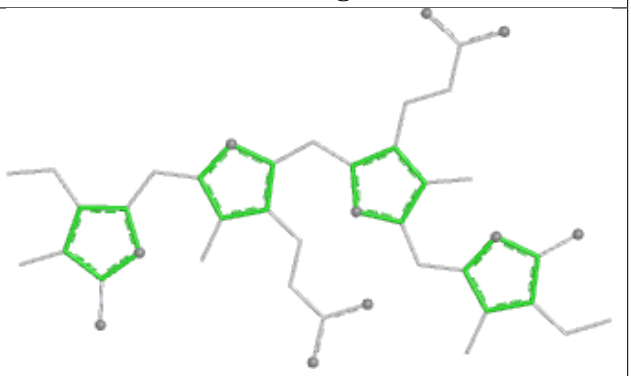
Bond lengths



Bond angles

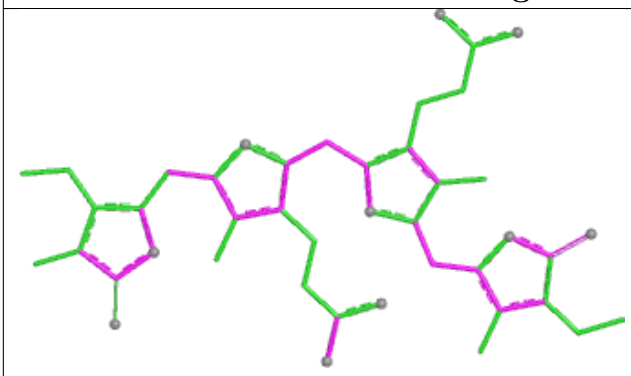


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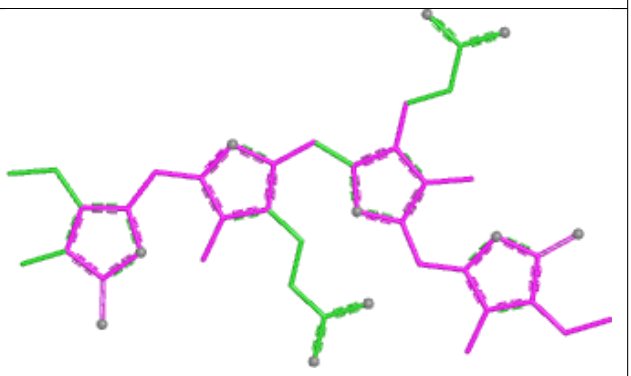


Rings

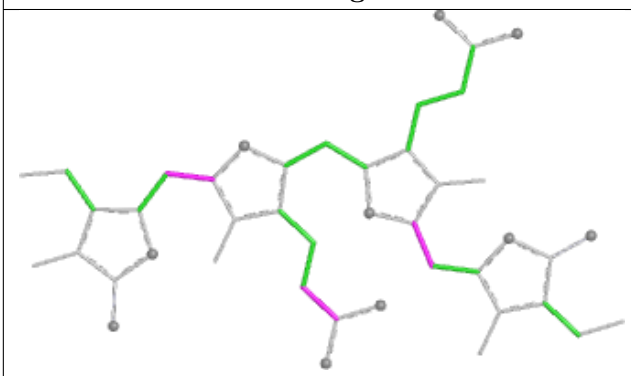
Ligand CYC U8 201



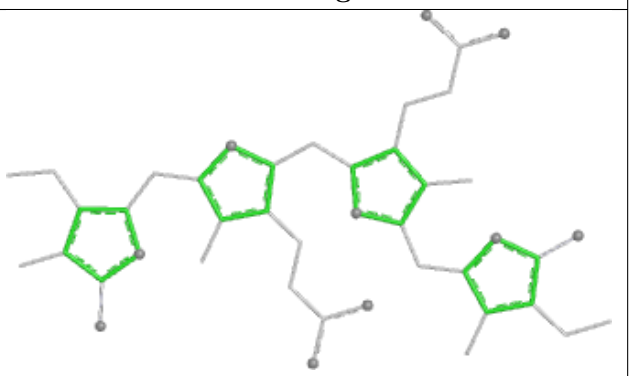
Bond lengths



Bond angles

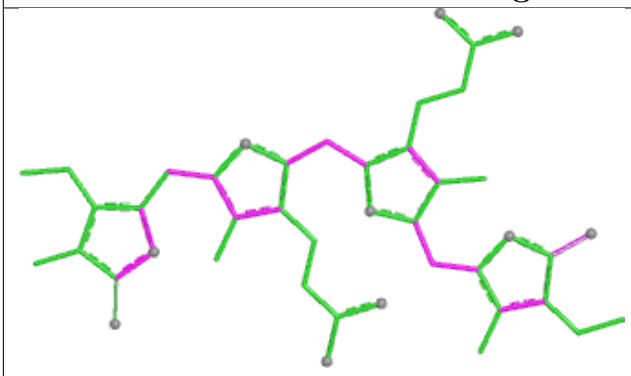


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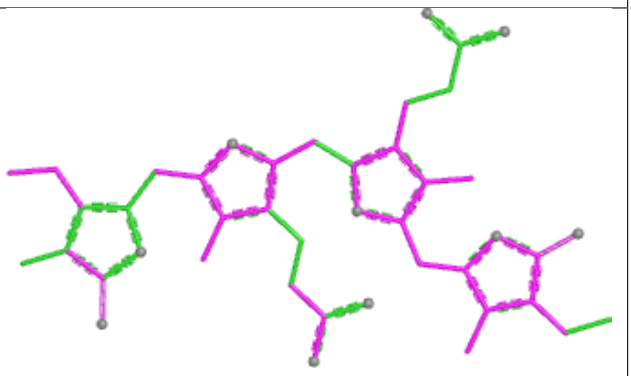


Rings

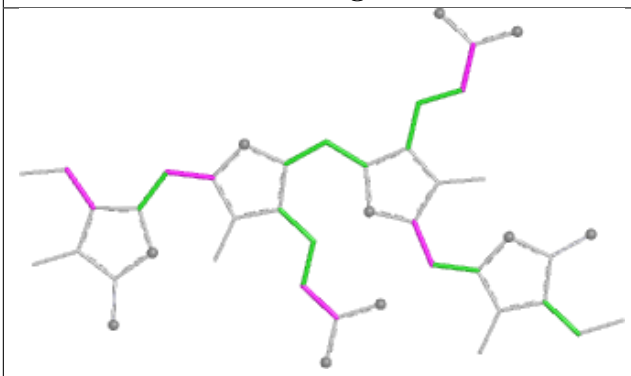
Ligand CYC X9 202



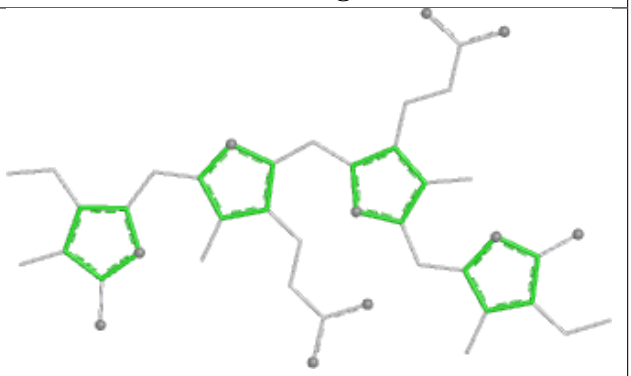
Bond lengths



Bond angles

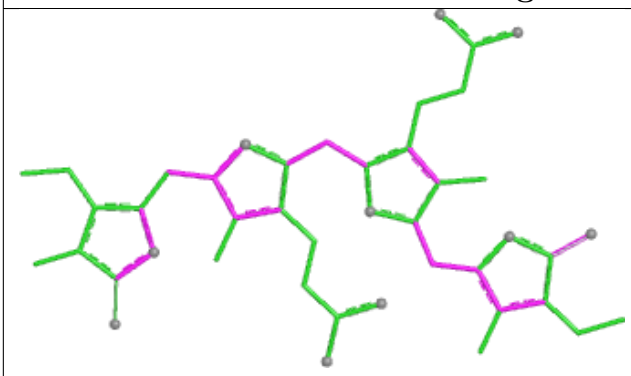


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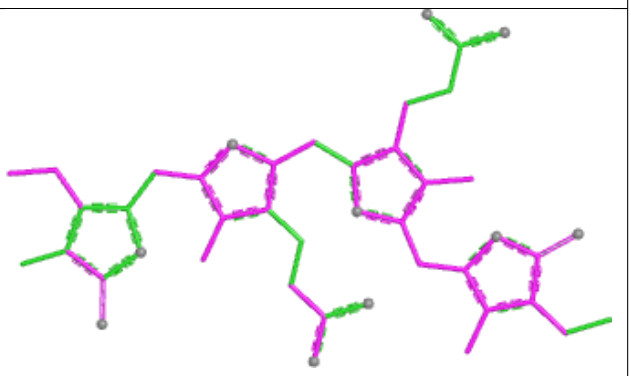


Rings

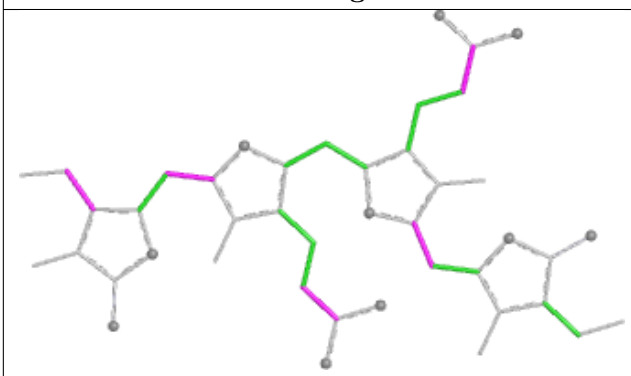
Ligand CYC J6 201



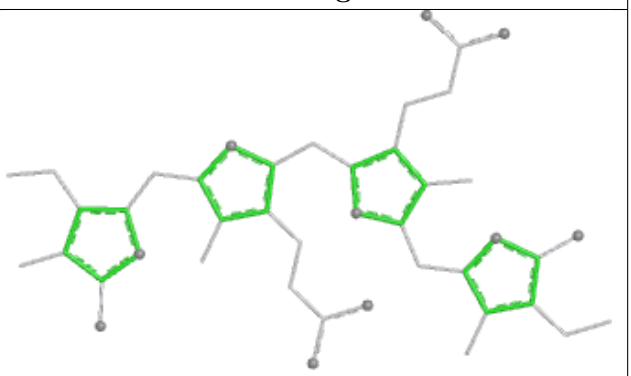
Bond lengths



Bond angles

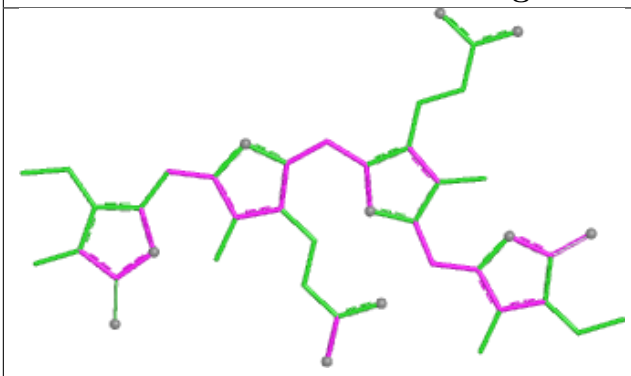


Torsions

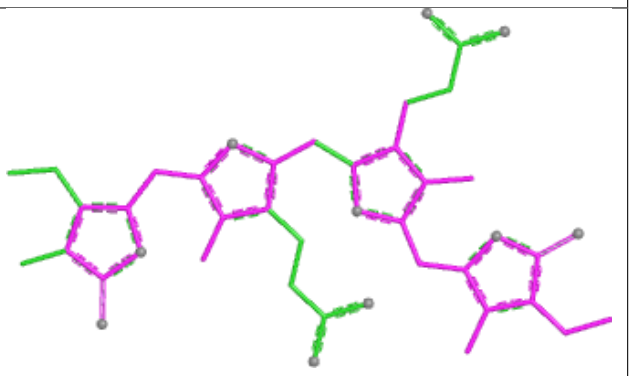


Rings

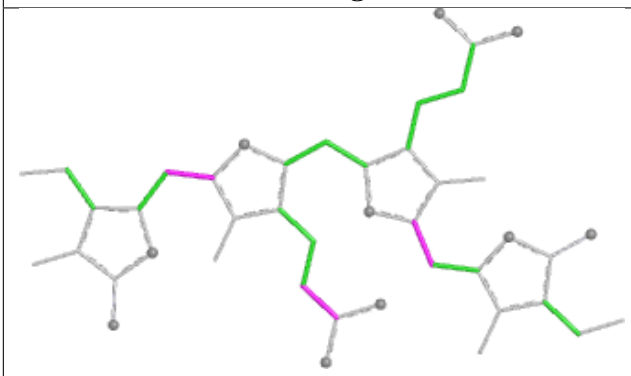
Ligand CYC D1 202



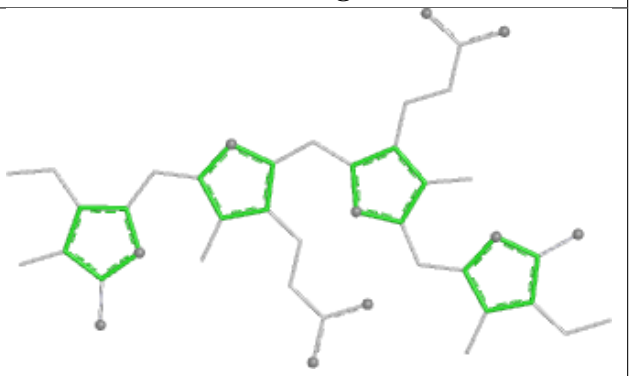
Bond lengths



Bond angles

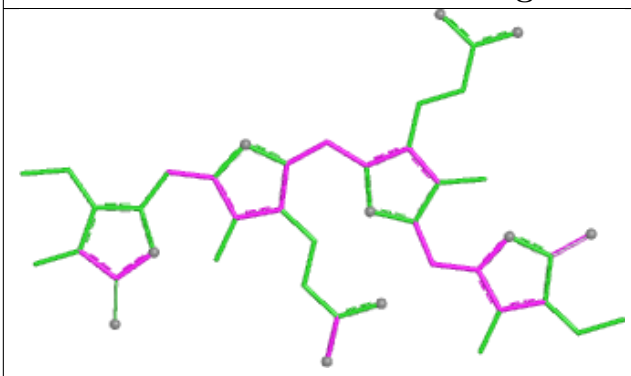


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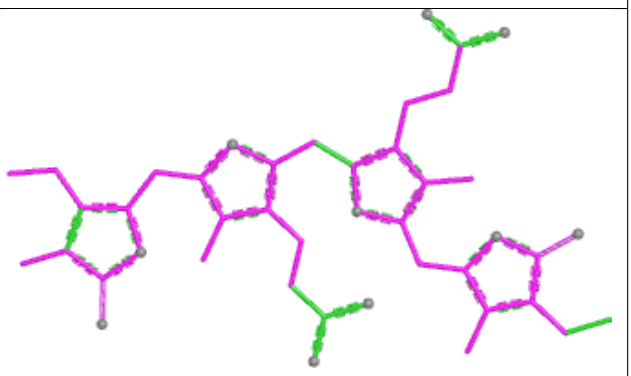


Rings

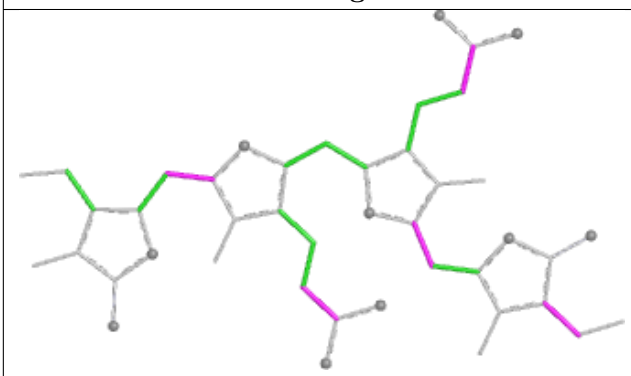
Ligand CYC S9 201



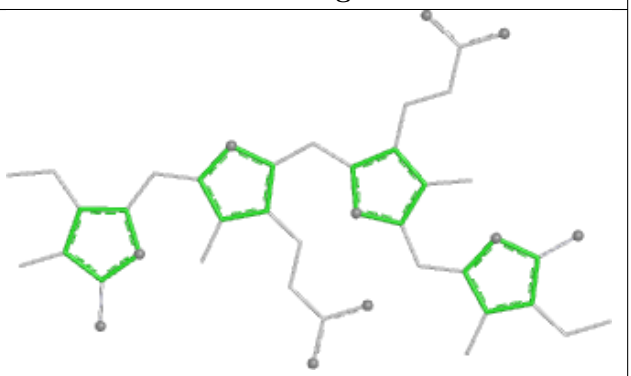
Bond lengths



Bond angles

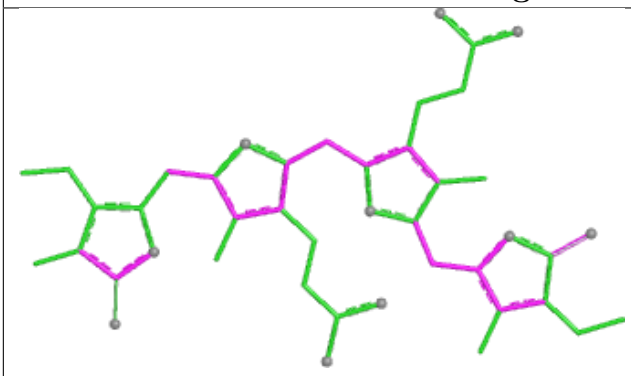


Torsions

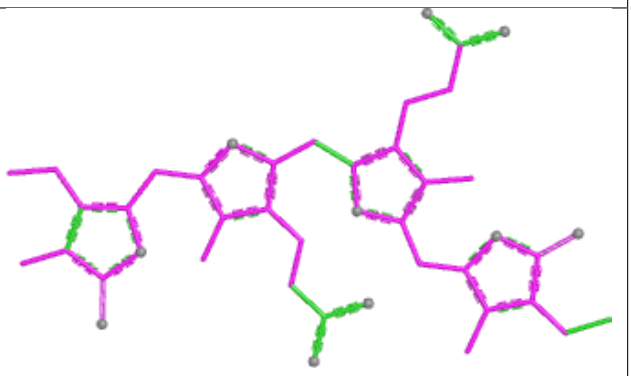


Rings

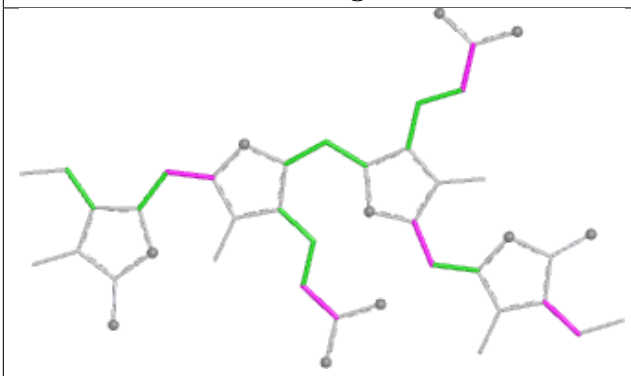
Ligand CYC Y9 201



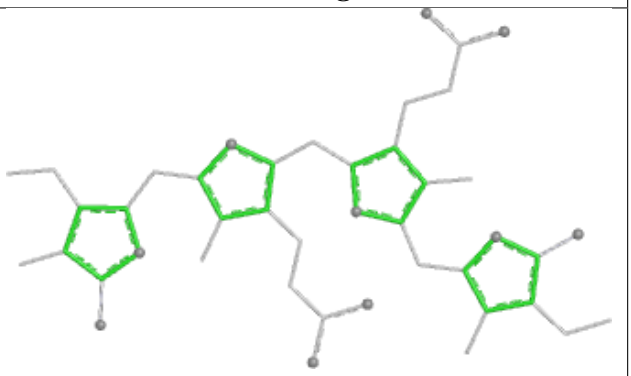
Bond lengths



Bond angles

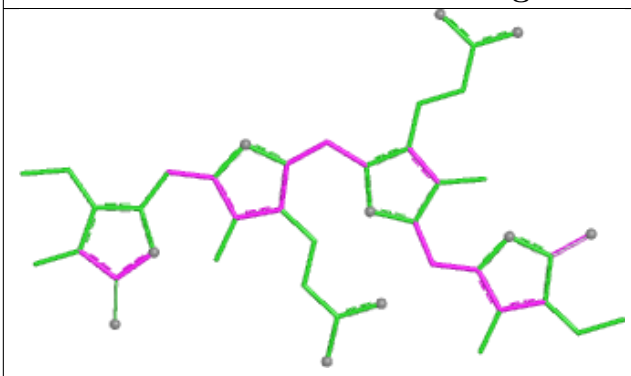


Torsions

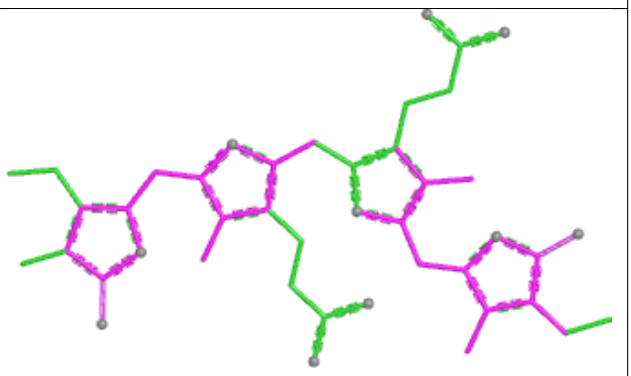


Rings

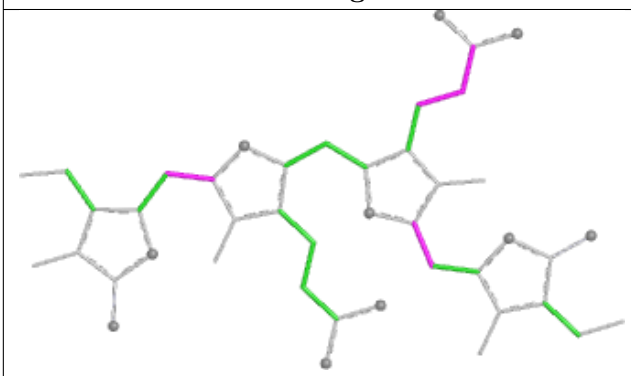
Ligand CYC U7 201



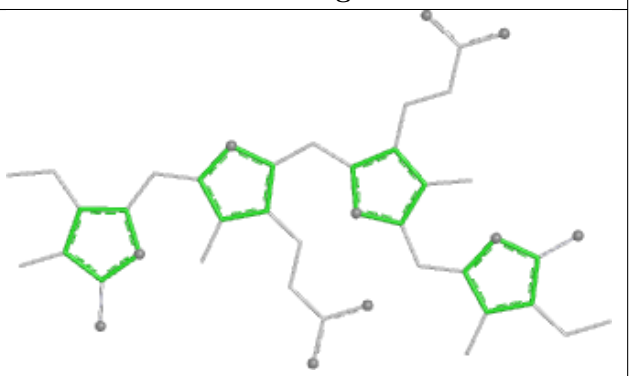
Bond lengths



Bond angles

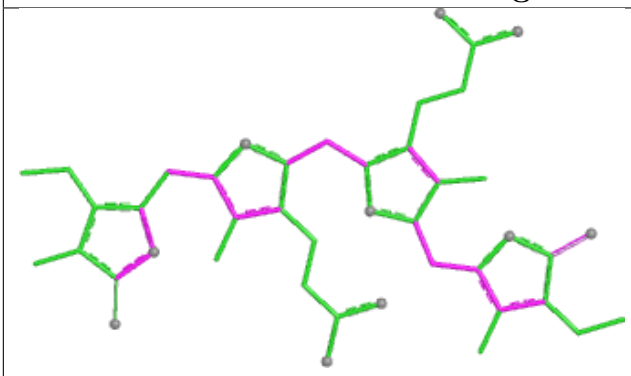


Torsions

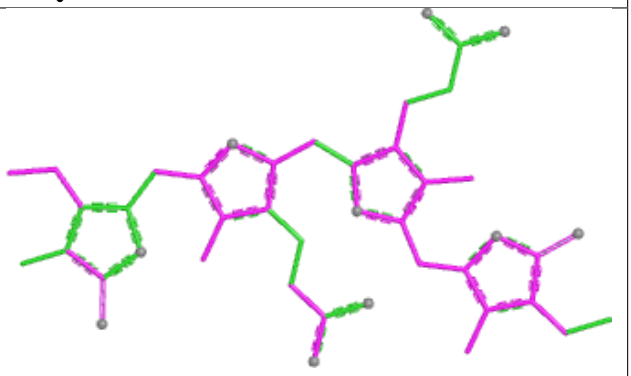


Rings

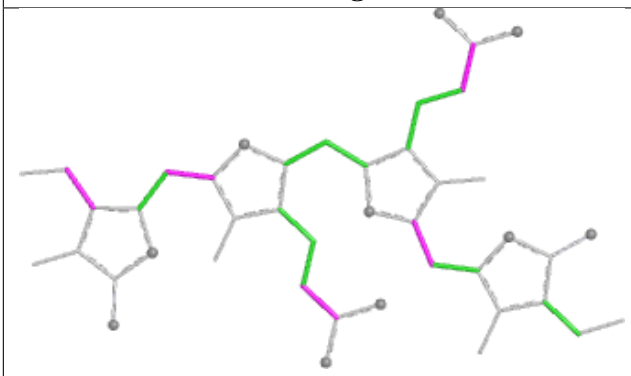
Ligand CYC Q4 201



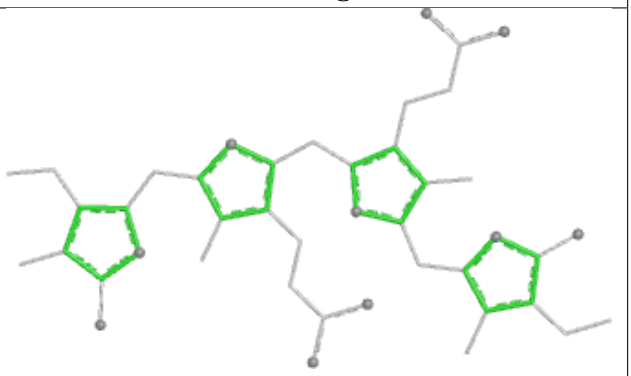
Bond lengths



Bond angles

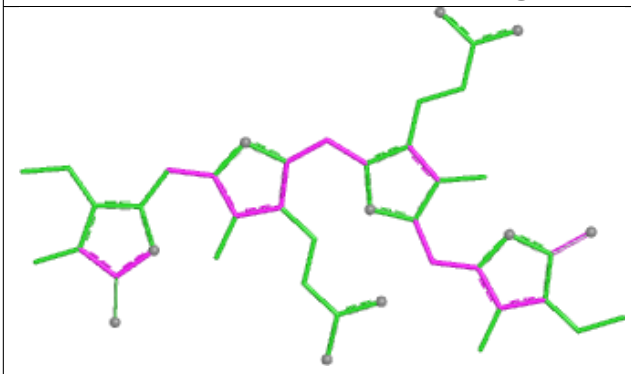


Torsions

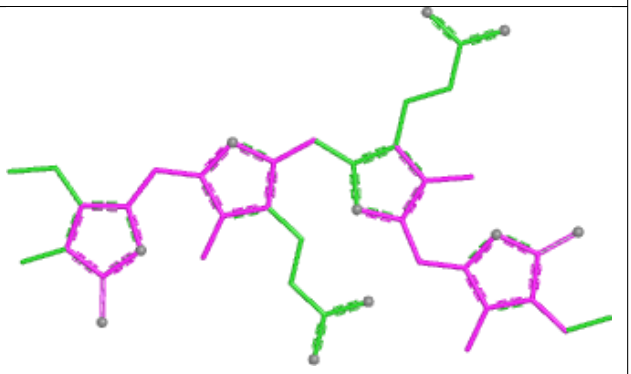


Rings

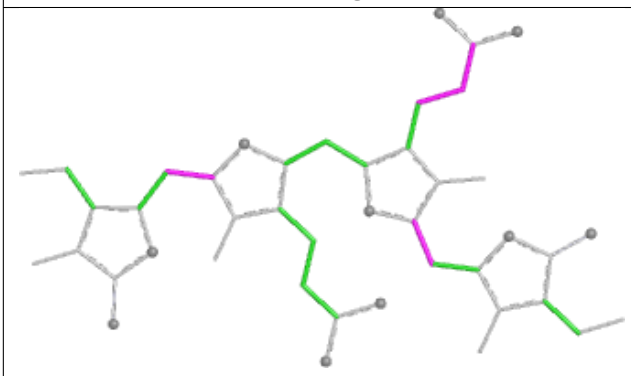
Ligand CYC O7 201



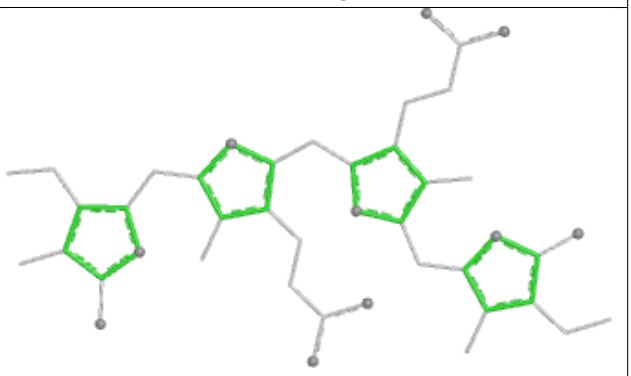
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Bond angles

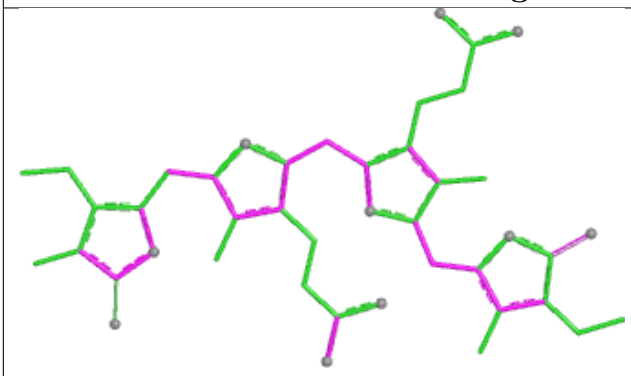


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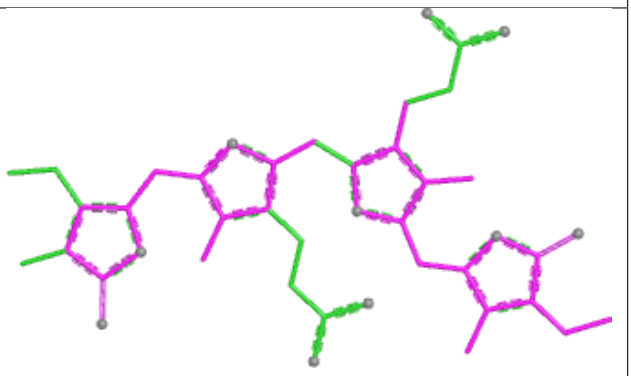


Rings

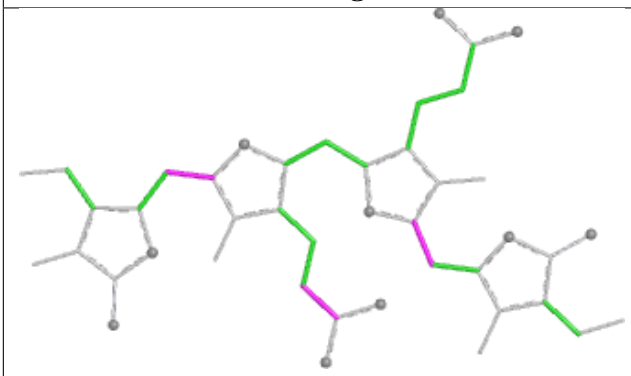
Ligand CYC ZA 202



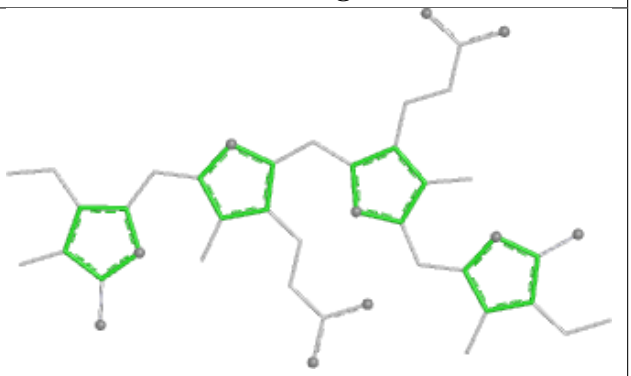
Bond lengths



Bond angles

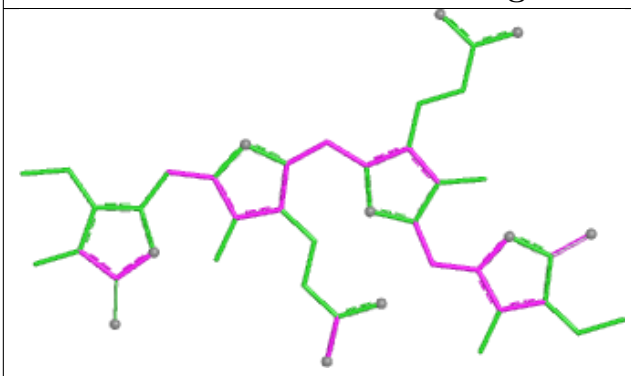


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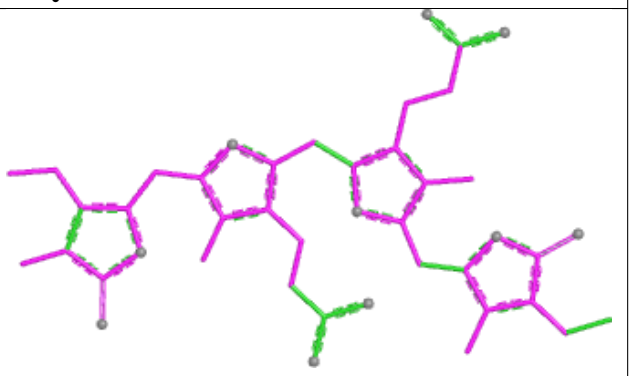


Rings

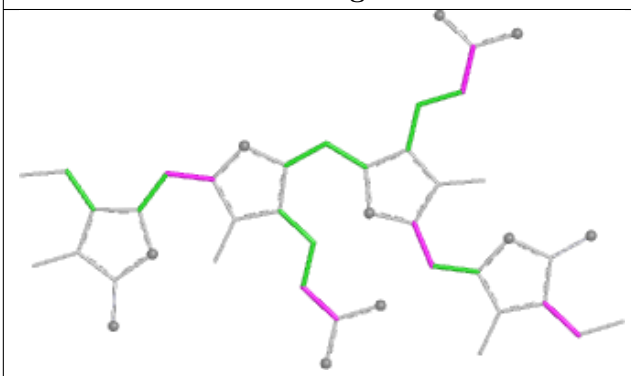
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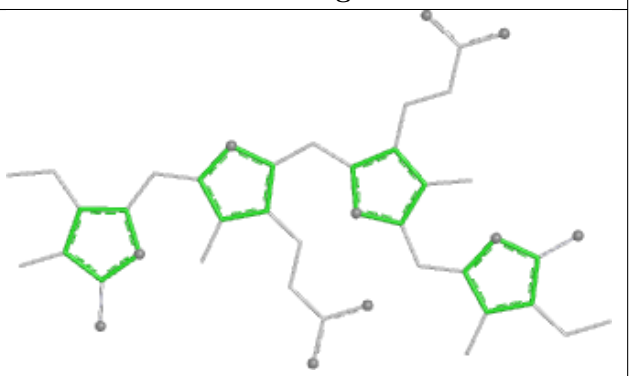
Bond lengths



Bond angles

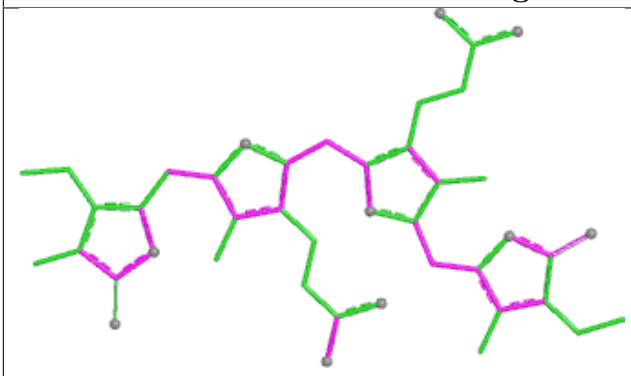


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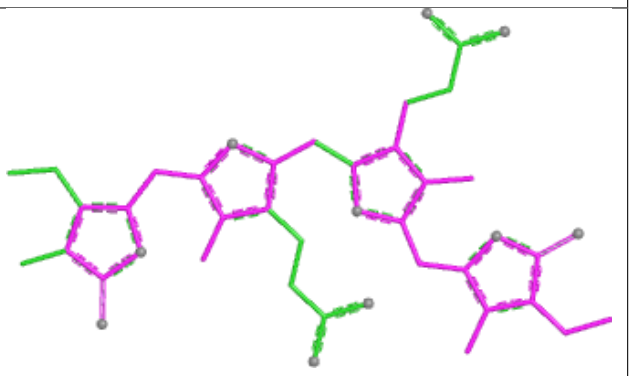


Rings

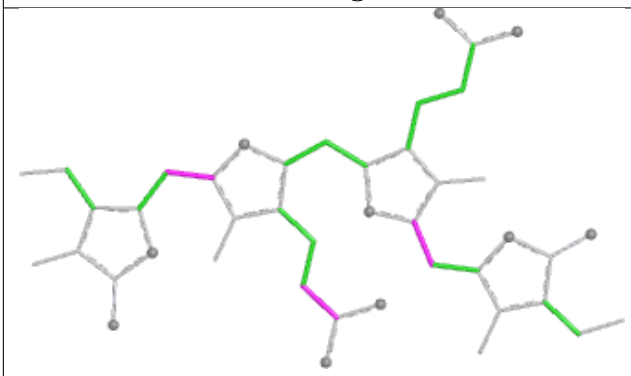
Ligand CYC H2 201



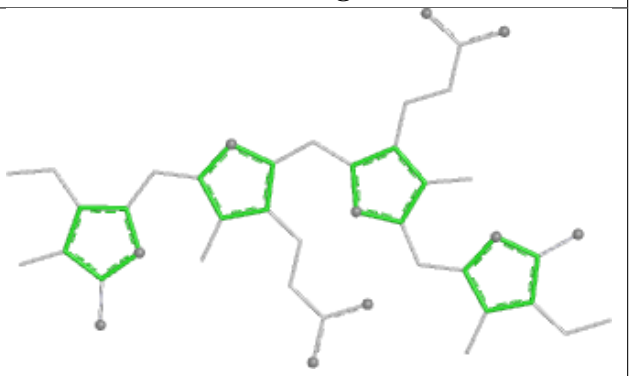
Bond lengths



Bond angles

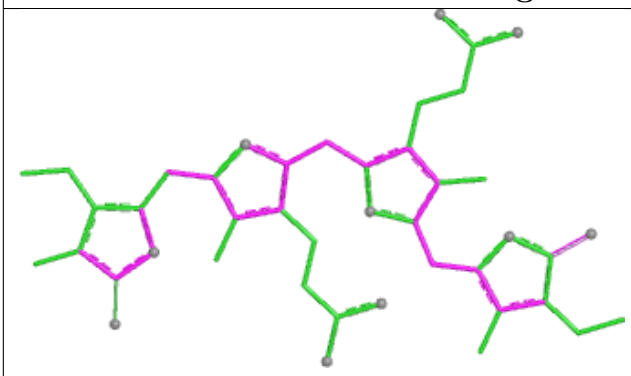


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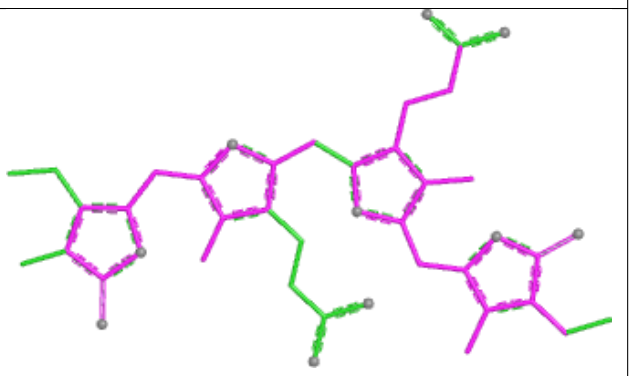


Rings

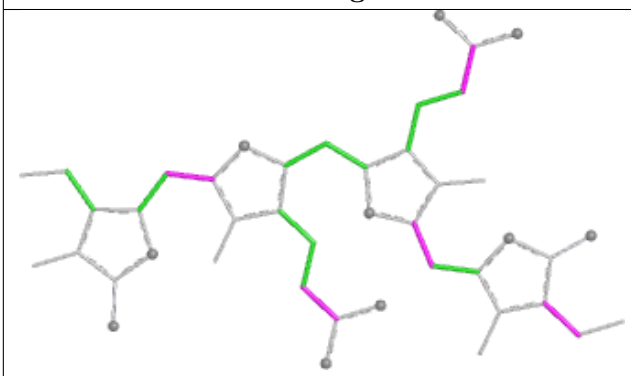
Ligand CYC h7 201



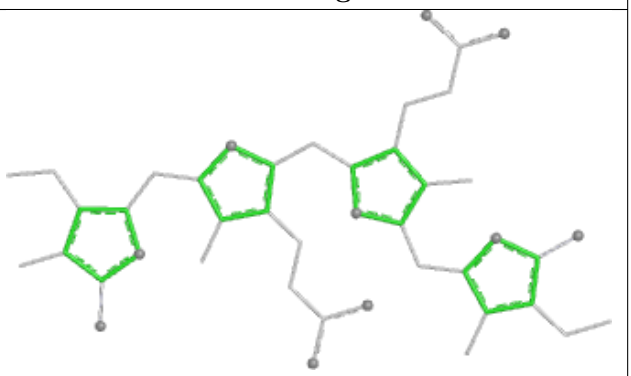
Bond lengths



Bond angles

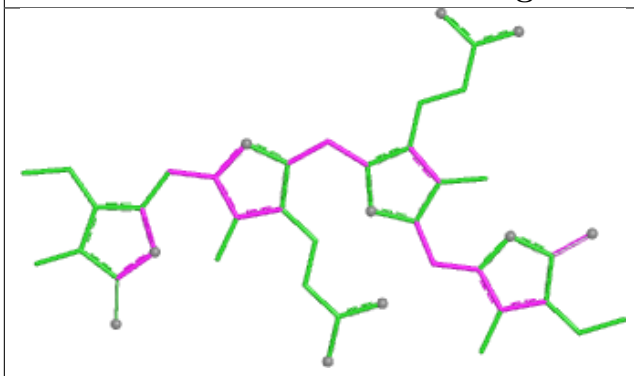


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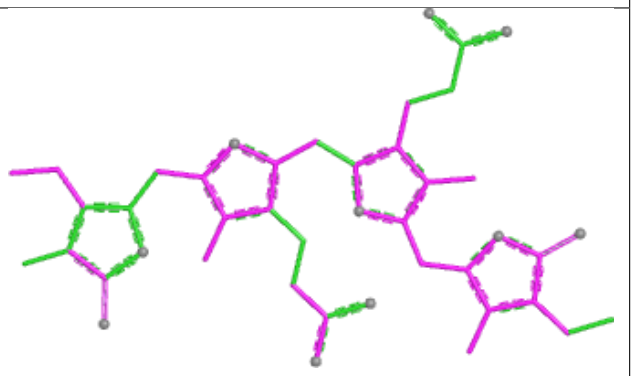


Rings

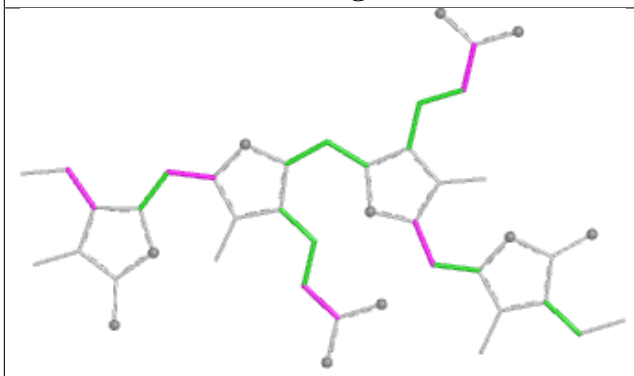
Ligand CYC Z1 201



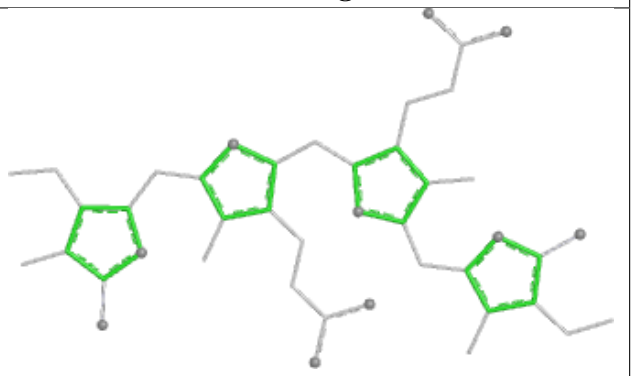
Bond lengths



Bond angles

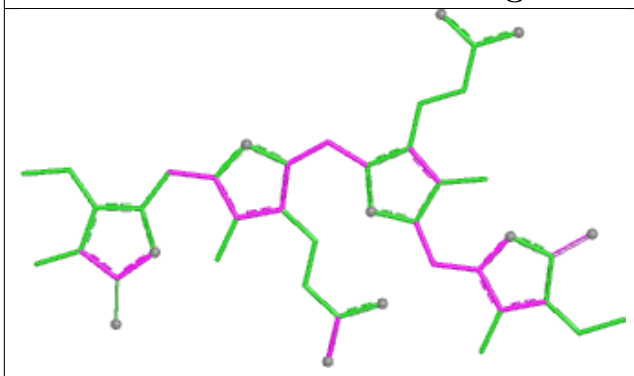


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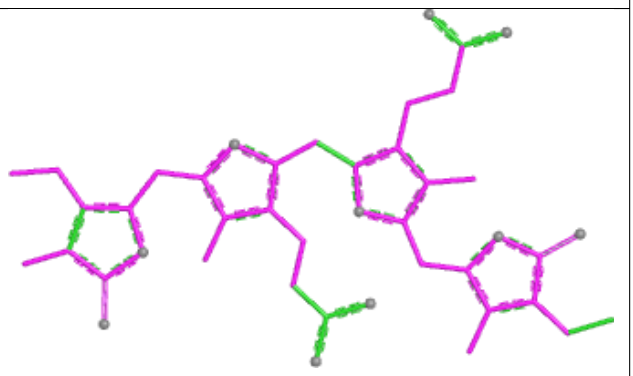


Rings

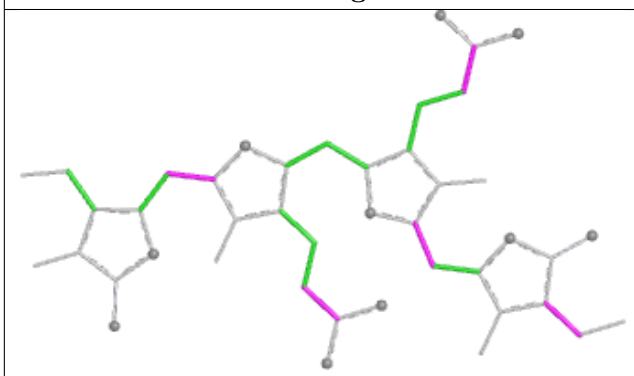
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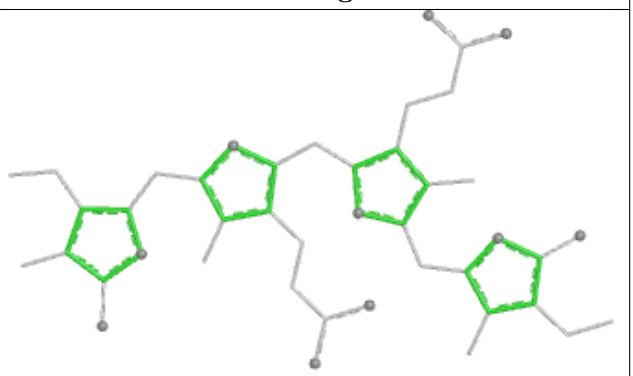
Bond lengths



Bond angles

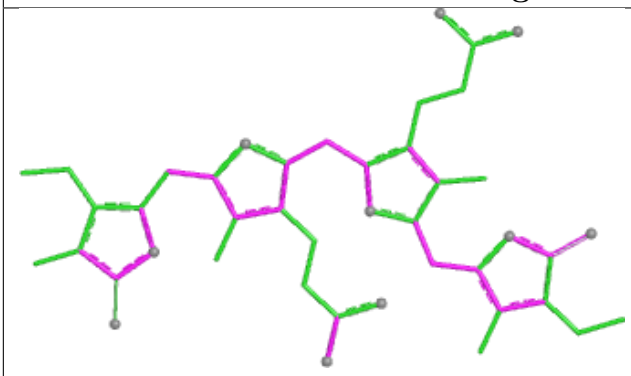


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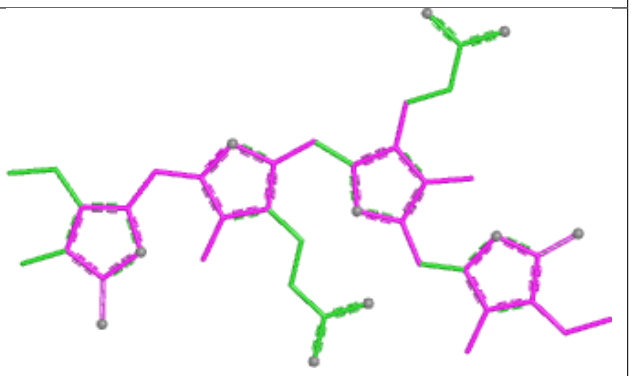


Rings

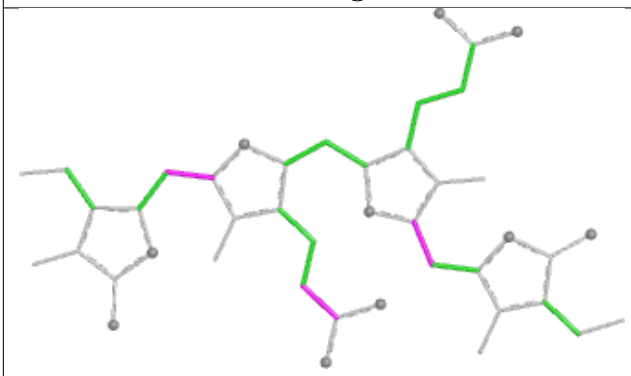
Ligand CYC H6 201



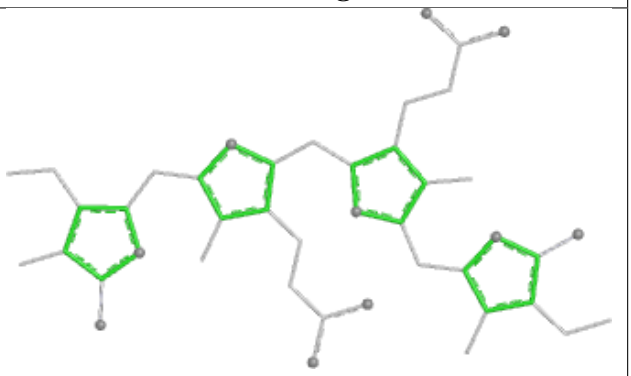
Bond lengths



Bond angles

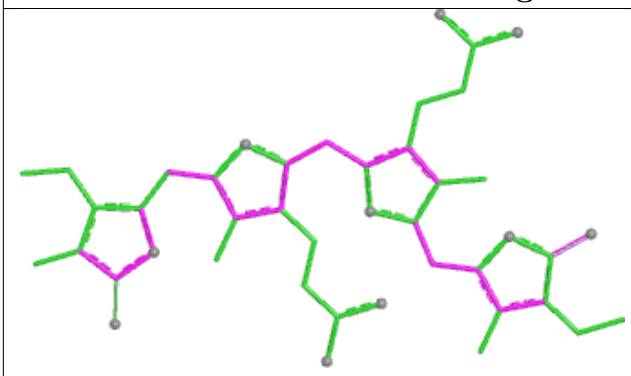


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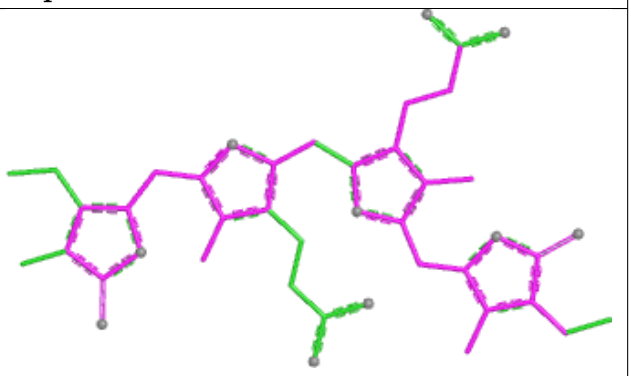


Rings

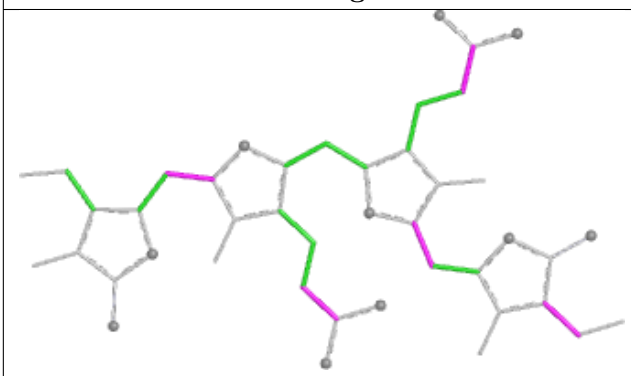
Ligand CYC p7 201



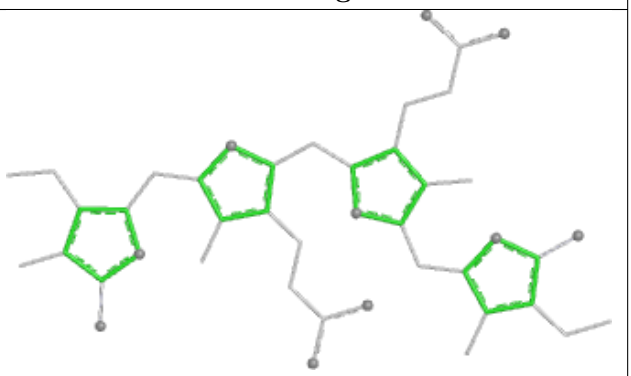
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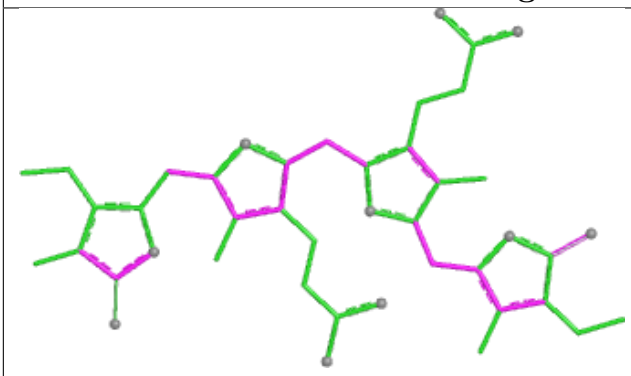


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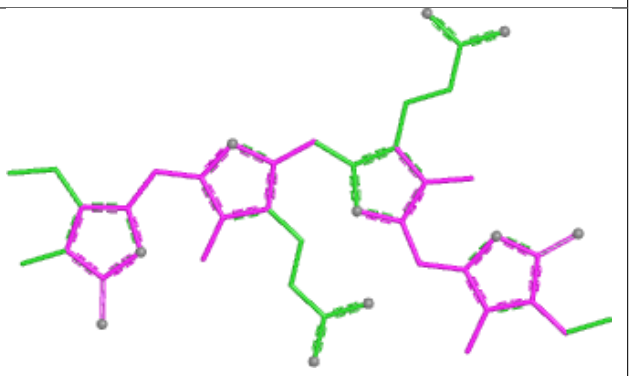


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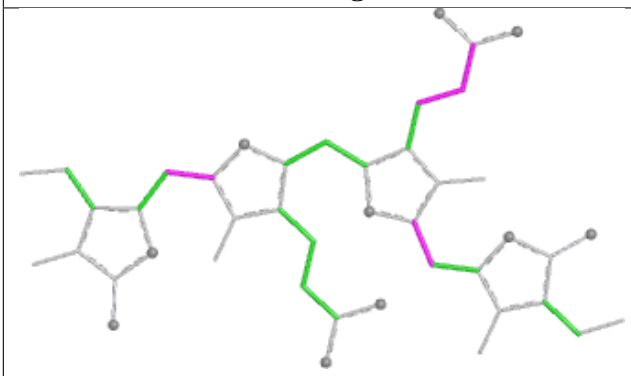
Ligand CYC e5 201



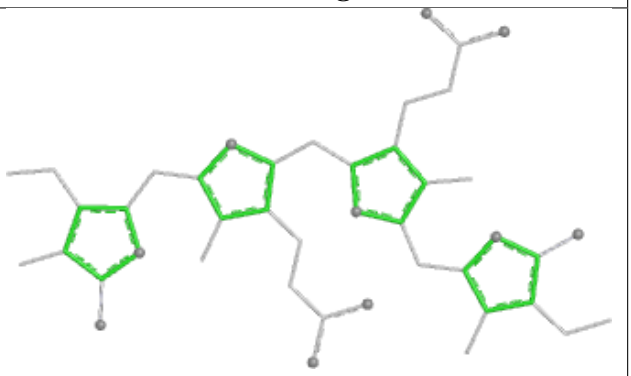
Bond lengths



Bond angles

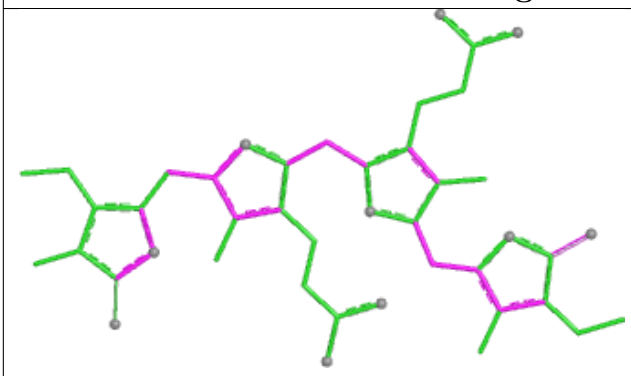


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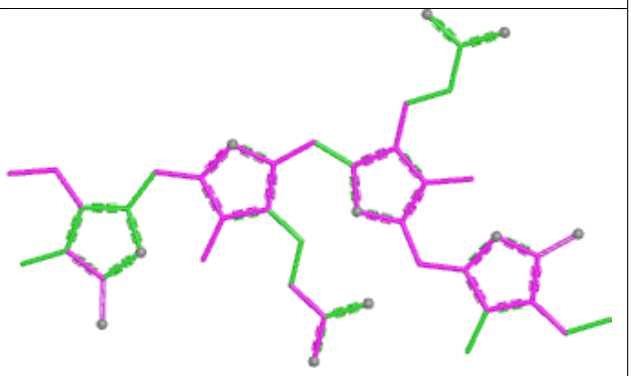


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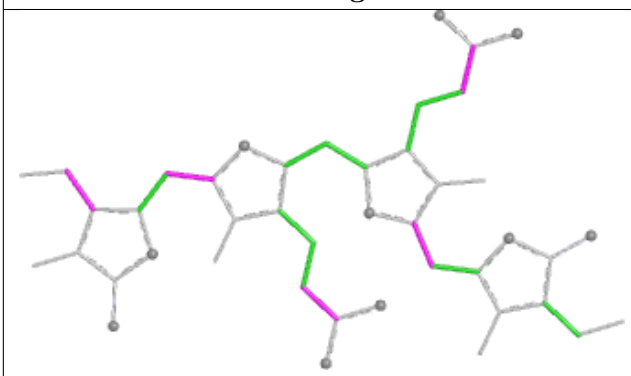
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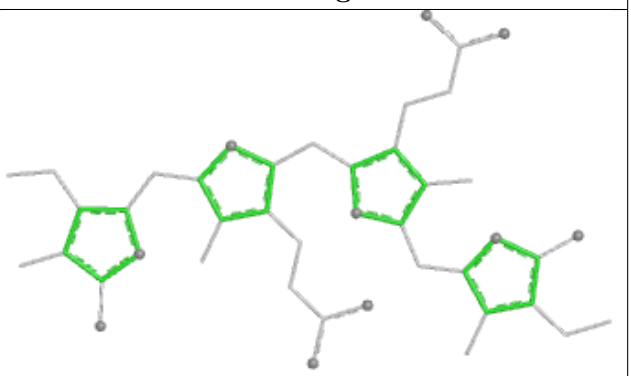
Bond lengths



Bond angles

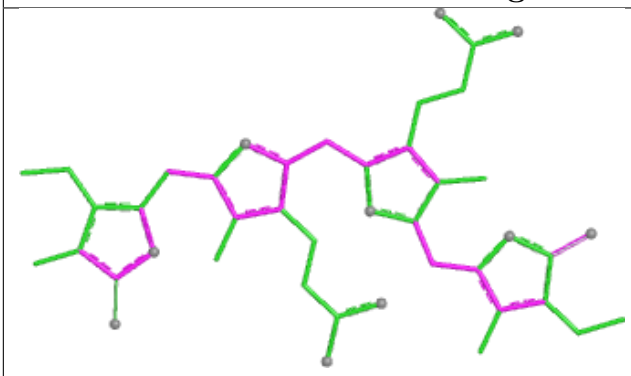


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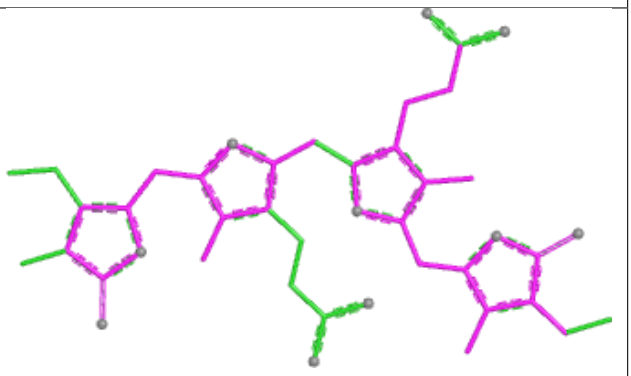


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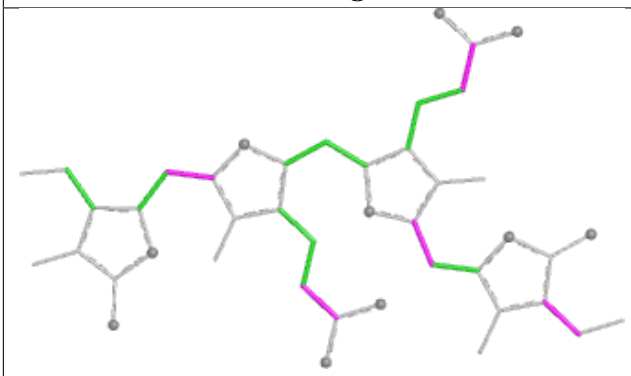
Ligand CYC k5 1202



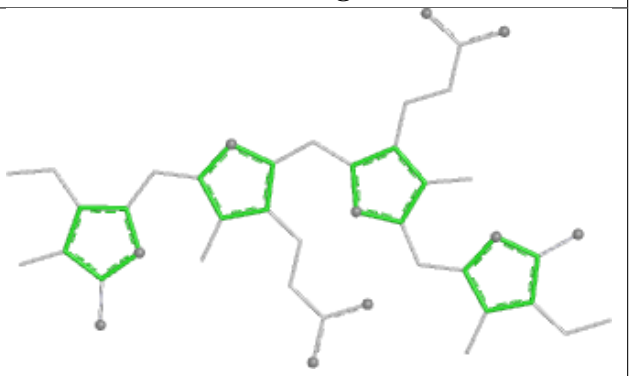
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Bond angles

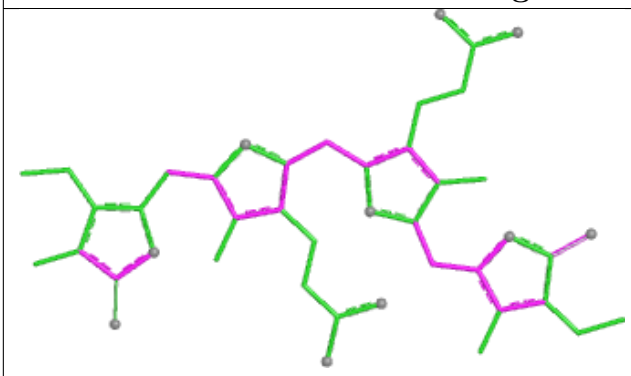


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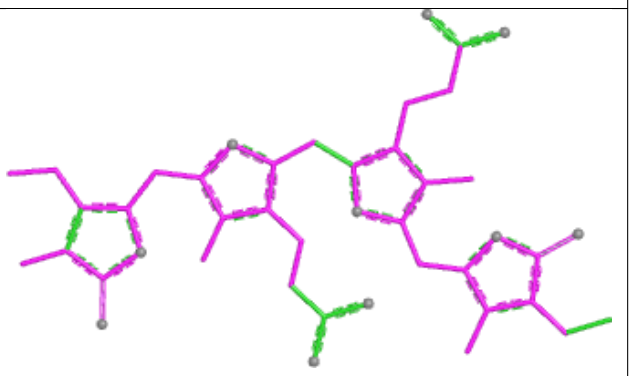


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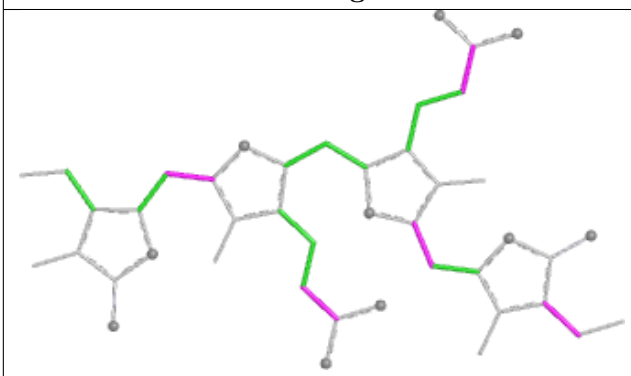
Ligand CYC G3 201



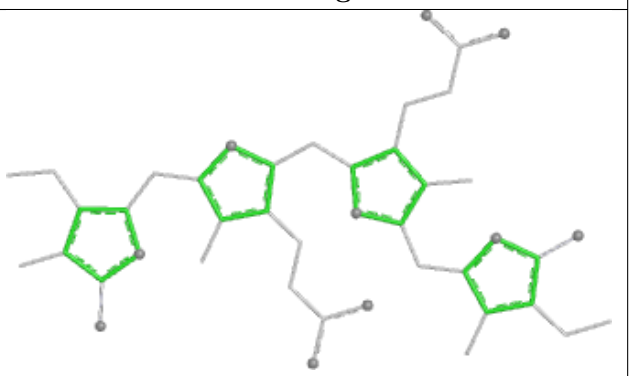
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Bond angles

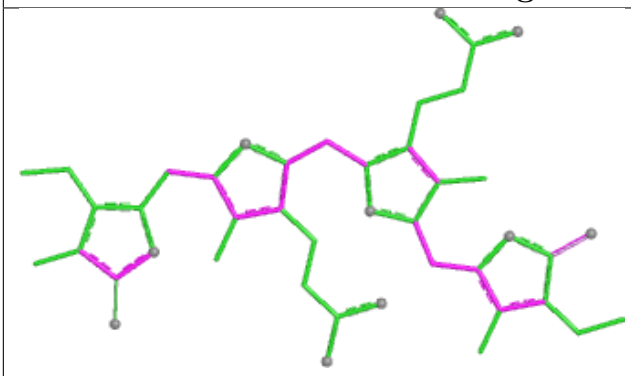


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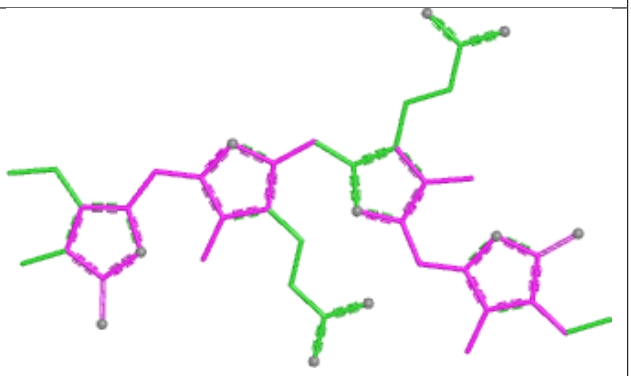


Rings

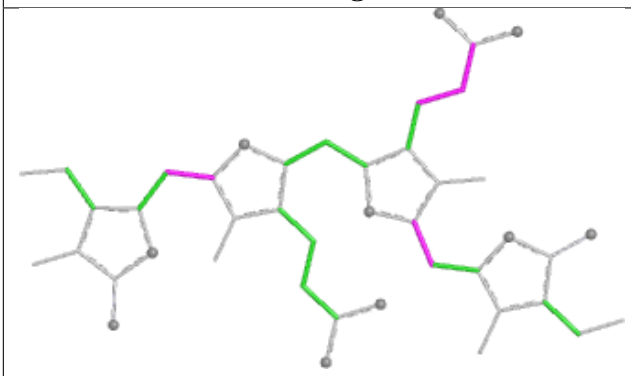
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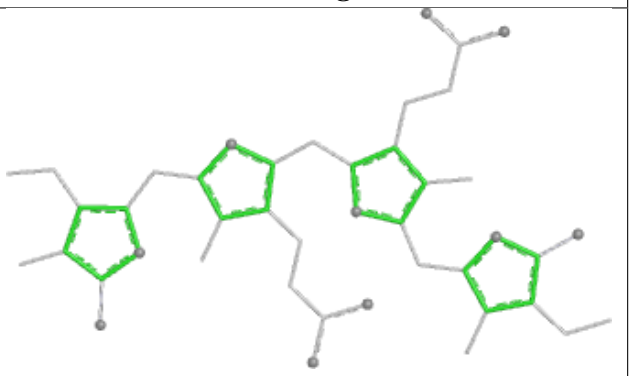
Bond lengths



Bond angles

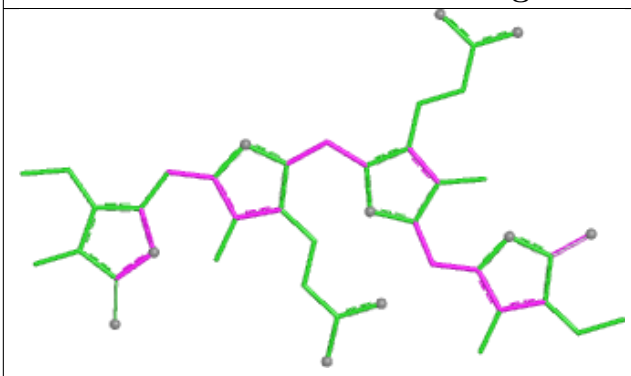


Torsions

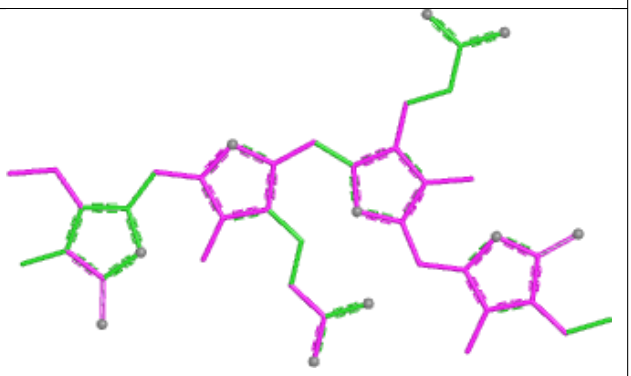


Rings

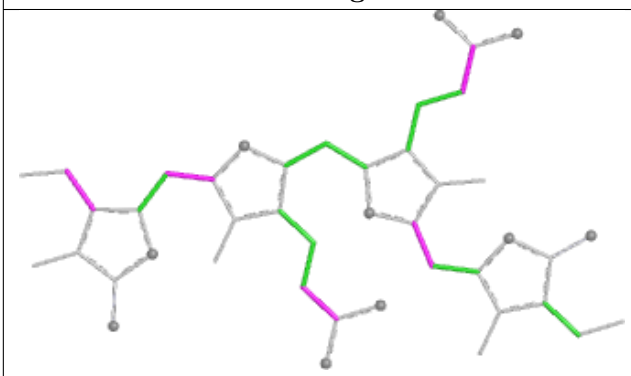
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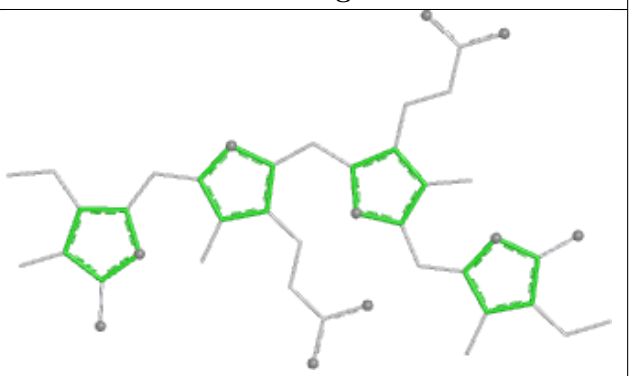
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Bond angles

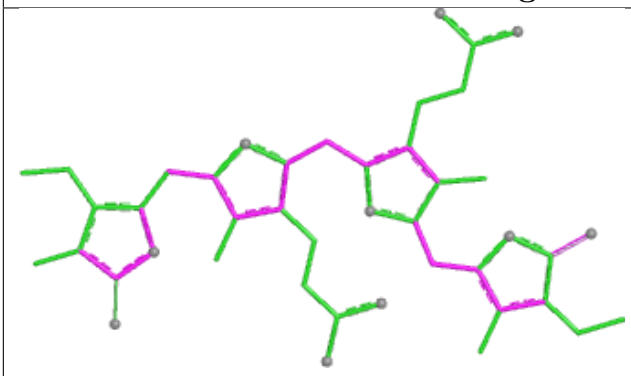


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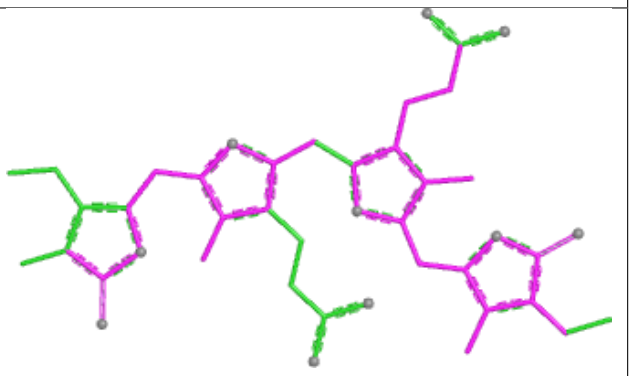


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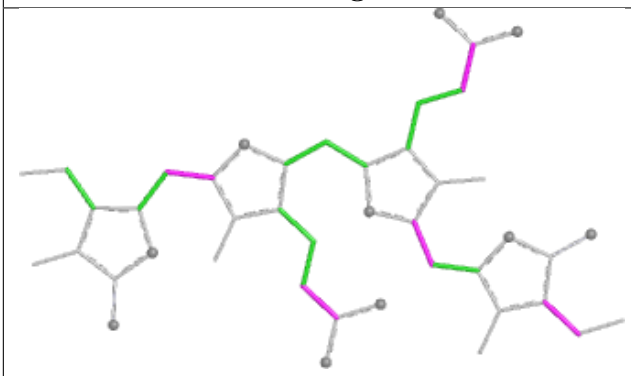
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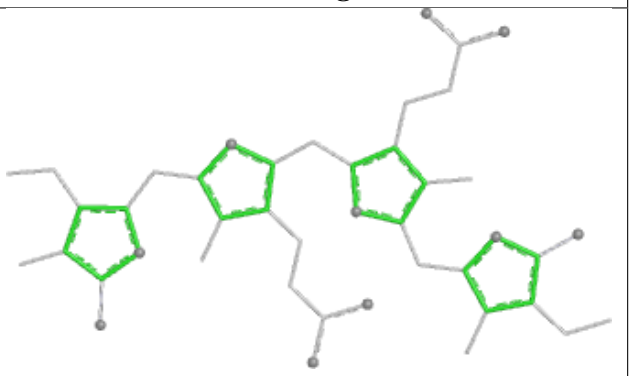
Bond lengths



Bond angles

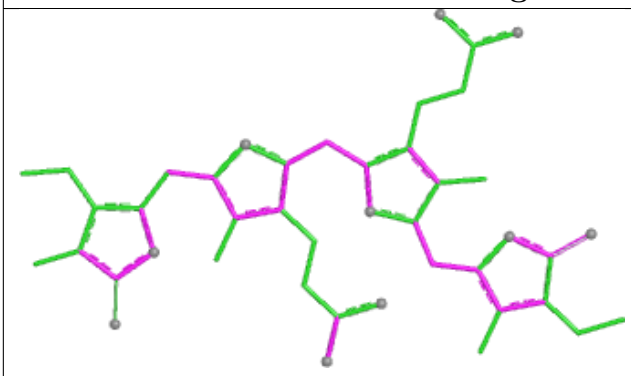


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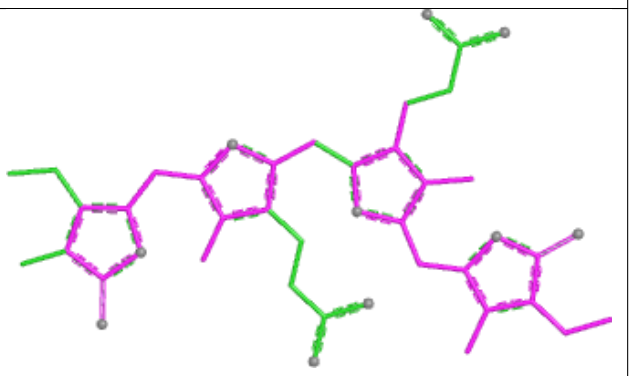


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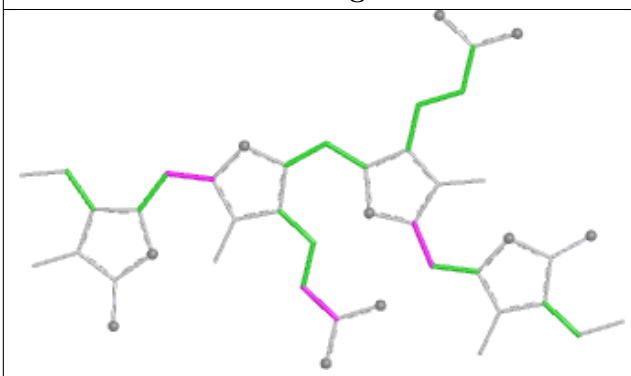
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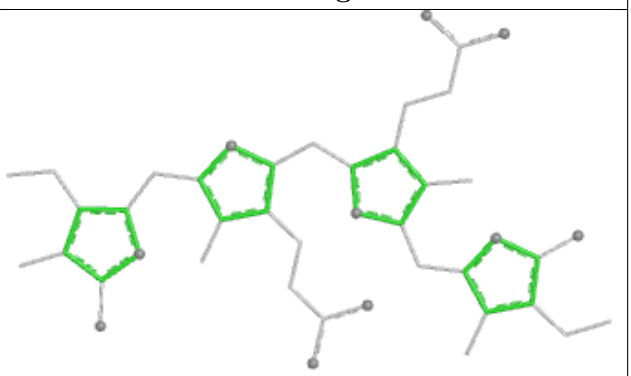
Bond lengths



Bond angles

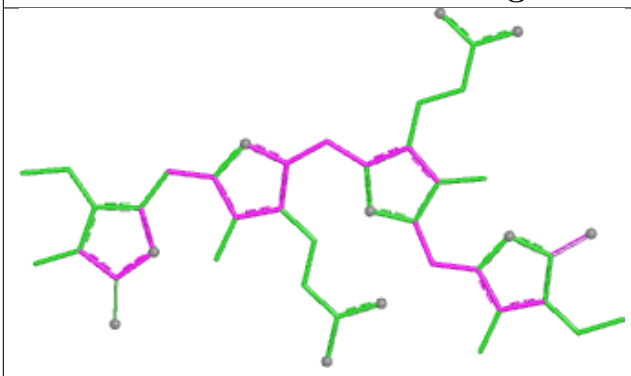


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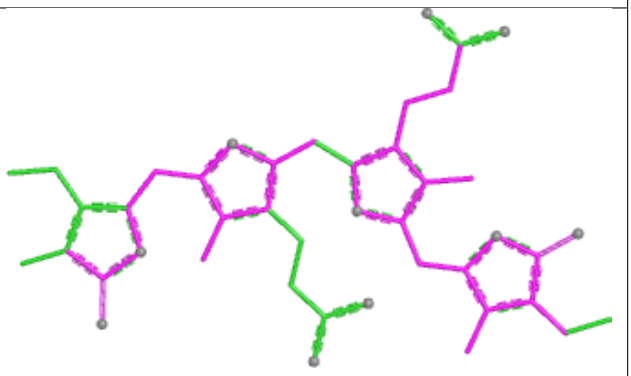


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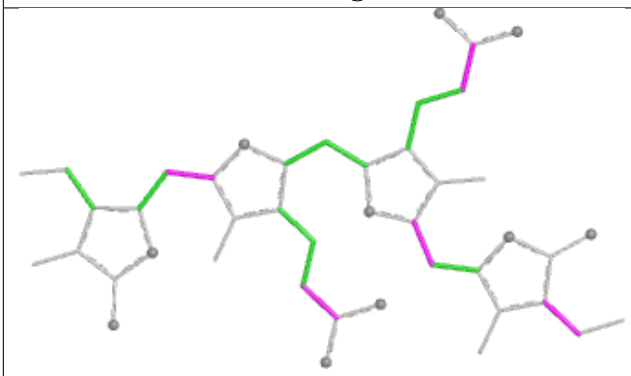
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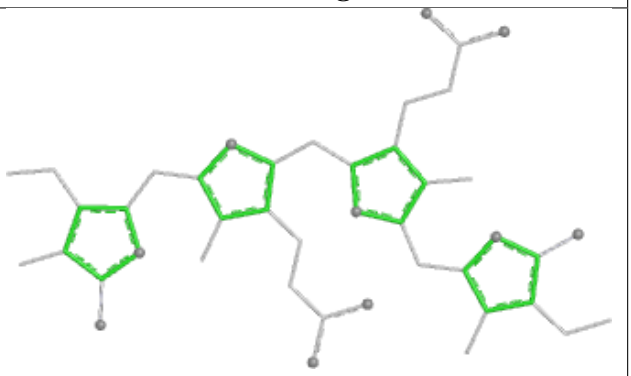
Bond lengths



Bond angles

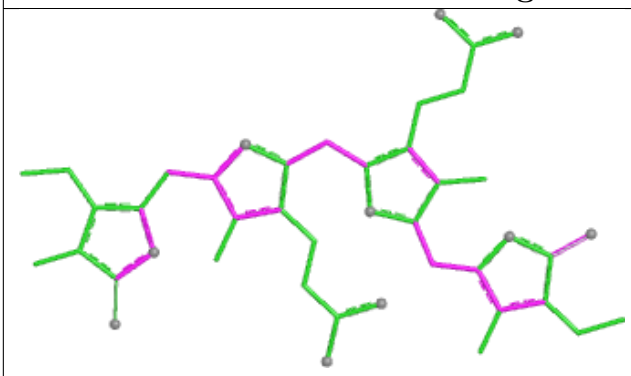


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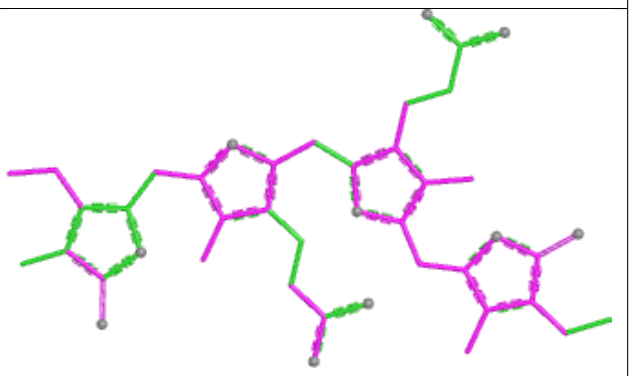


Rings

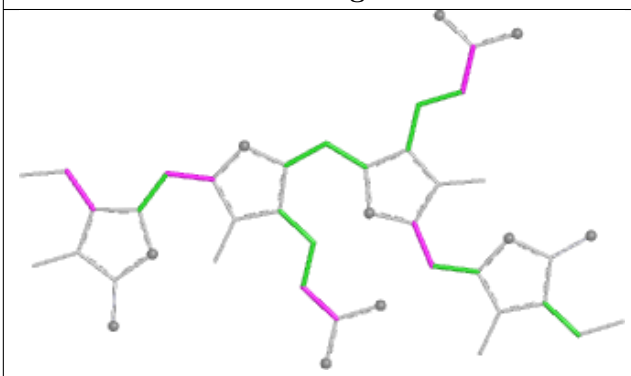
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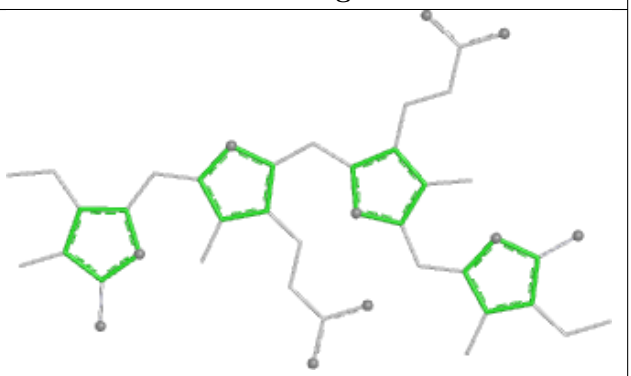
Bond lengths



Bond angles

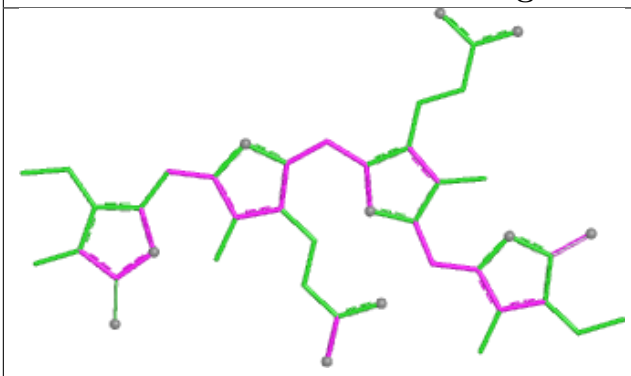


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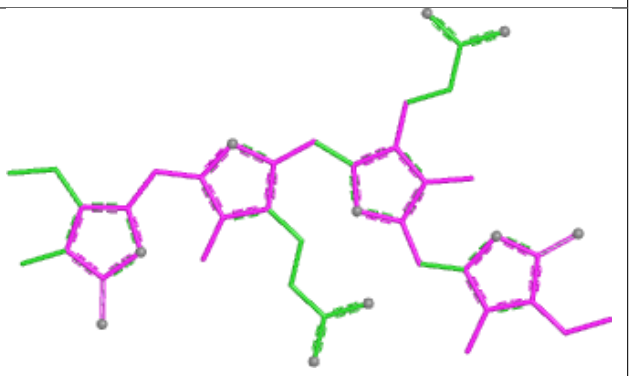


Rings

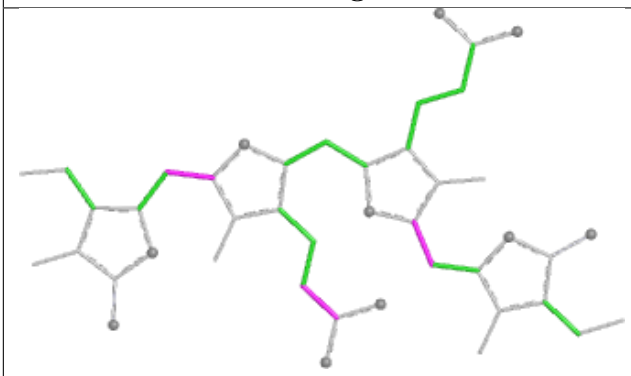
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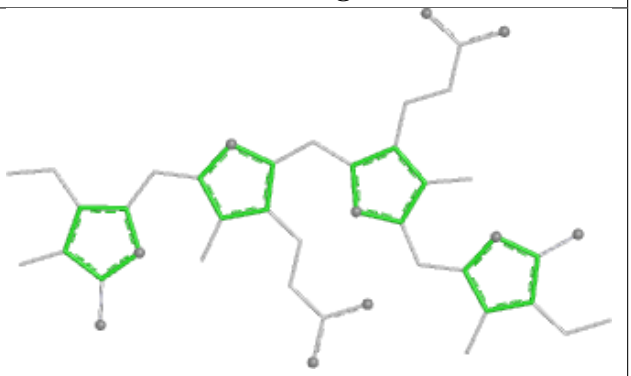
Bond lengths



Bond angles

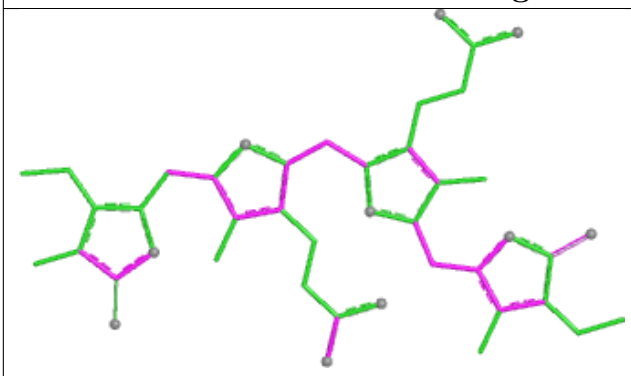


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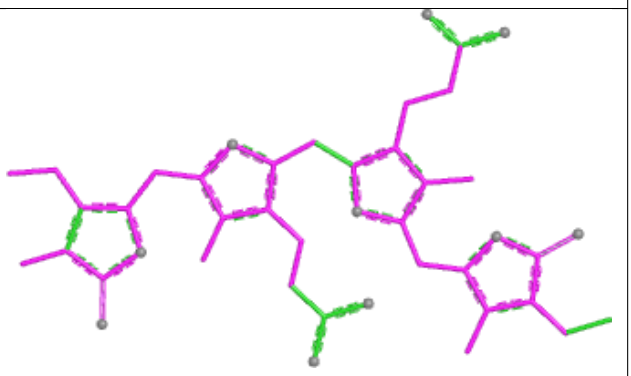


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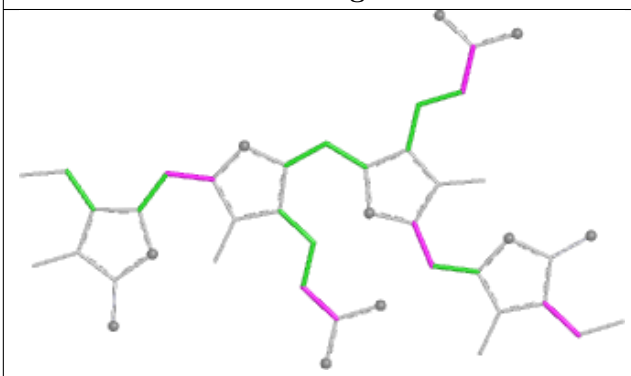
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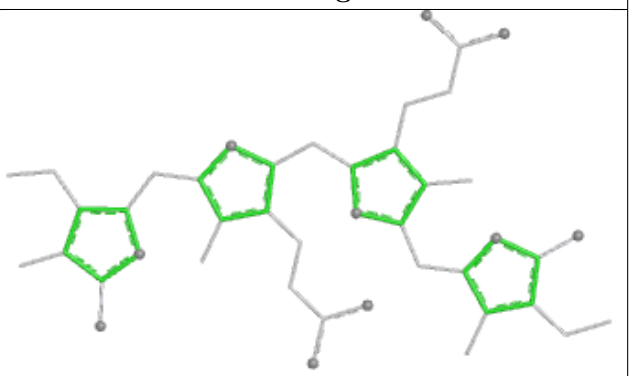
Bond lengths



Bond angles

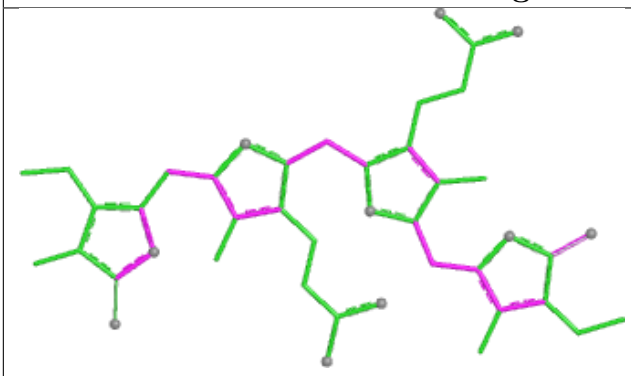


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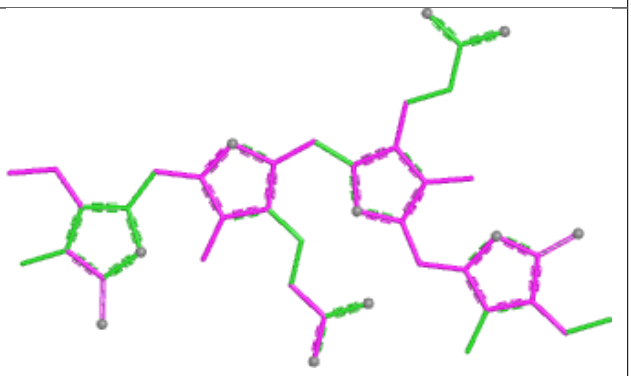


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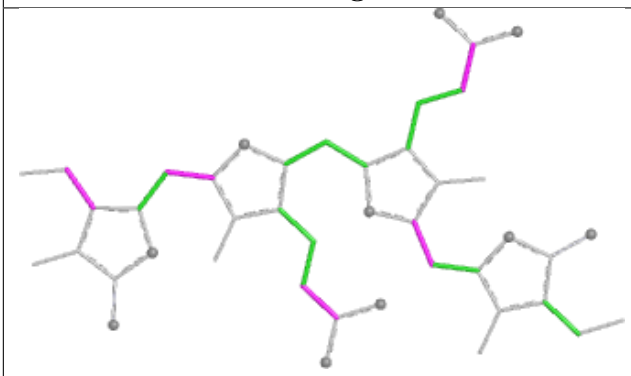
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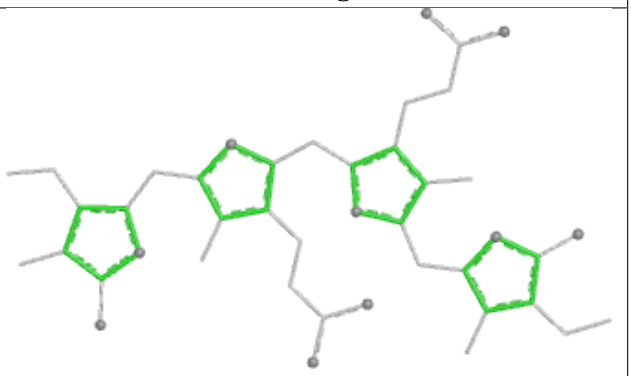
Bond lengths



Bond angles

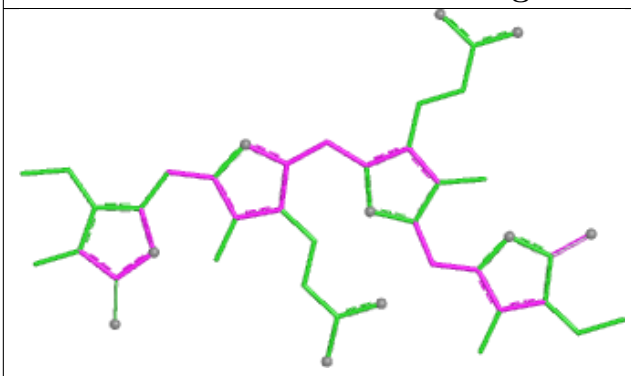


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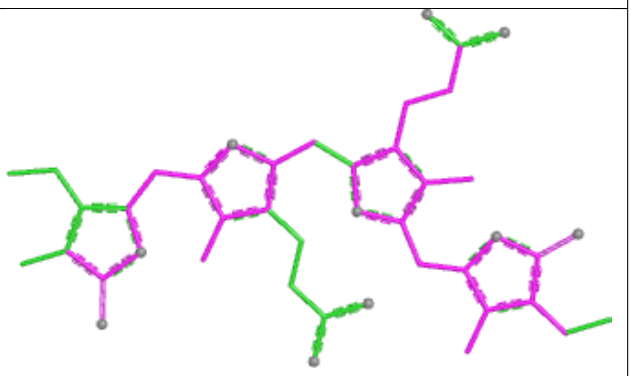


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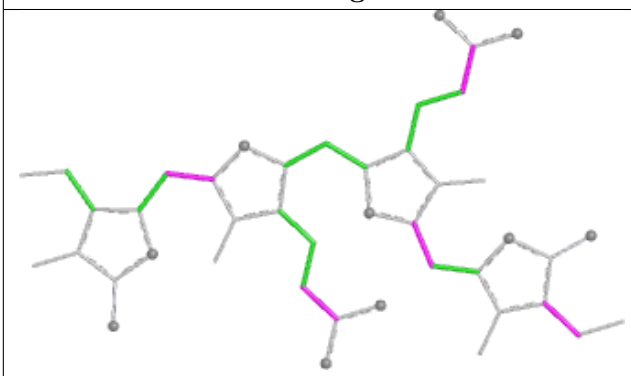
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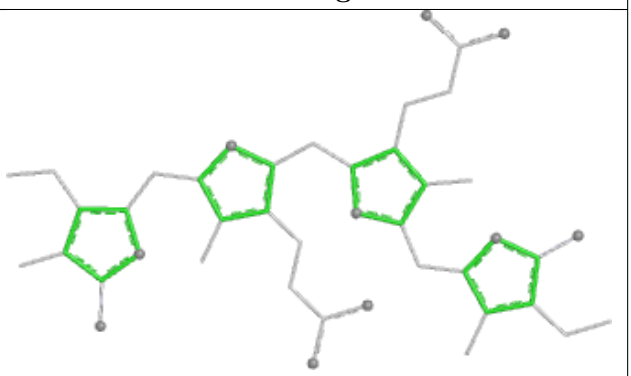
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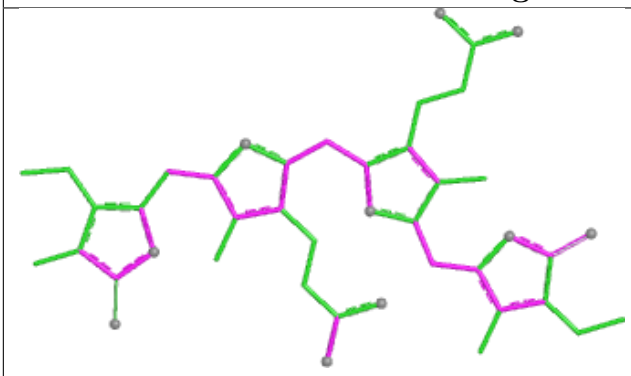


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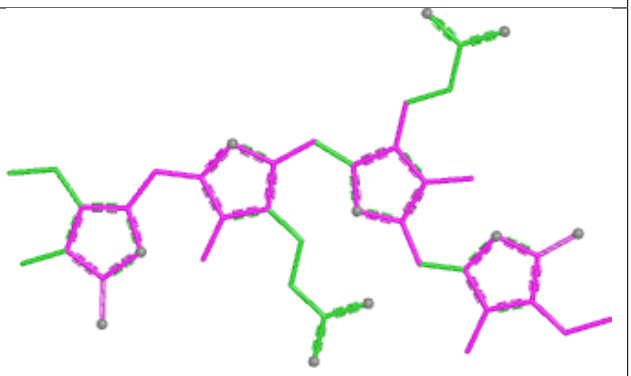


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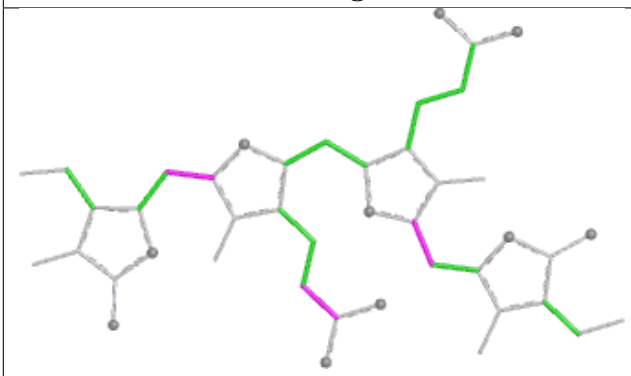
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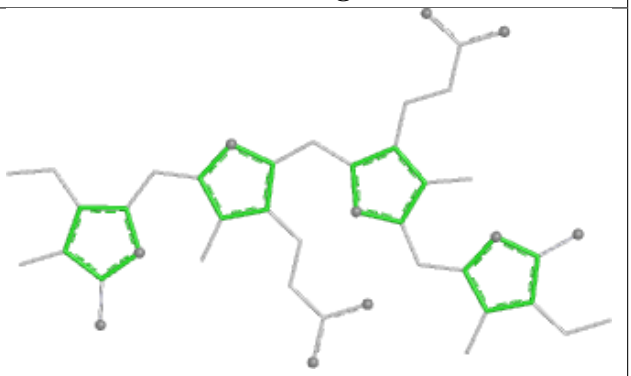
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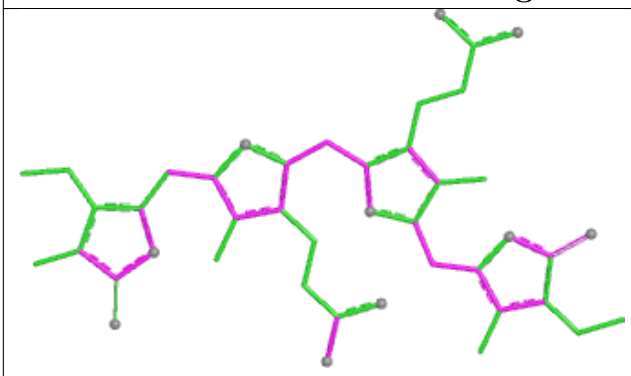


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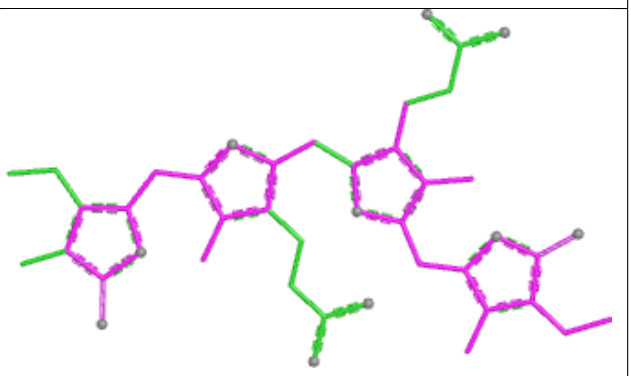


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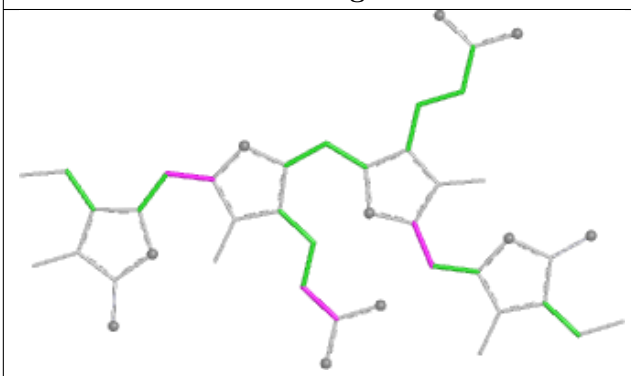
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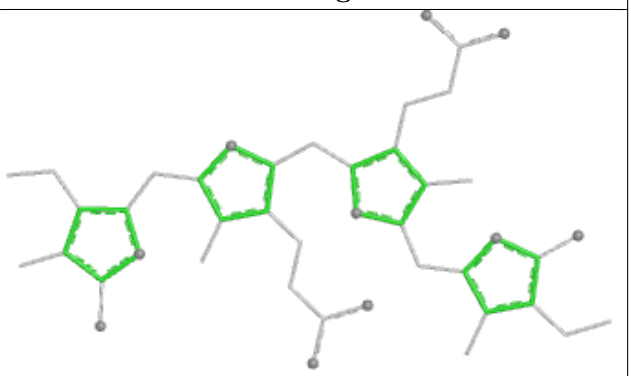
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Bond angles

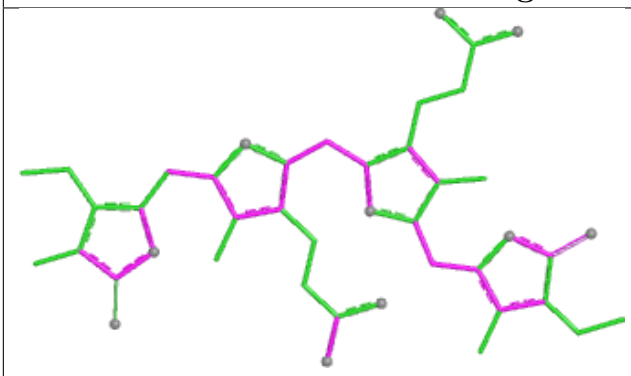


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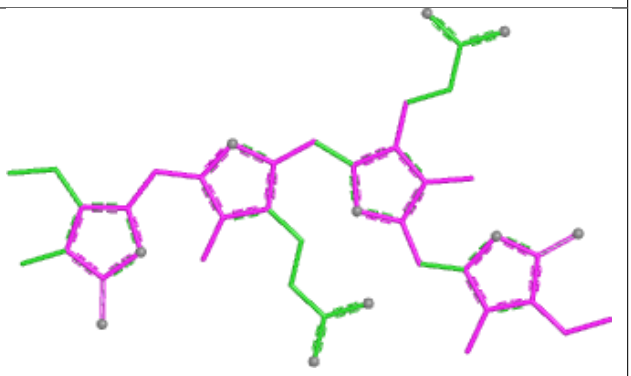


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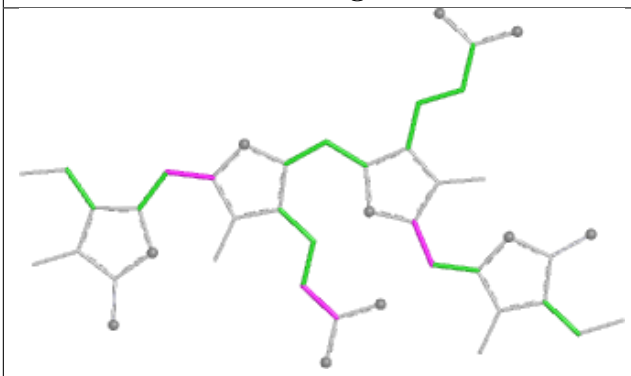
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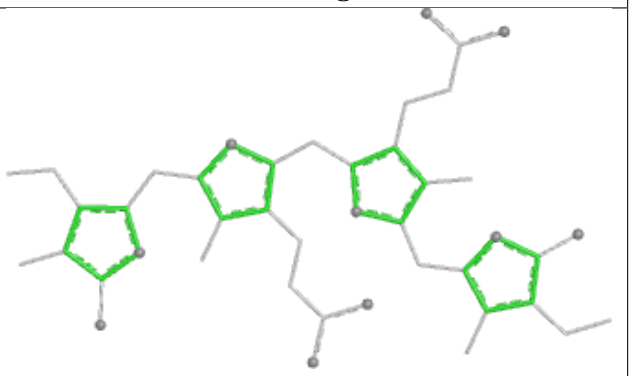
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Bond angles

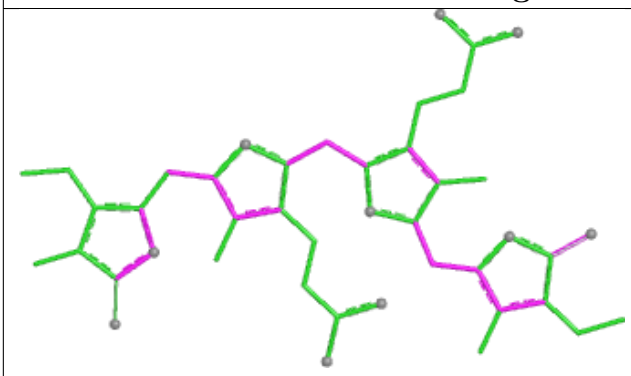


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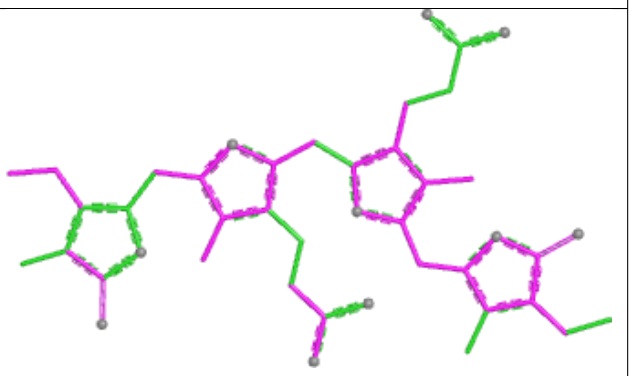


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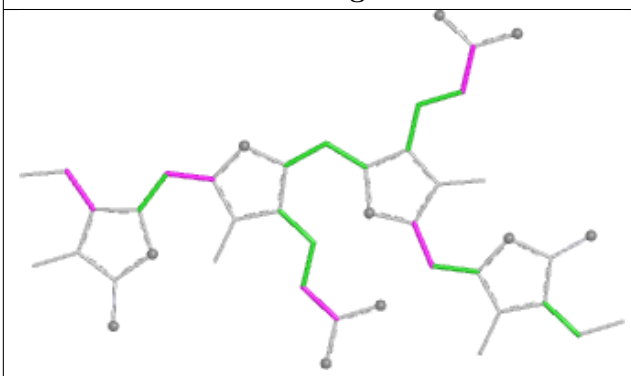
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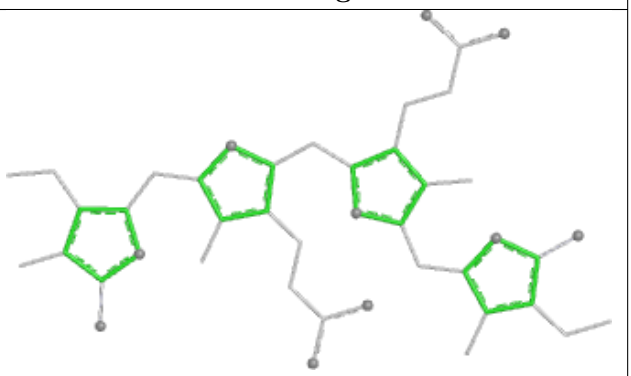
Bond lengths



Bond angles

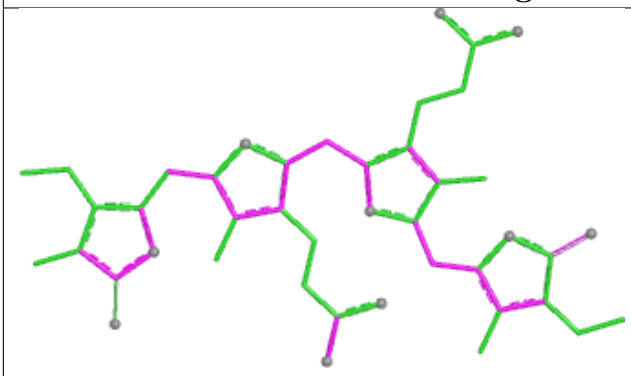


Torsions

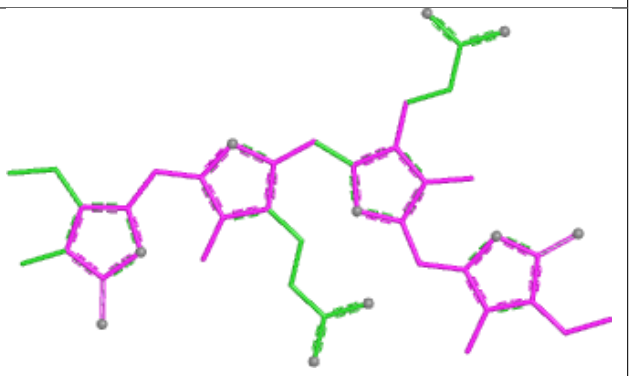


Rings

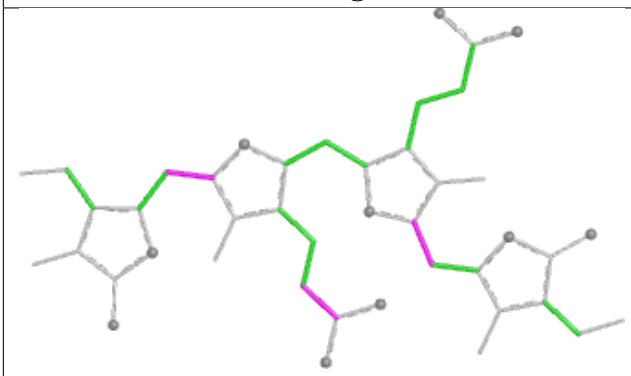
Ligand CYC Z8 301



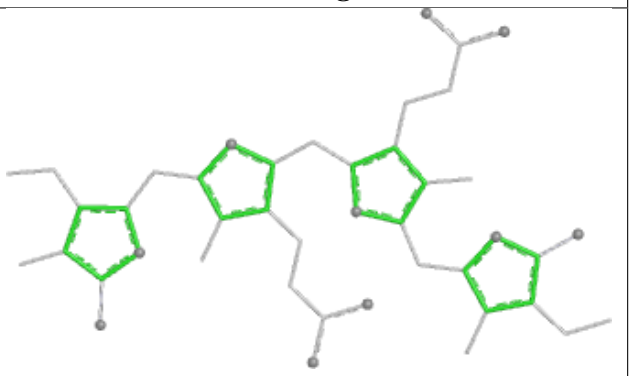
Bond lengths



Bond angles

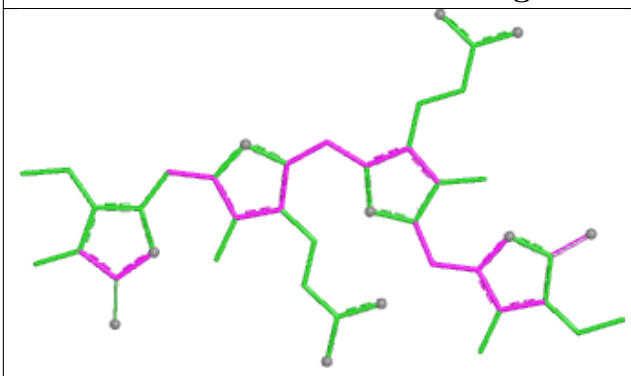


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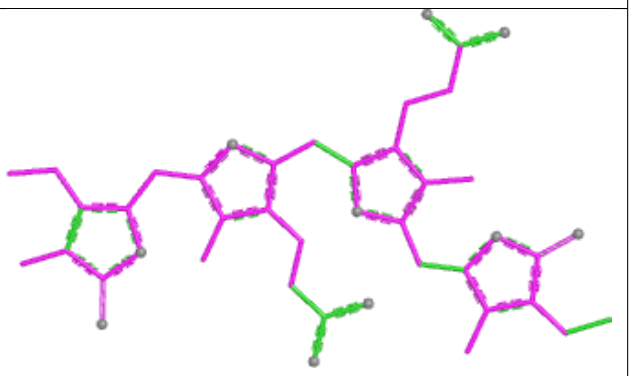


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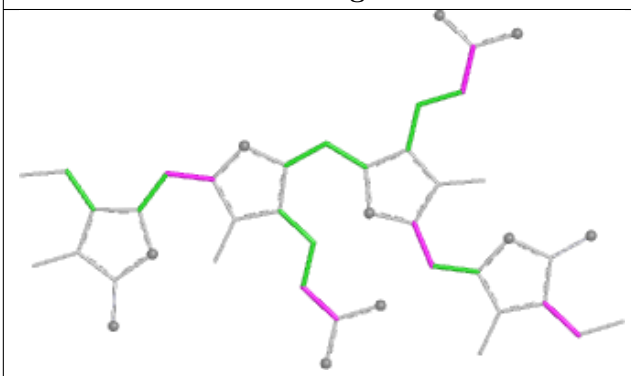
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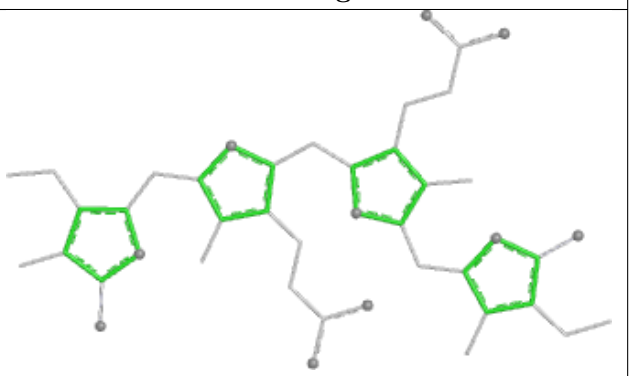
Bond lengths



Bond angles

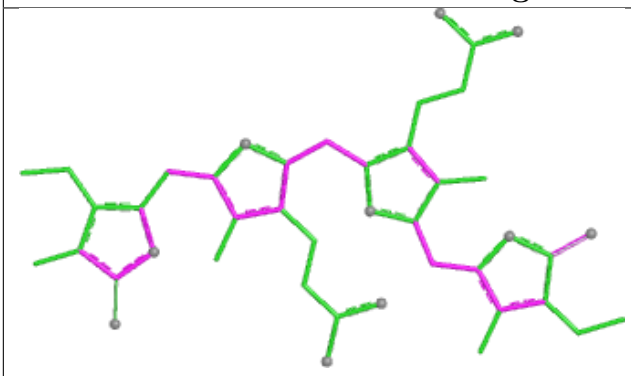


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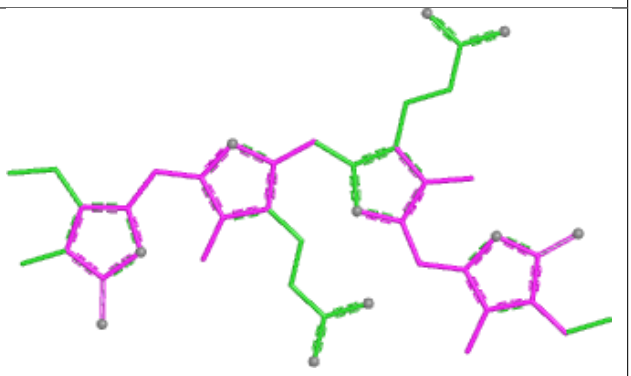


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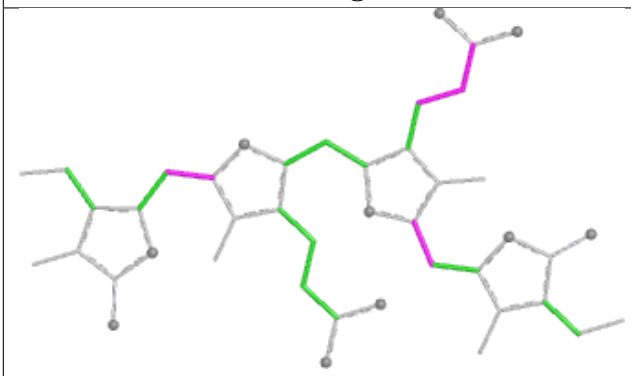
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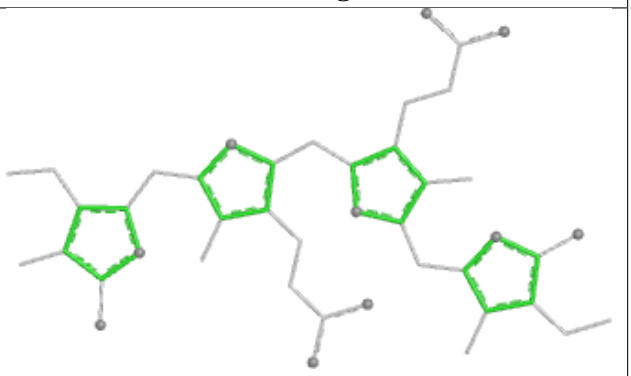
Bond lengths



Bond angles

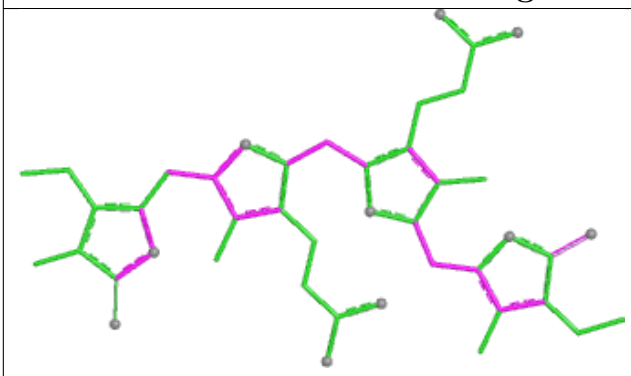


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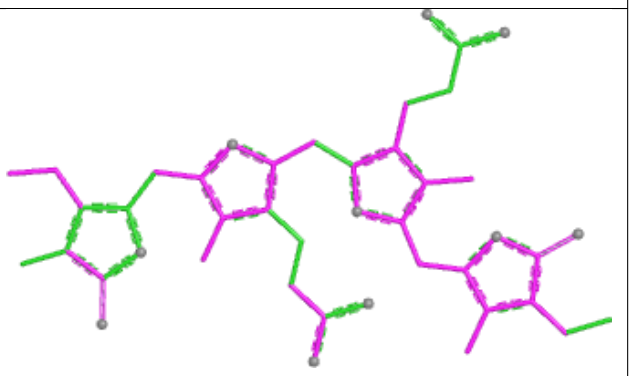


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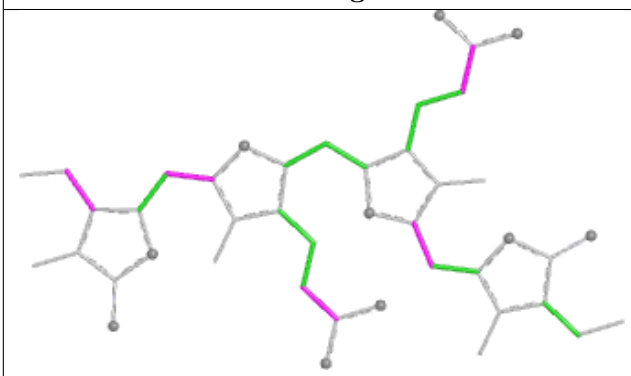
Ligand CYC J3 201



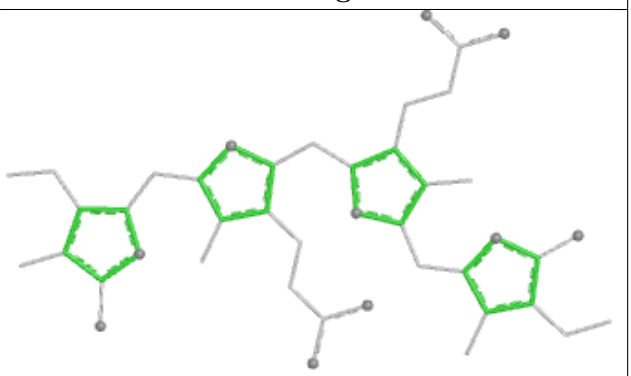
Bond lengths



Bond angles

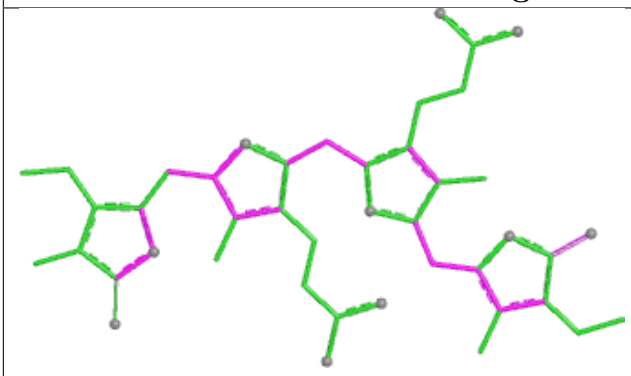


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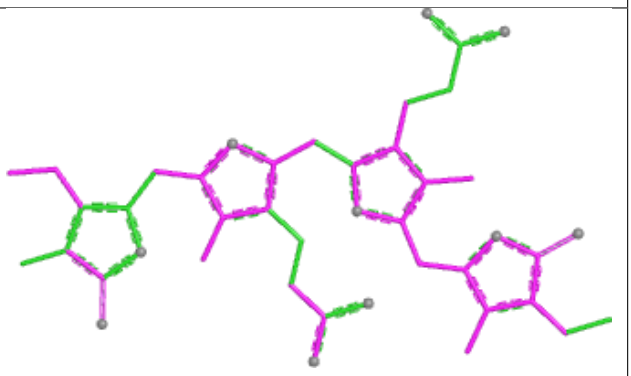


Rings

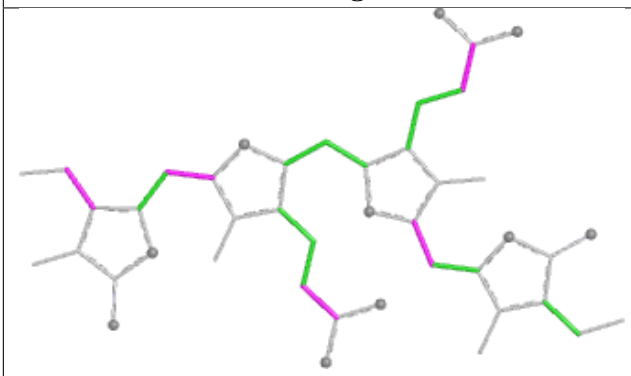
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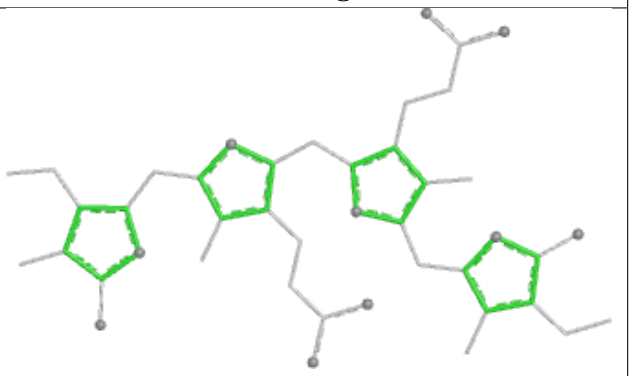
Bond lengths



Bond angles

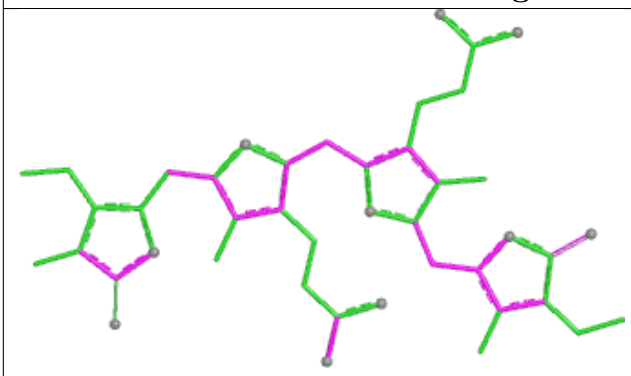


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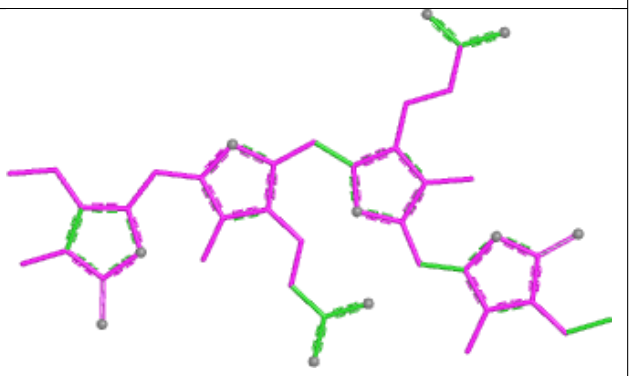


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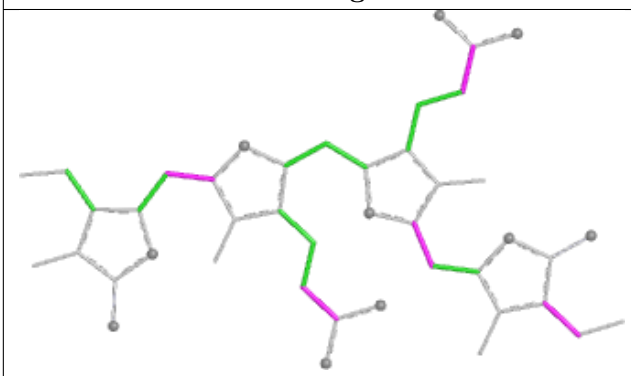
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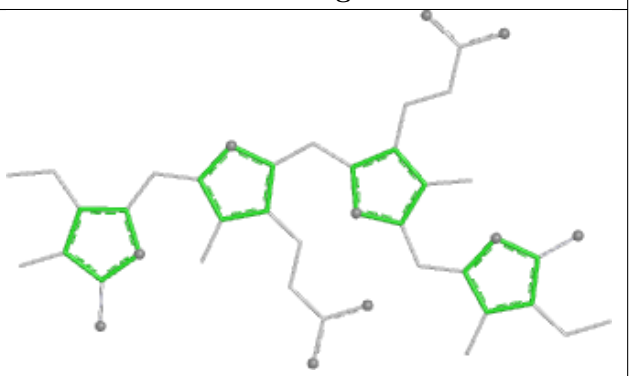
Bond lengths



Bond angles

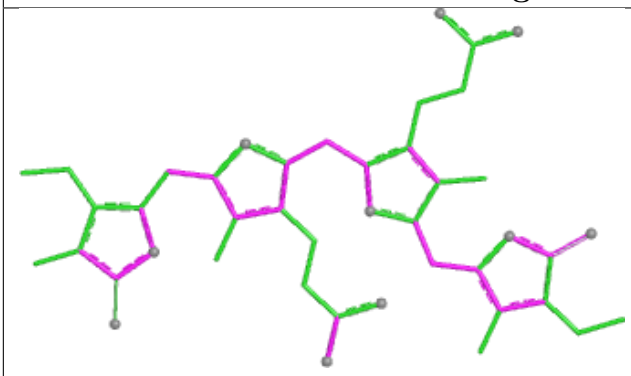


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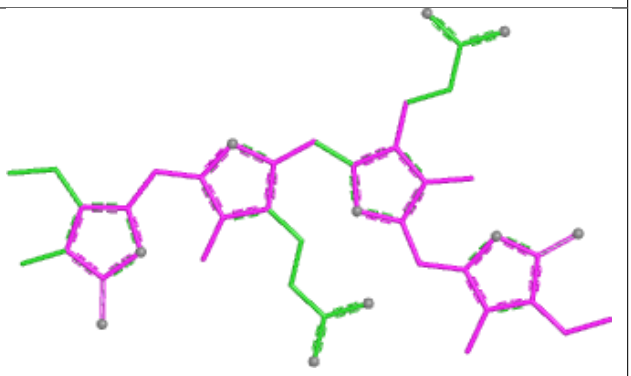


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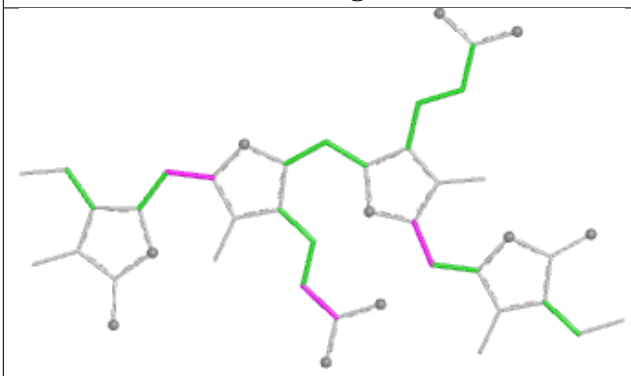
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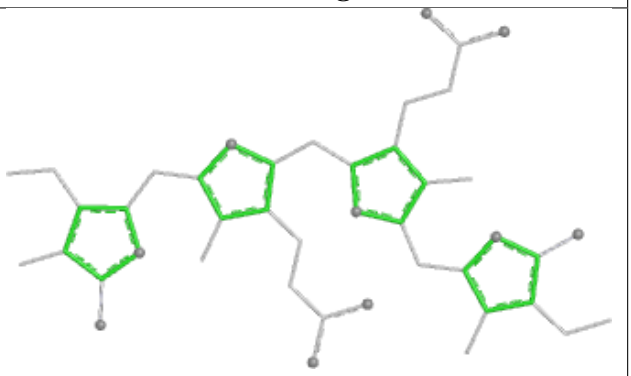
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Bond angles

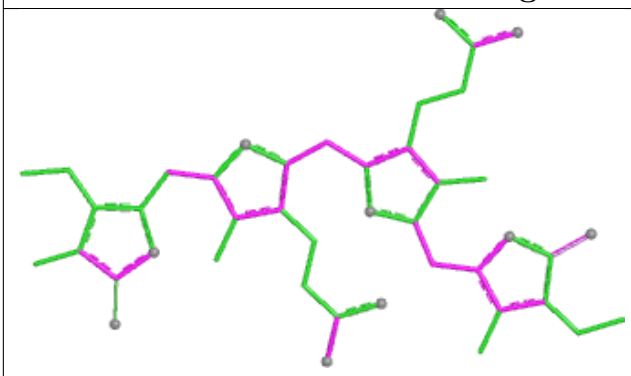


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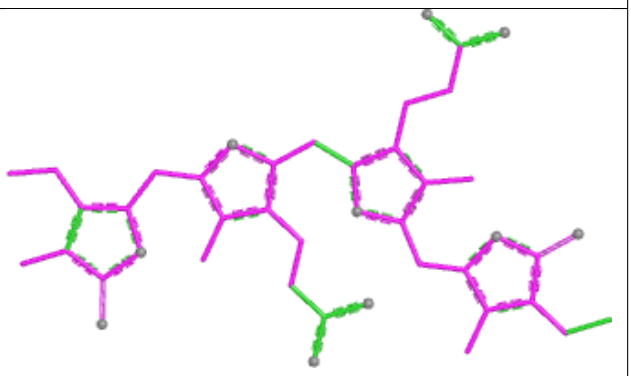


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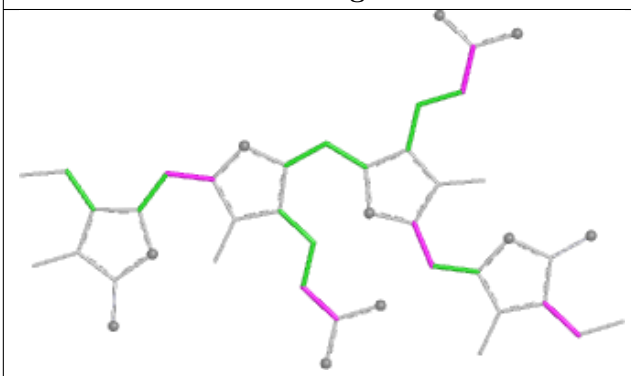
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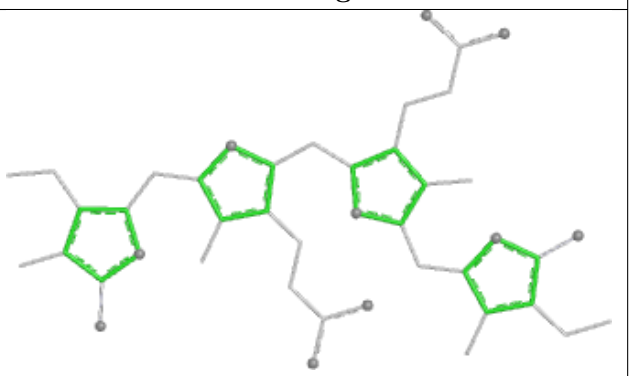
Bond lengths



Bond angles

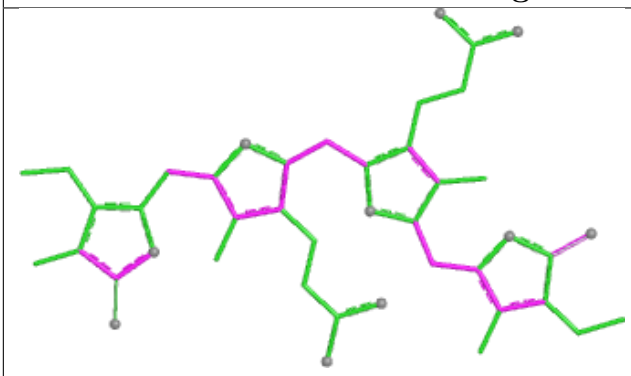


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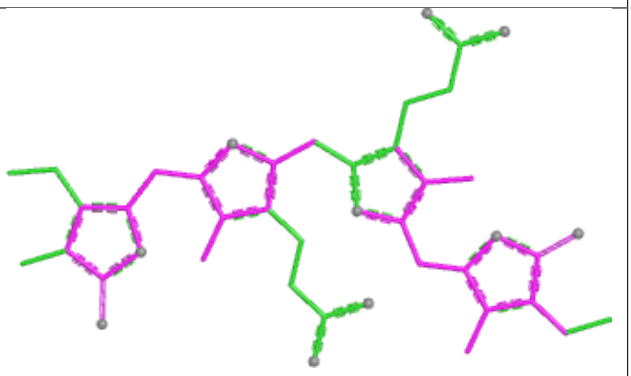


Rings

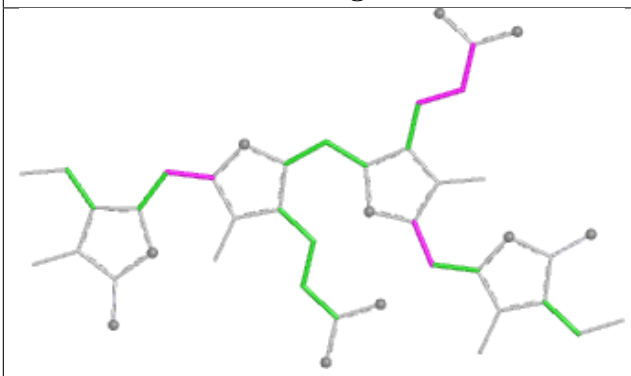
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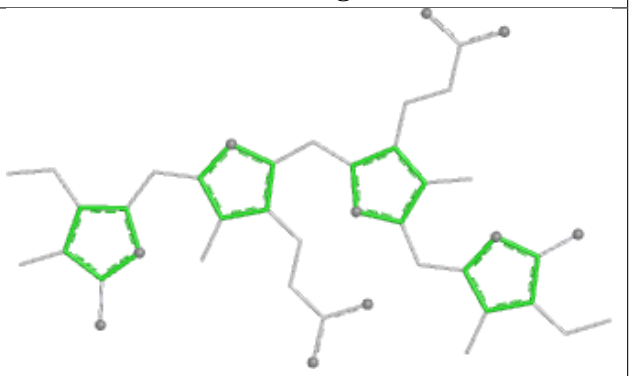
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Bond angles

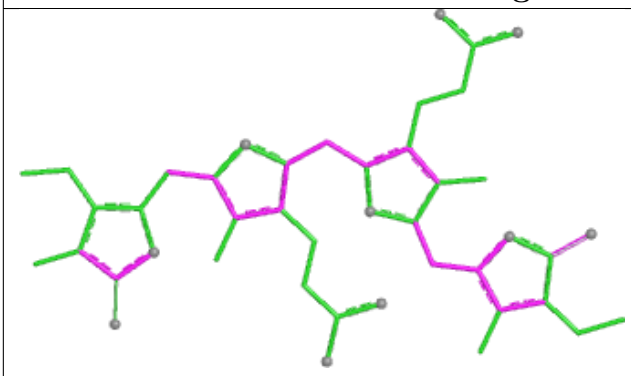


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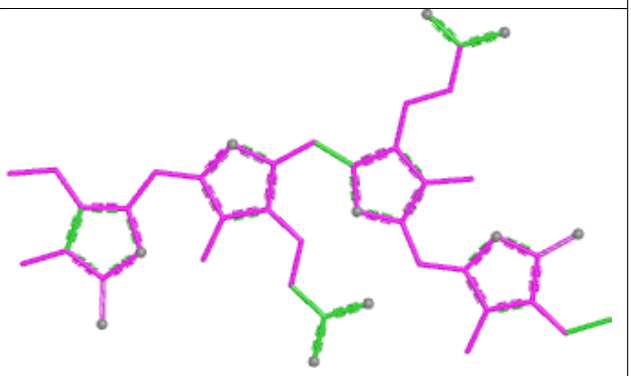


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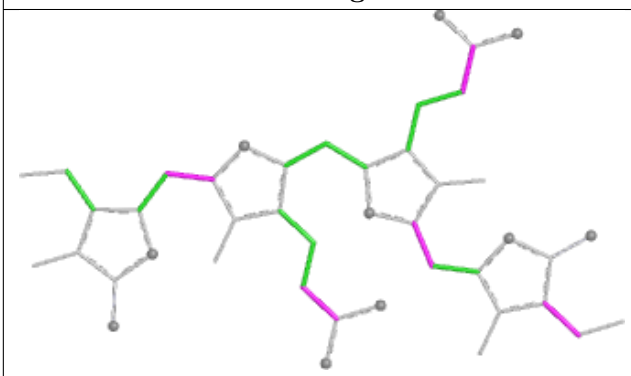
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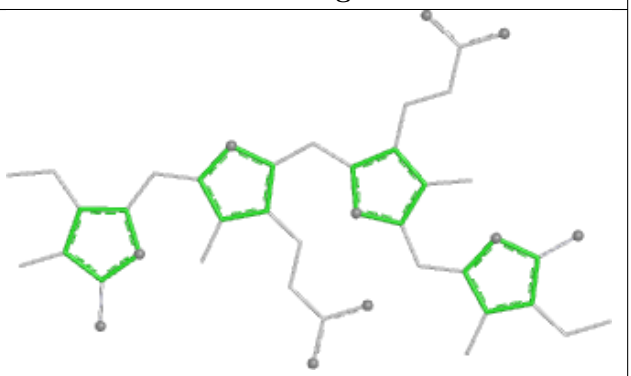
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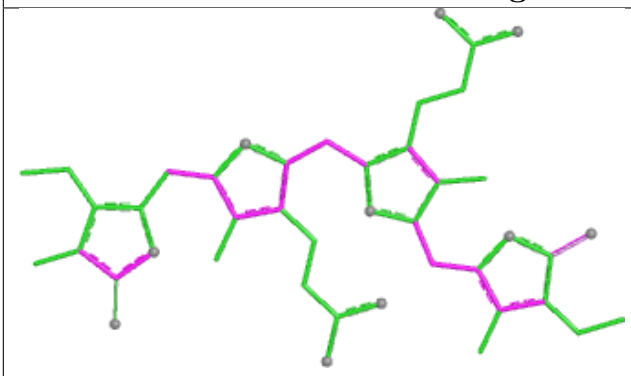


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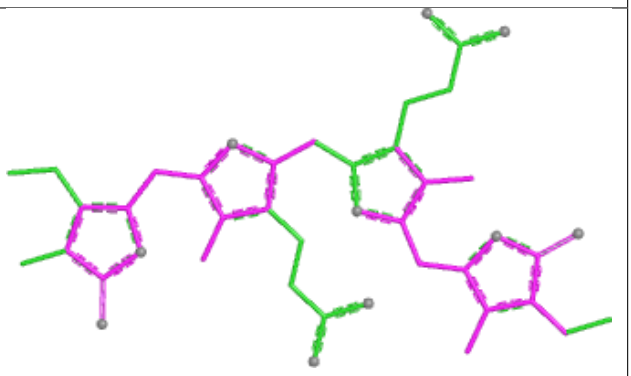


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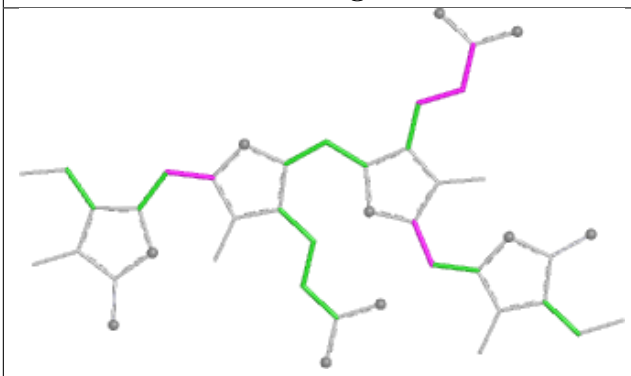
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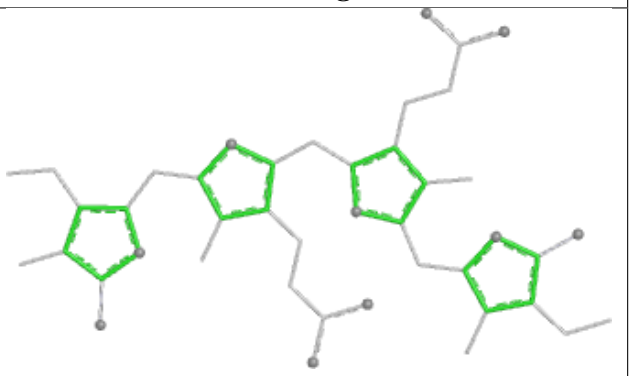
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Bond angles

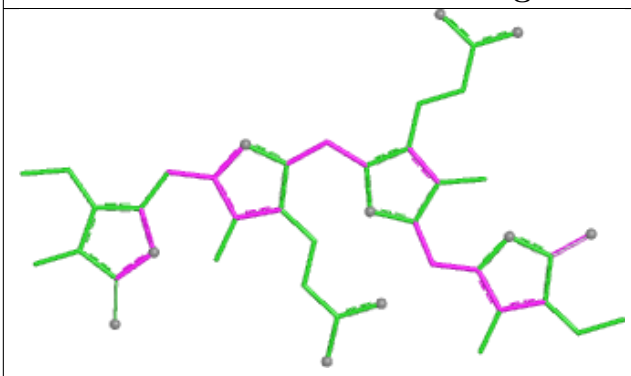


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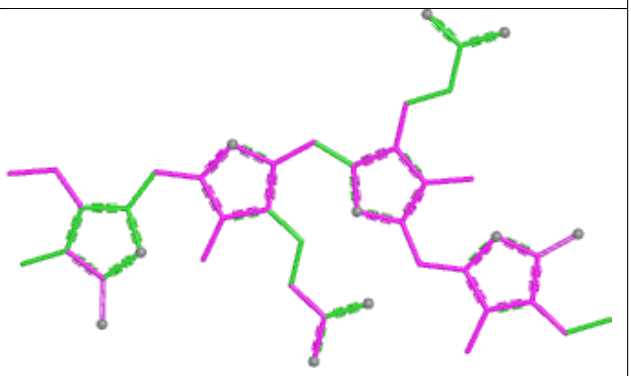


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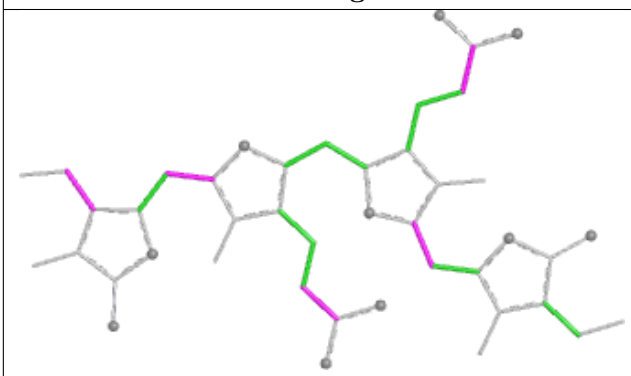
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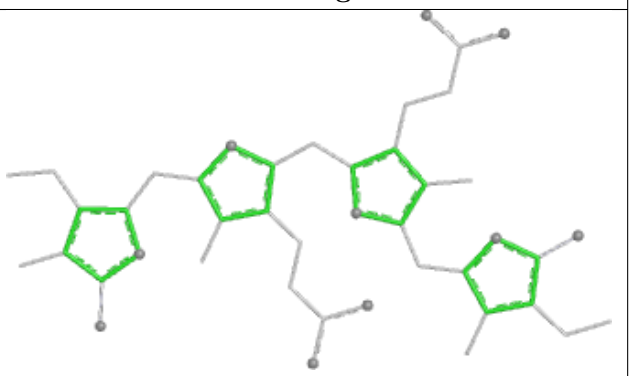
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Bond angles

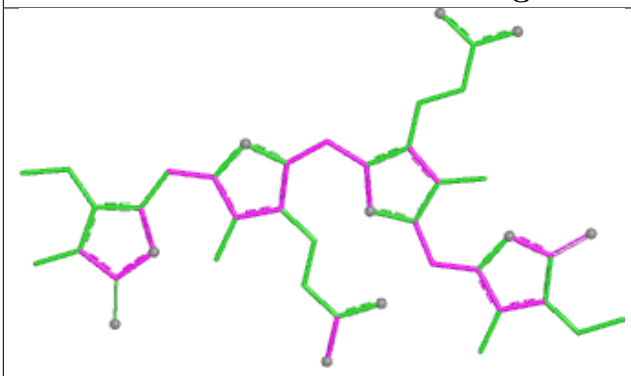


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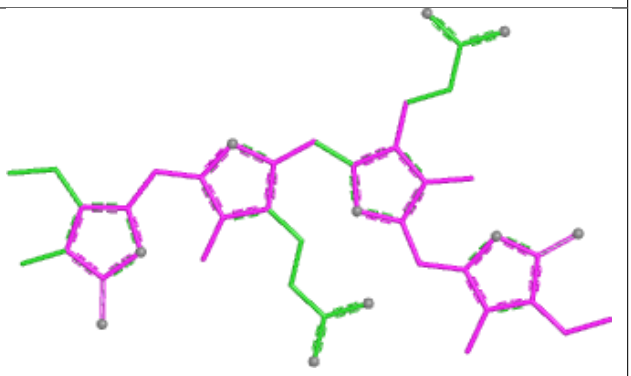


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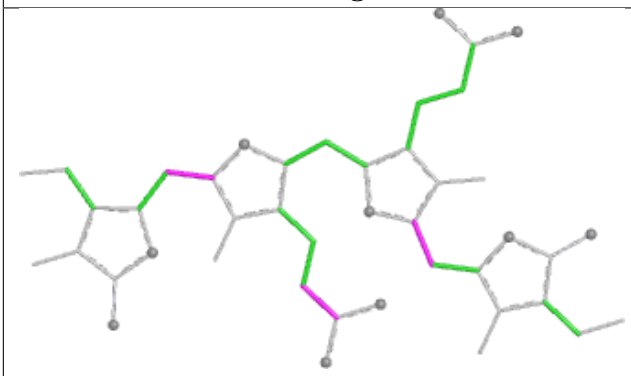
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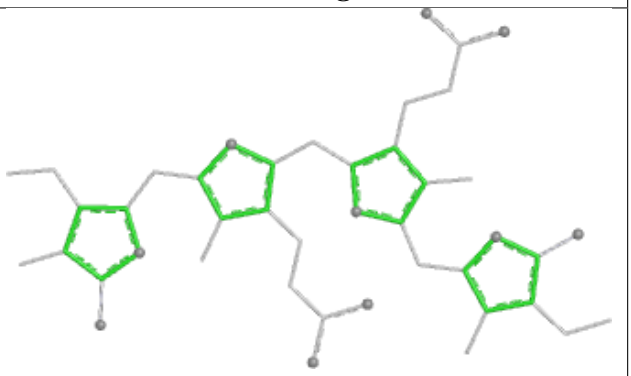
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Bond angles

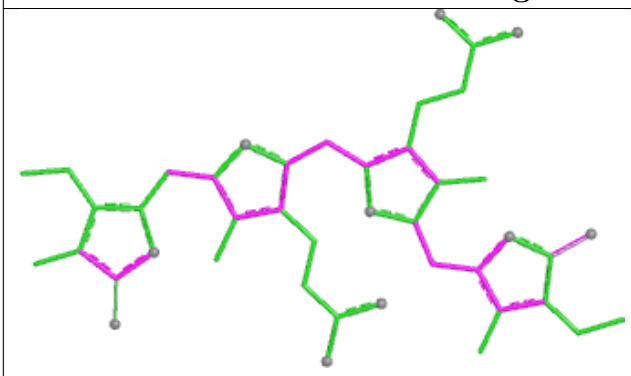


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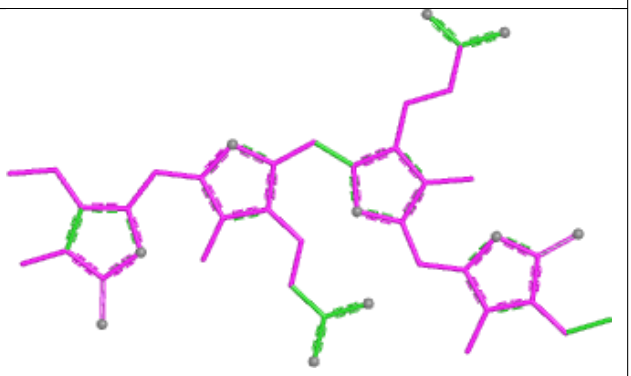


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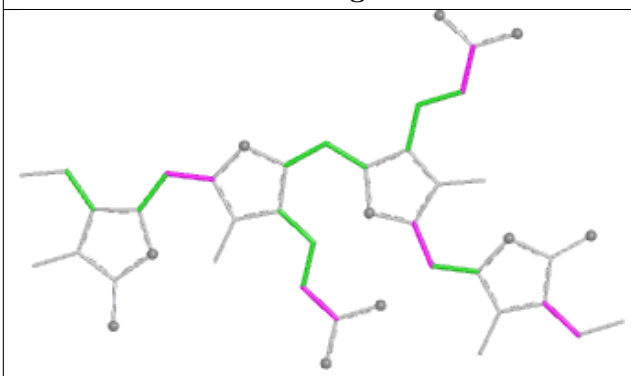
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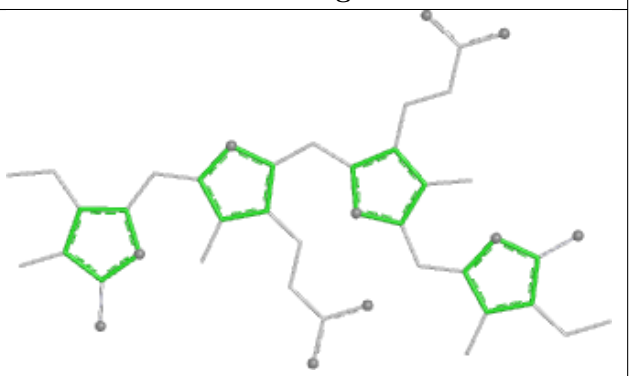
Bond lengths



Bond angles

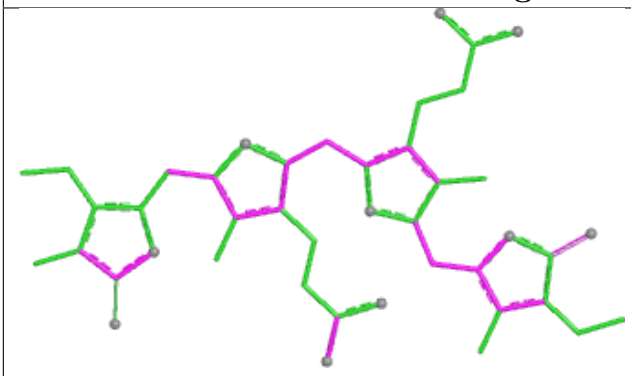


Torsions

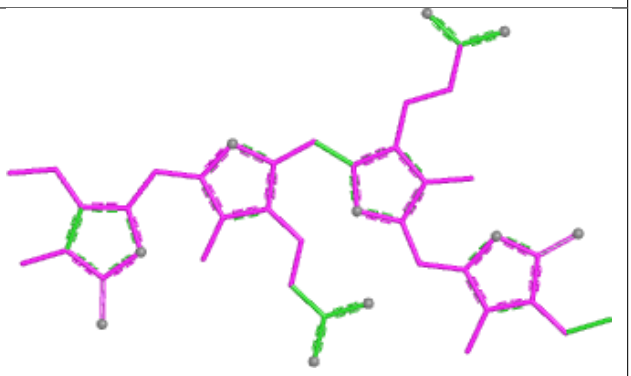


Rings

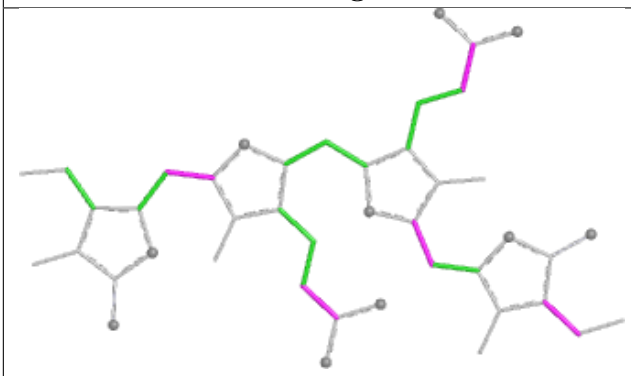
Ligand CYC E4 201



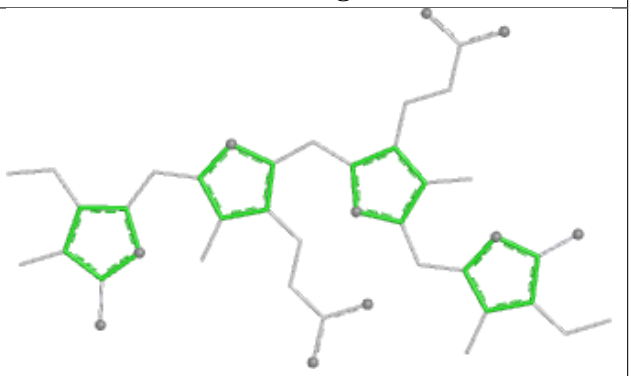
Bond lengths



Bond angles

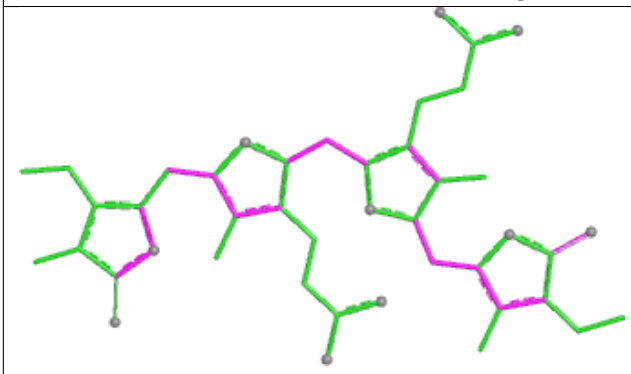


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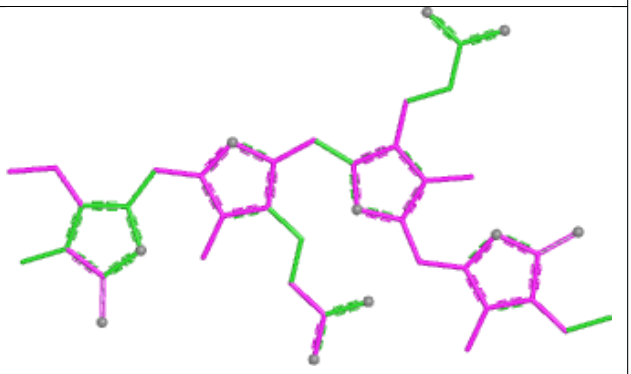


Rings

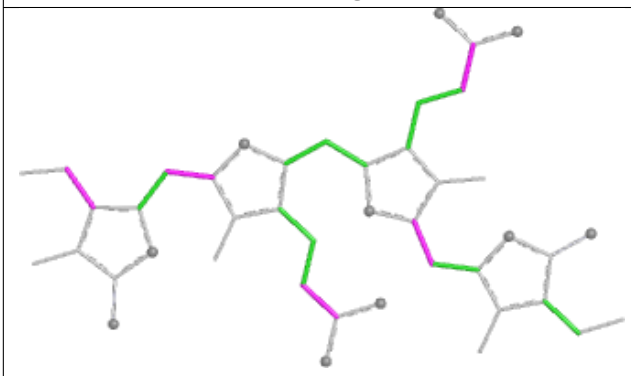
Ligand CYC H4 202



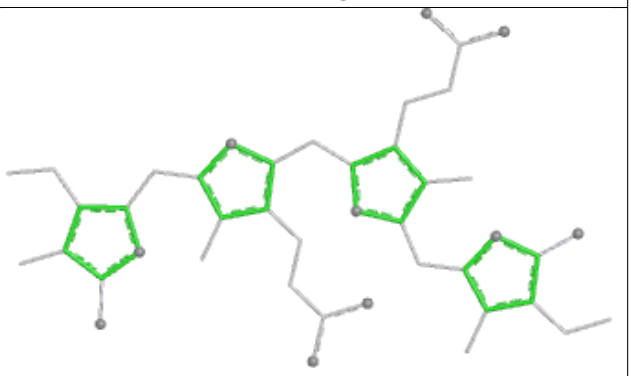
Bond lengths



Bond angles

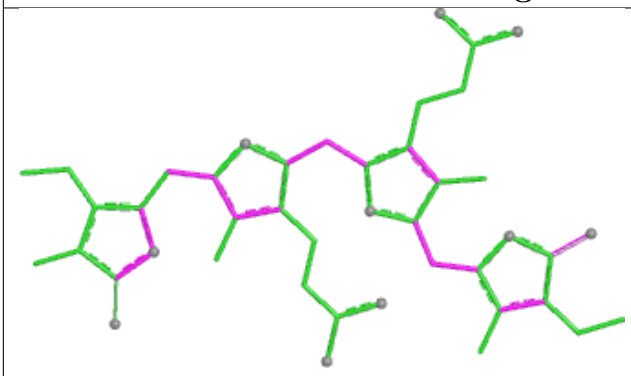


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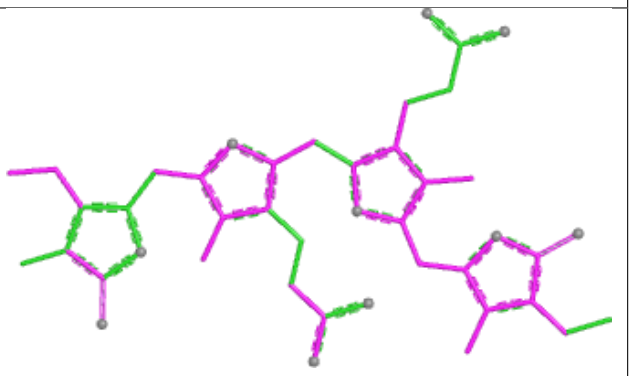


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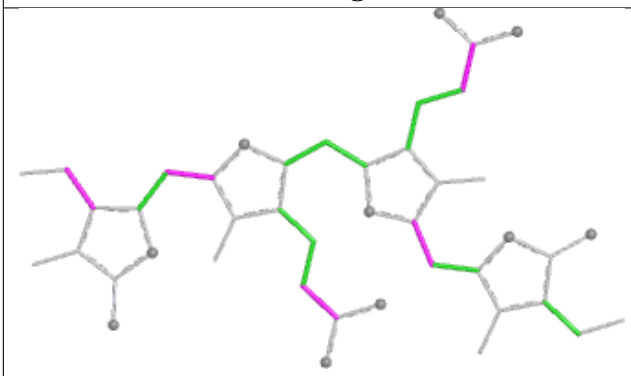
Ligand CYC F9 303



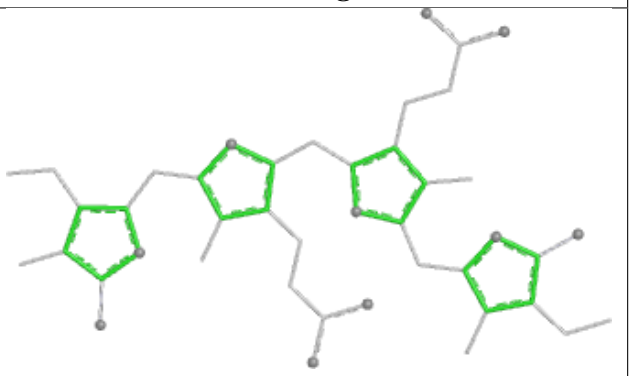
Bond lengths



Bond angles

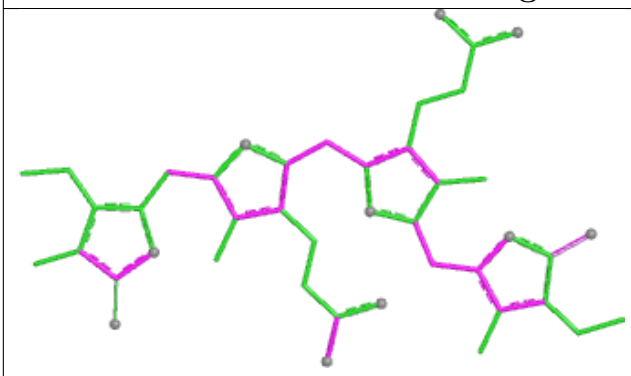


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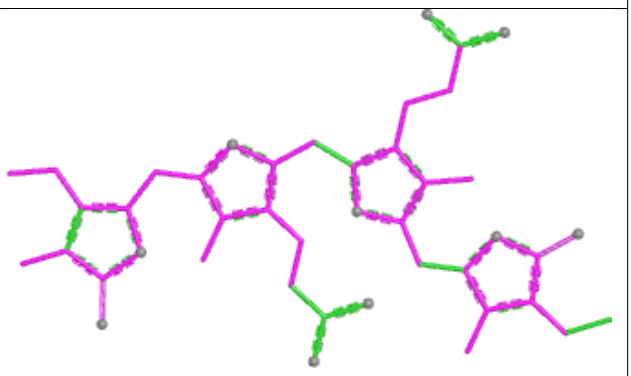


Rings

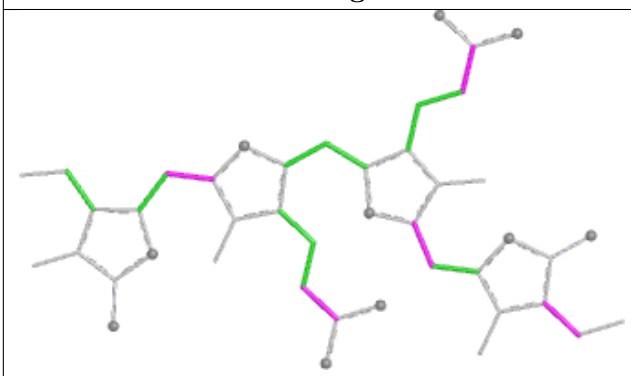
Ligand CYC I1 201



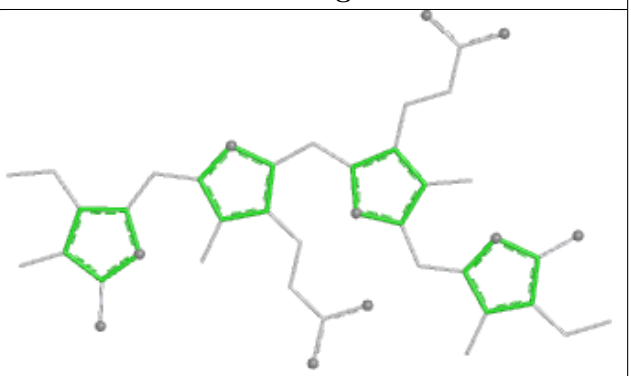
Bond lengths



Bond angles

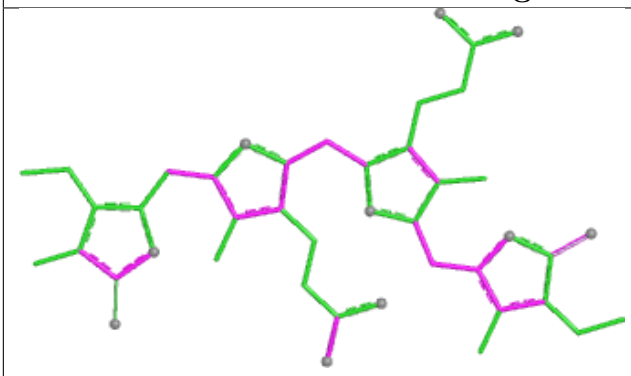


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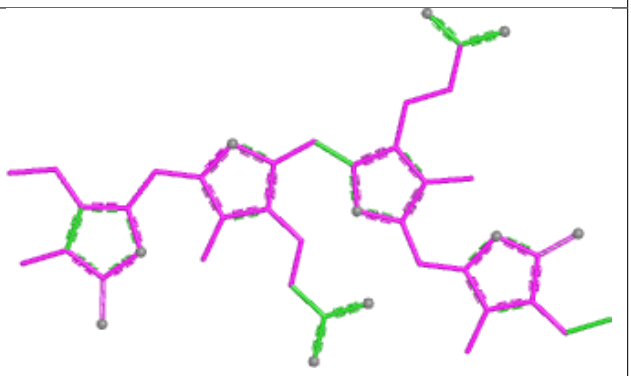


Rings

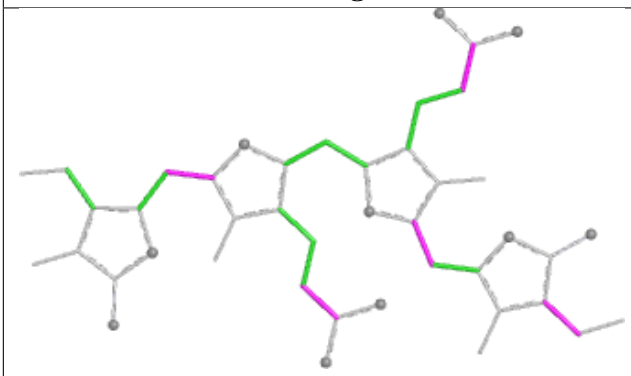
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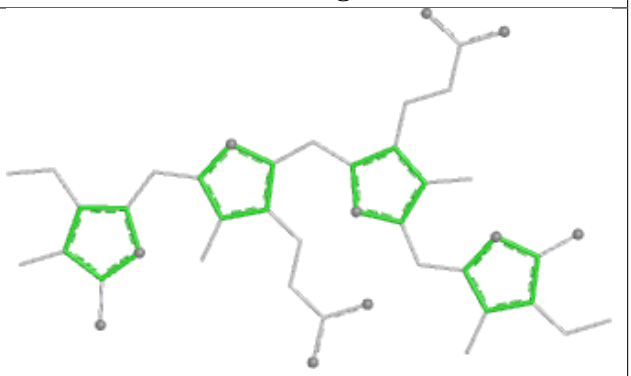
Bond lengths



Bond angles

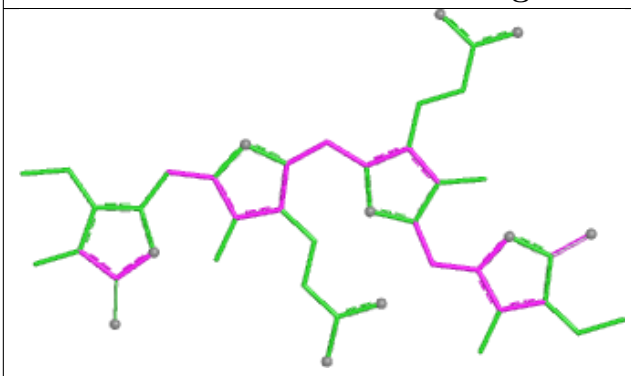


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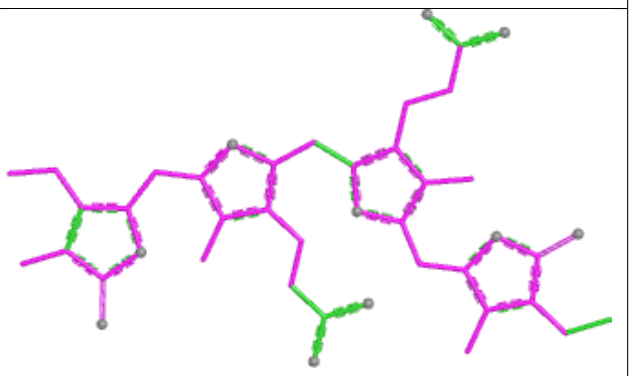


Rings

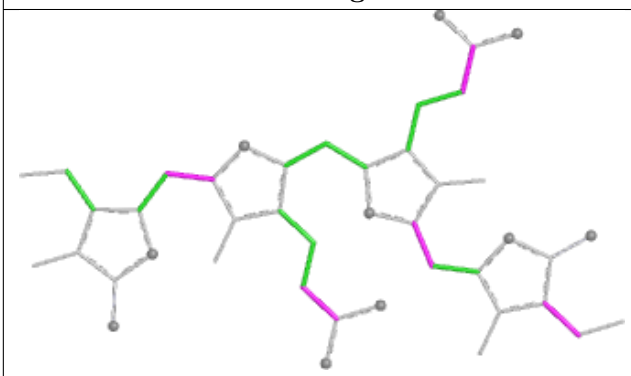
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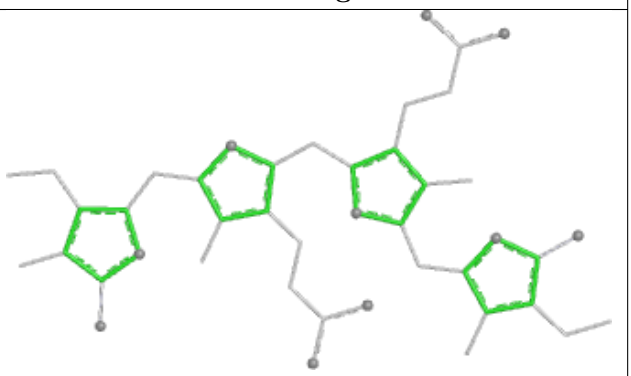
Bond lengths



Bond angles

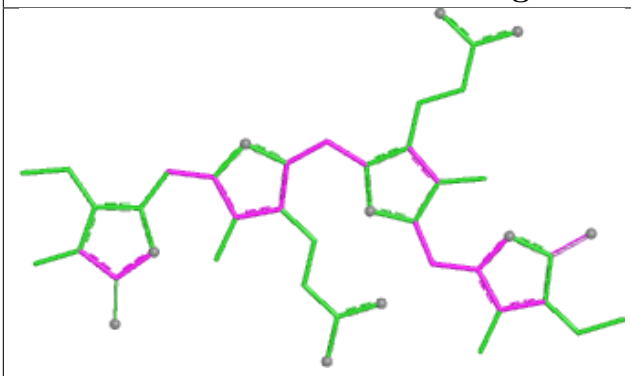


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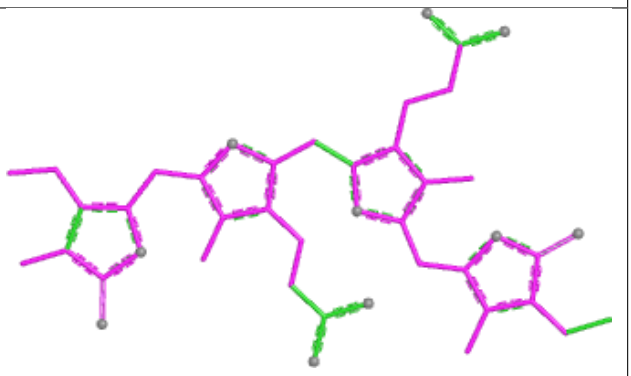


Rings

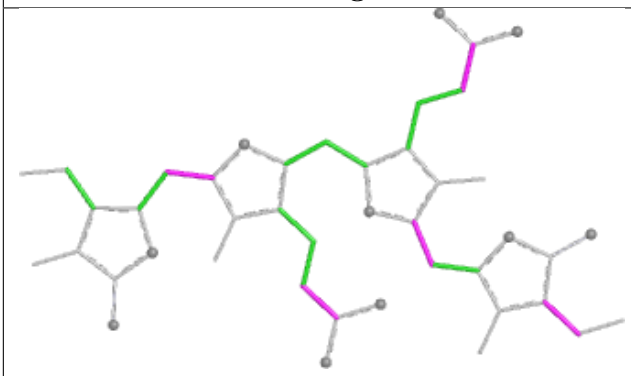
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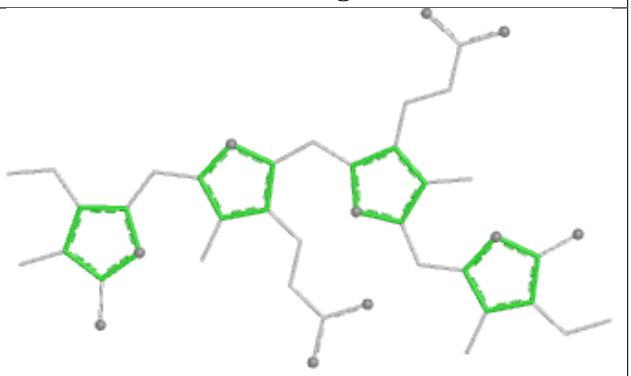
Bond lengths



Bond angles

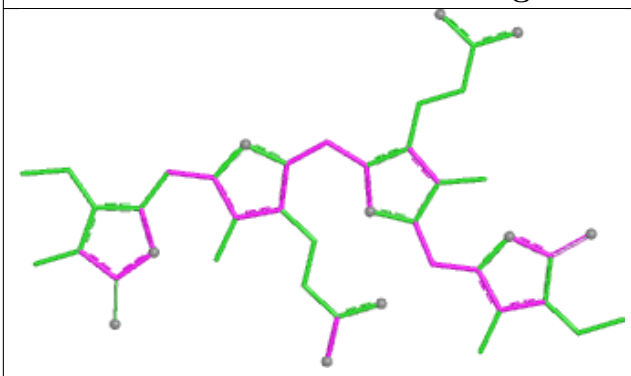


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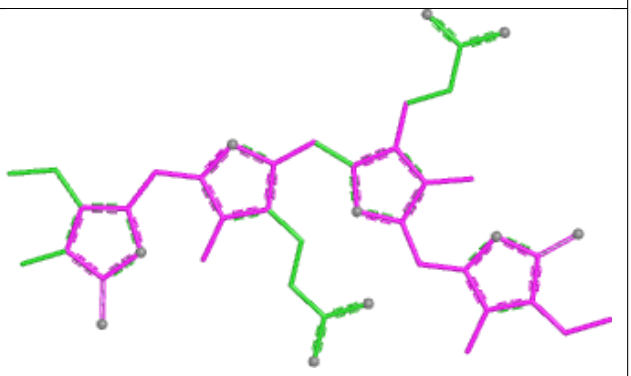


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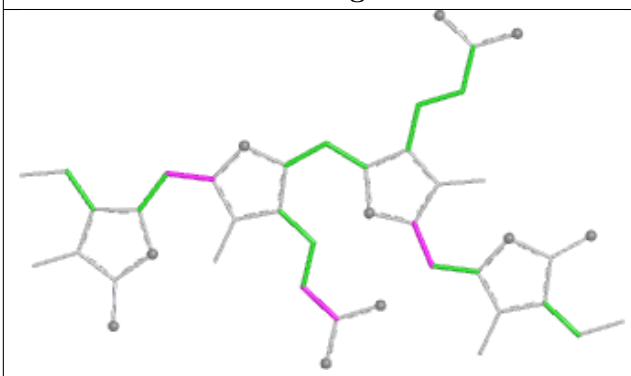
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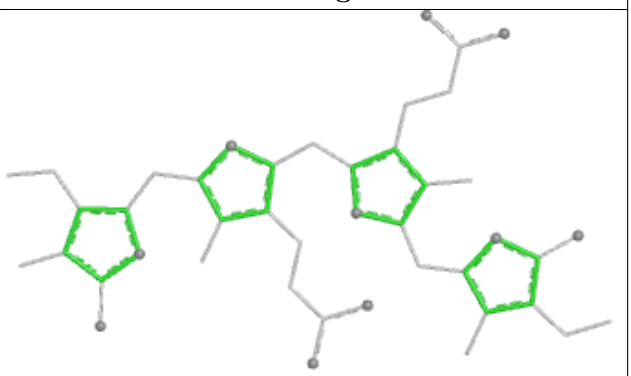
Bond lengths



Bond angles

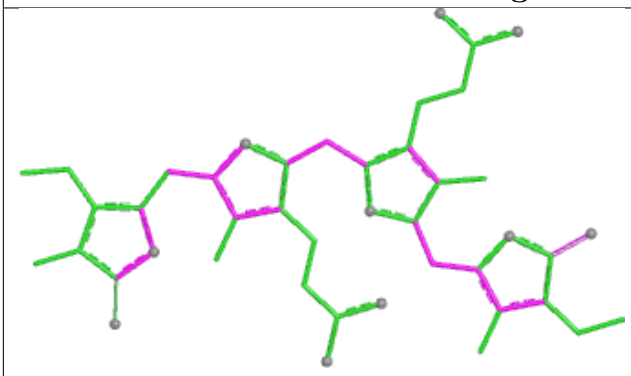


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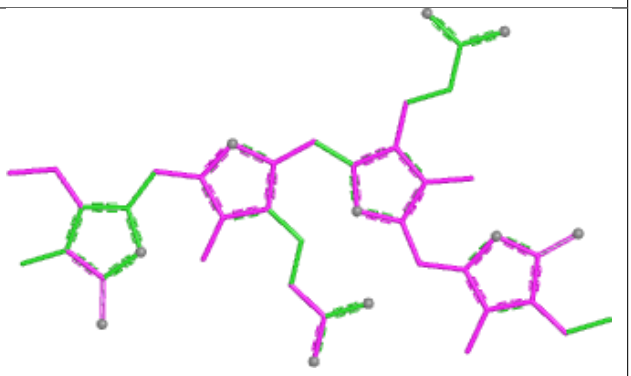


Rings

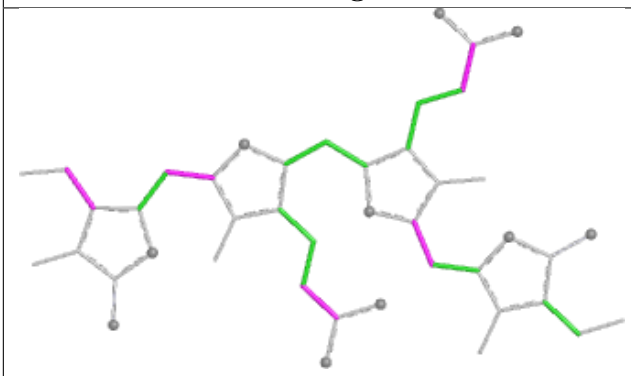
Ligand CYC TA 302



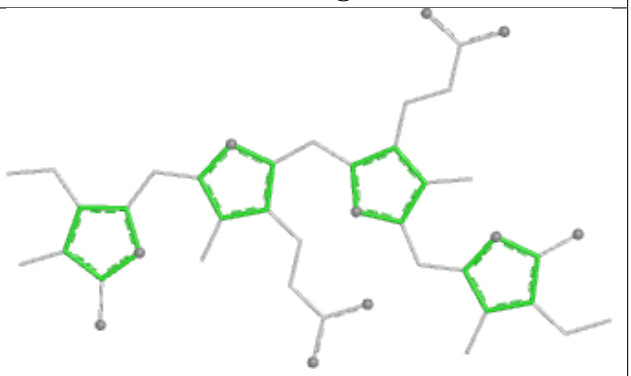
Bond lengths



Bond angles

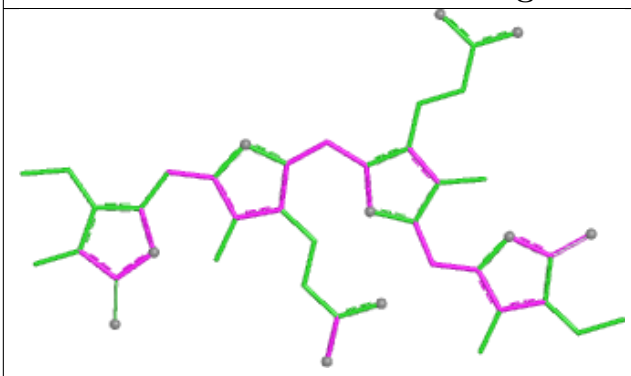


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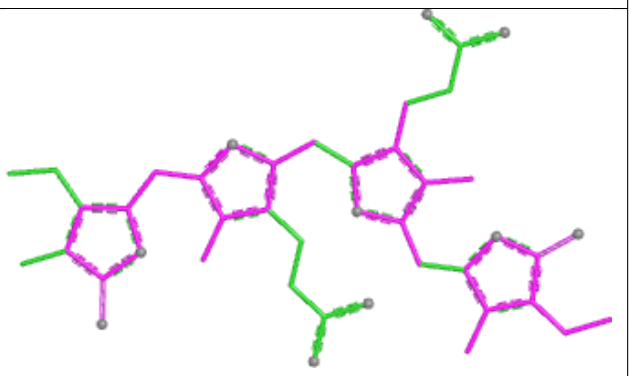


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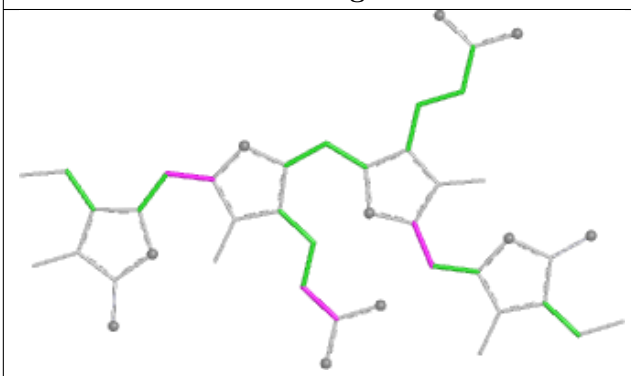
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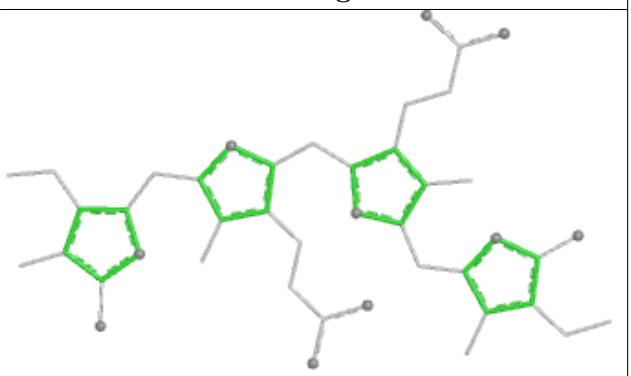
Bond lengths



Bond angles

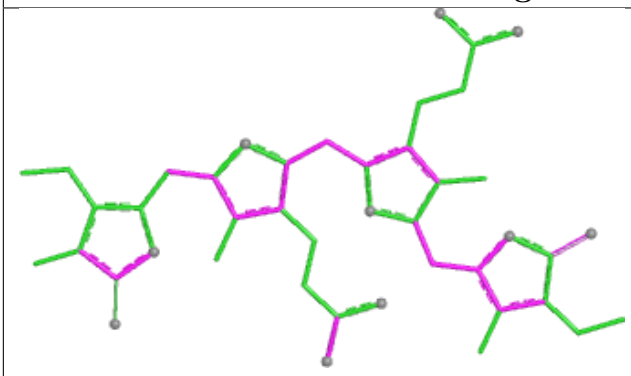


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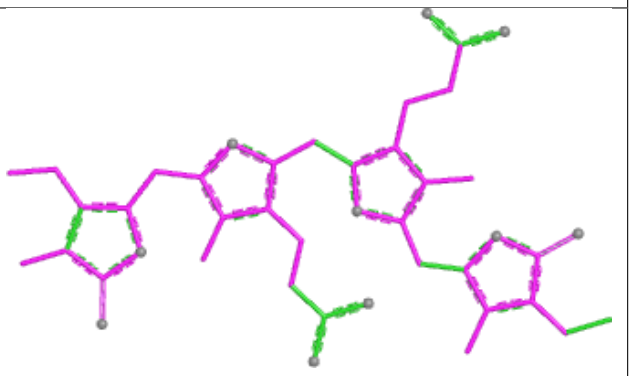


Rings

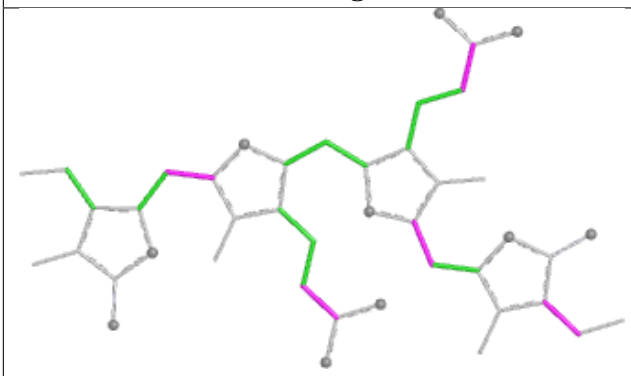
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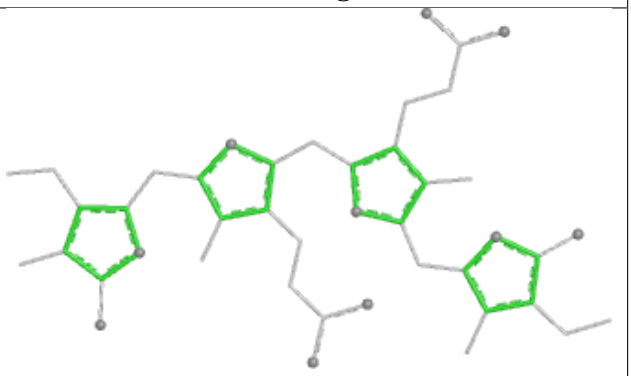
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Bond angles

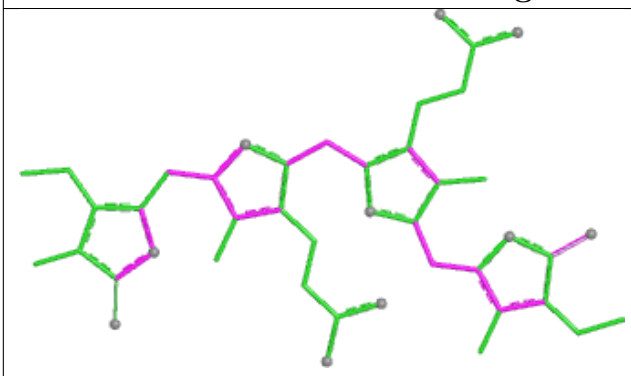


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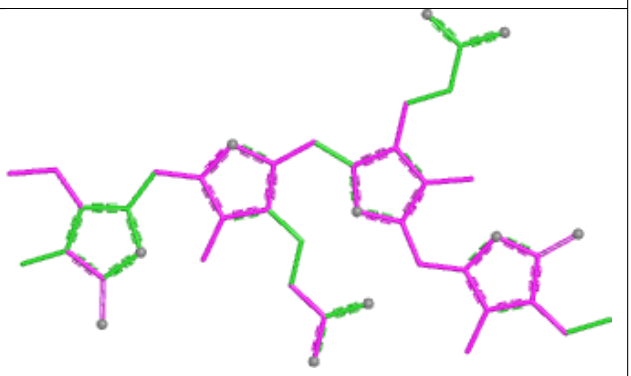


Rings

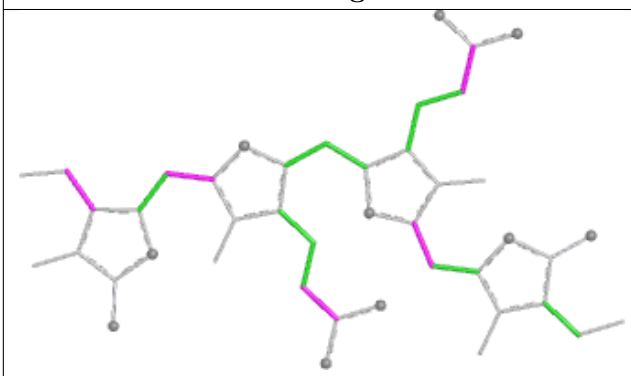
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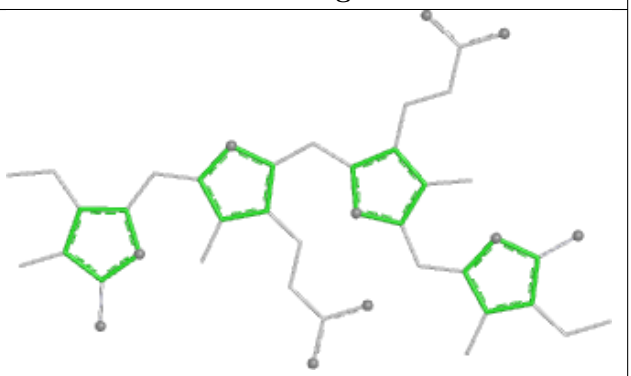
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Bond angles

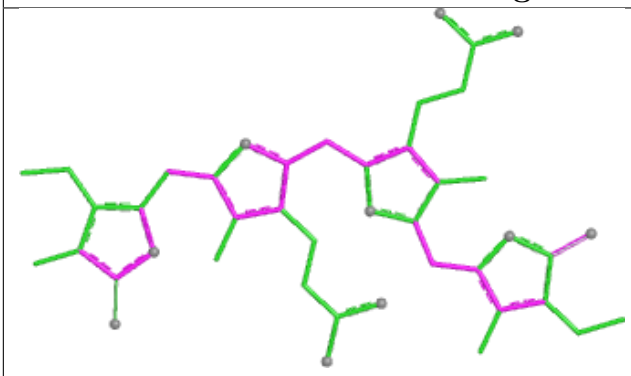


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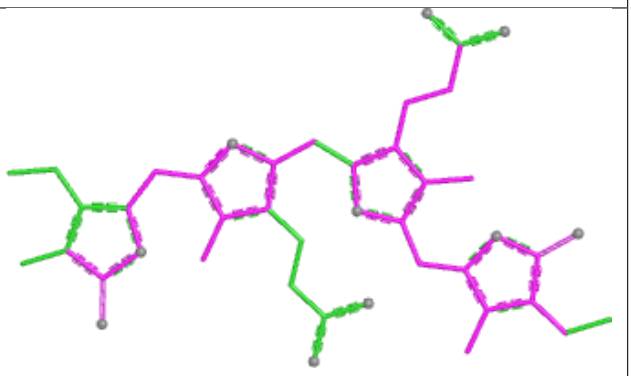


Rings

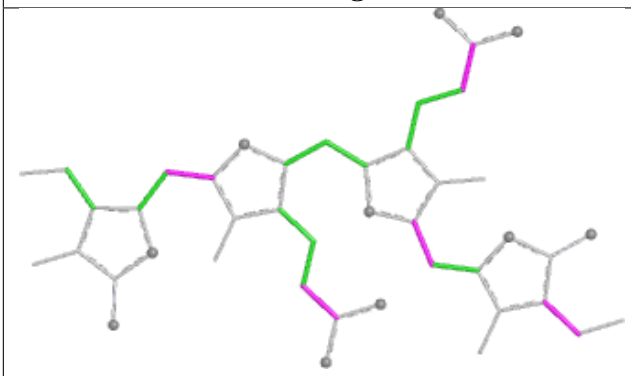
Ligand CYC B7 201



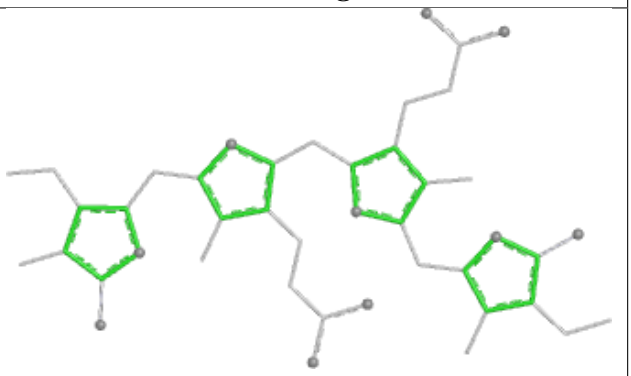
Bond lengths



Bond angles

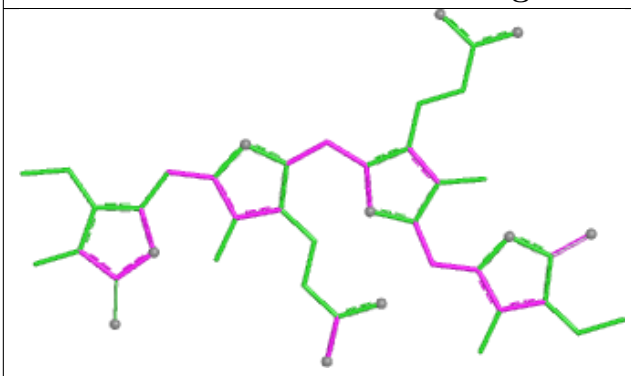


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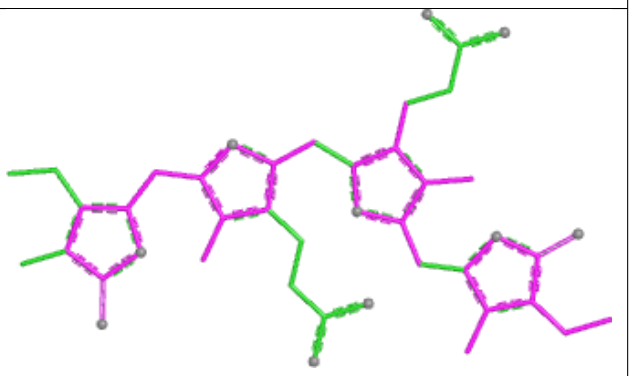


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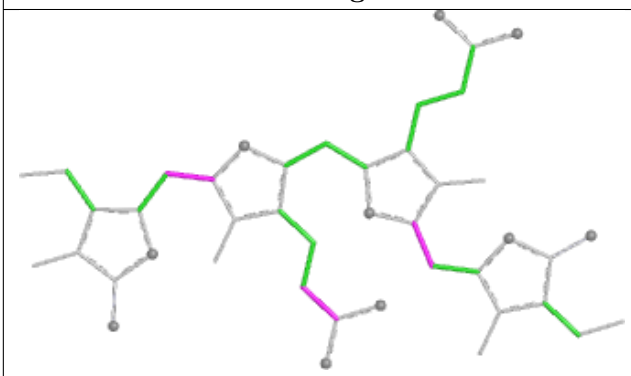
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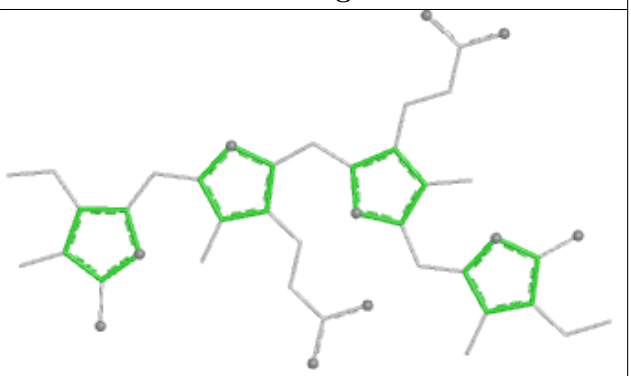
Bond lengths



Bond angles

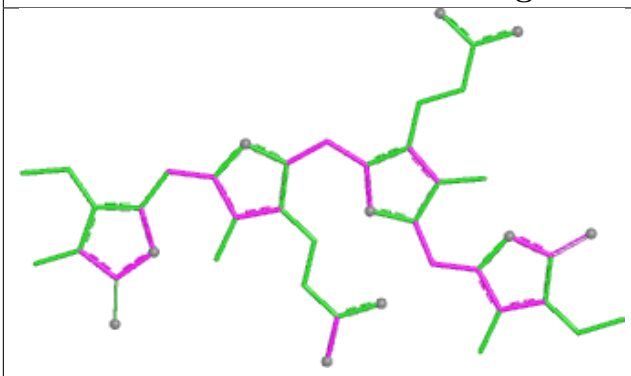


Torsions

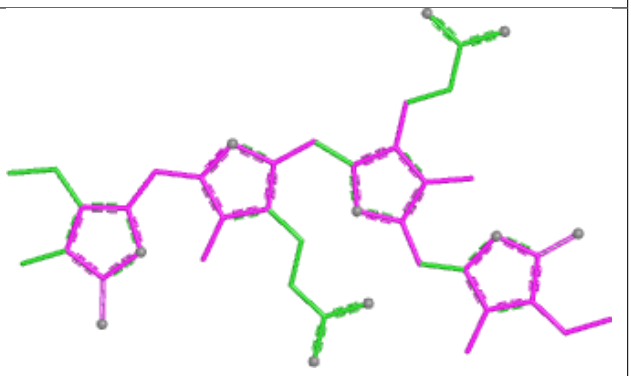


Rings

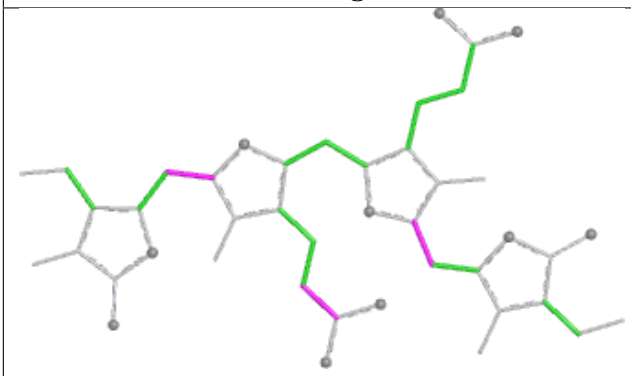
Ligand CYC L6 201



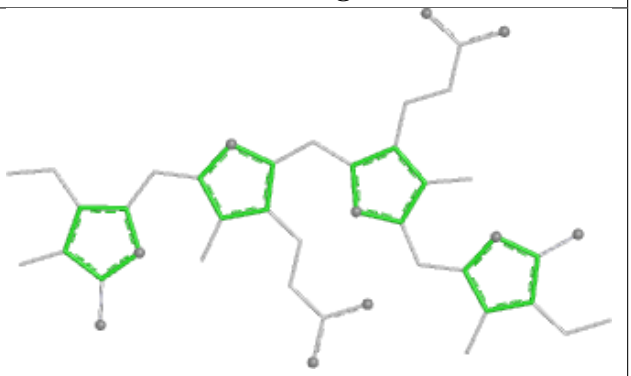
Bond lengths



Bond angles

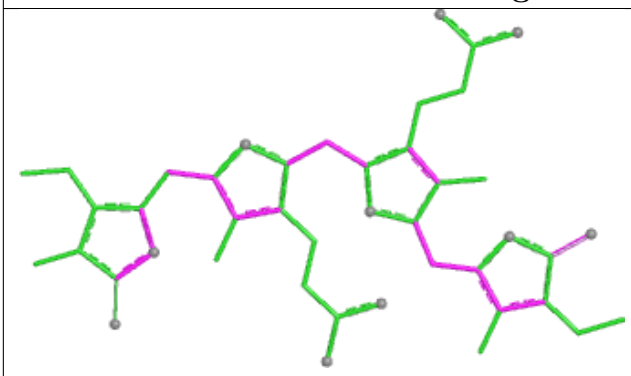


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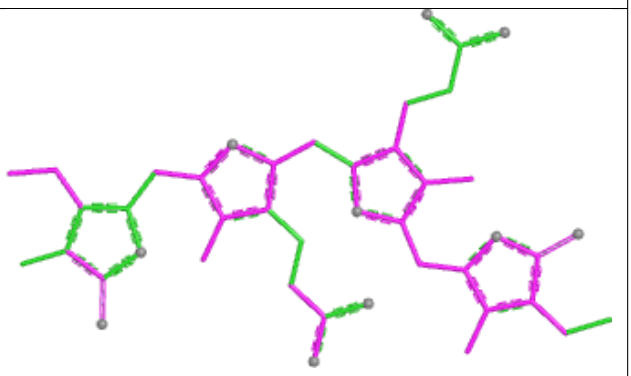


Rings

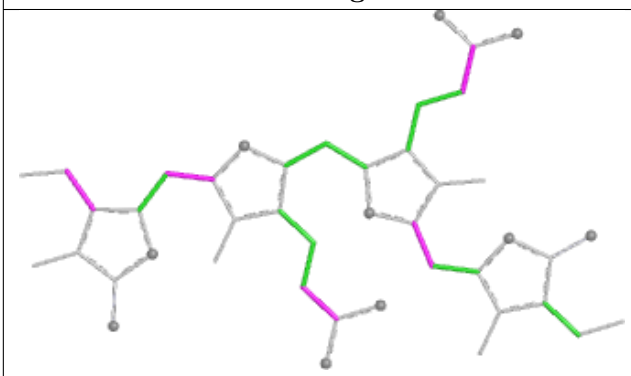
Ligand CYC U4 202



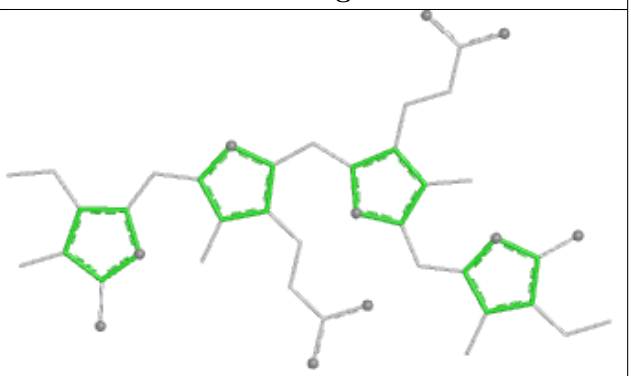
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Bond angles

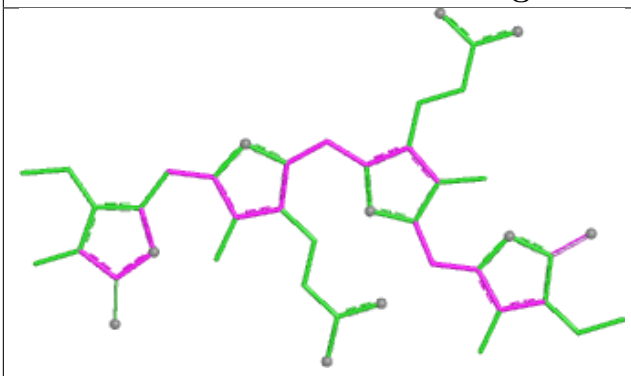


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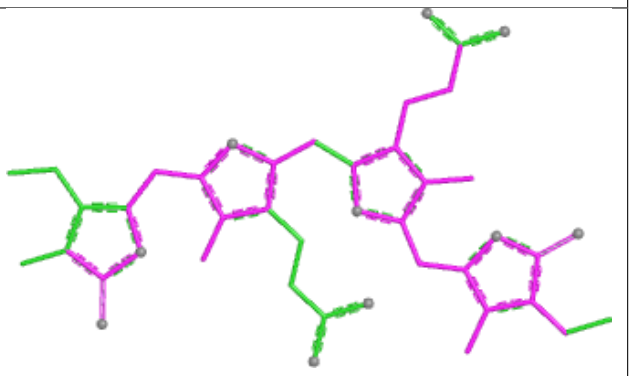


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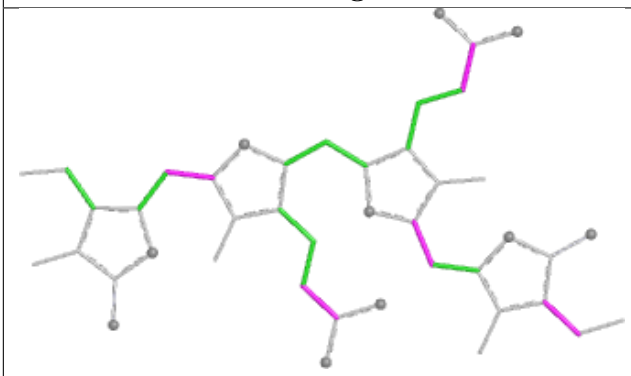
Ligand CYC D5 201



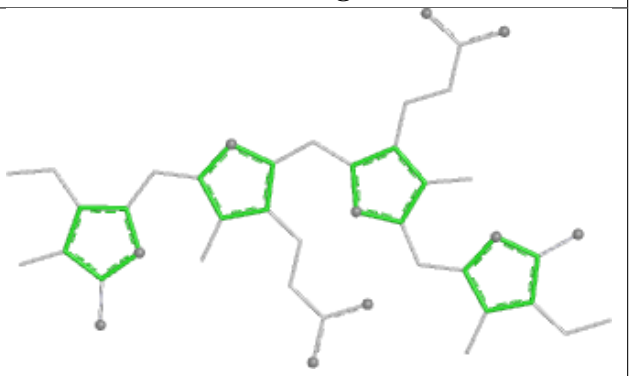
Bond lengths



Bond angles

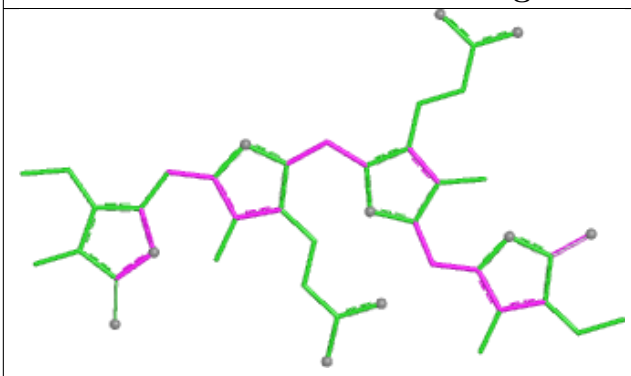


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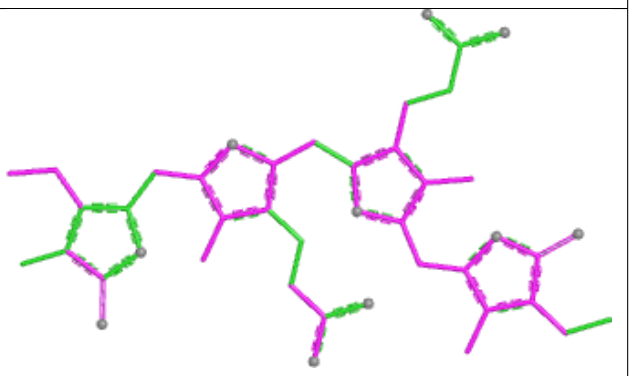


Rings

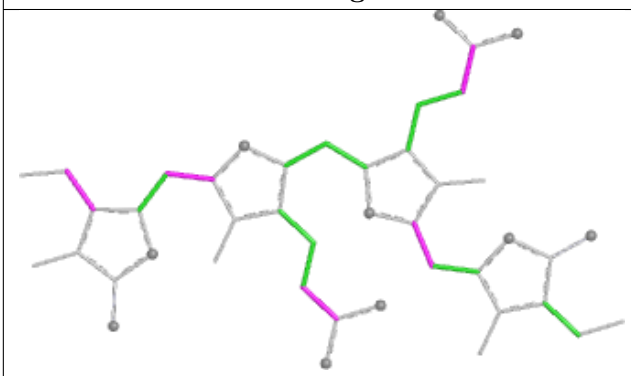
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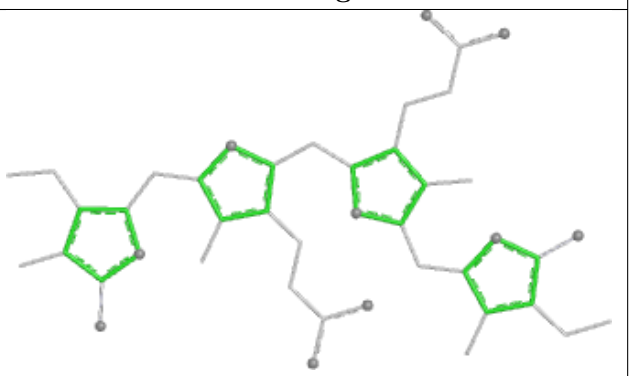
Bond lengths



Bond angles

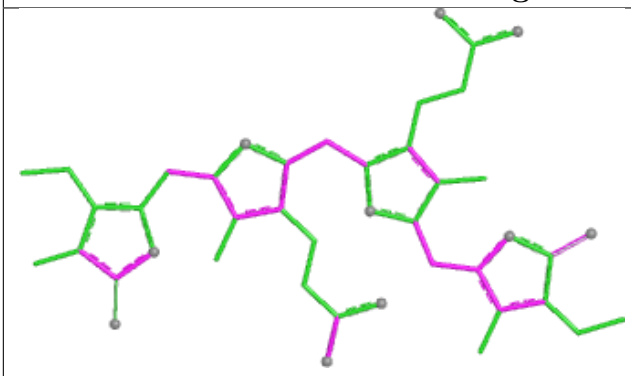


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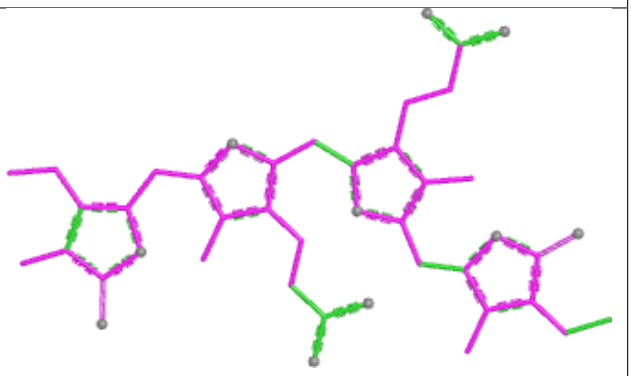


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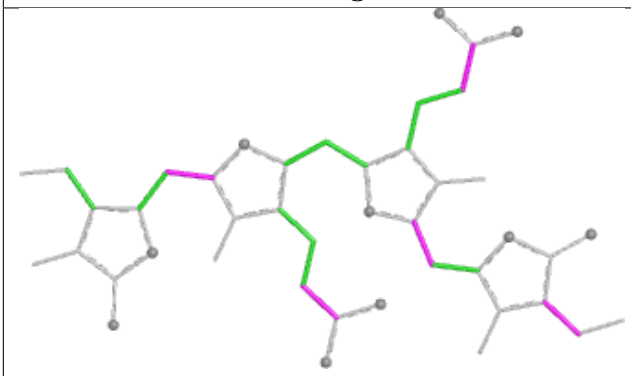
Ligand CYC G6 201



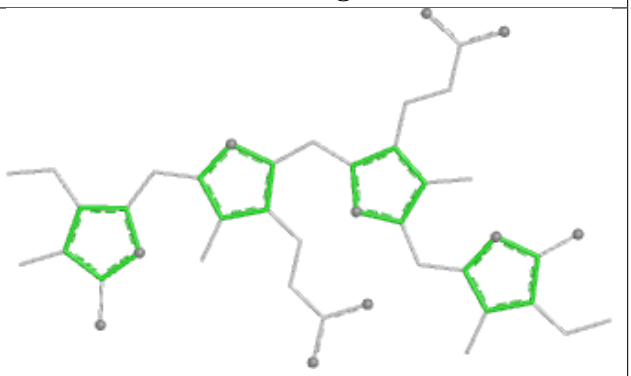
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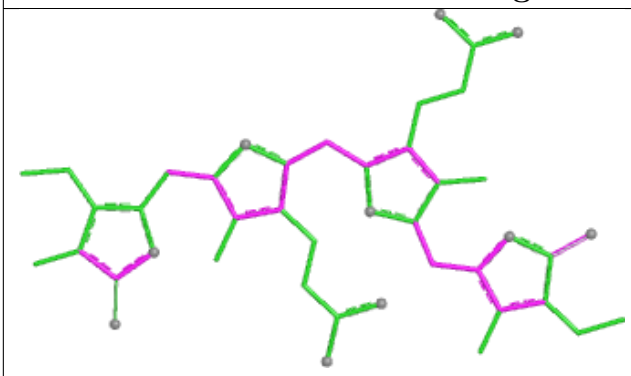


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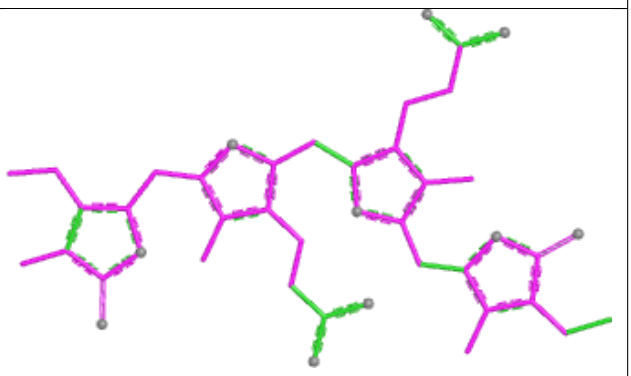


Rings

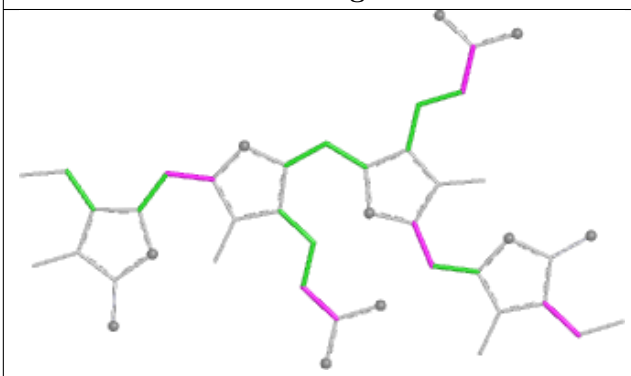
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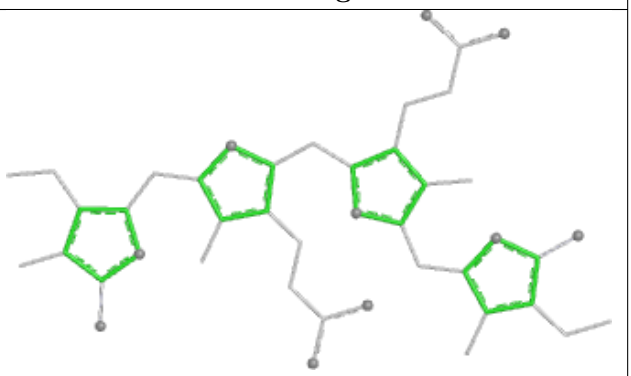
Bond lengths



Bond angles

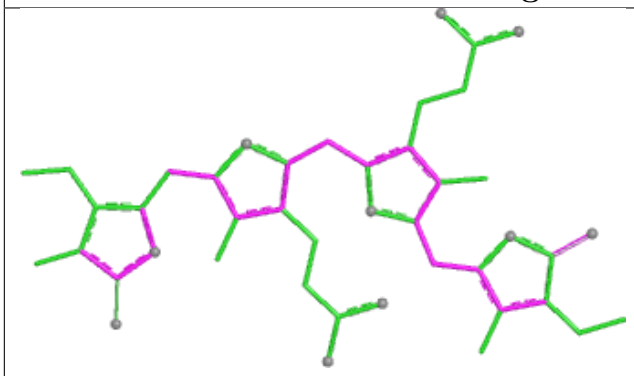


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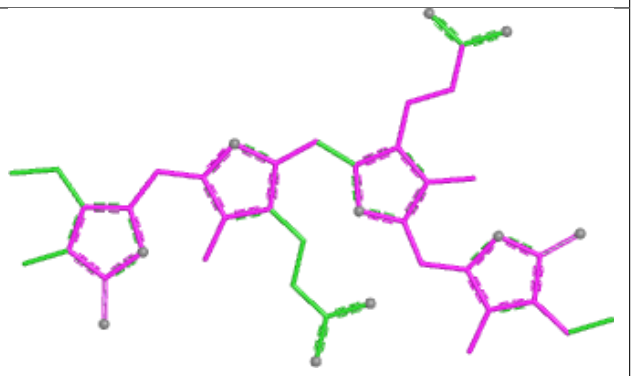


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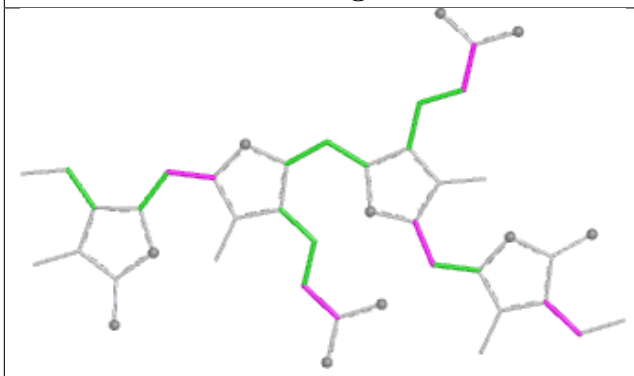
Ligand CYC f7 201



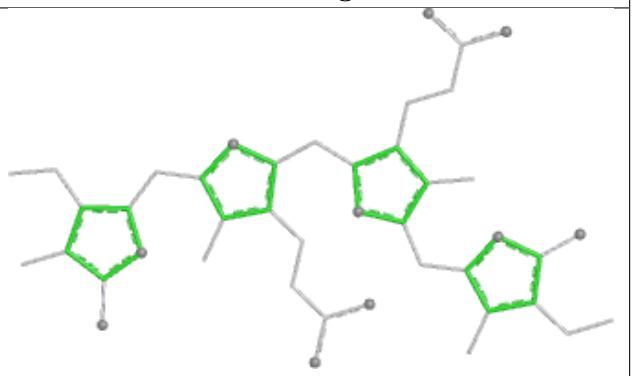
Bond lengths



Bond angles

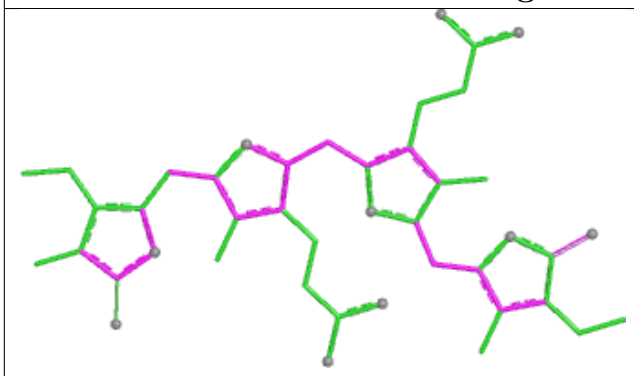


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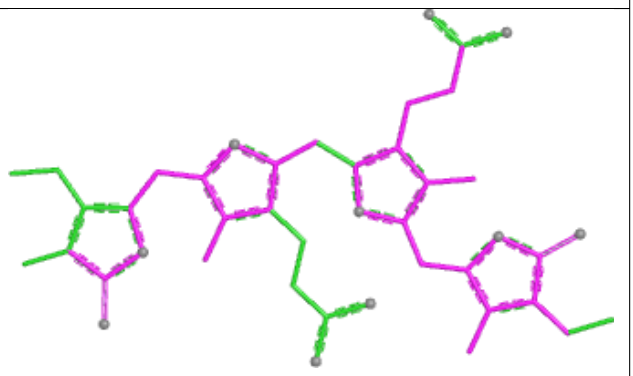


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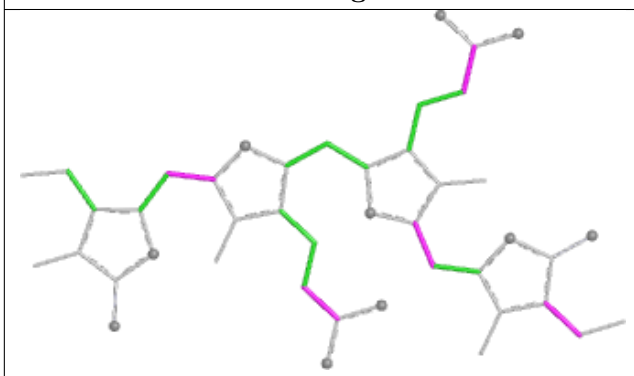
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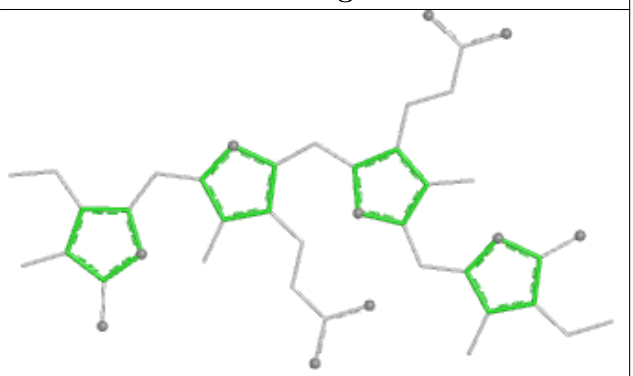
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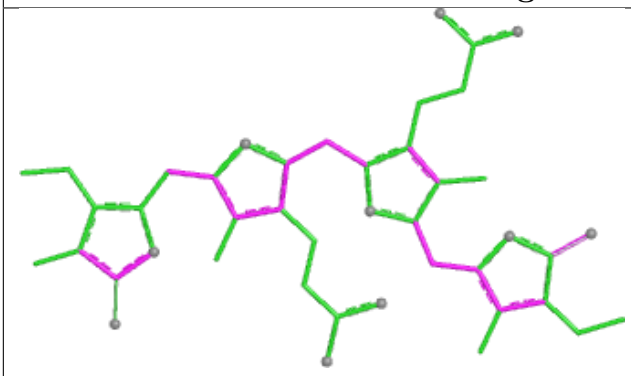


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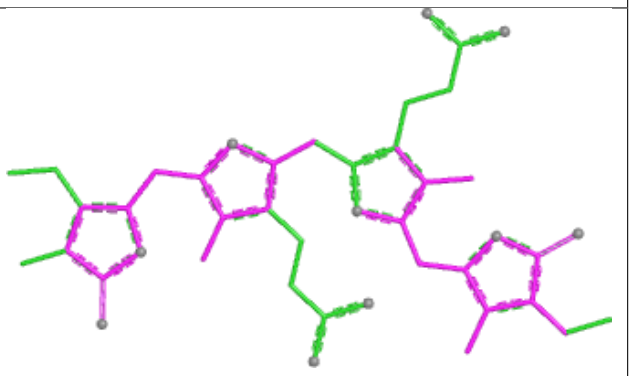


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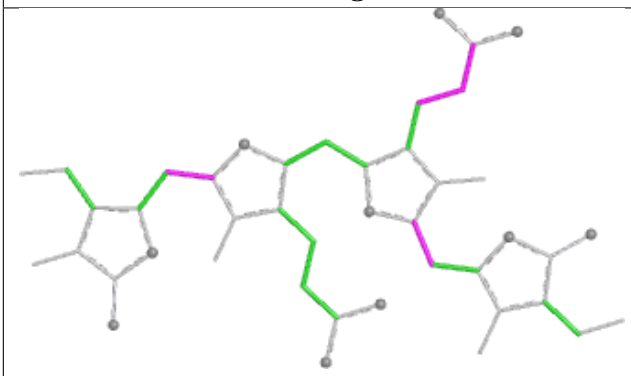
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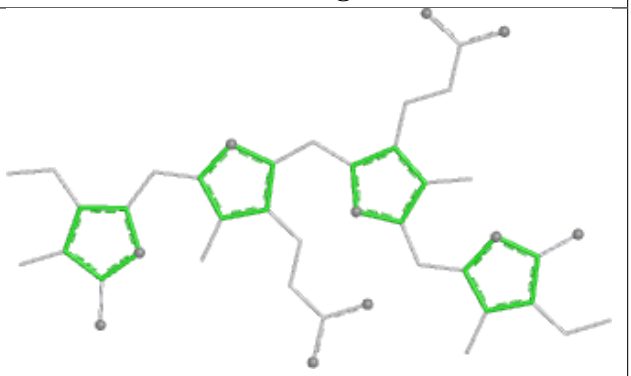
Bond lengths



Bond angles

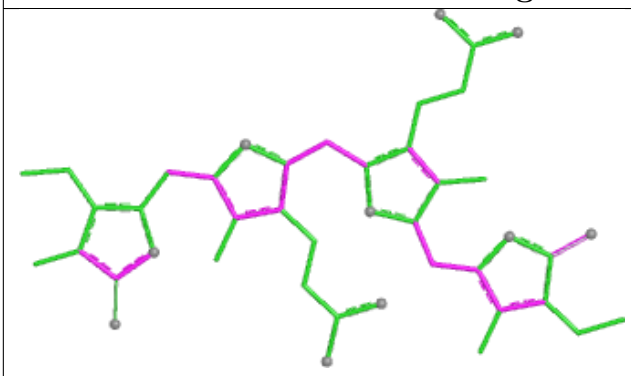


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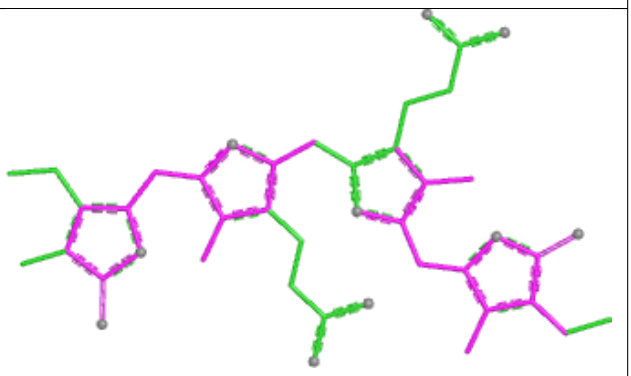


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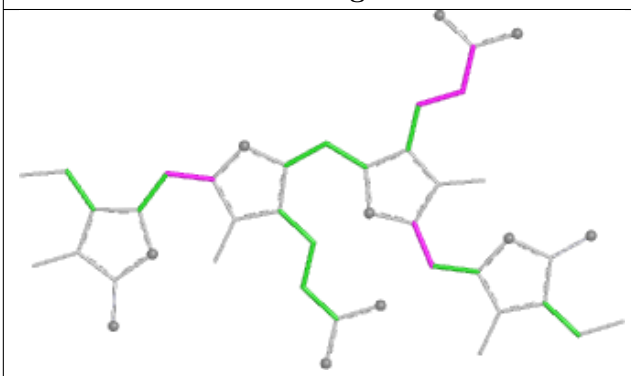
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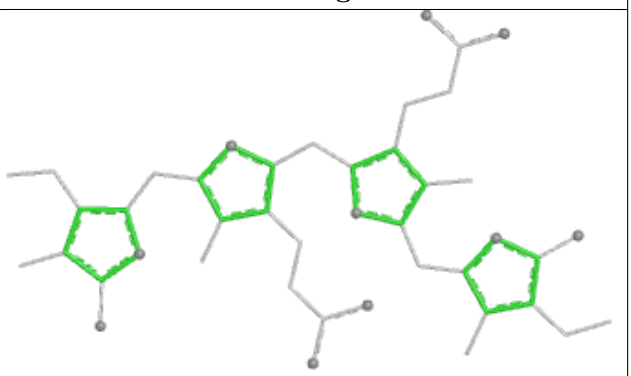
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Bond angles

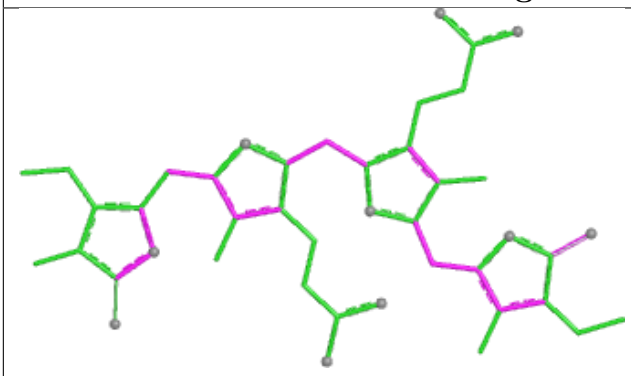


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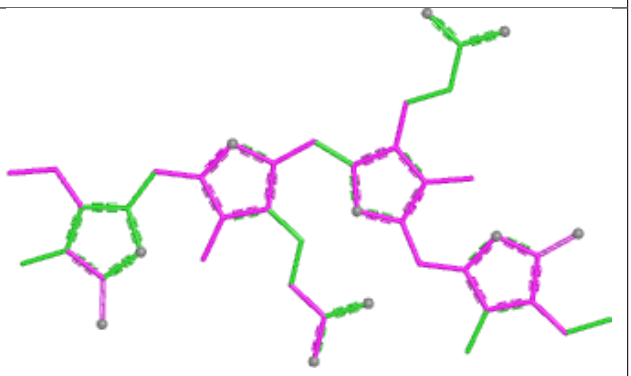


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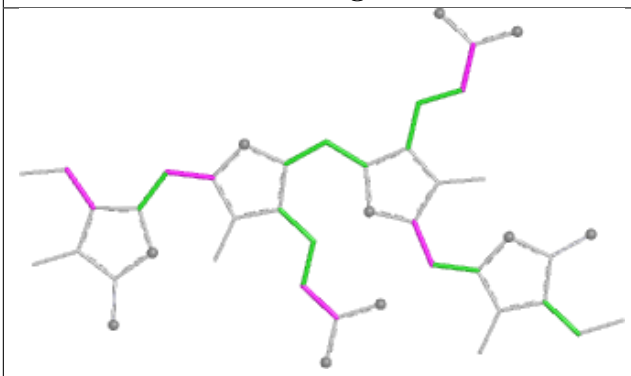
Ligand CYC L8 201



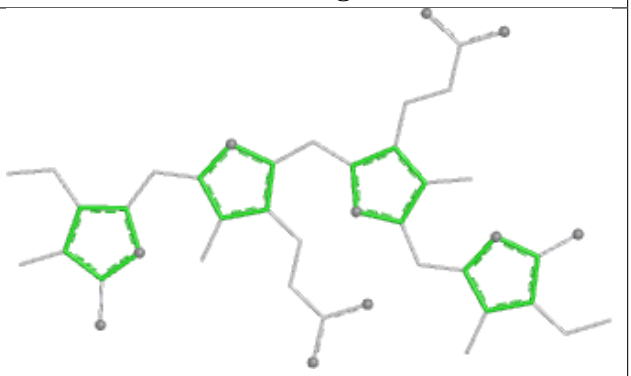
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Bond angles

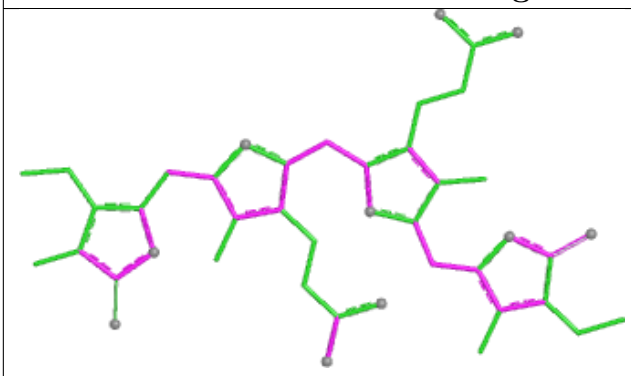


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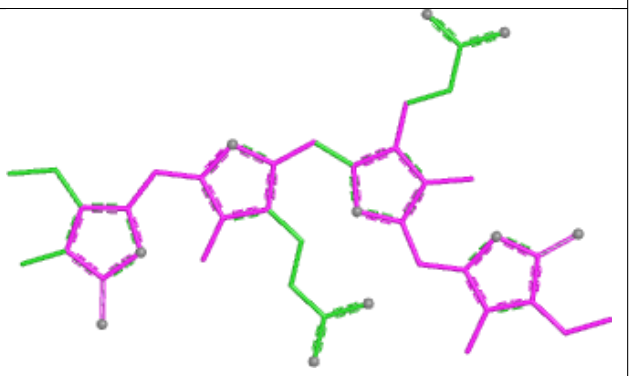


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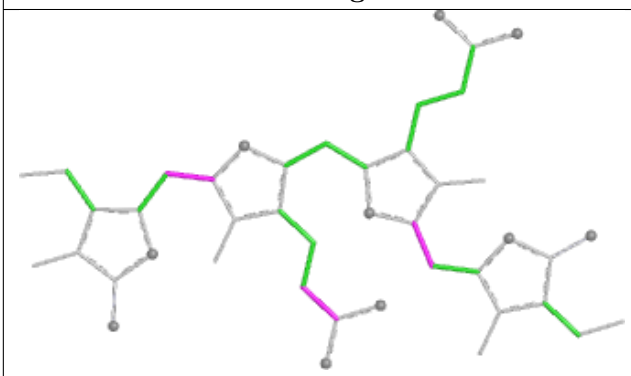
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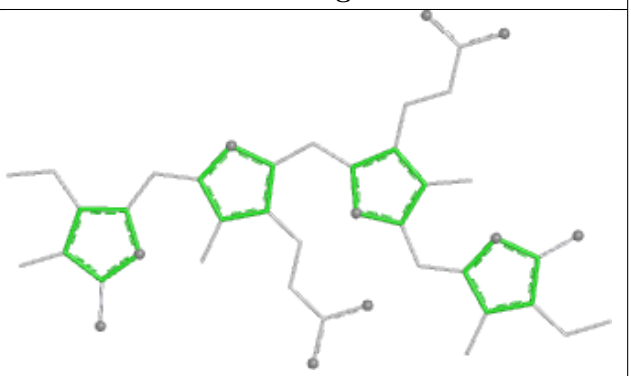
Bond lengths



Bond angles

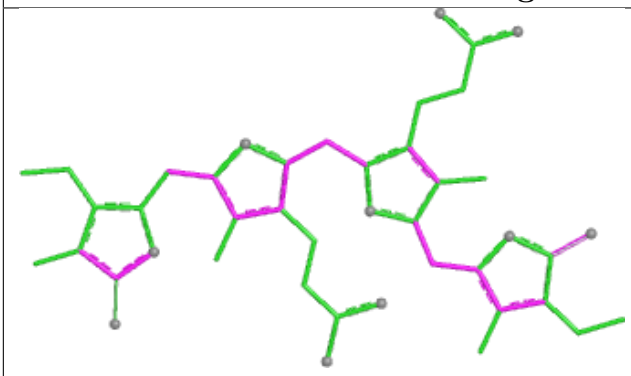


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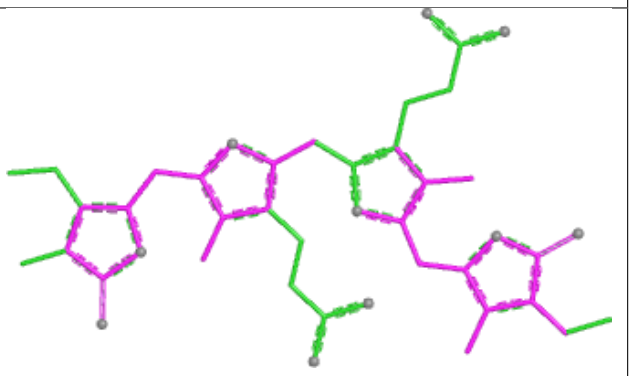


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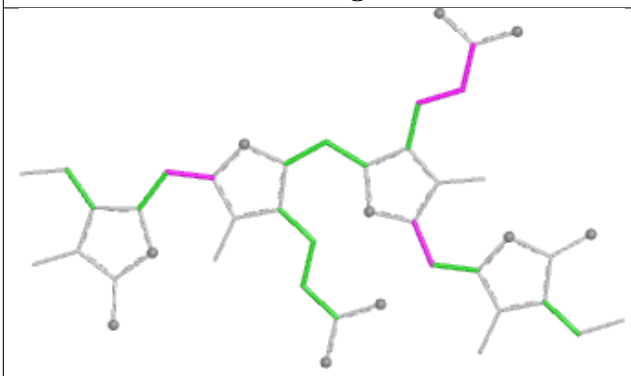
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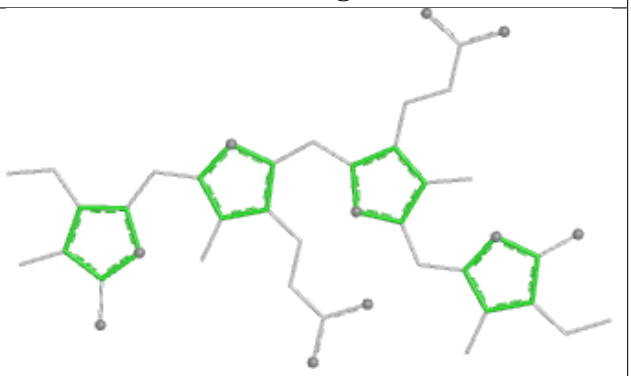
Bond lengths



Bond angles

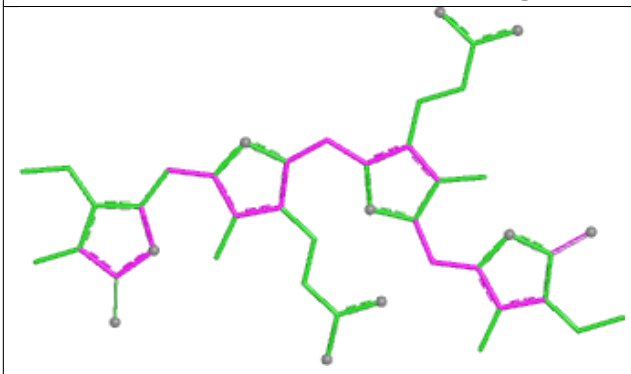


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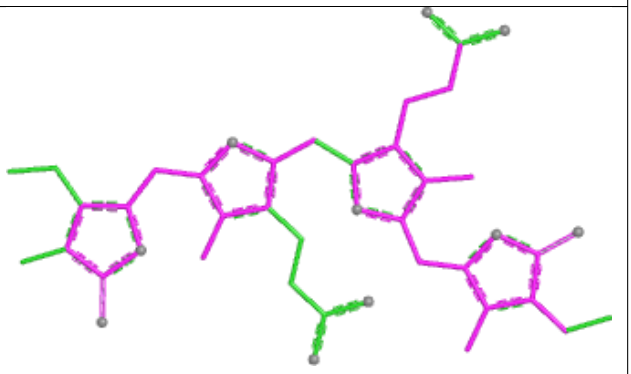


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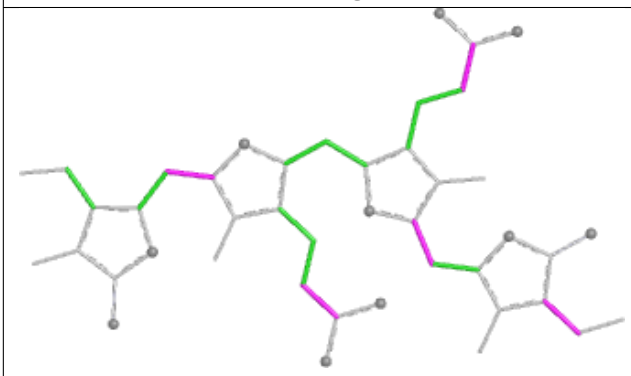
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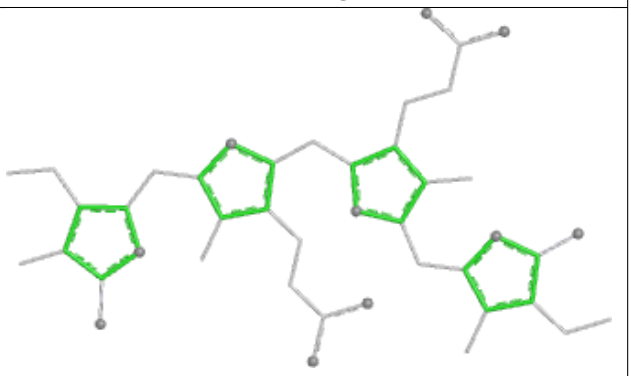
Bond lengths



Bond angles

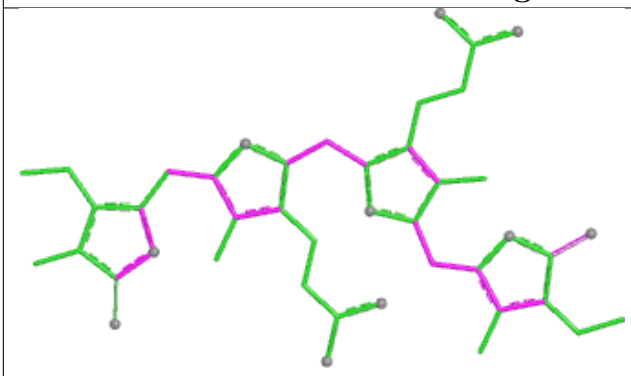


Torsions

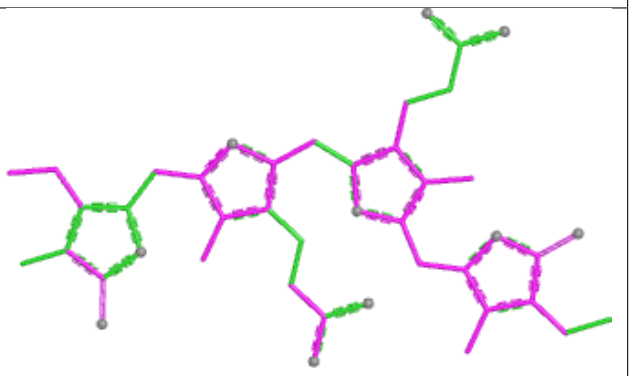


Rings

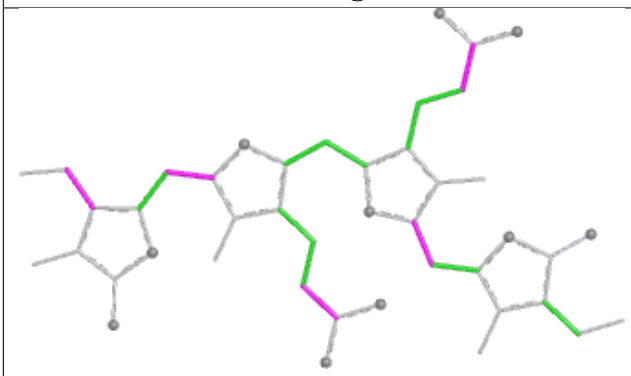
Ligand CYC P1 202



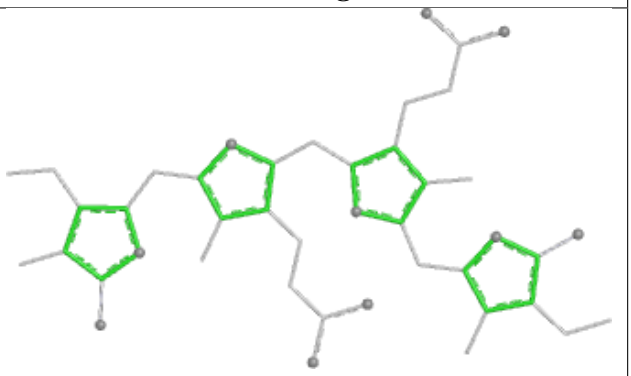
Bond lengths



Bond angles

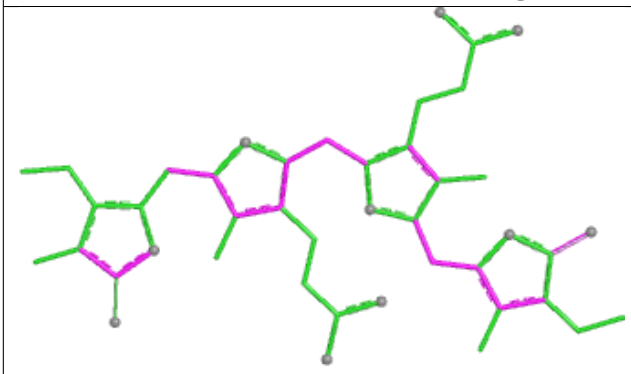


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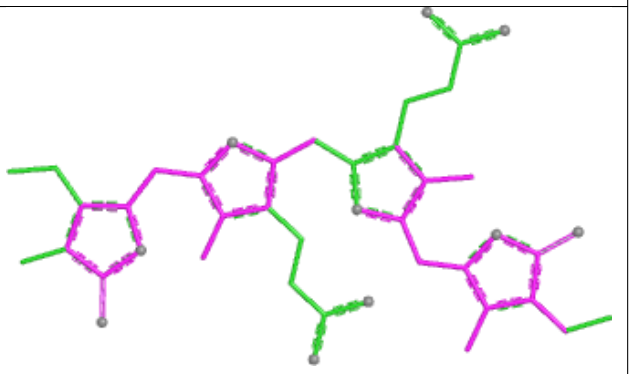


Rings

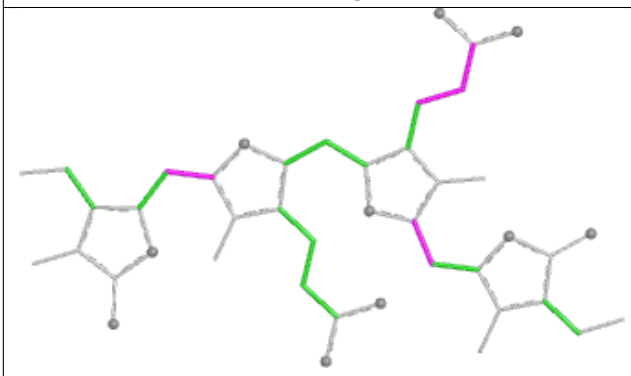
Ligand CYC K5 201



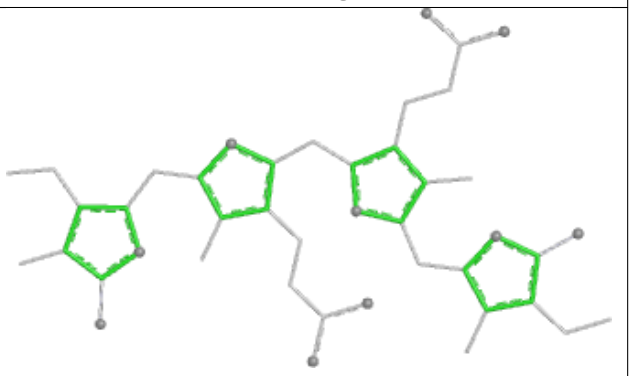
Bond lengths



Bond angles

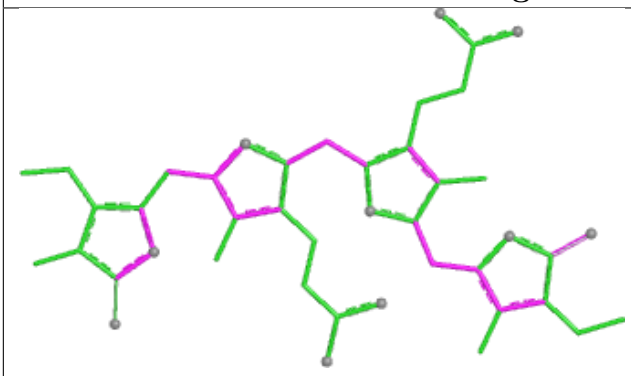


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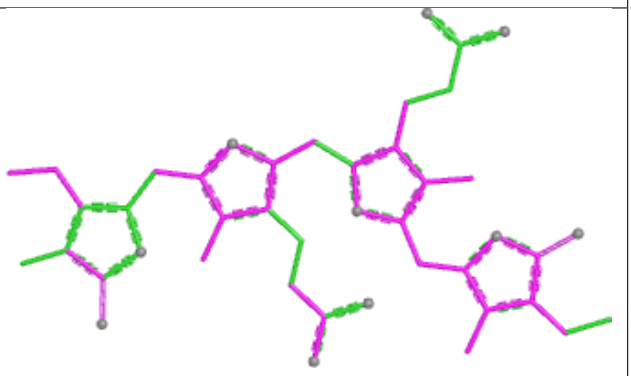


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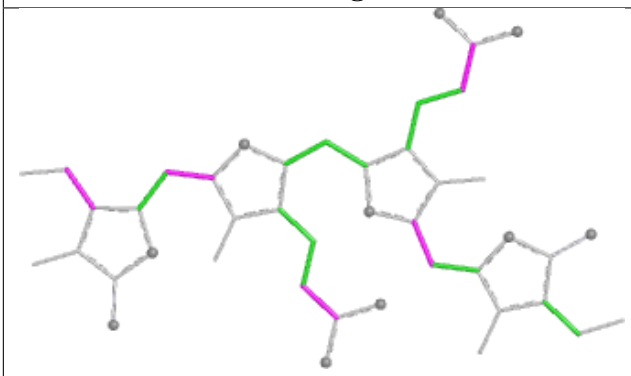
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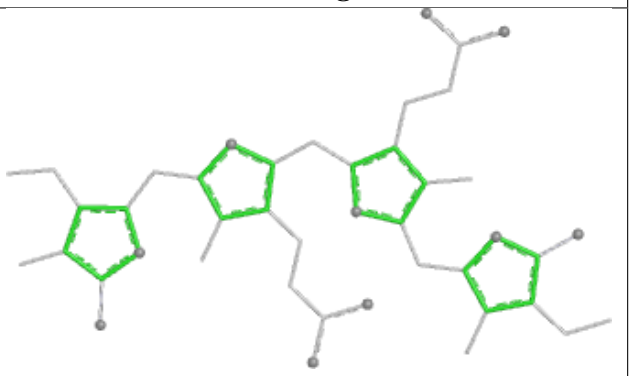
Bond lengths



Bond angles

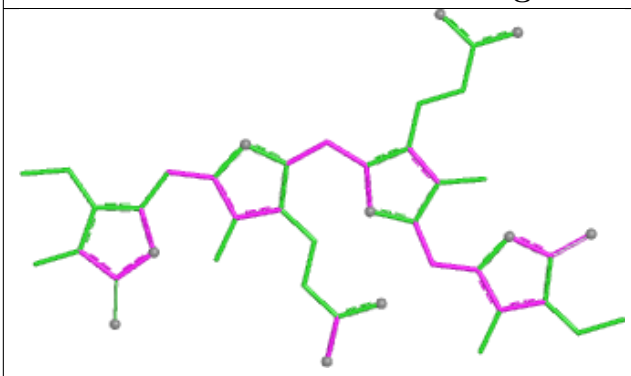


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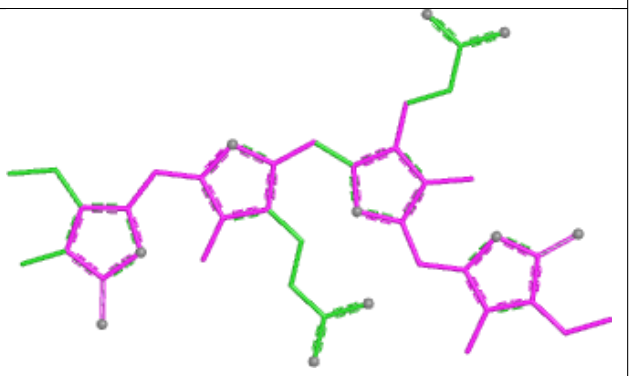


Rings

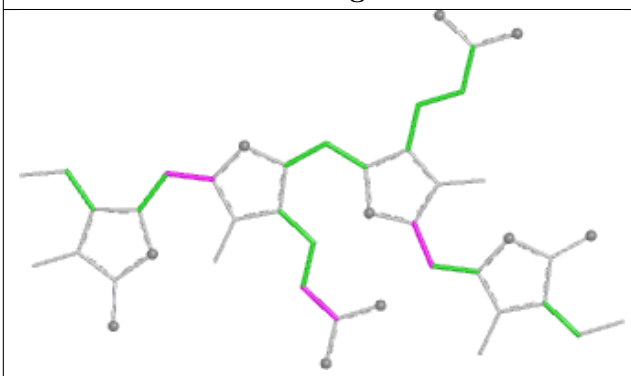
Ligand CYC P1 201



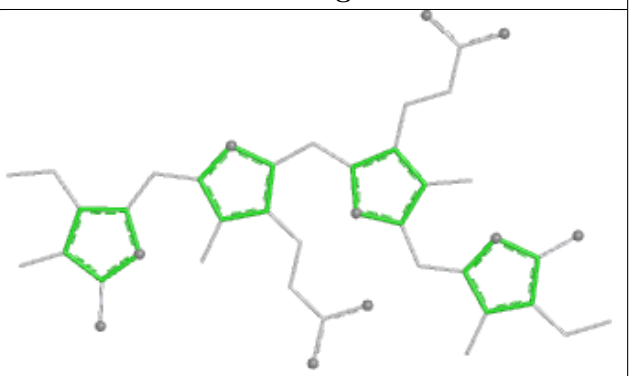
Bond lengths



Bond angles

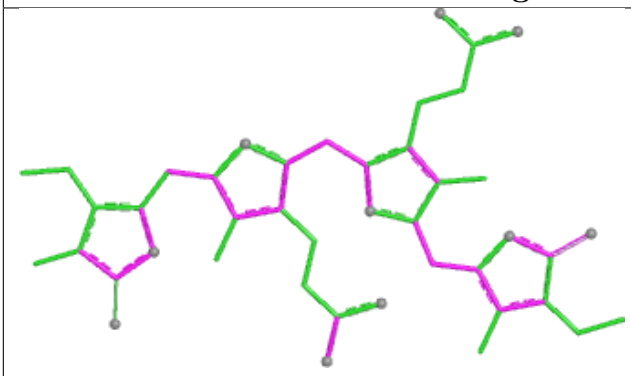


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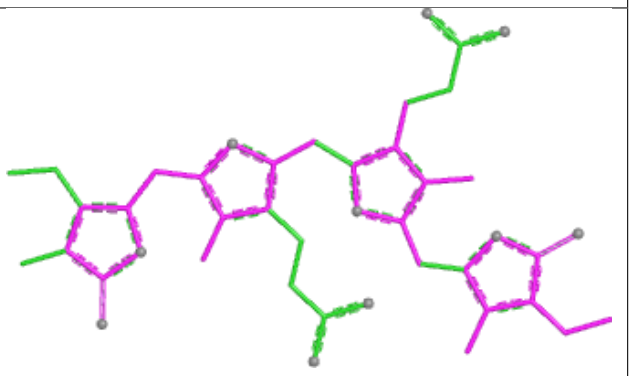


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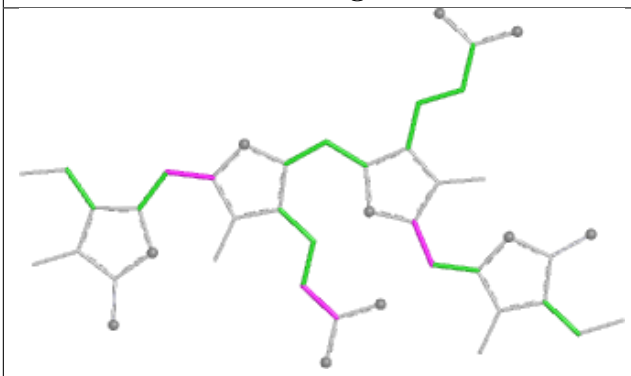
Ligand CYC H9 202



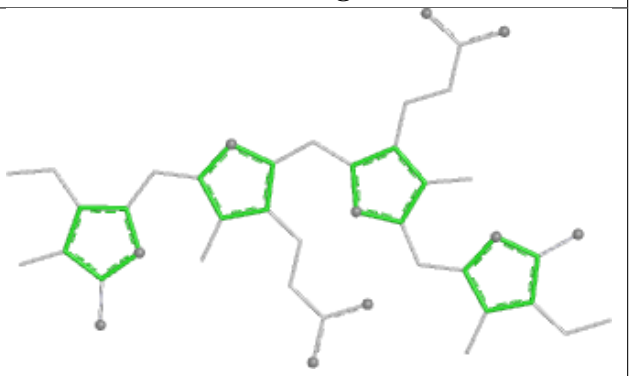
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Bond angles

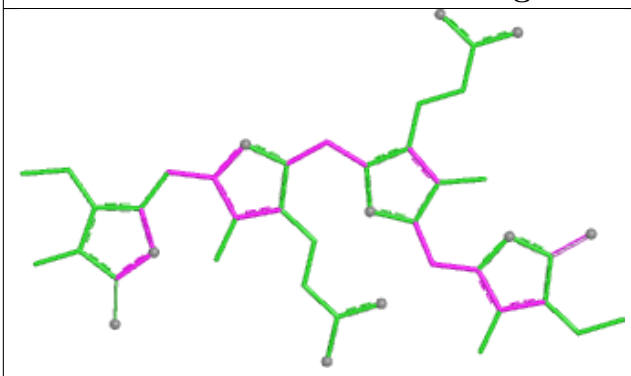


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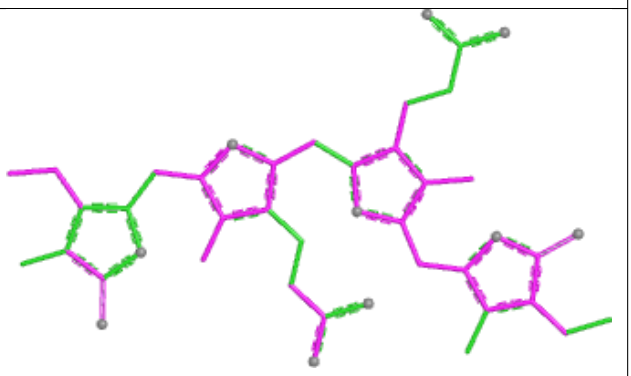


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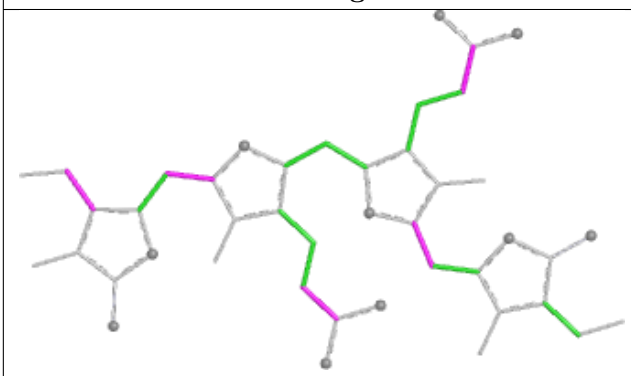
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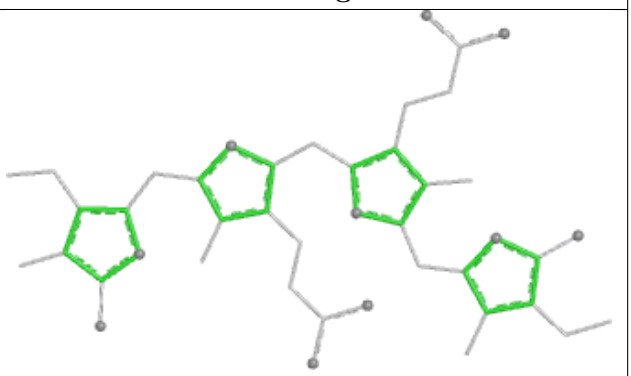
Bond lengths



Bond angles

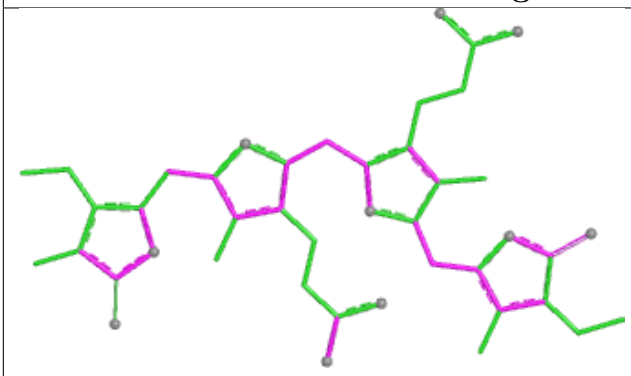


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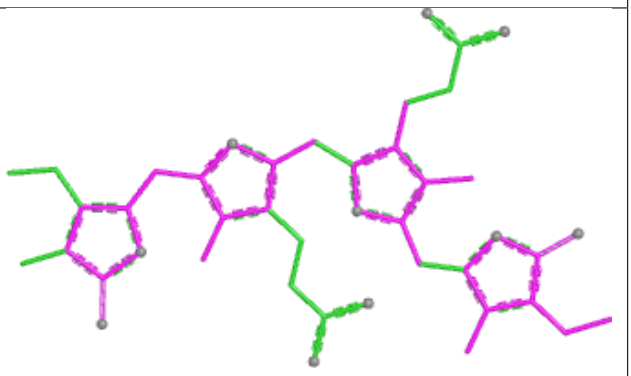


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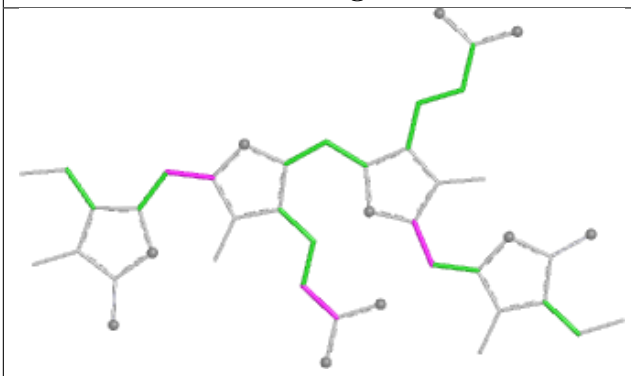
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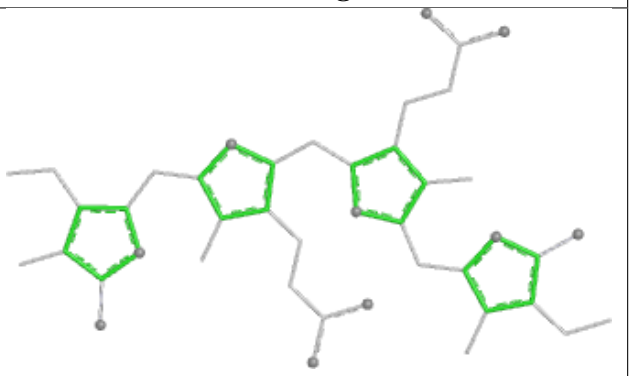
Bond lengths



Bond angles

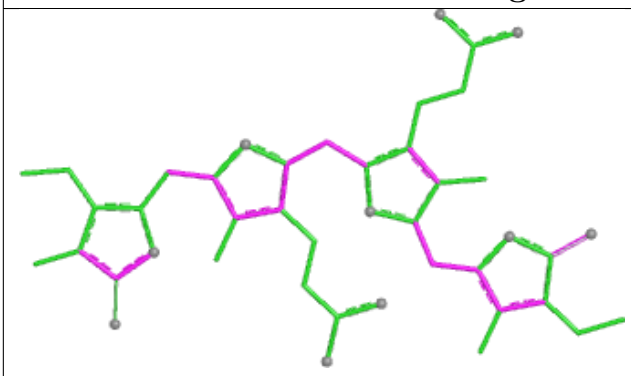


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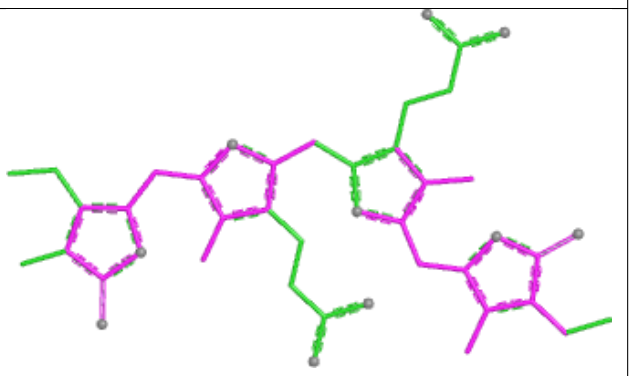


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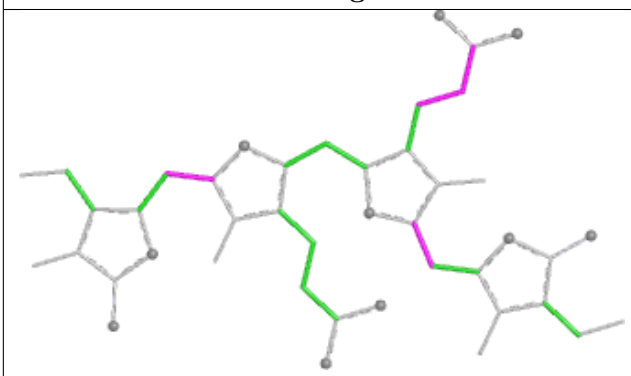
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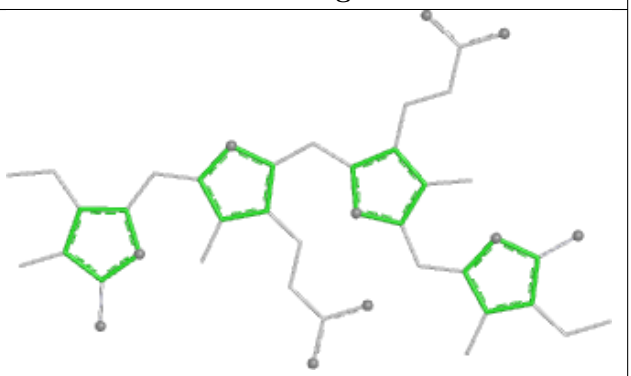
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Bond angles

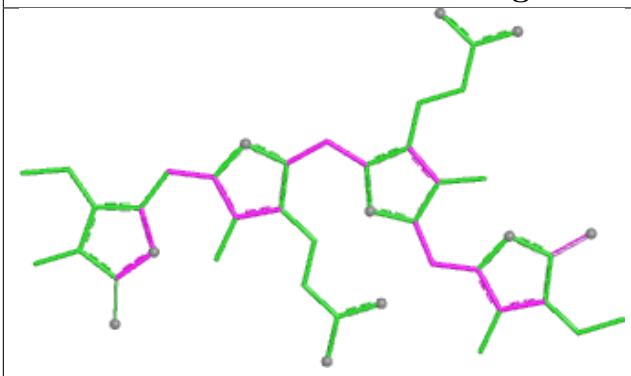


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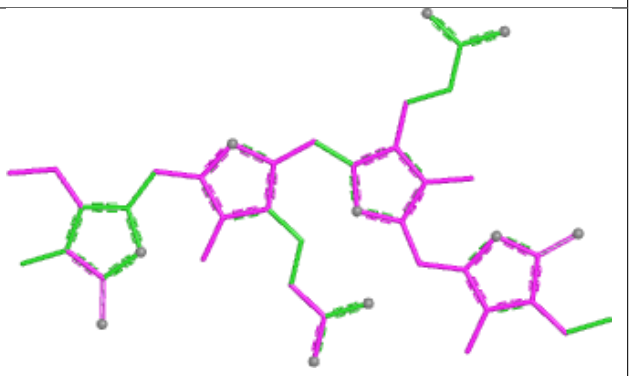


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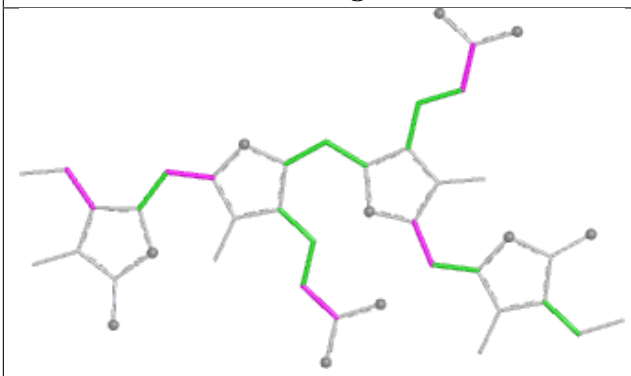
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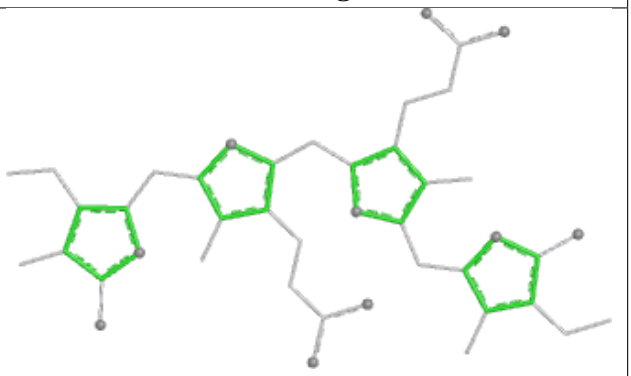
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Bond angles

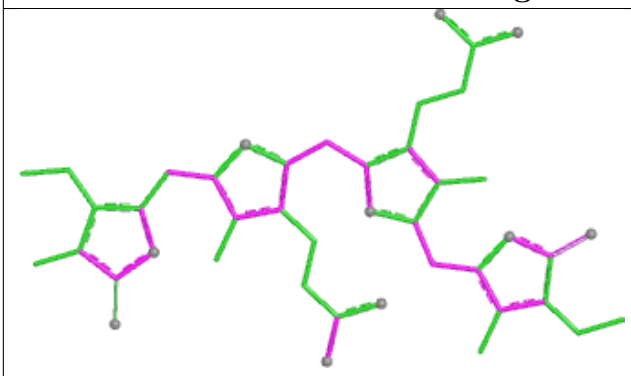


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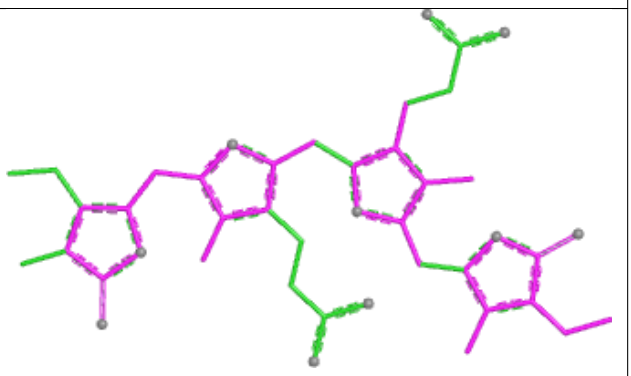


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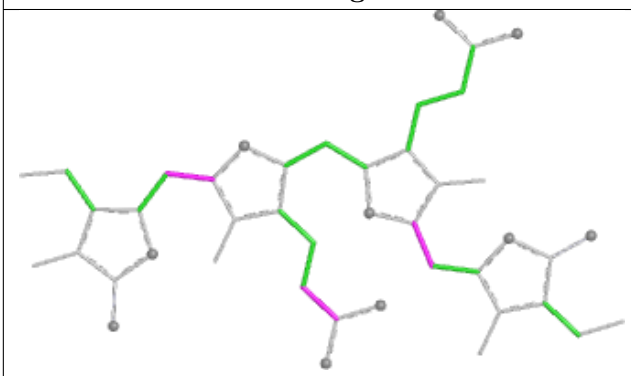
Ligand CYC T3 301



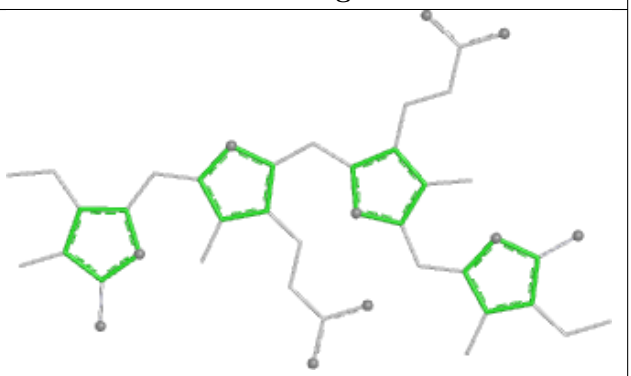
Bond lengths



Bond angles

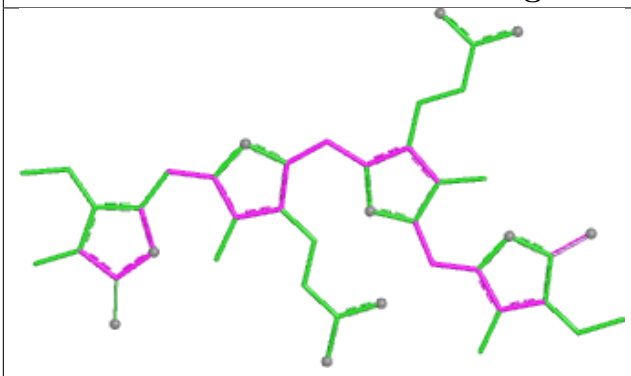


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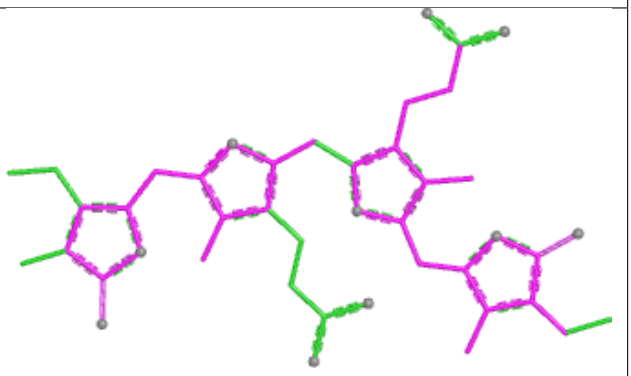


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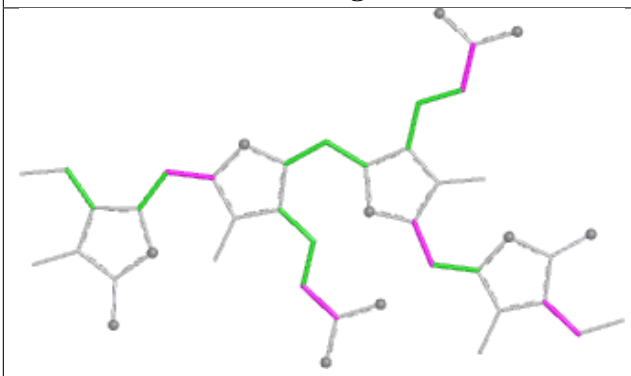
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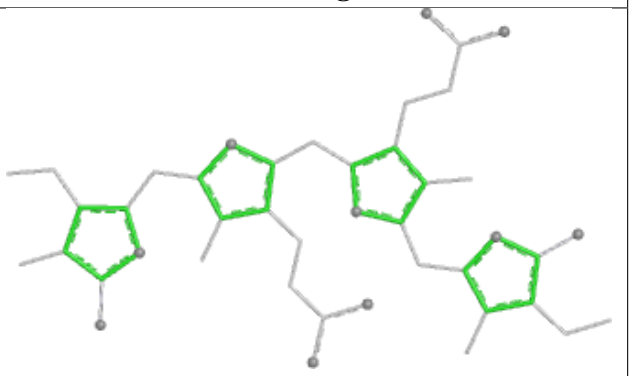
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Bond angles

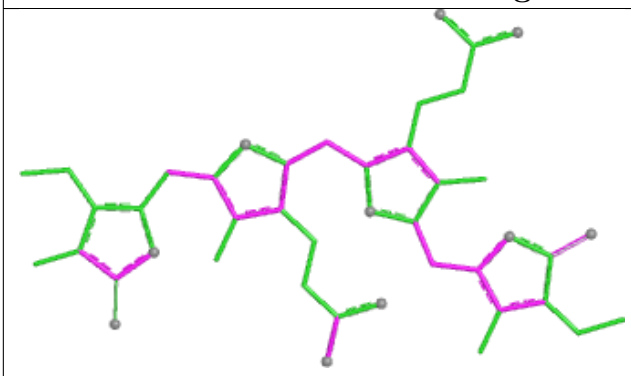


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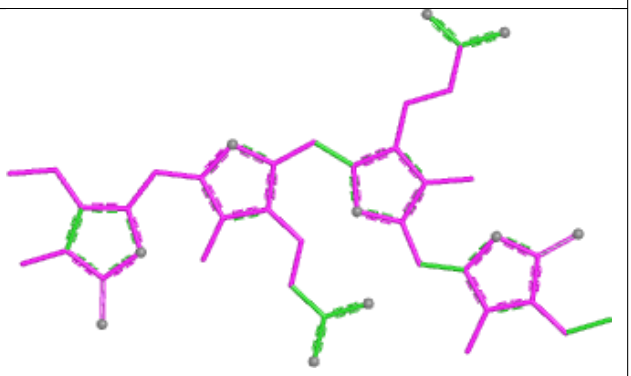


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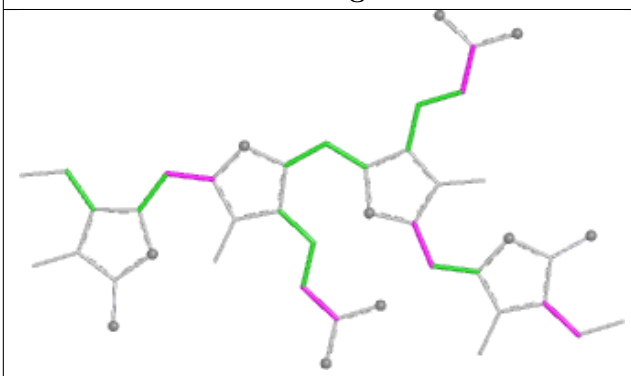
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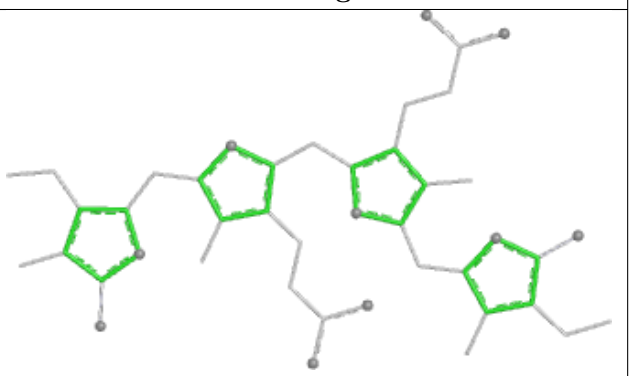
Bond lengths



Bond angles

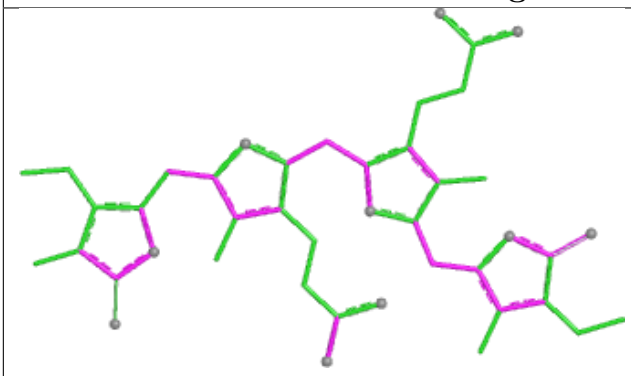


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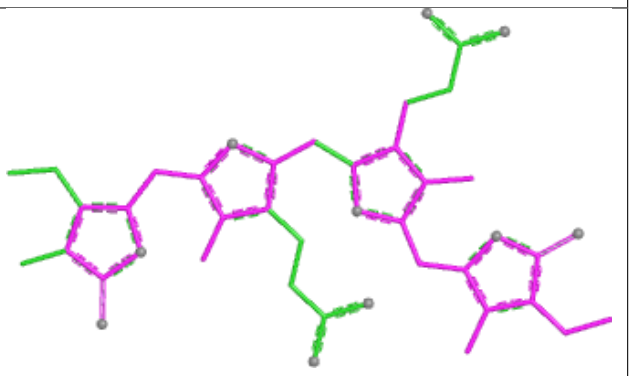


Rings

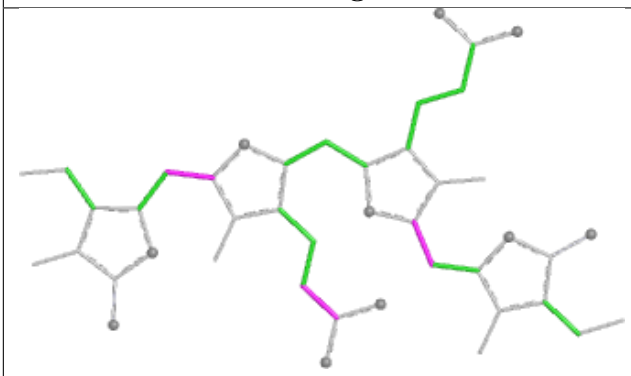
Ligand CYC BA 201



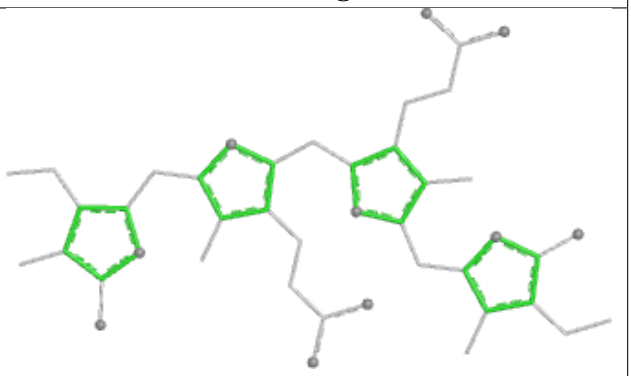
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Bond angles

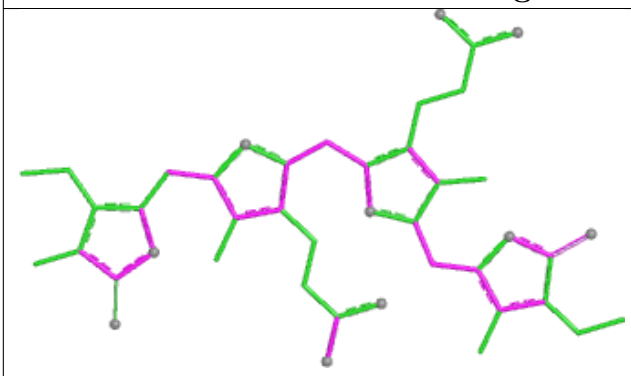


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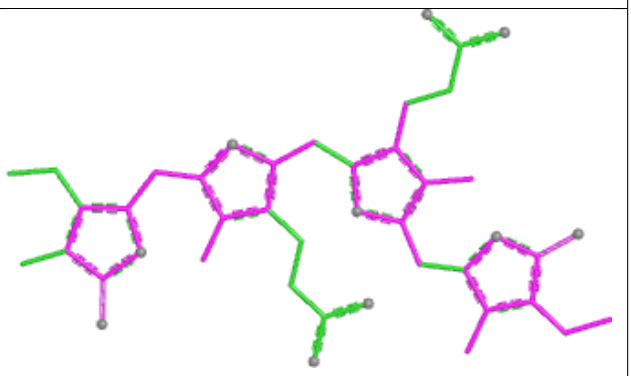


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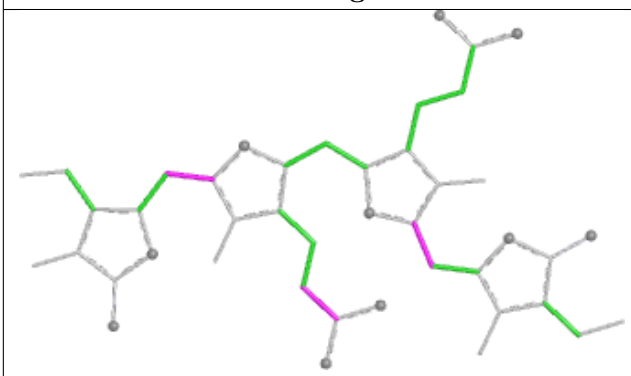
Ligand CYC T1 301



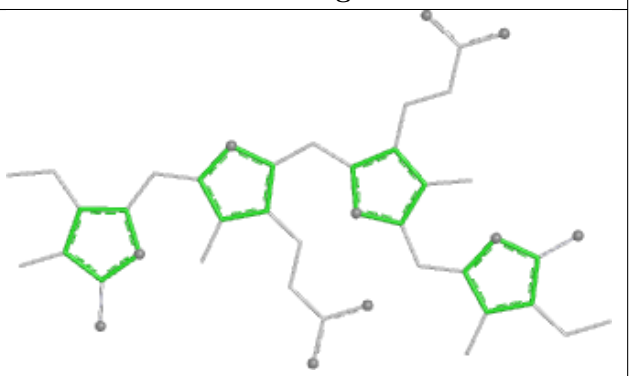
Bond lengths



Bond angles

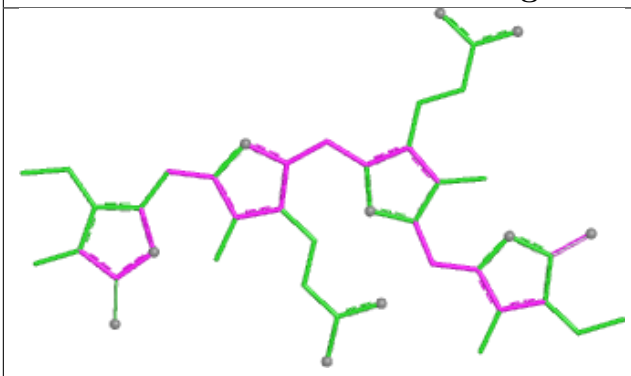


Torsions

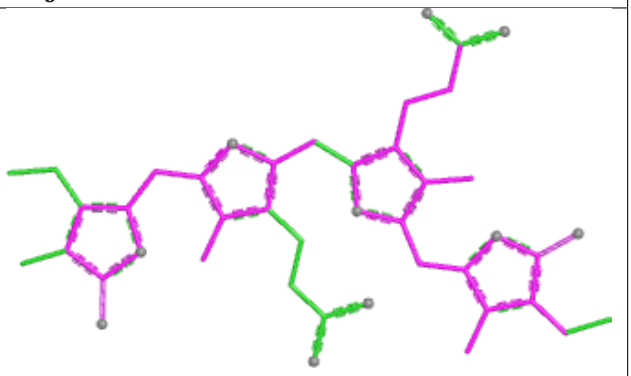


Rings

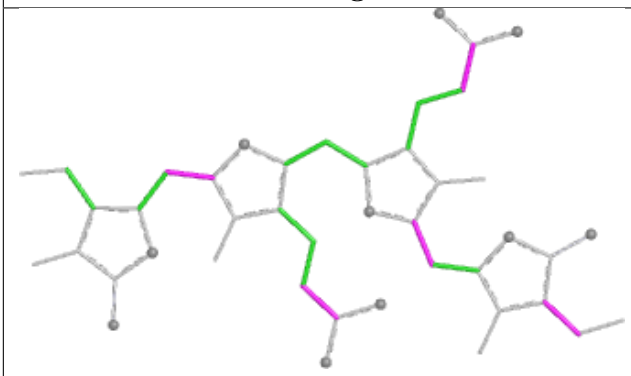
Ligand CYC j7 201



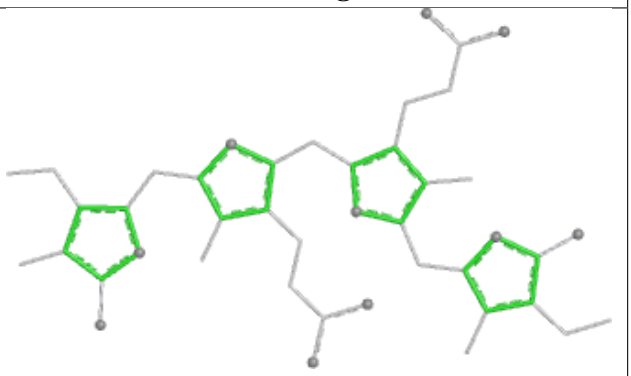
Bond lengths



Bond angles

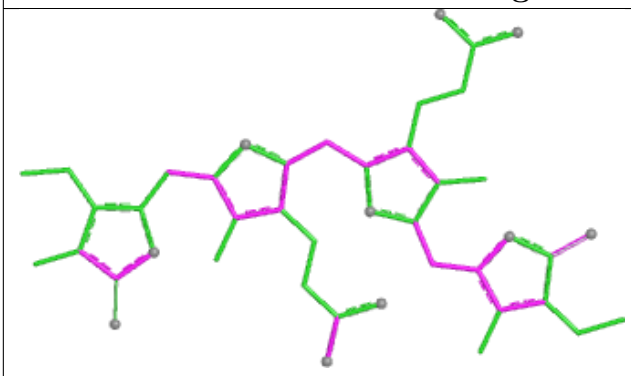


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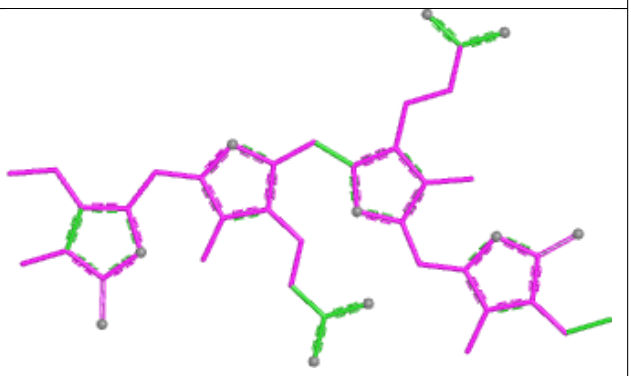


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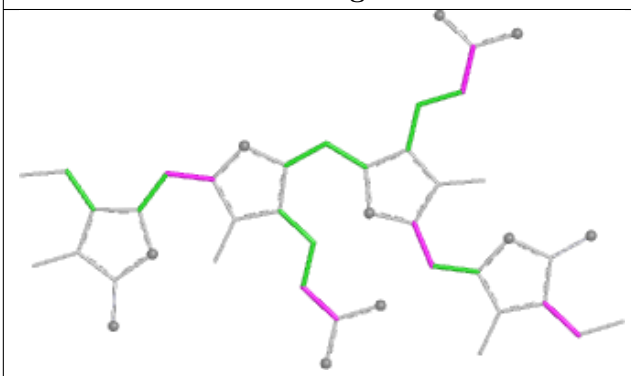
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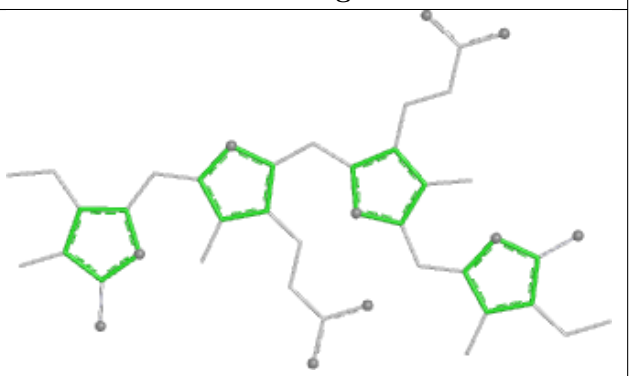
Bond lengths



Bond angles

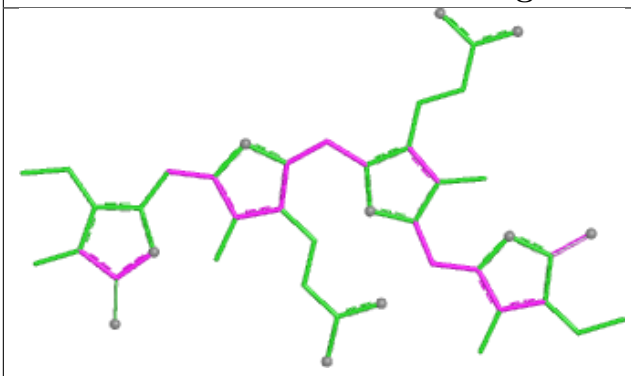


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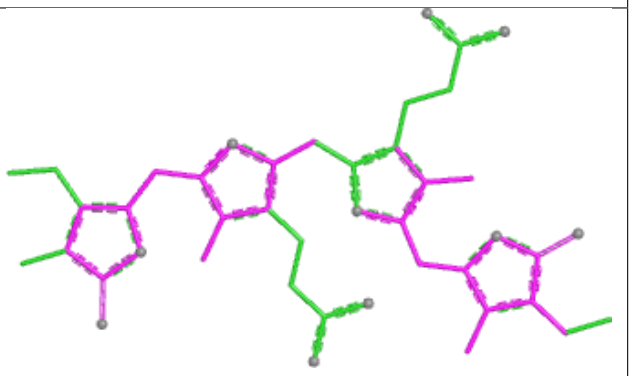


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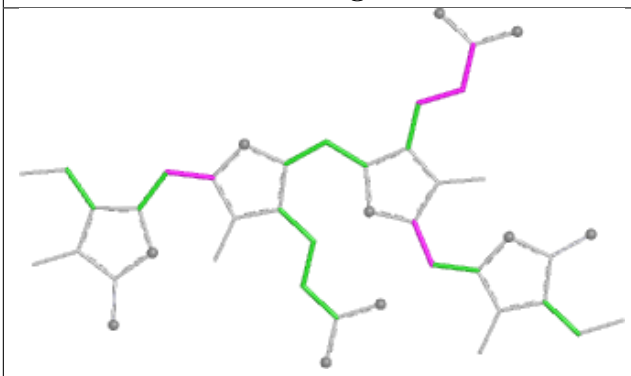
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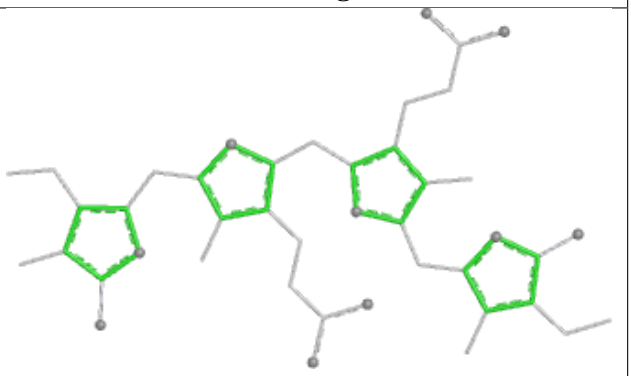
Bond lengths



Bond angles

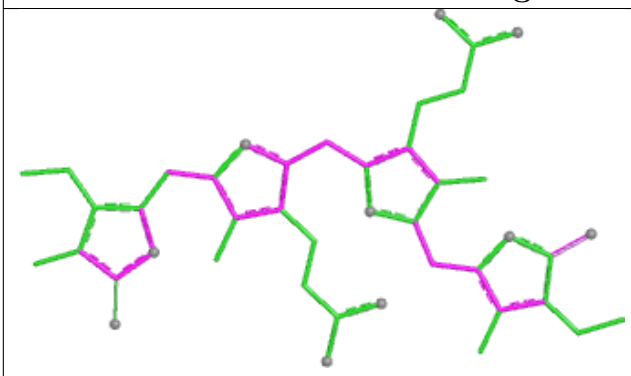


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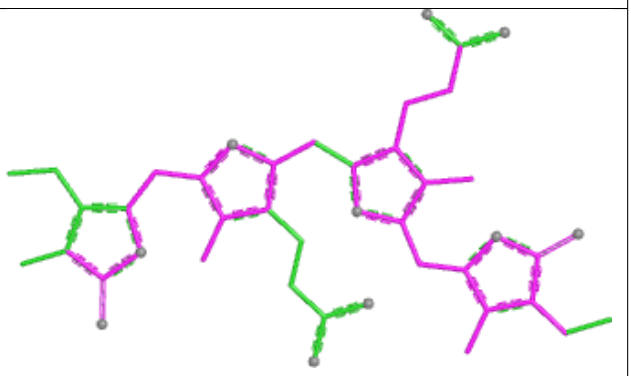


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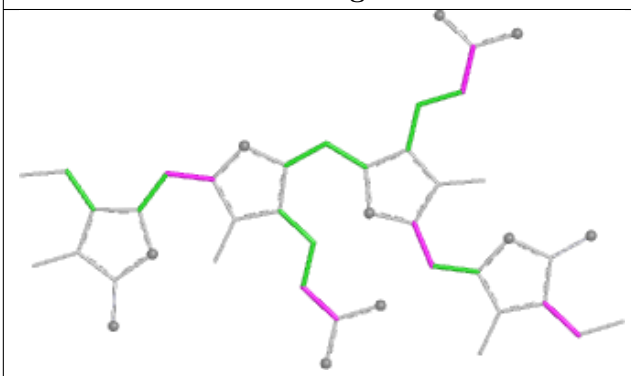
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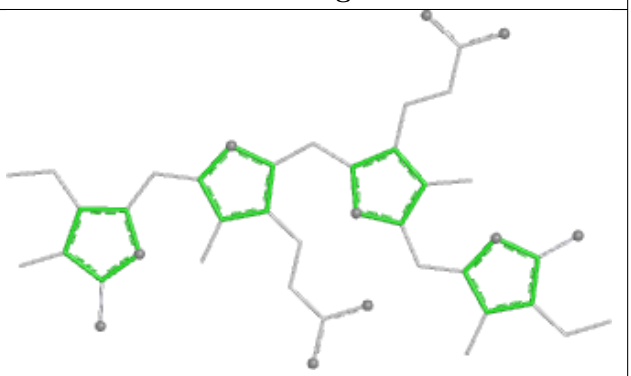
Bond lengths



Bond angles

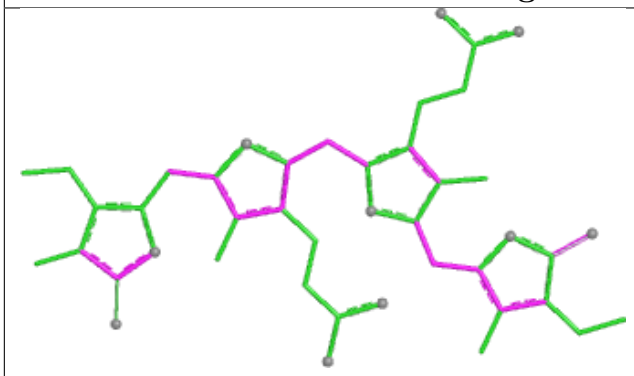


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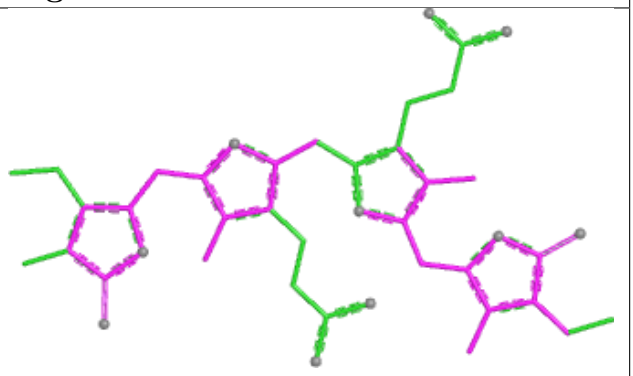


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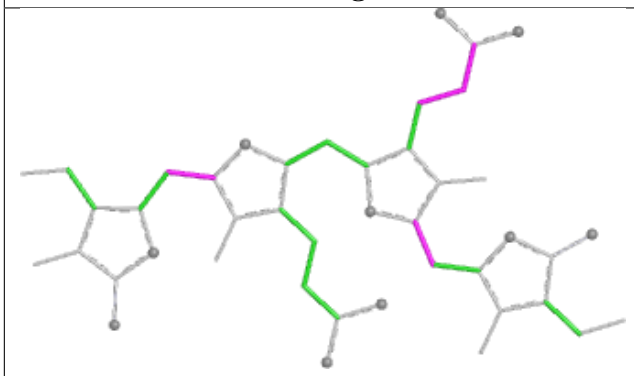
Ligand CYC g7 201



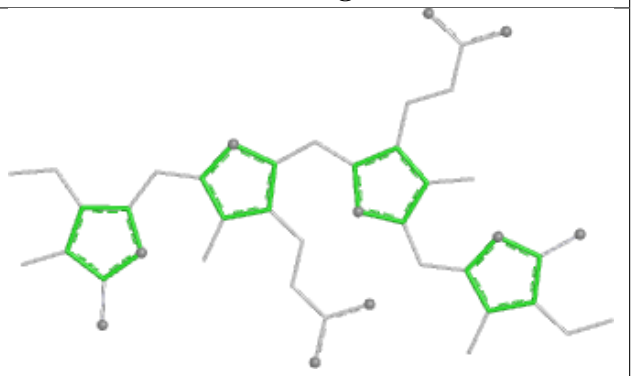
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Bond angles

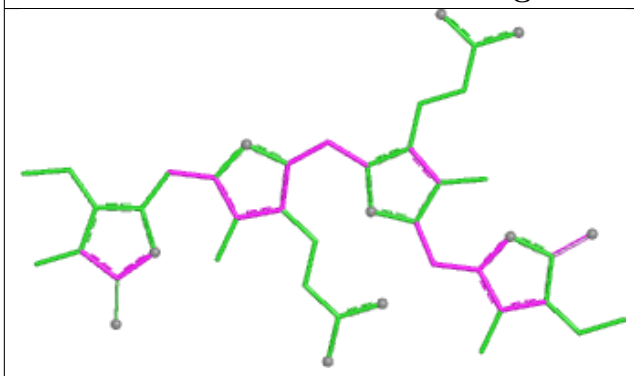


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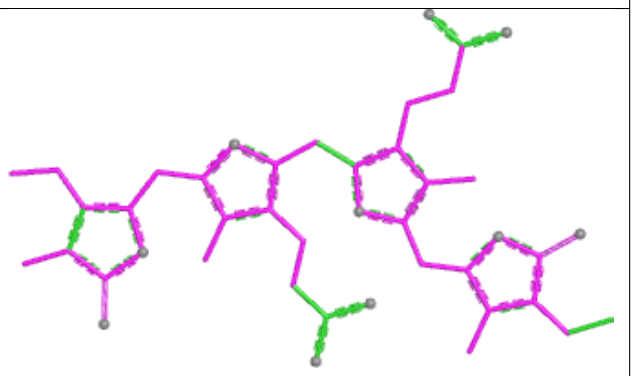


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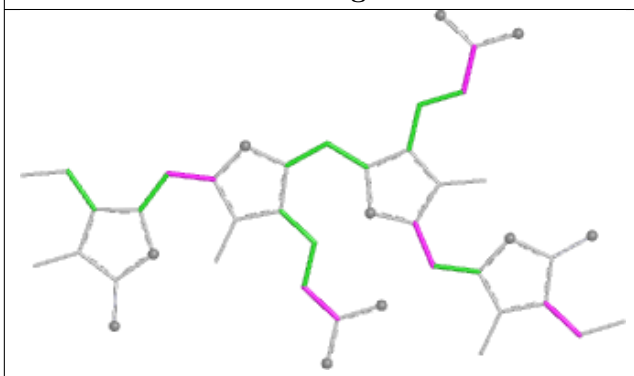
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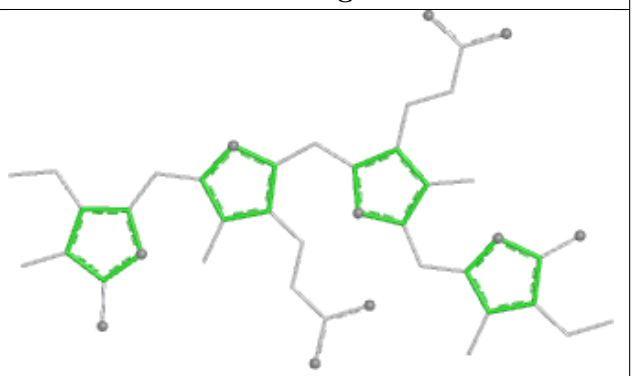
Bond lengths



Bond angles

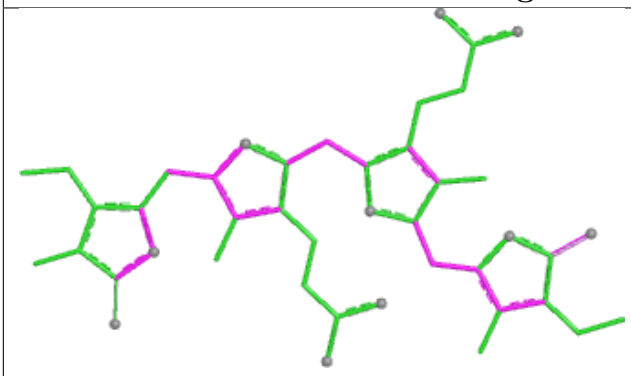


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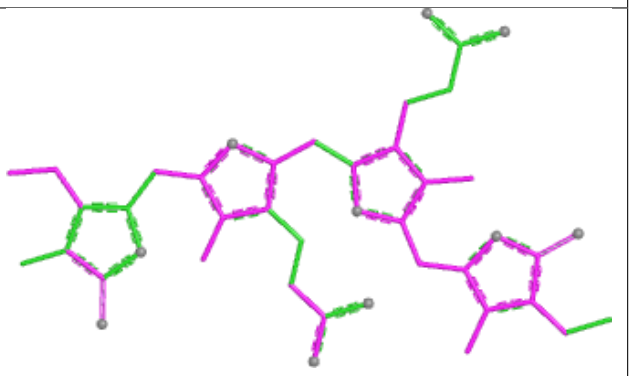


Rings

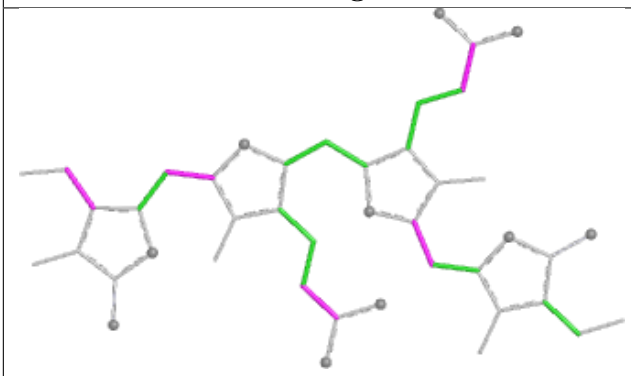
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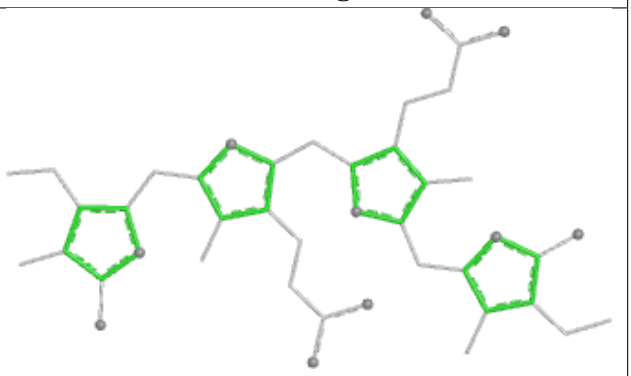
Bond lengths



Bond angles

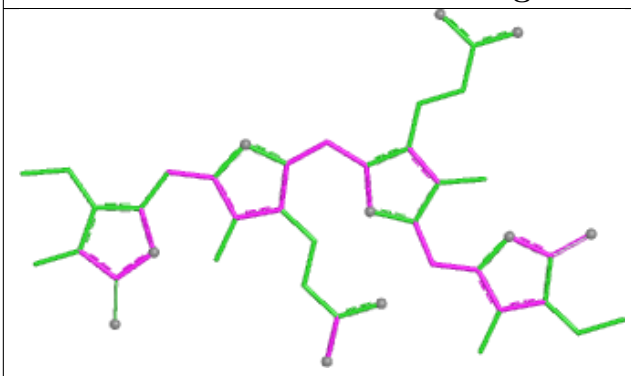


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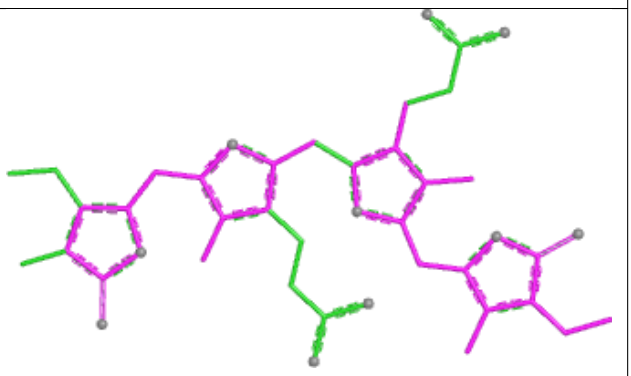


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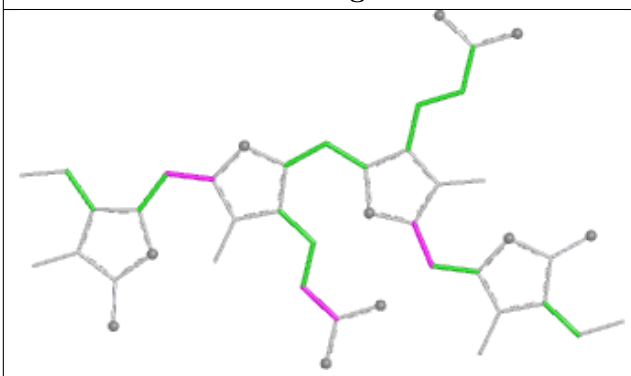
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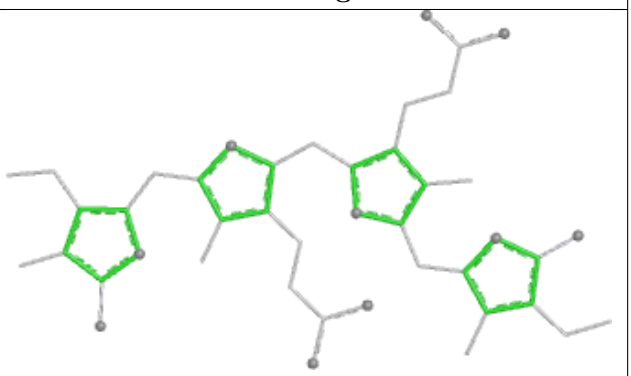
Bond lengths



Bond angles

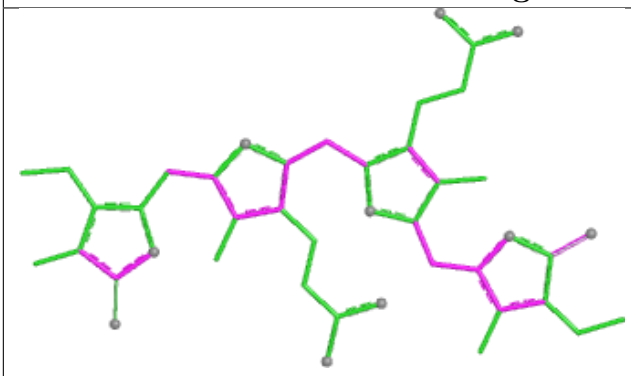


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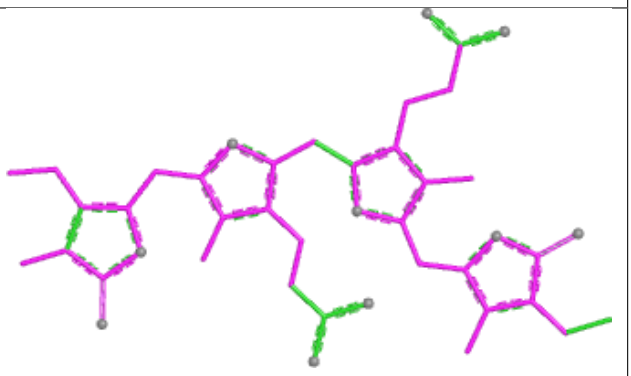


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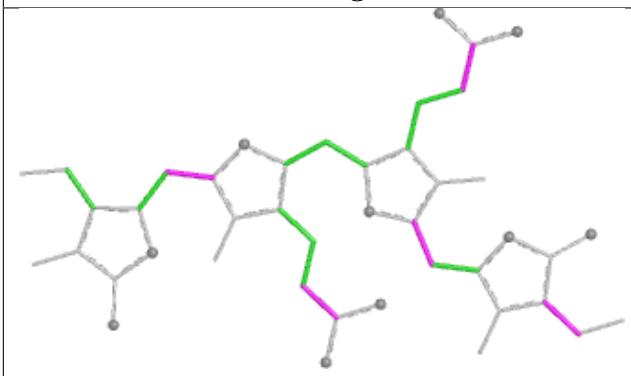
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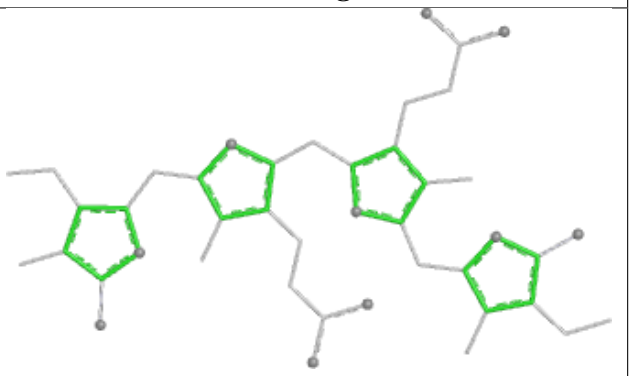
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Bond angles

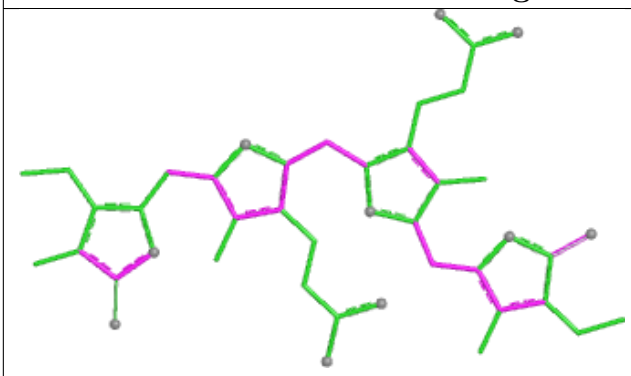


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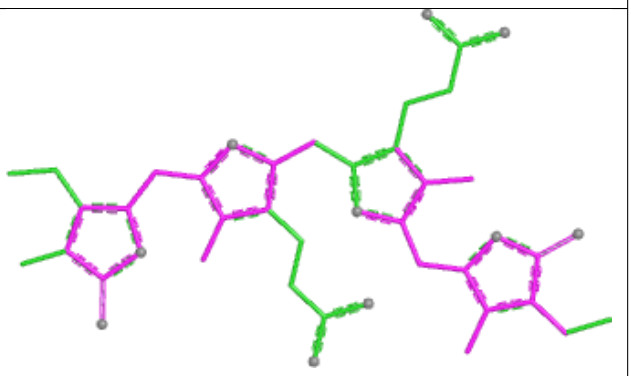


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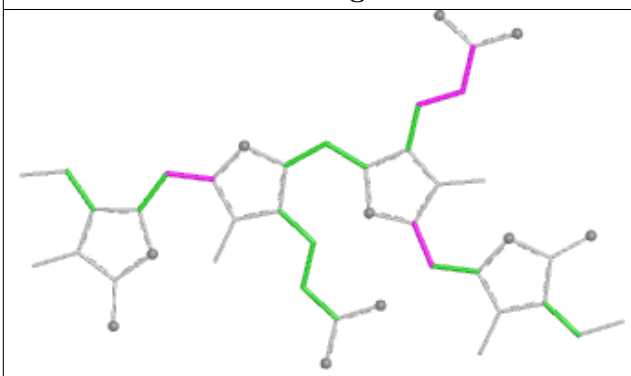
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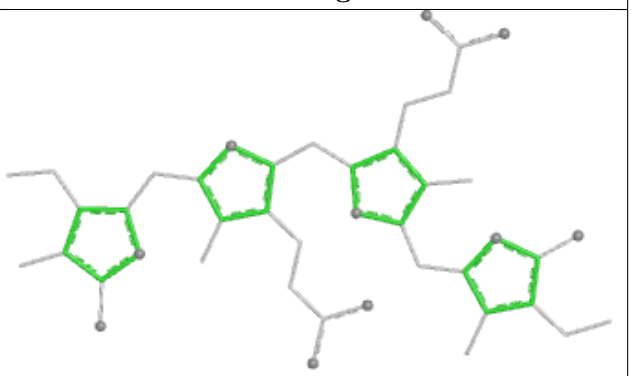
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Bond angles

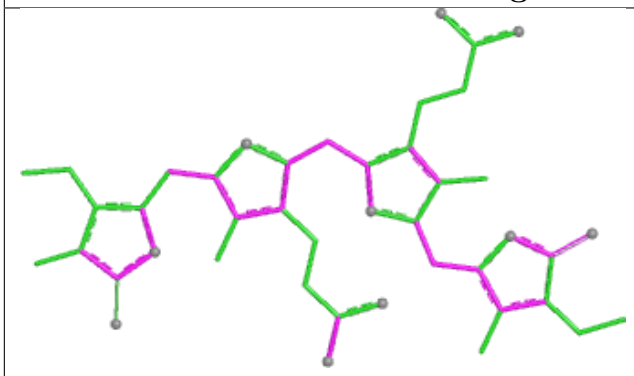


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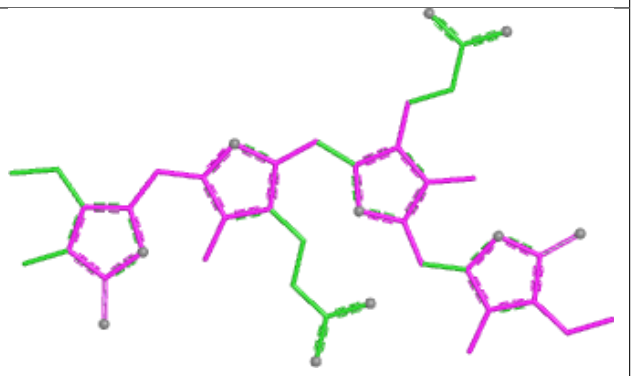


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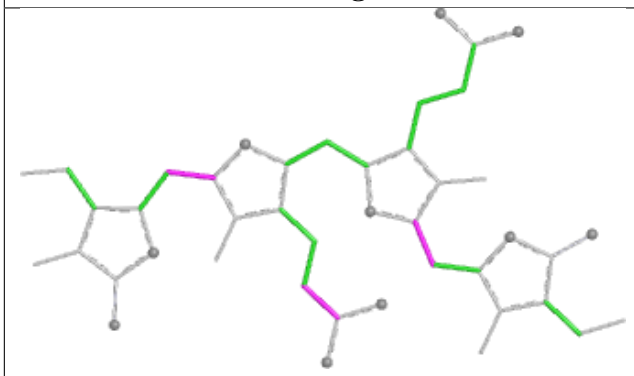
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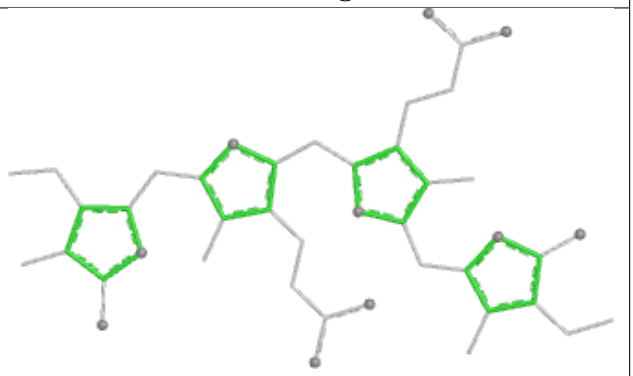
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Bond angles

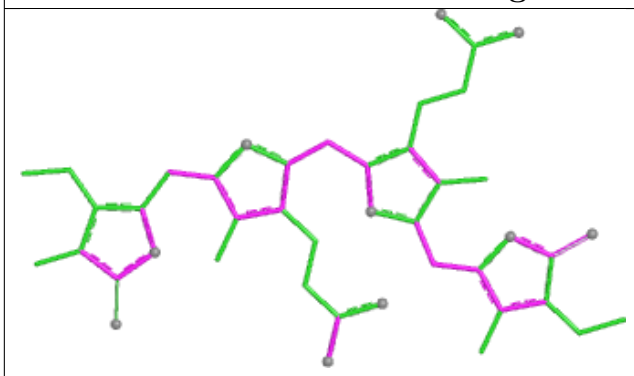


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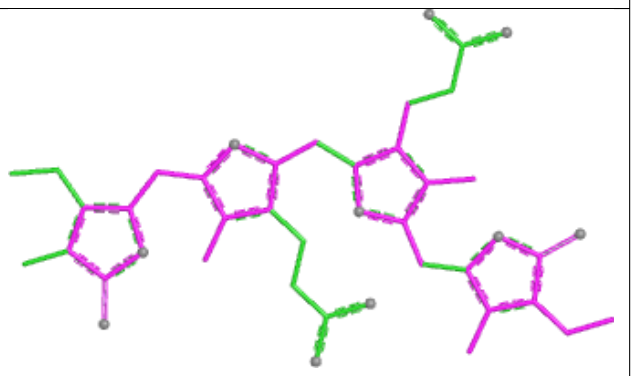


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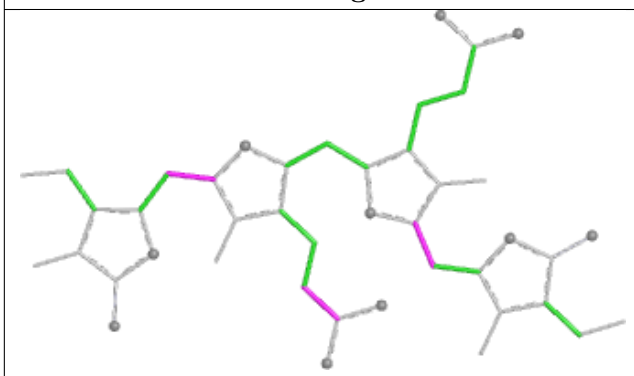
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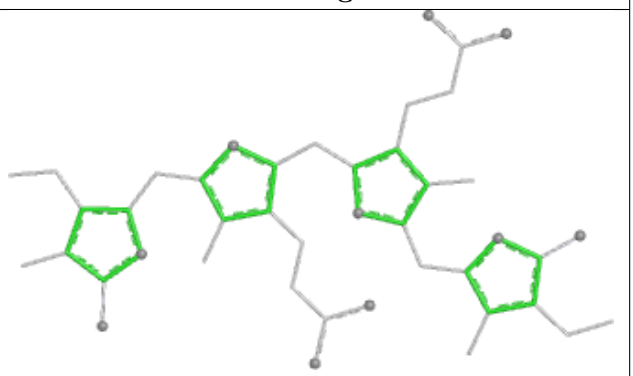
Bond lengths



Bond angles

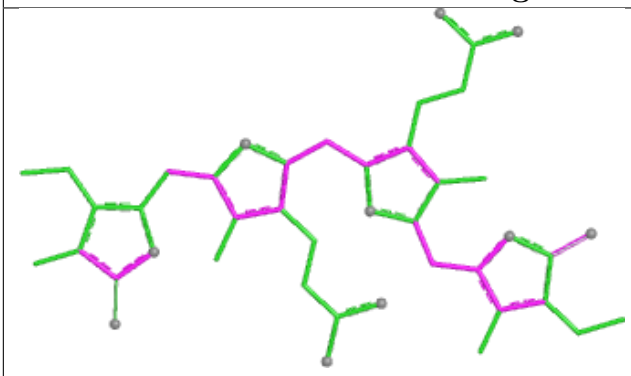


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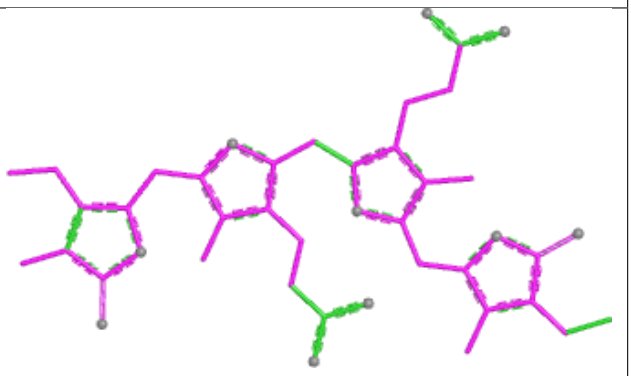


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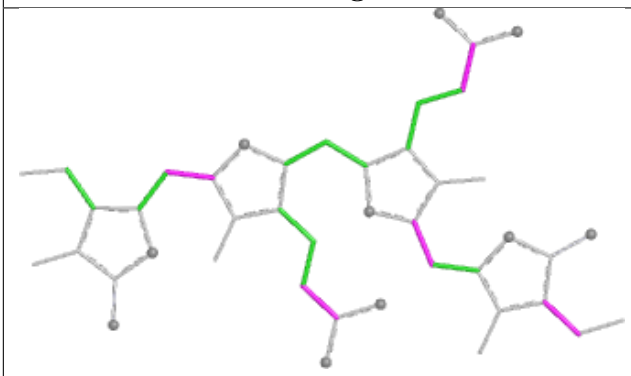
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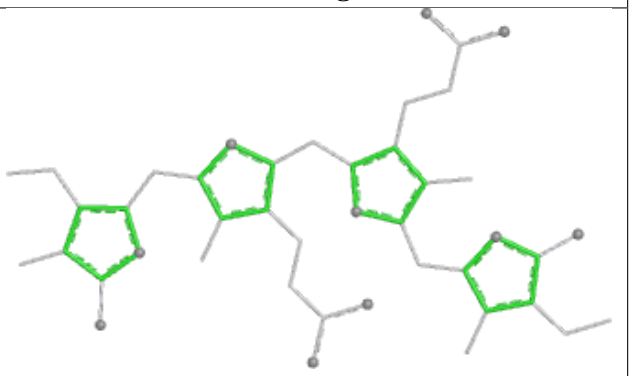
Bond lengths



Bond angles

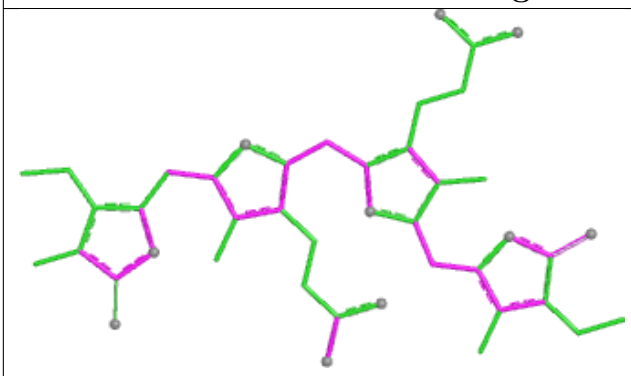


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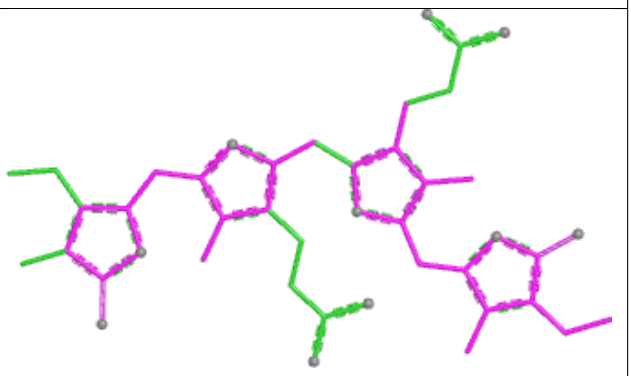


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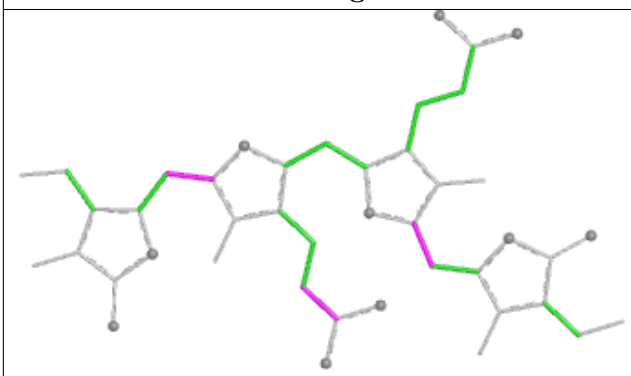
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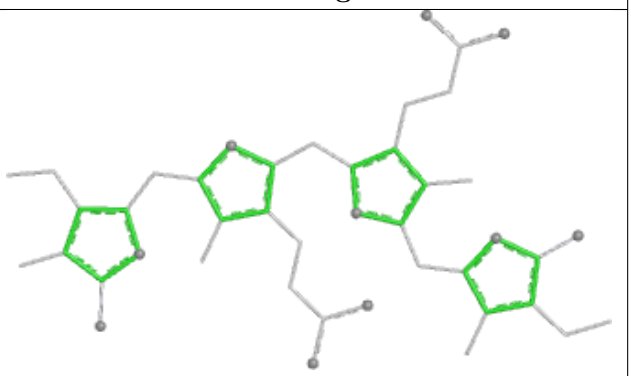
Bond lengths



Bond angles

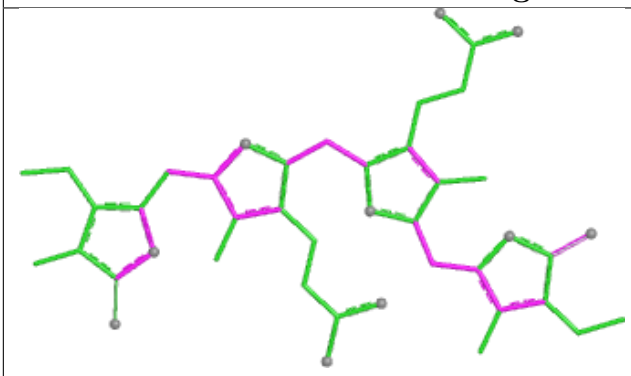


Torsions

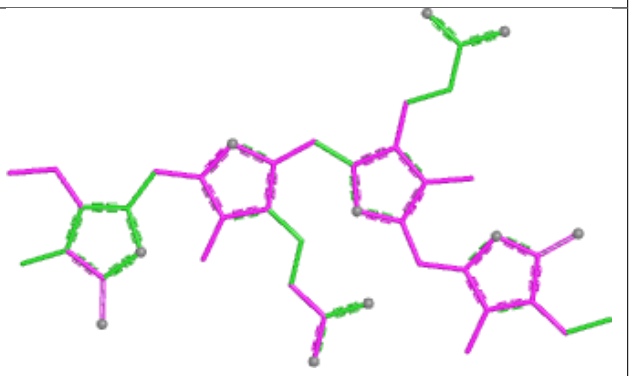


Rings

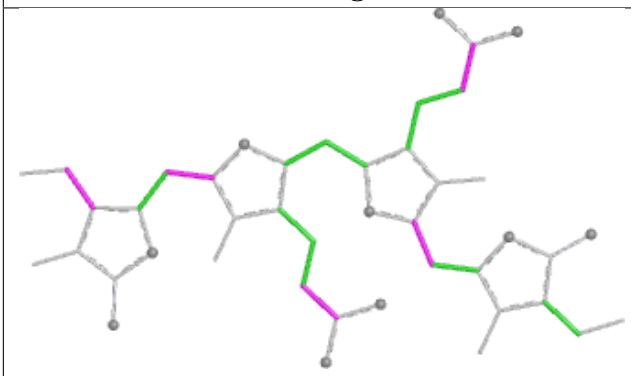
Ligand CYC V9 202



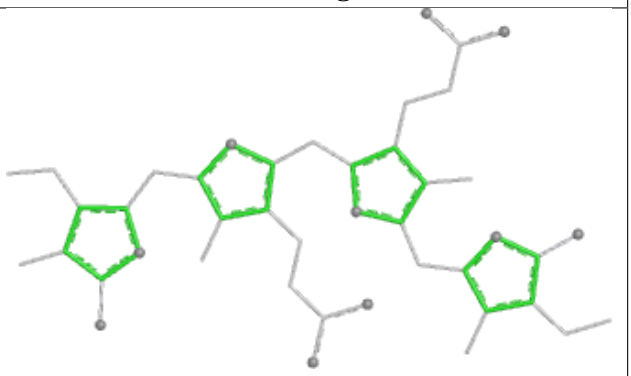
Bond lengths



Bond angles

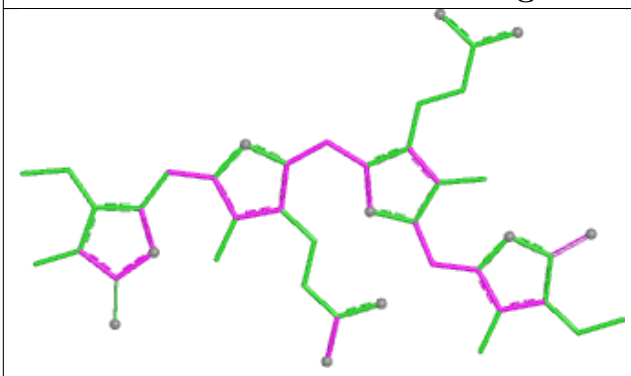


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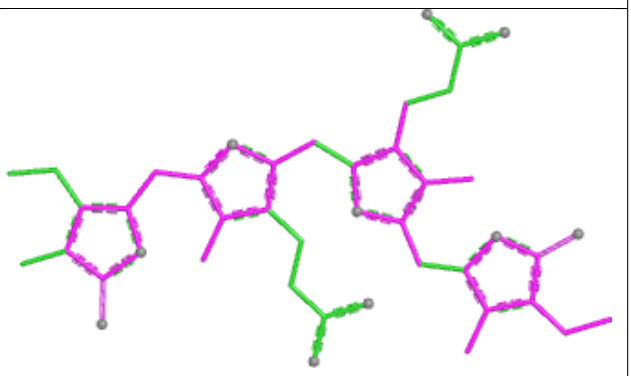


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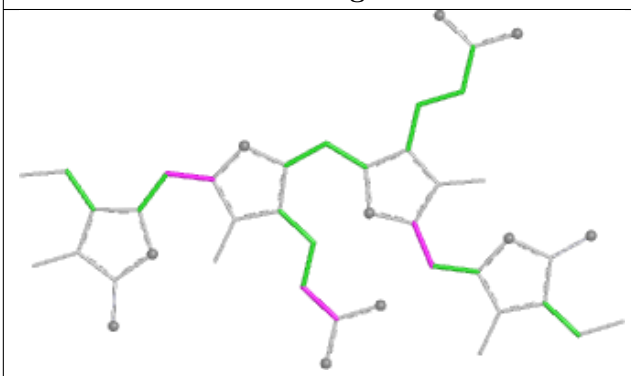
Ligand CYC a9 901



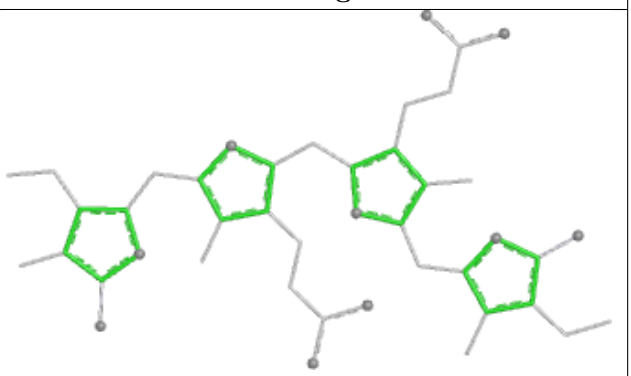
Bond lengths



Bond angles

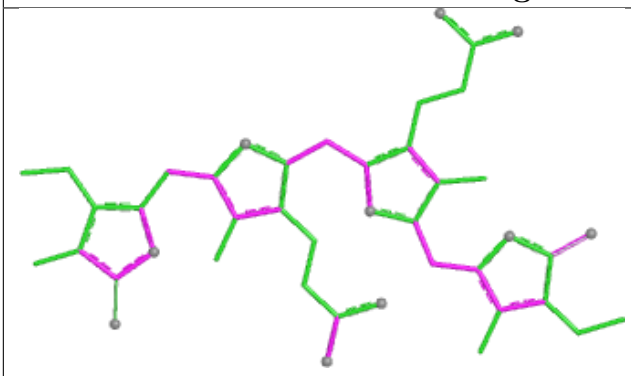


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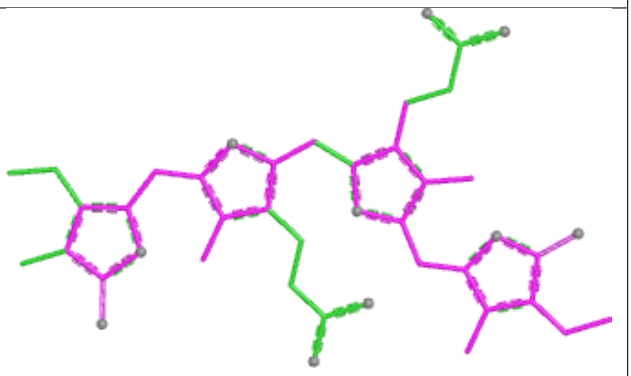


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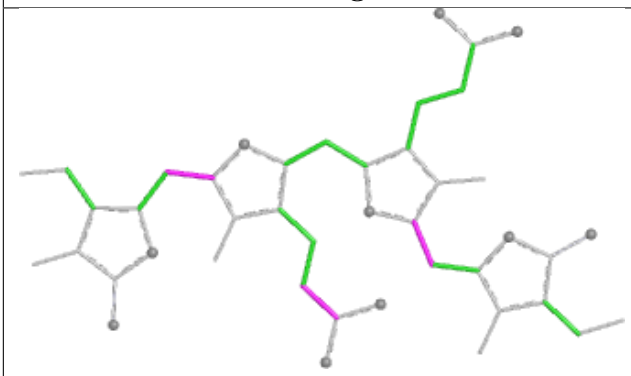
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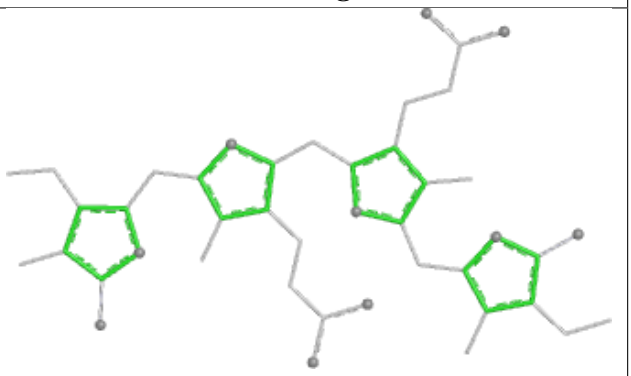
Bond lengths



Bond angles

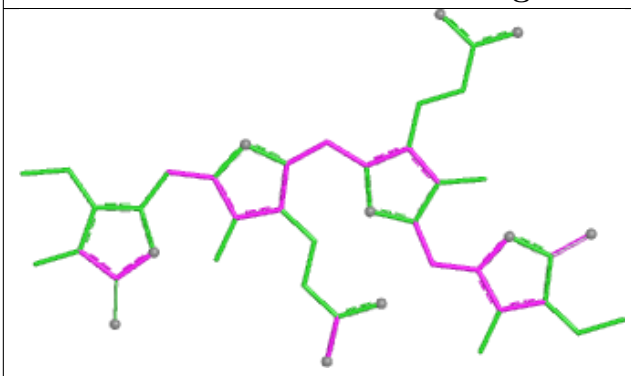


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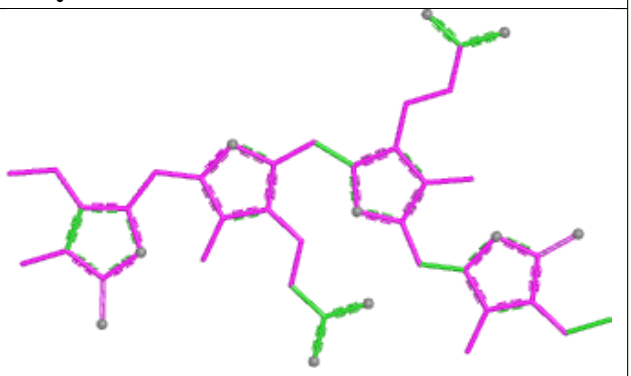


Rings

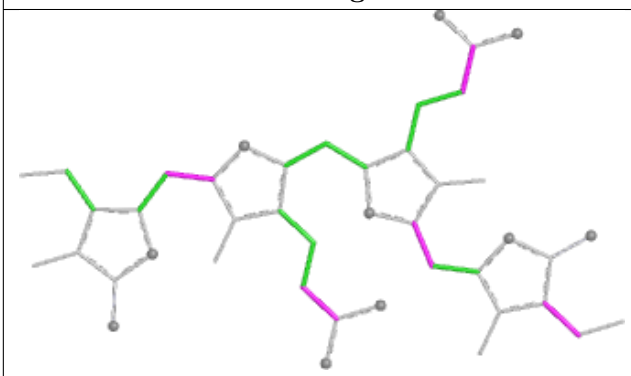
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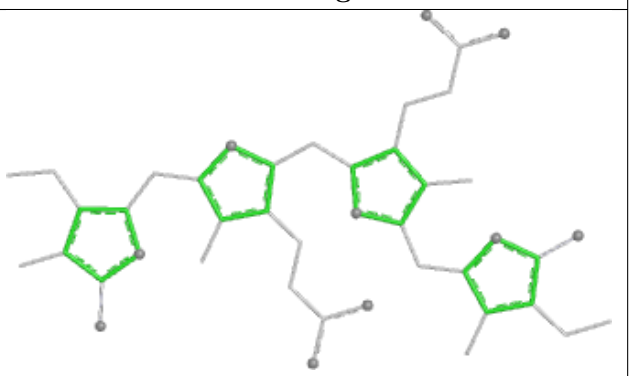
Bond lengths



Bond angles

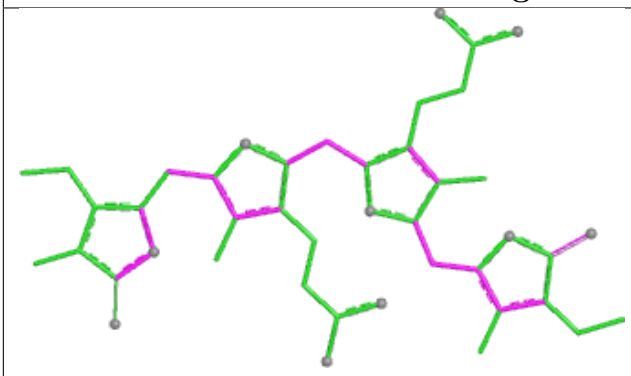


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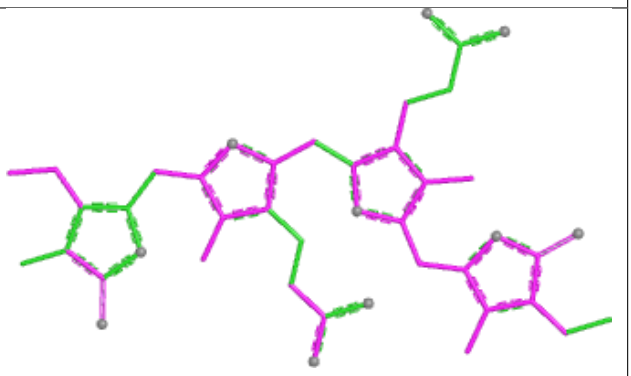


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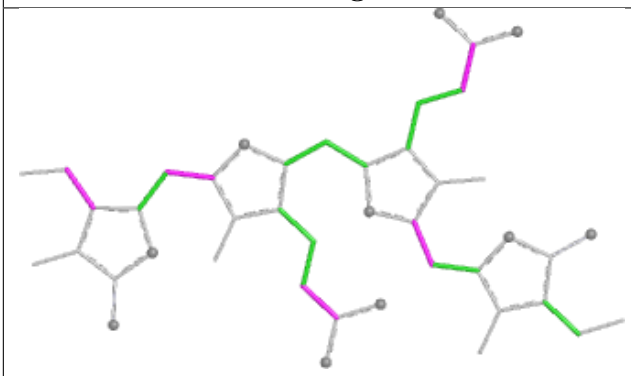
Ligand CYC D1 201



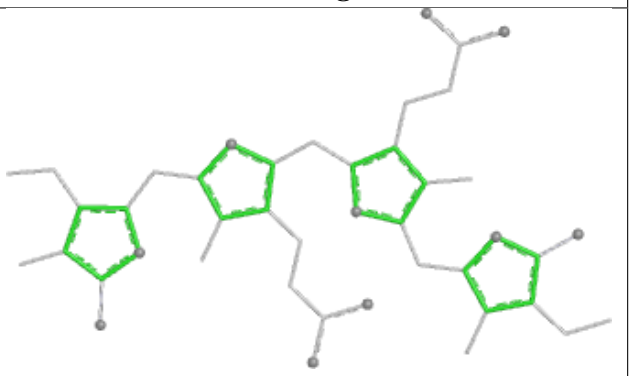
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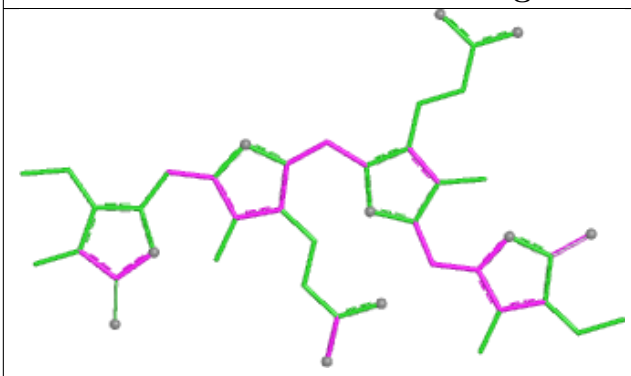


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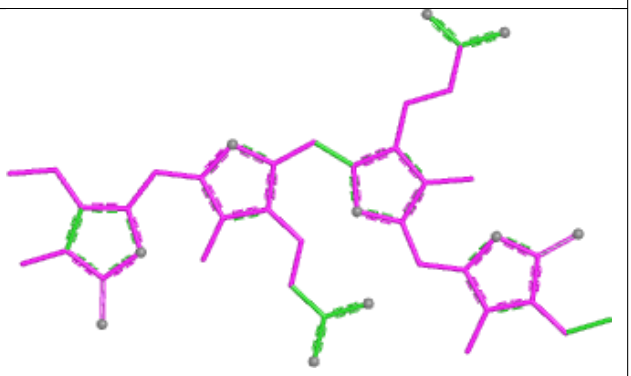


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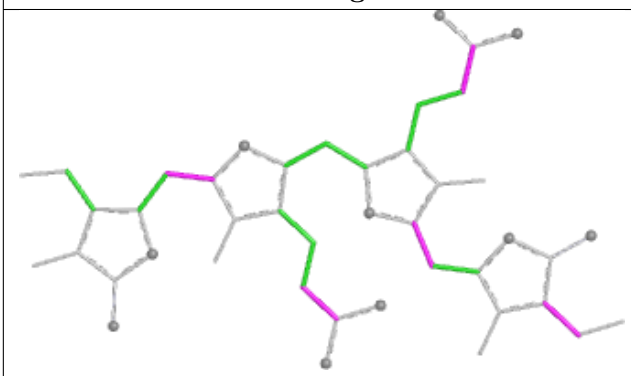
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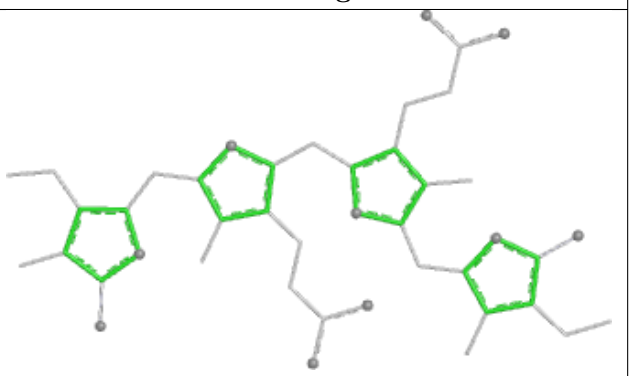
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Bond angles

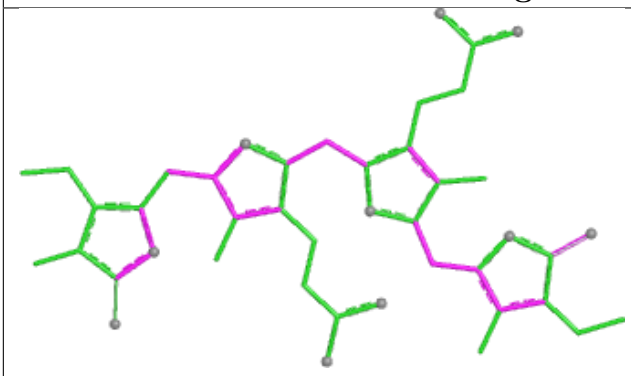


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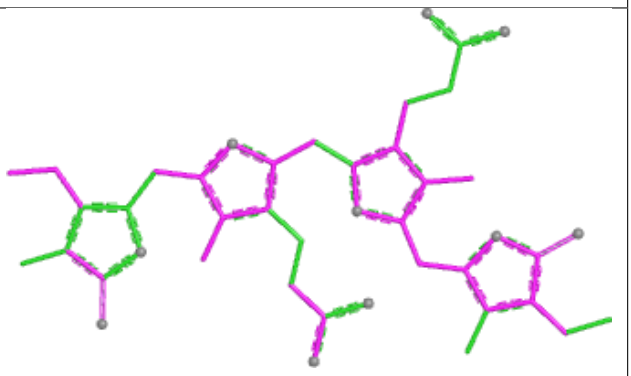


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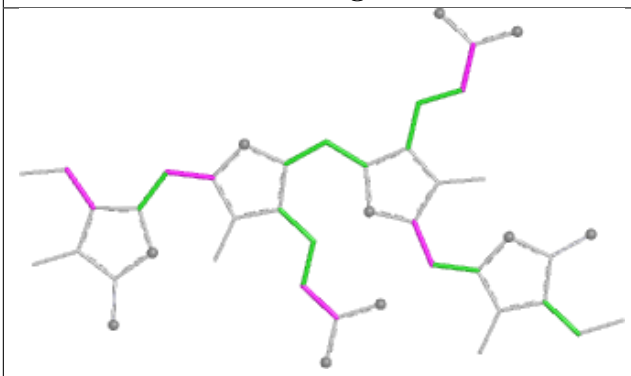
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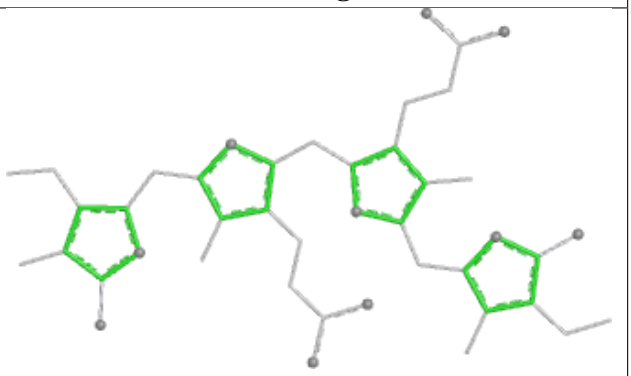
Bond lengths



Bond angles

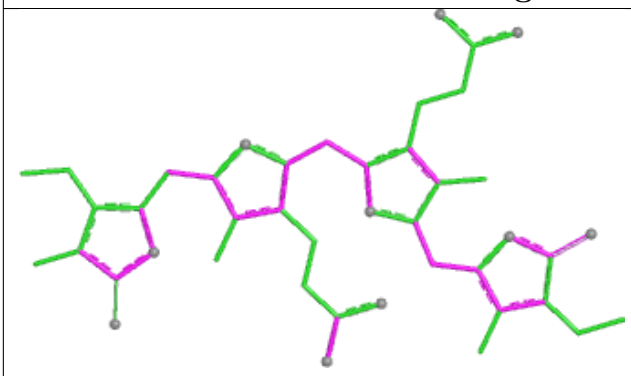


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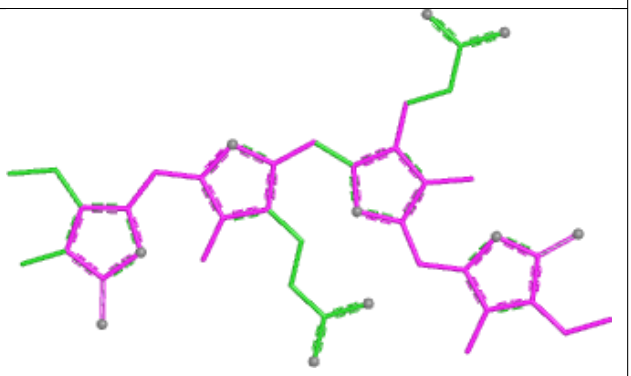


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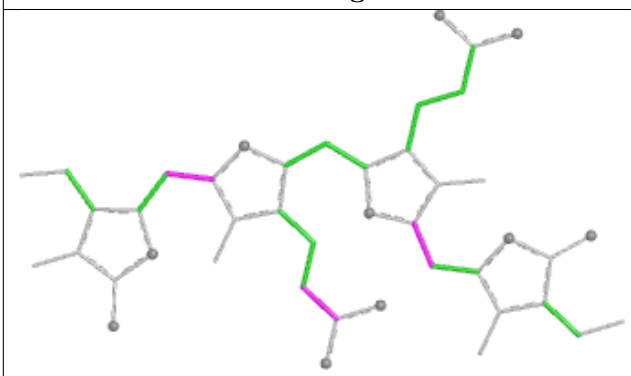
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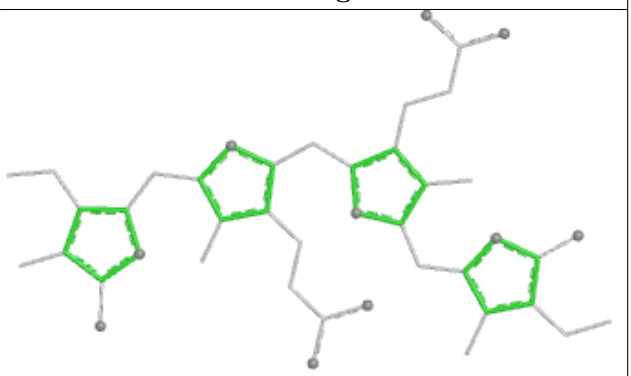
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Bond angles

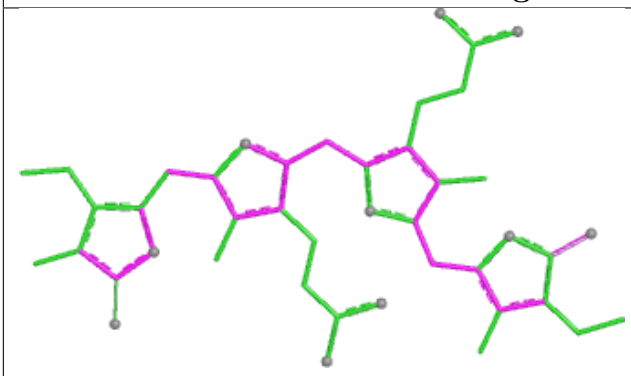


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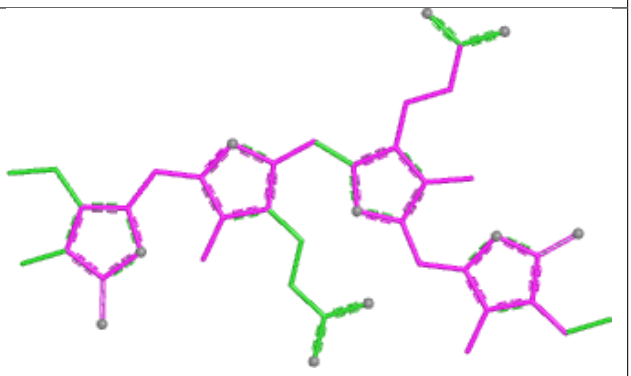


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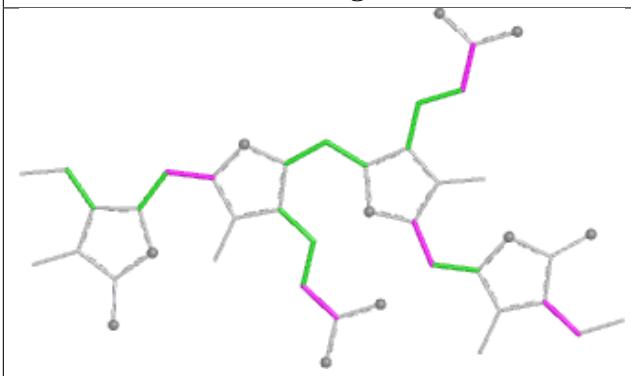
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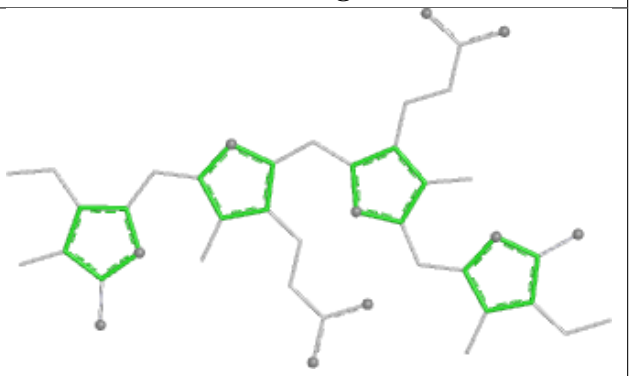
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Bond angles

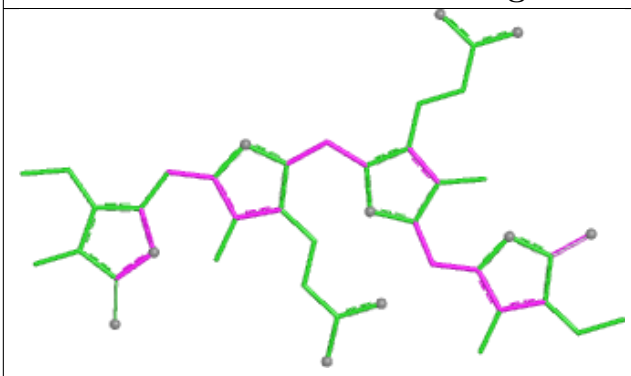


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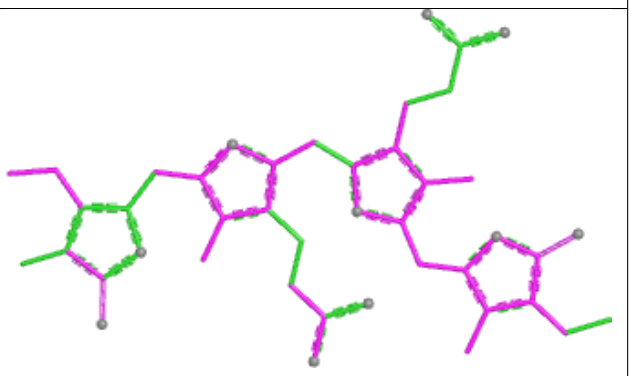


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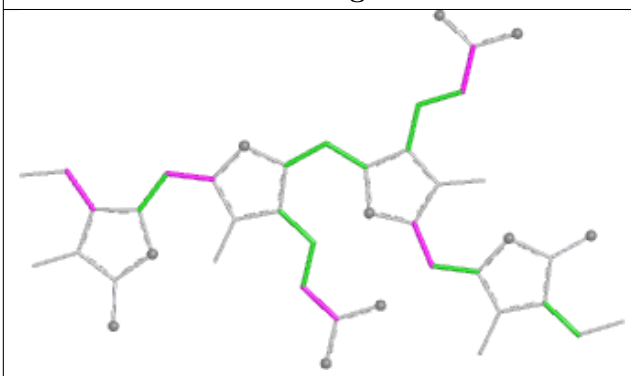
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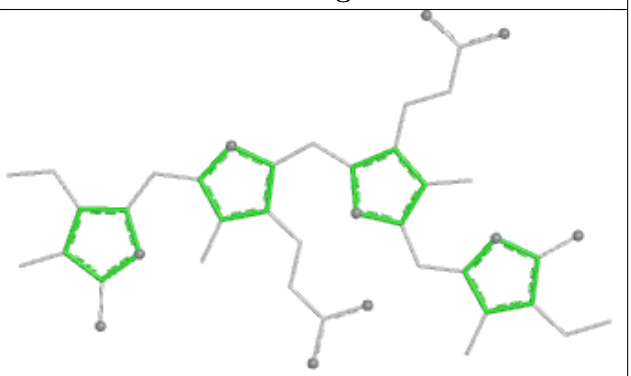
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Bond angles

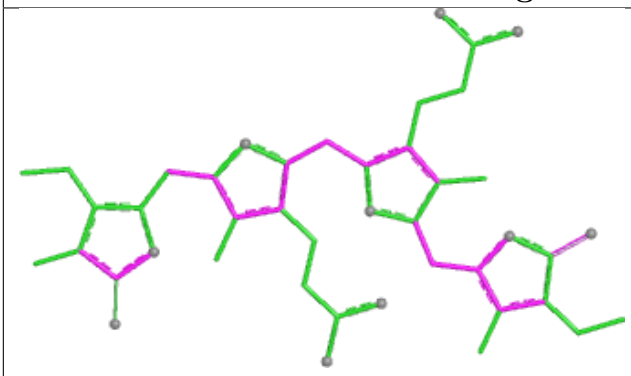


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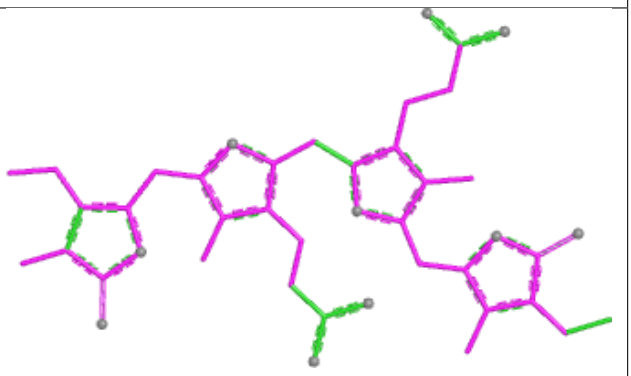


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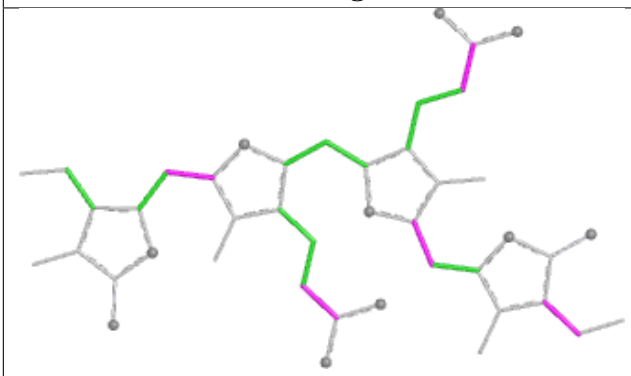
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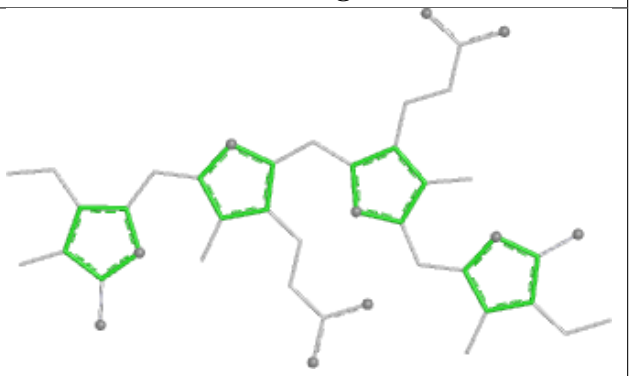
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Bond angles

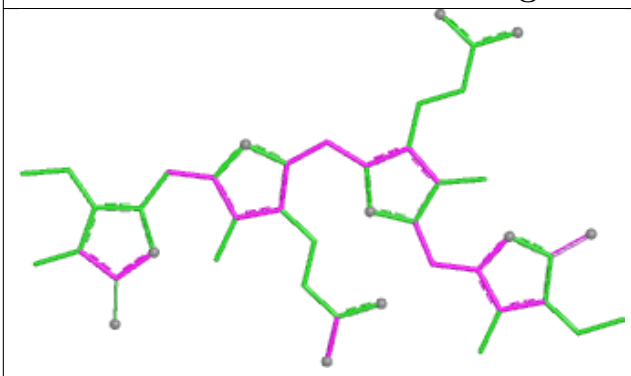


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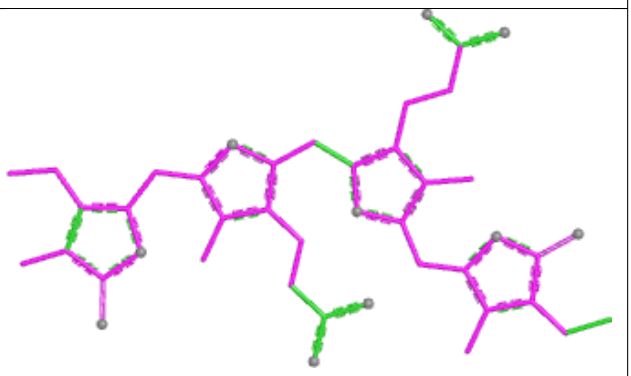


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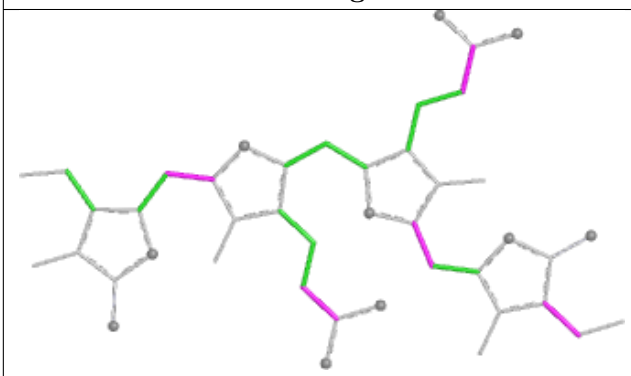
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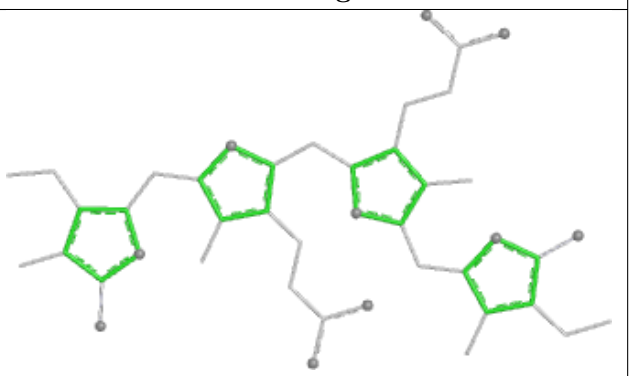
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Bond angles

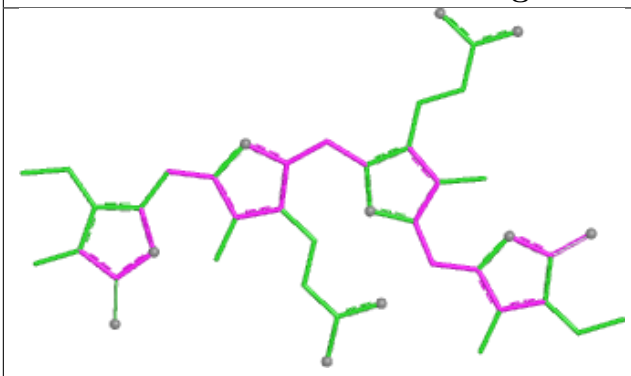


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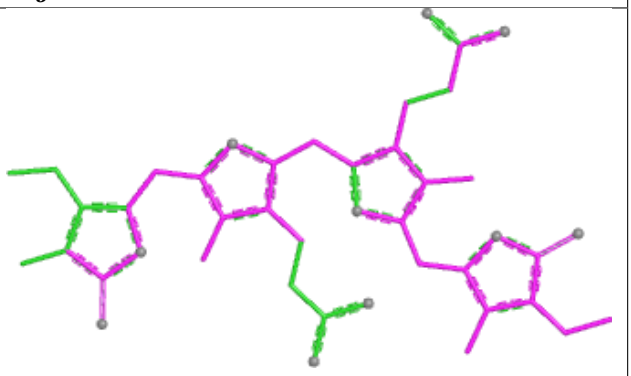


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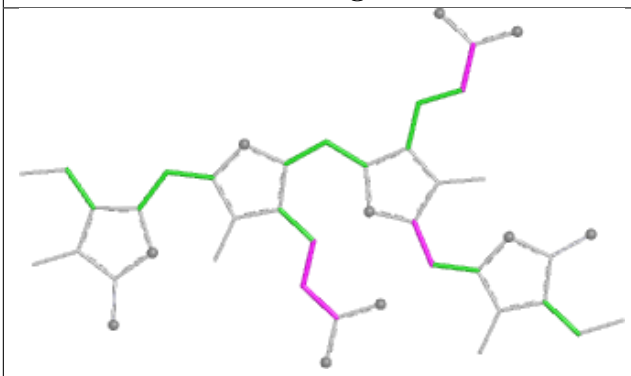
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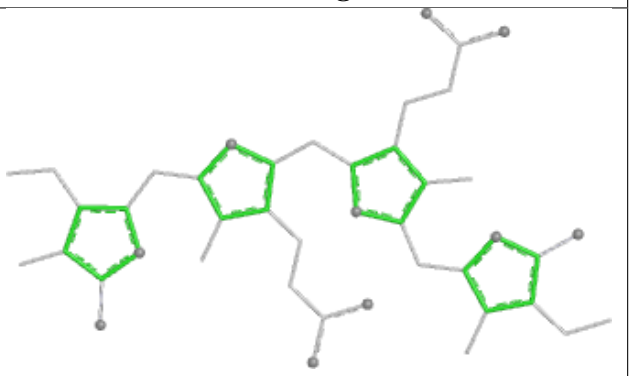
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Bond angles

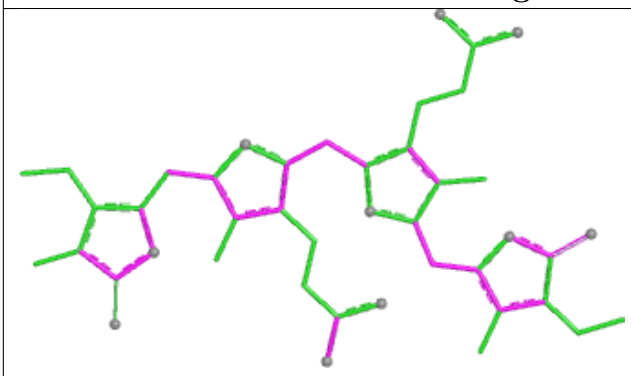


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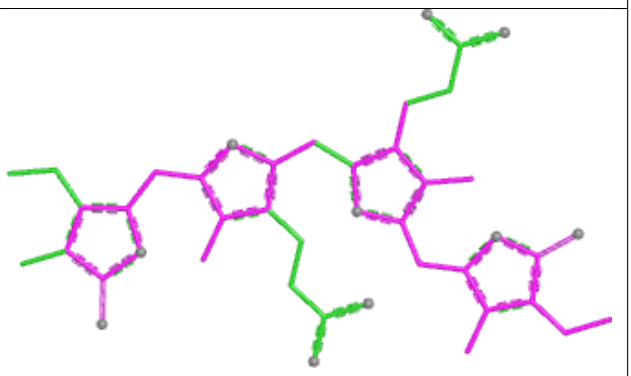


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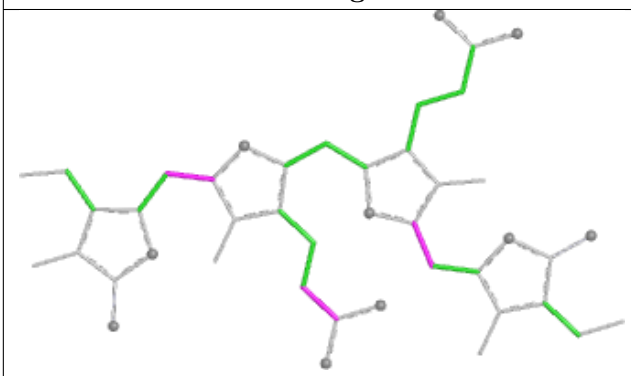
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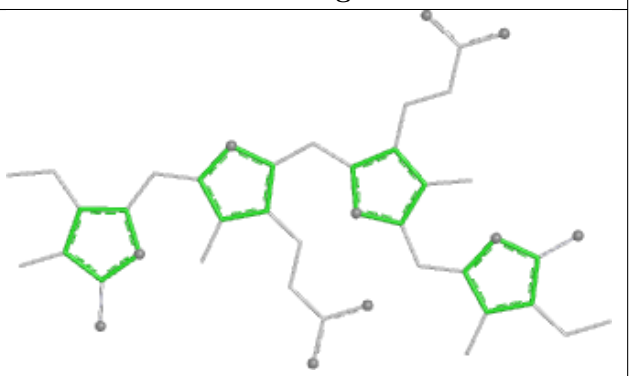
Bond lengths



Bond angles

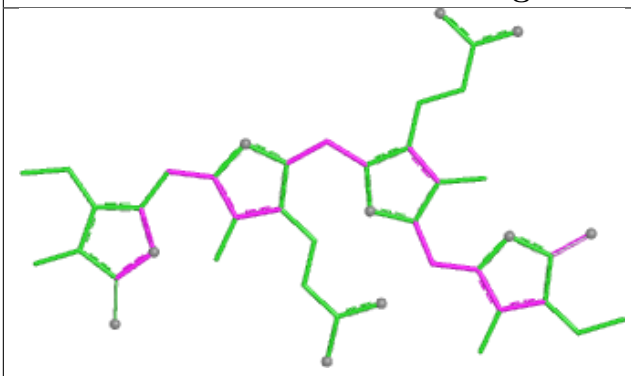


Torsions

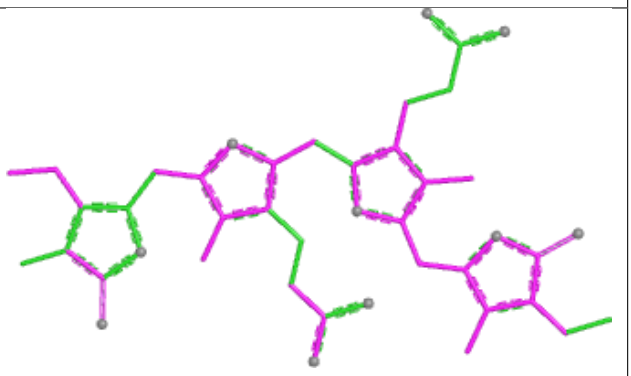


Rings

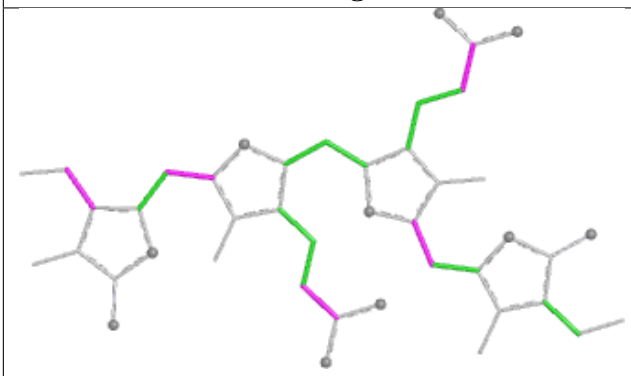
Ligand CYC Y4 201



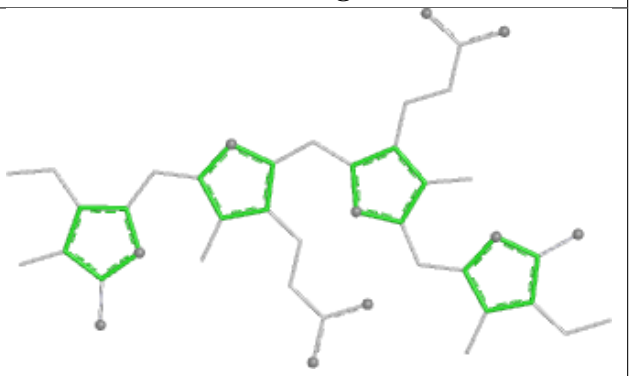
Bond lengths



Bond angles

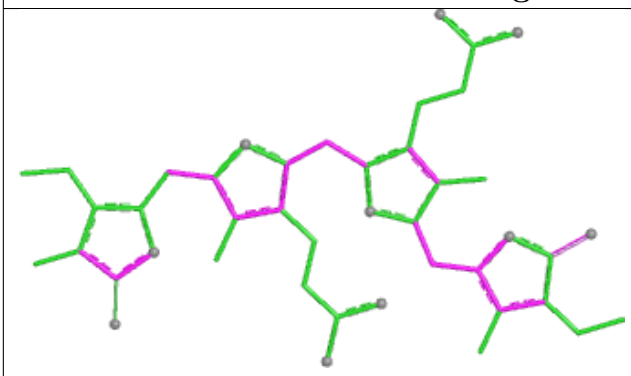


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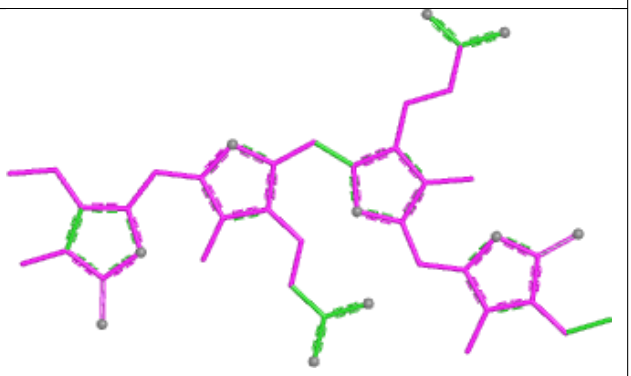


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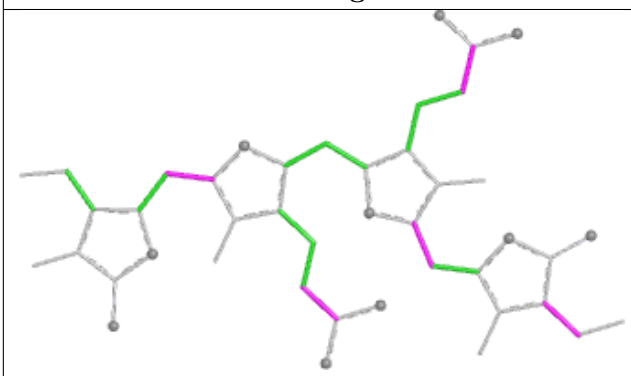
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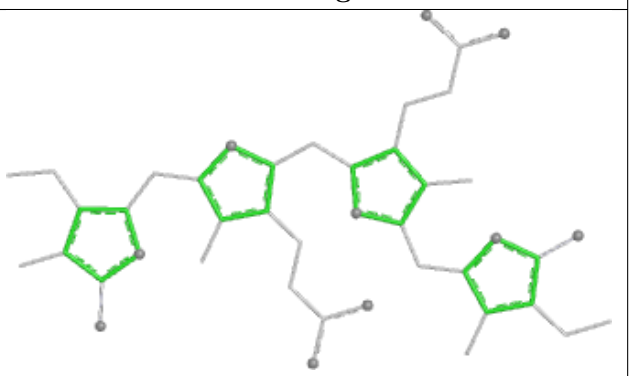
Bond lengths



Bond angles

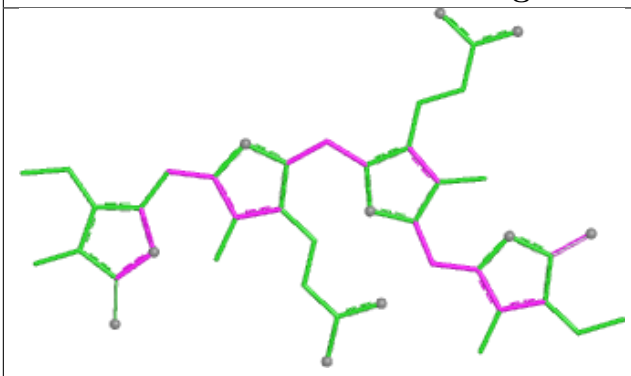


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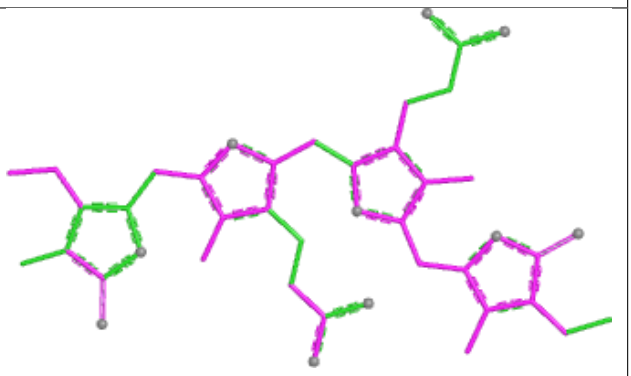


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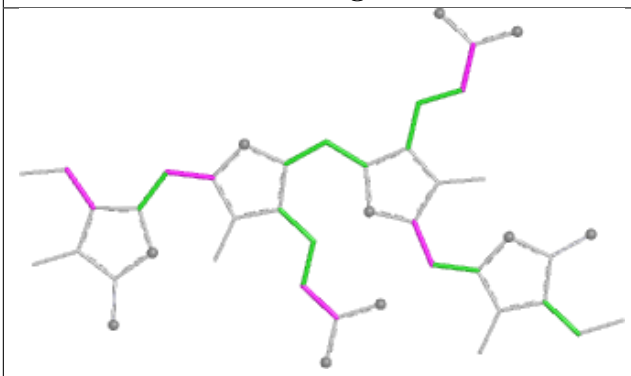
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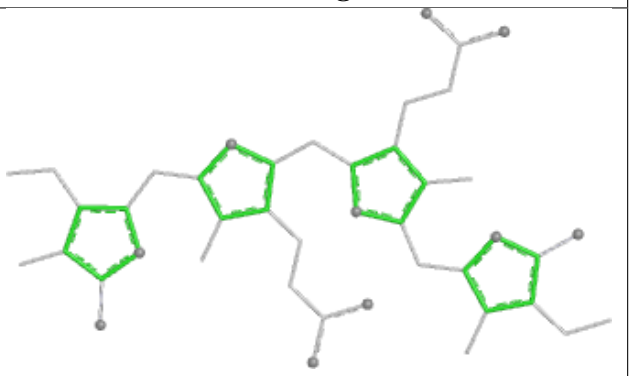
Bond lengths



Bond angles

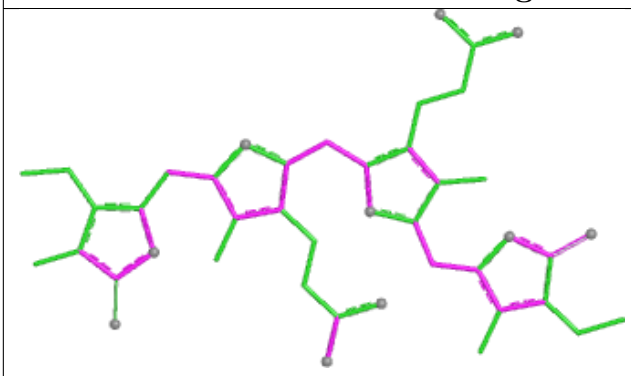


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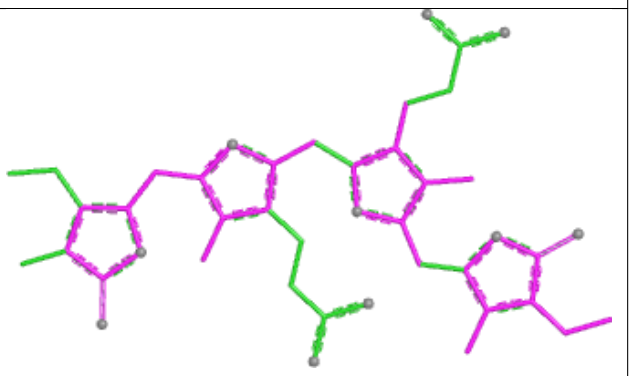


Rings

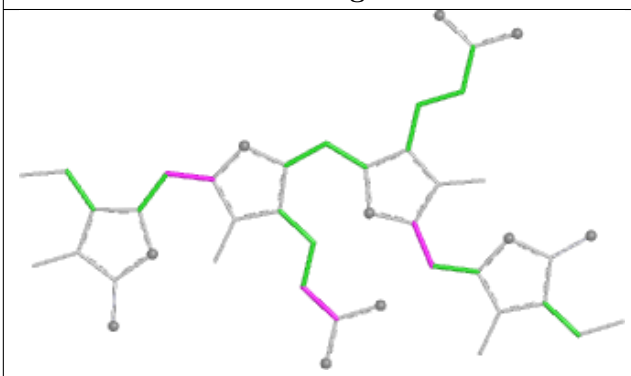
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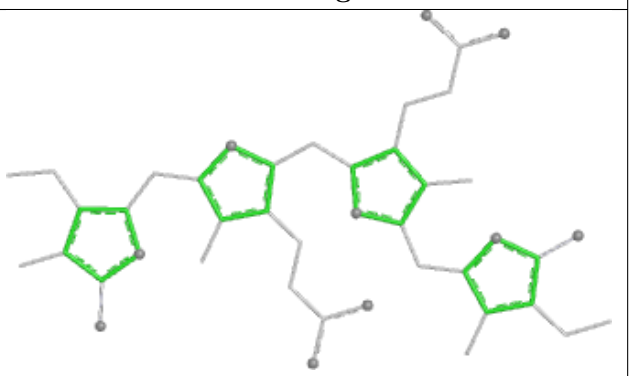
Bond lengths



Bond angles

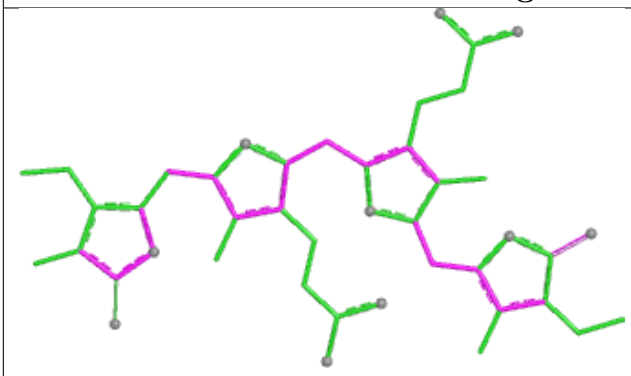


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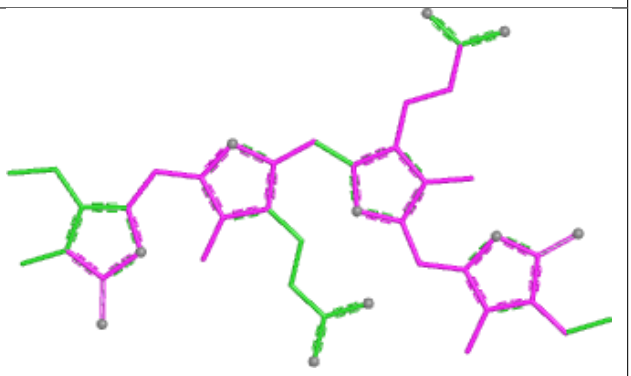


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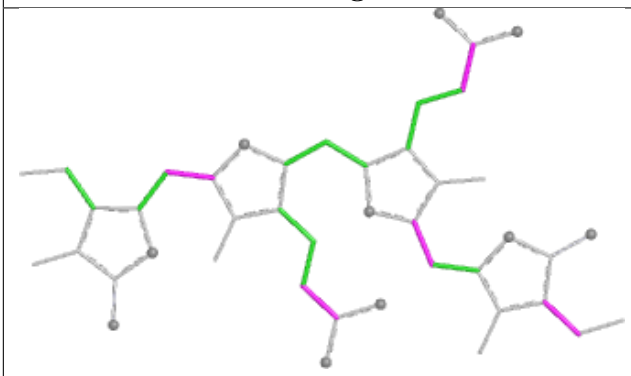
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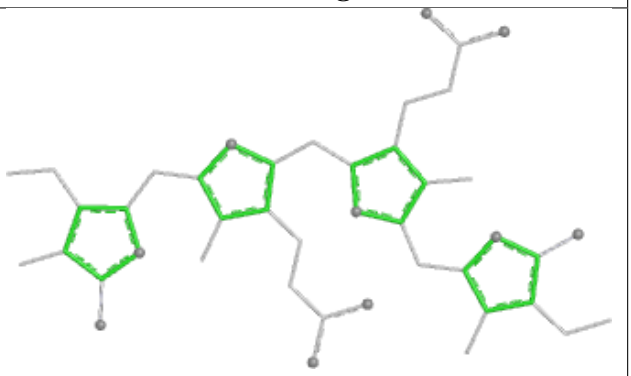
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Bond angles

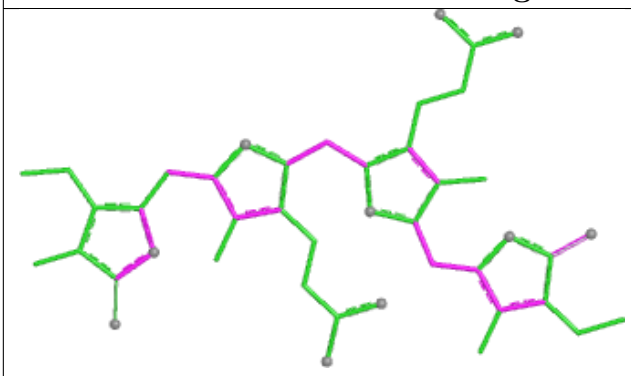


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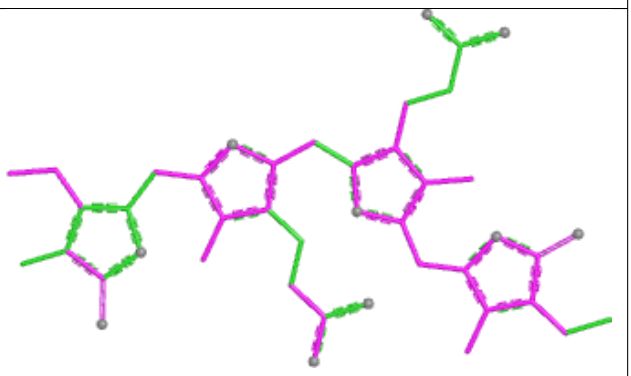


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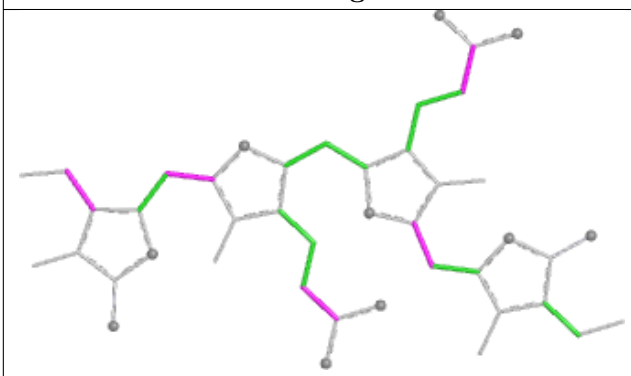
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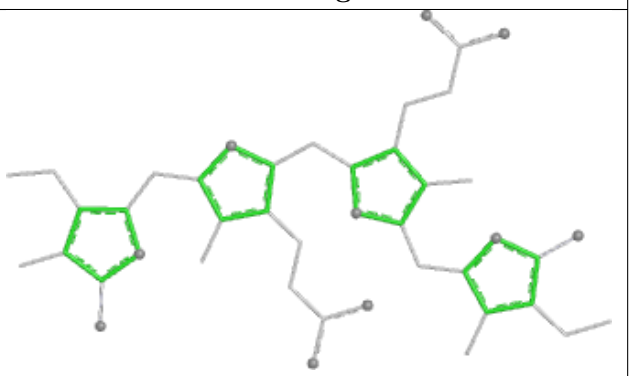
Bond lengths



Bond angles

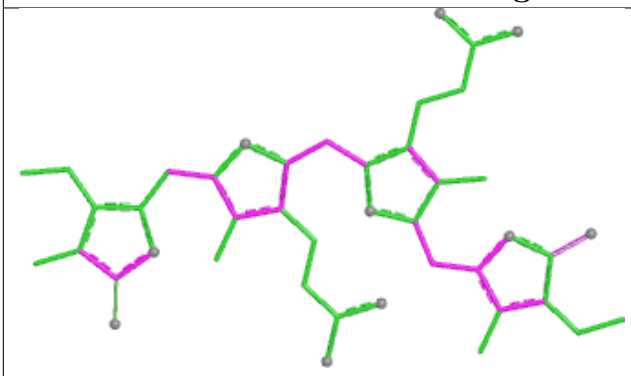


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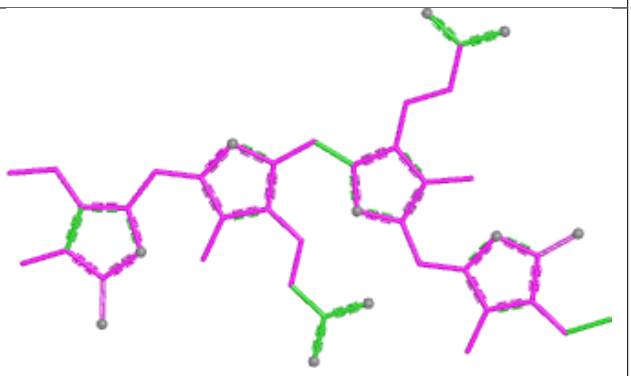


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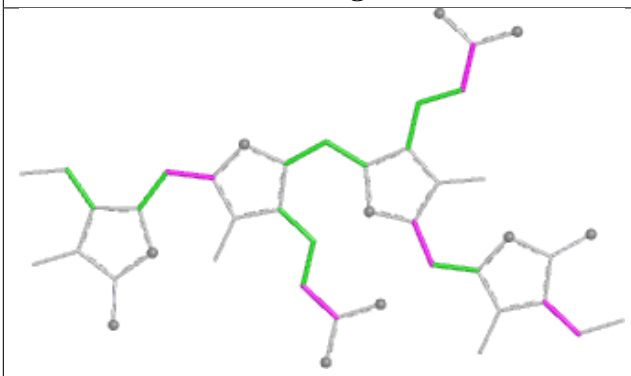
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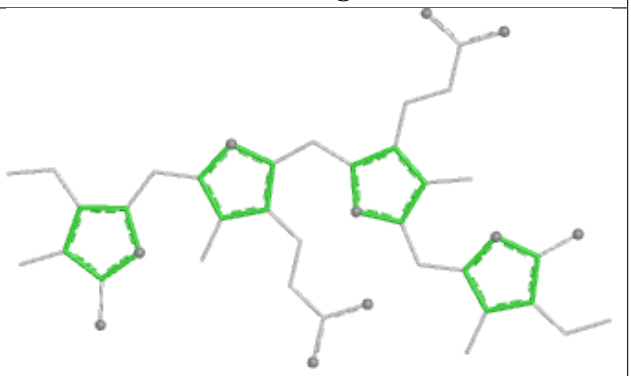
Bond lengths



Bond angles

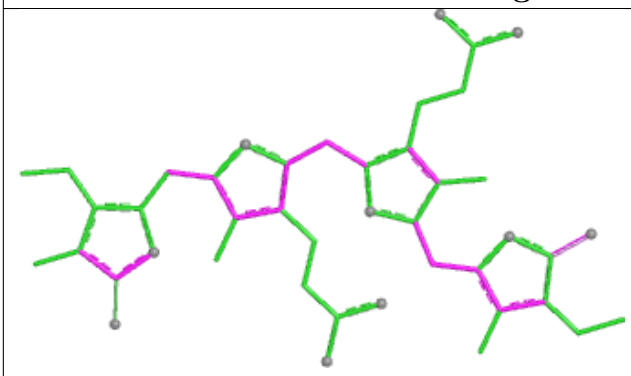


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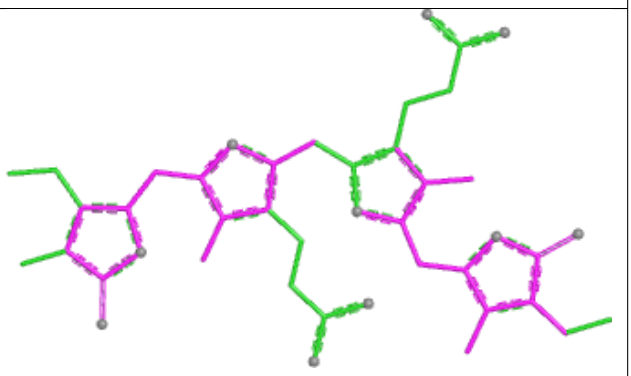


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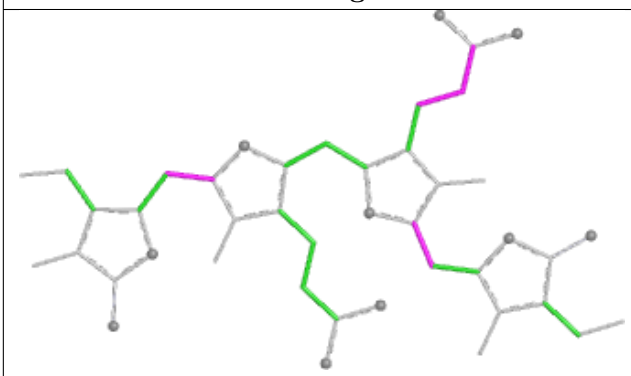
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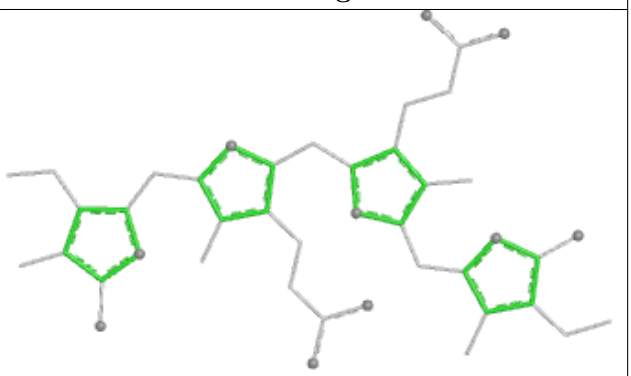
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Bond angles

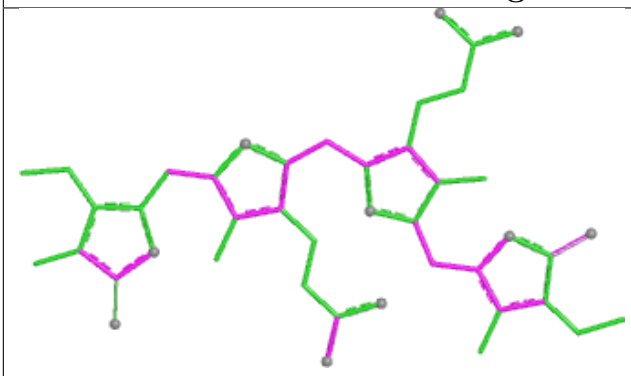


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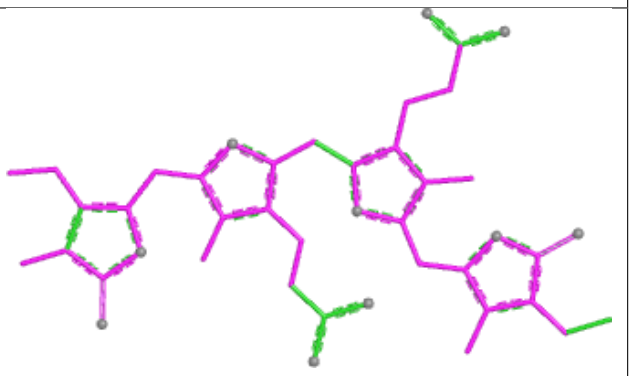


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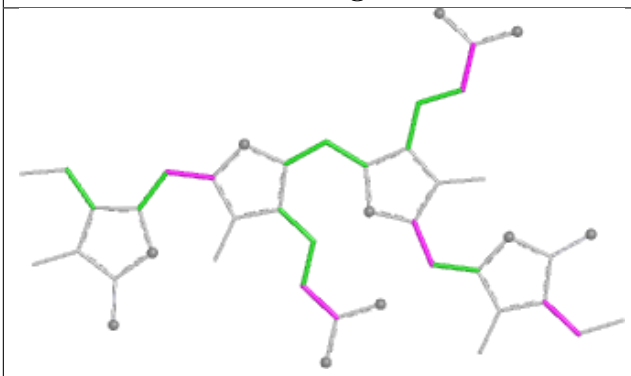
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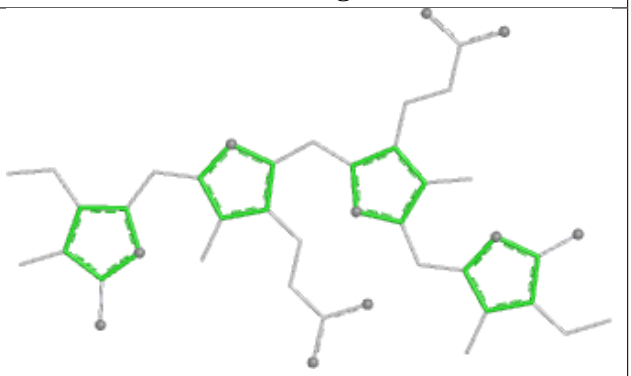
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Bond angles

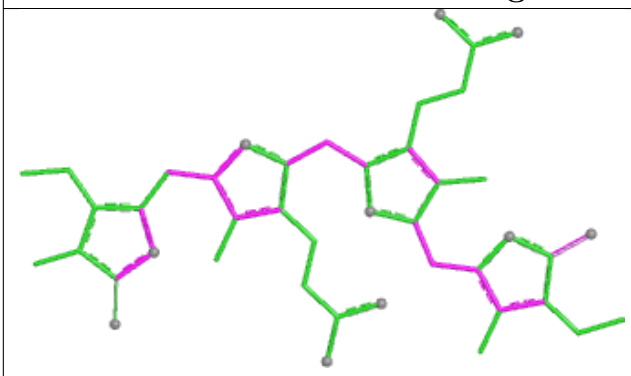


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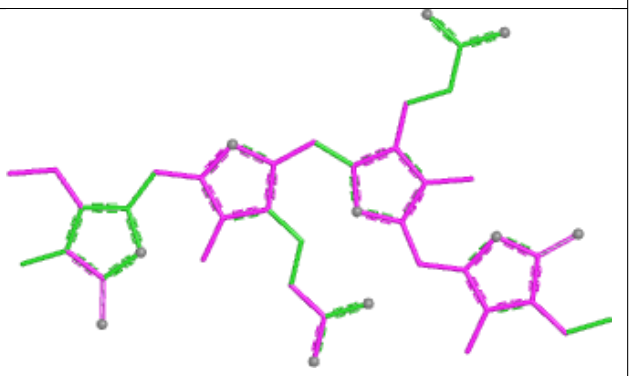


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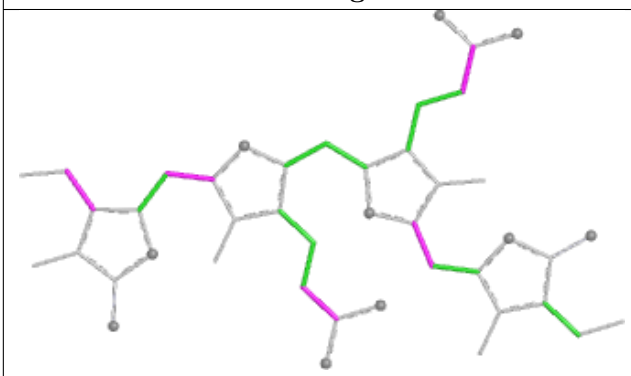
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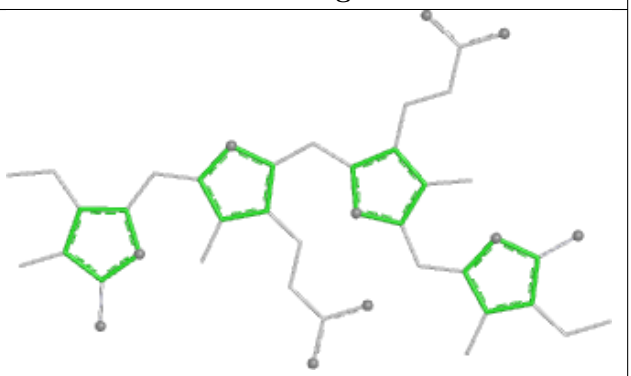
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Bond angles

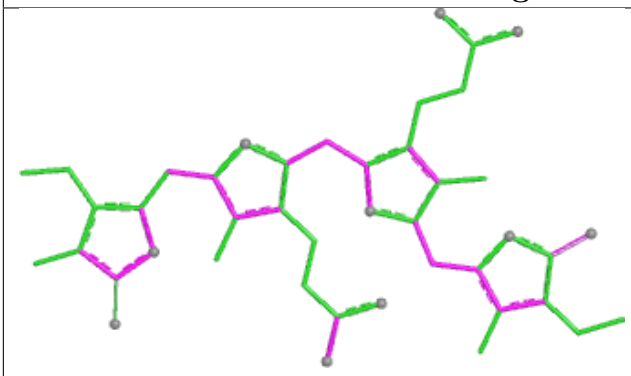


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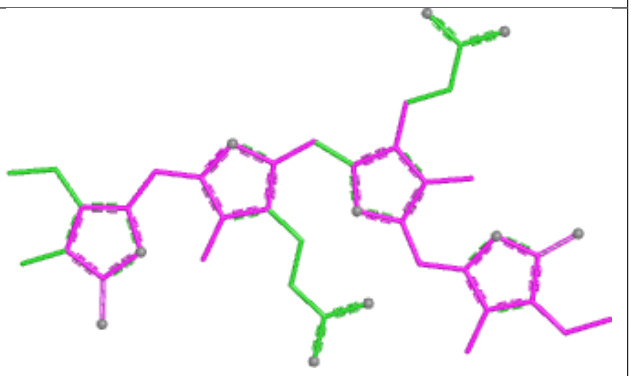


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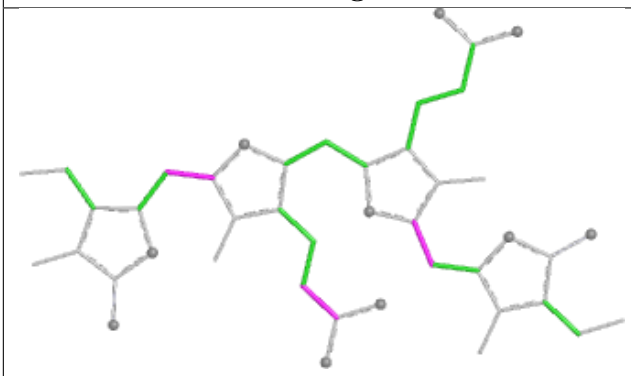
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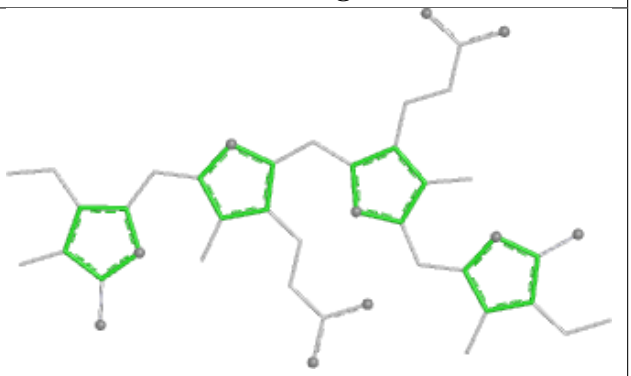
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Bond angles

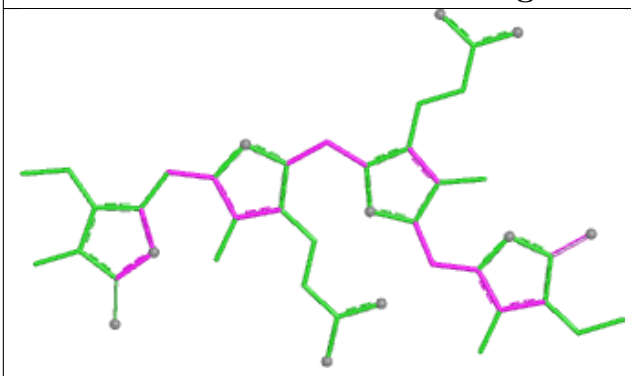


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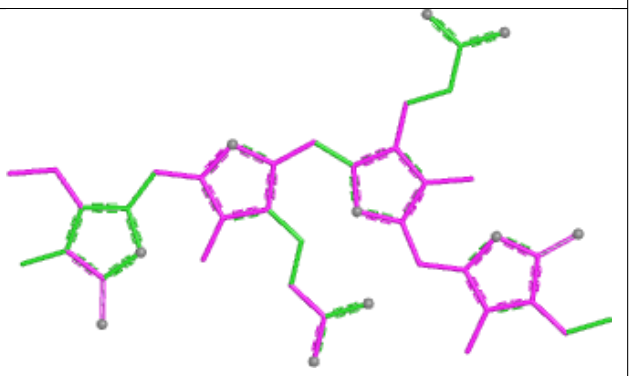


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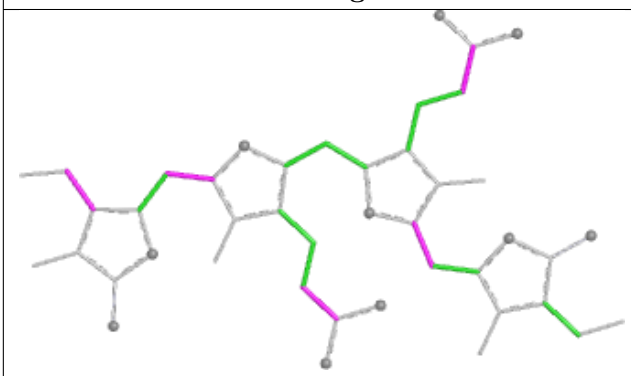
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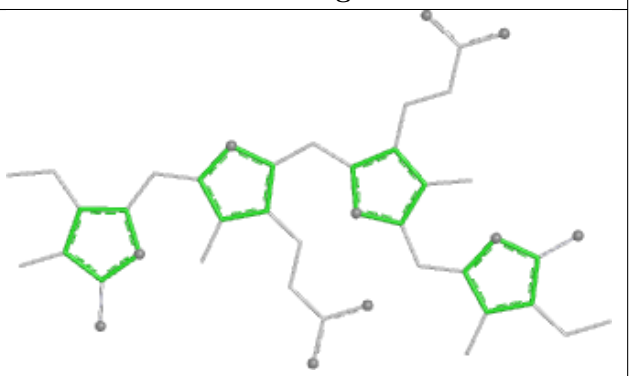
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Bond angles

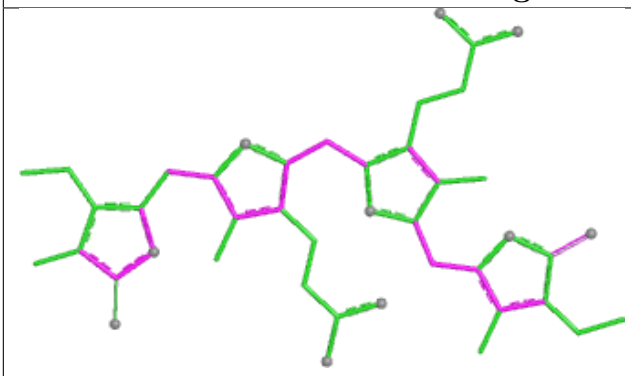


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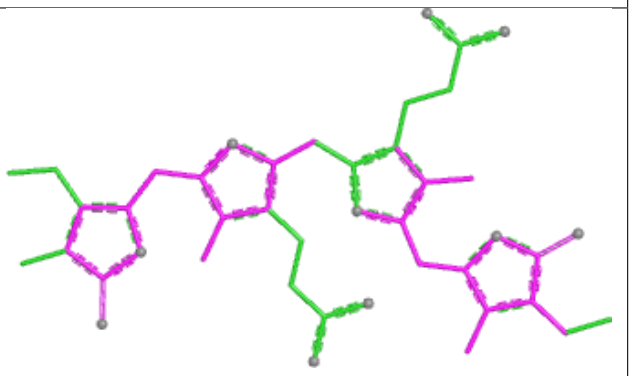


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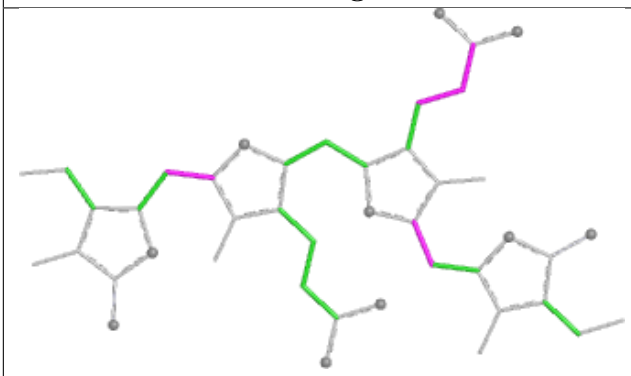
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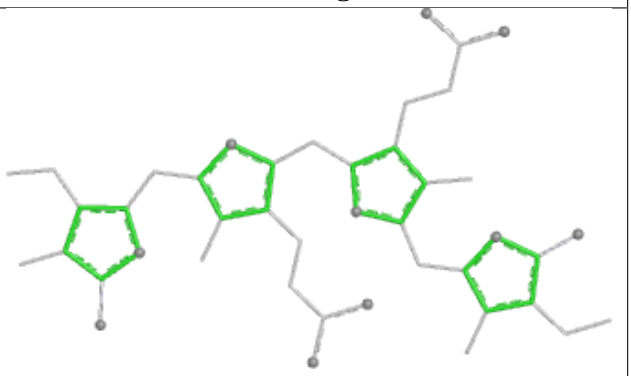
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Bond angles

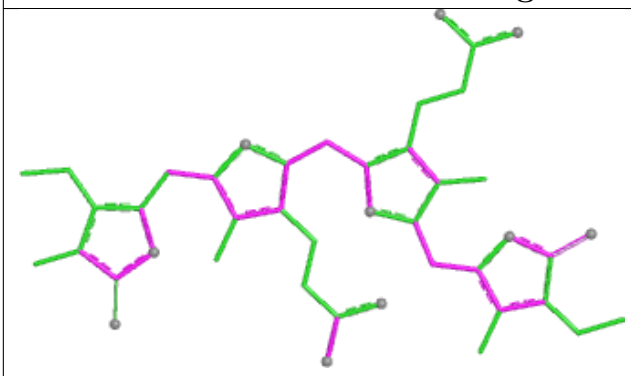


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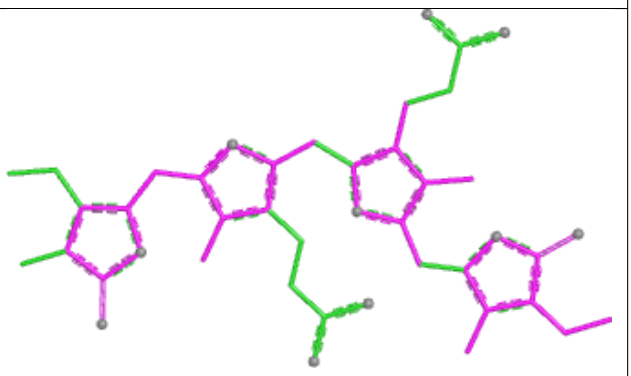


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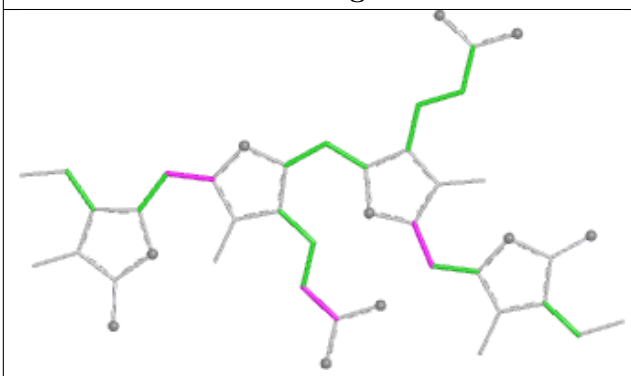
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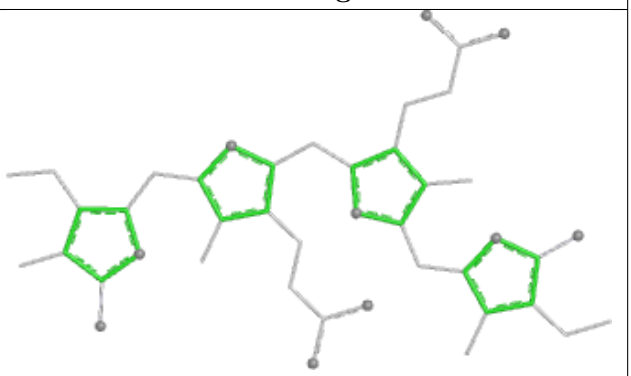
Bond lengths



Bond angles

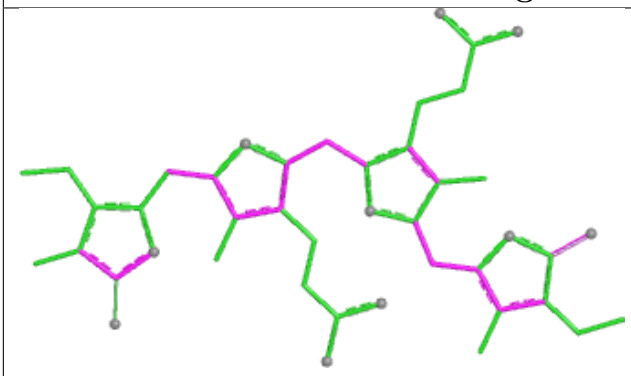


Torsions

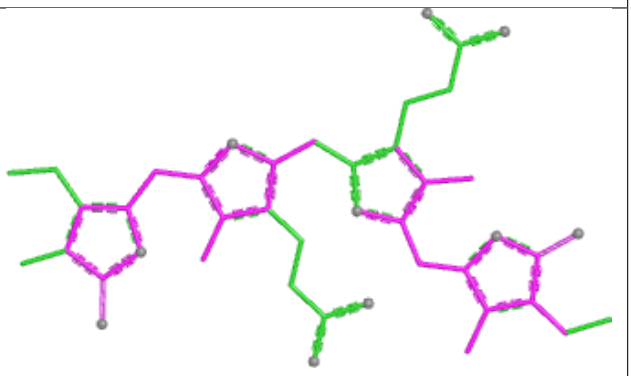


Rings

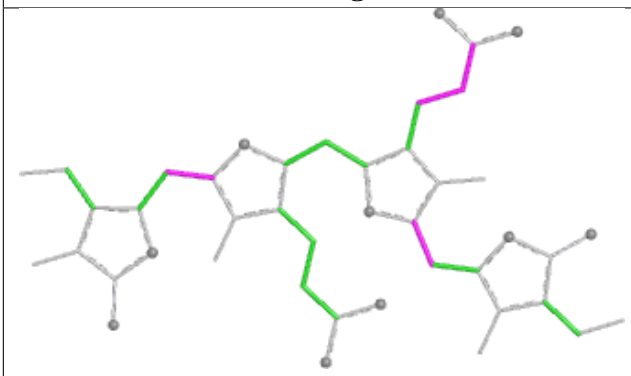
Ligand CYC S5 201



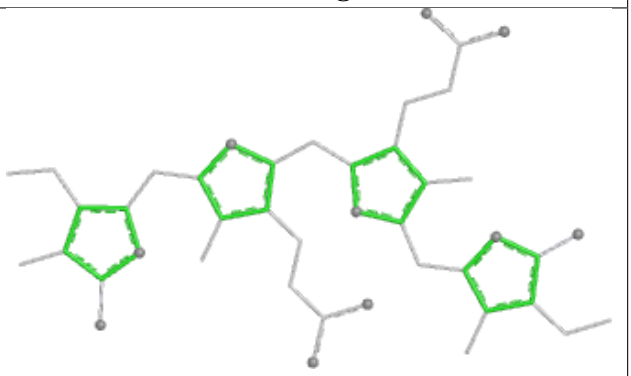
Bond lengths



Bond angles

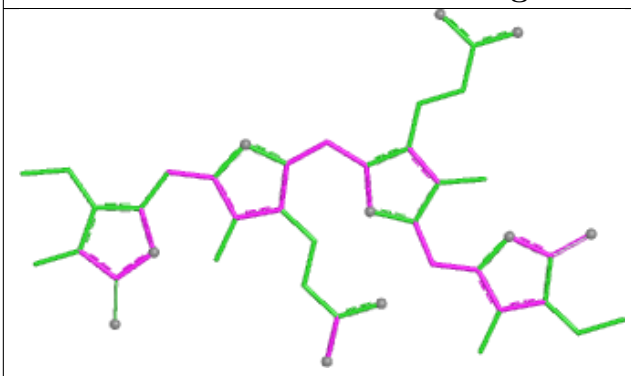


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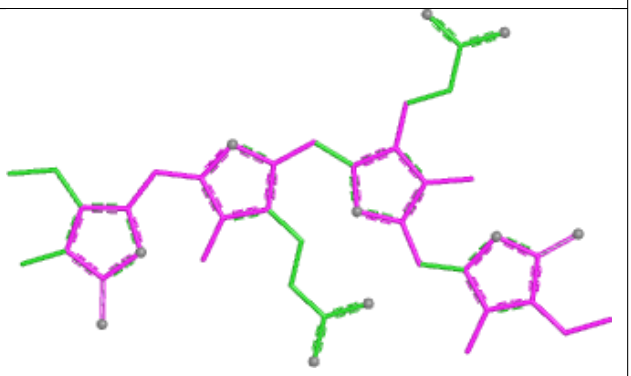


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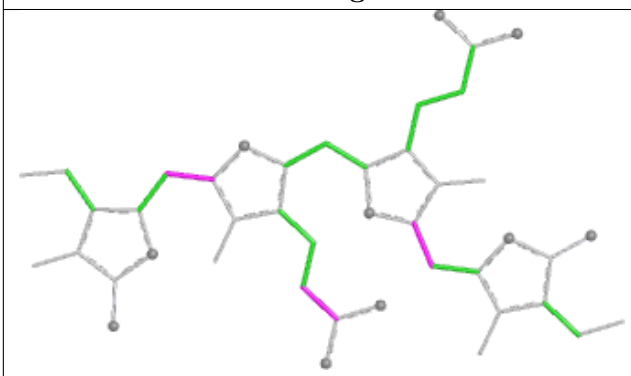
Ligand CYC TA 301



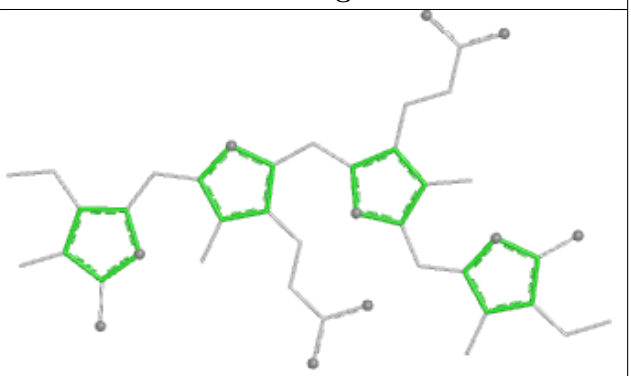
Bond lengths



Bond angles

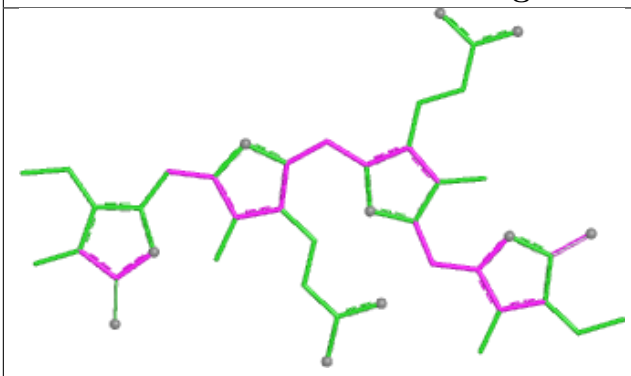


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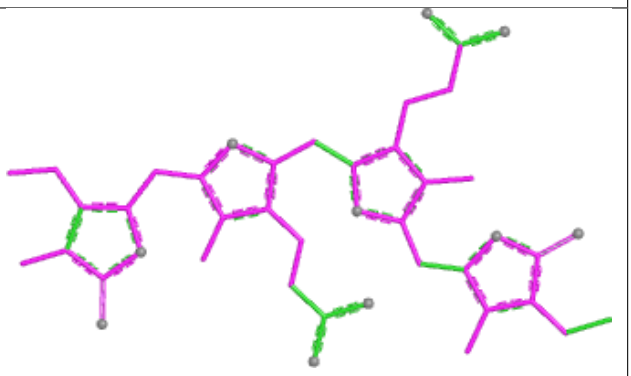


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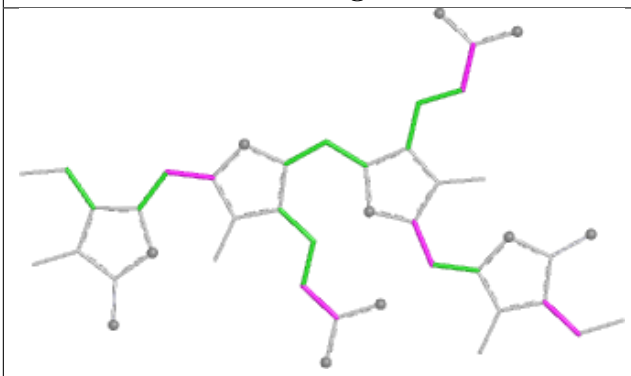
Ligand CYC V8 201



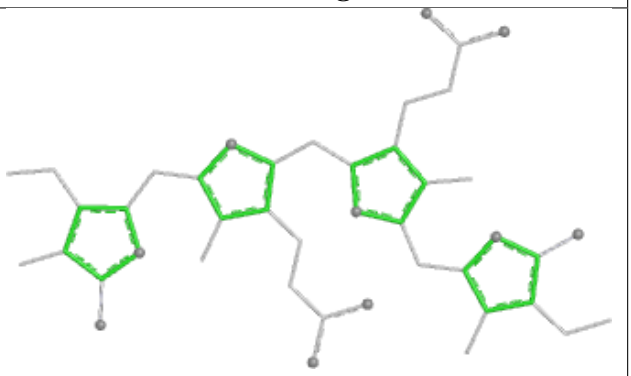
Bond lengths



Bond angles

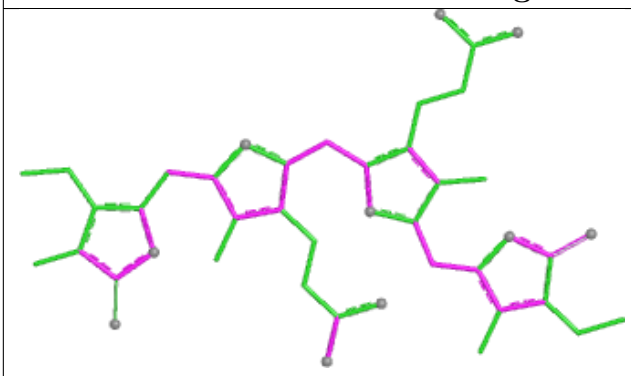


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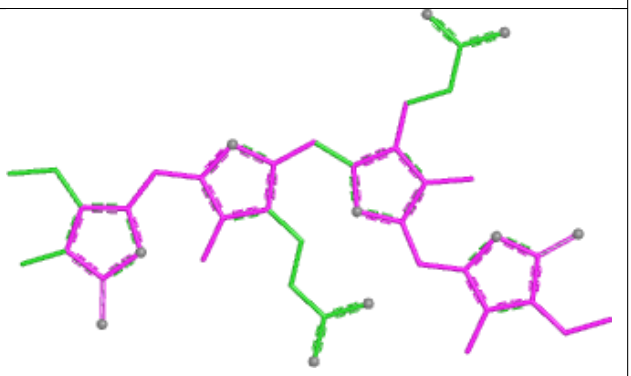


Rings

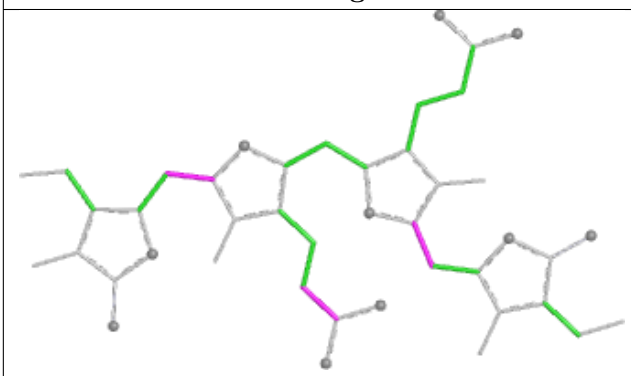
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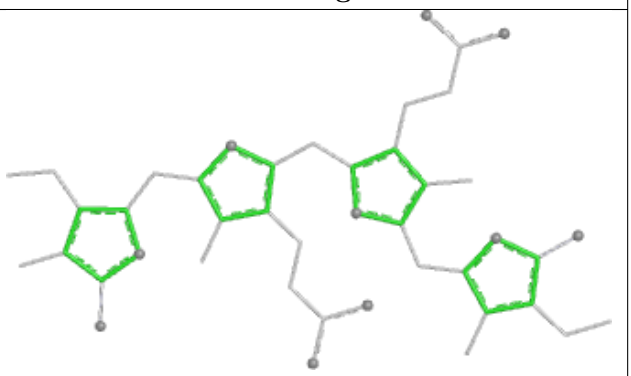
Bond lengths



Bond angles

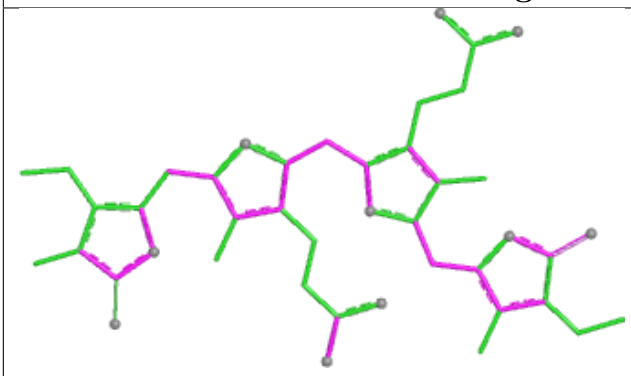


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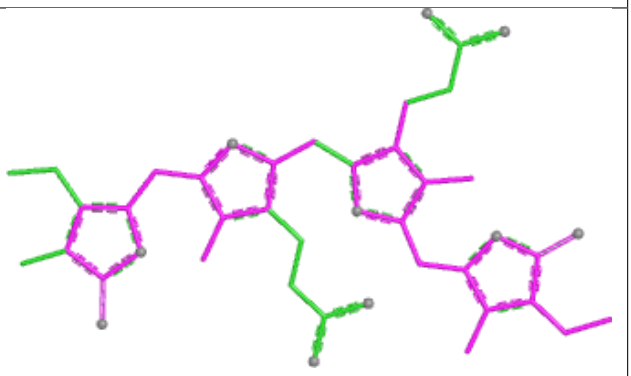


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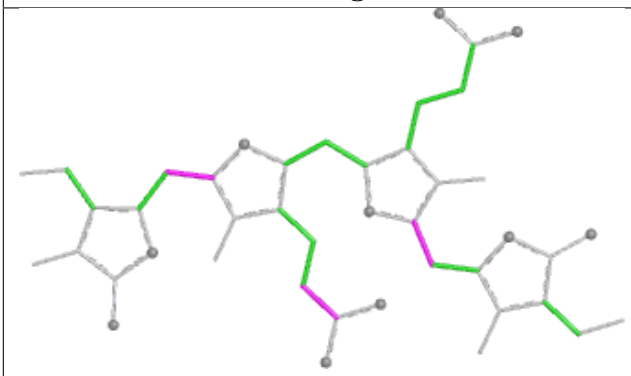
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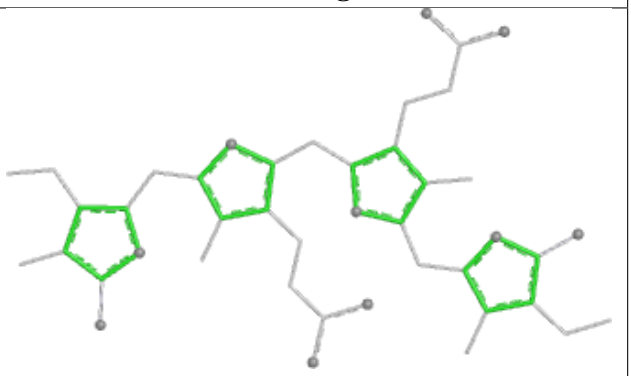
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Bond angles

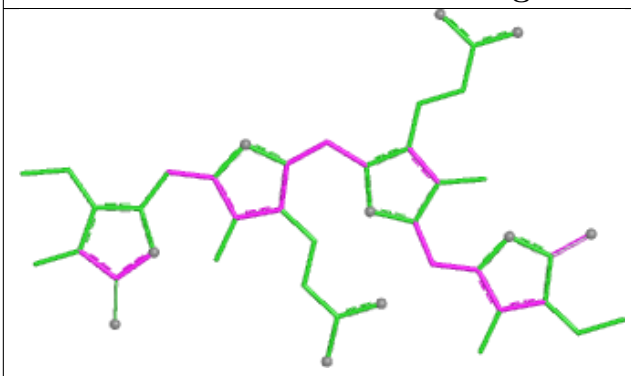


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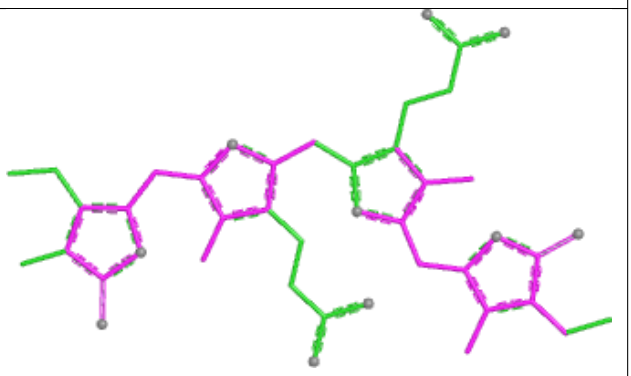


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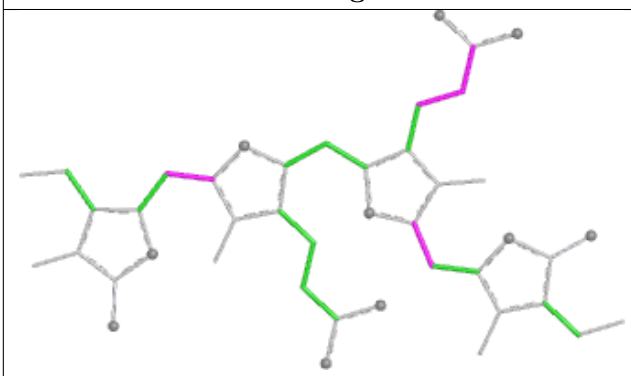
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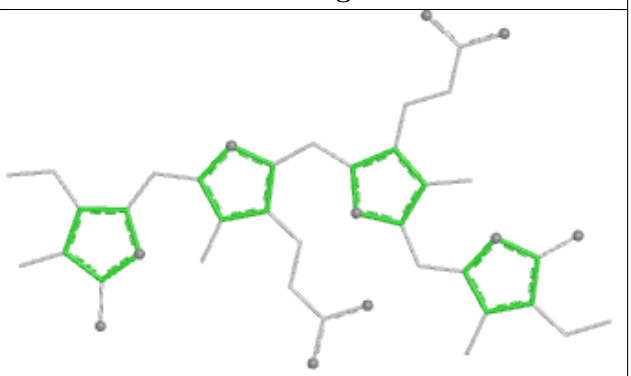
Bond lengths



Bond angles

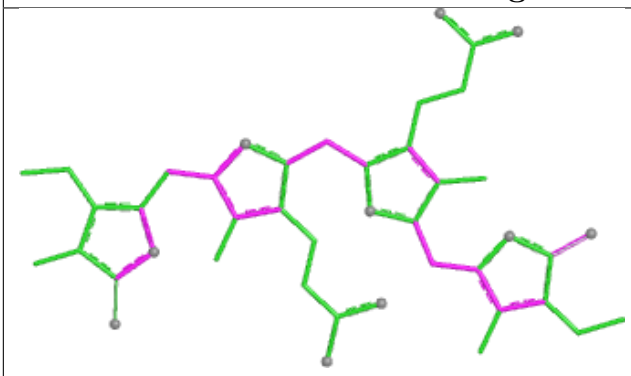


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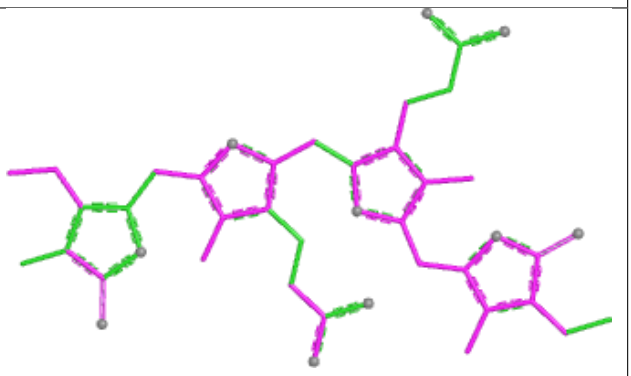


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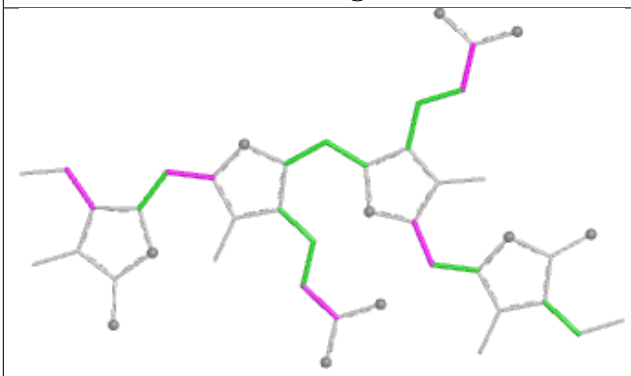
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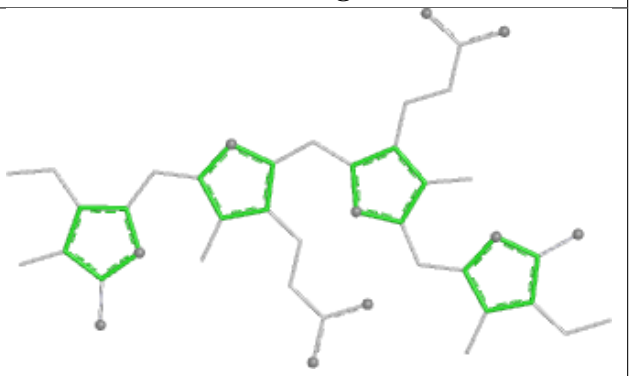
Bond lengths



Bond angles

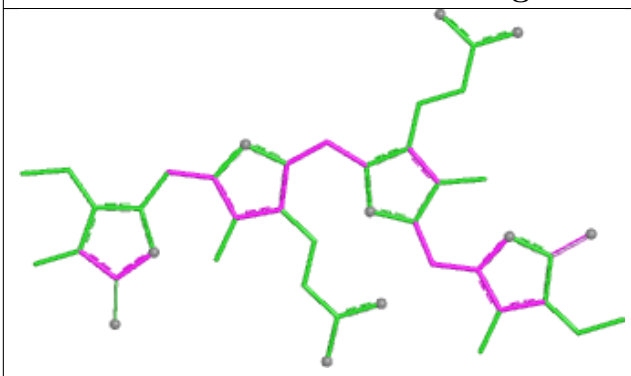


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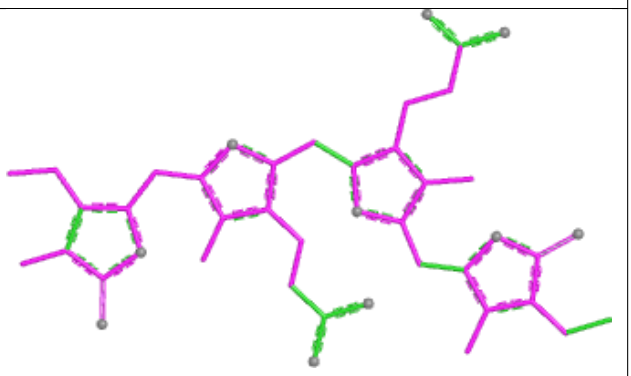


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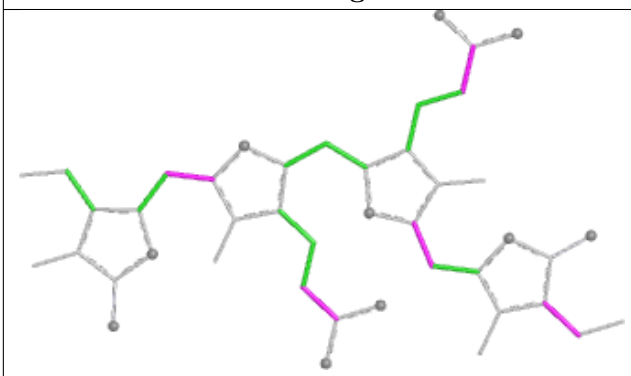
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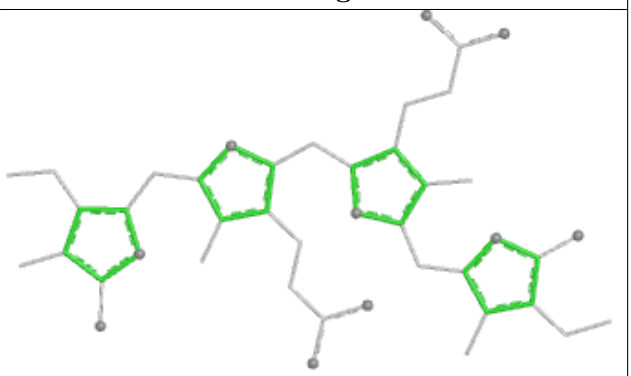
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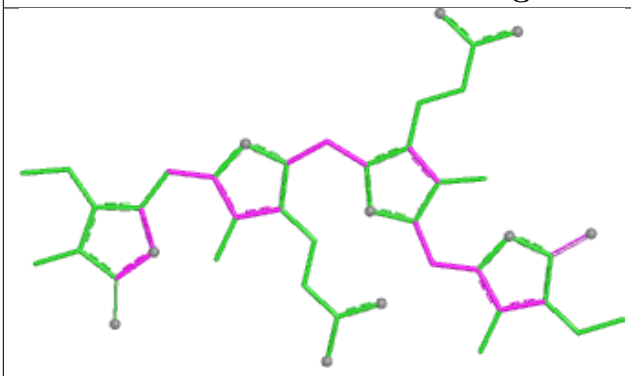


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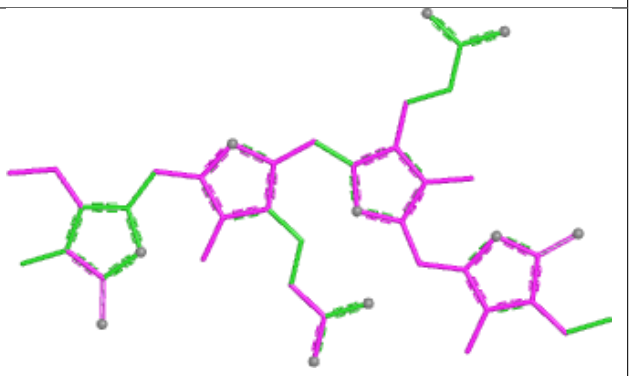


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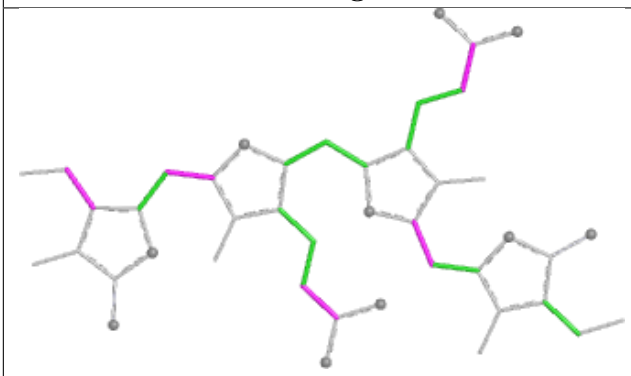
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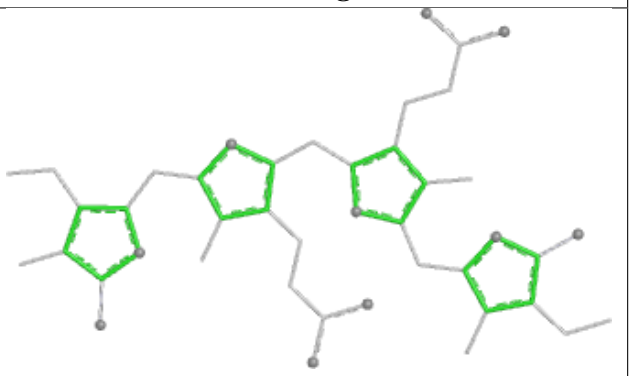
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Bond angles

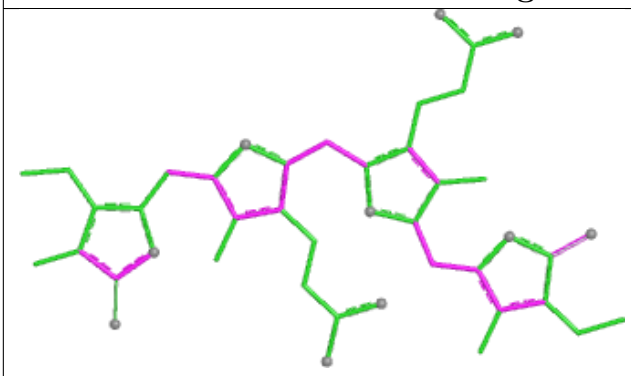


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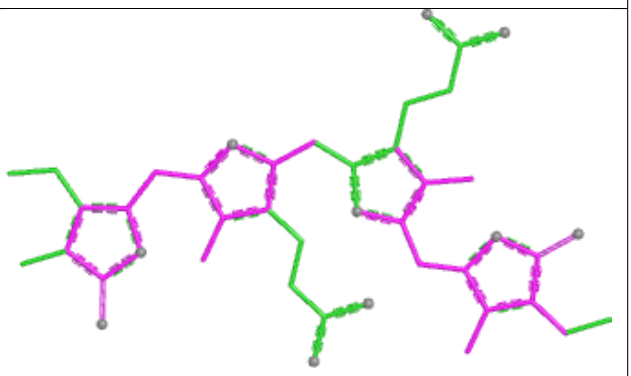


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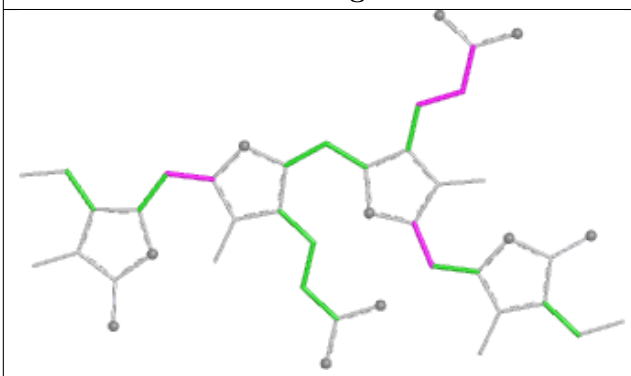
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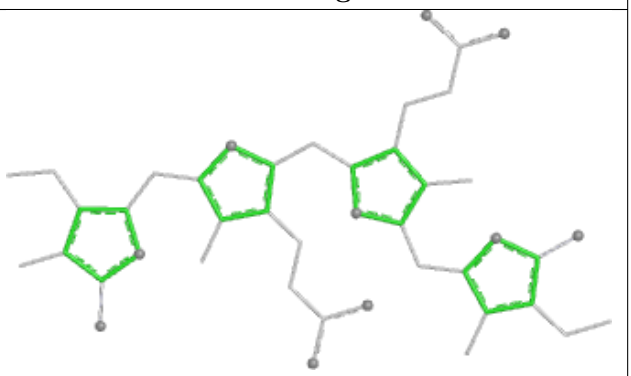
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Bond angles

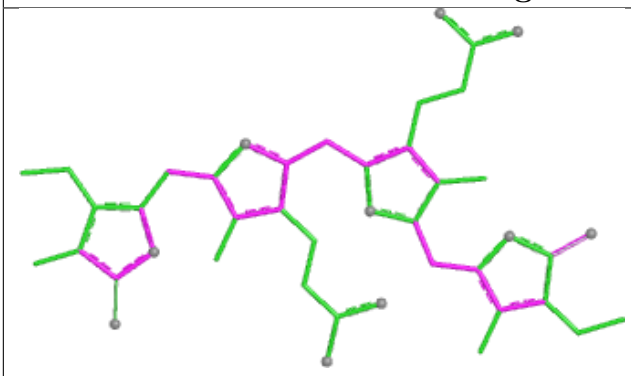


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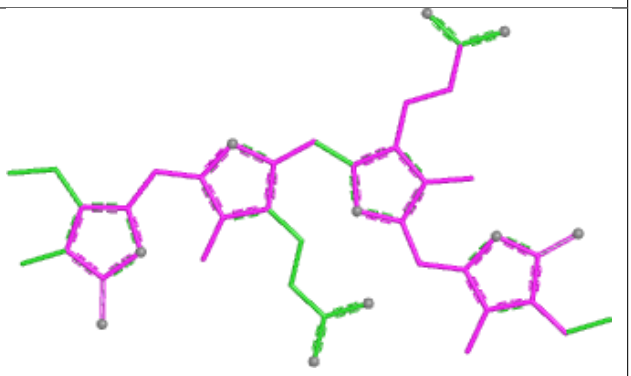


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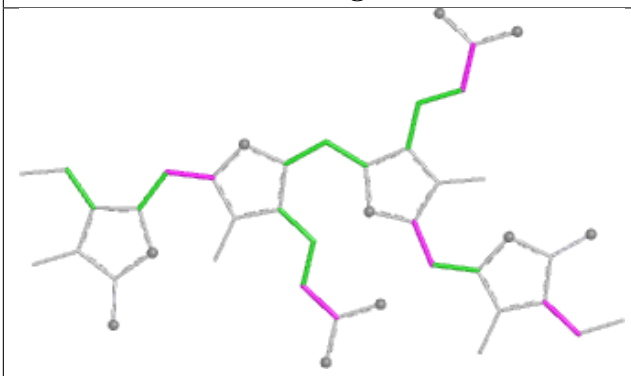
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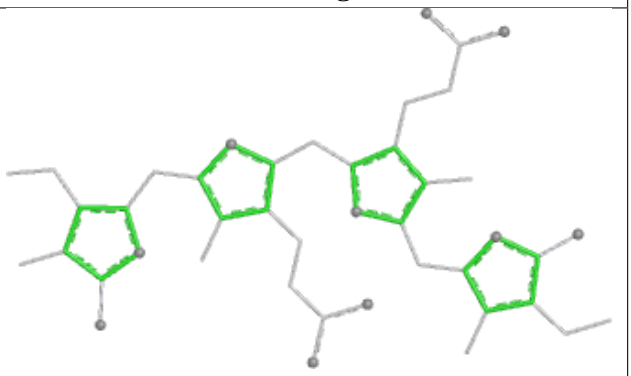
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Bond angles

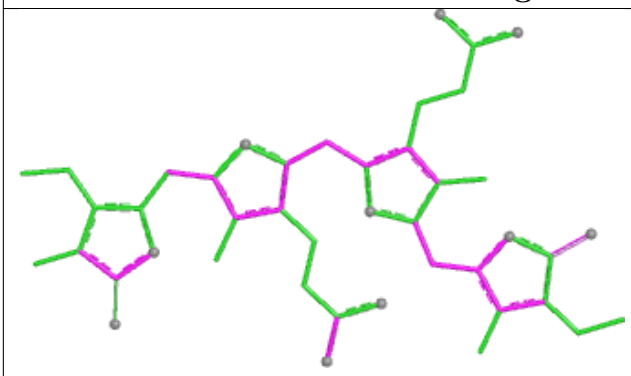


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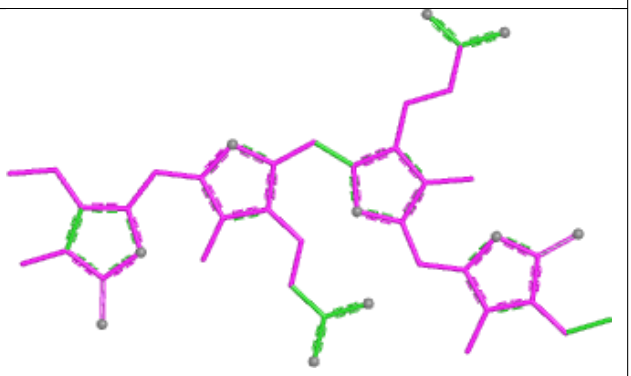


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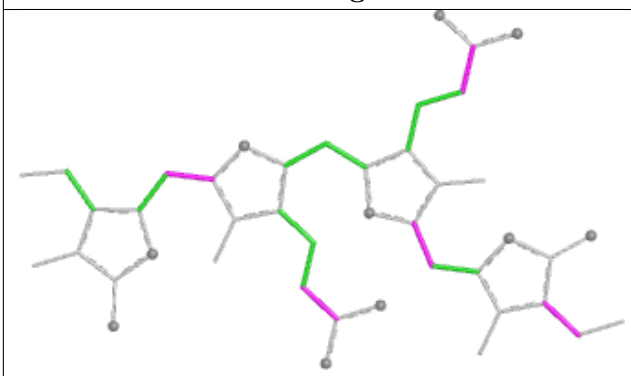
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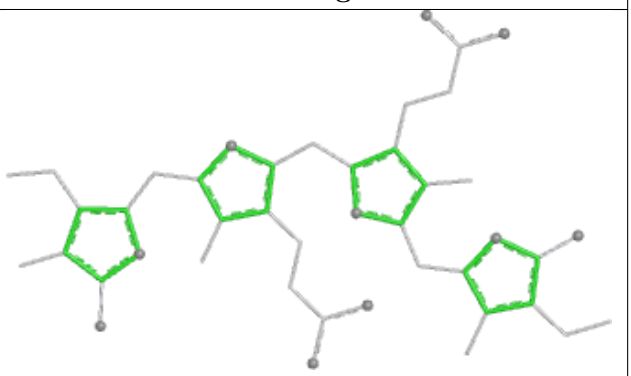
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Bond angles

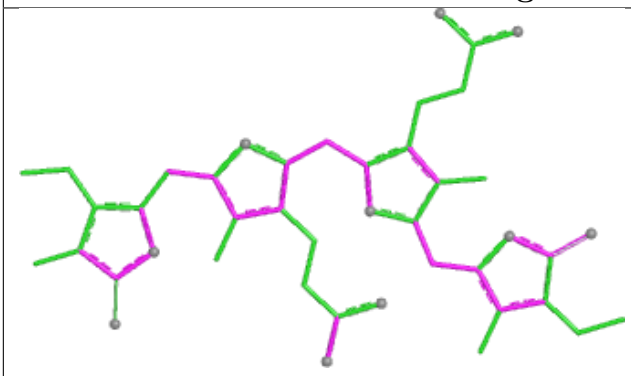


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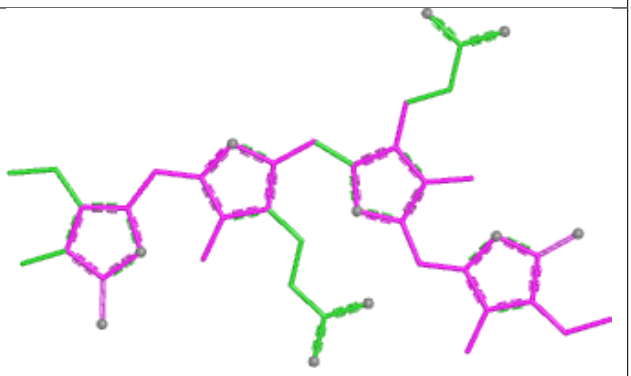


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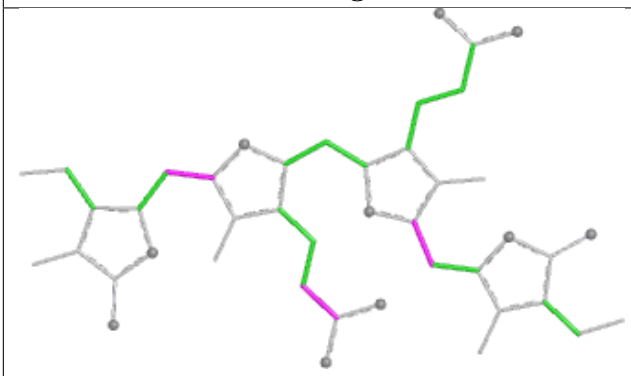
Ligand CYC J3 202



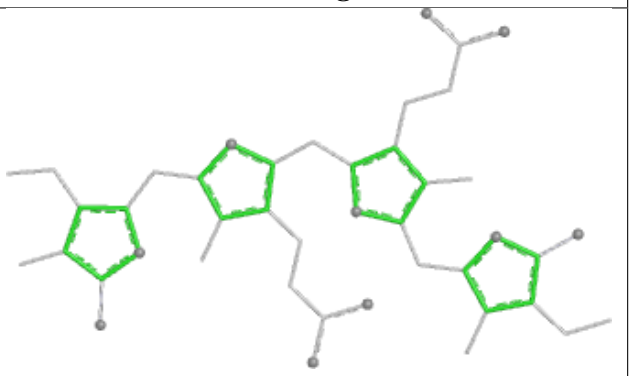
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Bond angles

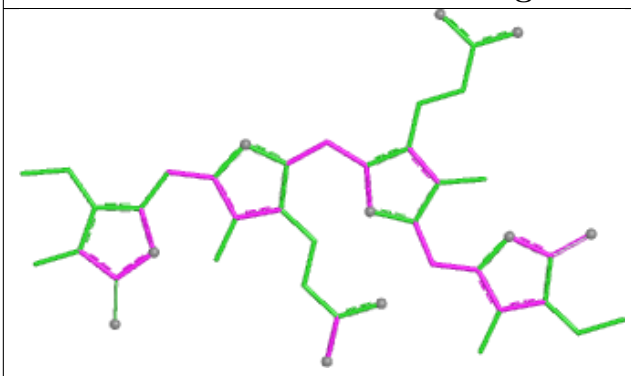


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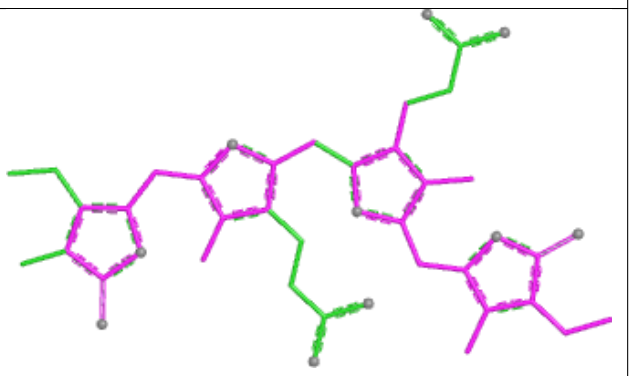


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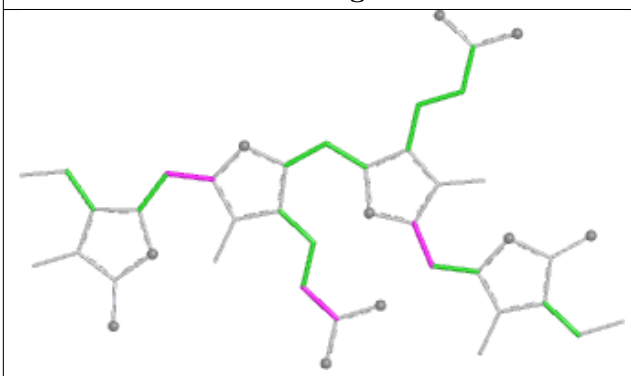
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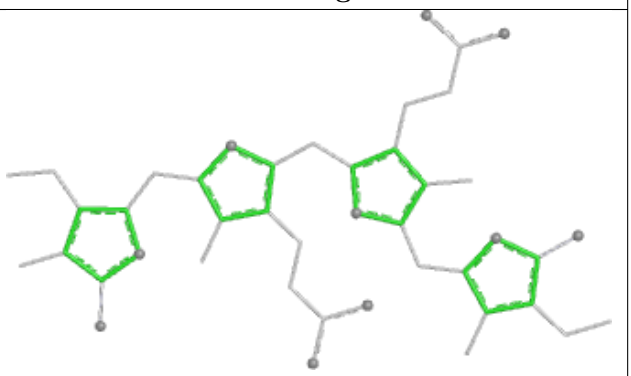
Bond lengths



Bond angles

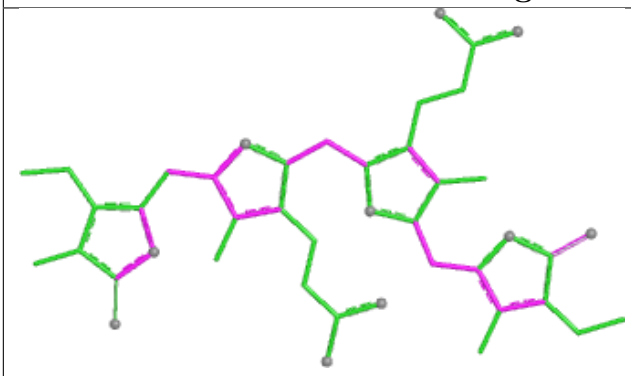


Torsions

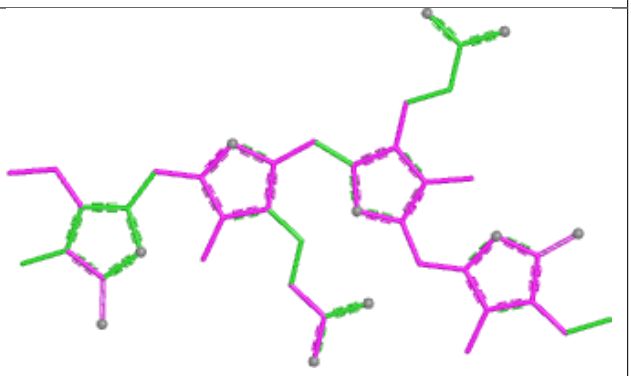


Rings

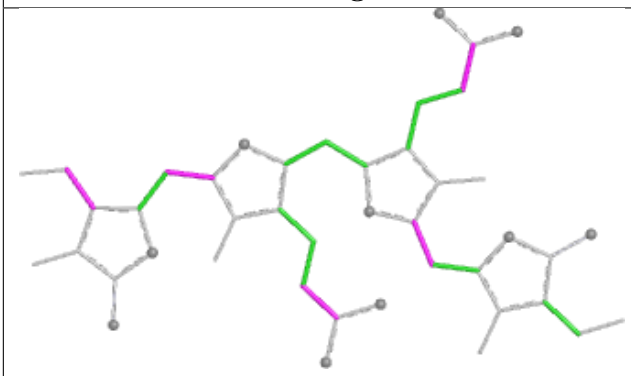
Ligand CYC F4 201



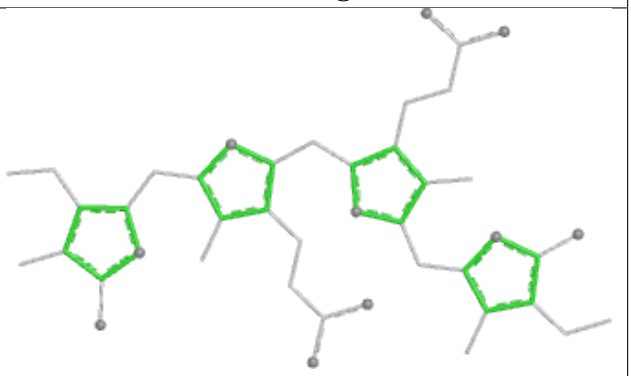
Bond lengths



Bond angles

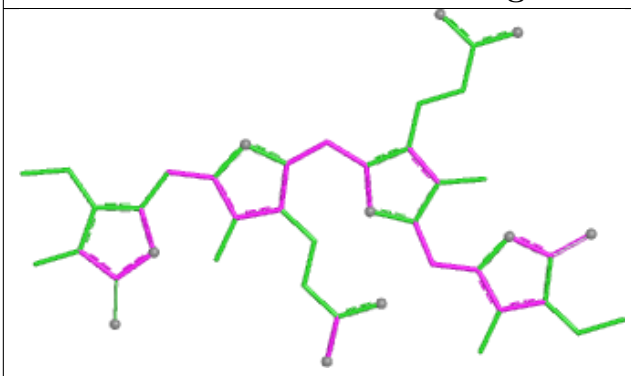


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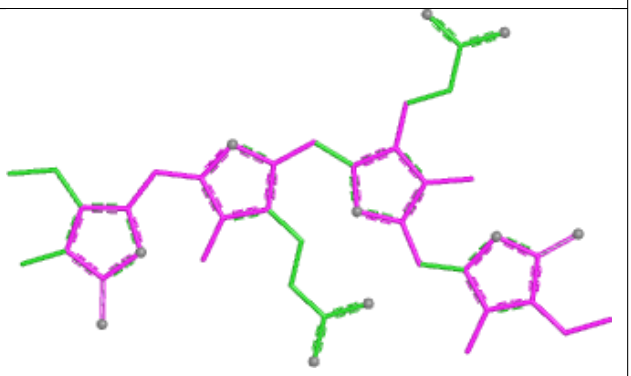


Rings

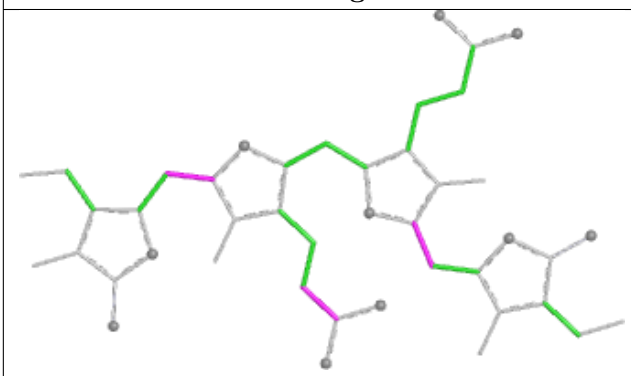
Ligand CYC HA 202



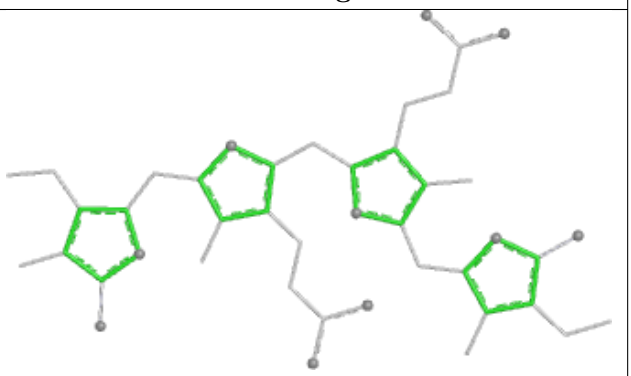
Bond lengths



Bond angles

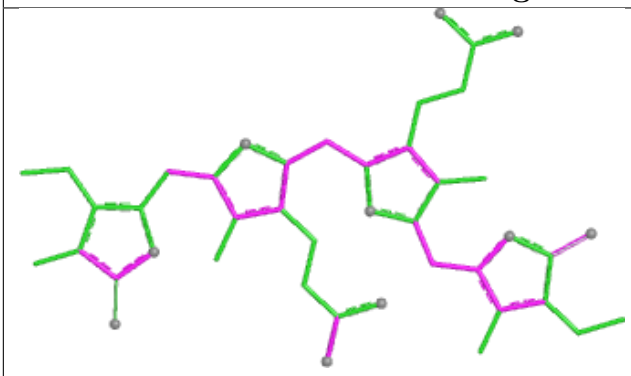


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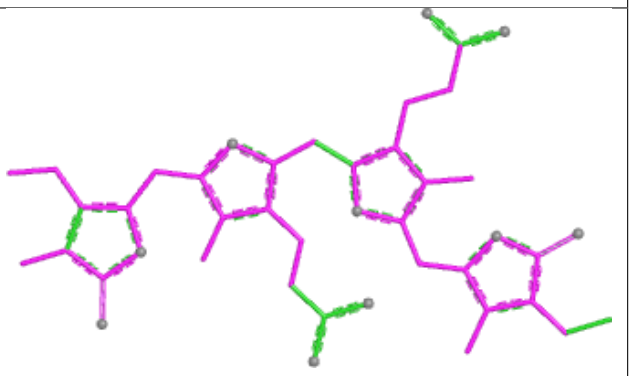


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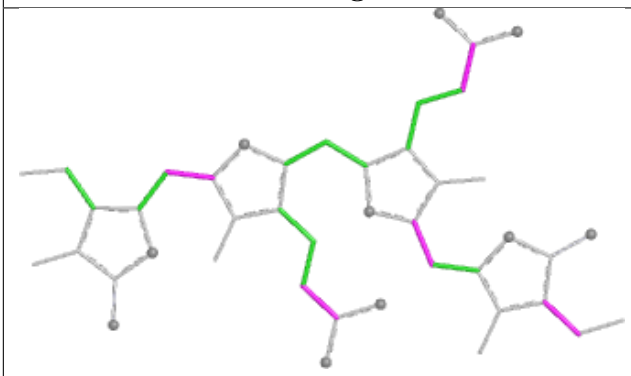
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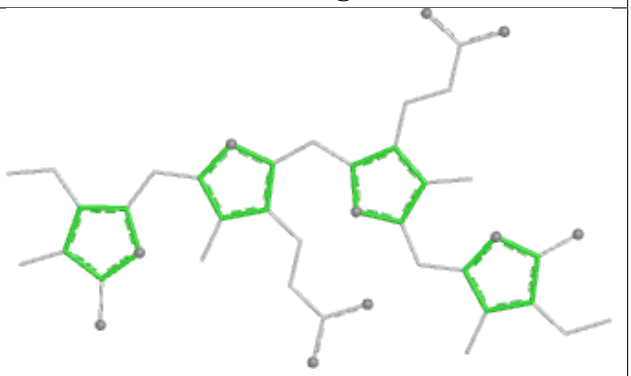
Bond lengths



Bond angles

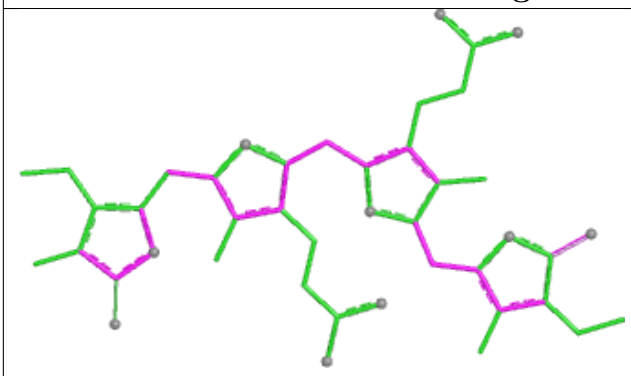


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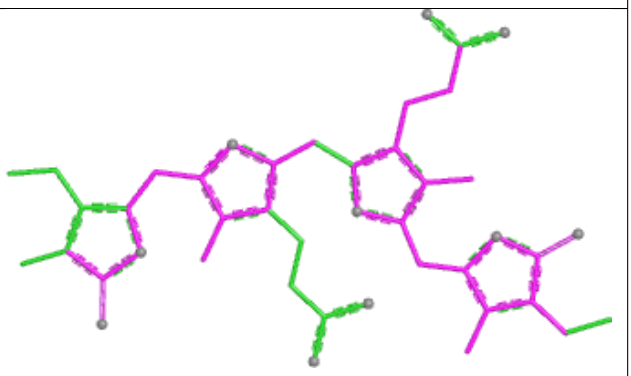


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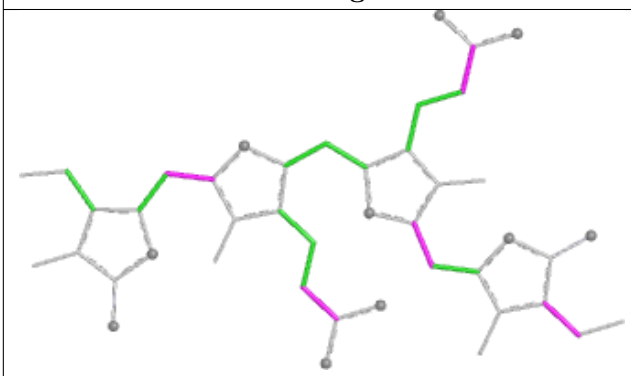
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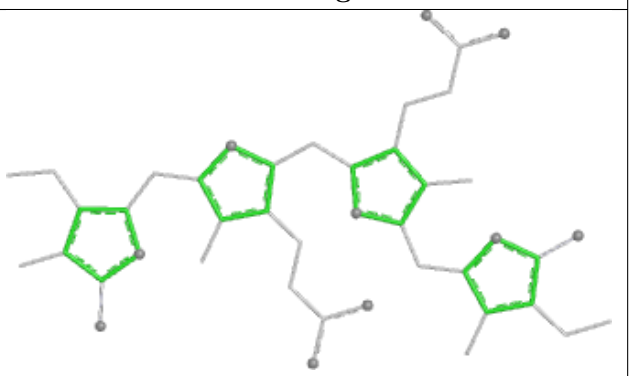
Bond lengths



Bond angles

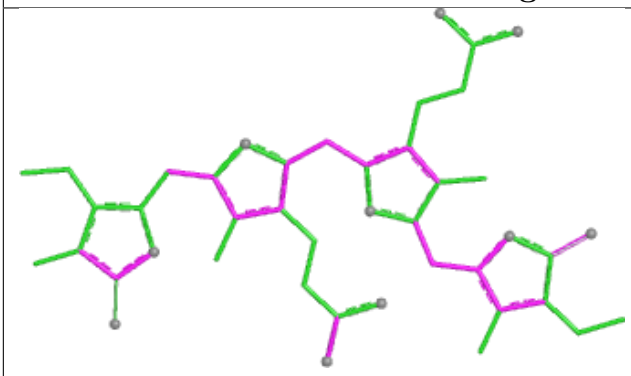


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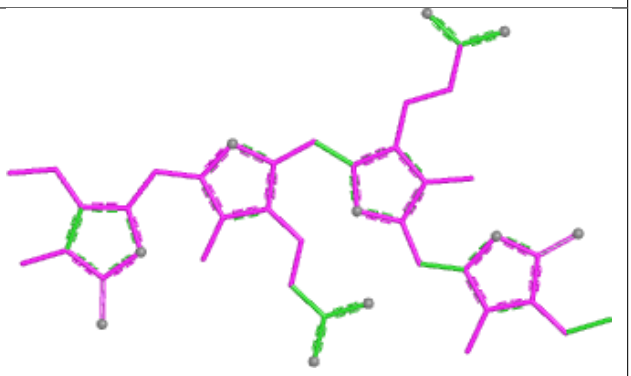


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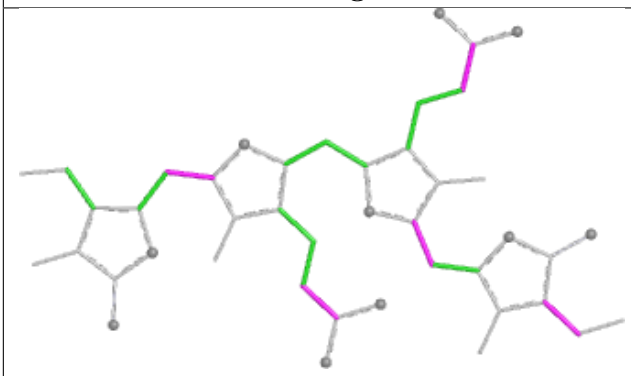
Ligand CYC I3 201



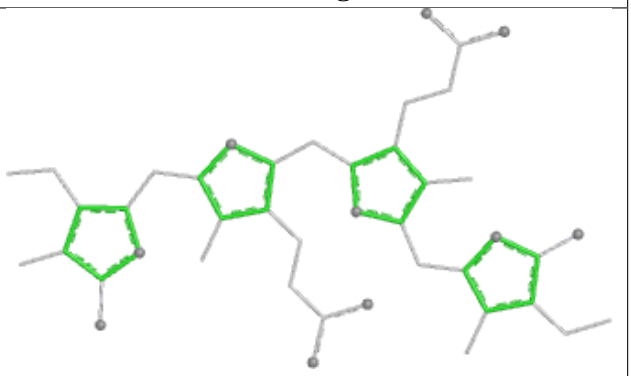
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Bond angles

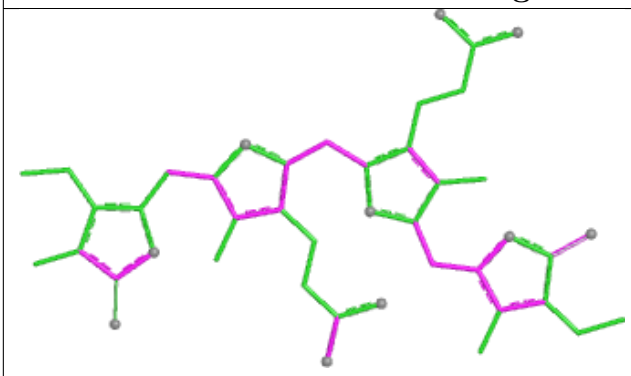


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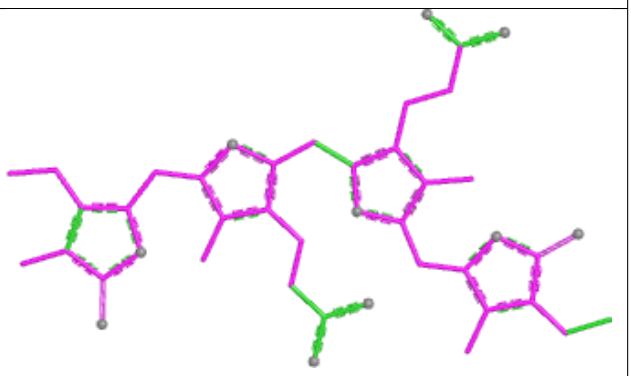


Rings

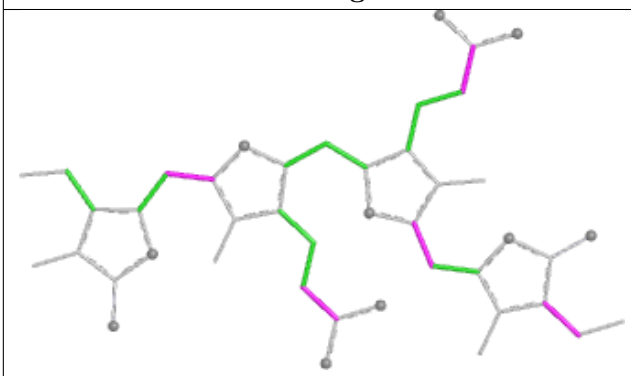
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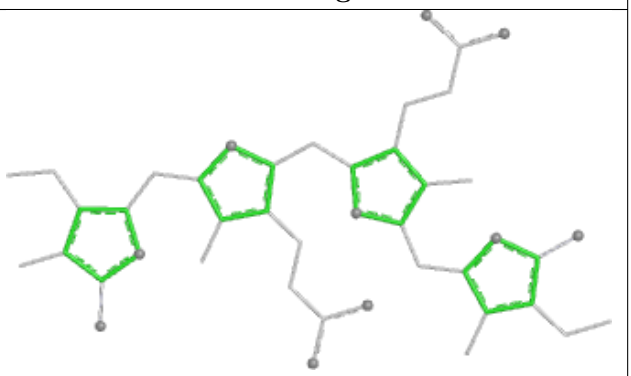
Bond lengths



Bond angles

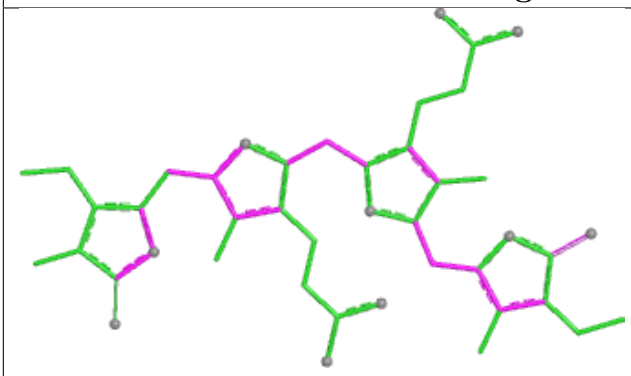


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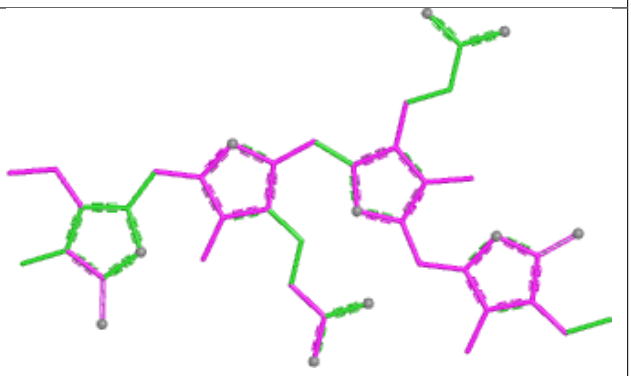


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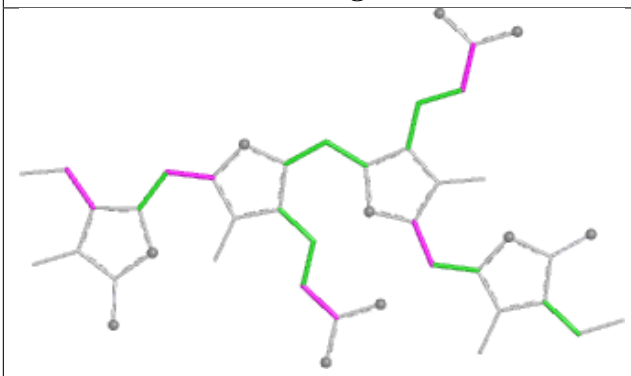
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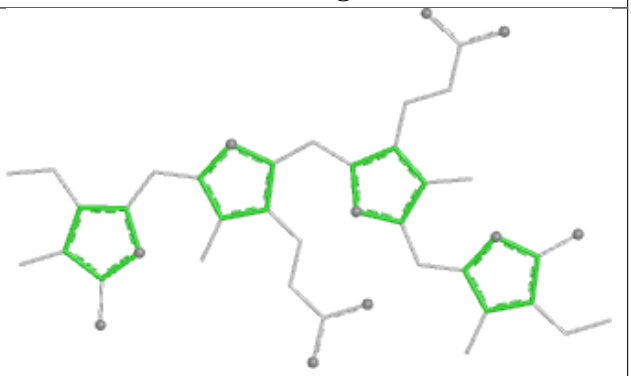
Bond lengths



Bond angles

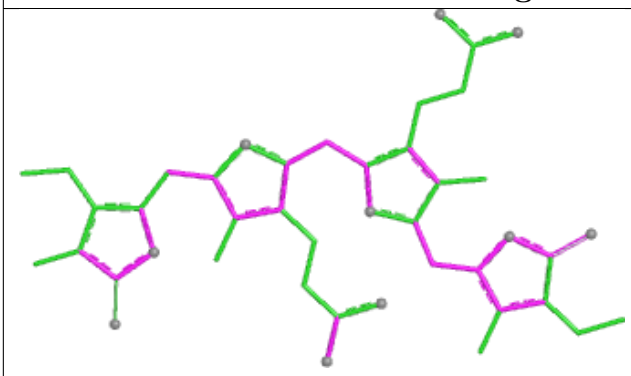


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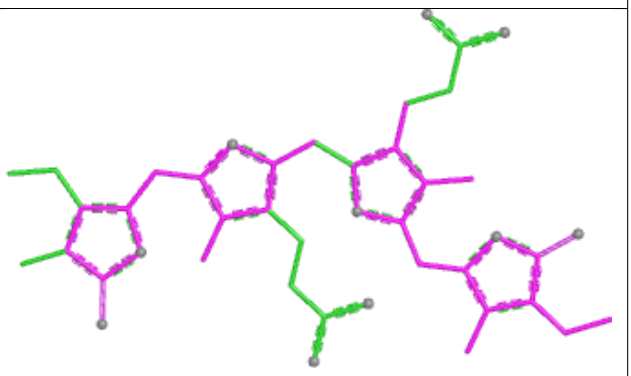


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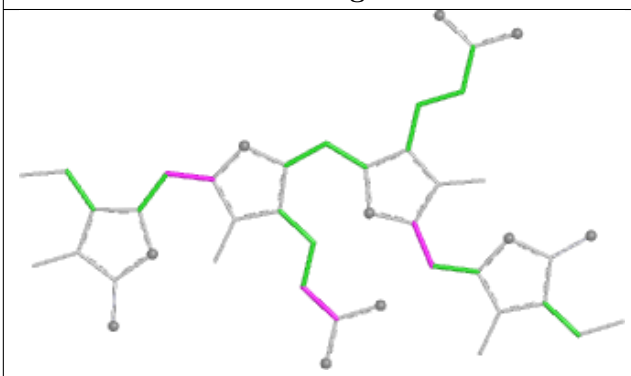
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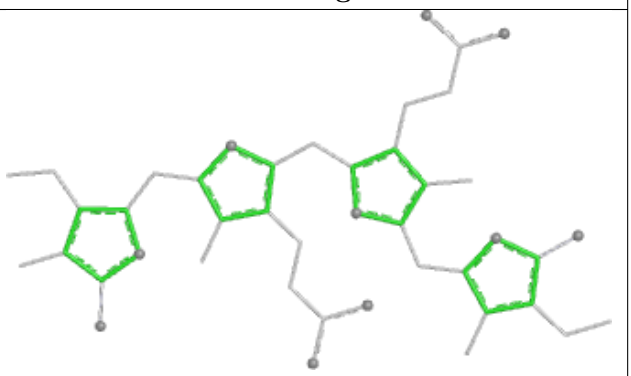
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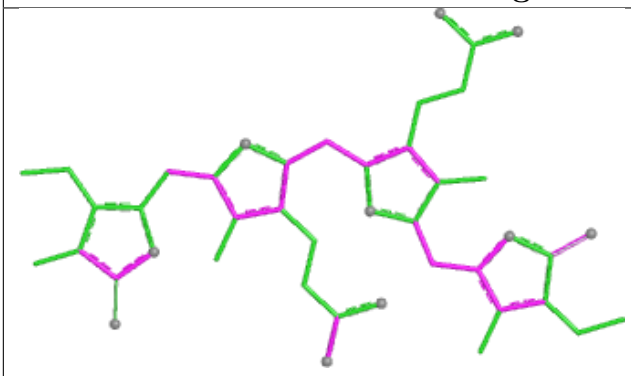


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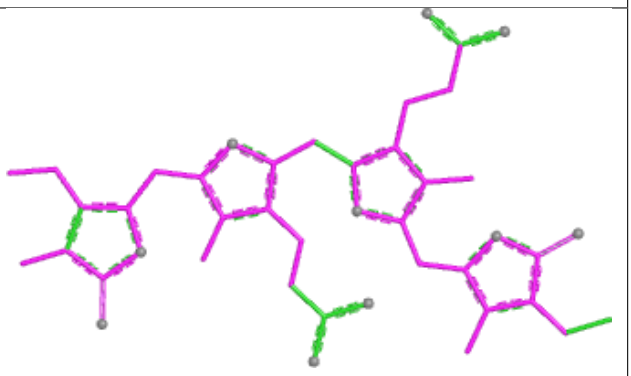


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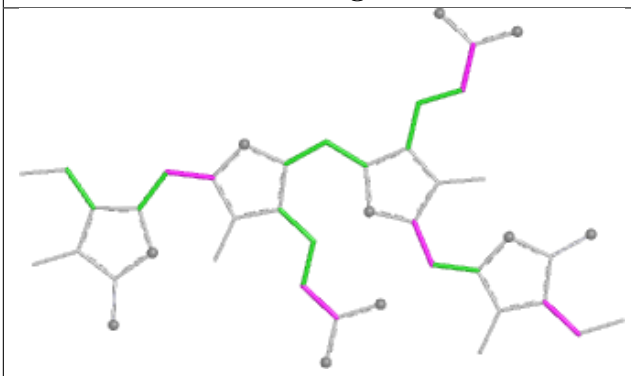
Ligand CYC A8 201



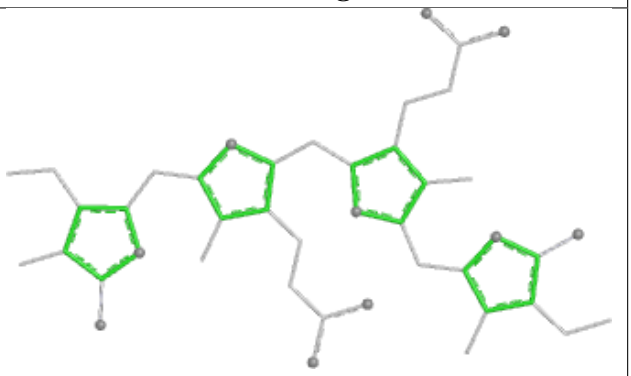
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Bond angles

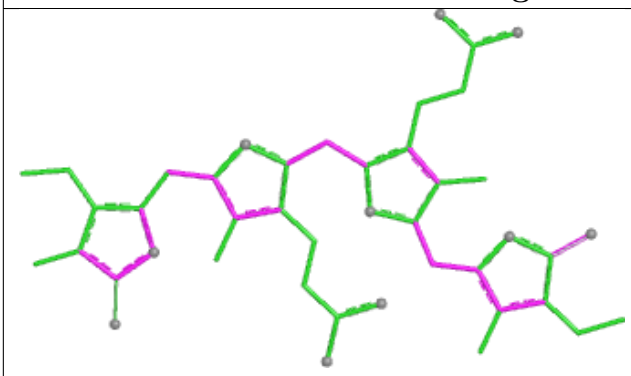


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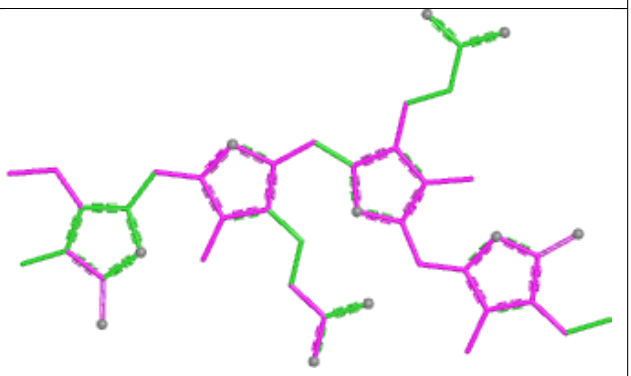


Rings

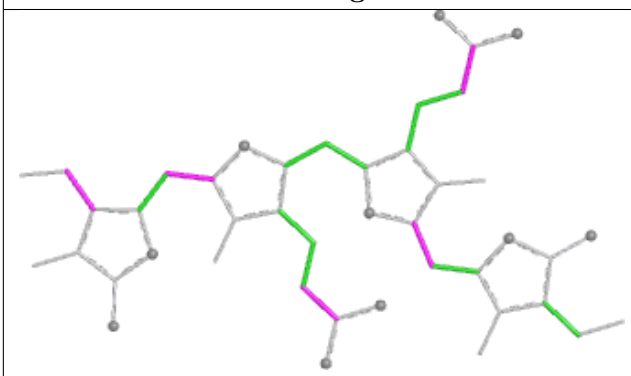
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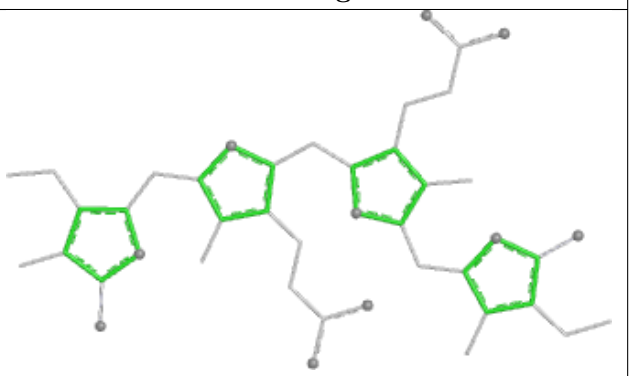
Bond lengths



Bond angles

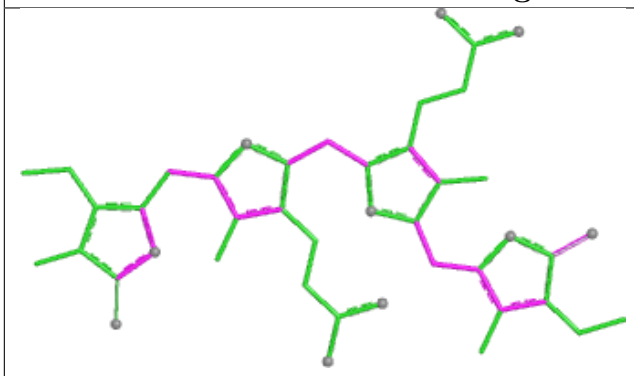


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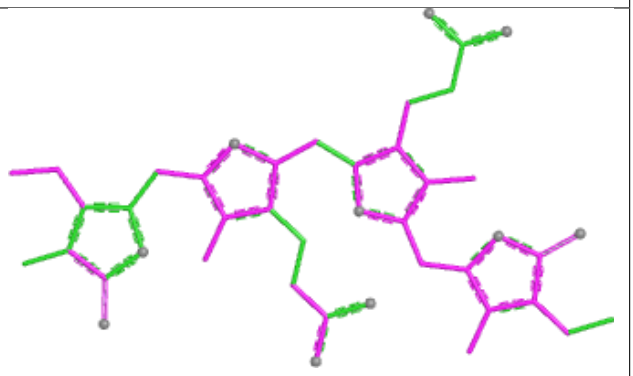


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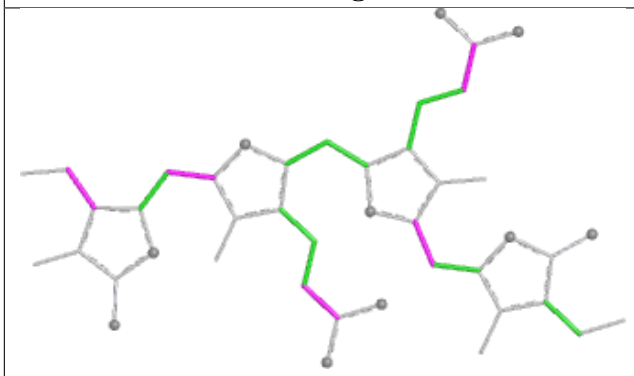
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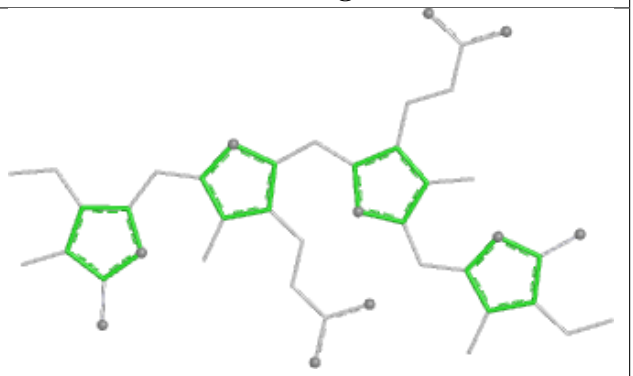
Bond lengths



Bond angles

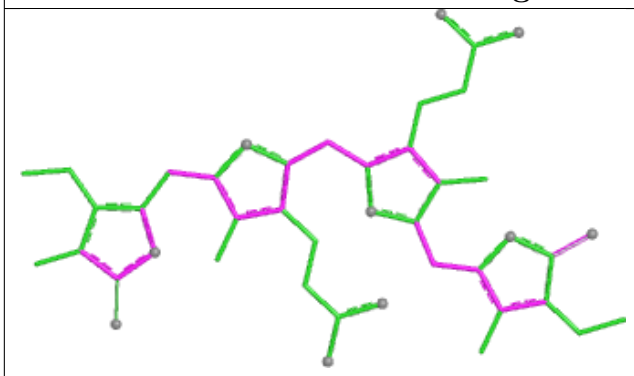


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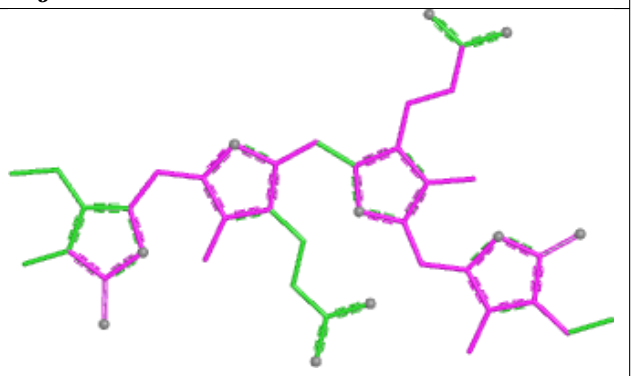


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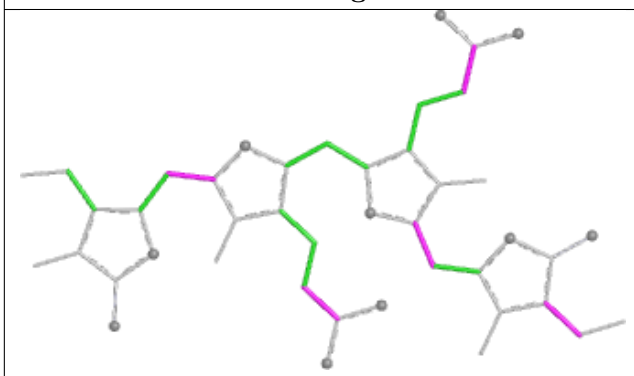
Ligand CYC j5 1202



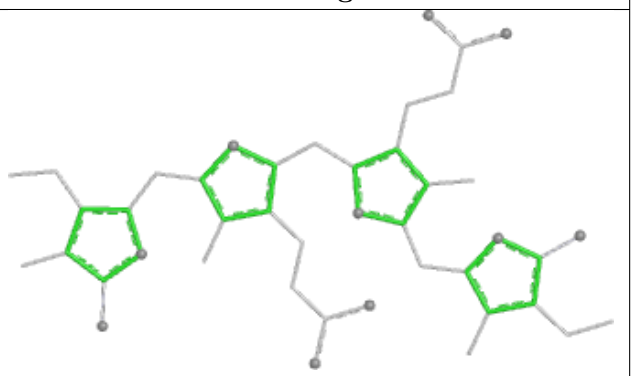
Bond lengths



Bond angles

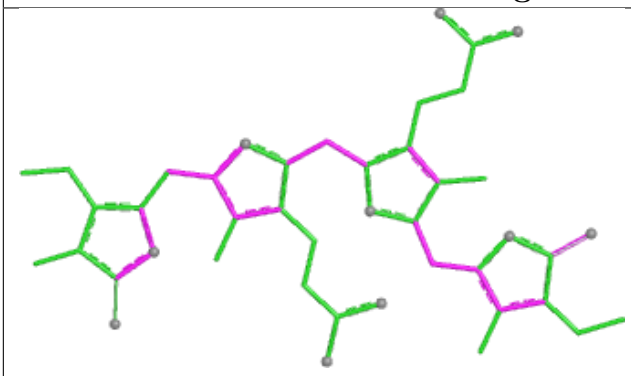


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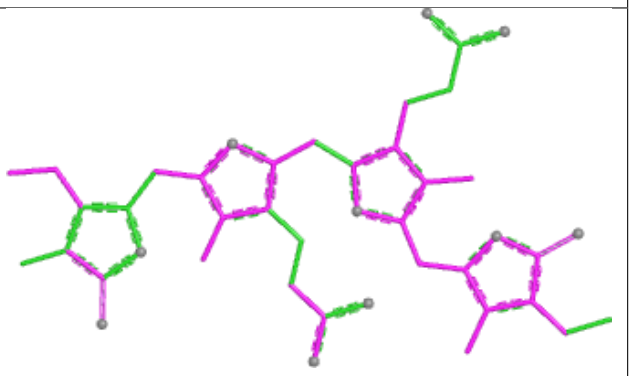


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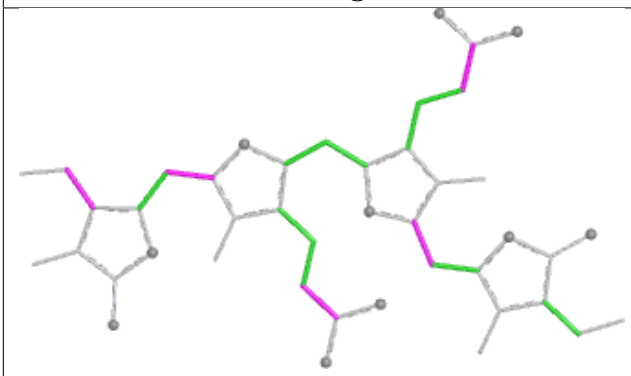
Ligand CYC T3 302



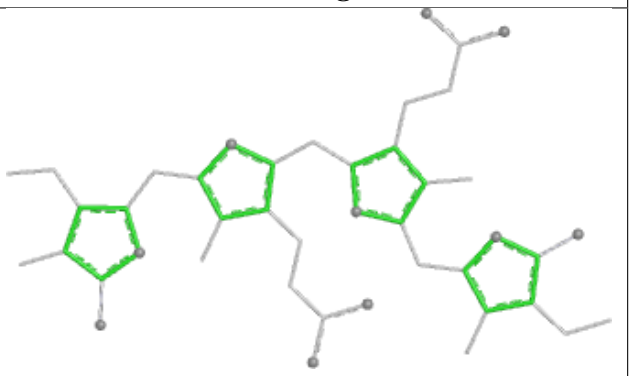
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Bond angles

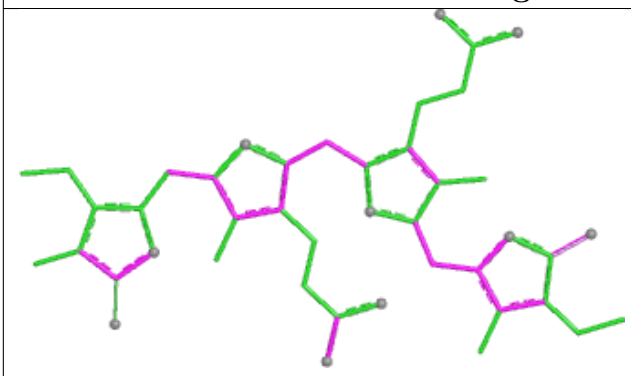


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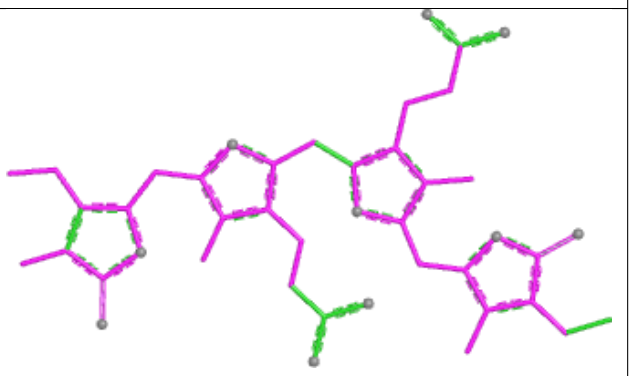


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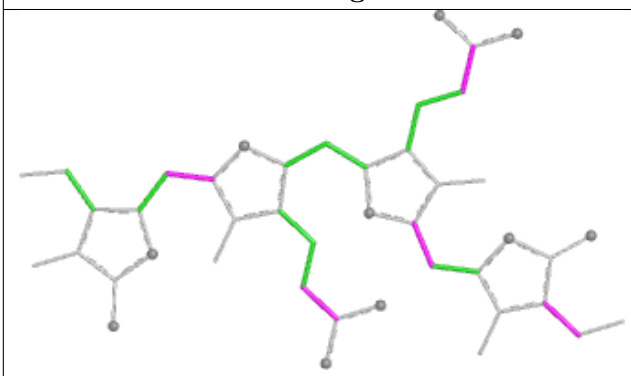
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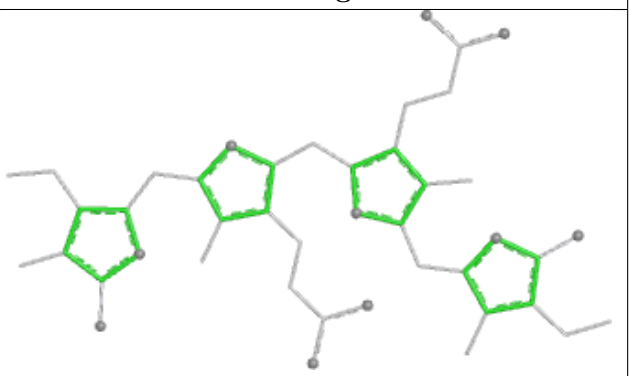
Bond lengths



Bond angles

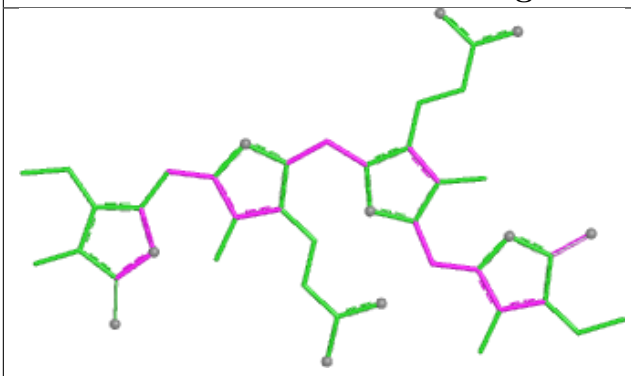


Torsions

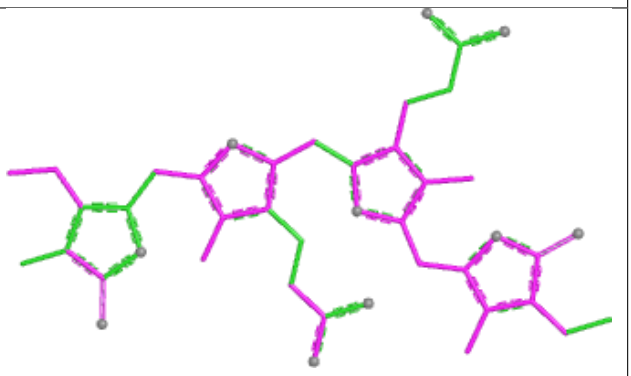


Rings

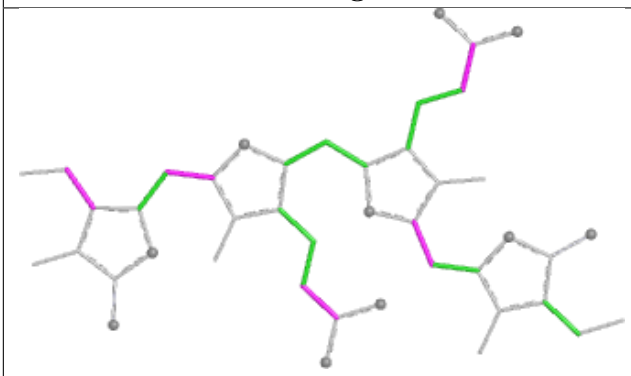
Ligand CYC L1 201



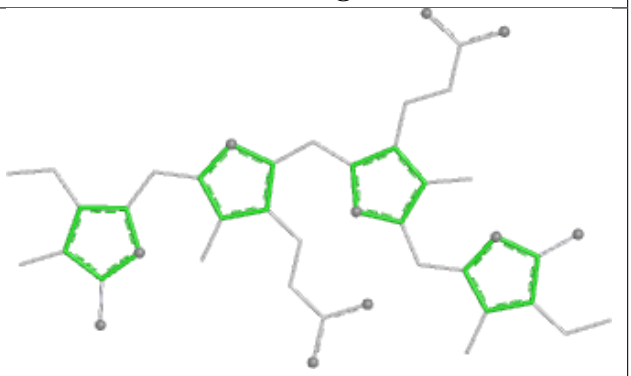
Bond lengths



Bond angles

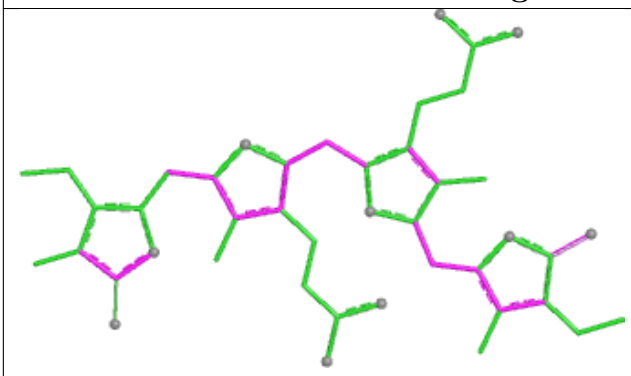


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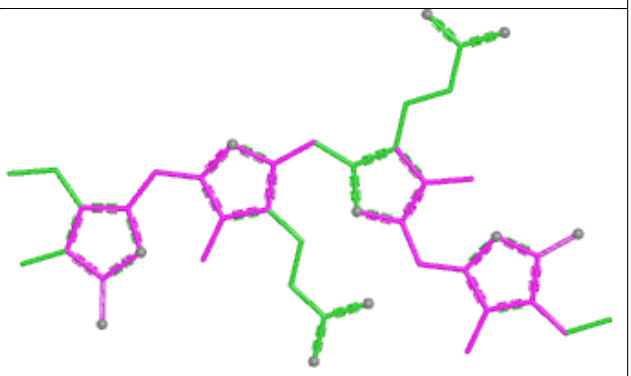


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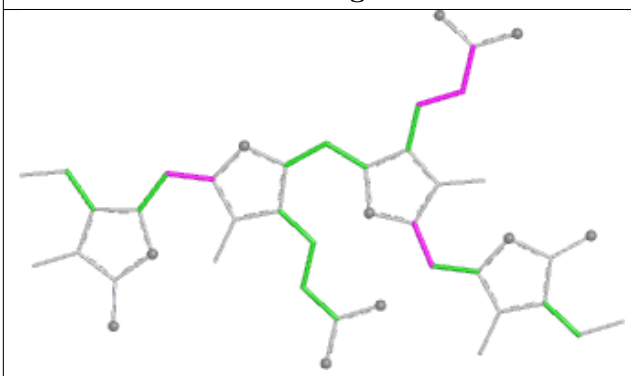
Ligand CYC m7 201



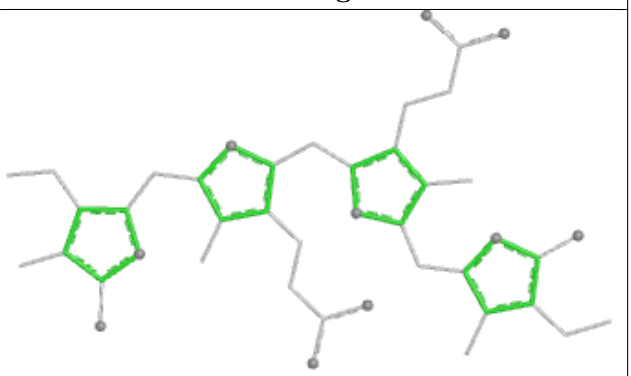
Bond lengths



Bond angles

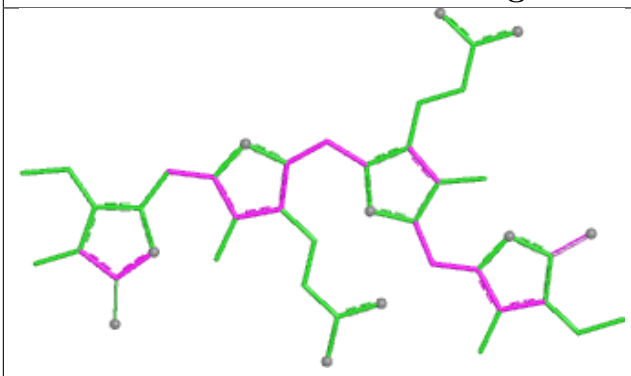


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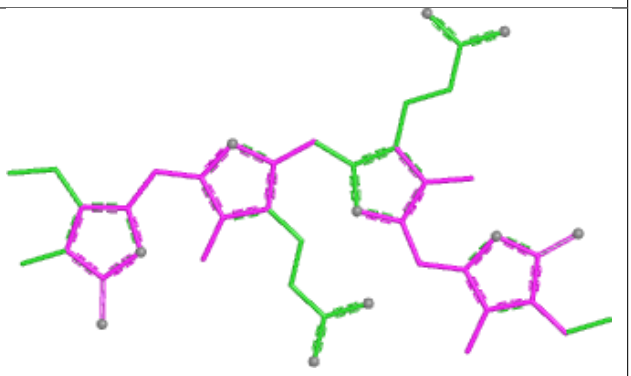


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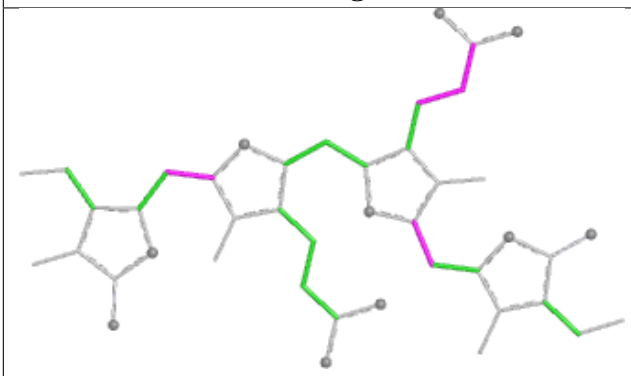
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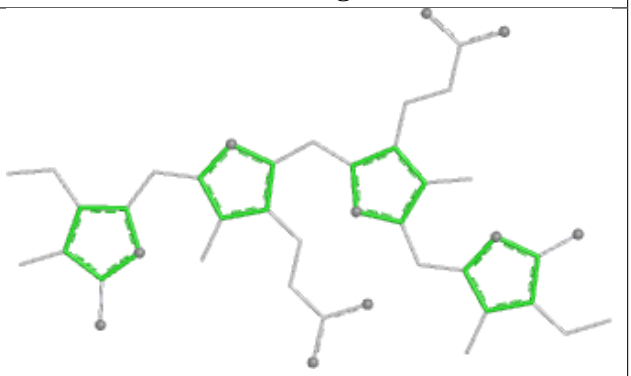
Bond lengths



Bond angles

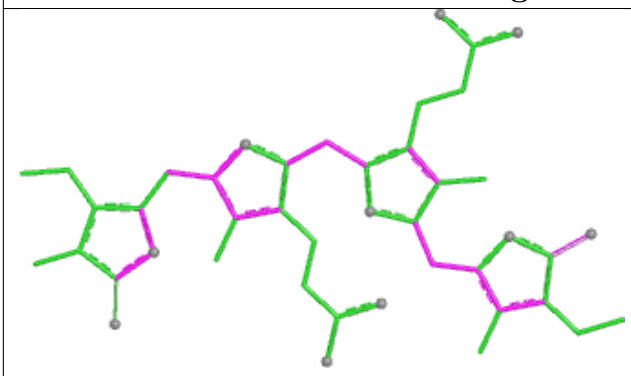


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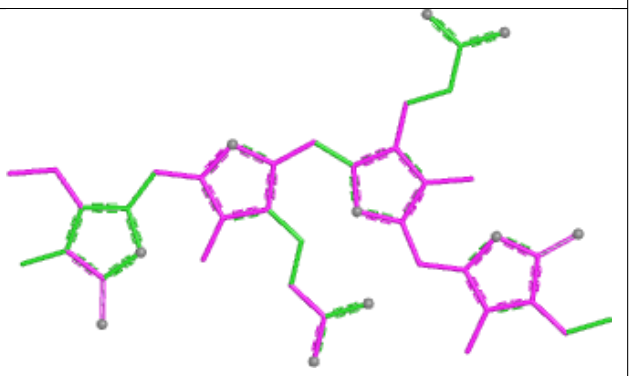


Rings

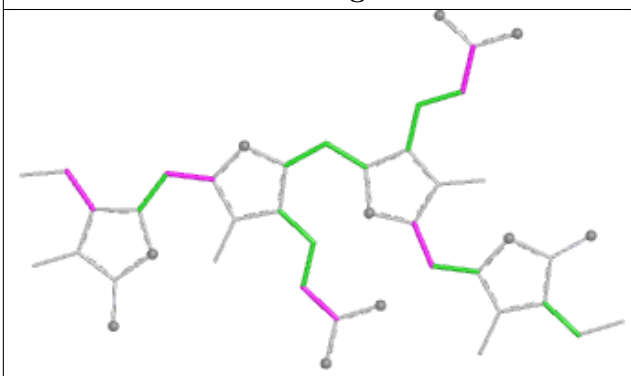
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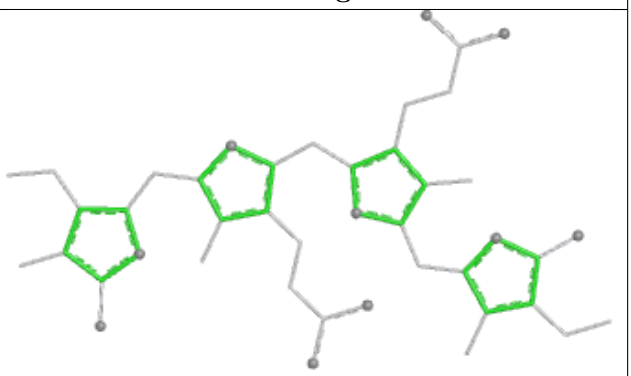
Bond lengths



Bond angles

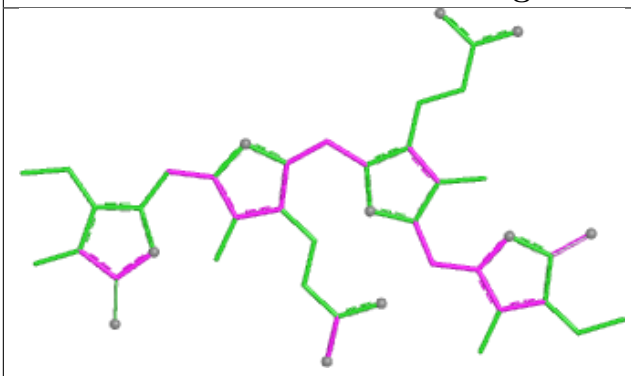


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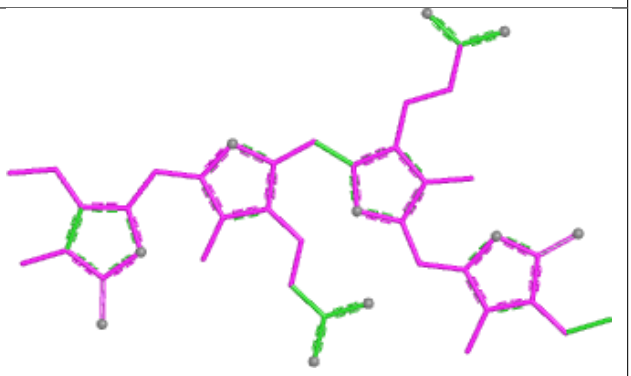


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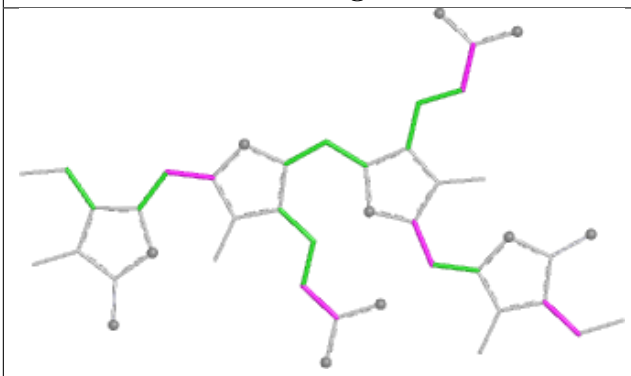
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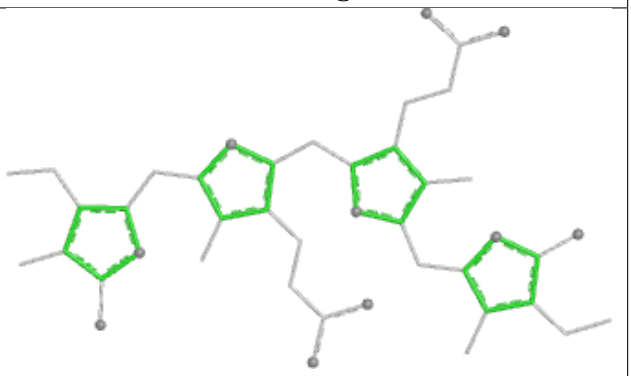
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Bond angles

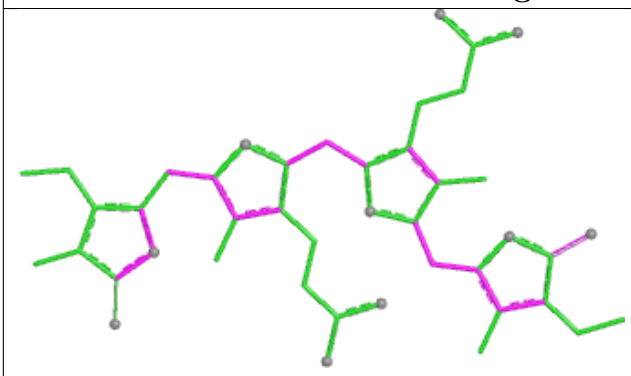


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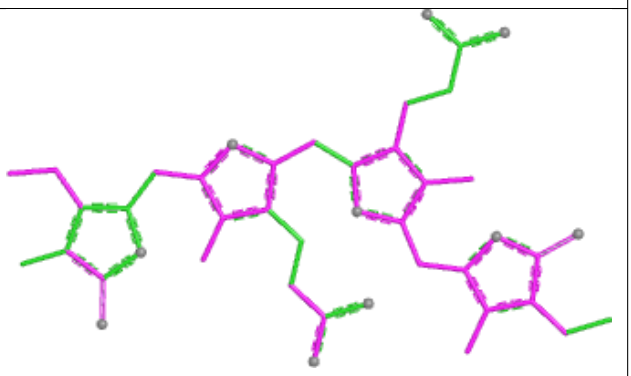


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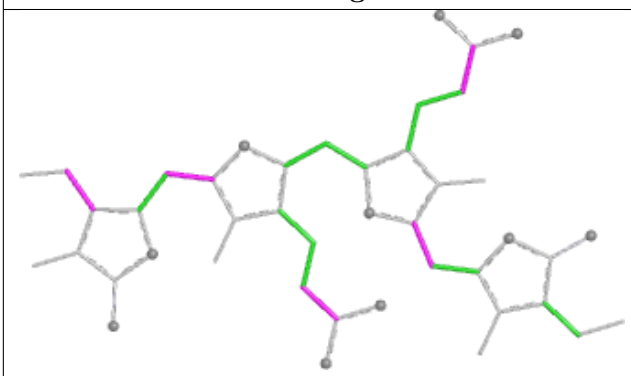
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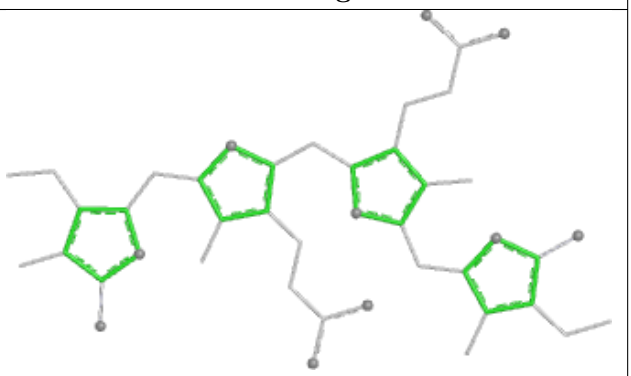
Bond lengths



Bond angles

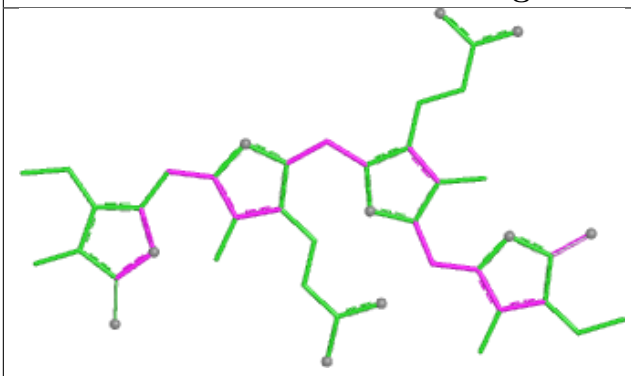


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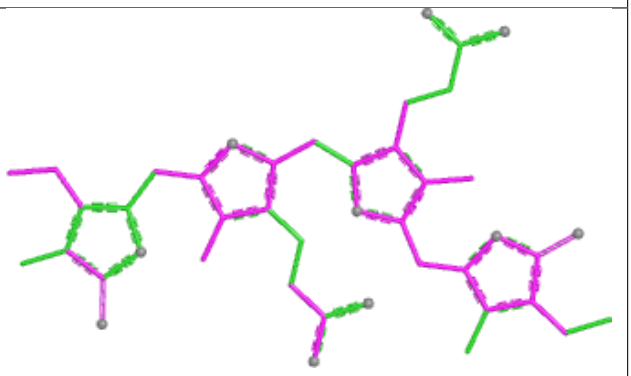


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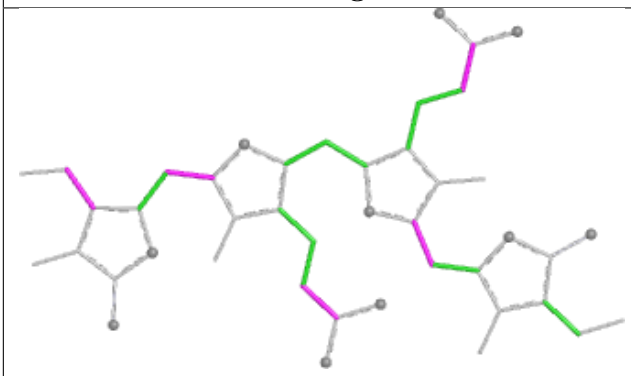
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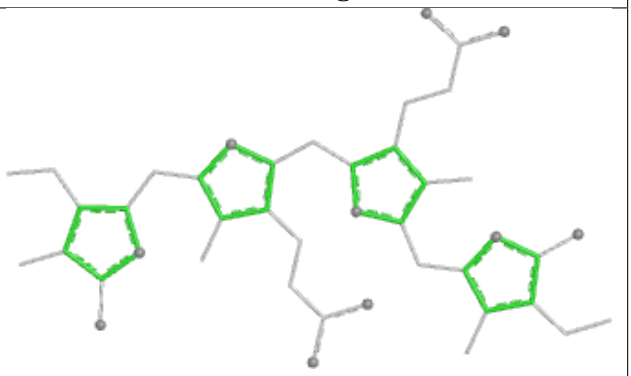
Bond lengths



Bond angles

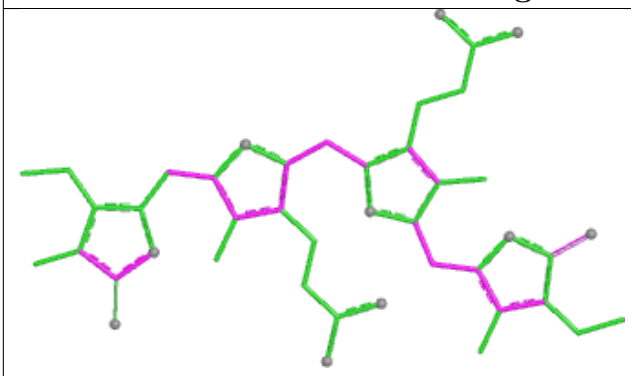


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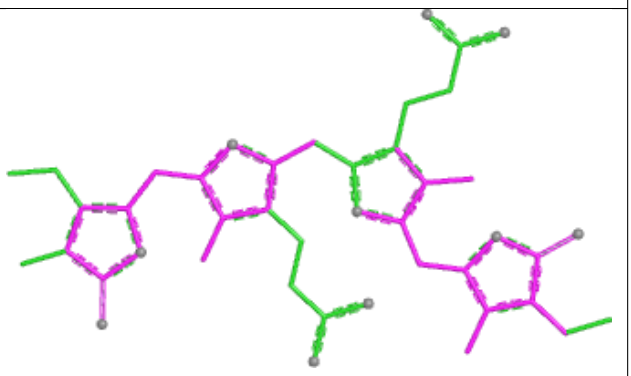


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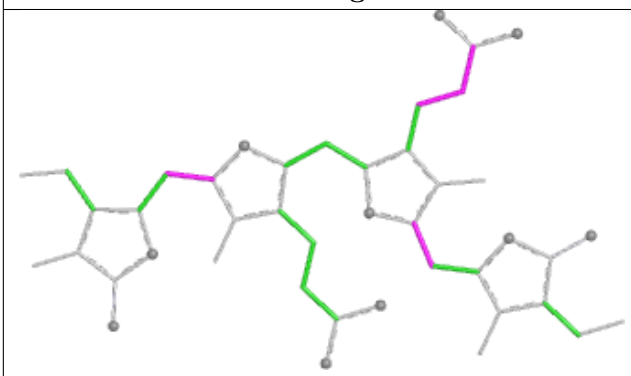
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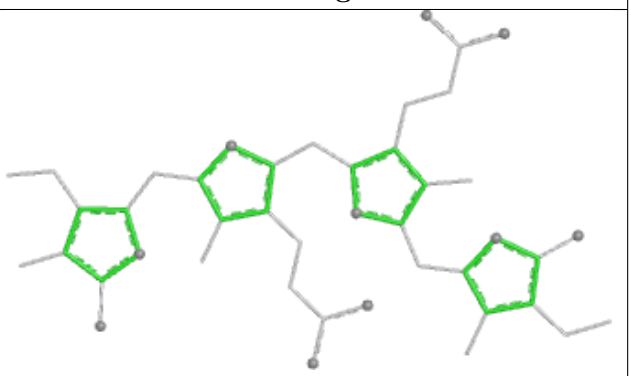
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Bond angles

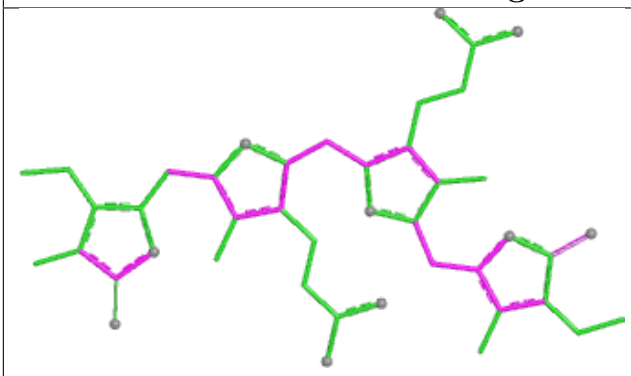


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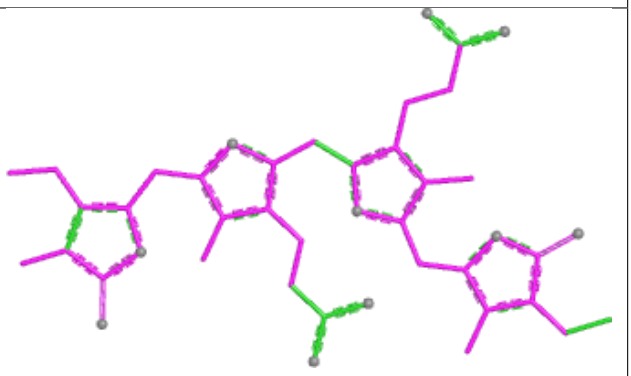


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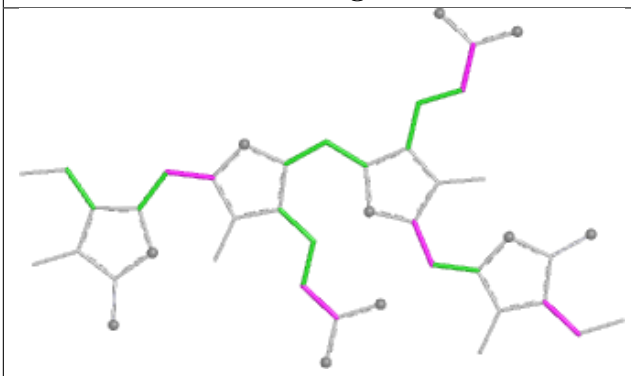
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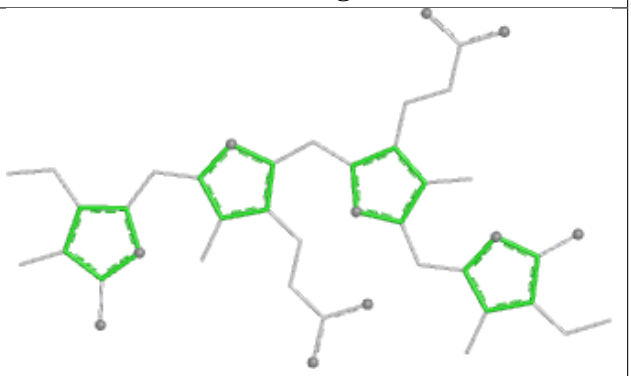
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Bond angles

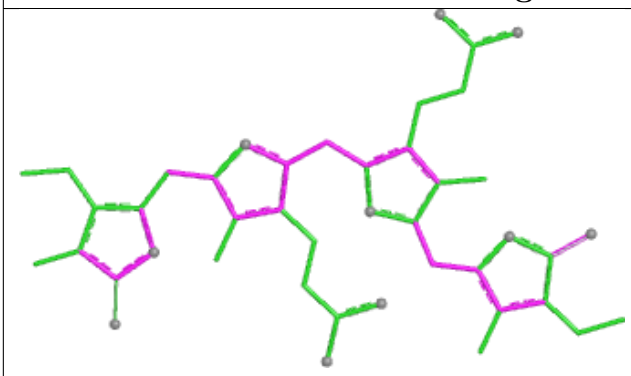


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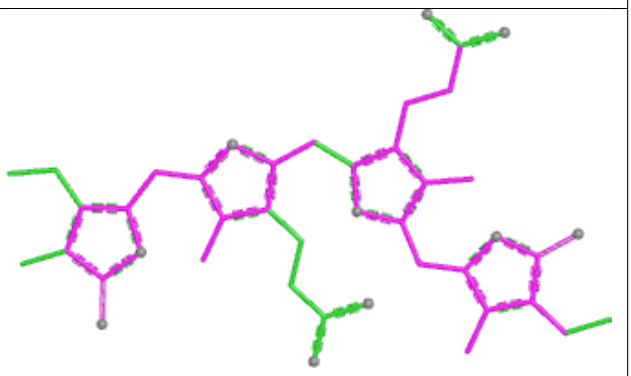


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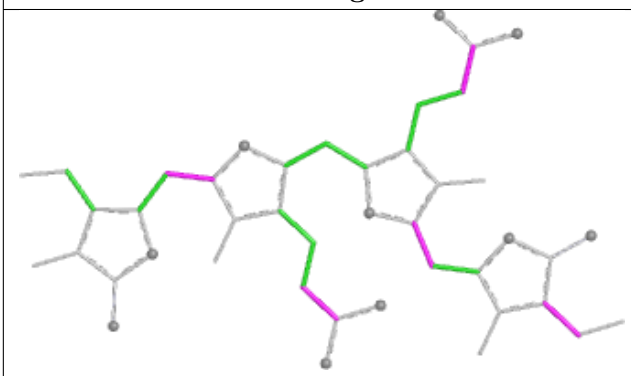
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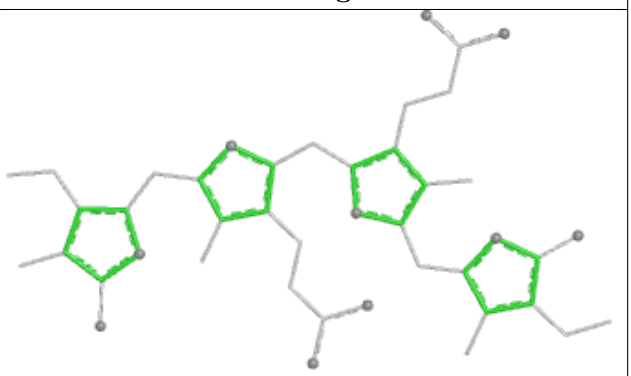
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Bond angles

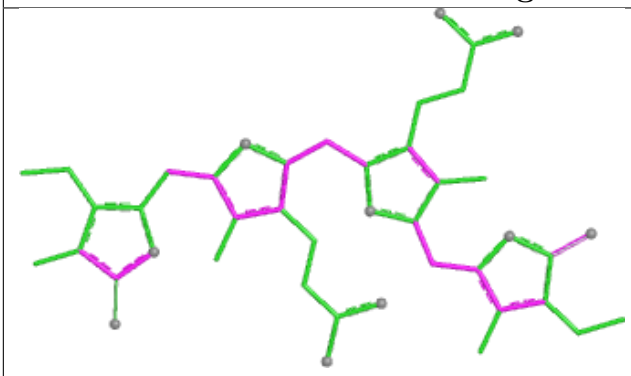


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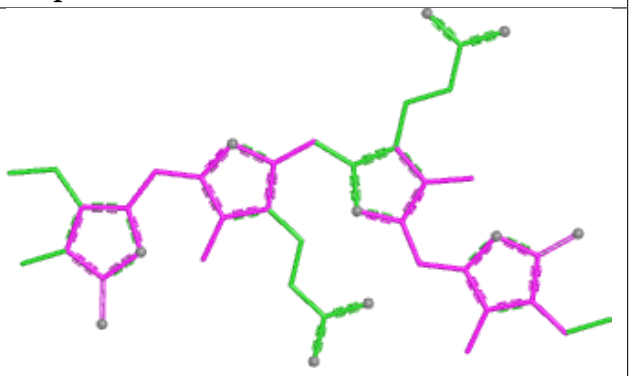


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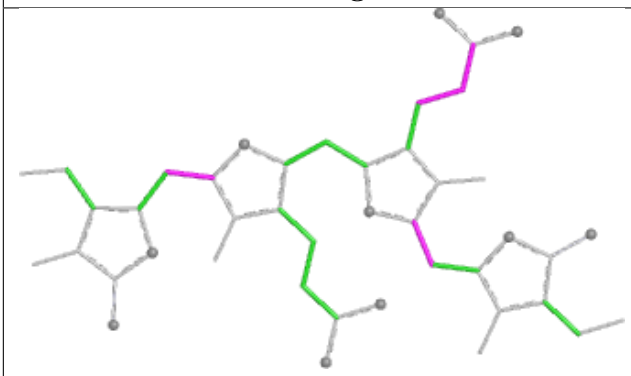
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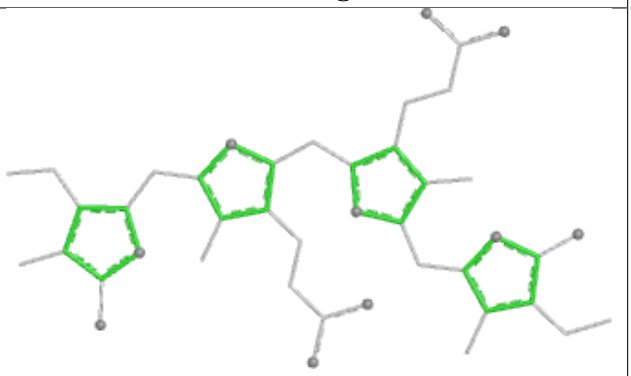
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Bond angles

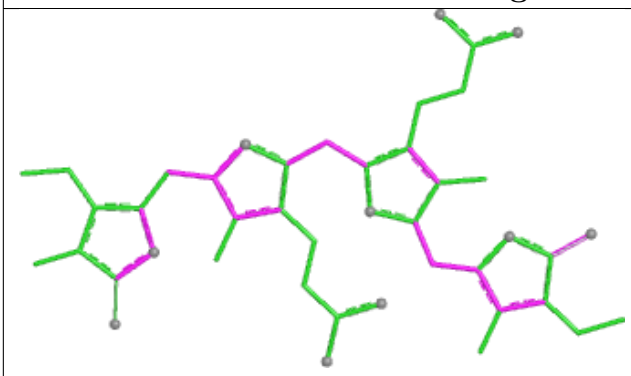


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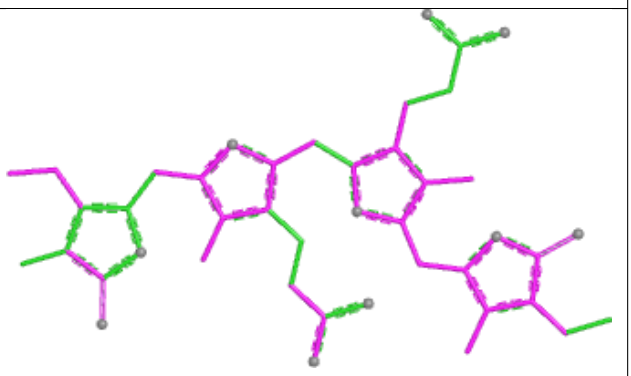


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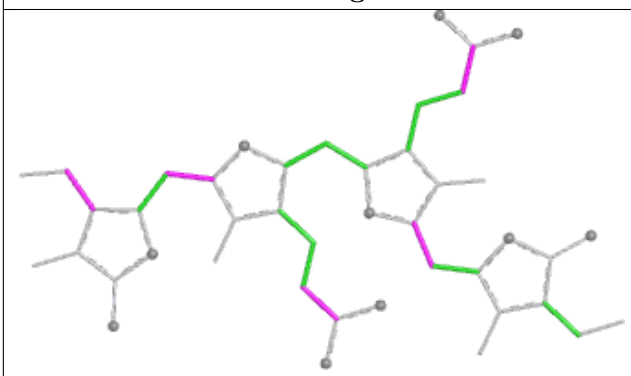
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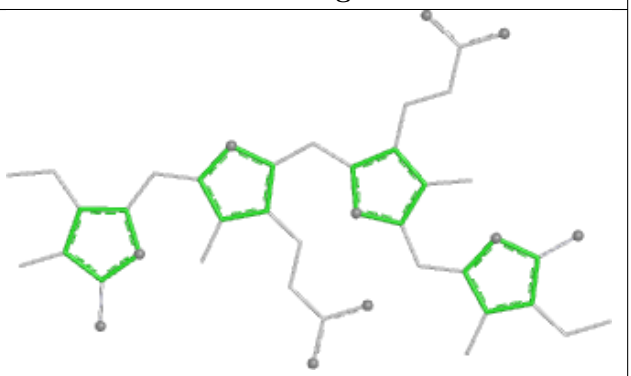
Bond lengths



Bond angles

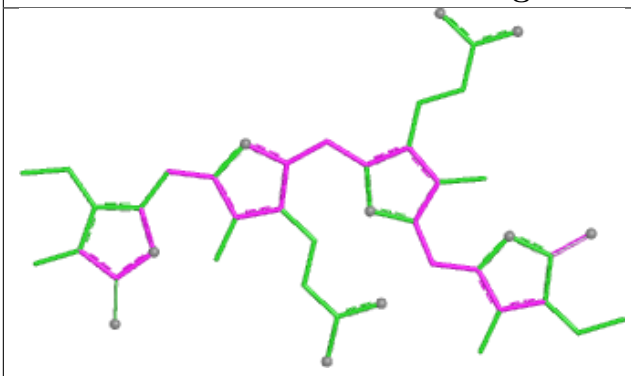


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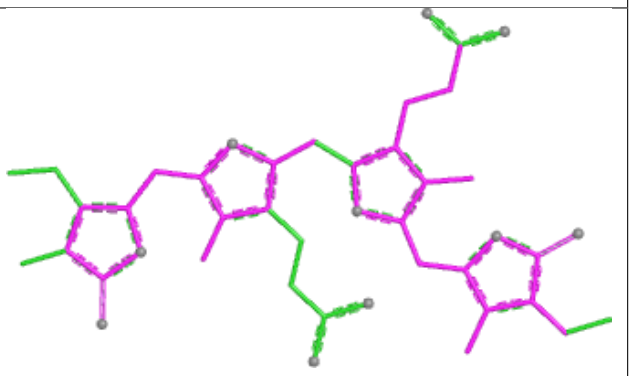


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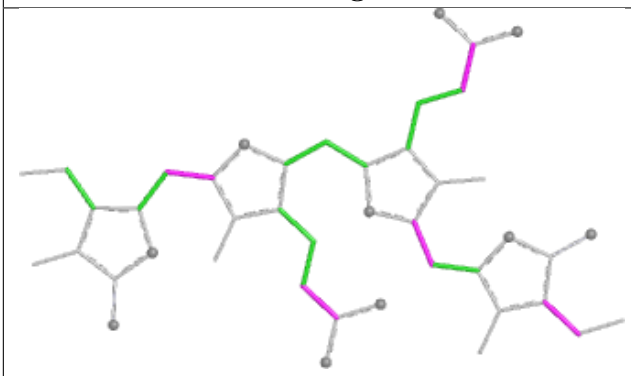
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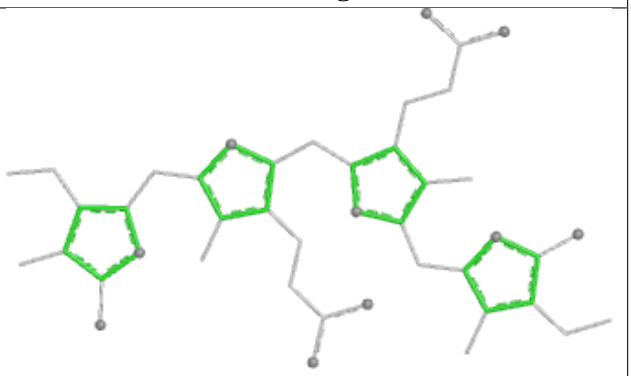
Bond lengths



Bond angles

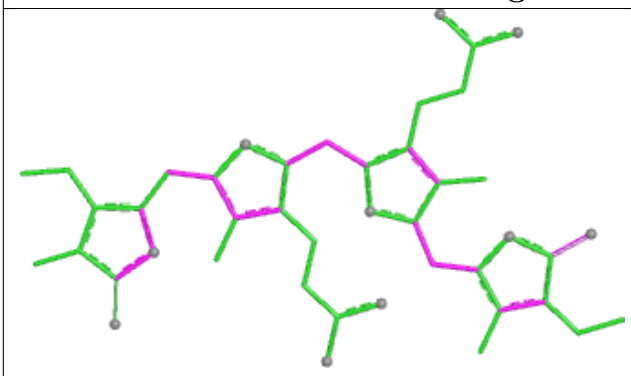


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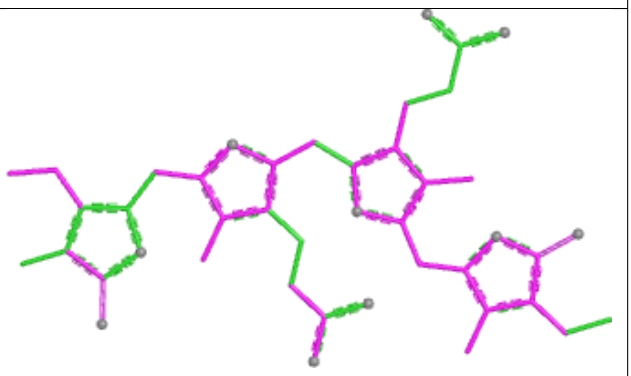


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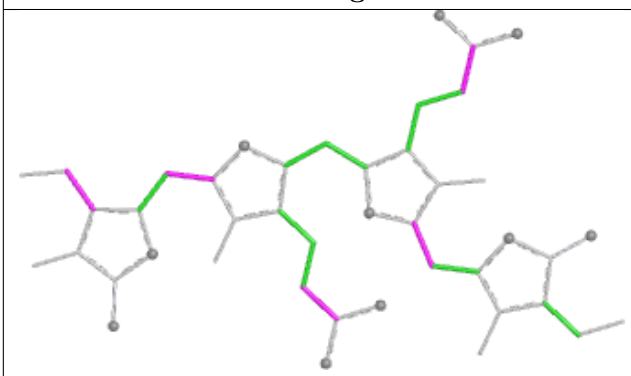
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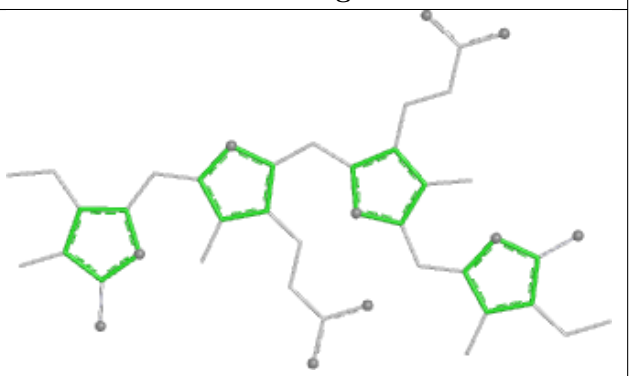
Bond lengths



Bond angles

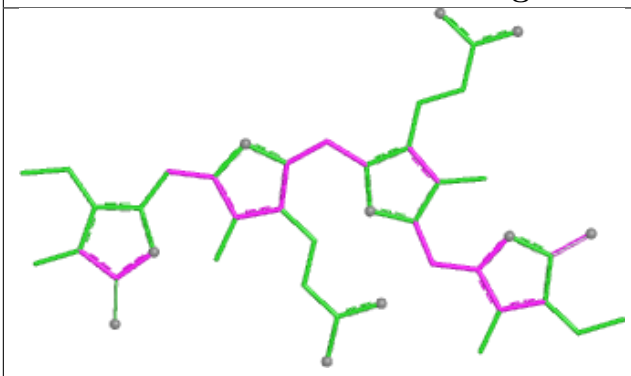


Torsions

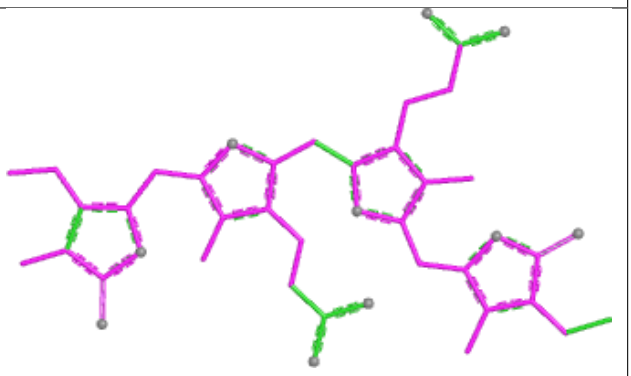


Rings

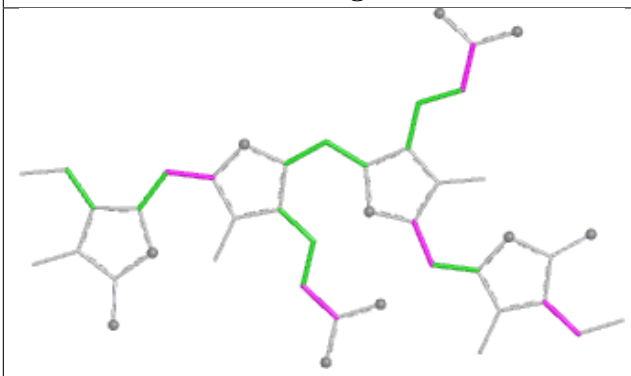
Ligand CYC K6 201



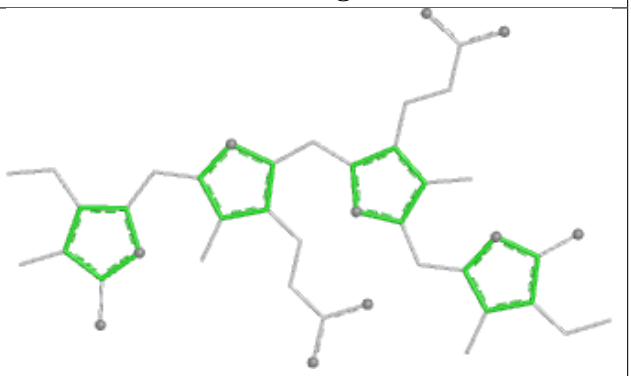
Bond lengths



Bond angles

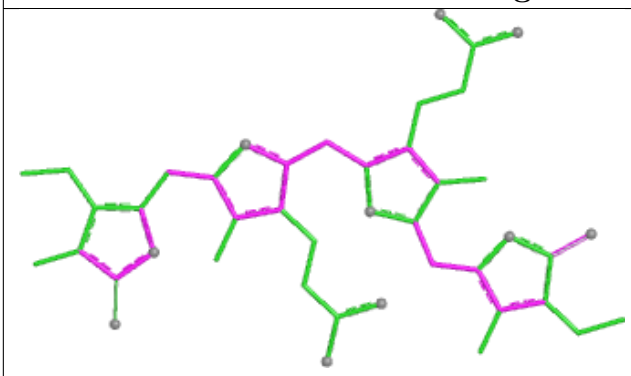


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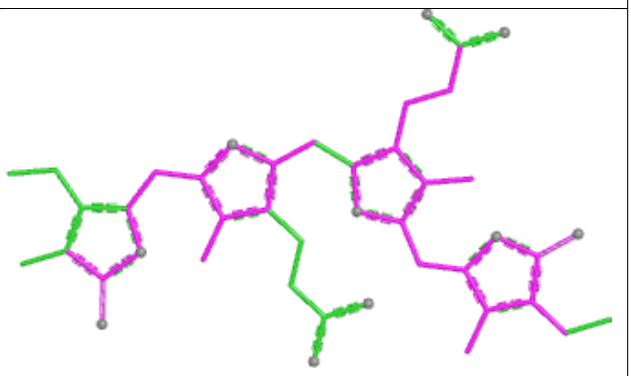


Rings

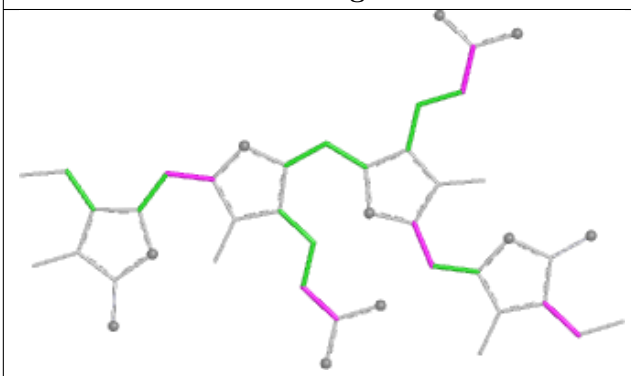
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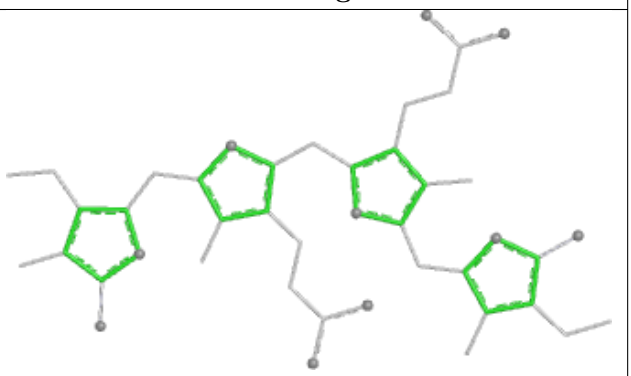
Bond lengths



Bond angles

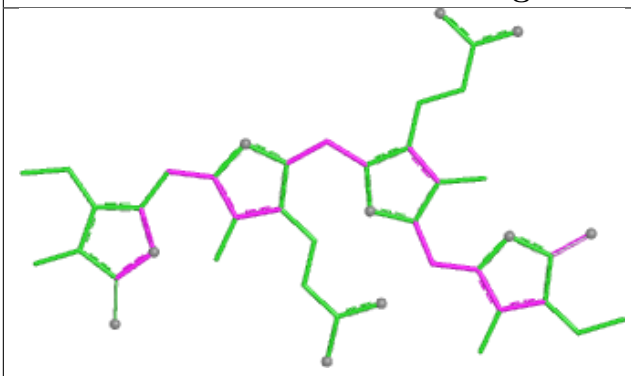


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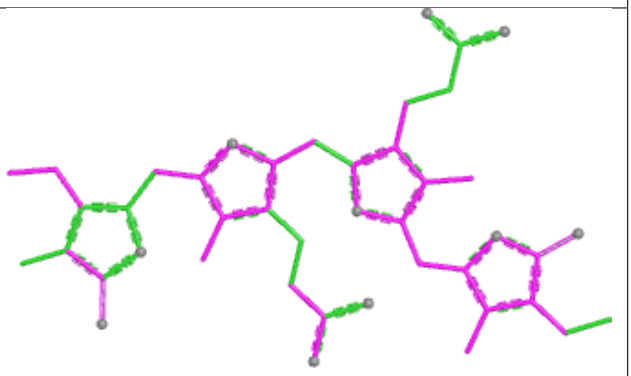


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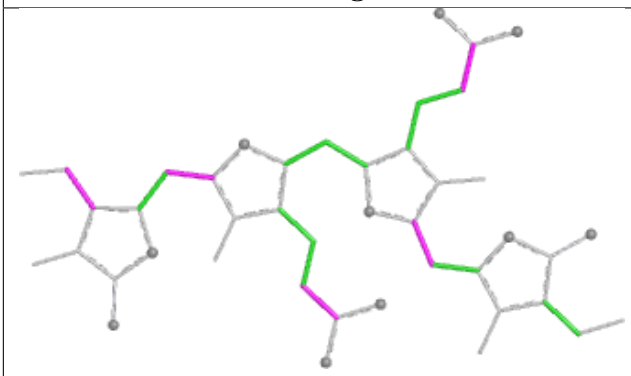
Ligand CYC X1 202



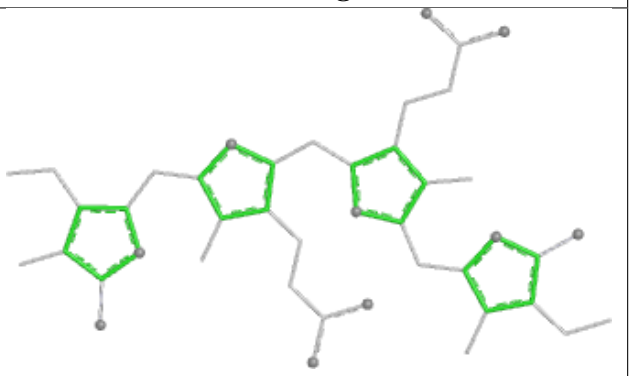
Bond lengths



Bond angles

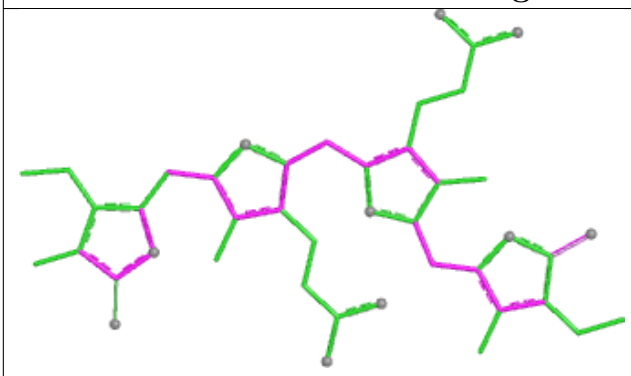


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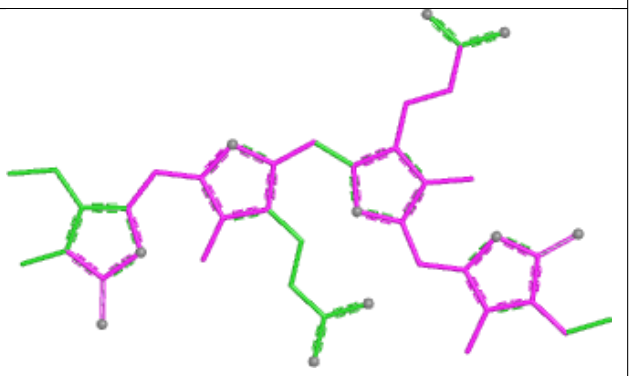


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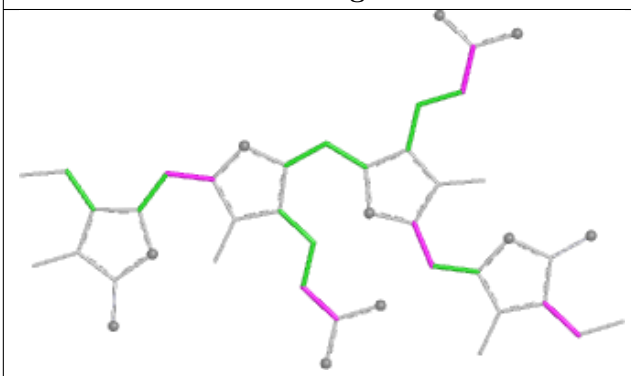
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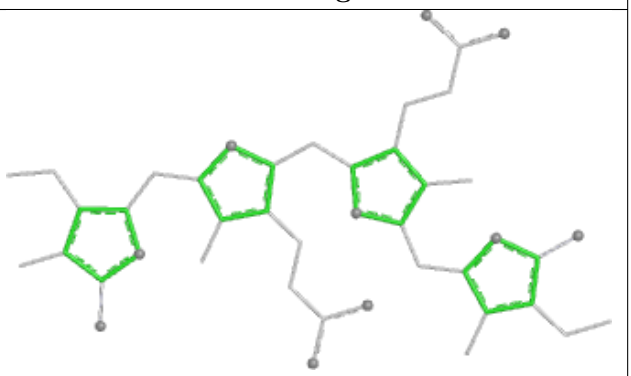
Bond lengths



Bond angles

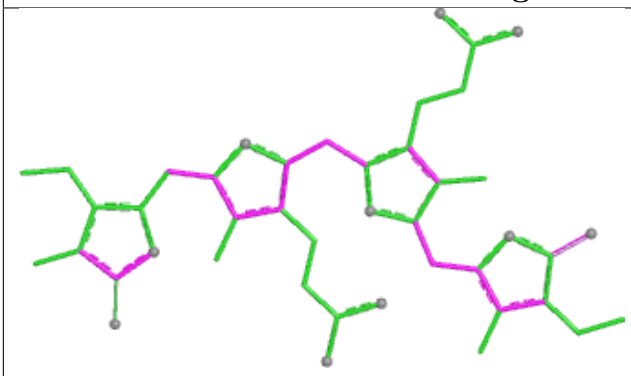


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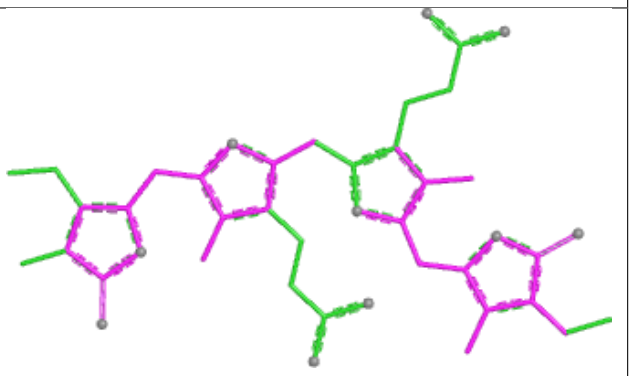


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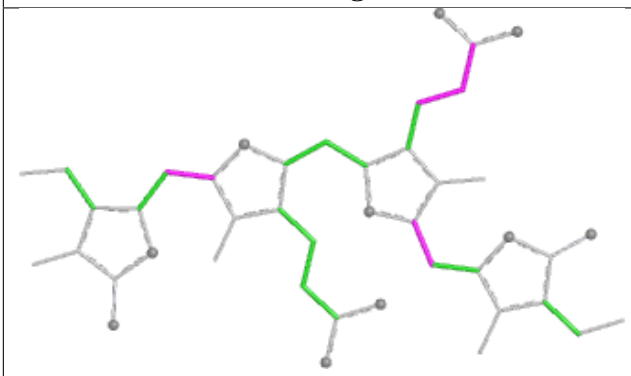
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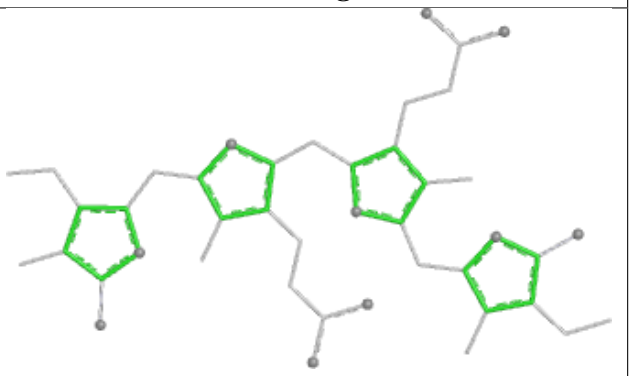
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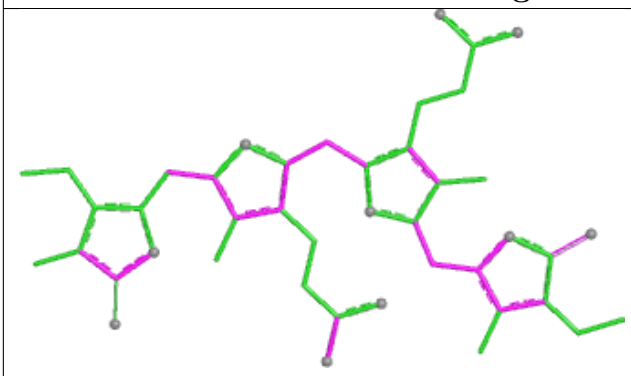


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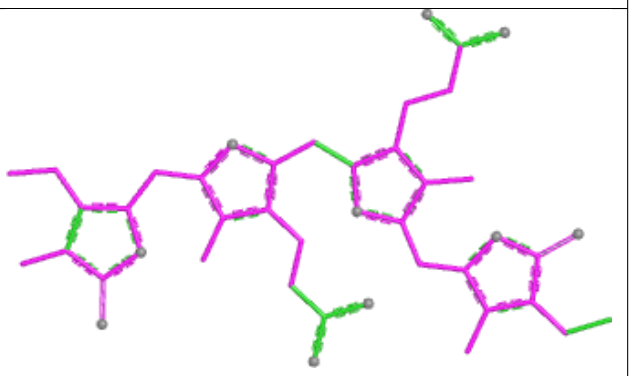


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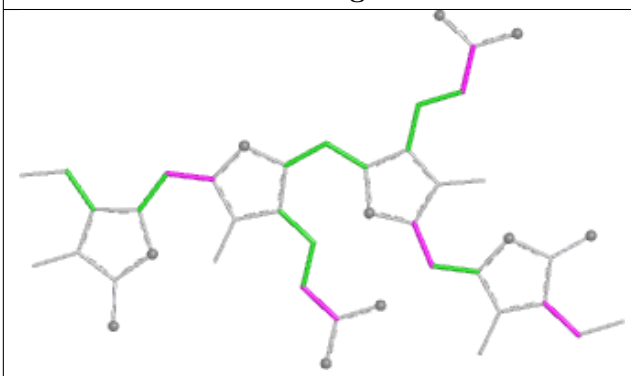
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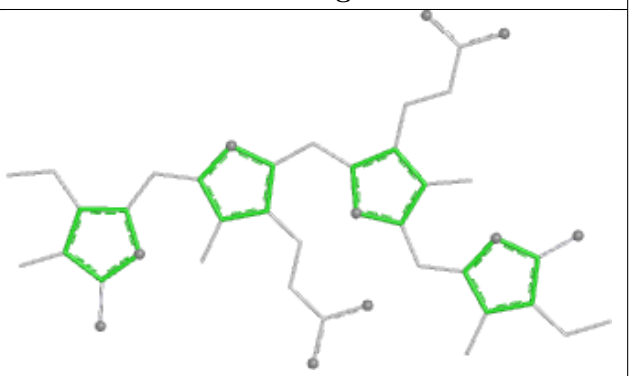
Bond lengths



Bond angles

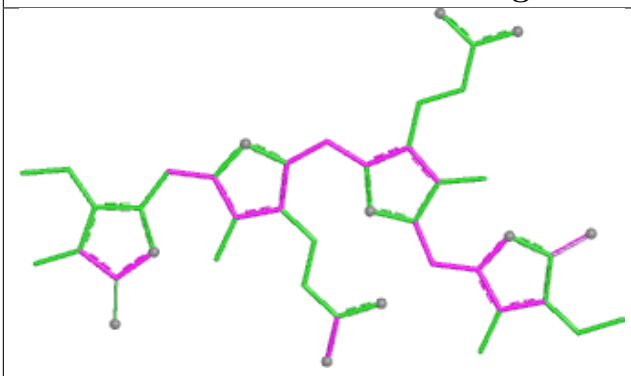


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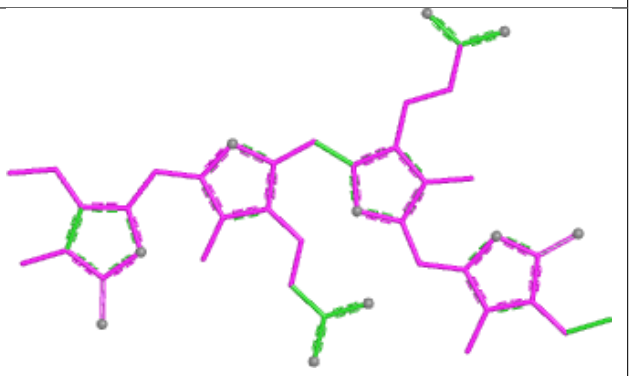


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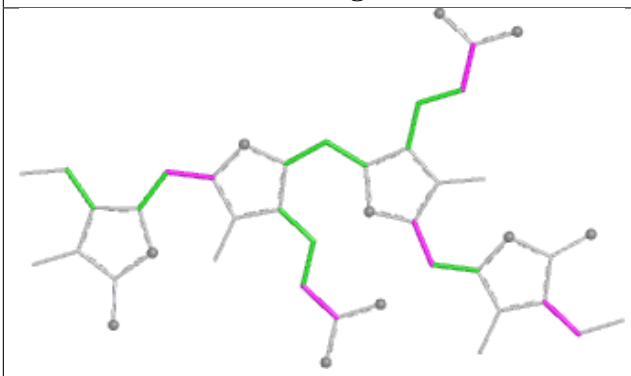
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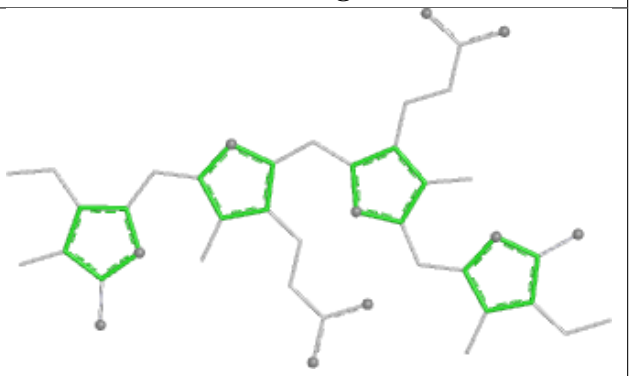
Bond lengths



Bond angles

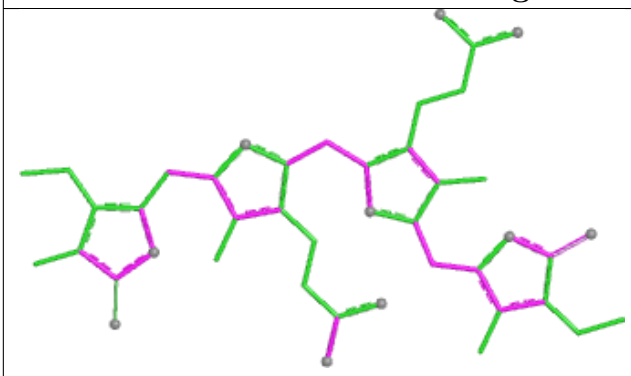


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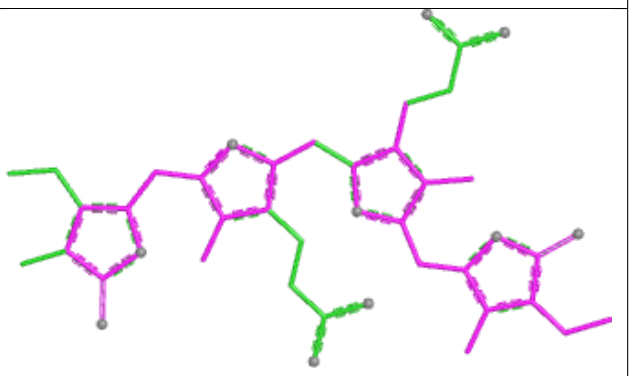


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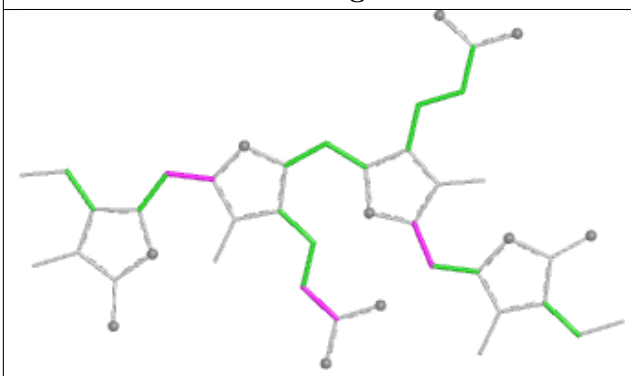
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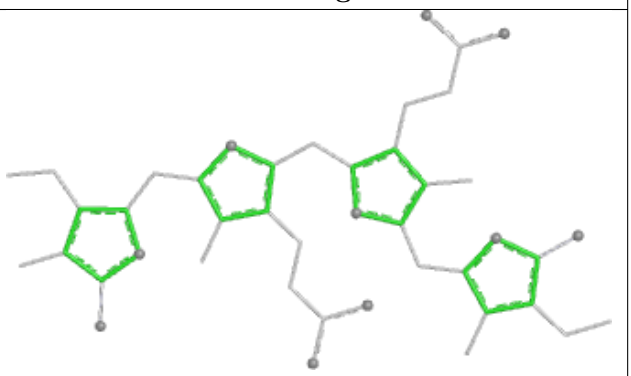
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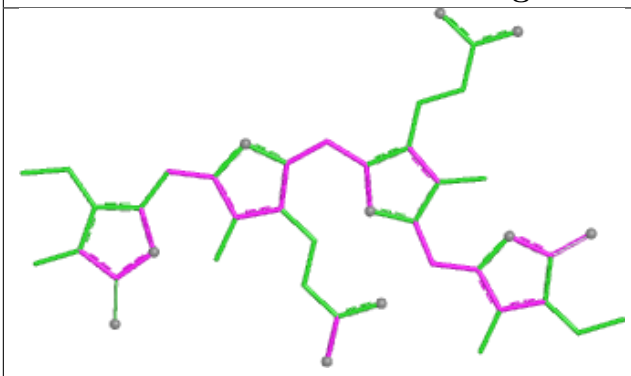


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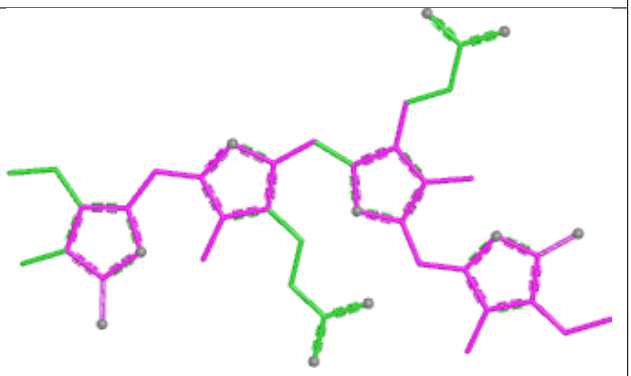


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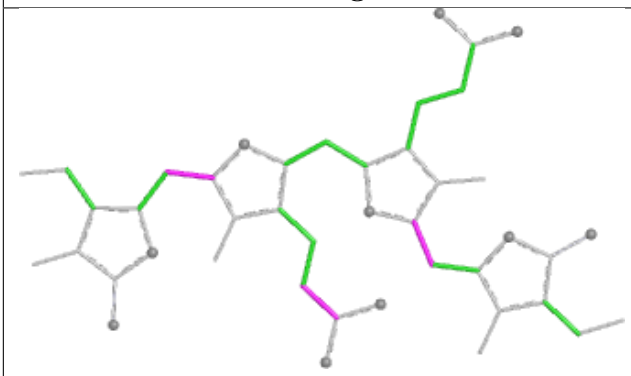
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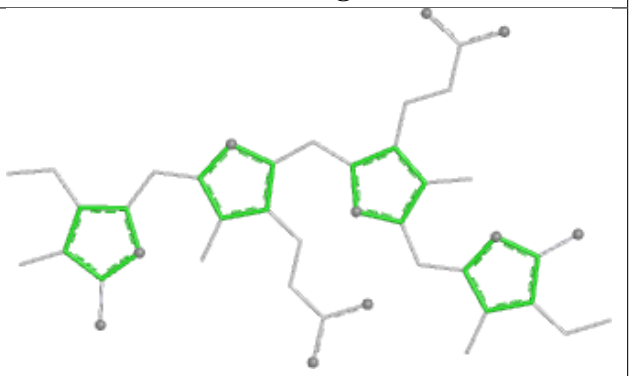
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Bond angles

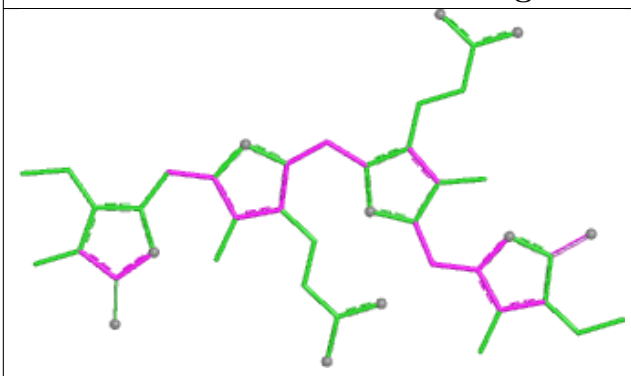


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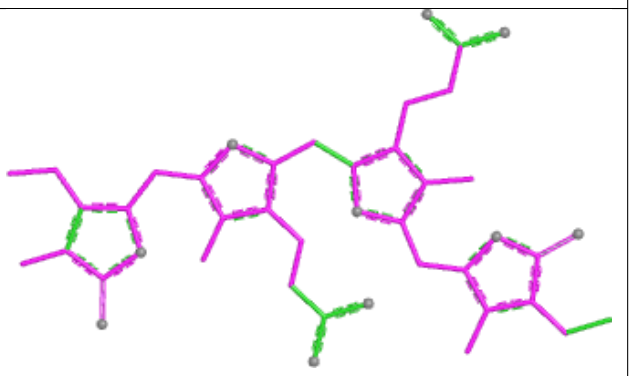


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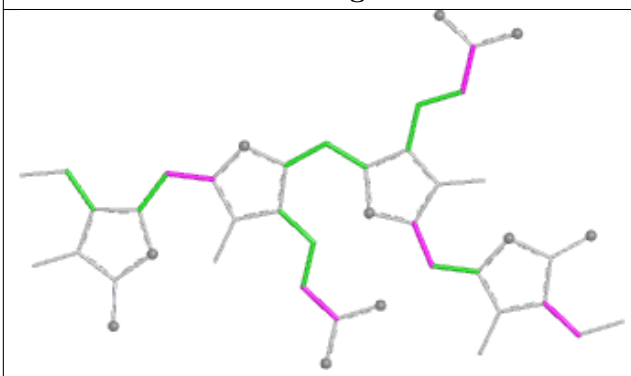
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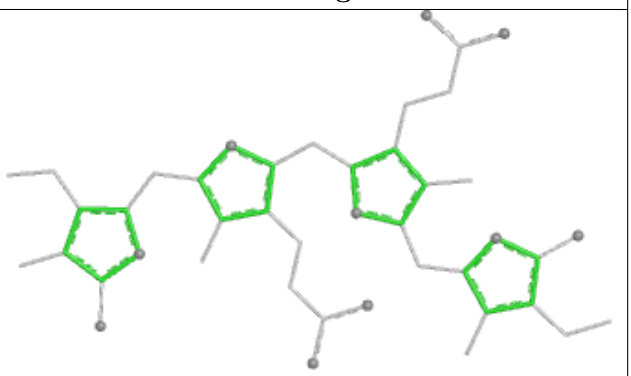
Bond lengths



Bond angles

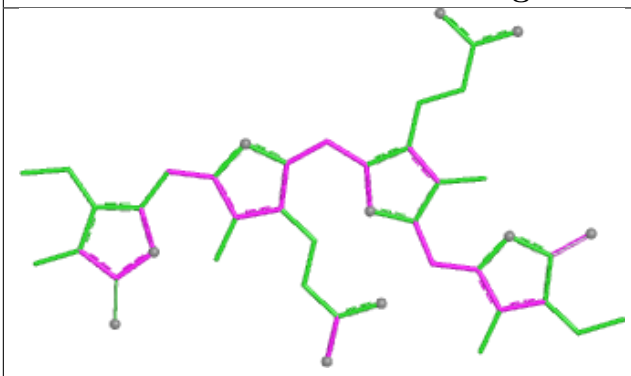


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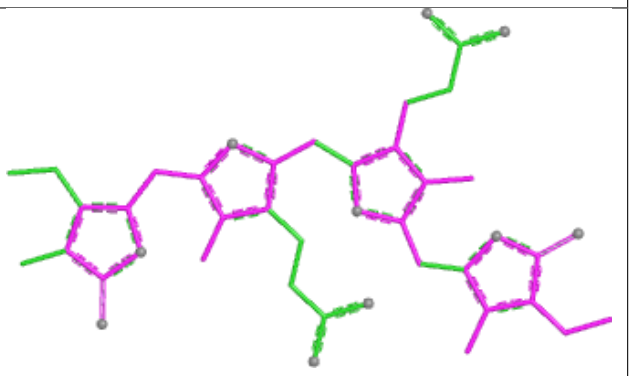


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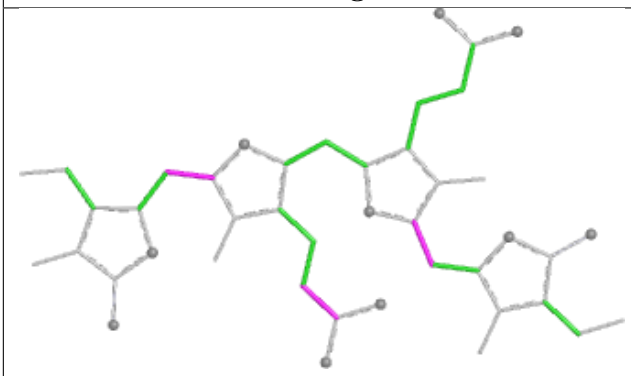
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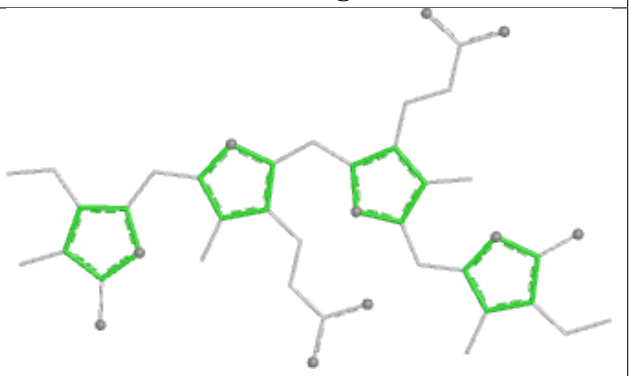
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Bond angles

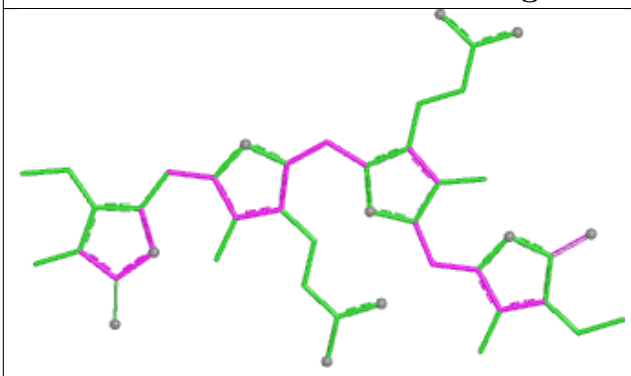


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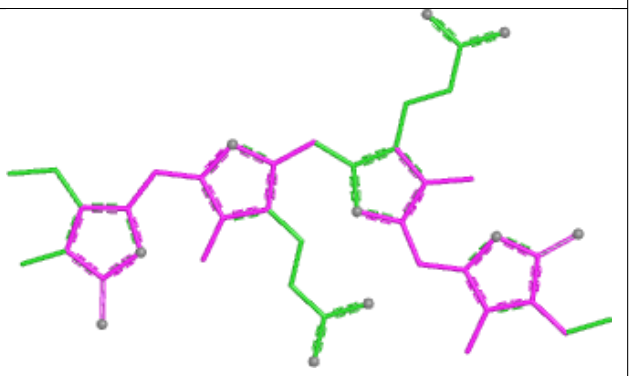


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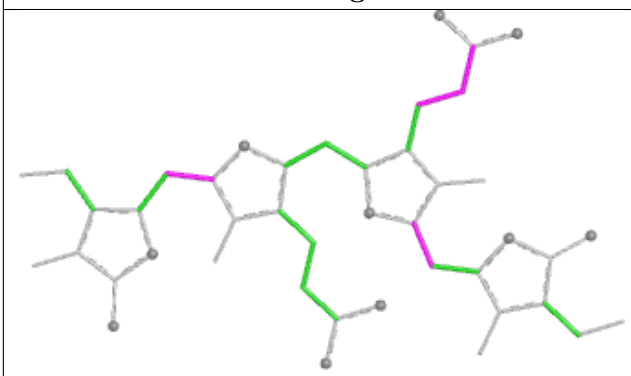
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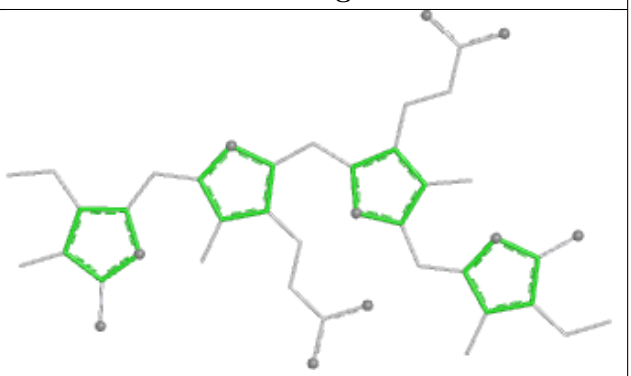
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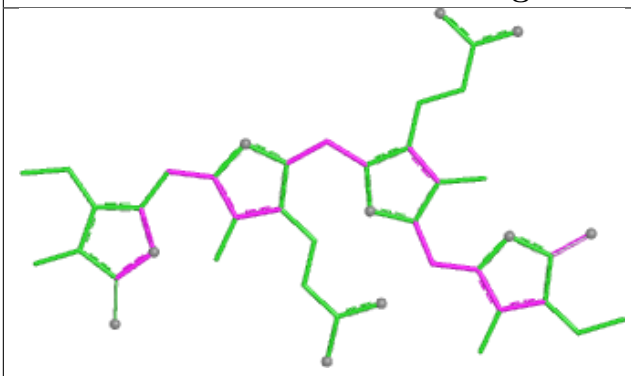


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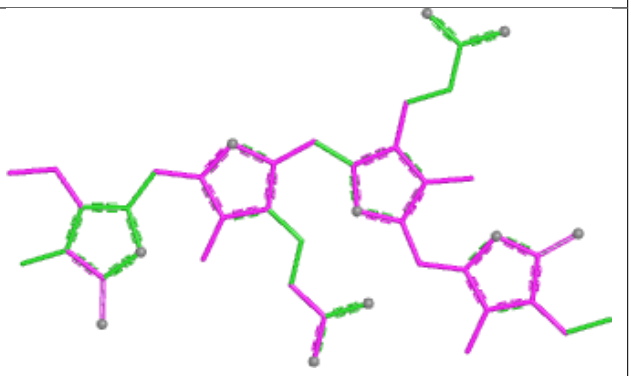


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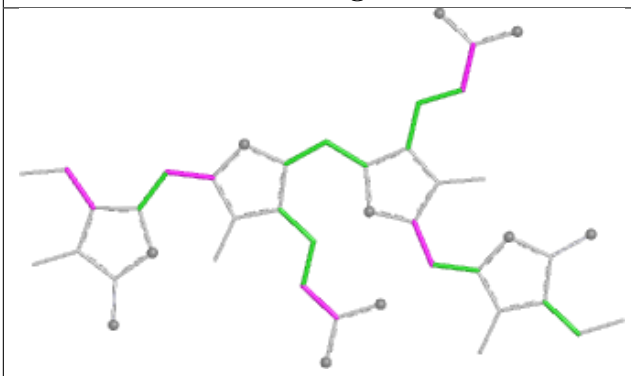
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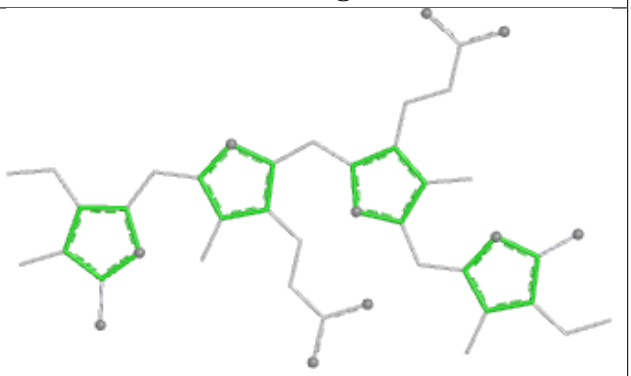
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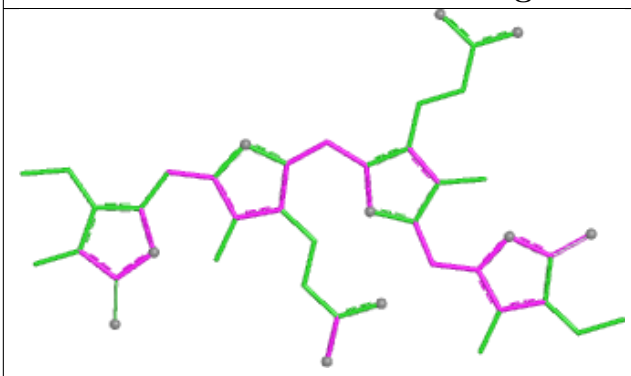


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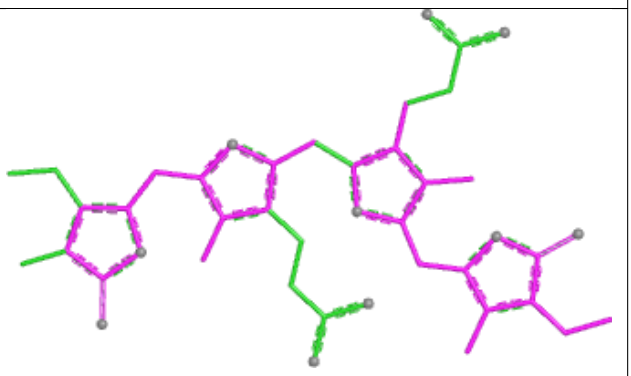


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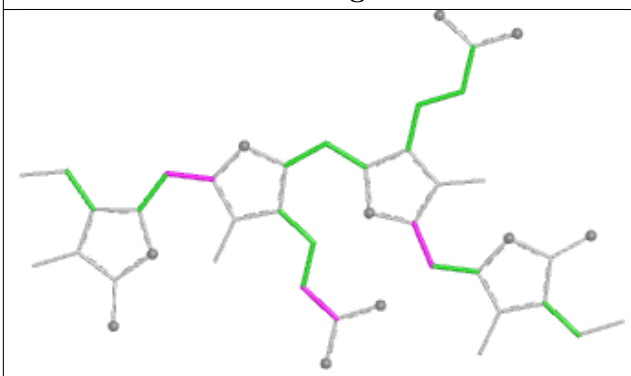
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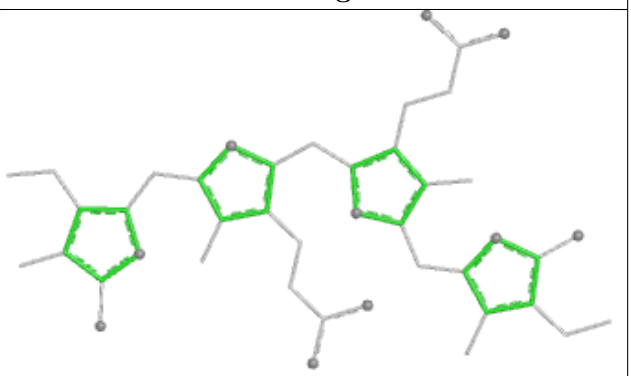
Bond lengths



Bond angles

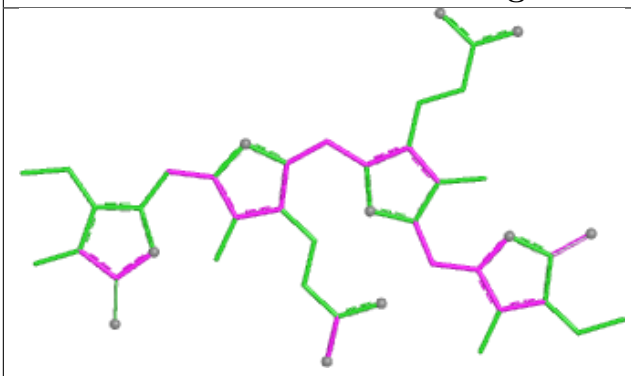


Torsions

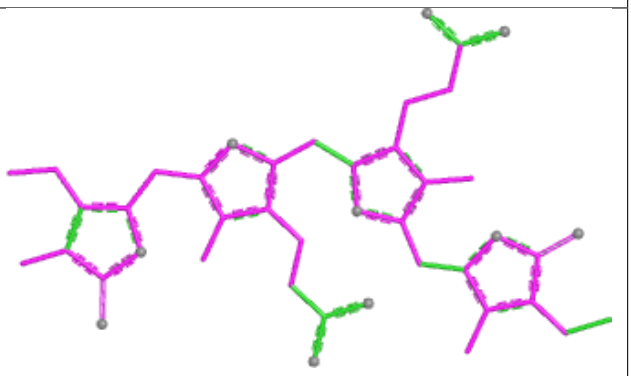


Rings

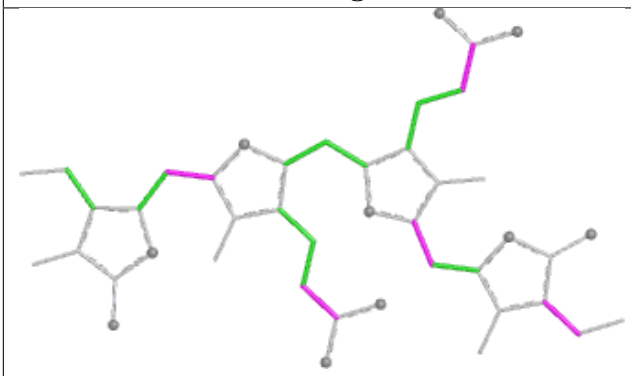
Ligand CYC W1 201



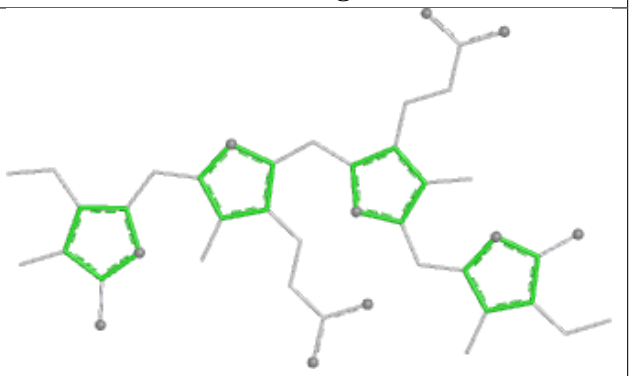
Bond lengths



Bond angles

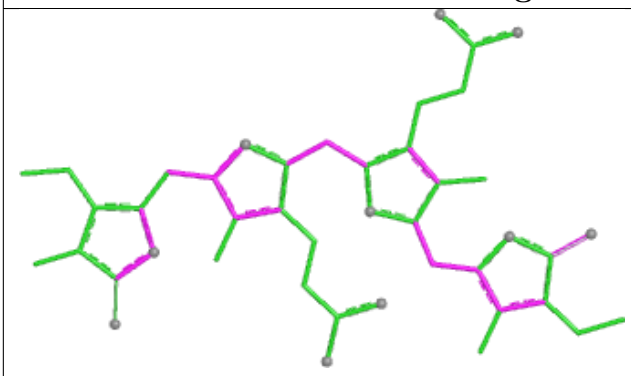


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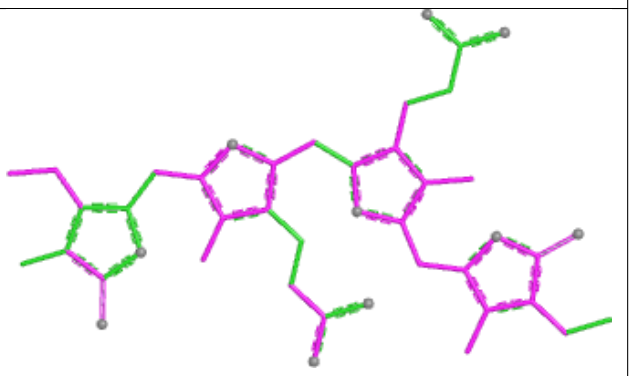


Rings

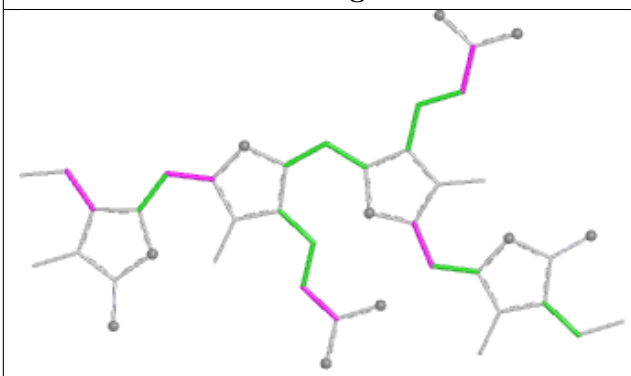
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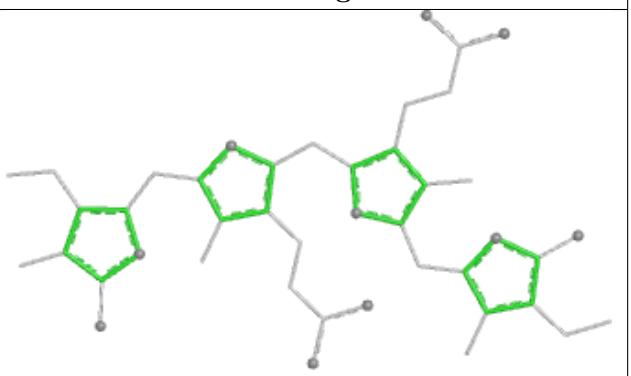
Bond lengths



Bond angles

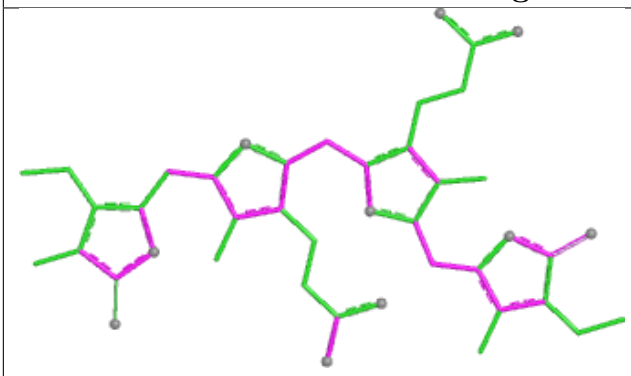


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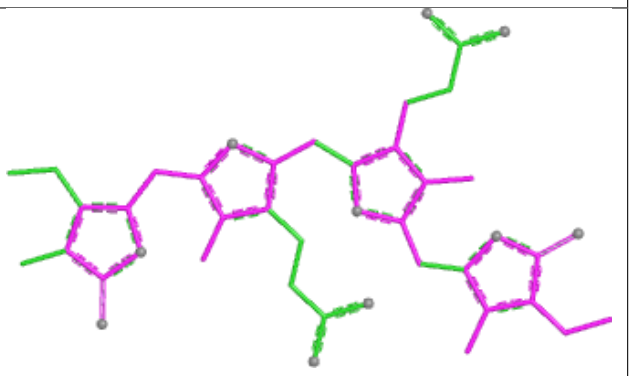


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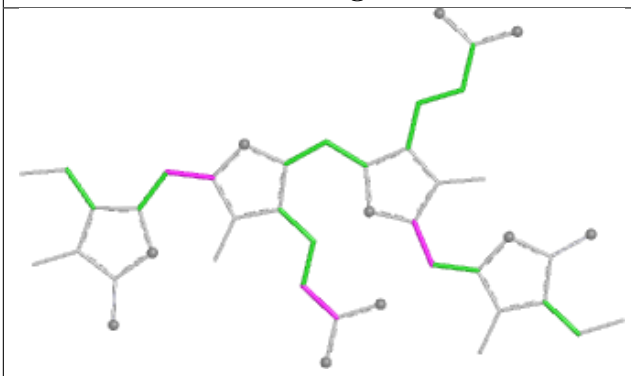
Ligand CYC N2 101



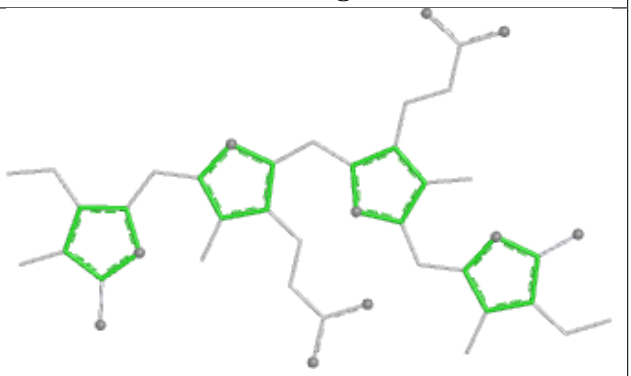
Bond lengths



Bond angles

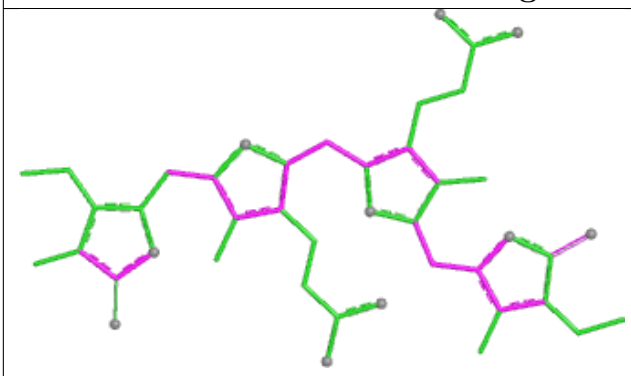


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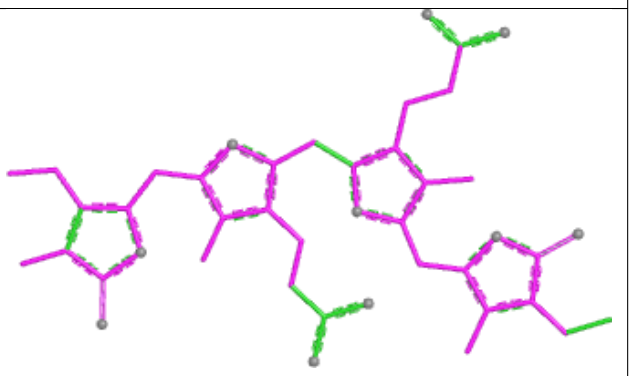


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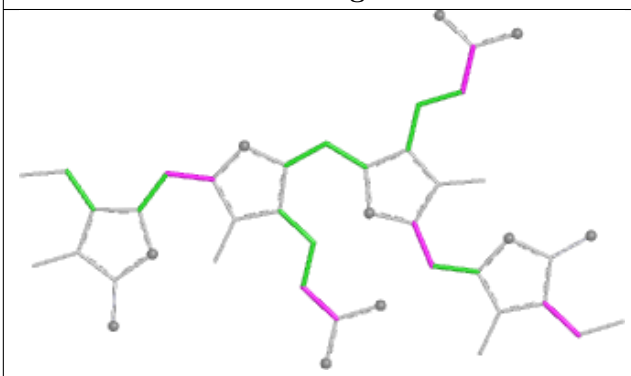
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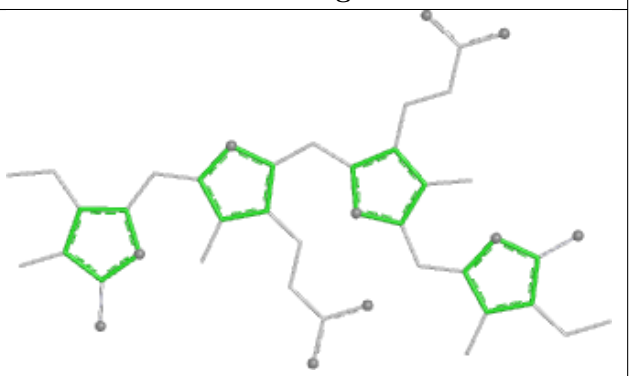
Bond lengths



Bond angles

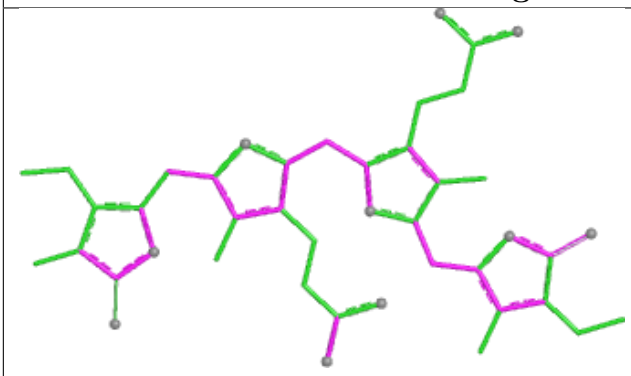


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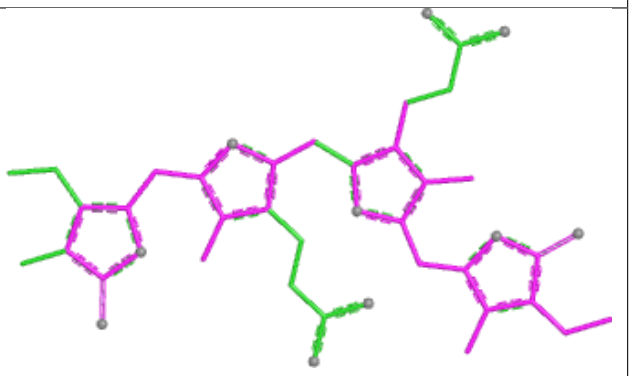


Rings

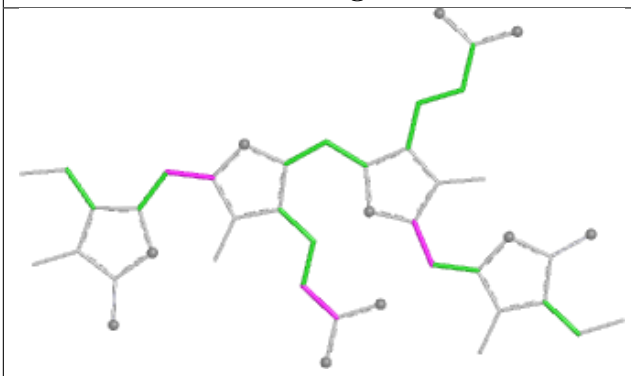
Ligand CYC D4 202



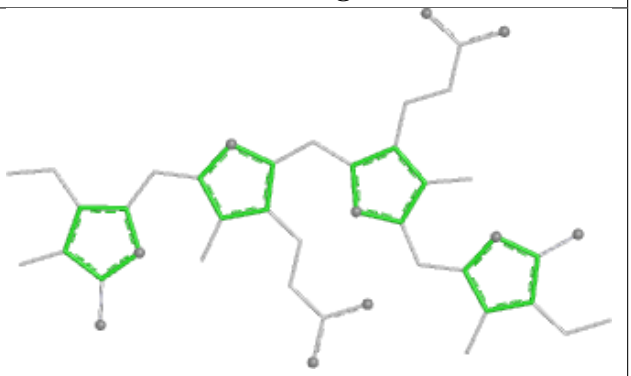
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Bond angles

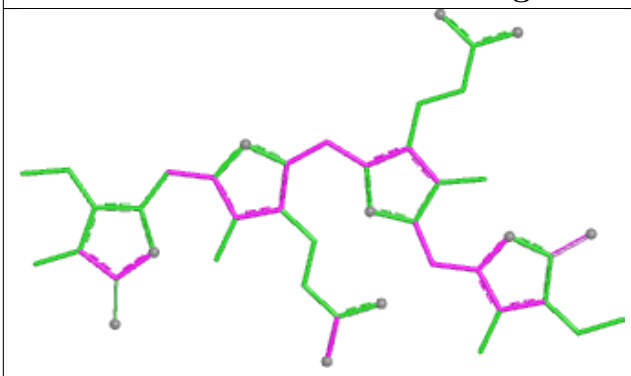


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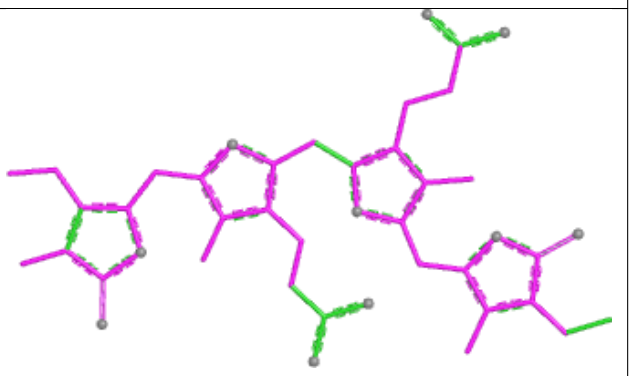


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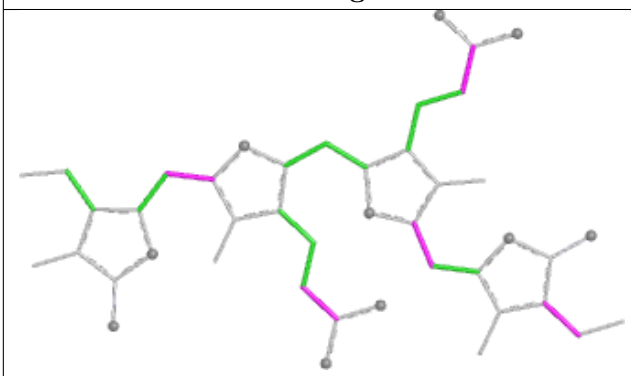
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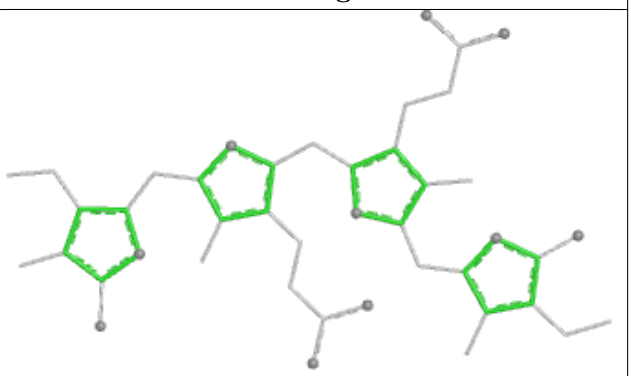
Bond lengths



Bond angles

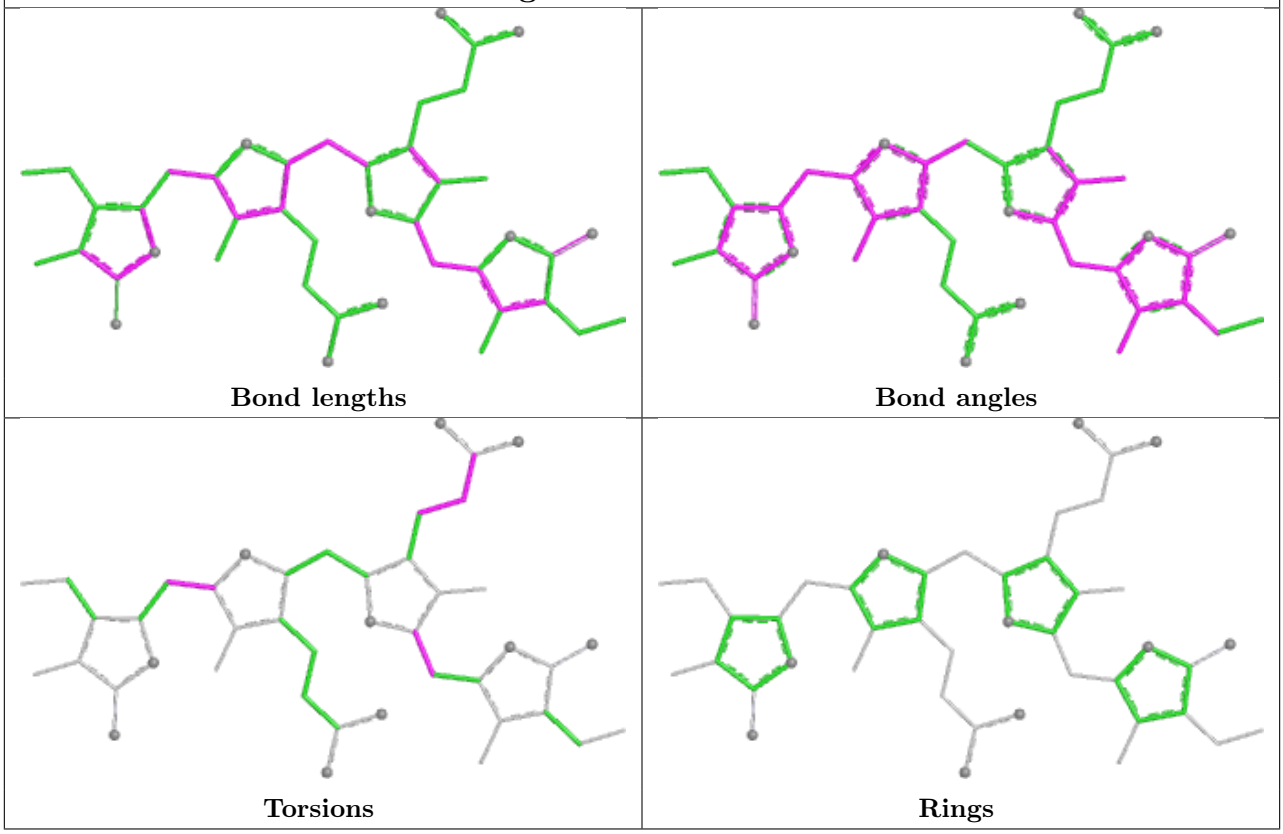


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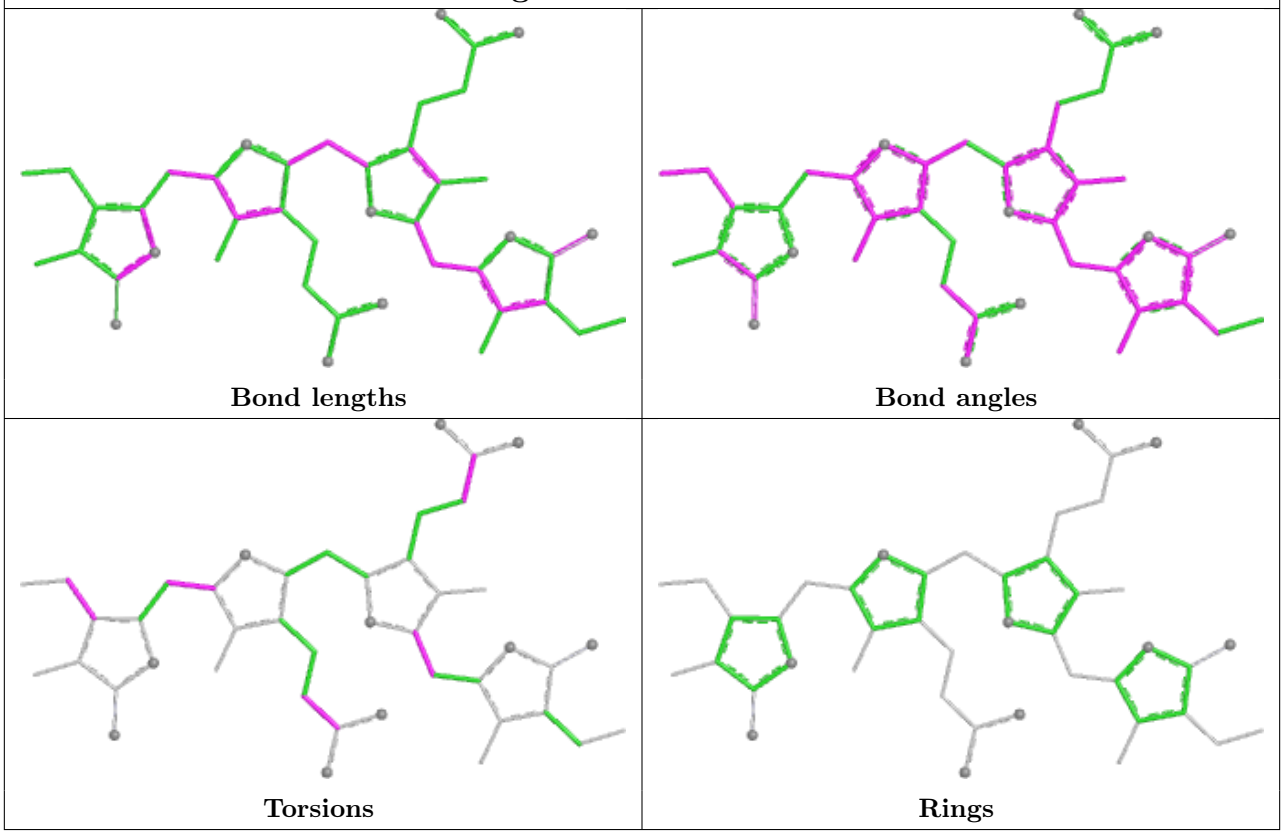


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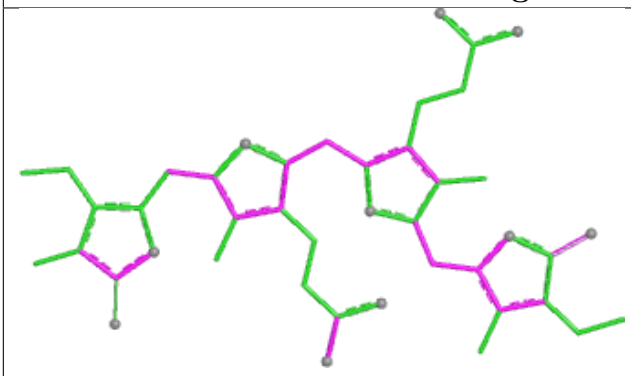
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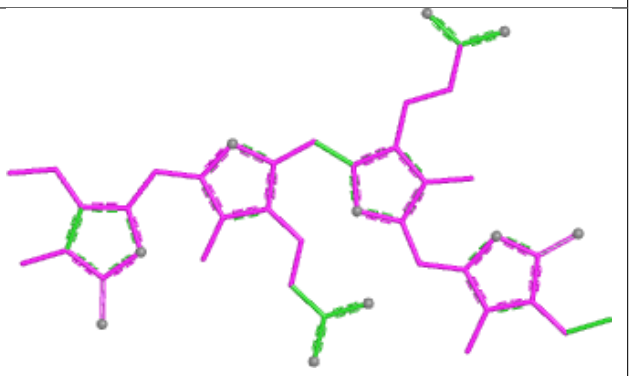
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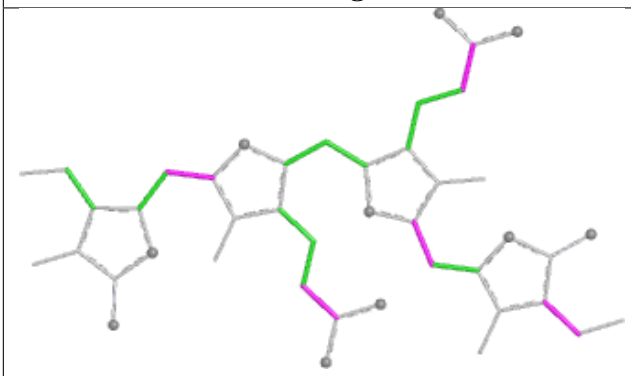
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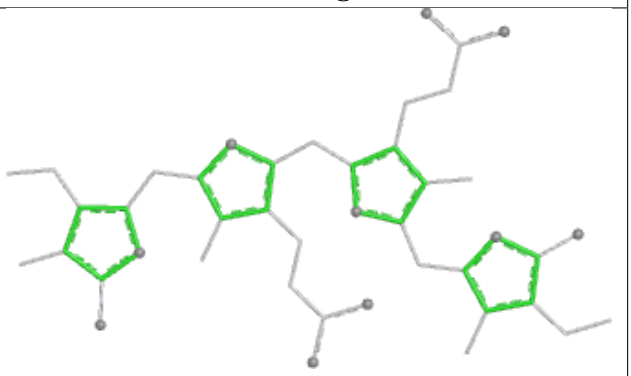
Bond lengths



Bond angles

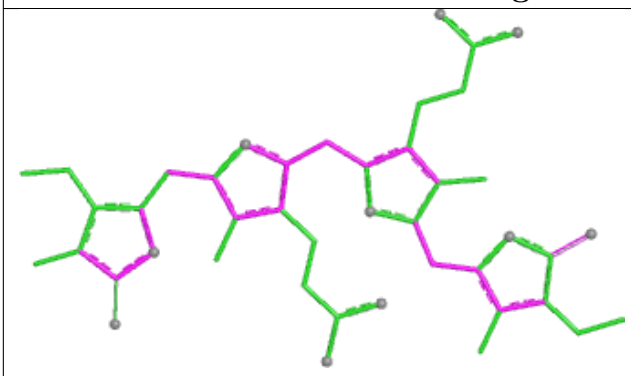


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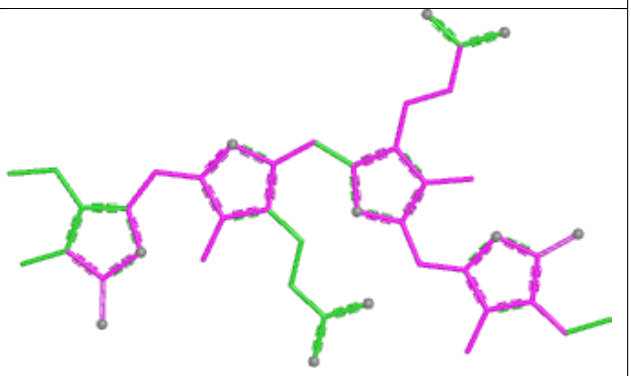


Rings

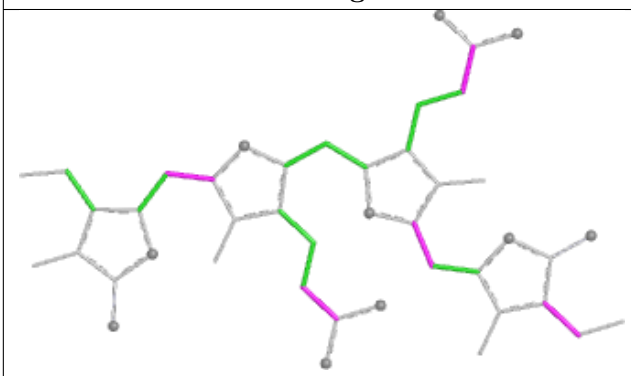
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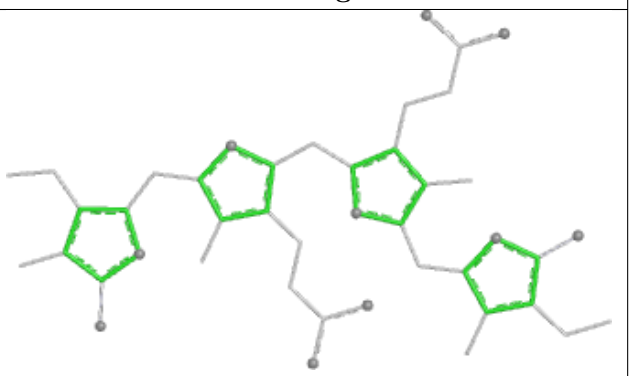
Bond lengths



Bond angles

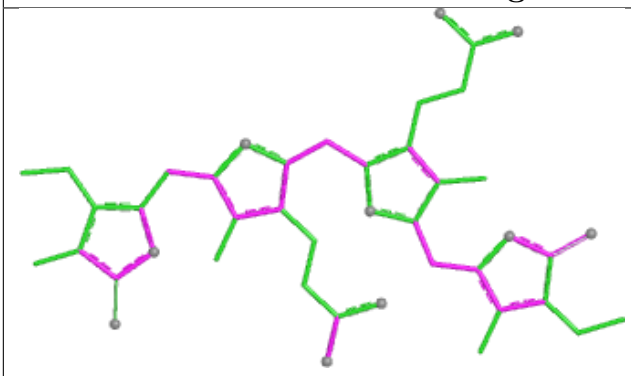


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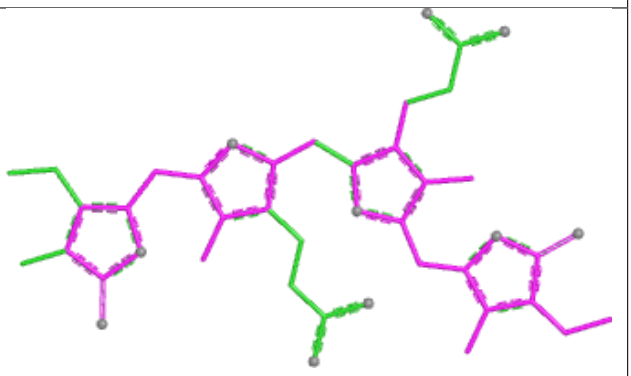


Rings

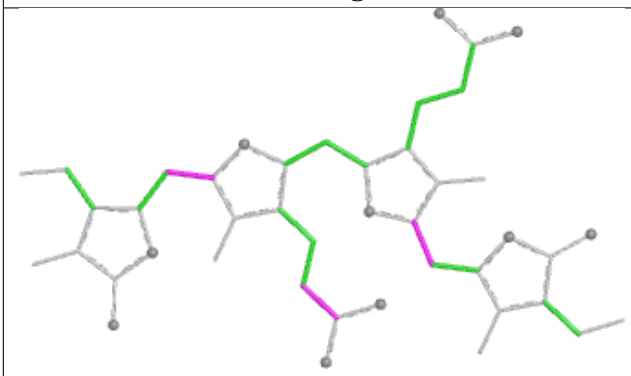
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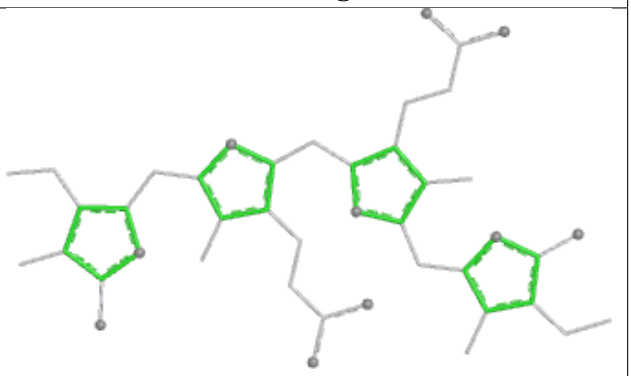
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Bond angles

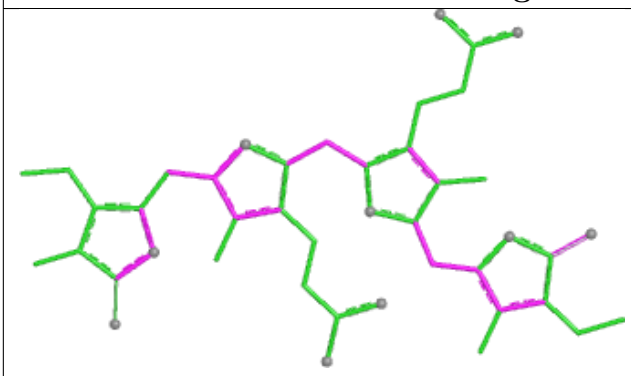


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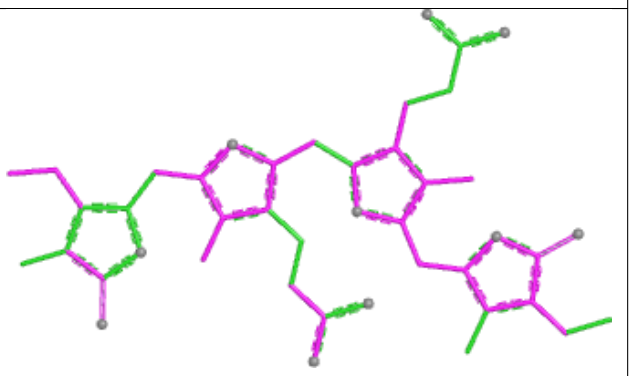


Rings

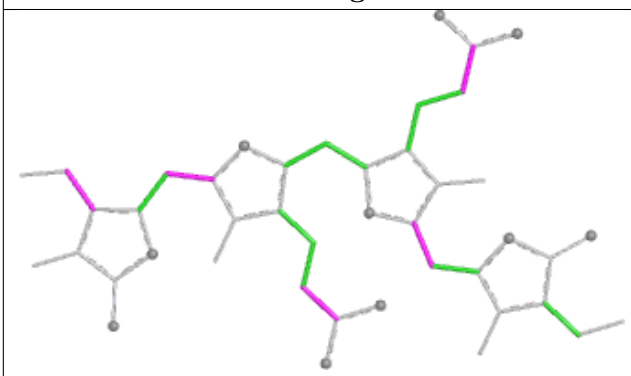
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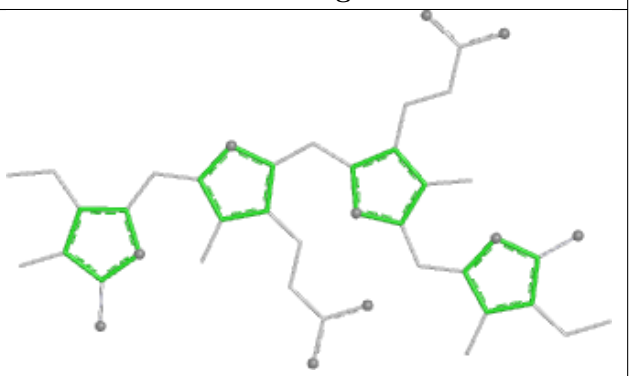
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Bond angles

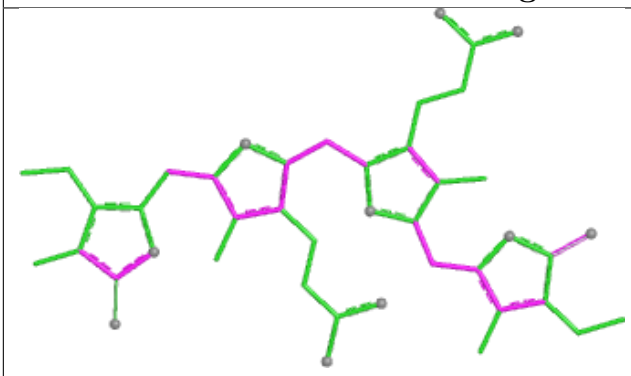


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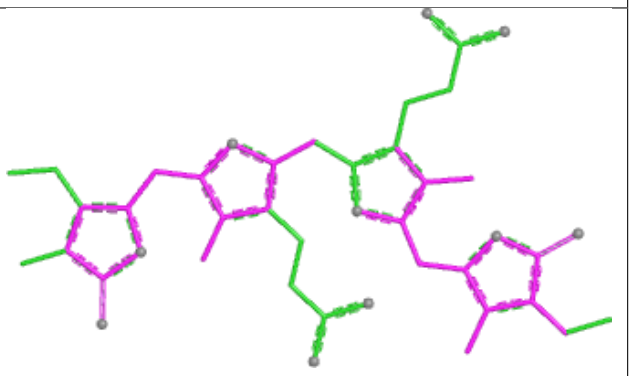


Rings

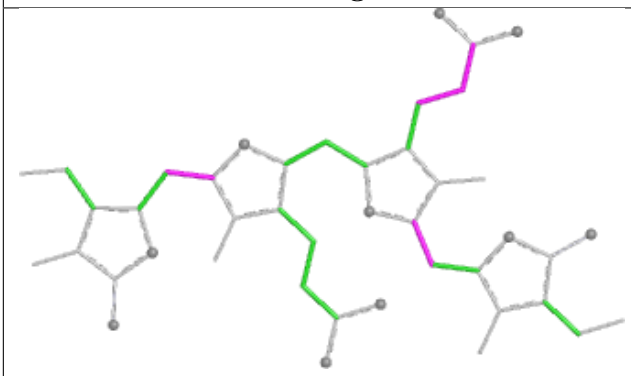
Ligand CYC s7 201



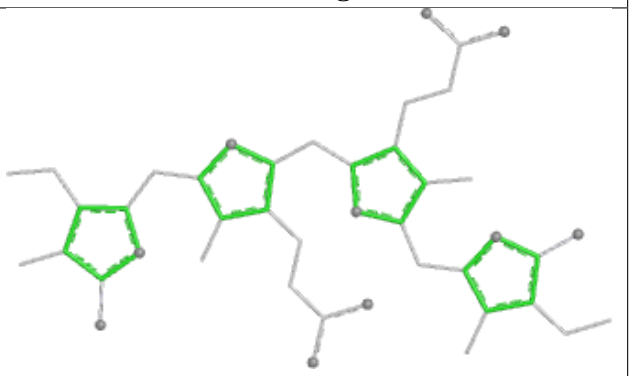
Bond lengths



Bond angles

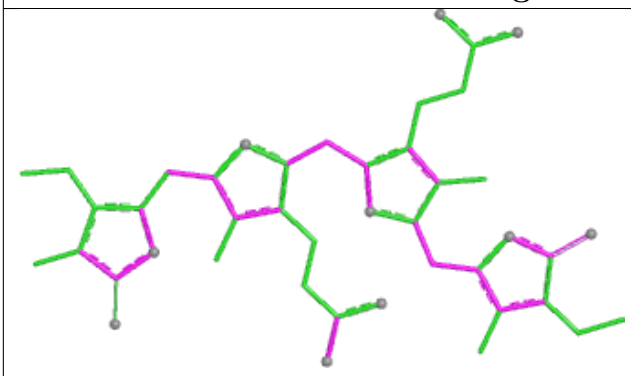


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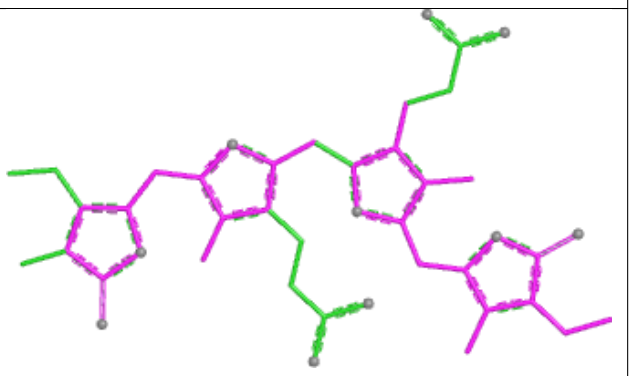


Rings

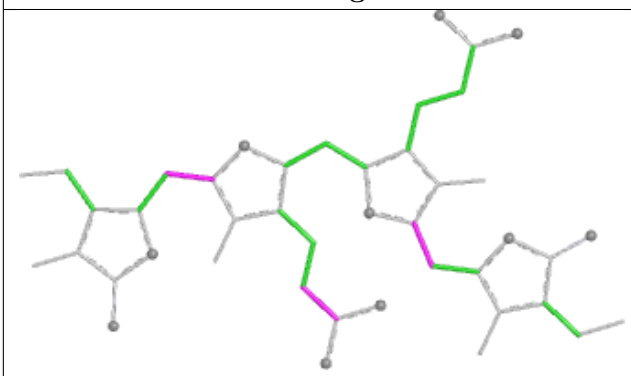
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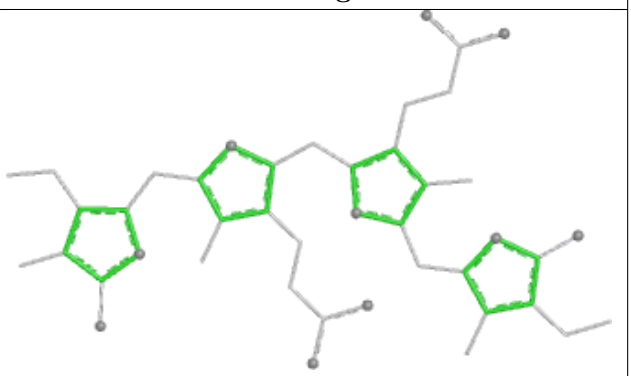
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Bond angles

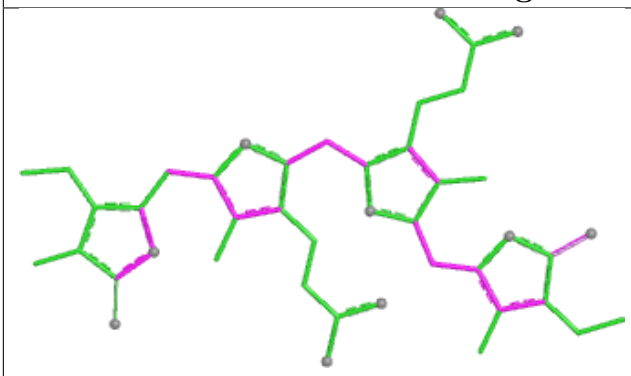


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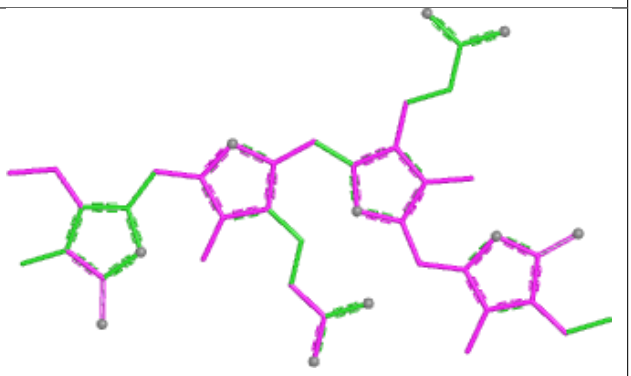


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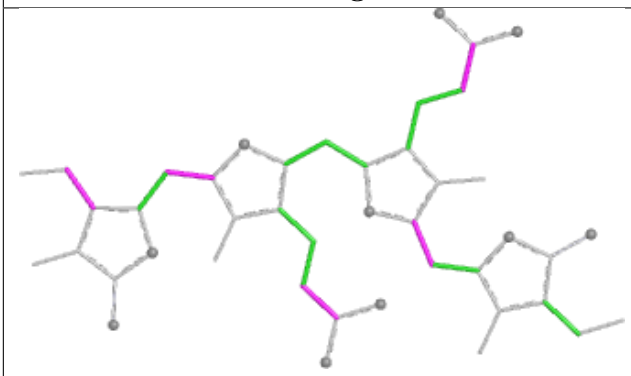
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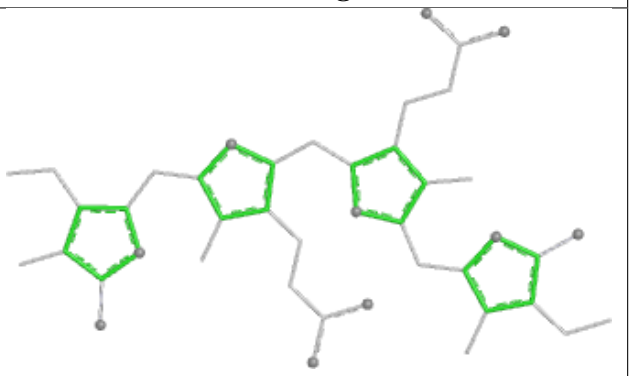
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Bond angles

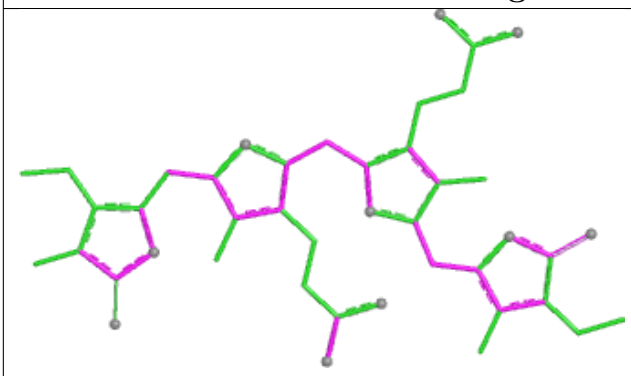


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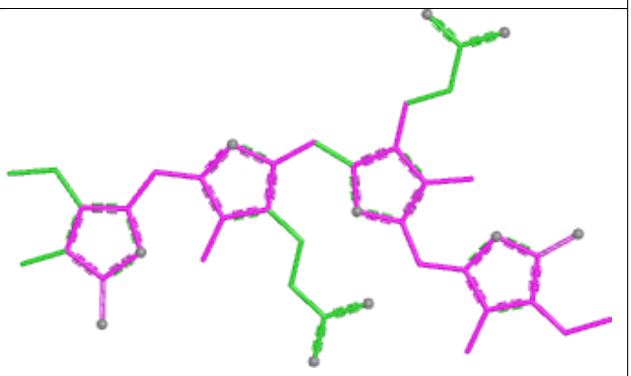


Rings

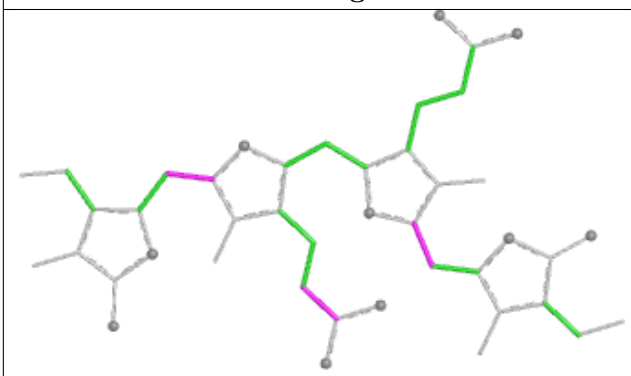
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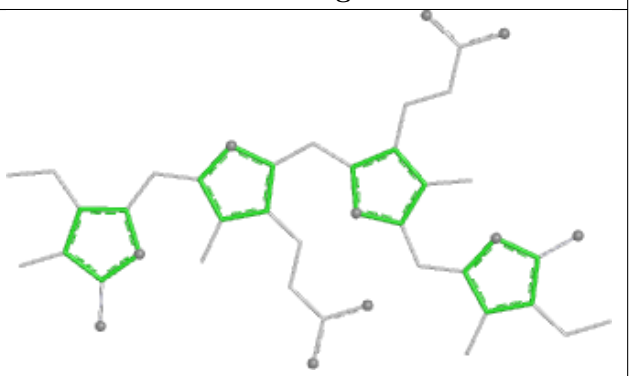
Bond lengths



Bond angles

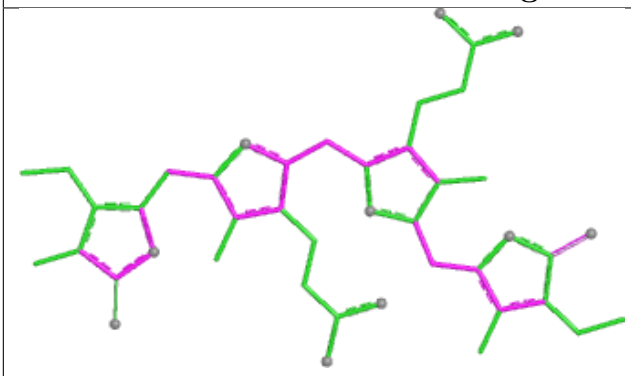


Torsions

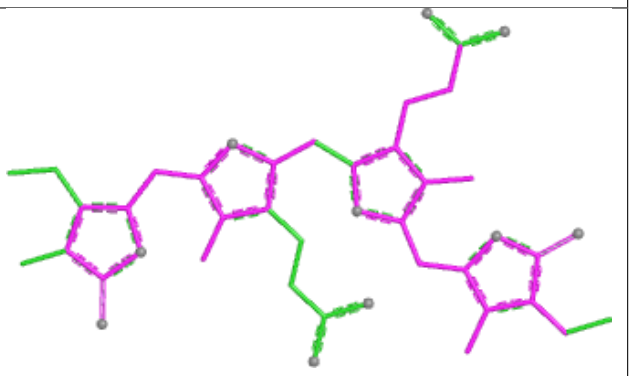


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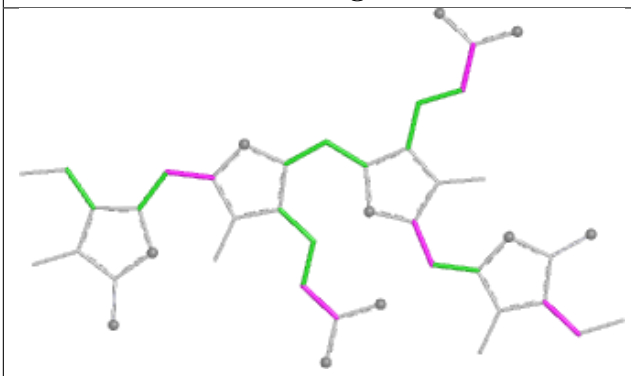
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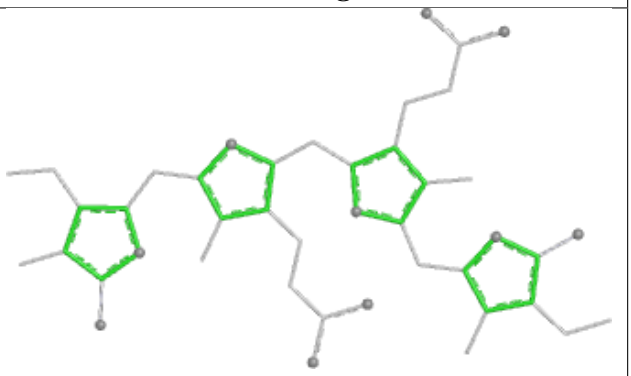
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Bond angles

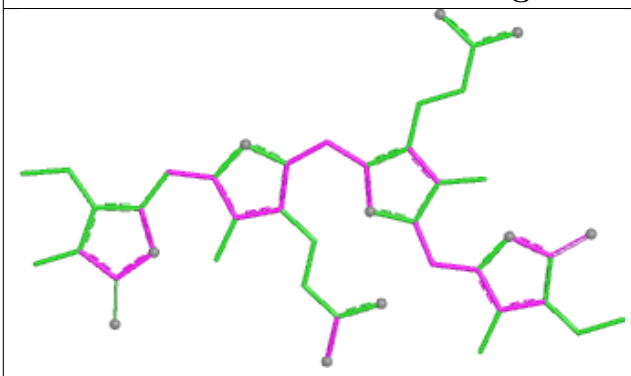


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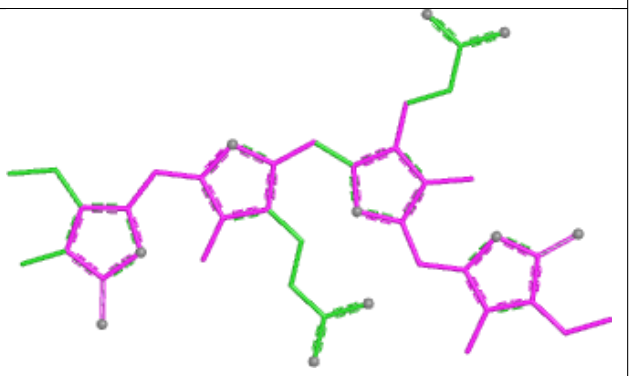


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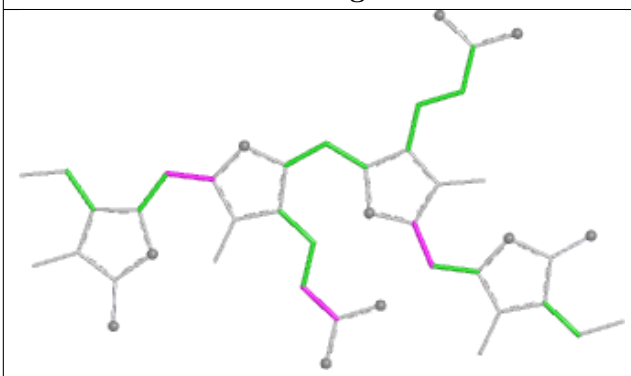
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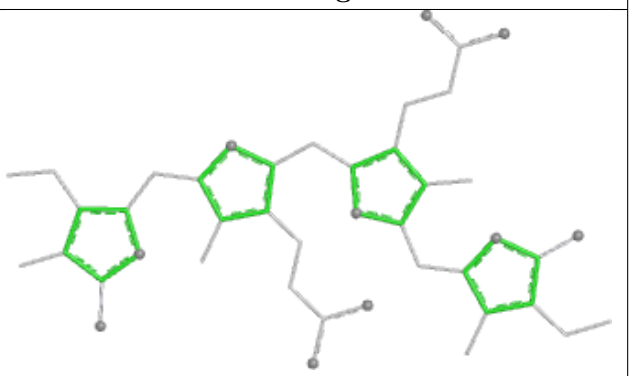
Bond lengths



Bond angles

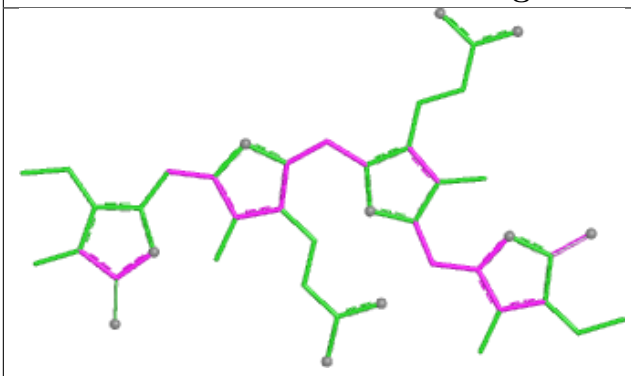


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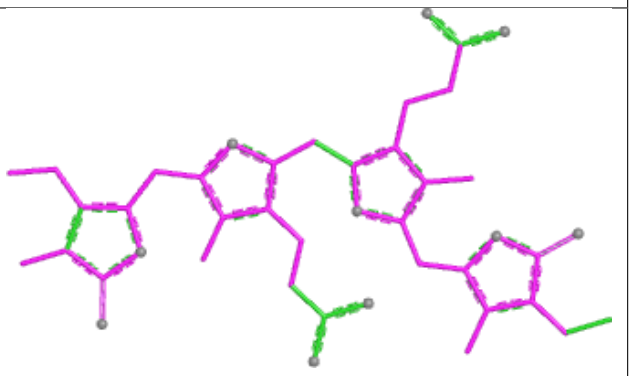


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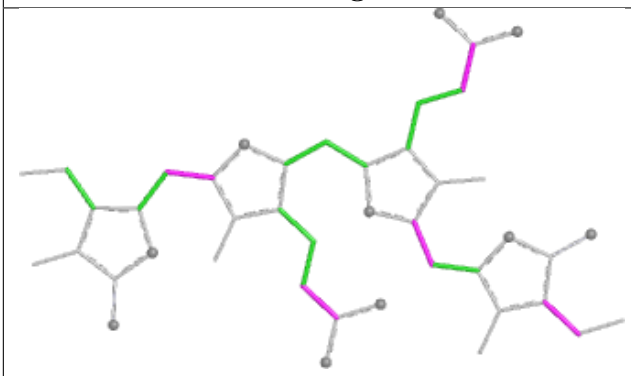
Ligand CYC X8 201



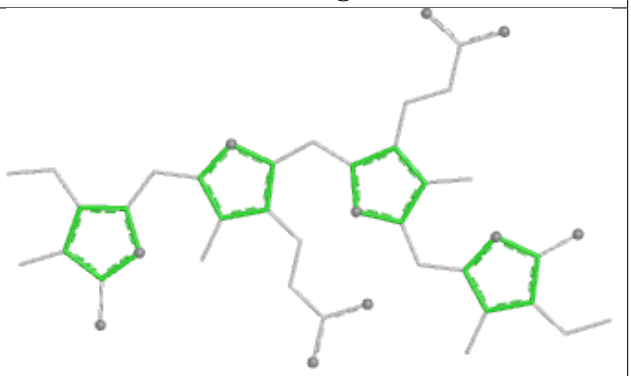
Bond lengths



Bond angles

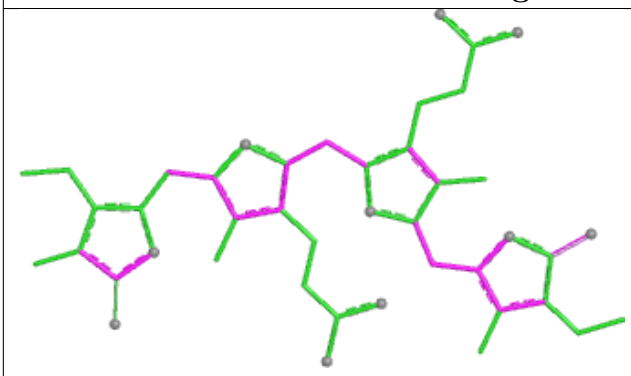


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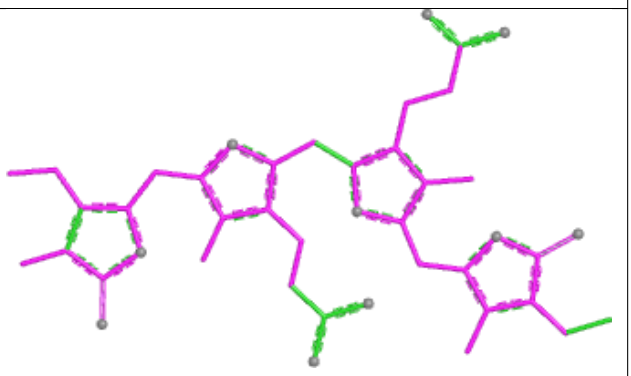


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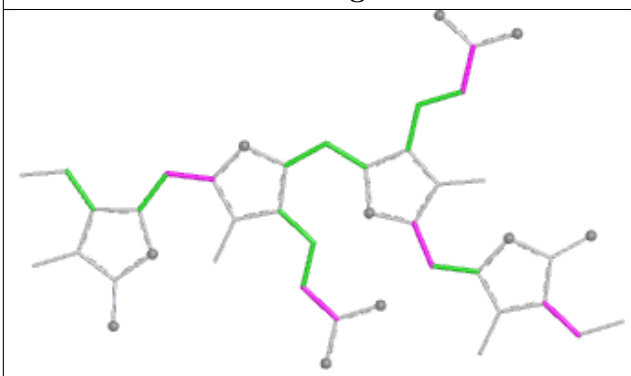
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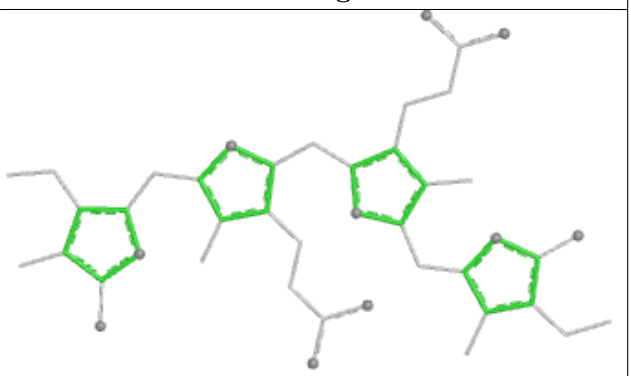
Bond lengths



Bond angles

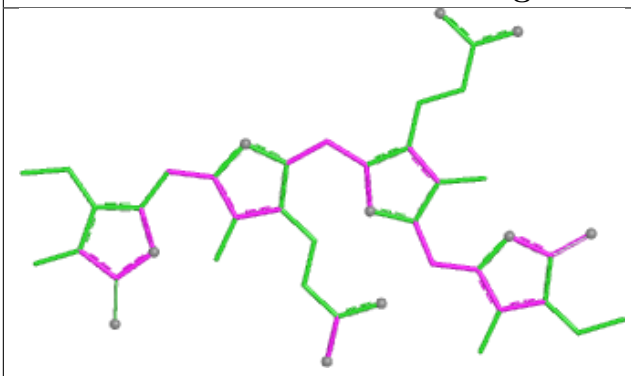


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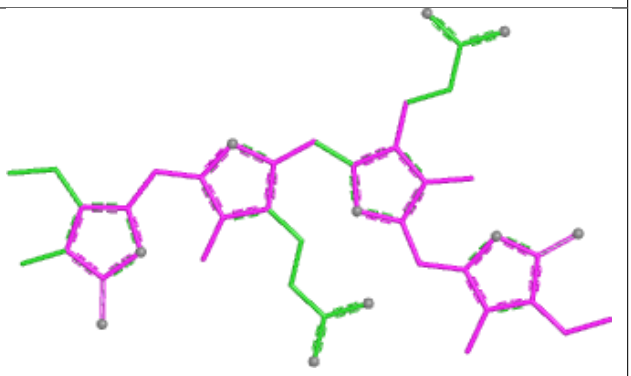


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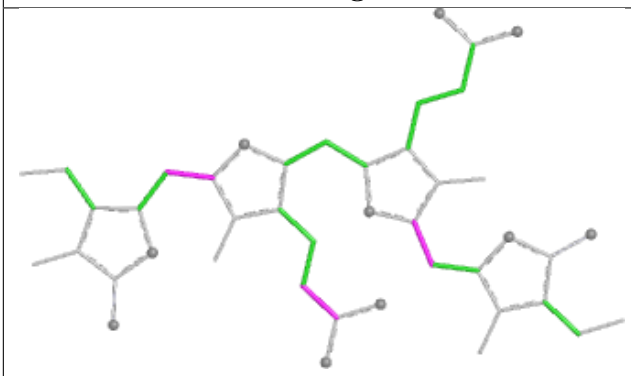
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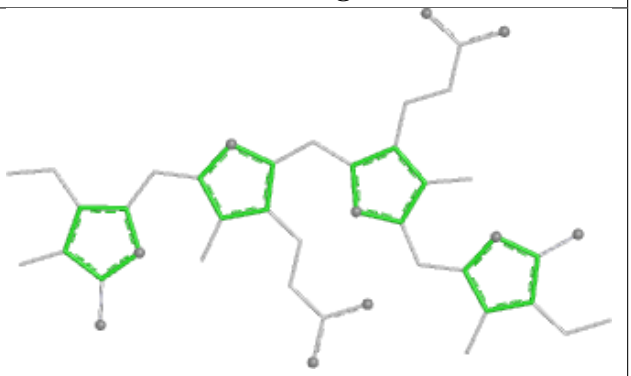
Bond lengths



Bond angles

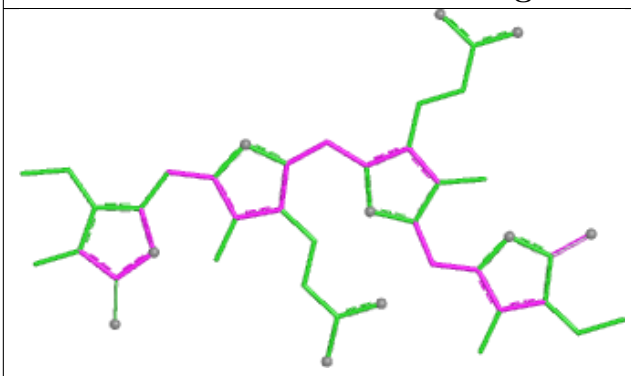


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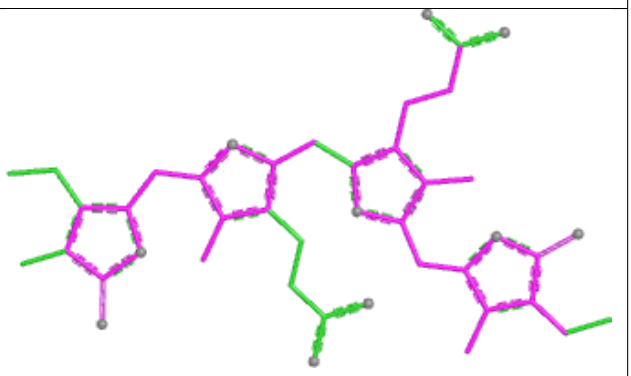


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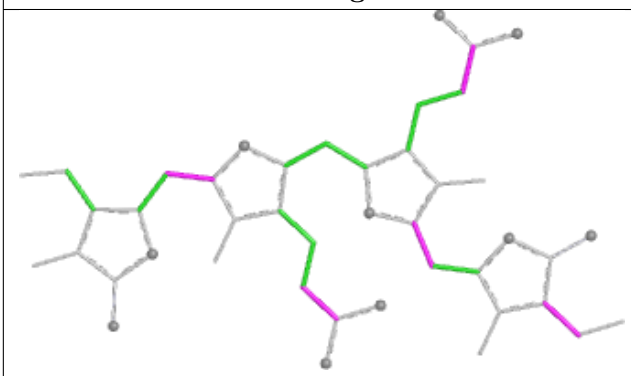
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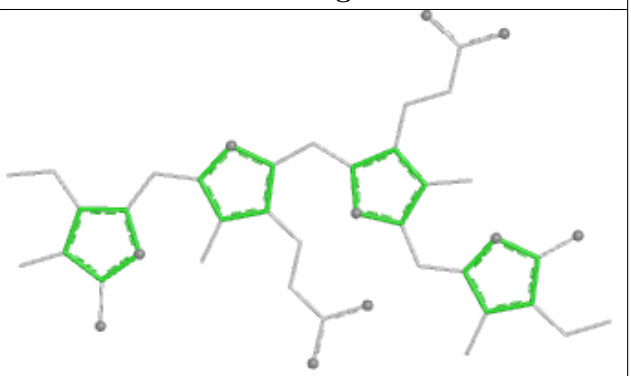
Bond lengths



Bond angles

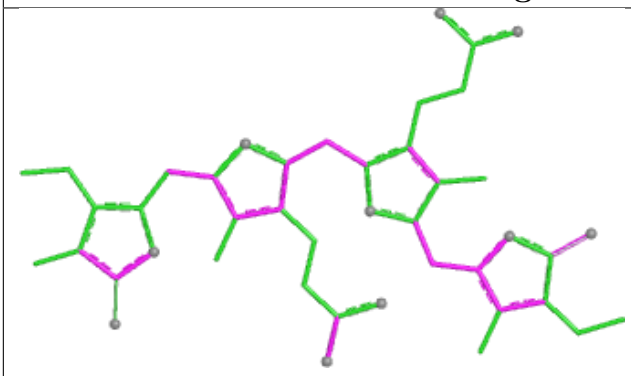


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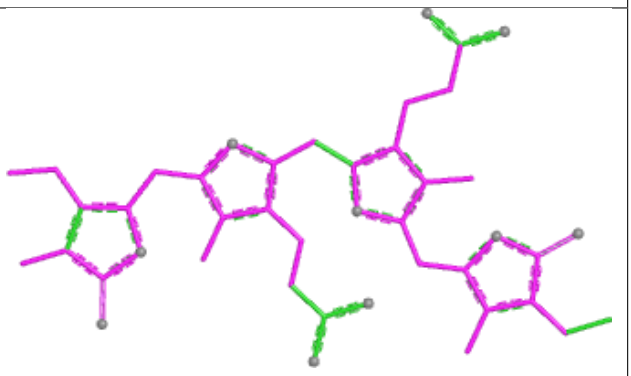


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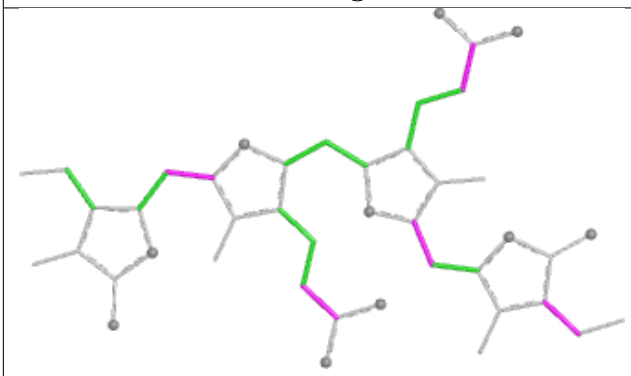
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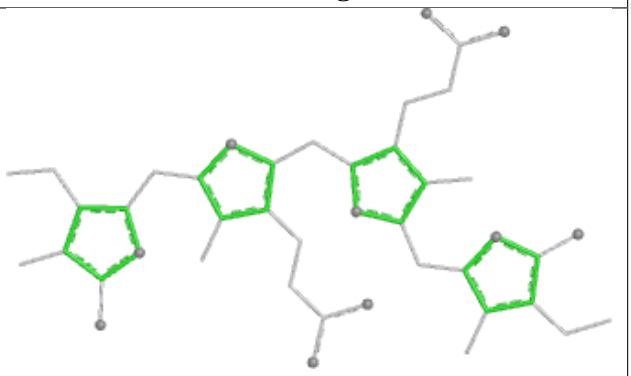
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Bond angles

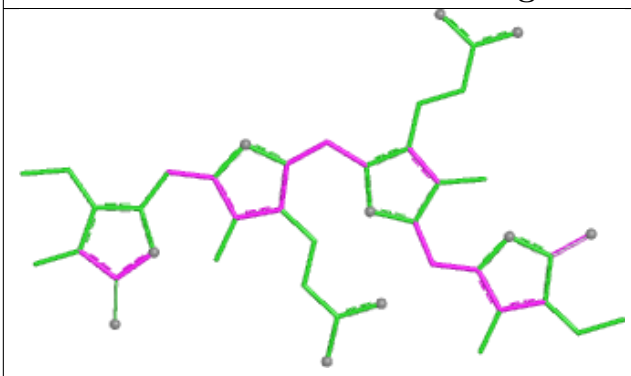


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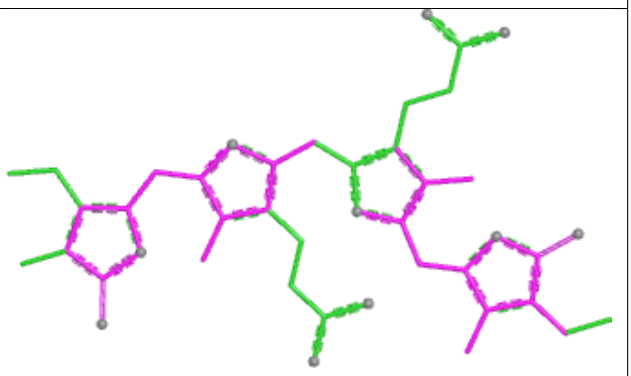


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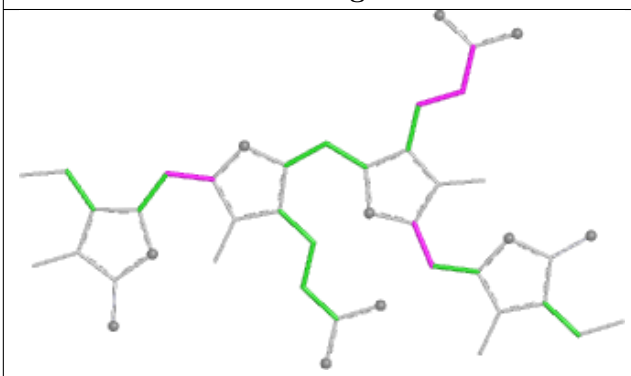
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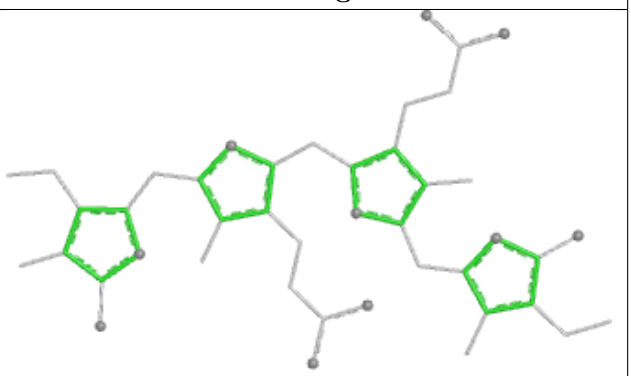
Bond lengths



Bond angles

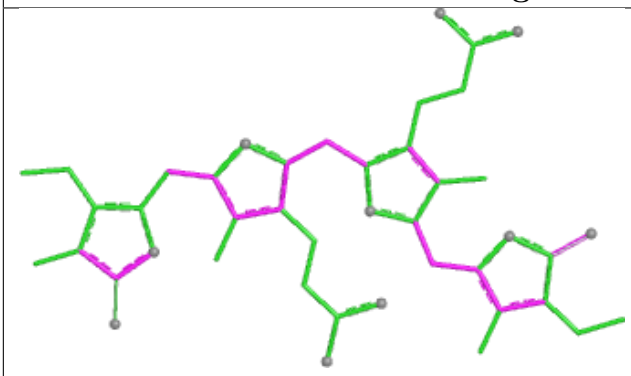


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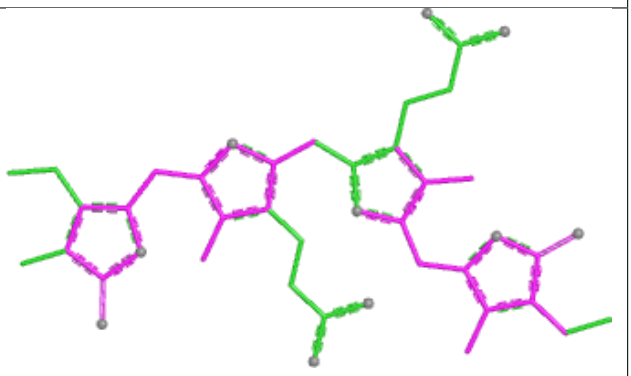


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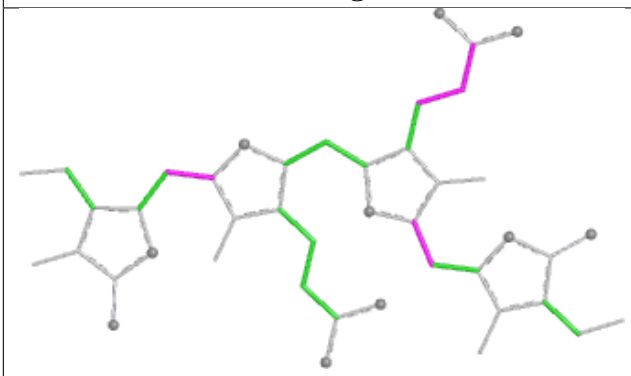
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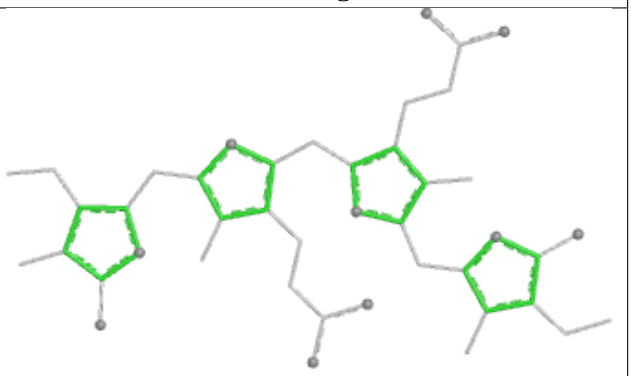
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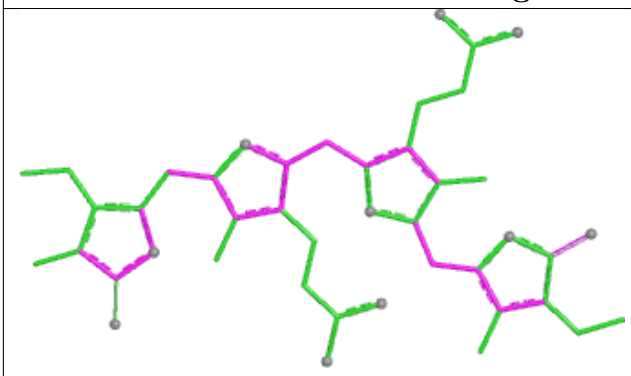


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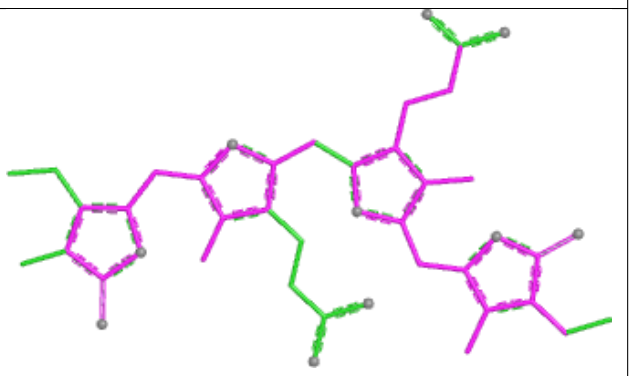


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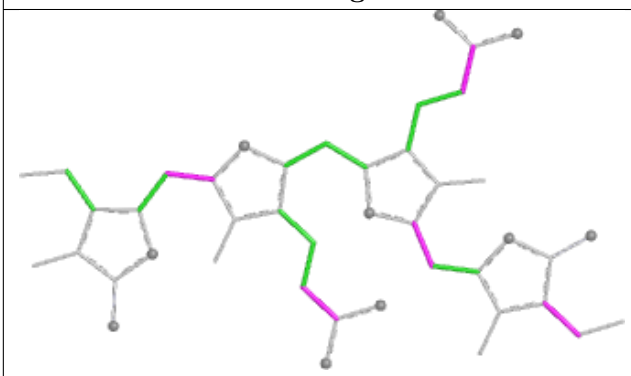
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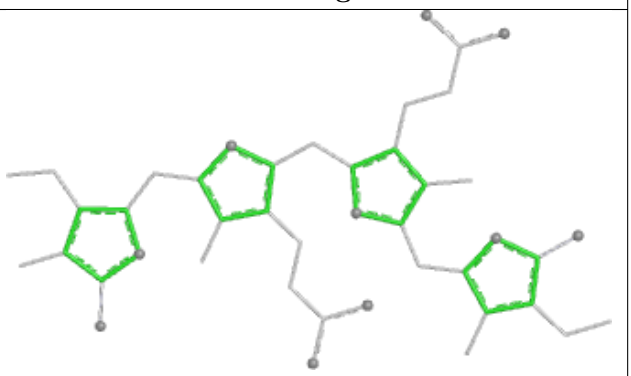
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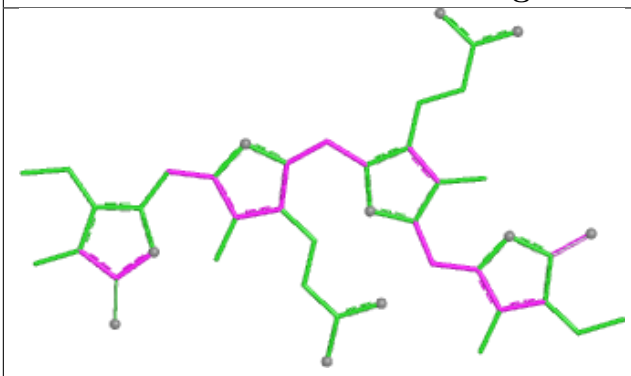


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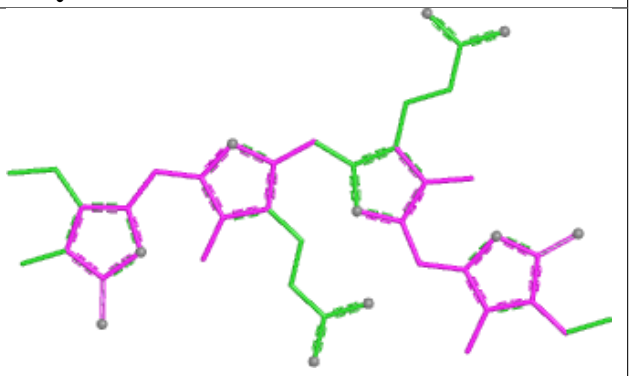


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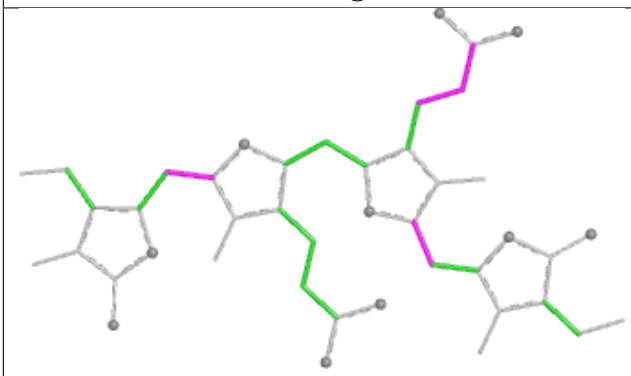
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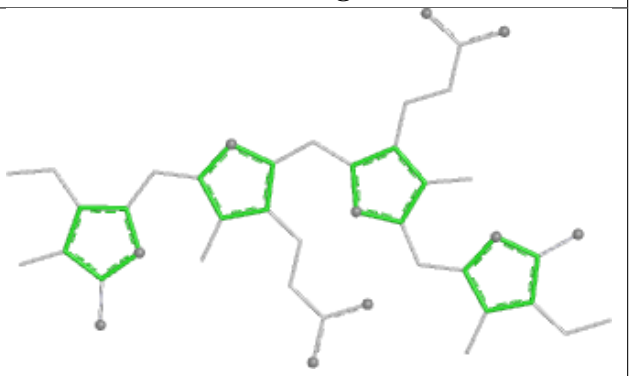
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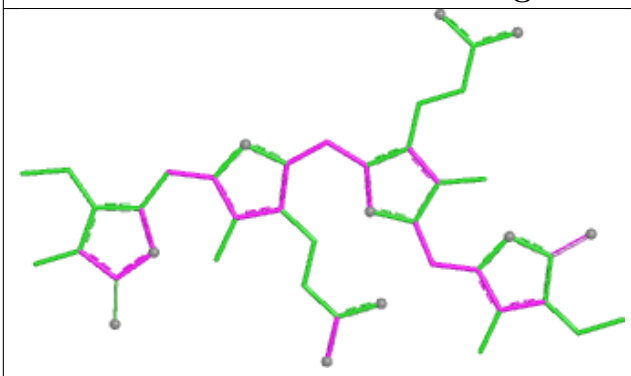


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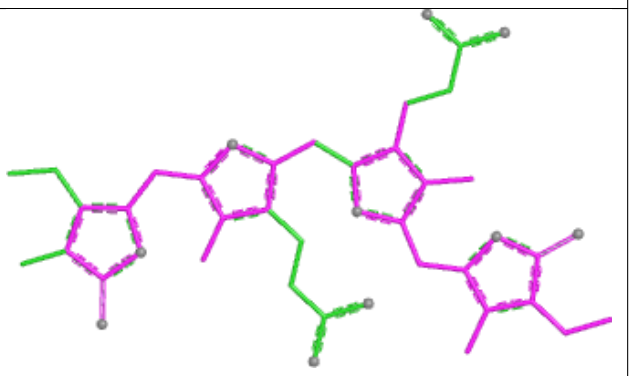


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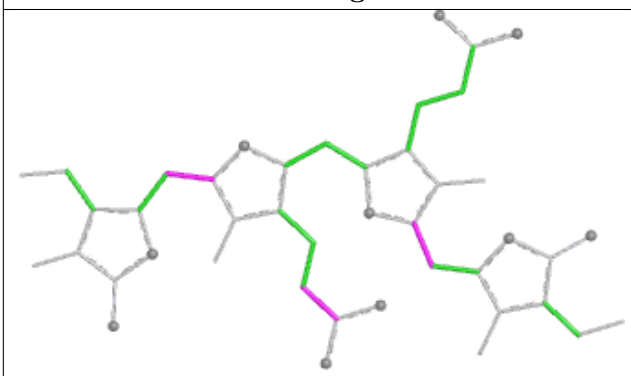
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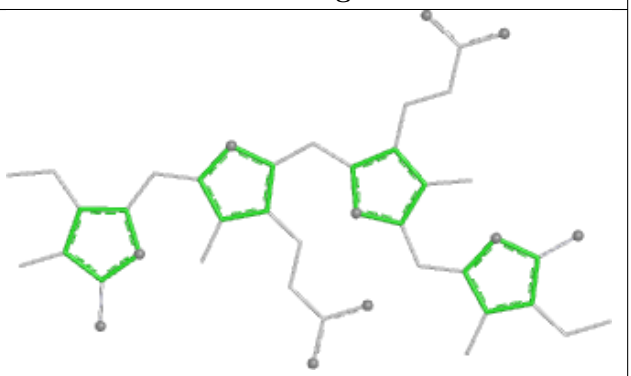
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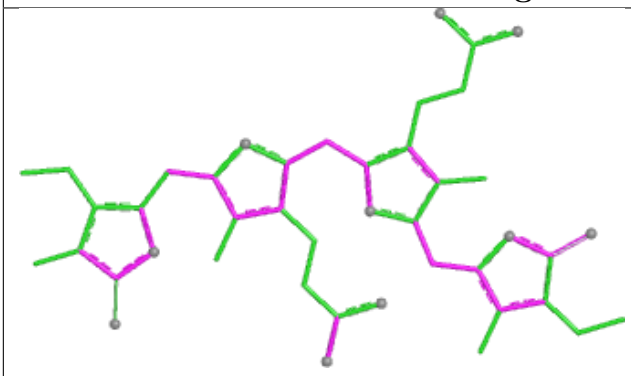


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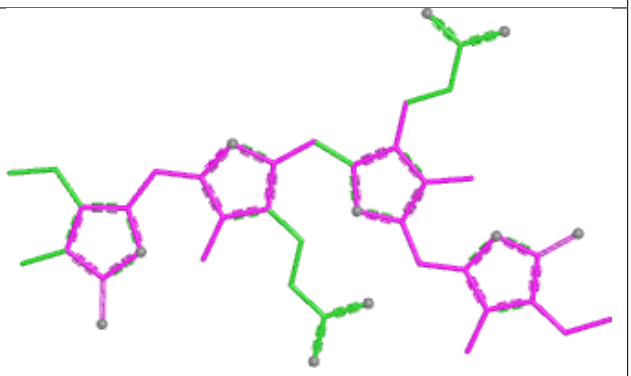


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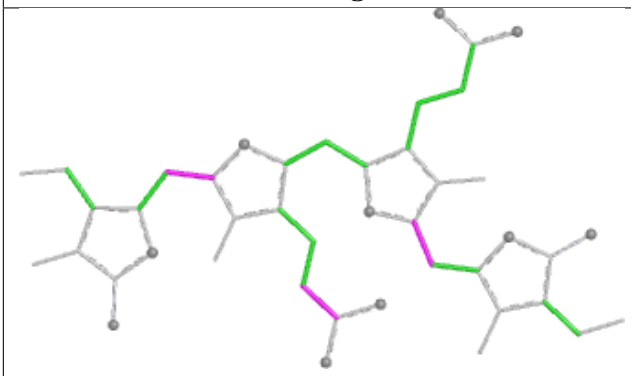
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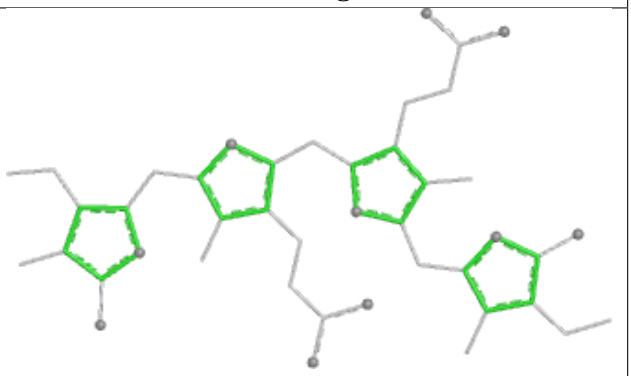
Bond lengths



Bond angles

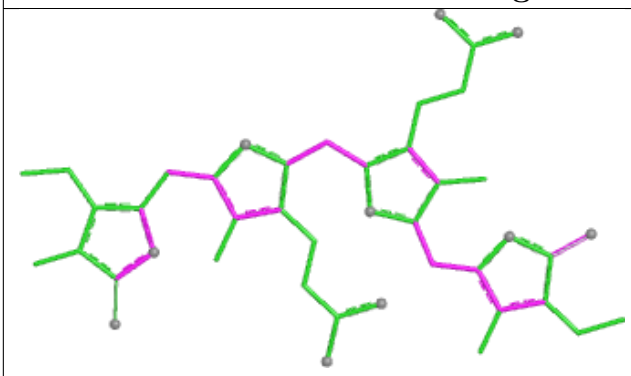


Torsions

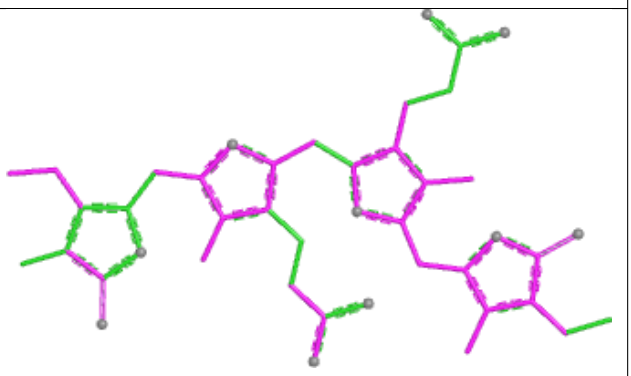


Rings

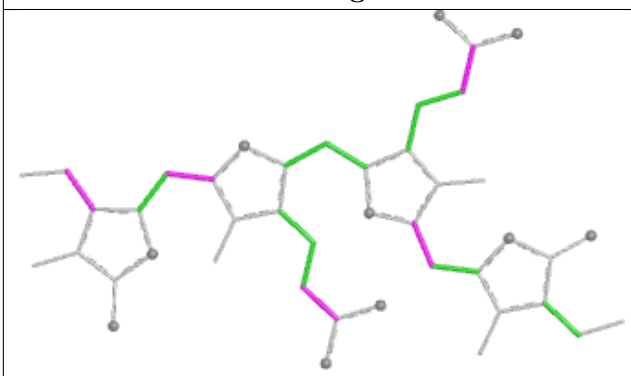
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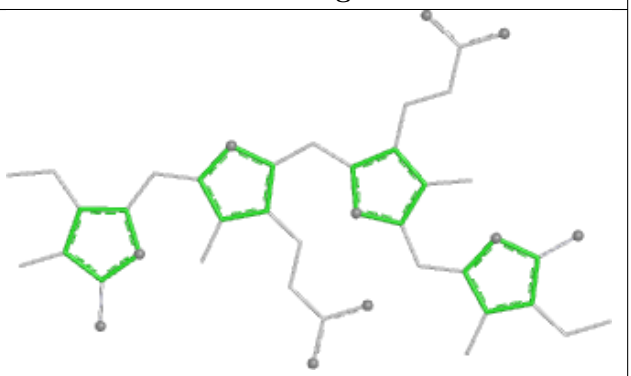
Bond lengths



Bond angles

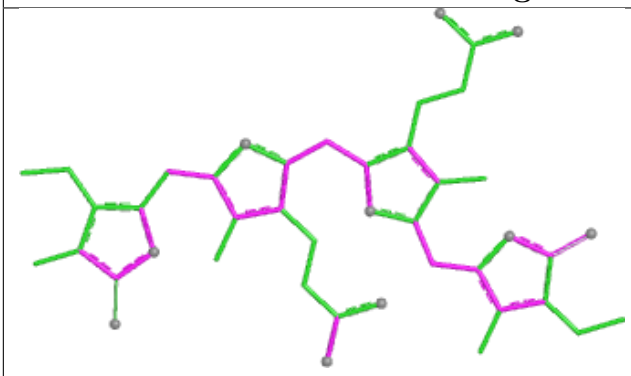


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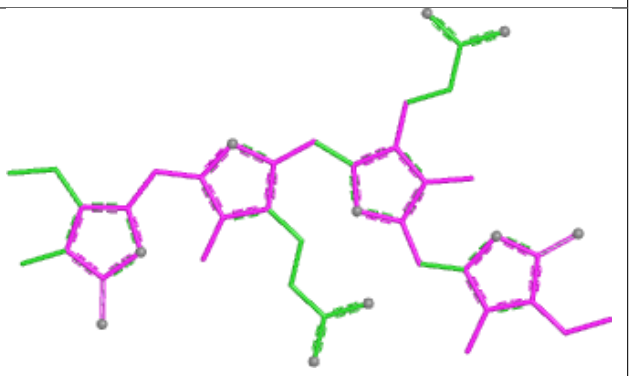


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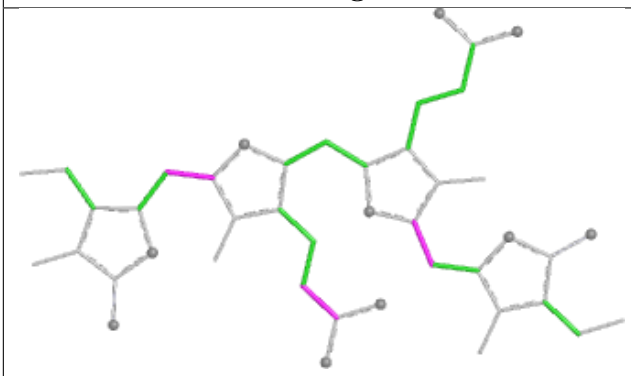
Ligand CYC T9 301



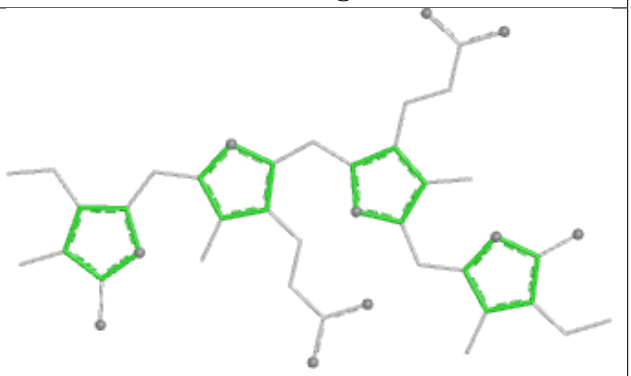
Bond lengths



Bond angles

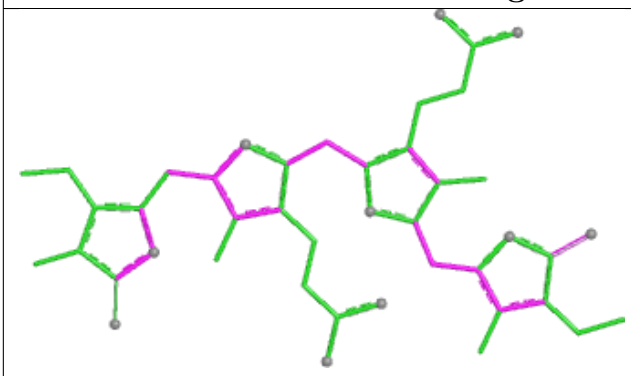


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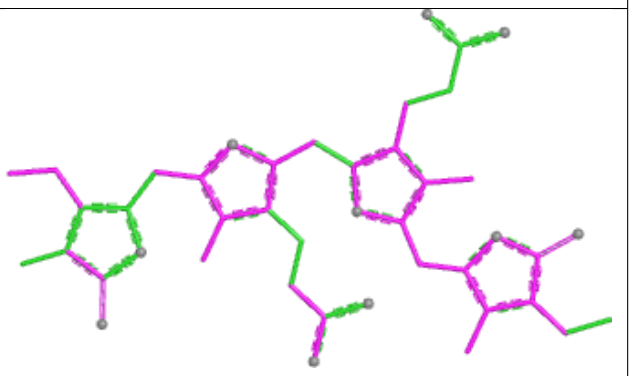


Rings

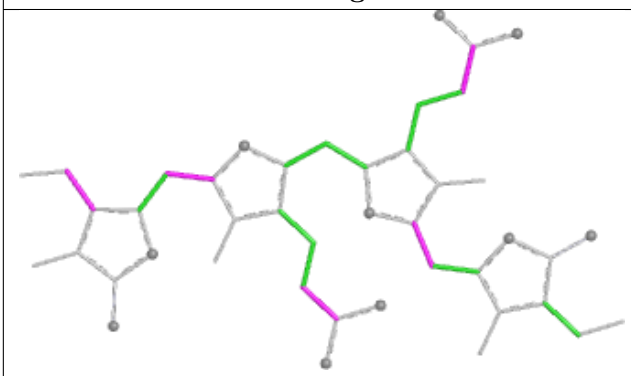
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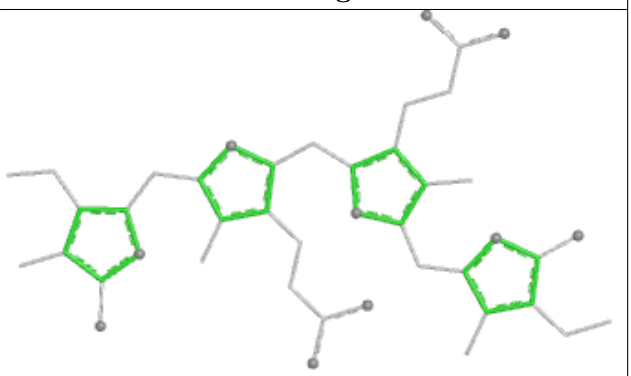
Bond lengths



Bond angles

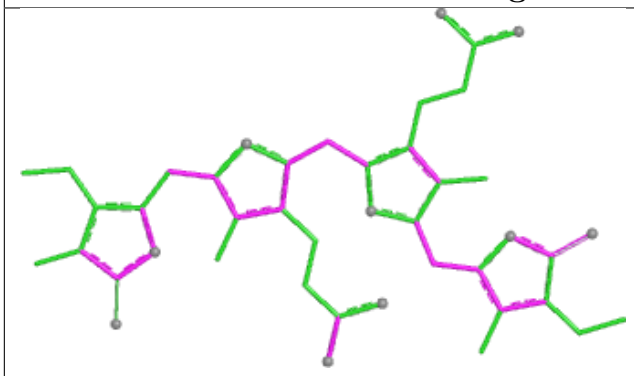


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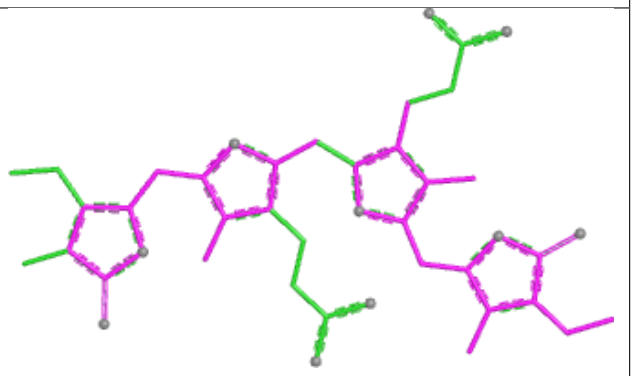


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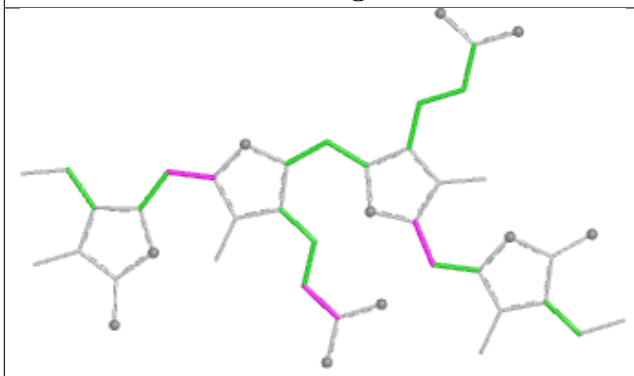
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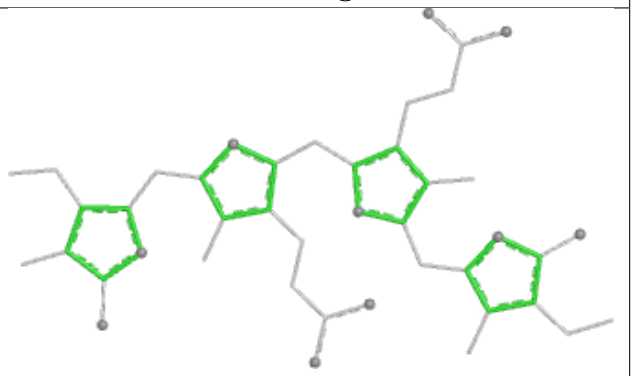
Bond lengths



Bond angles

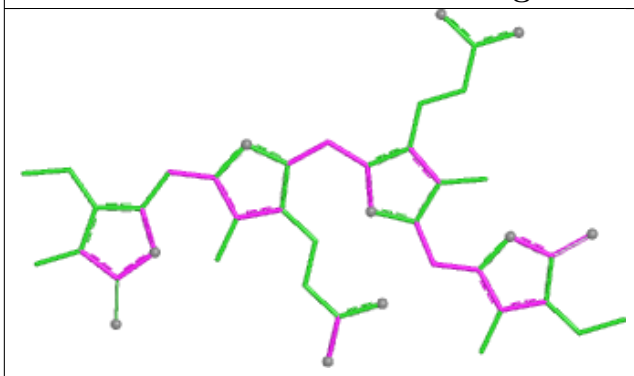


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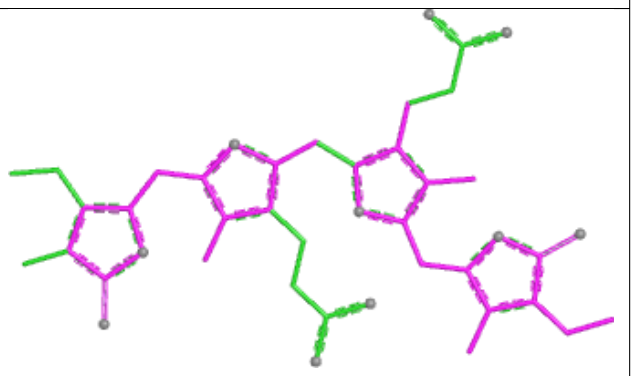


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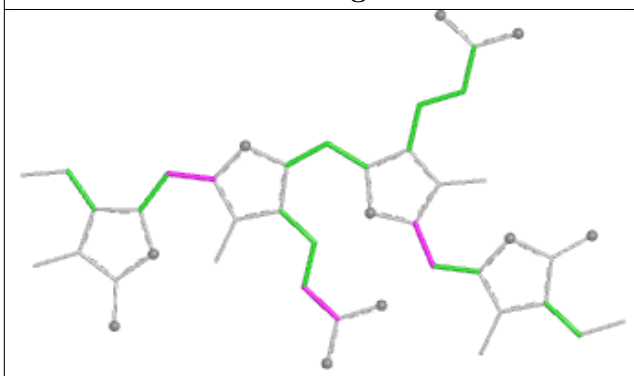
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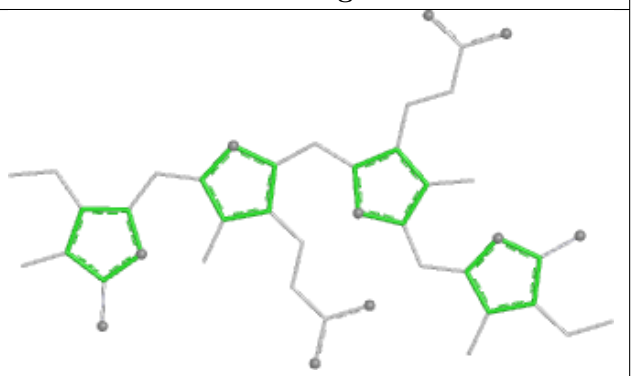
Bond lengths



Bond angles

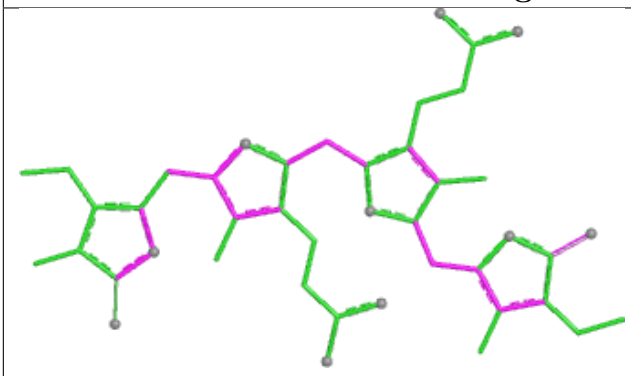


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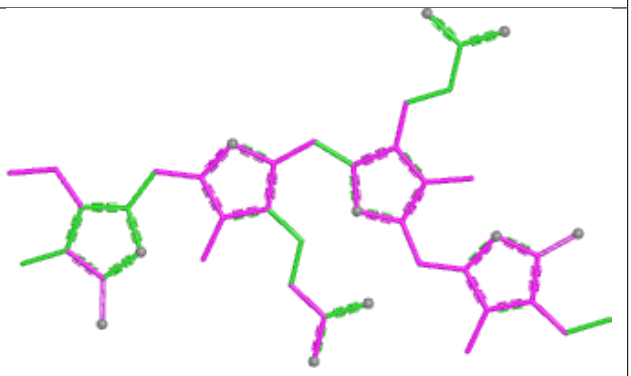


Rings

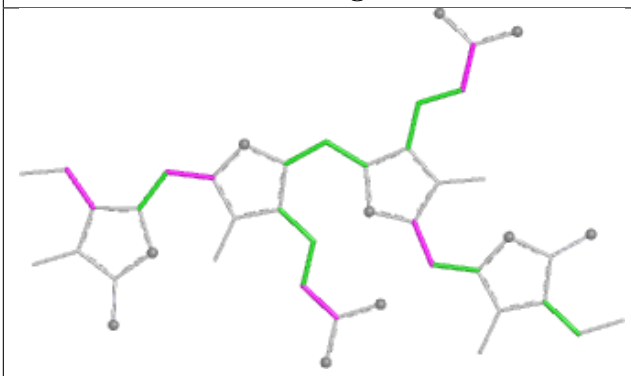
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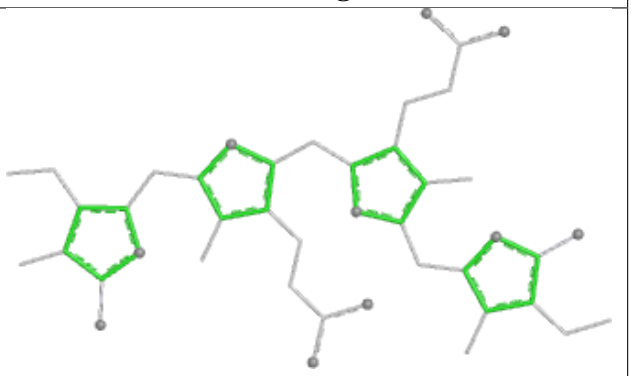
Bond lengths



Bond angles

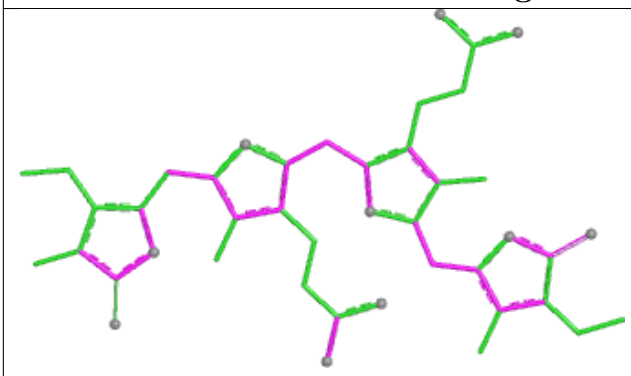


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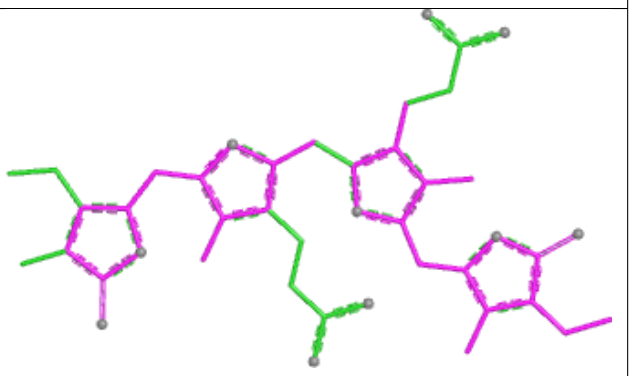


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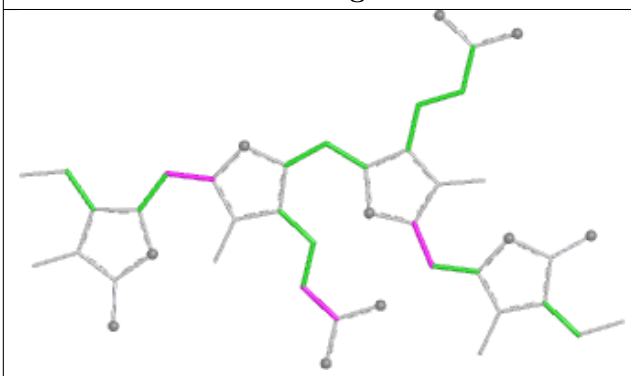
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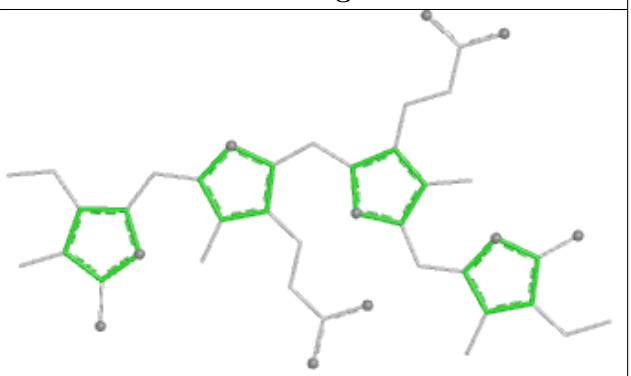
Bond lengths



Bond angles

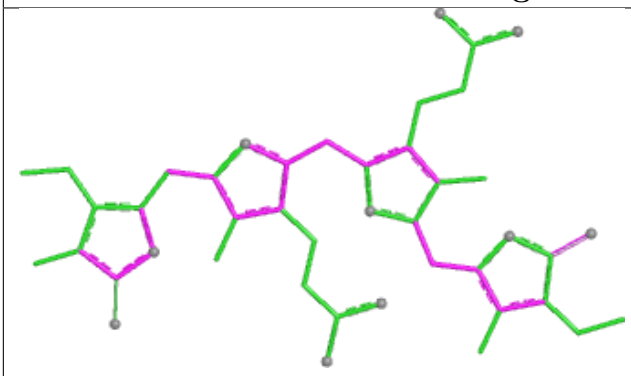


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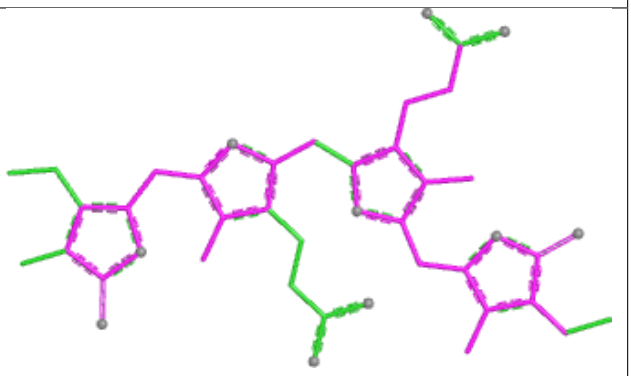


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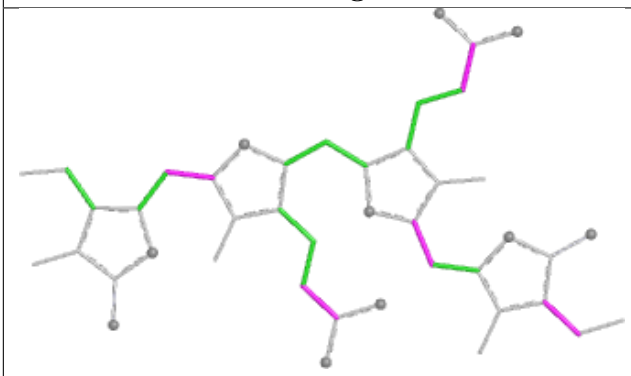
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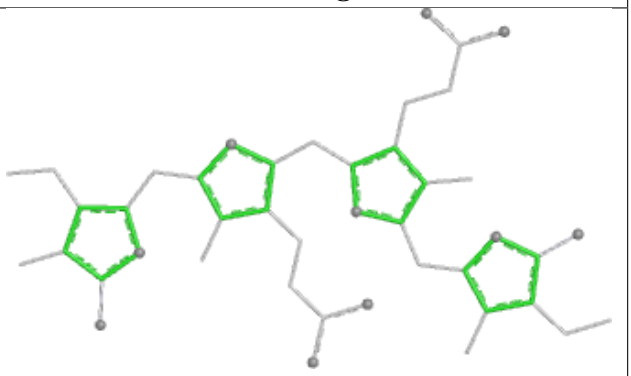
Bond lengths



Bond angles

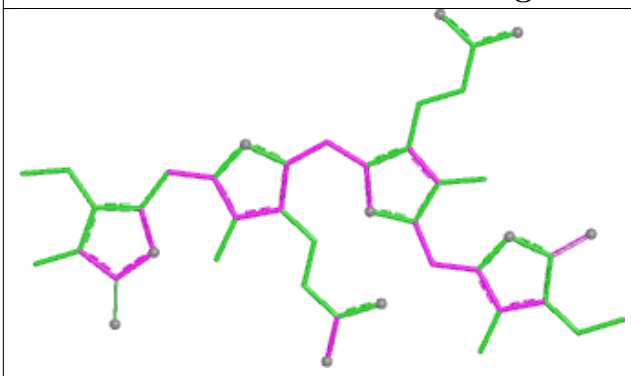


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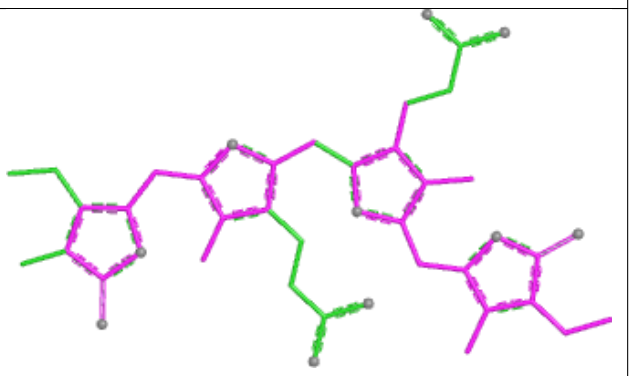


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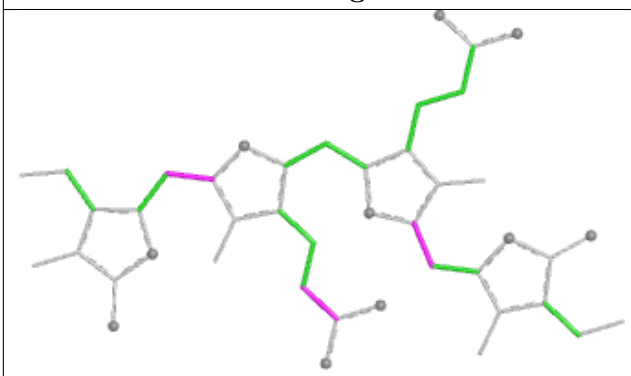
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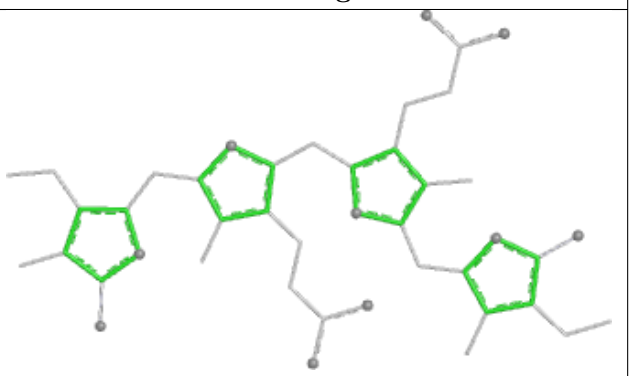
Bond lengths



Bond angles

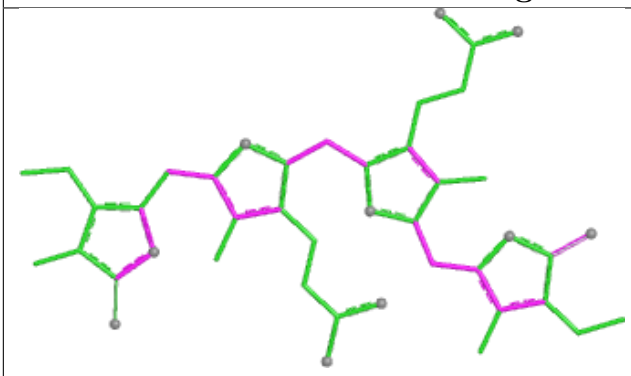


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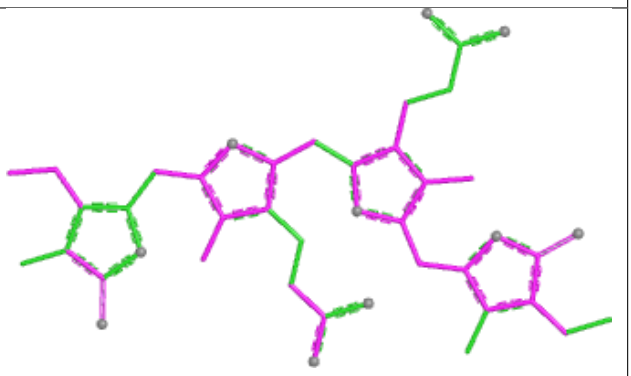


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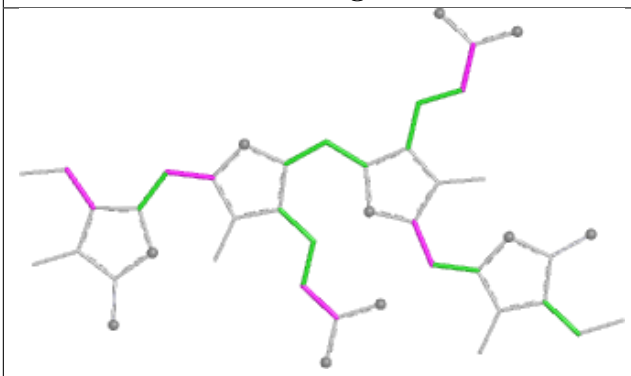
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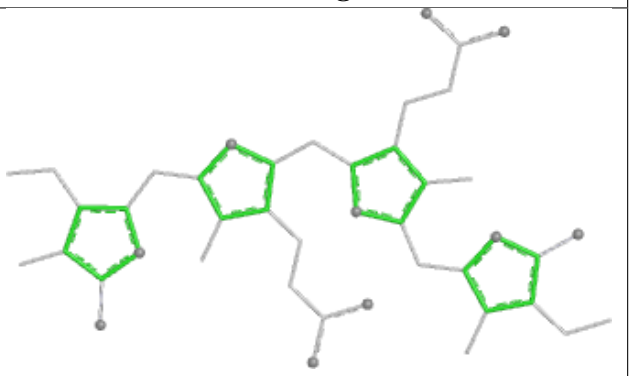
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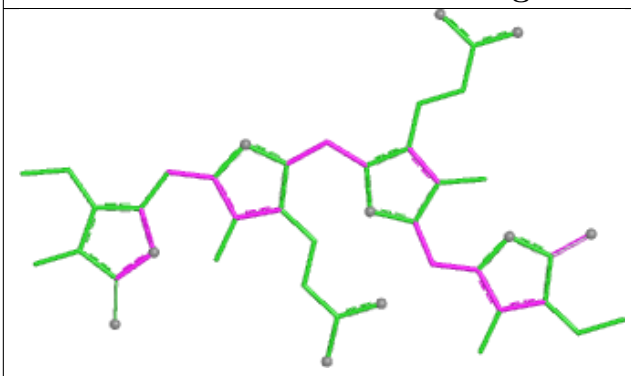


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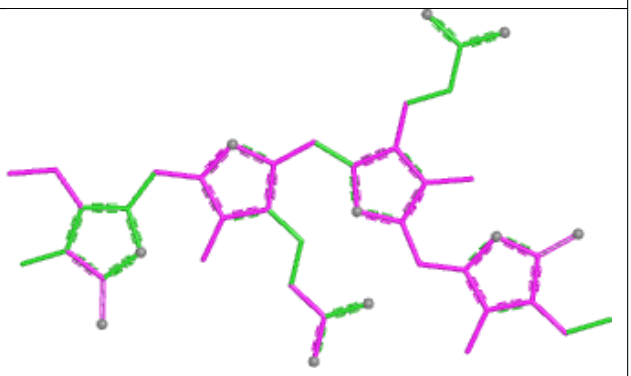


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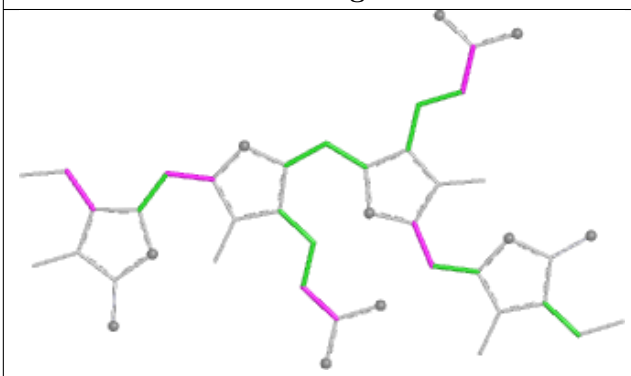
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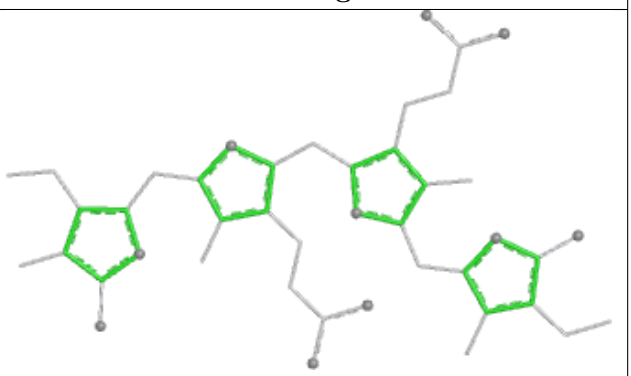
Bond lengths



Bond angles

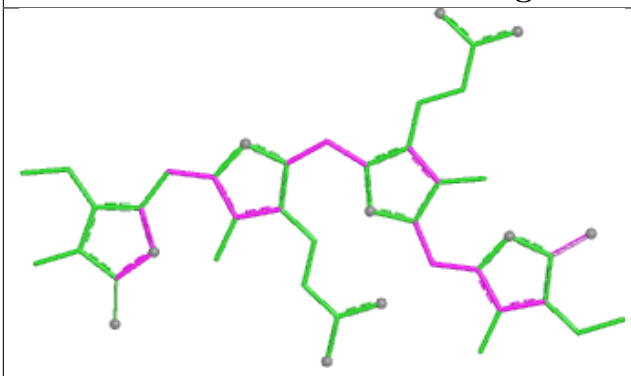


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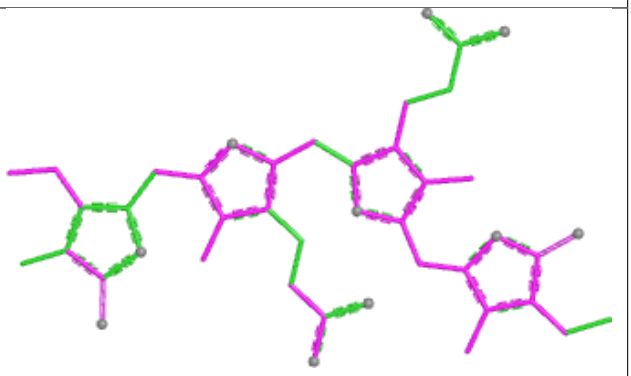


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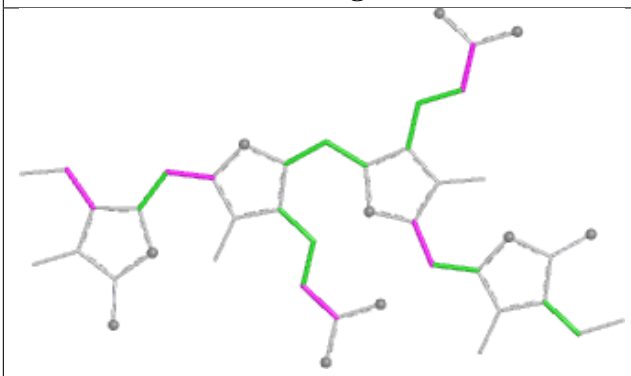
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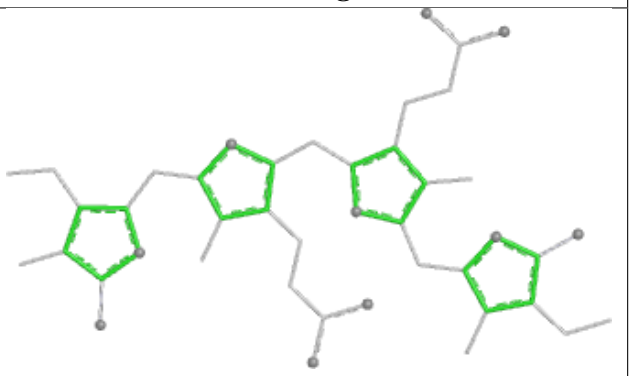
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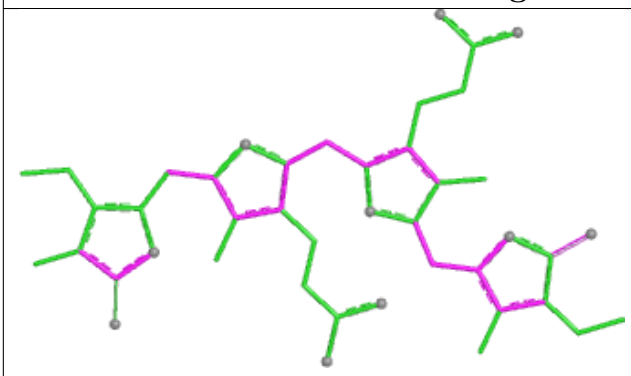


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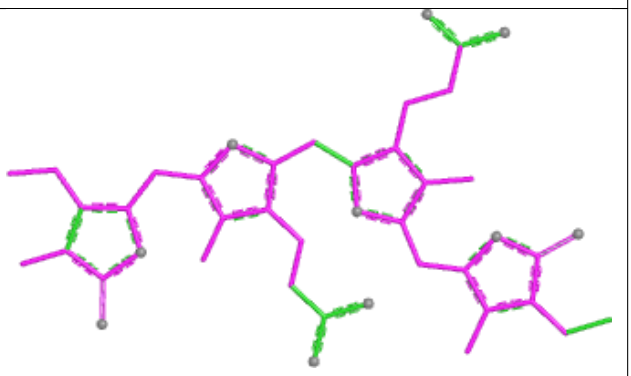


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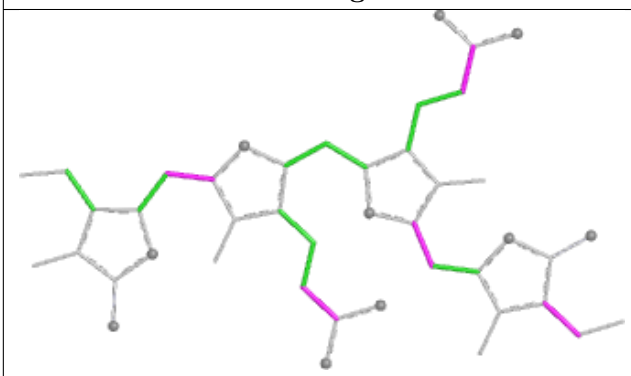
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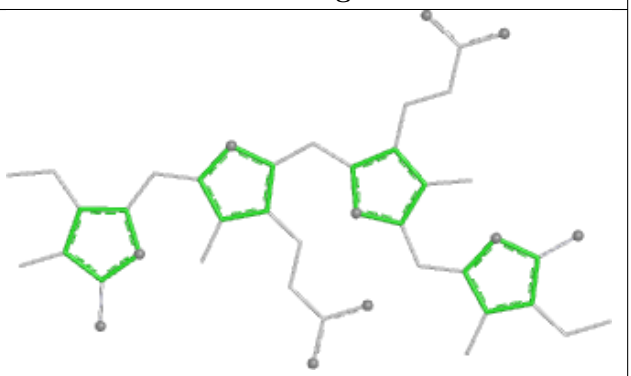
Bond lengths



Bond angles

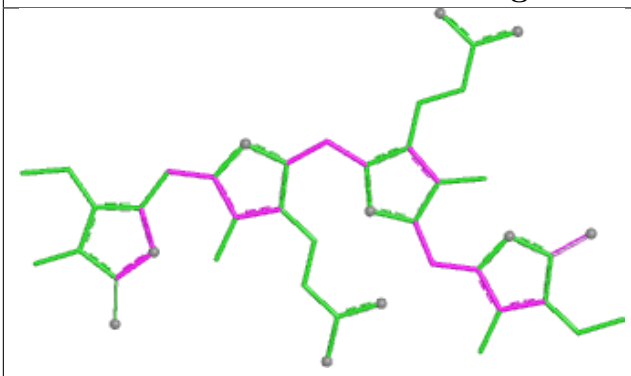


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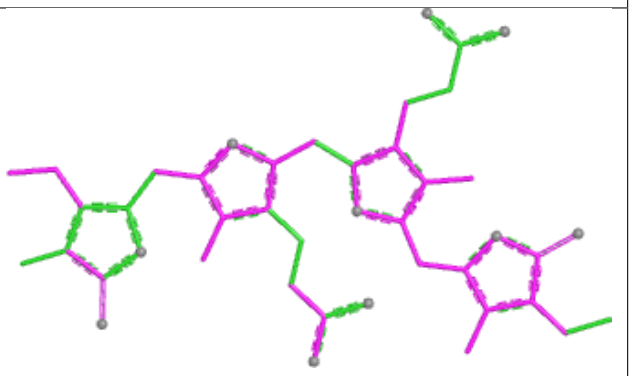


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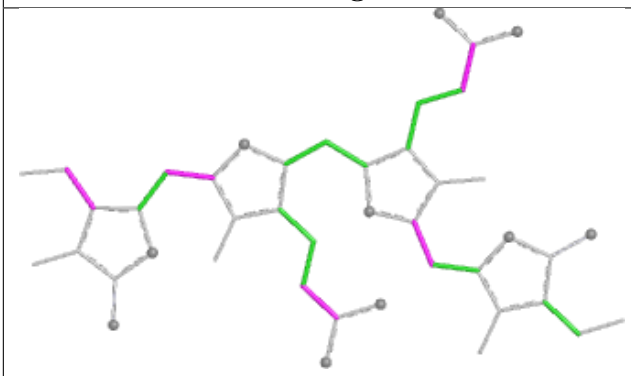
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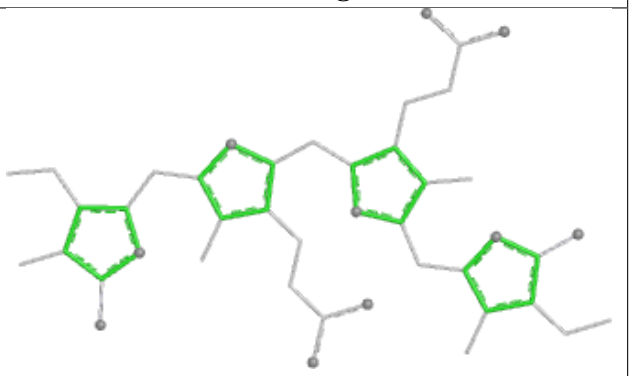
Bond lengths



Bond angles

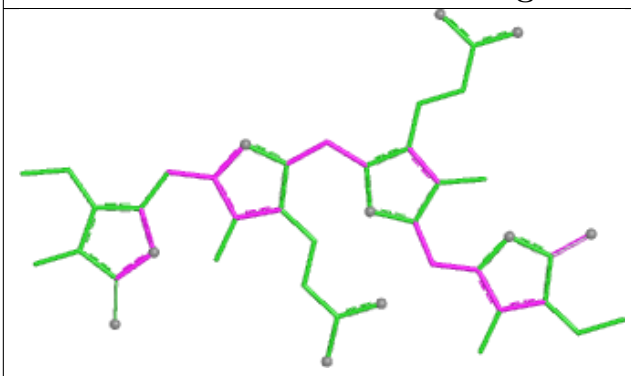


Torsions

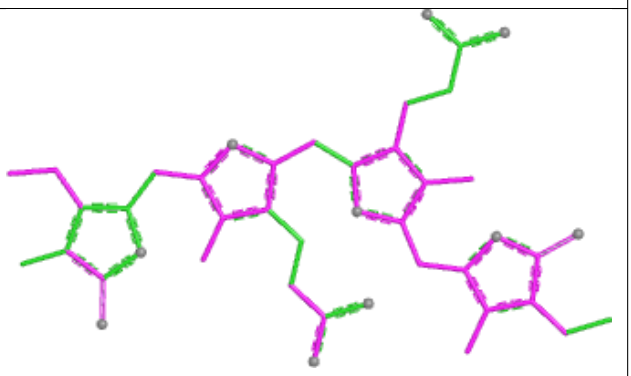


Rings

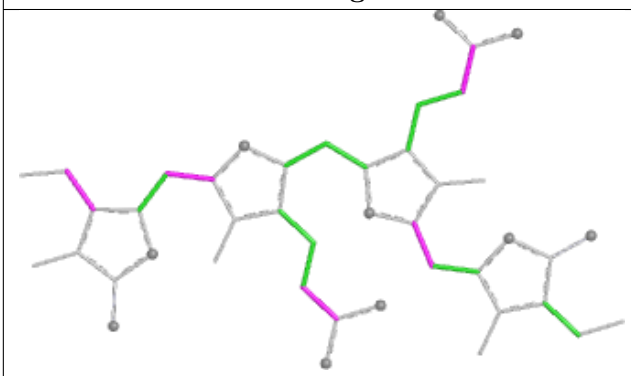
Ligand CYC J9 201



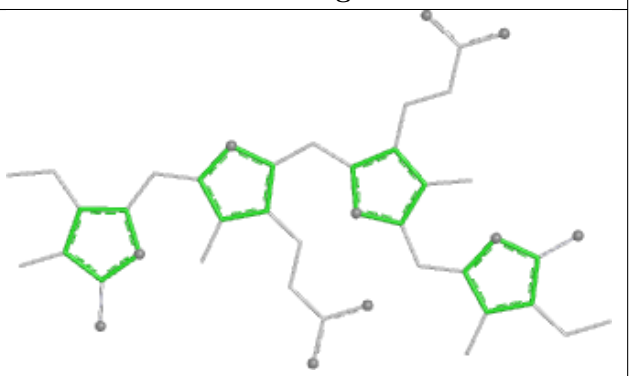
Bond lengths



Bond angles

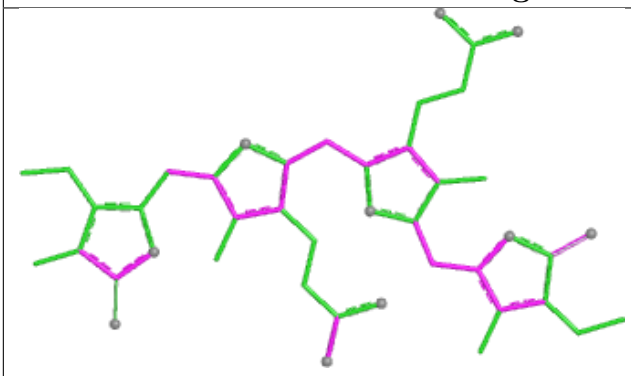


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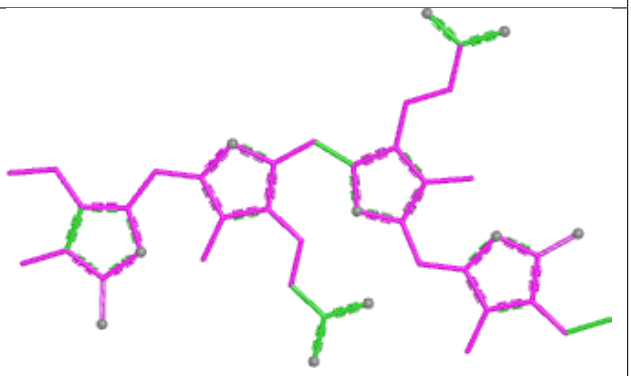


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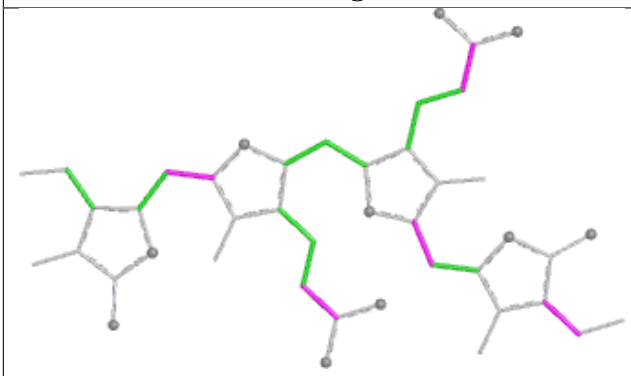
Ligand CYC U9 201



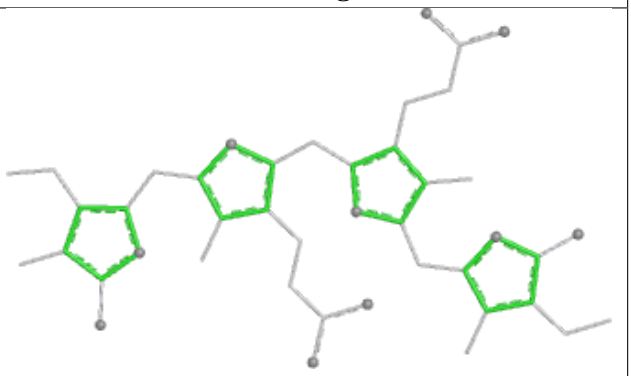
Bond lengths



Bond angles

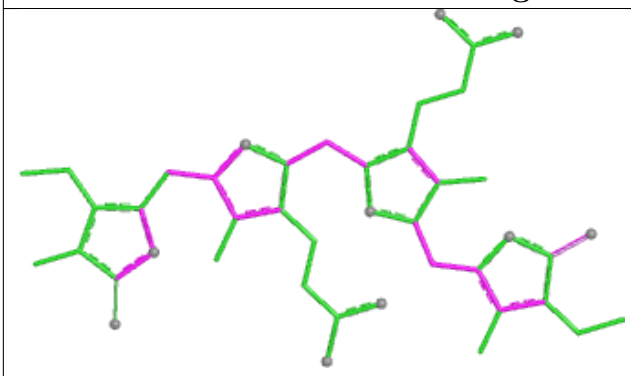


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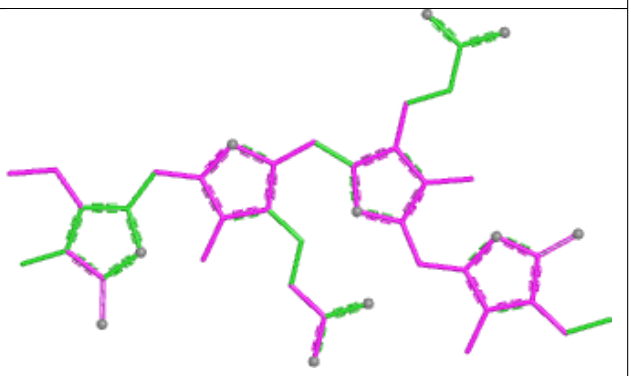


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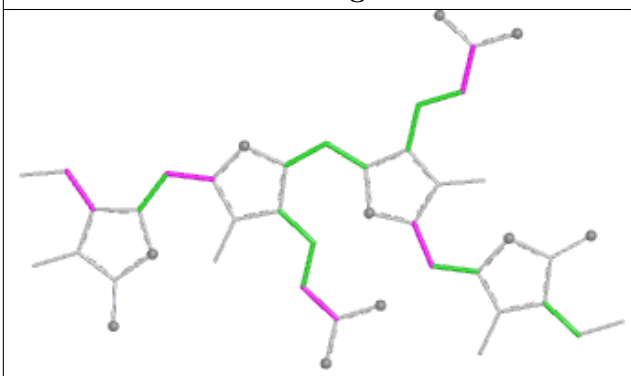
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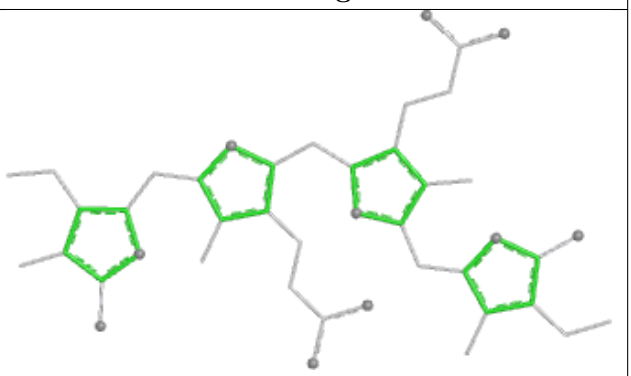
Bond lengths



Bond angles

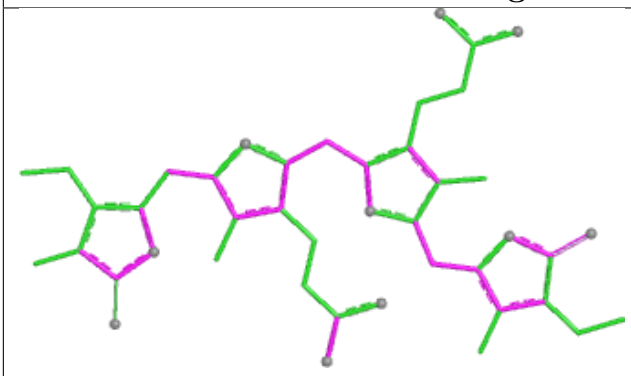


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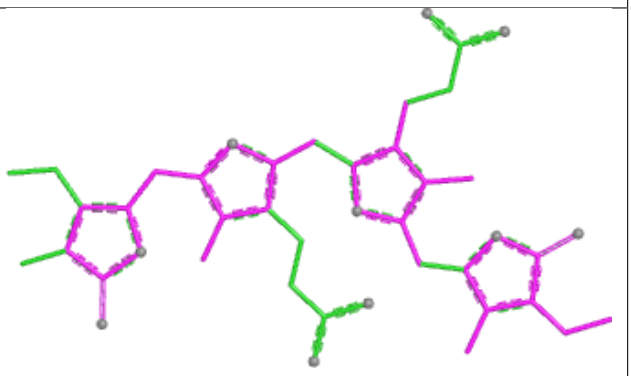


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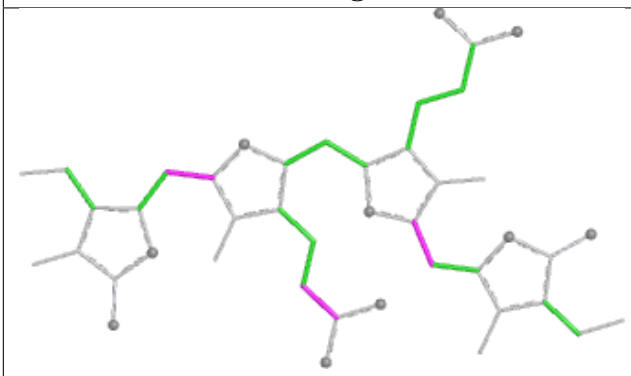
Ligand CYC RA 201



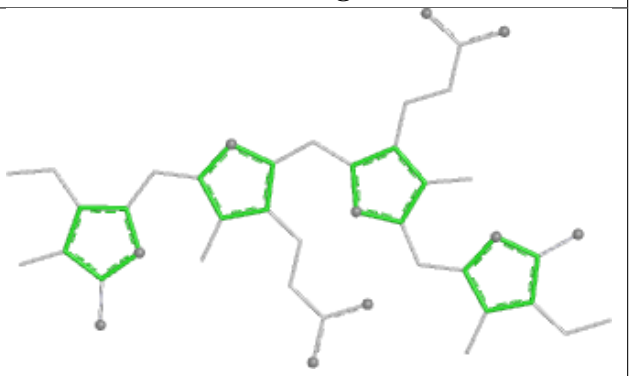
Bond lengths



Bond angles

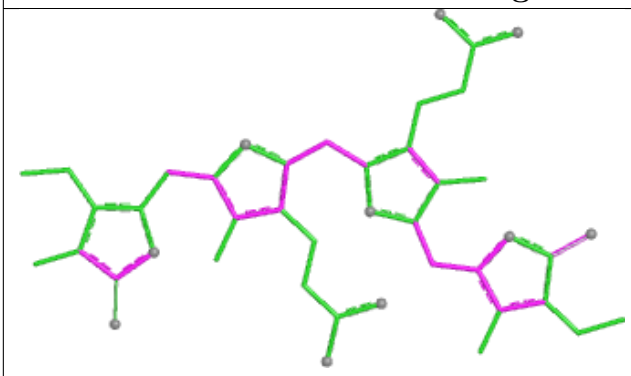


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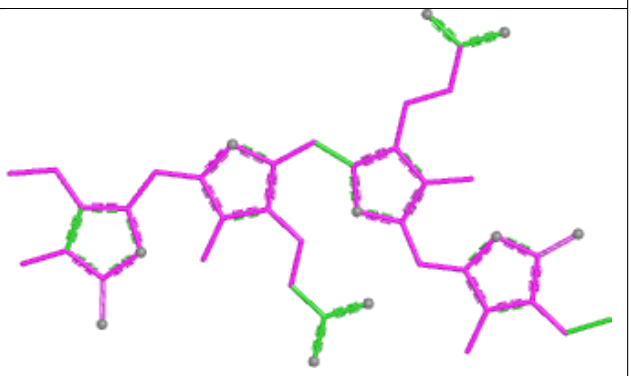


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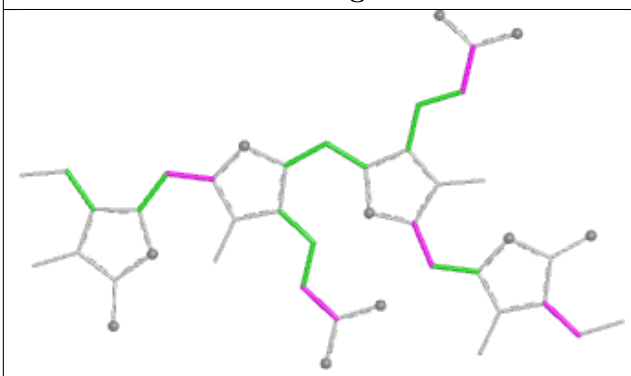
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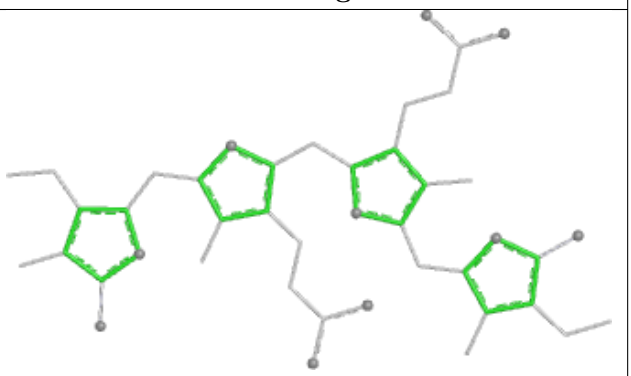
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Bond angles

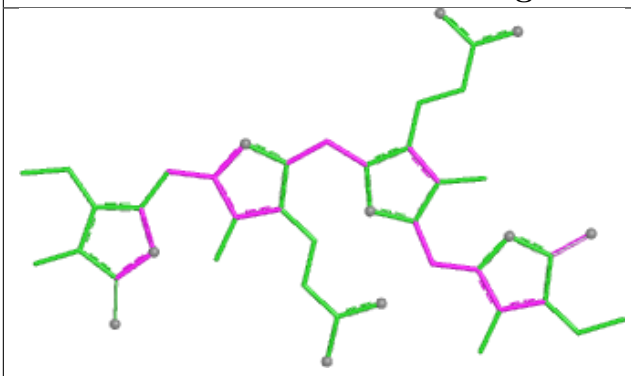


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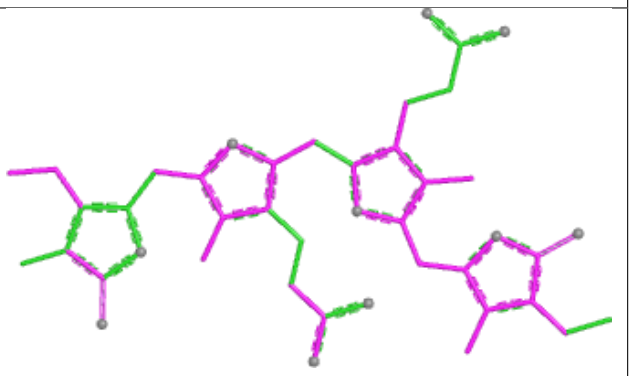


Rings

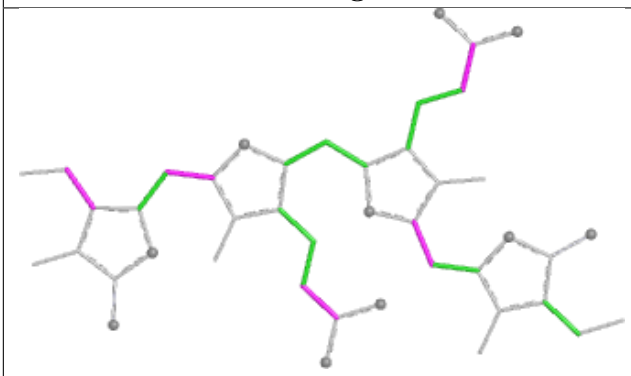
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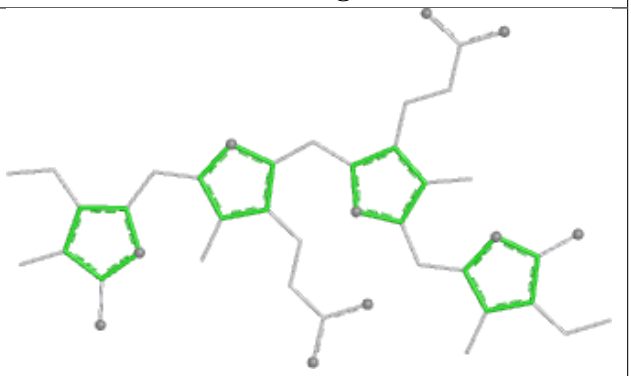
Bond lengths



Bond angles

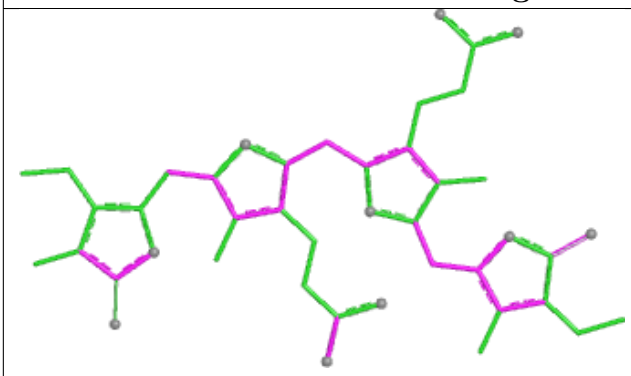


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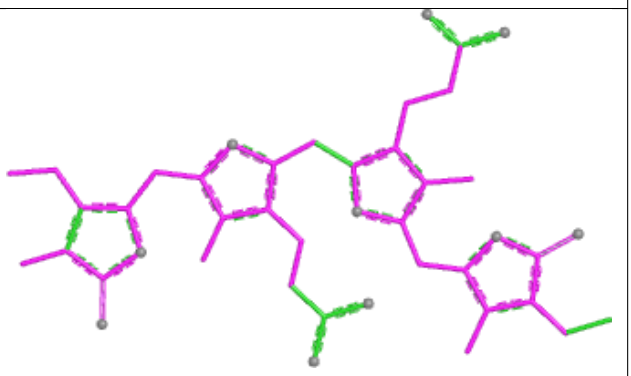


Rings

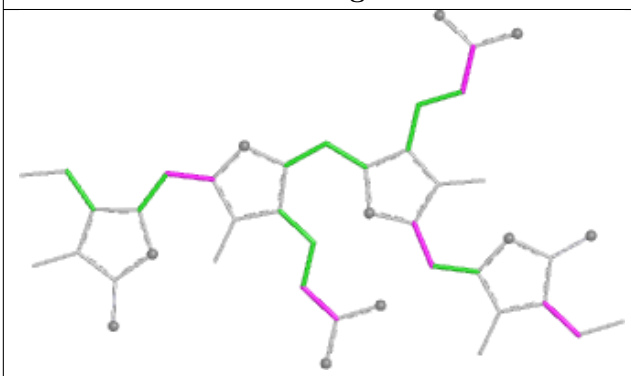
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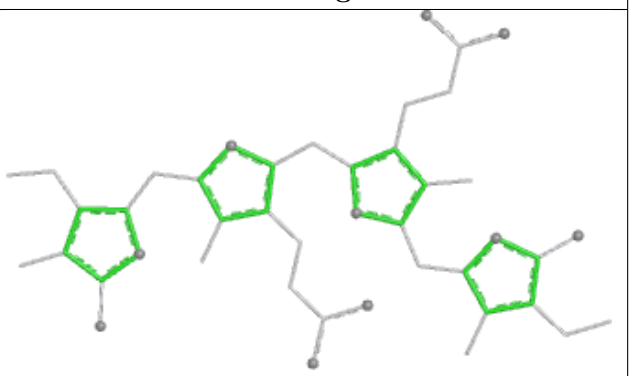
Bond lengths



Bond angles

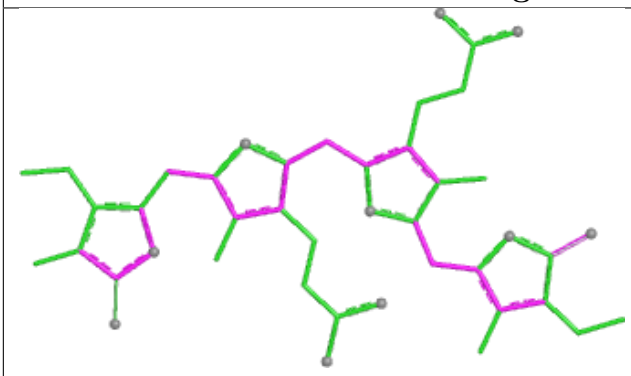


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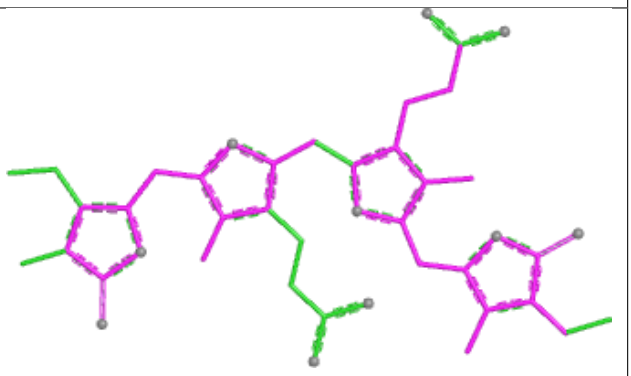


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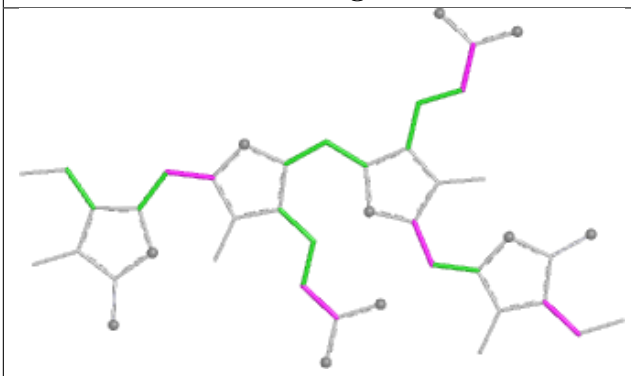
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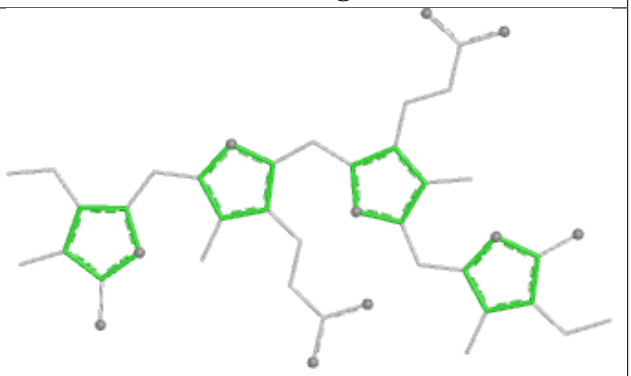
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Bond angles

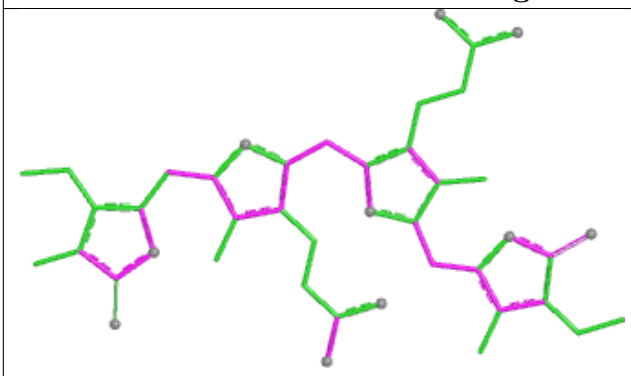


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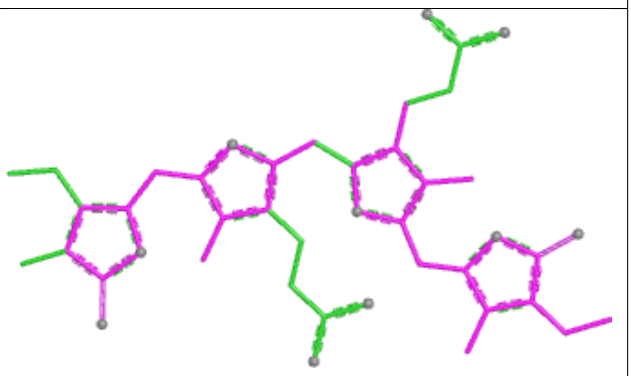


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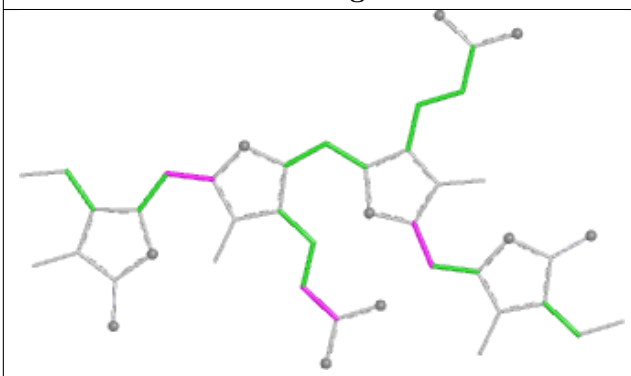
Ligand CYC aA 902



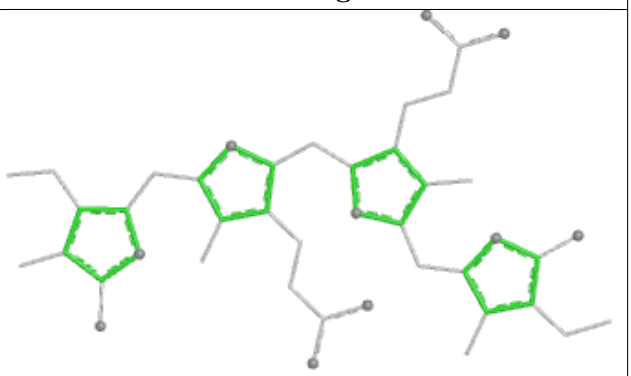
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Bond angles

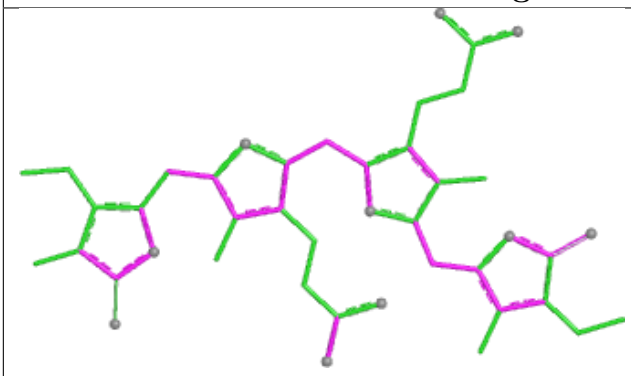


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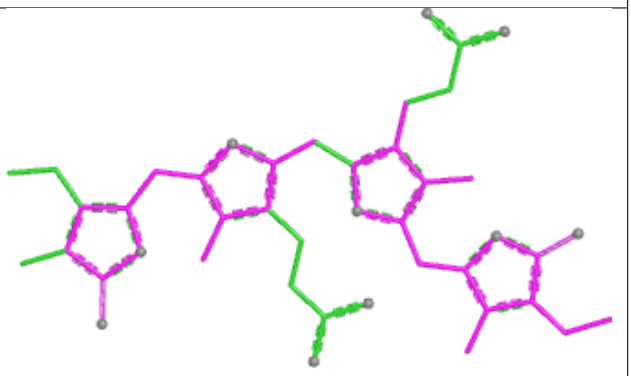


Rings

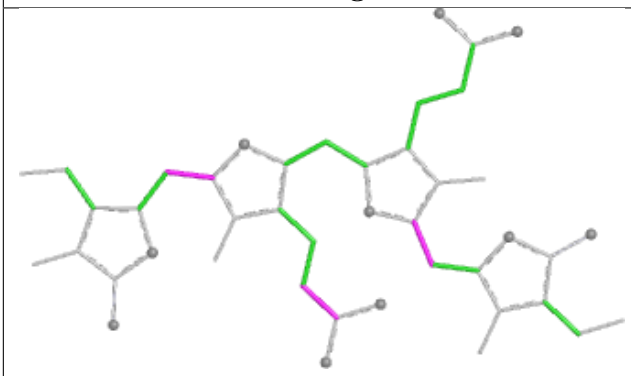
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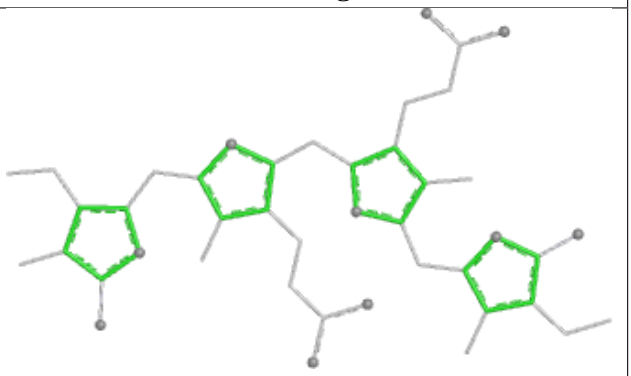
Bond lengths



Bond angles

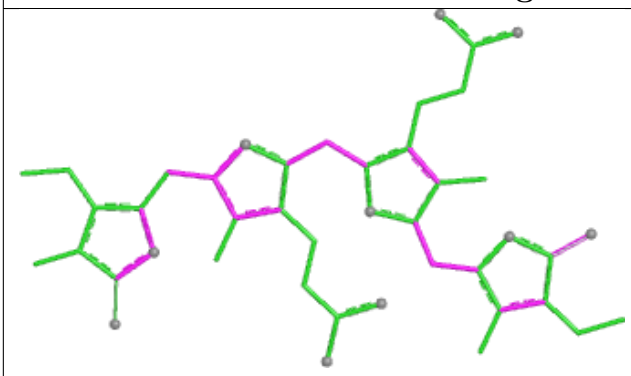


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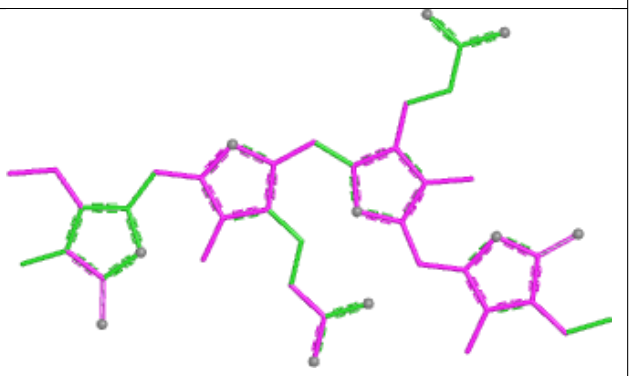


Rings

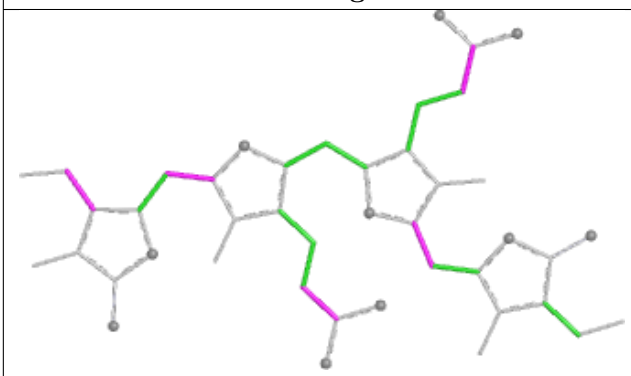
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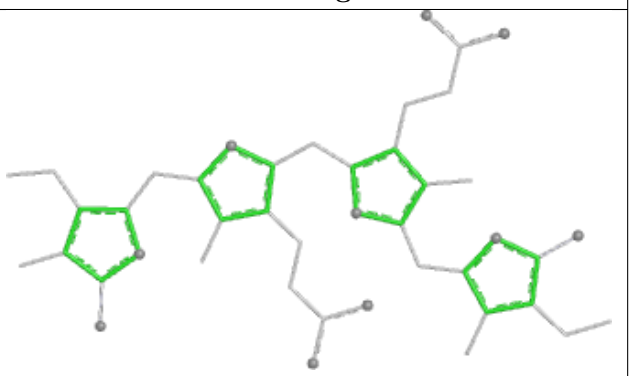
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Bond angles

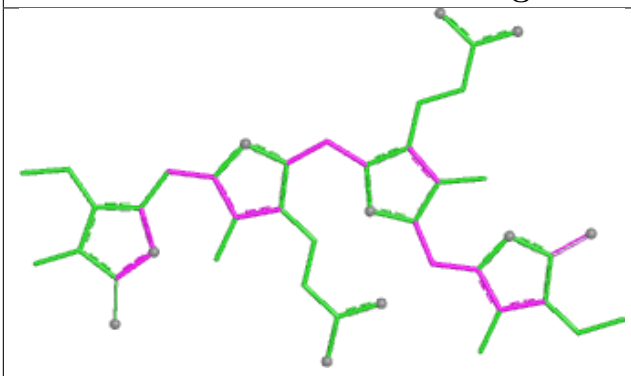


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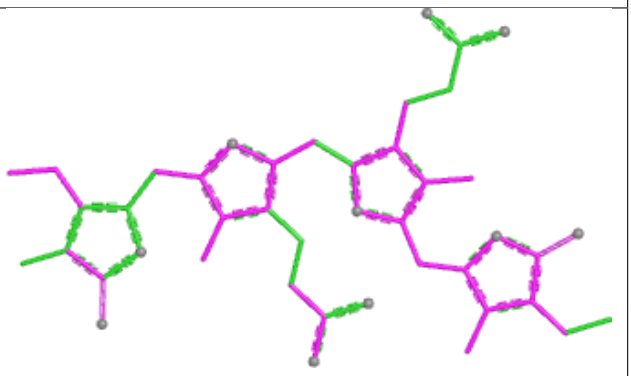


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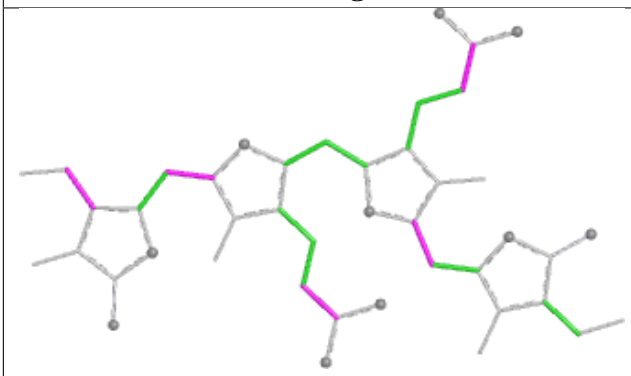
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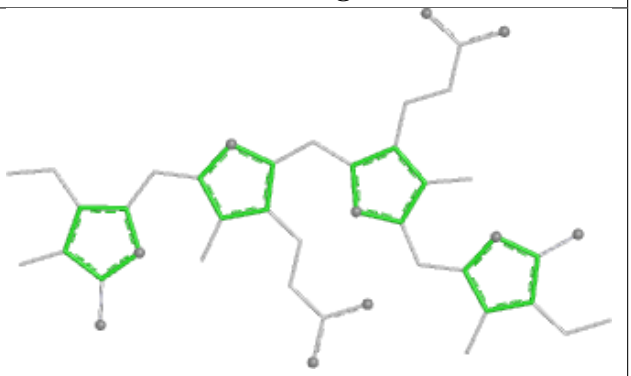
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Bond angles

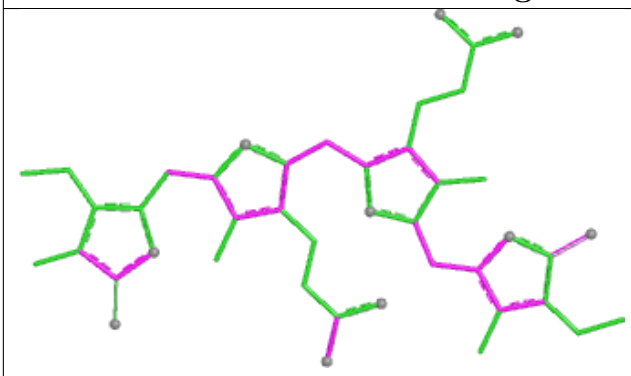


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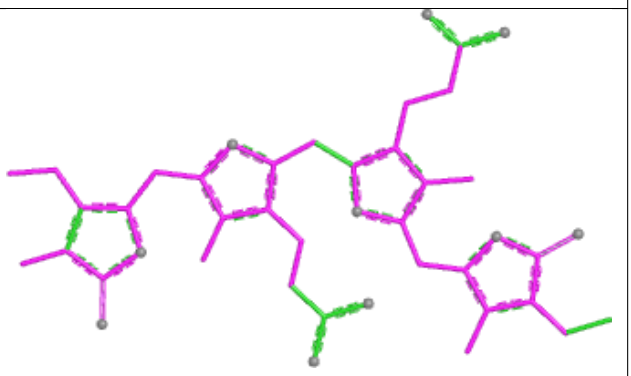


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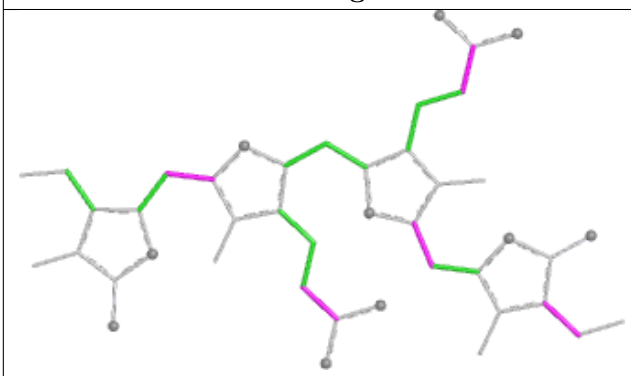
Ligand CYC E9 201



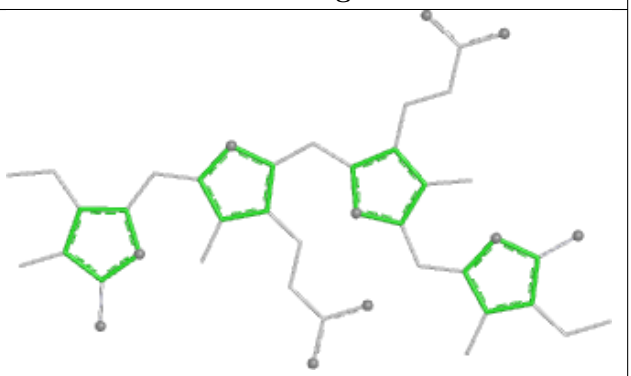
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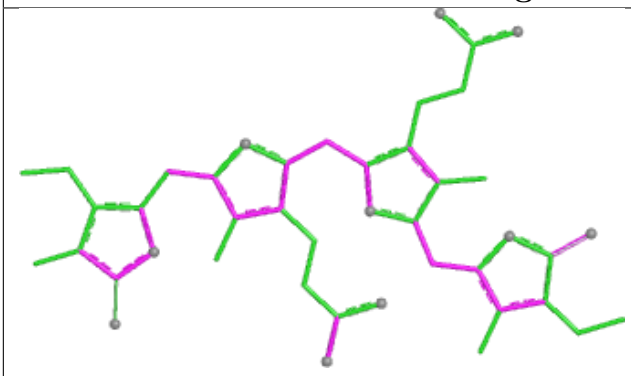


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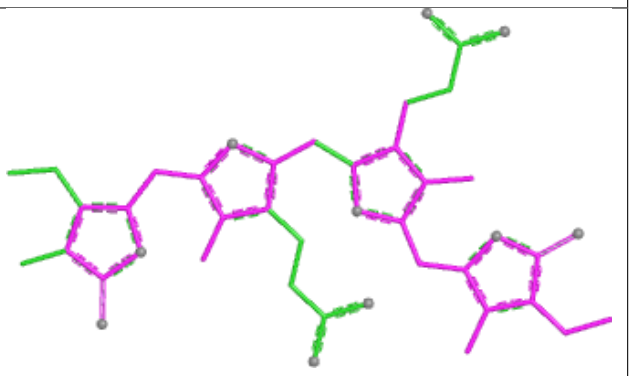


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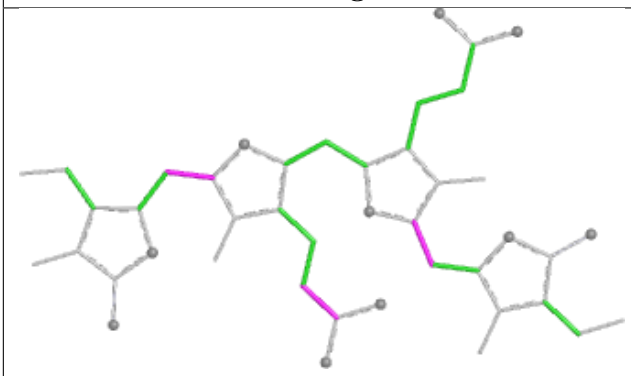
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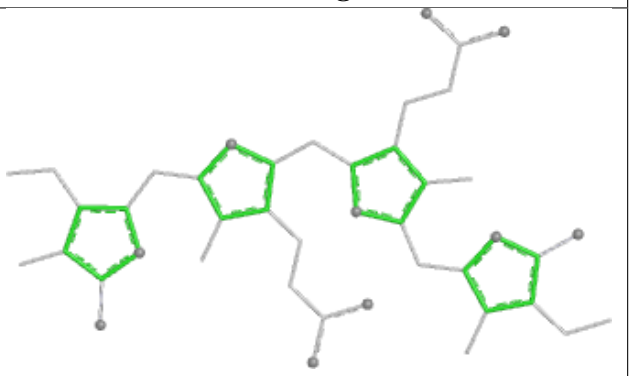
Bond lengths



Bond angles

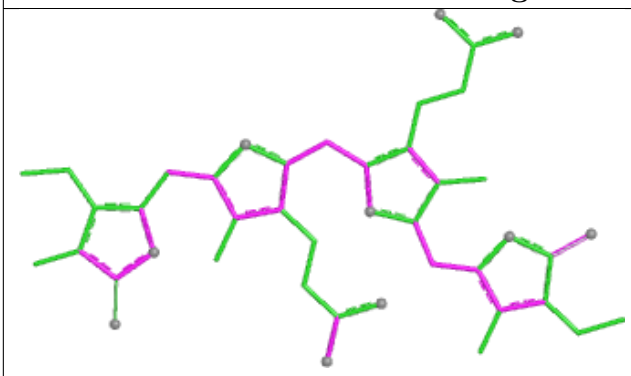


Torsions

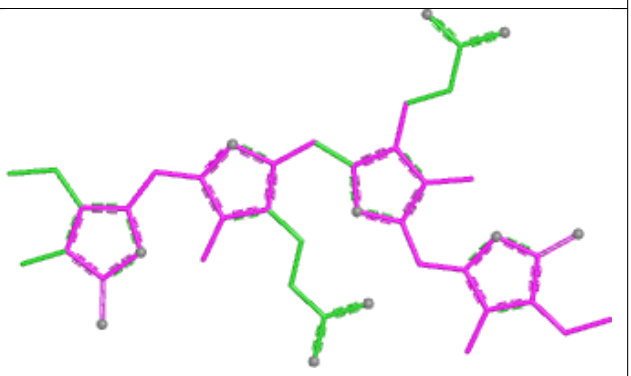


Rings

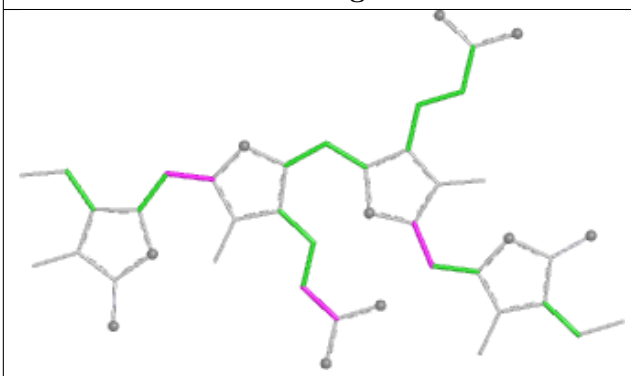
Ligand CYC PA 201



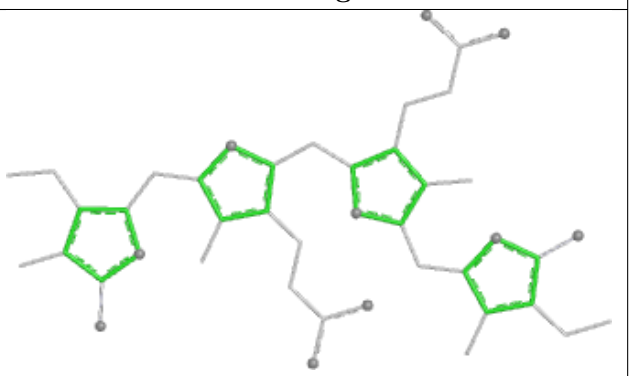
Bond lengths



Bond angles

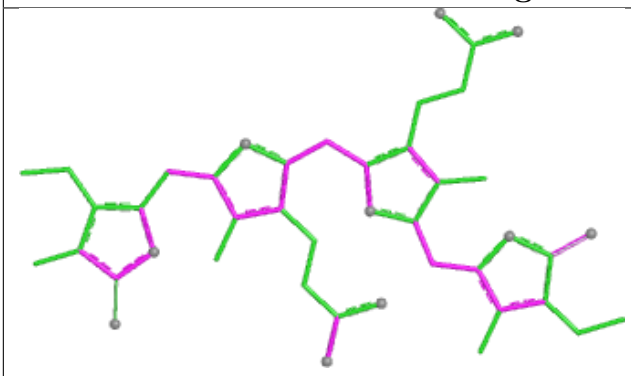


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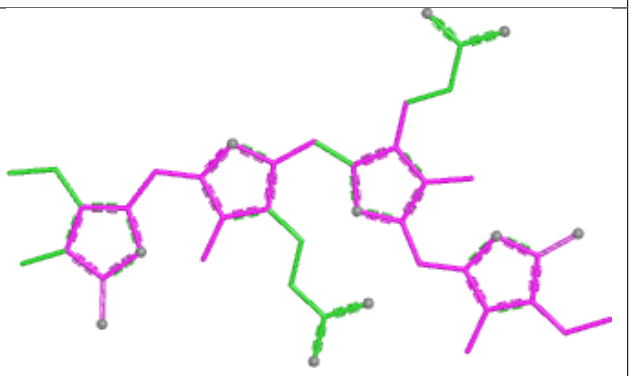


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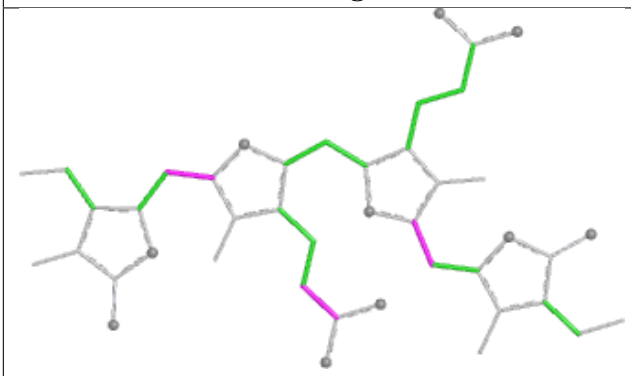
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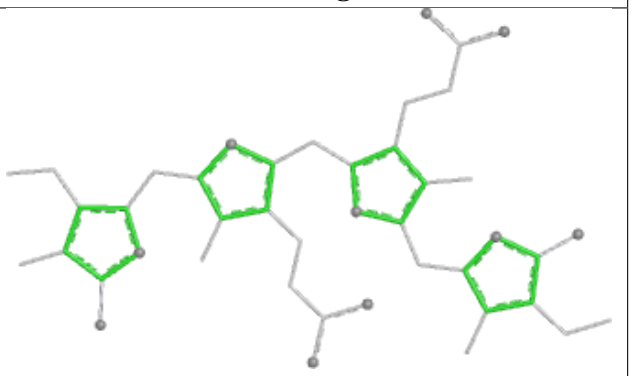
Bond lengths



Bond angles

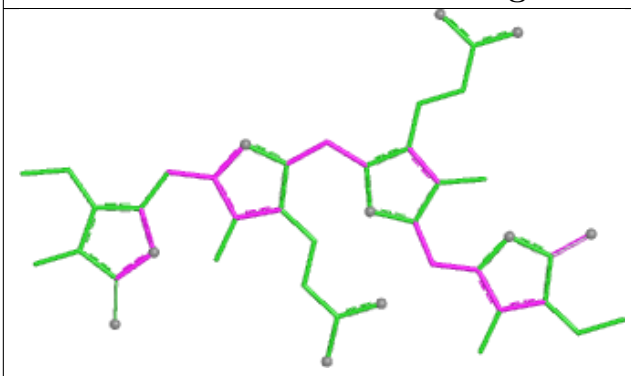


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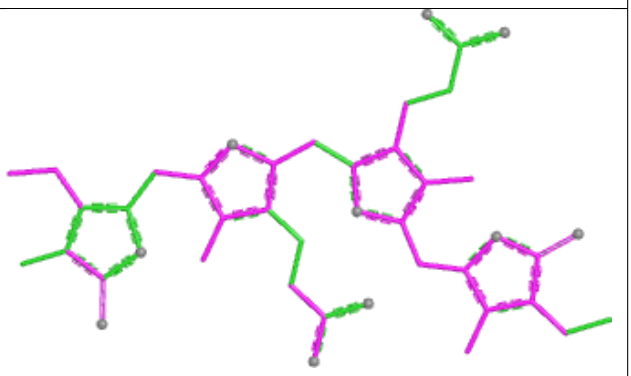


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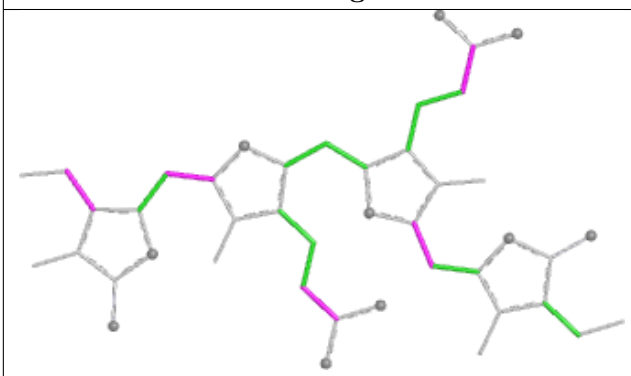
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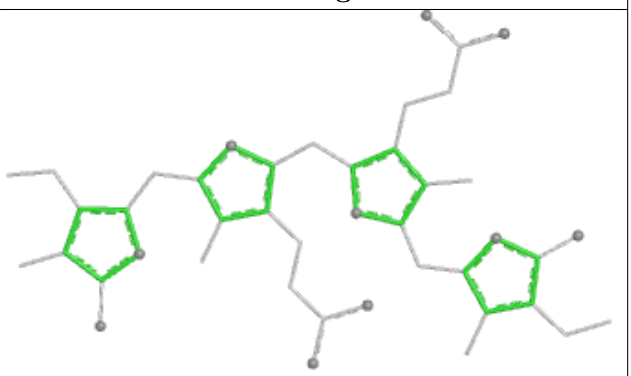
Bond lengths



Bond angles

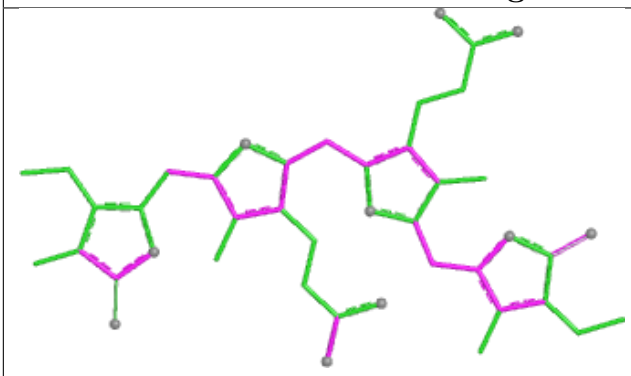


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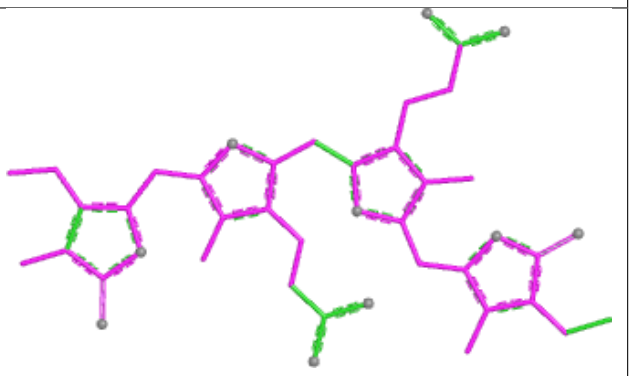


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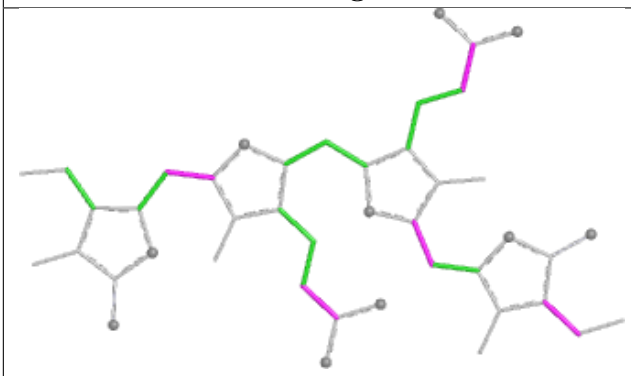
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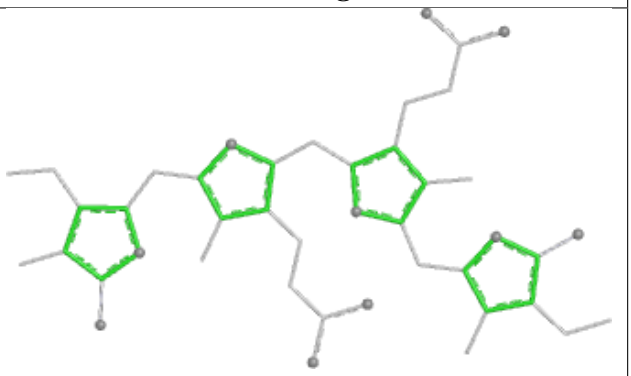
Bond lengths



Bond angles

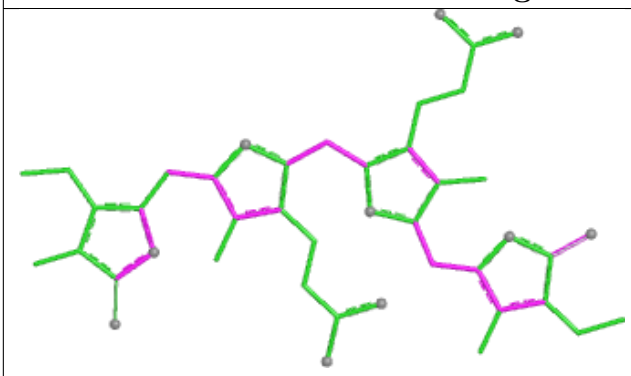


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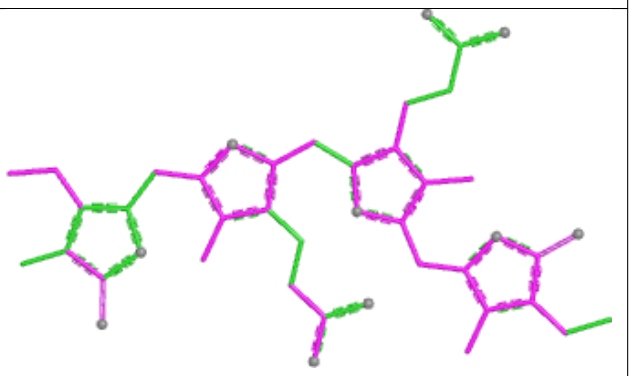


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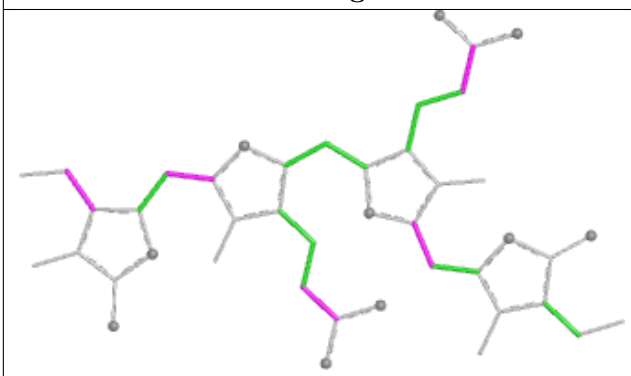
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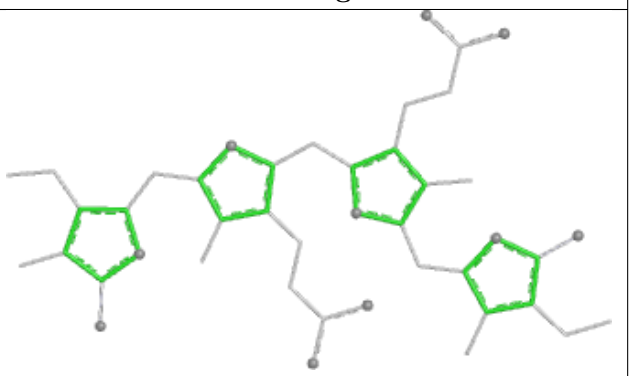
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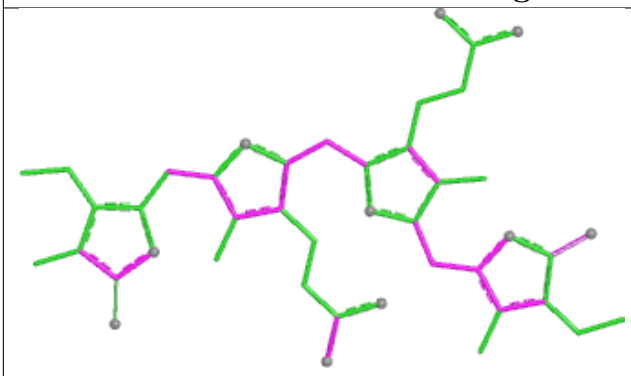


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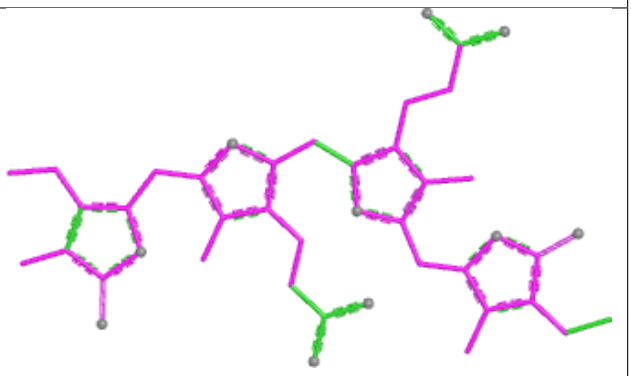


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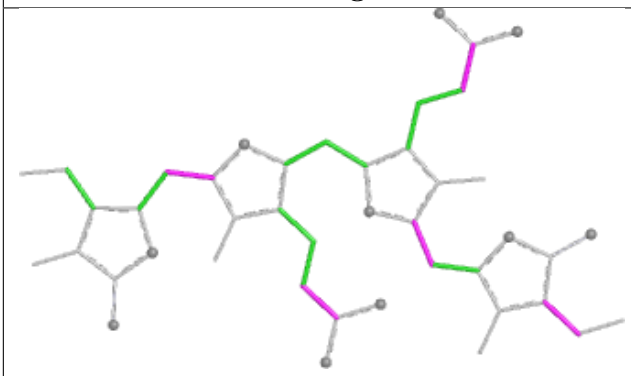
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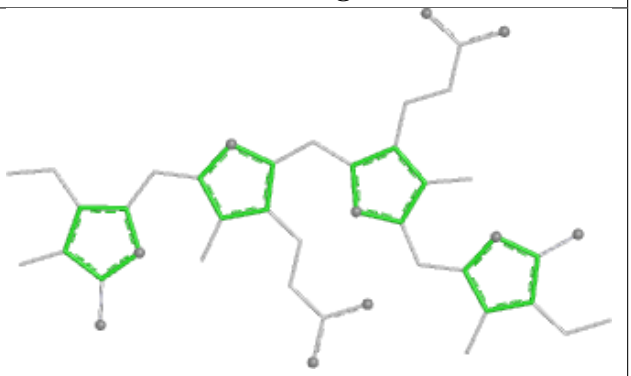
Bond lengths



Bond angles

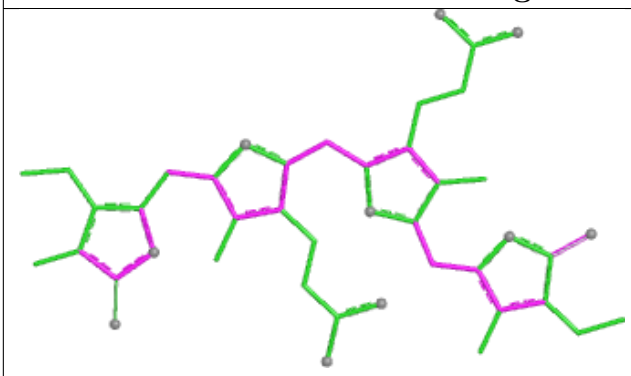


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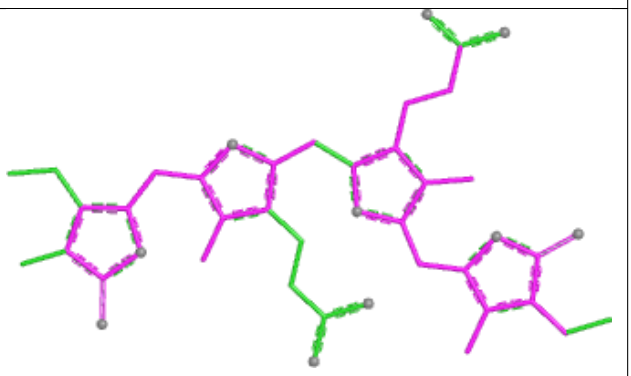


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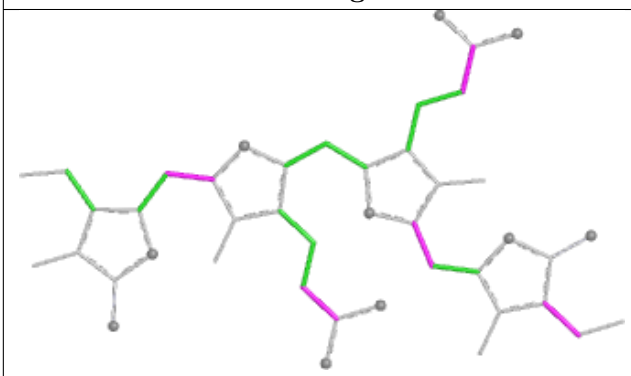
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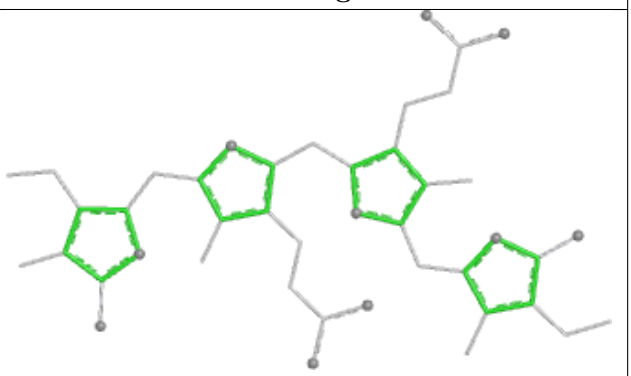
Bond lengths



Bond angles

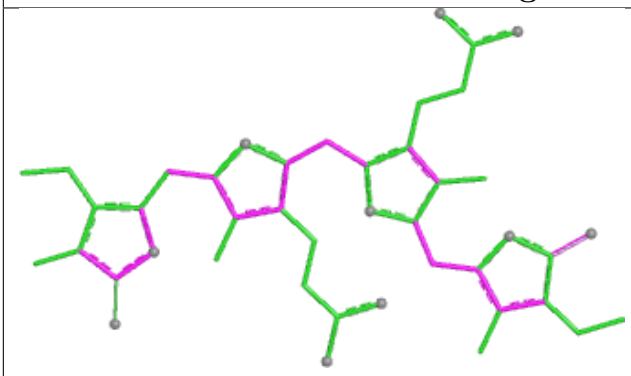


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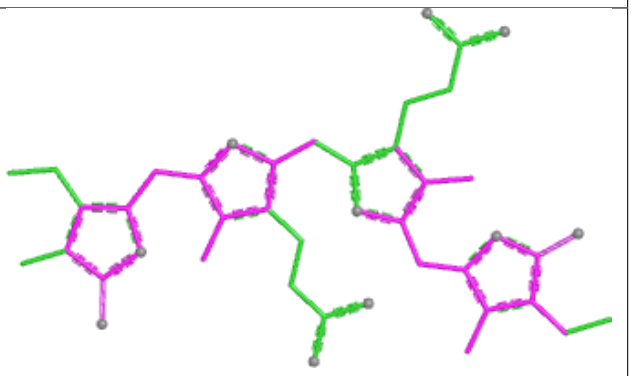


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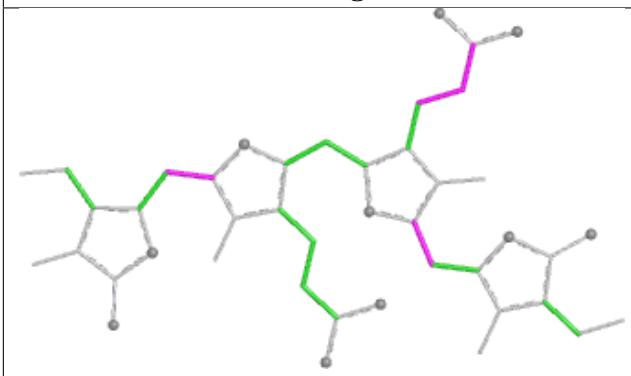
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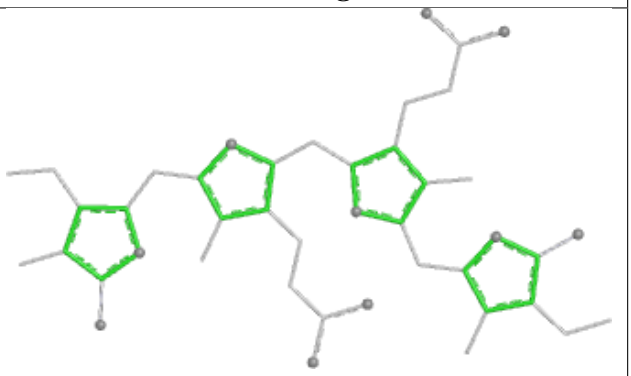
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Bond angles

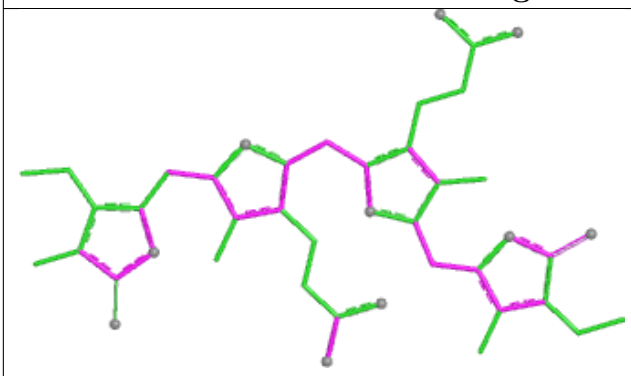


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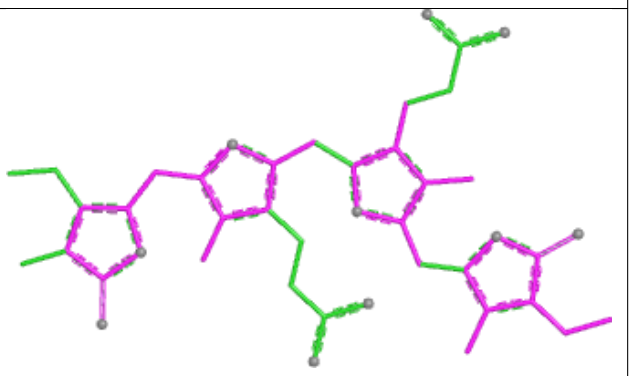


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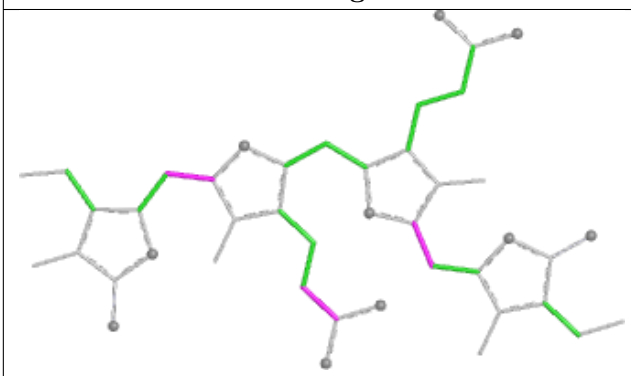
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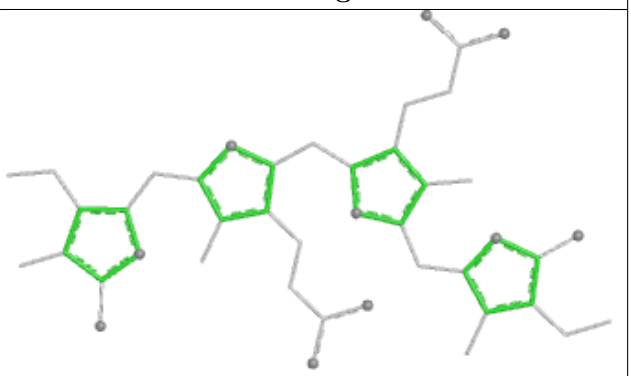
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Bond angles

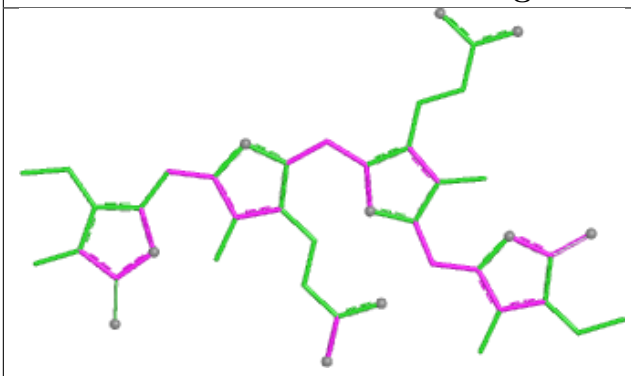


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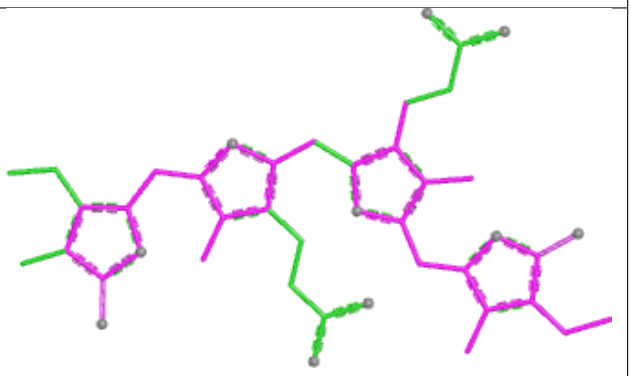


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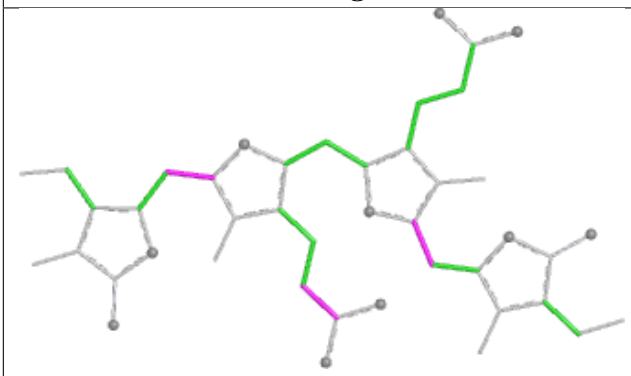
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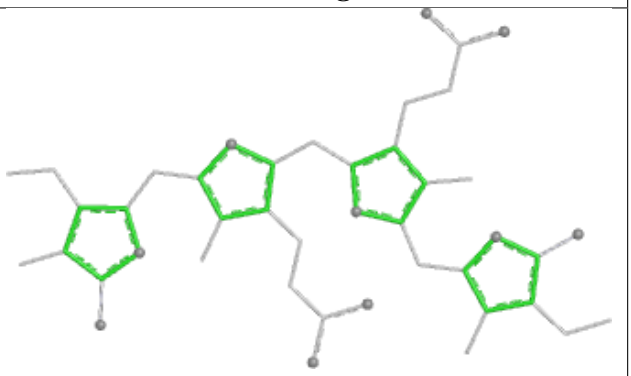
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Bond angles

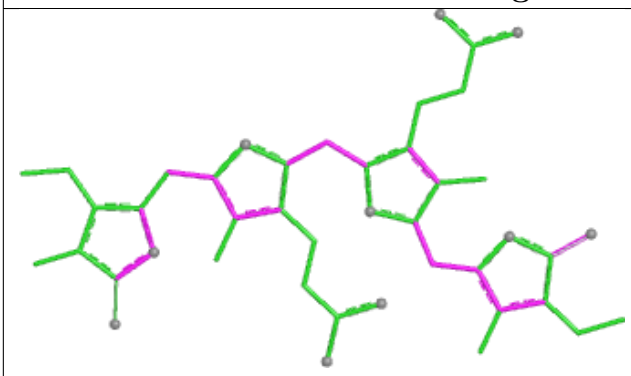


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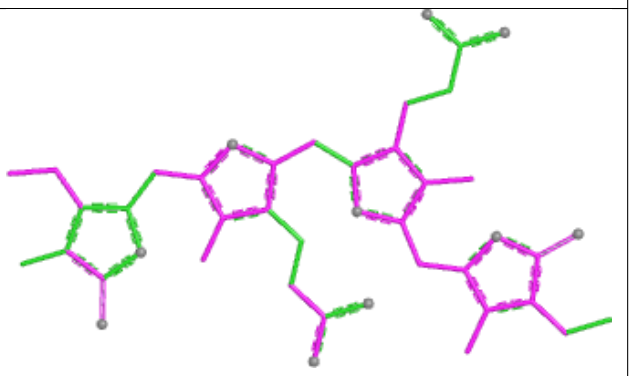


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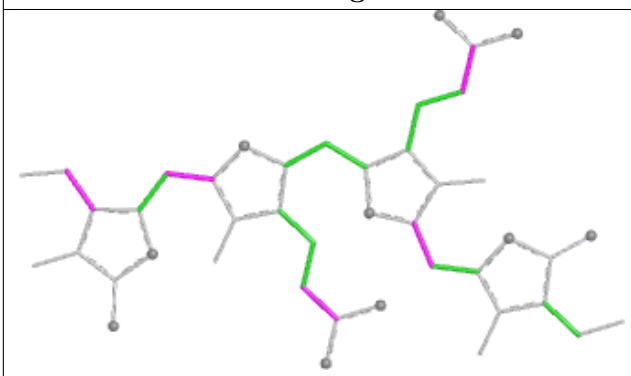
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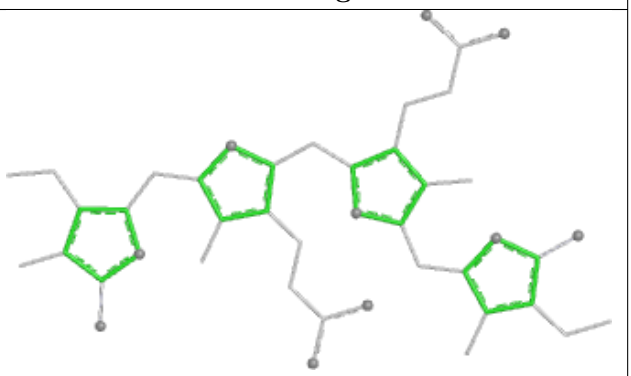
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Bond angles

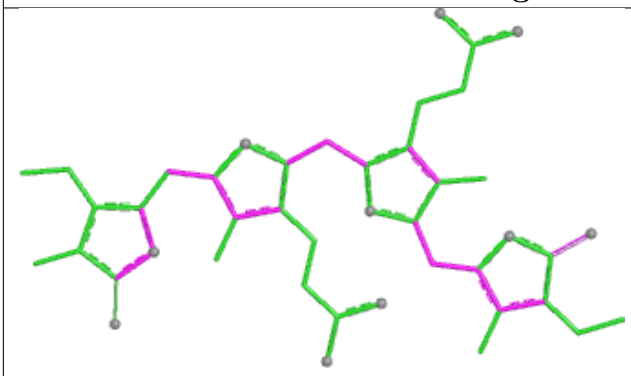


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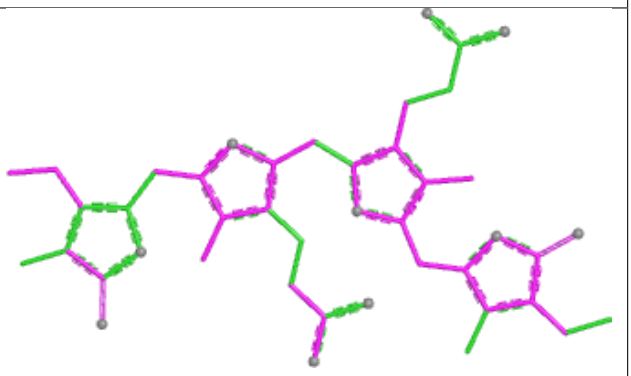


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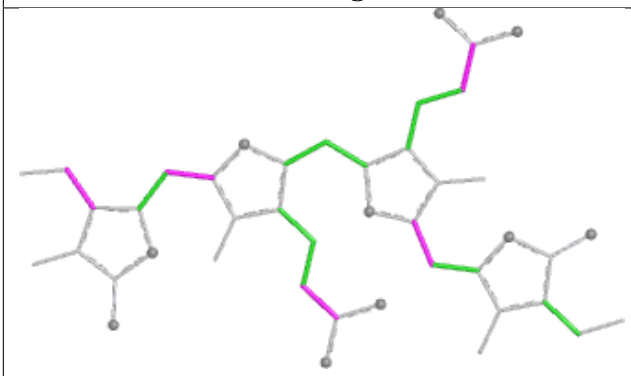
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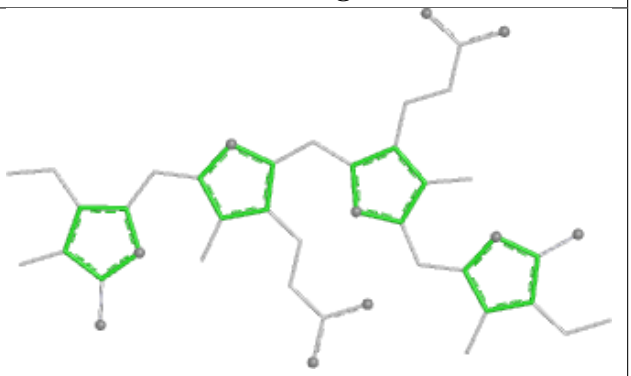
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Bond angles

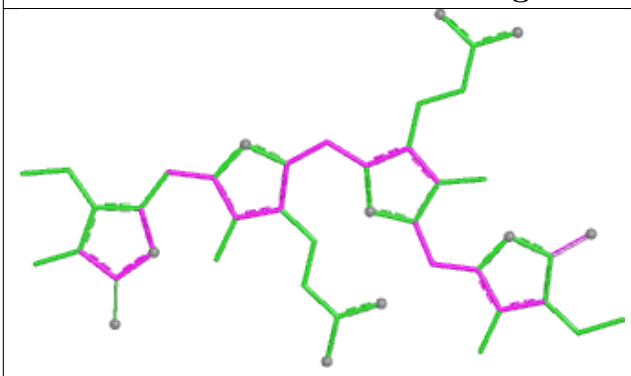


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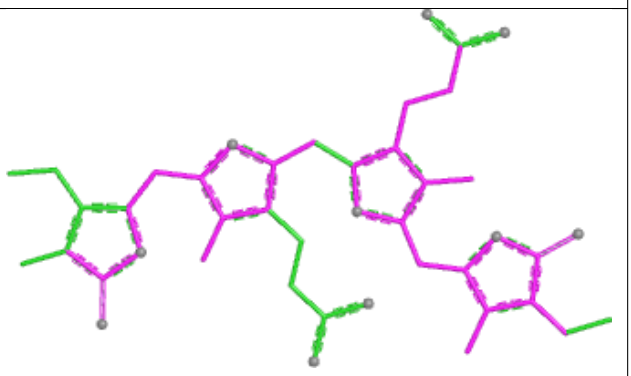


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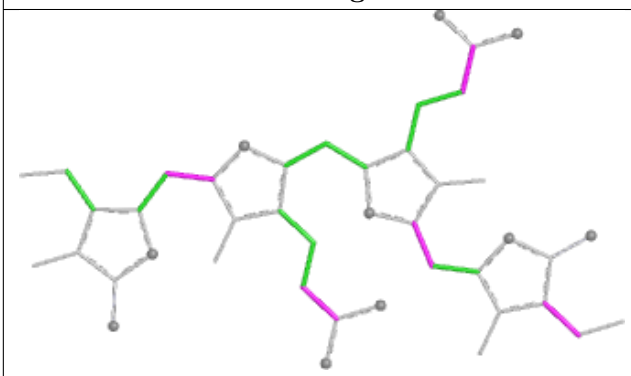
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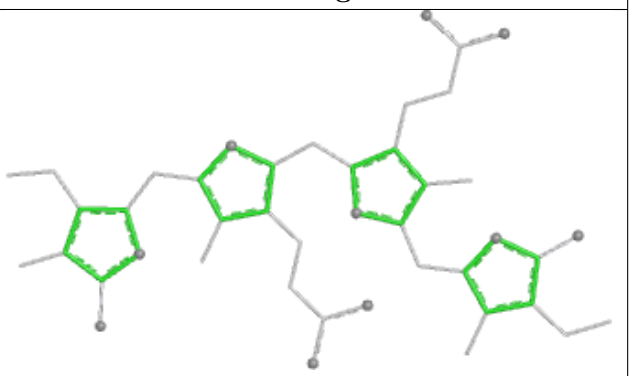
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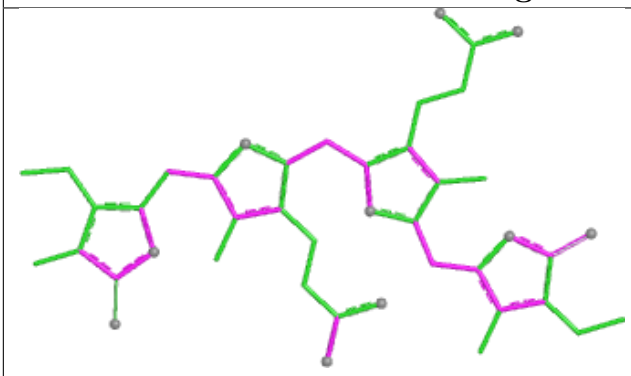


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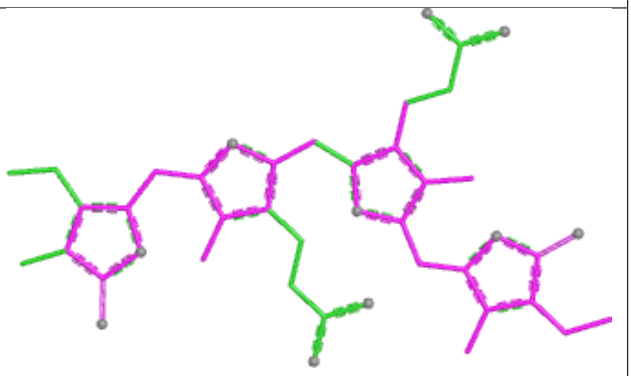


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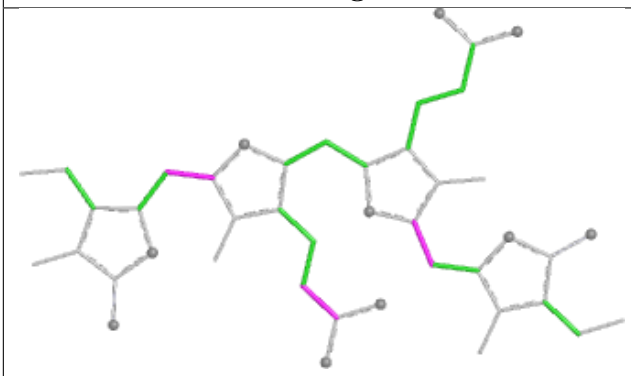
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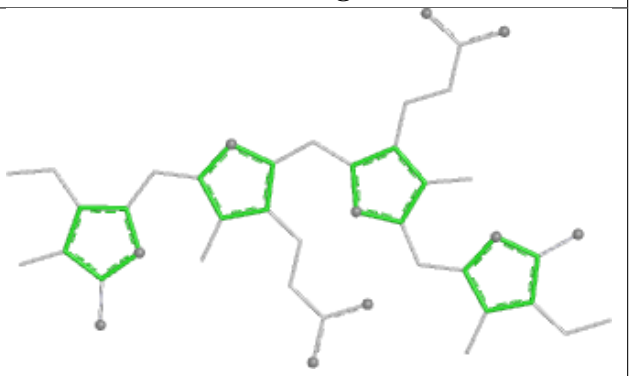
Bond lengths



Bond angles

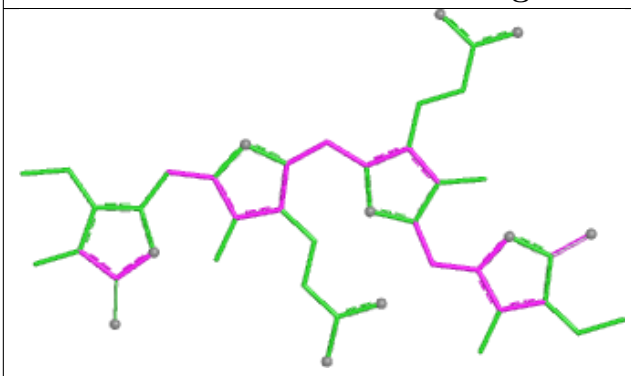


Torsions

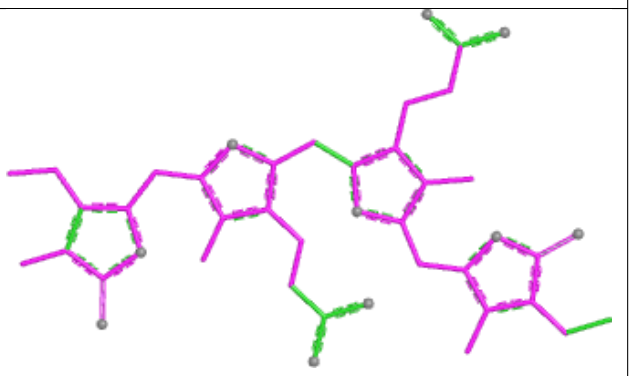


Rings

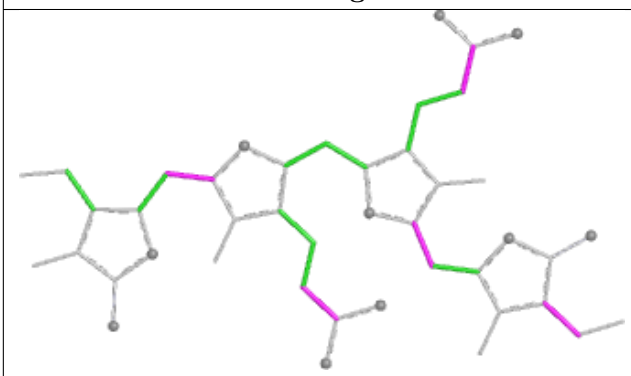
Ligand CYC K8 201



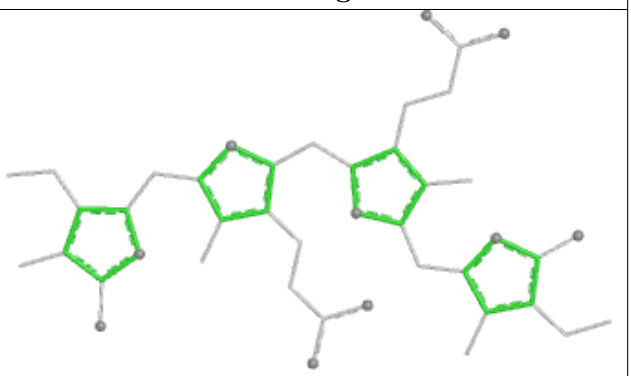
Bond lengths



Bond angles

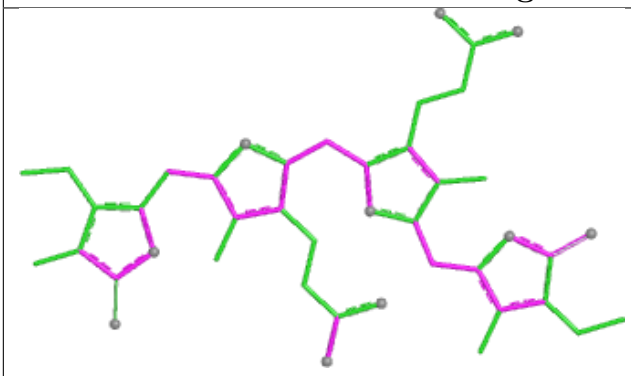


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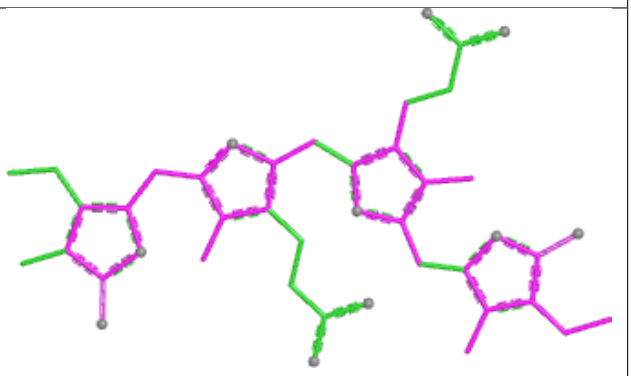


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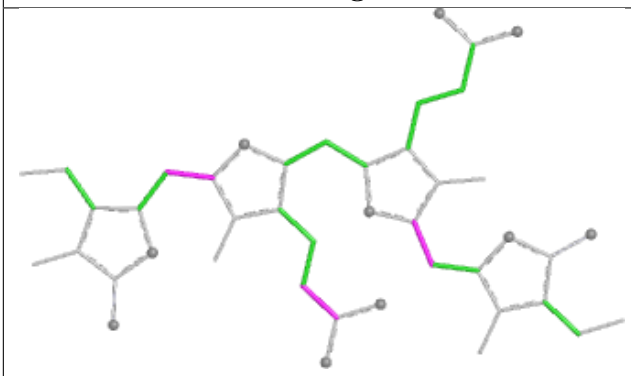
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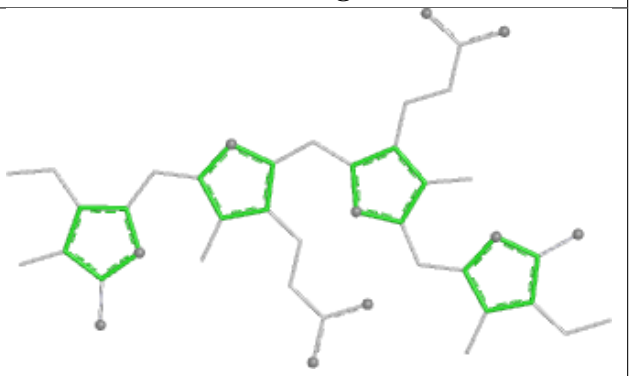
Bond lengths



Bond angles

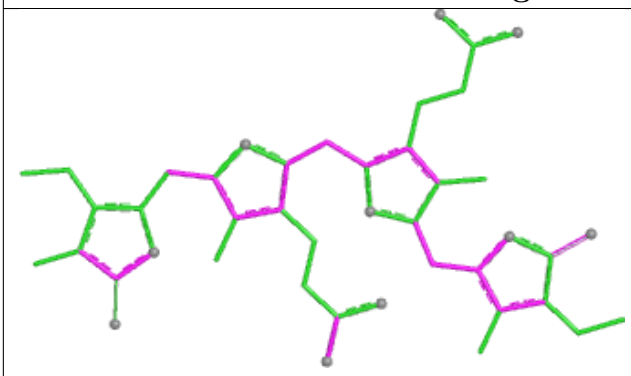


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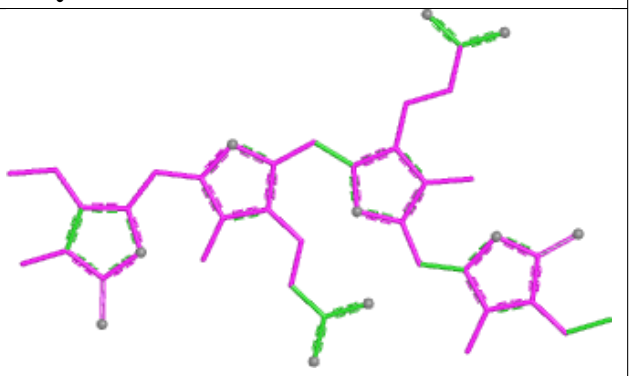


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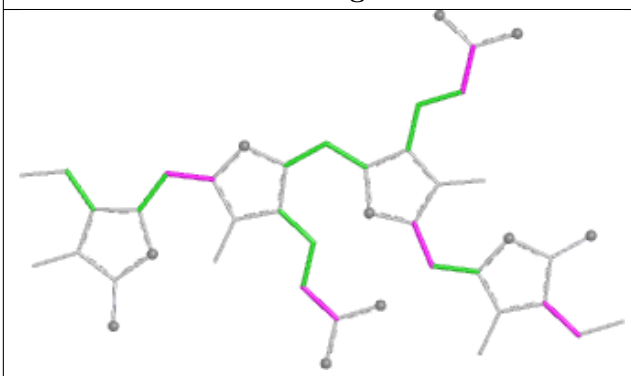
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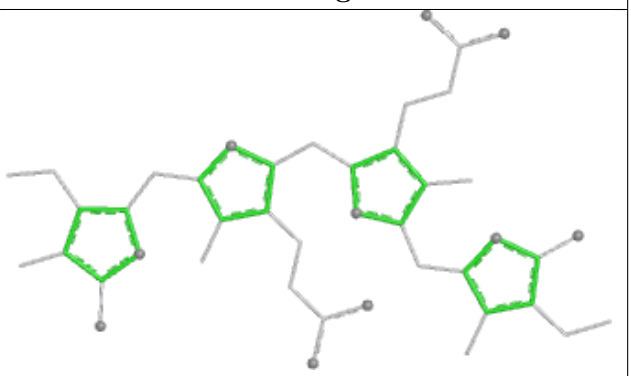
Bond lengths



Bond angles

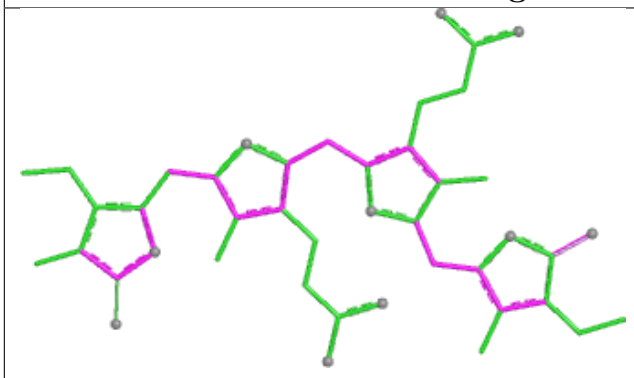


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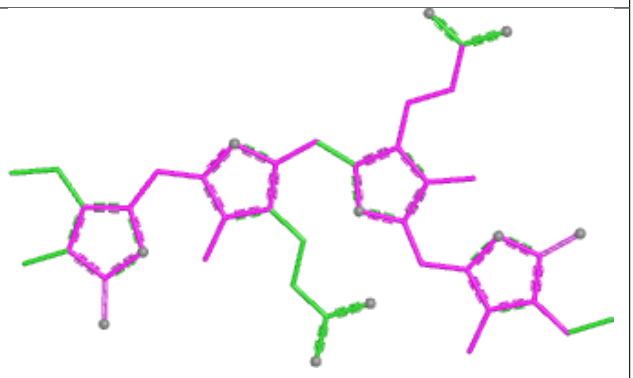


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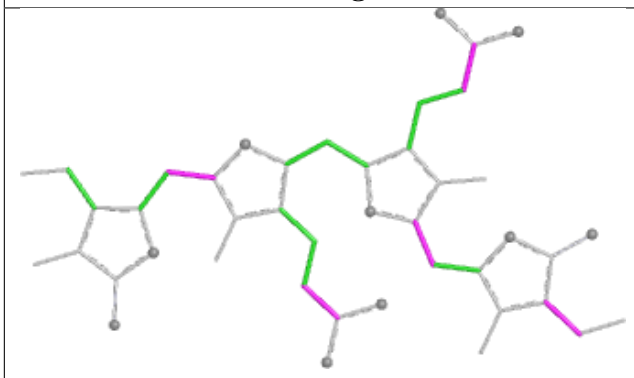
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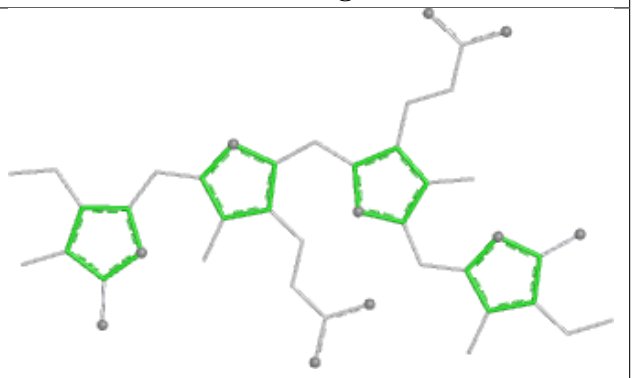
Bond lengths



Bond angles

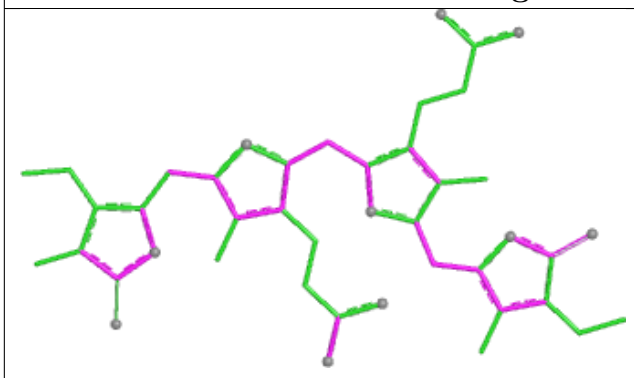


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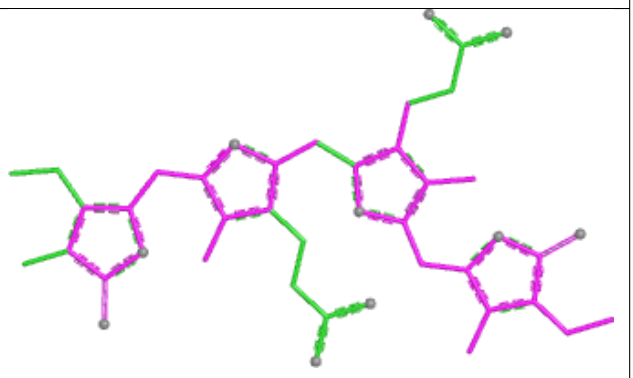


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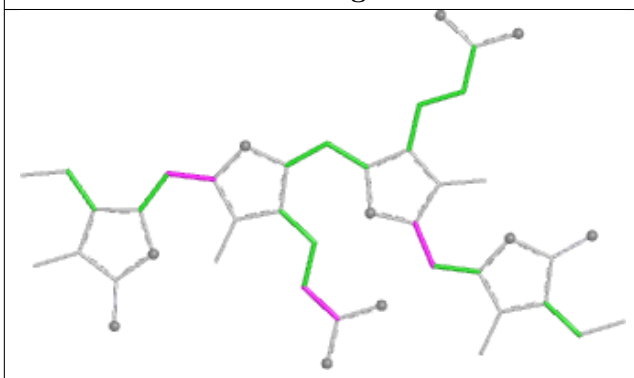
Ligand CYC LA 202



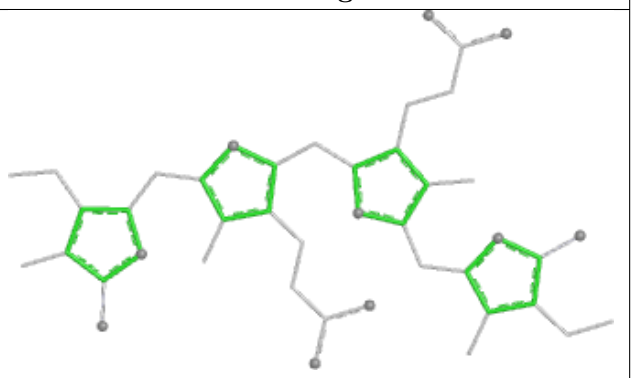
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Bond angles

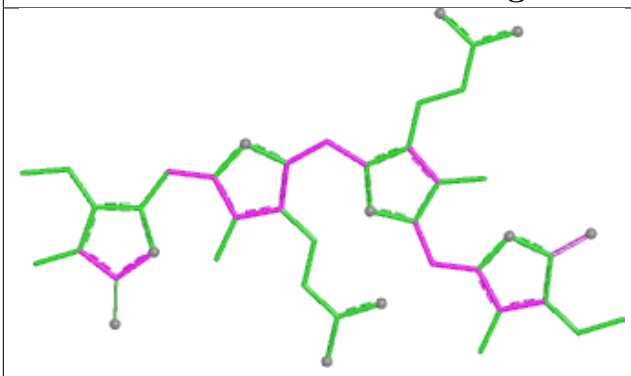


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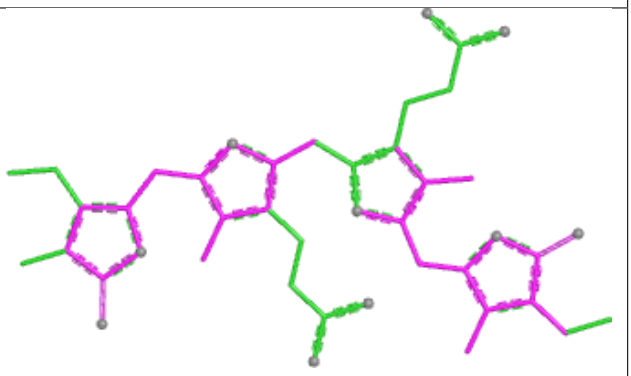


Rings

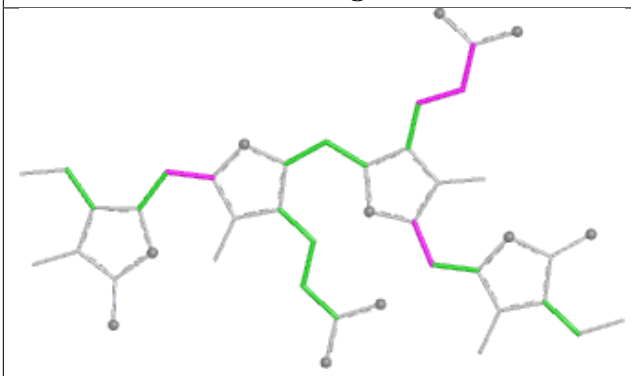
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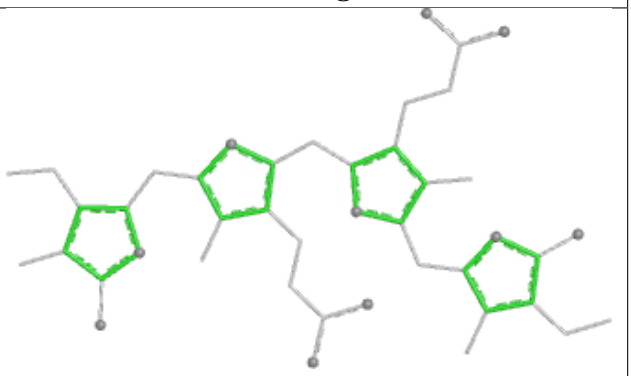
Bond lengths



Bond angles

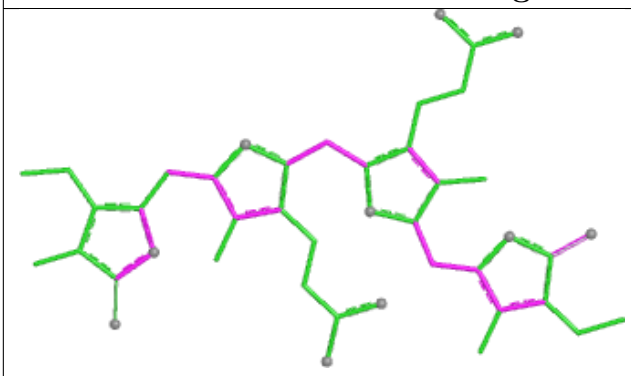


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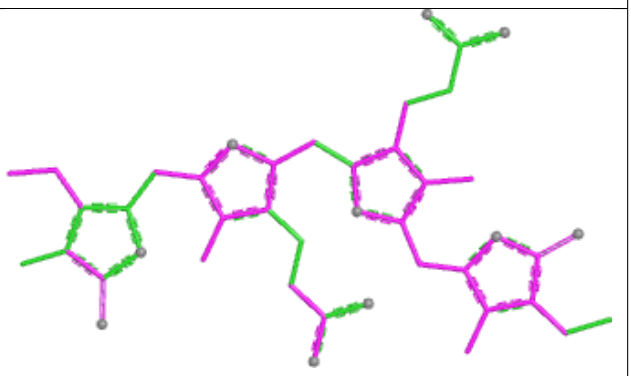


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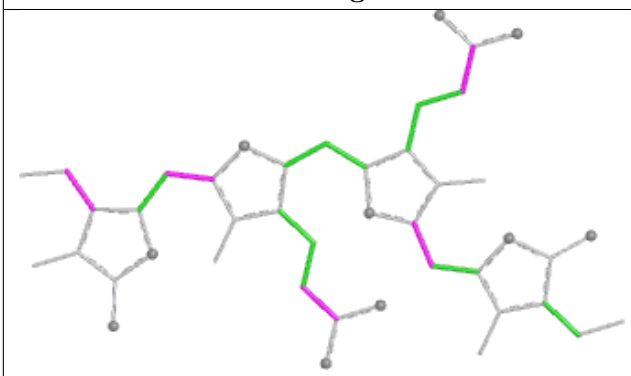
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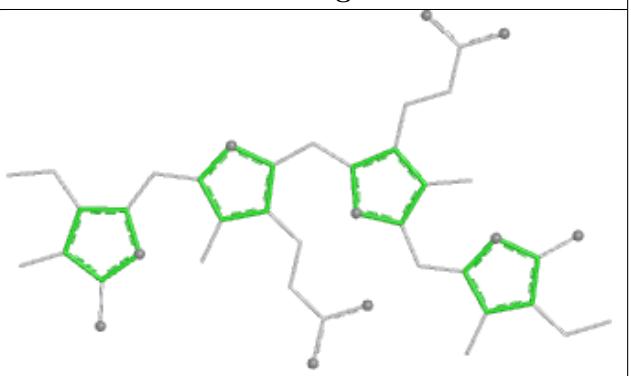
Bond lengths



Bond angles

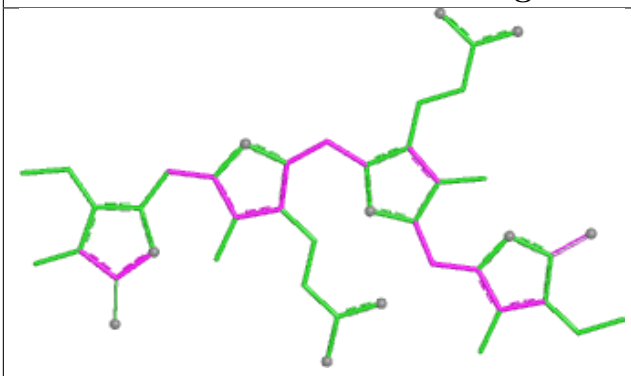


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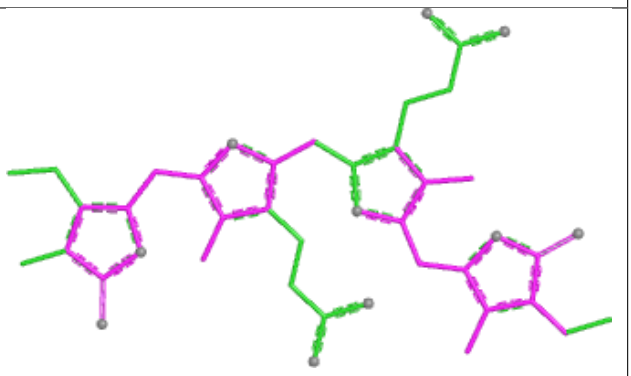


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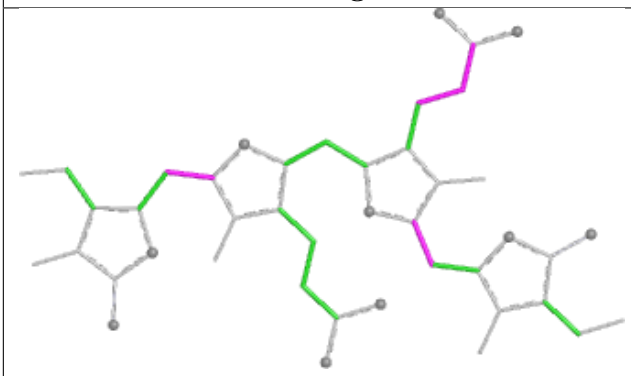
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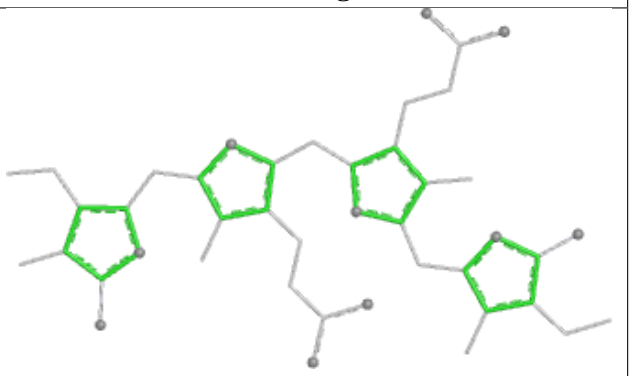
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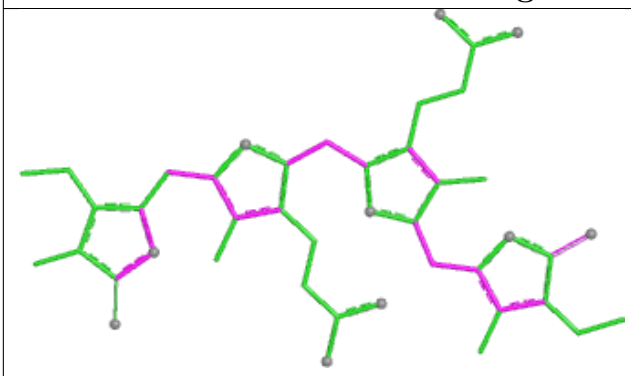


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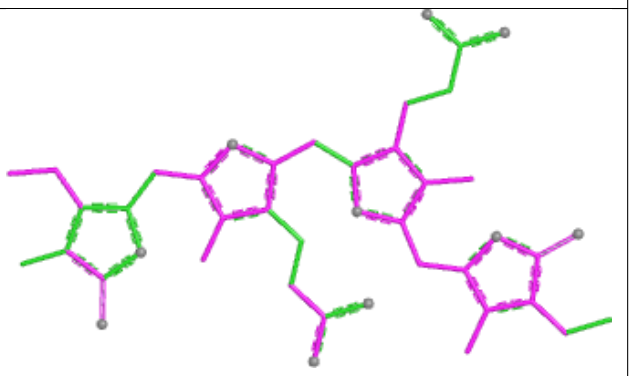


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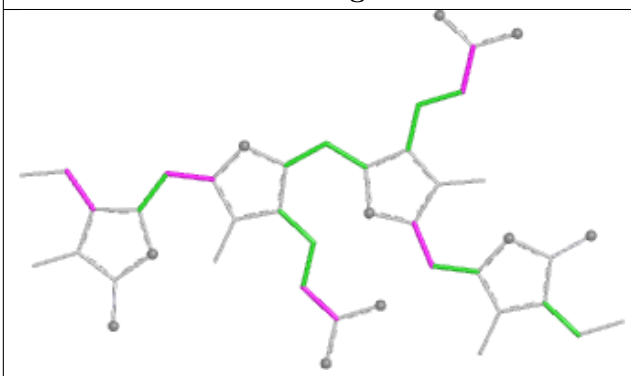
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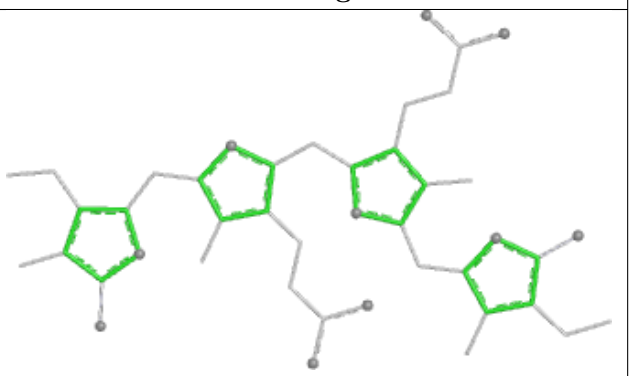
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Bond angles

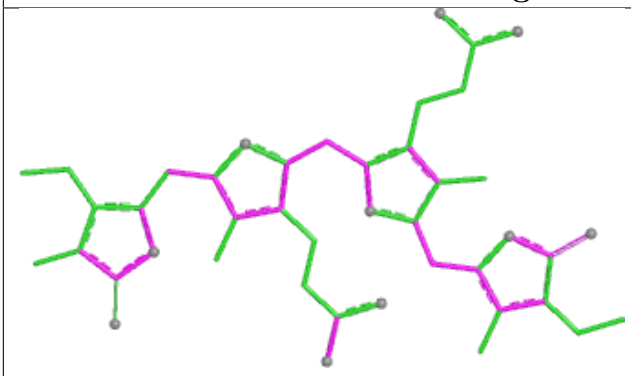


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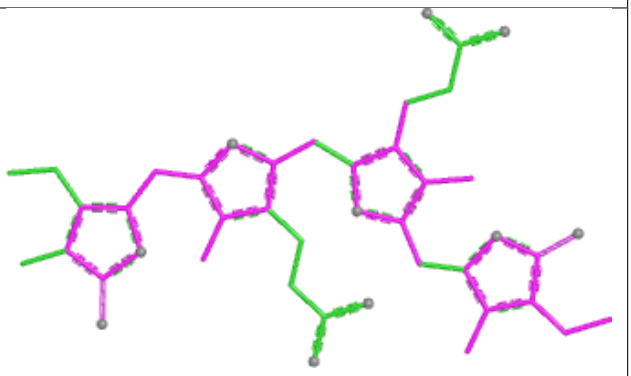


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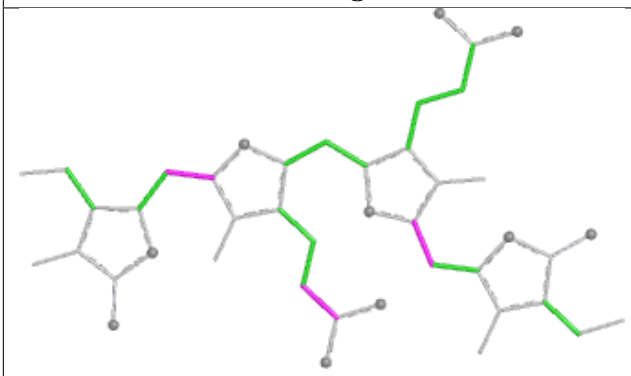
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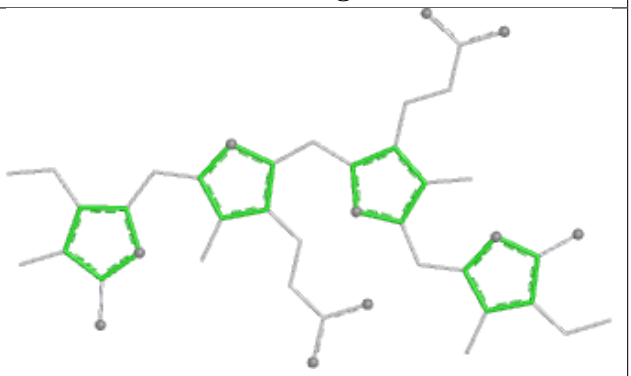
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Bond angles

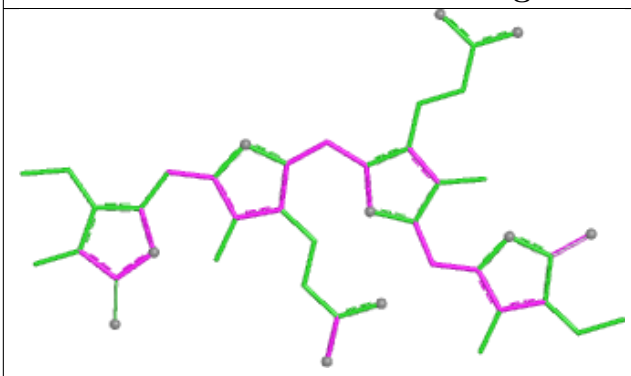


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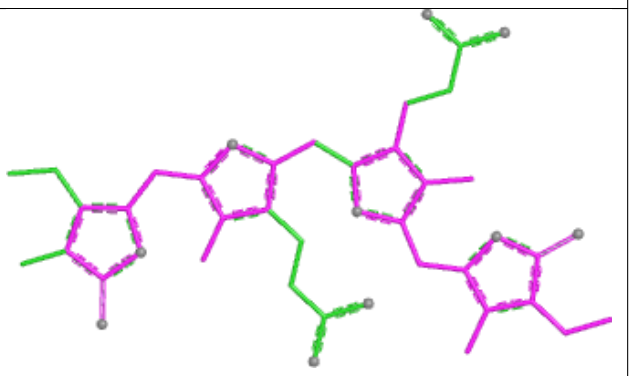


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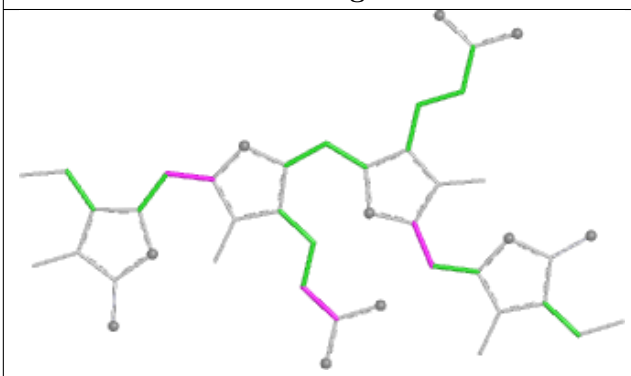
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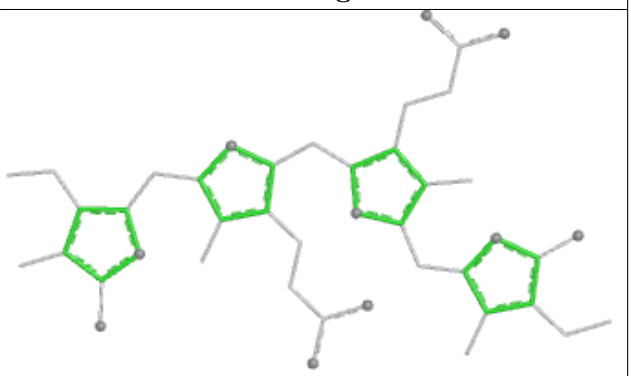
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Bond angles

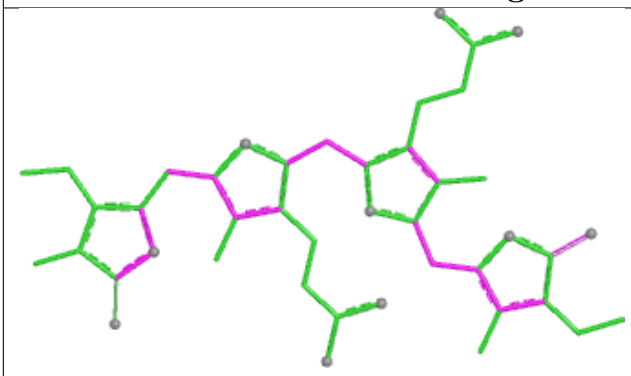


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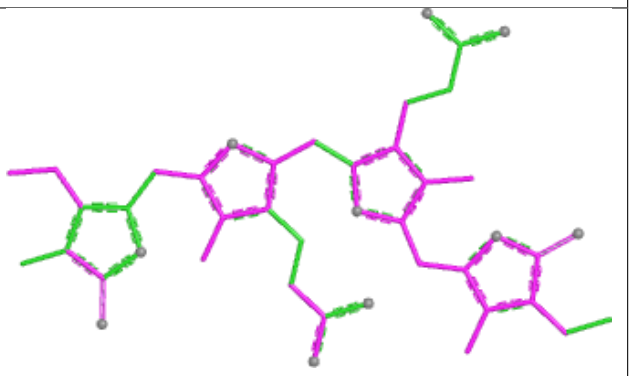


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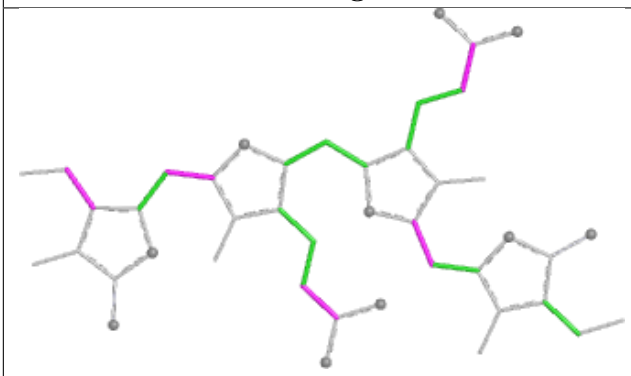
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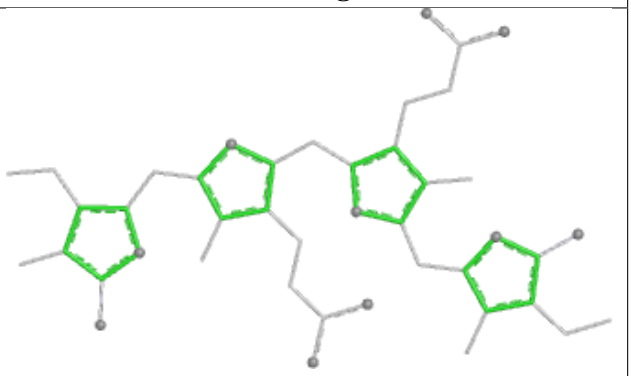
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Bond angles

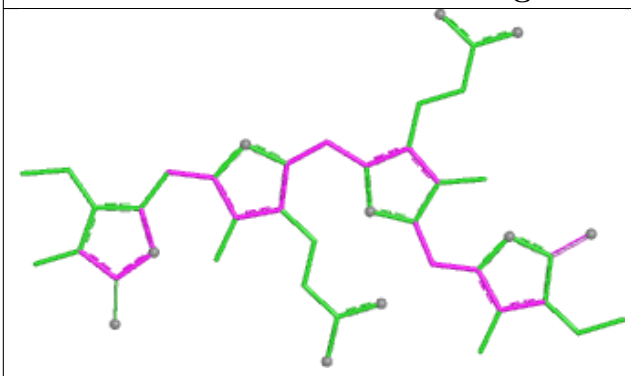


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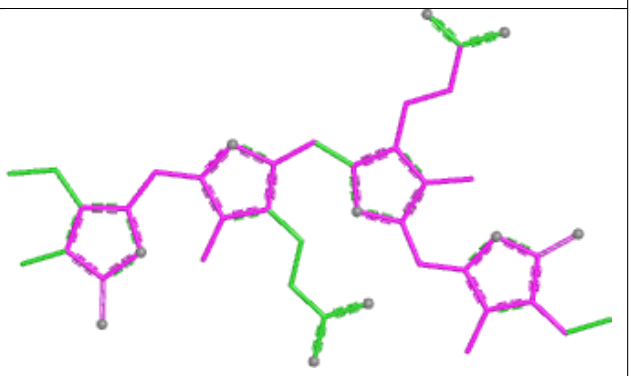


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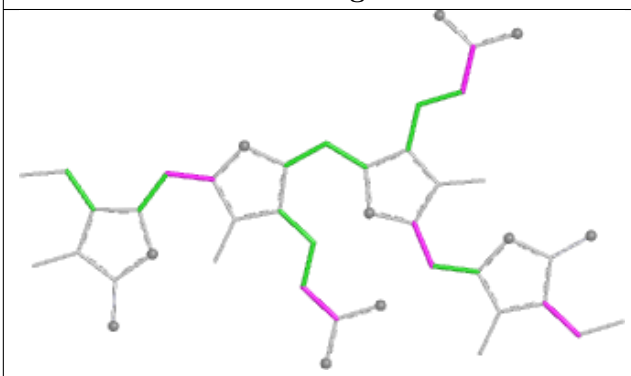
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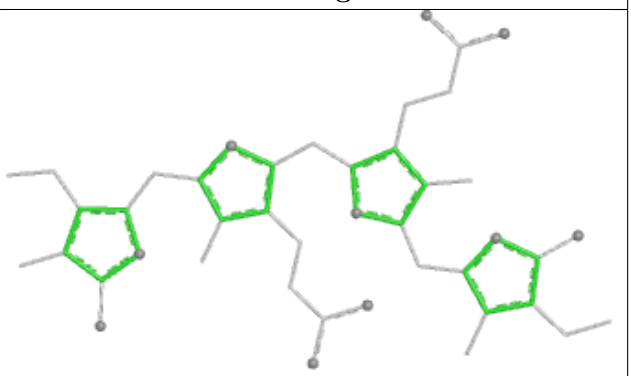
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Bond angles

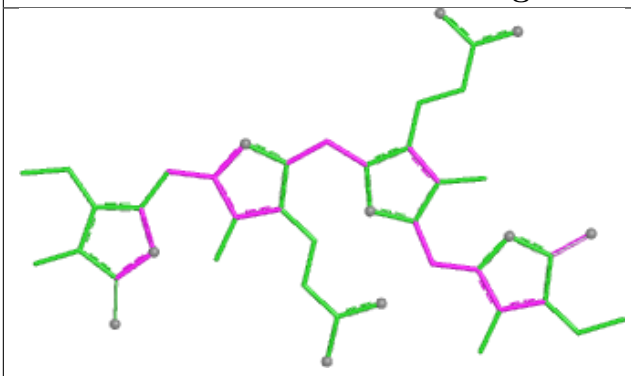


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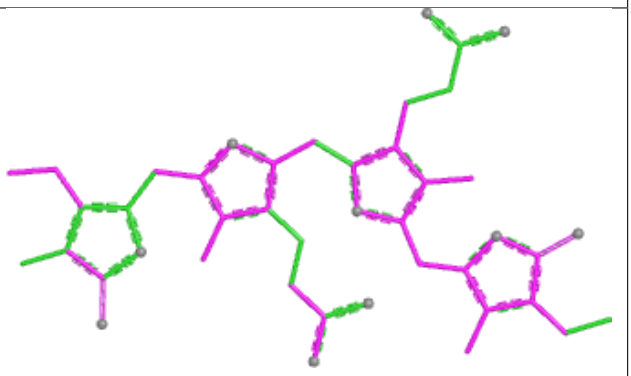


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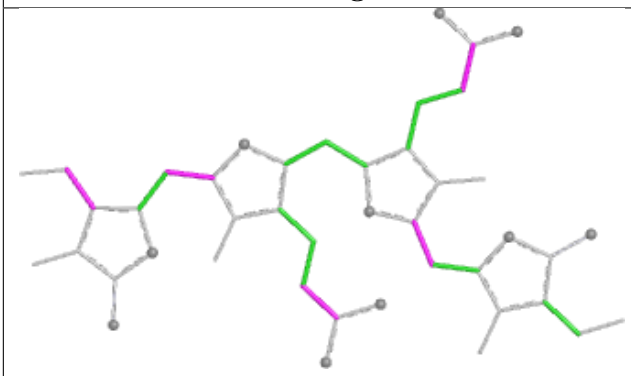
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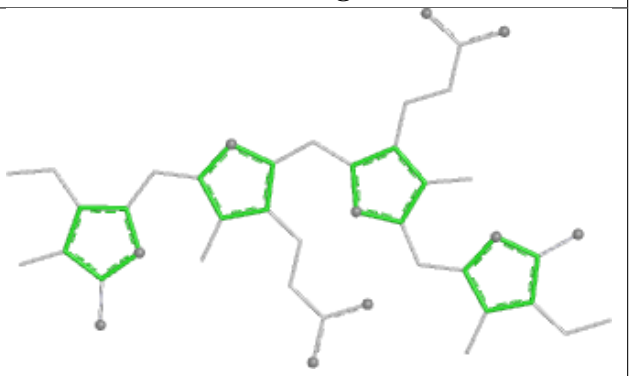
Bond lengths



Bond angles

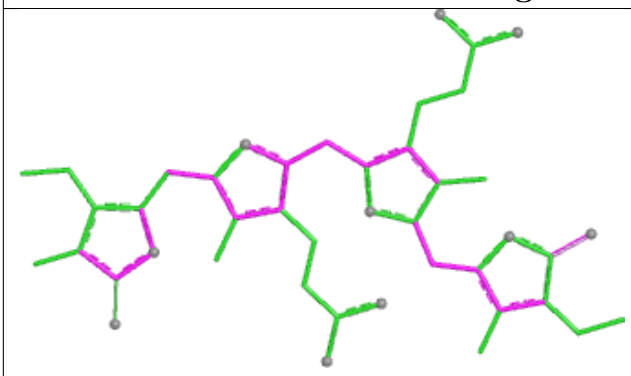


Torsions

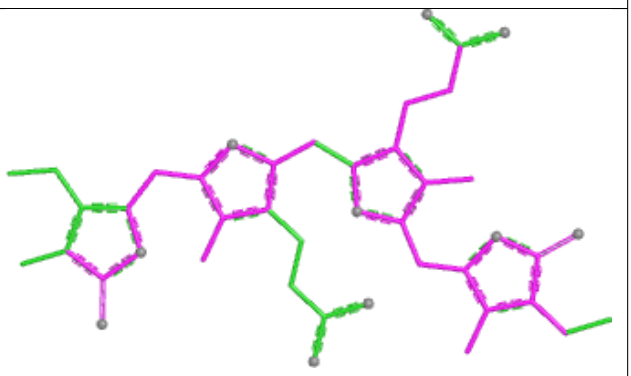


Rings

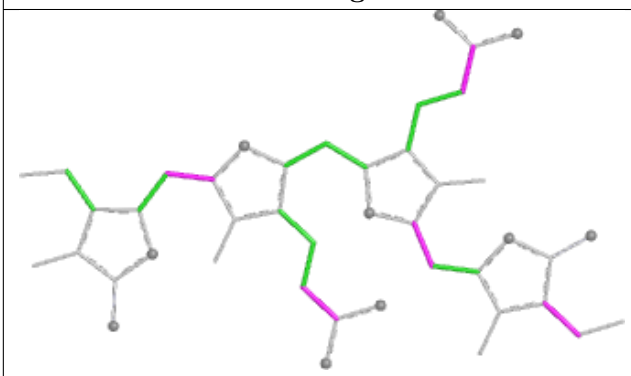
Ligand CYC Z5 201



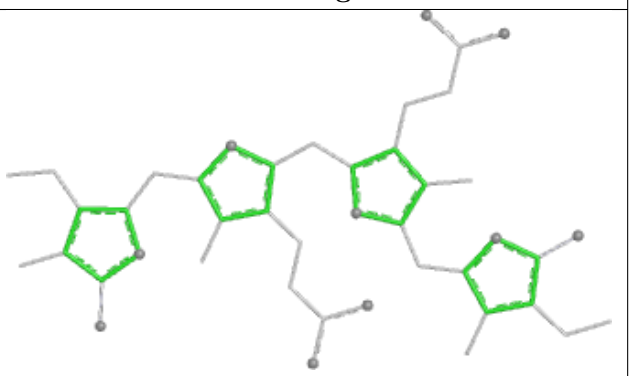
Bond lengths



Bond angles

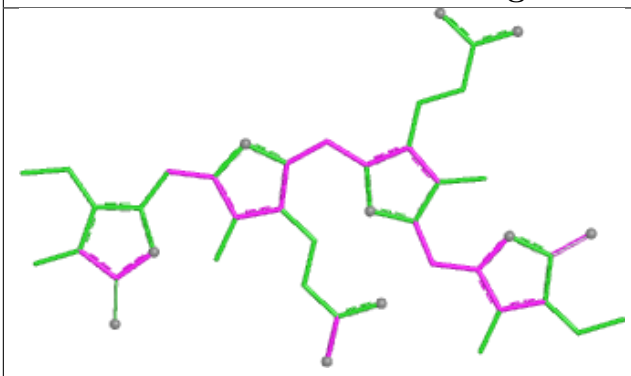


Torsions

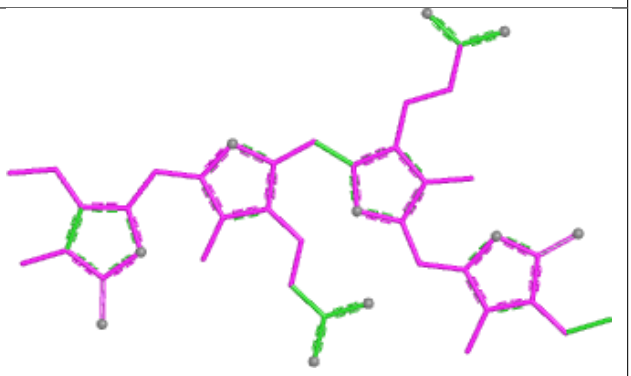


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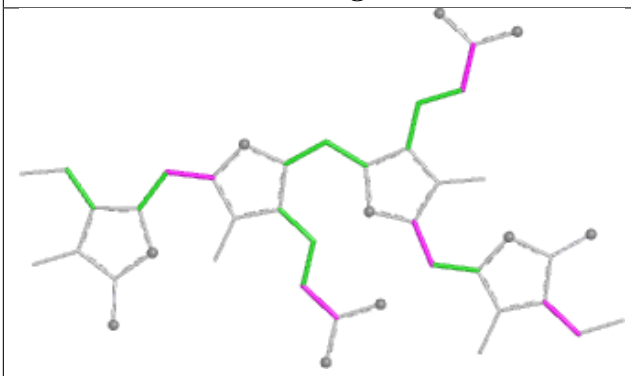
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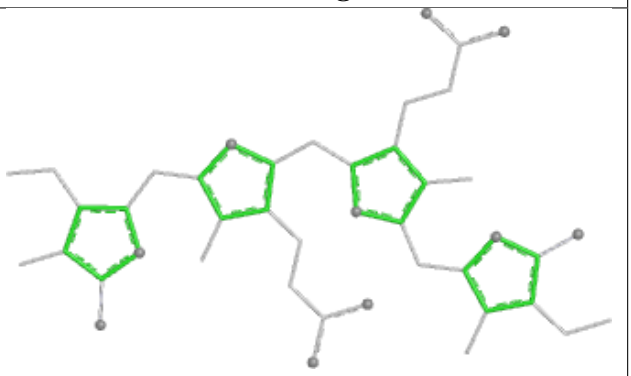
Bond lengths



Bond angles

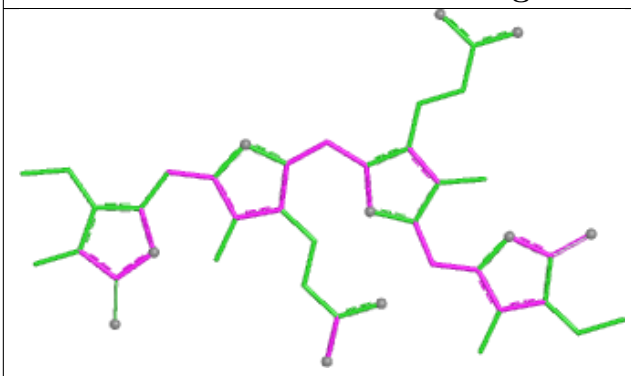


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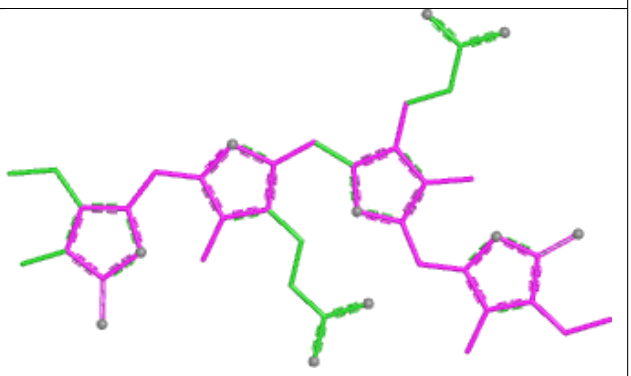


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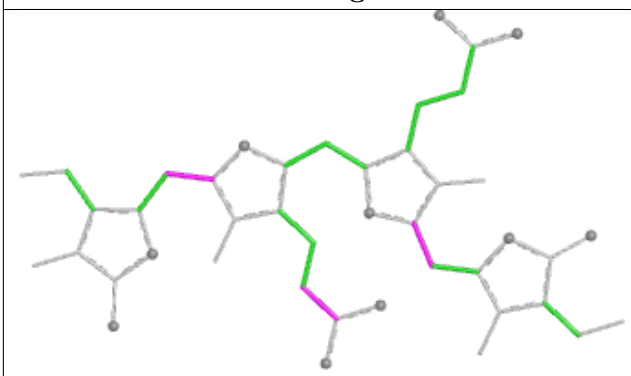
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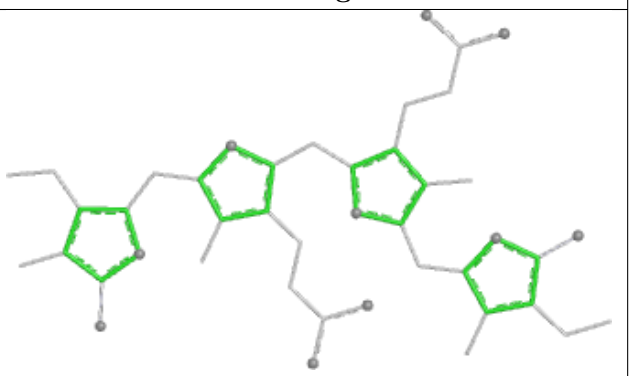
Bond lengths



Bond angles

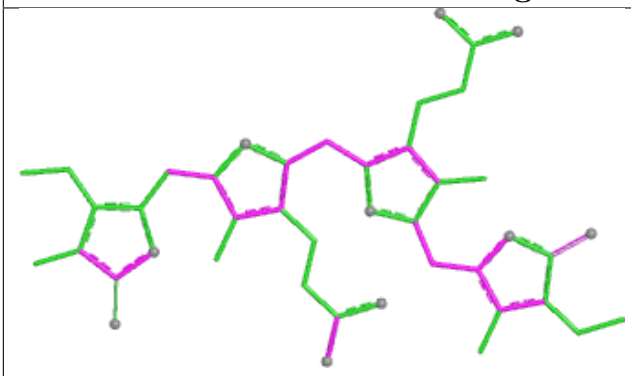


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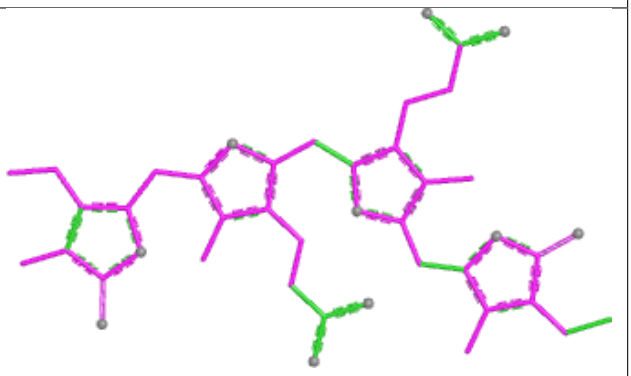


Rings

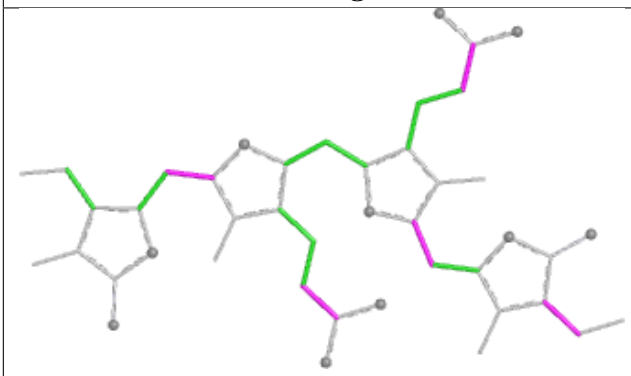
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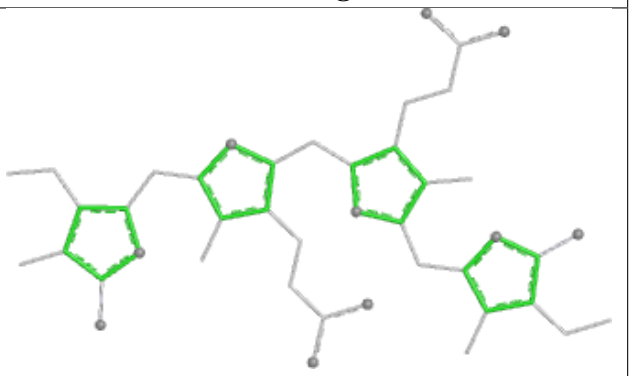
Bond lengths



Bond angles

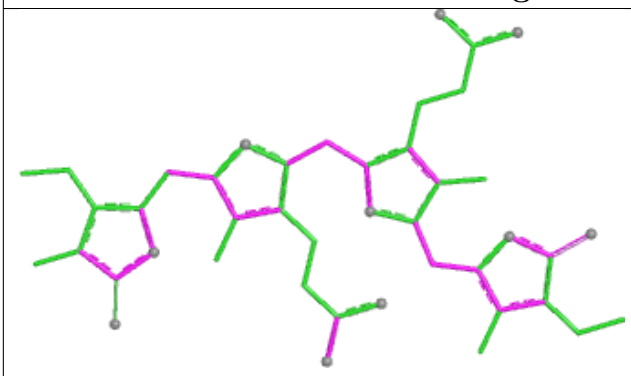


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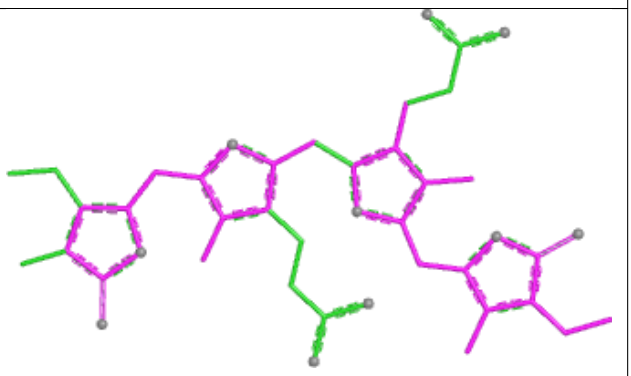


Rings

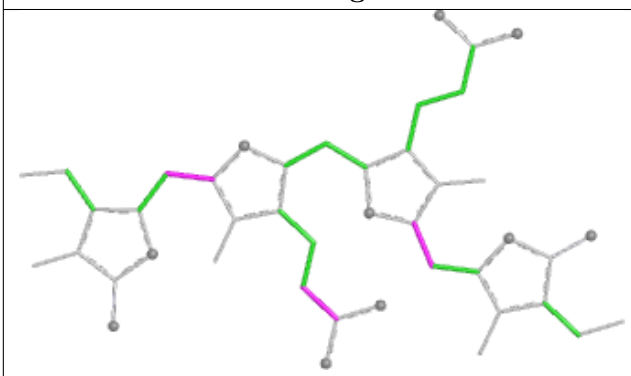
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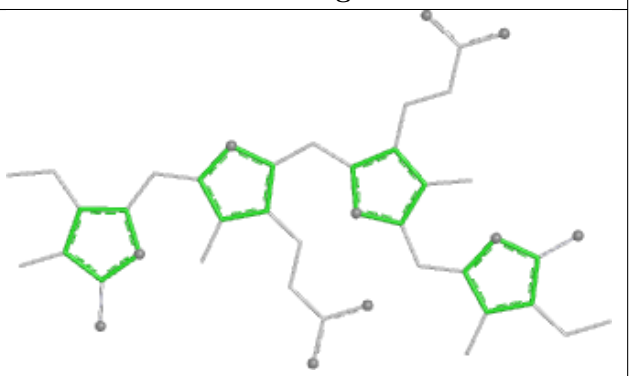
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Bond angles

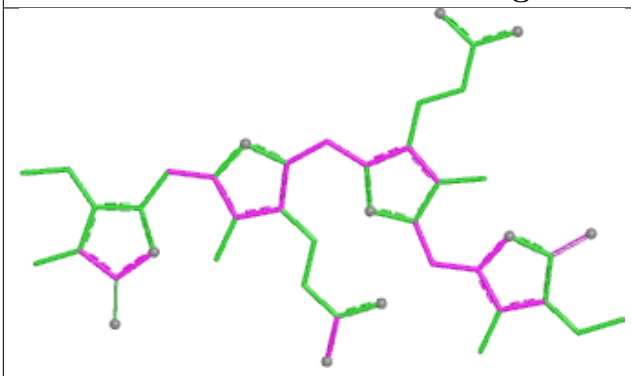


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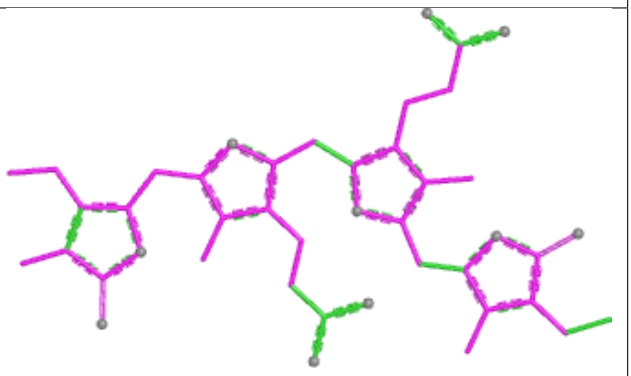


Rings

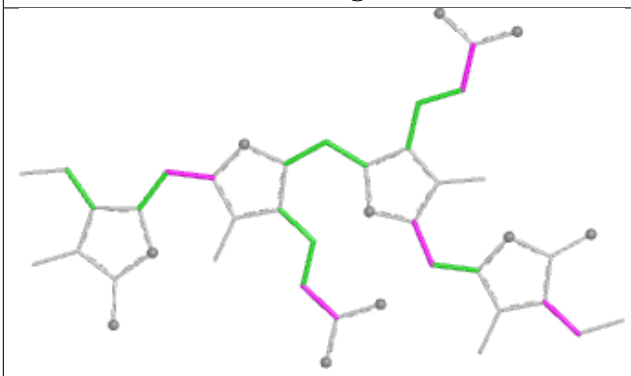
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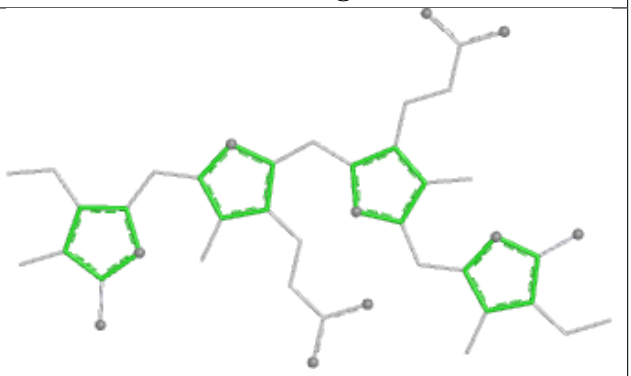
Bond lengths



Bond angles

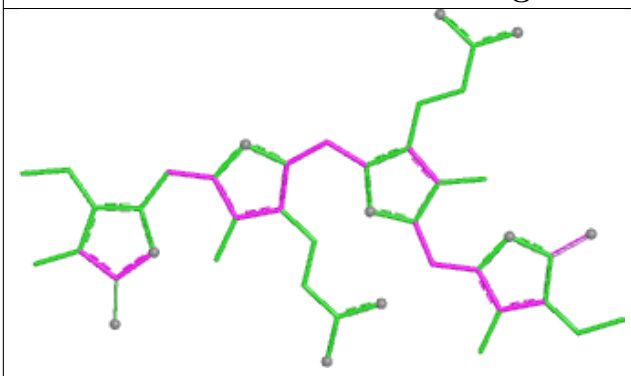


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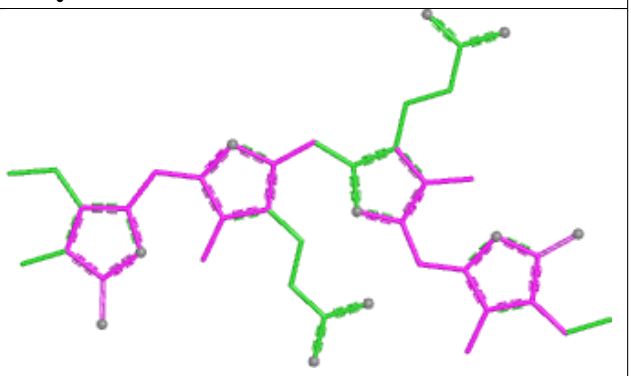


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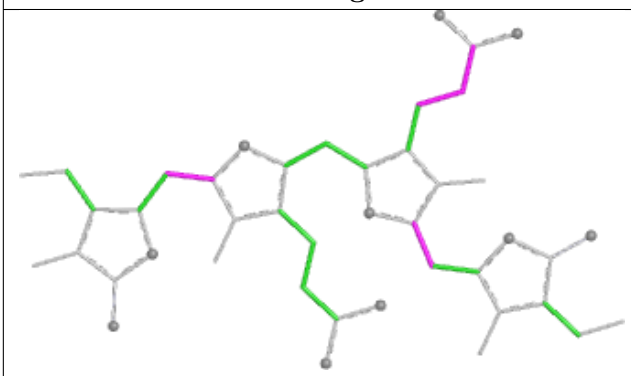
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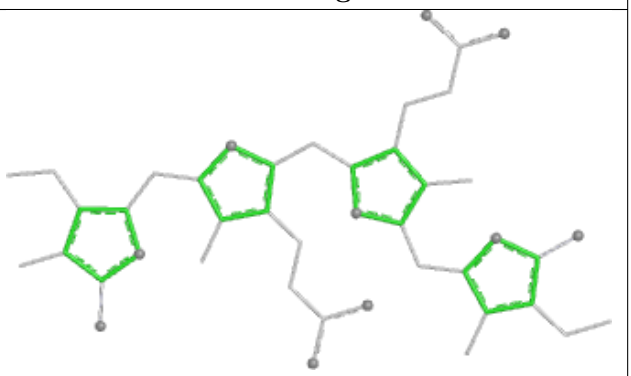
Bond lengths



Bond angles

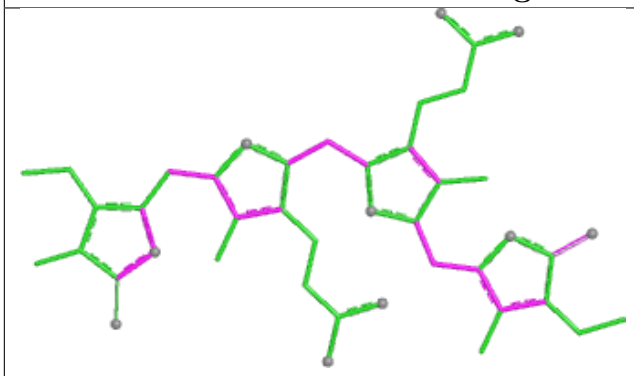


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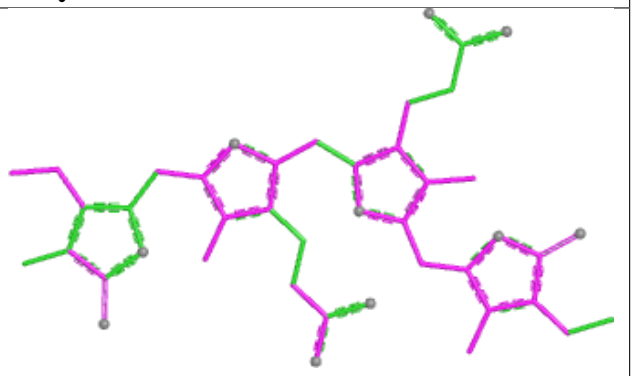


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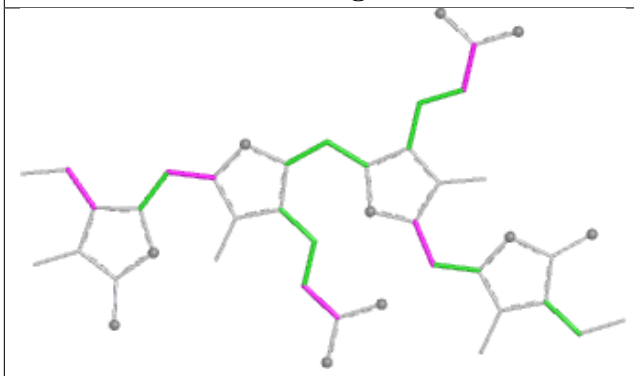
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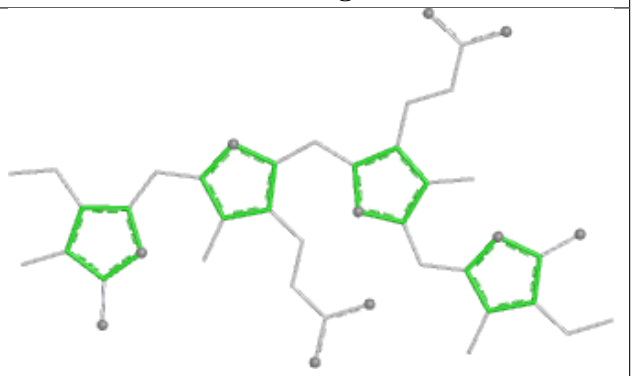
Bond lengths



Bond angles

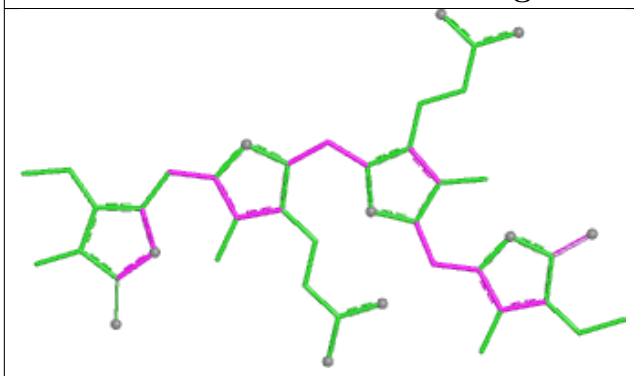


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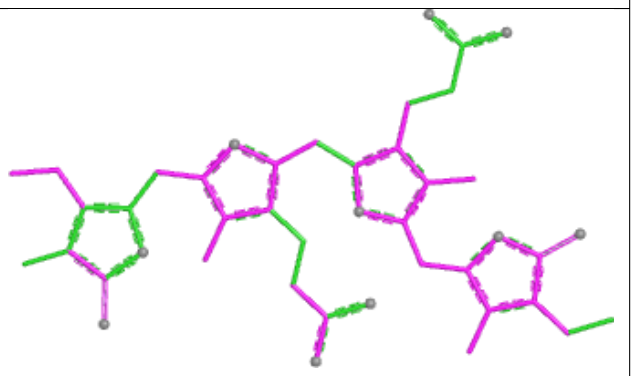


Rings

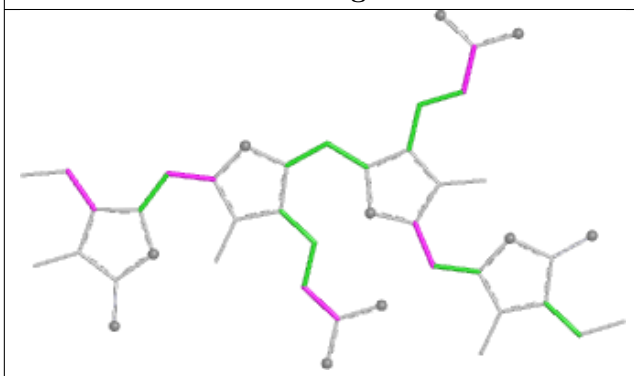
Ligand CYC R1 202



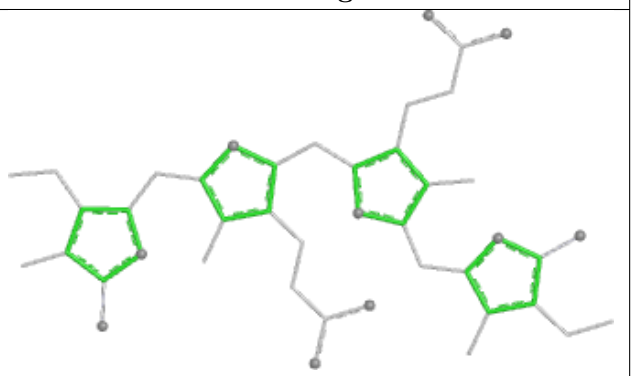
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Bond angles

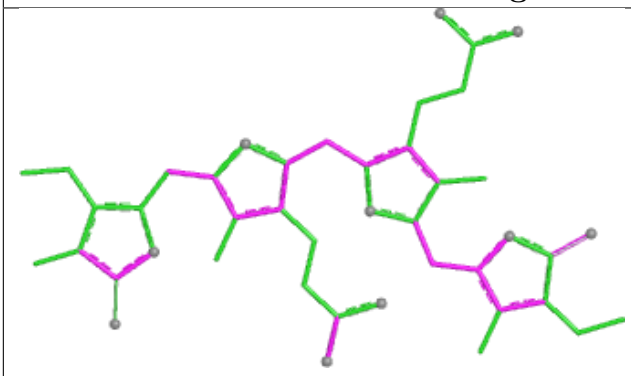


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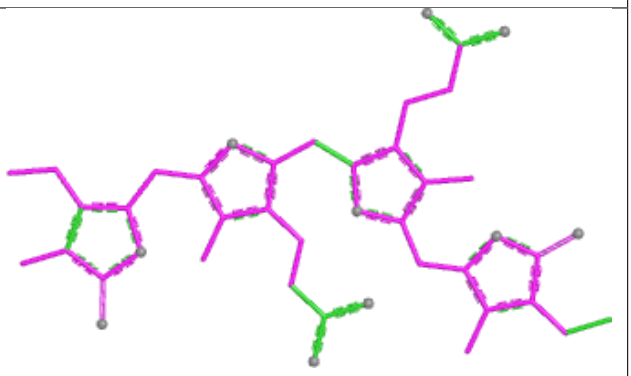


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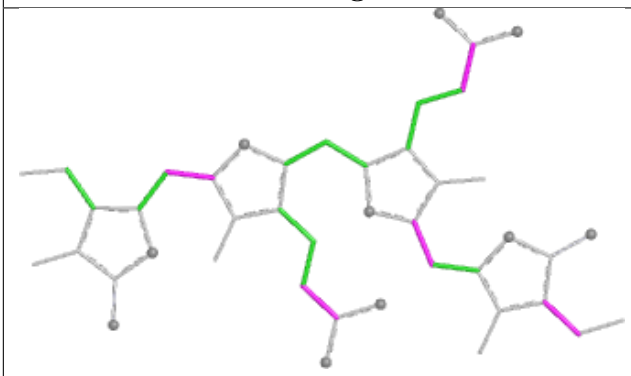
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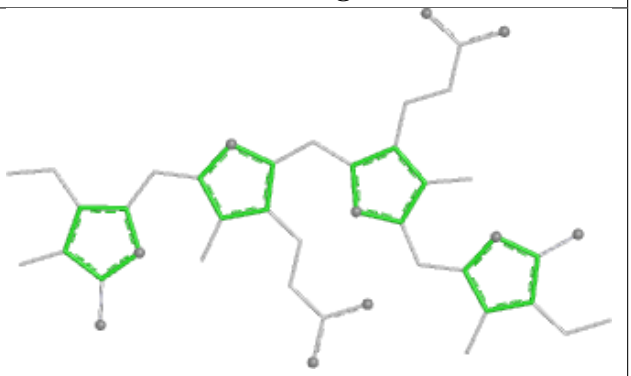
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Bond angles

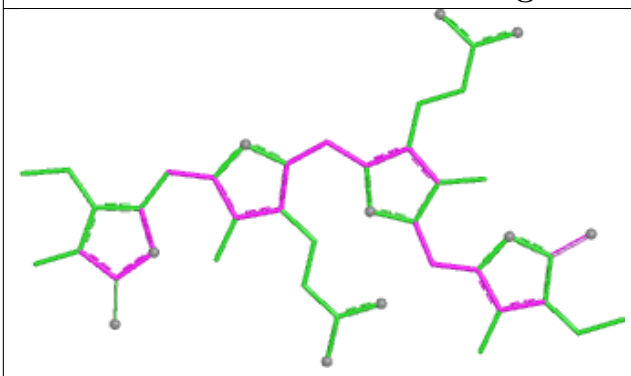


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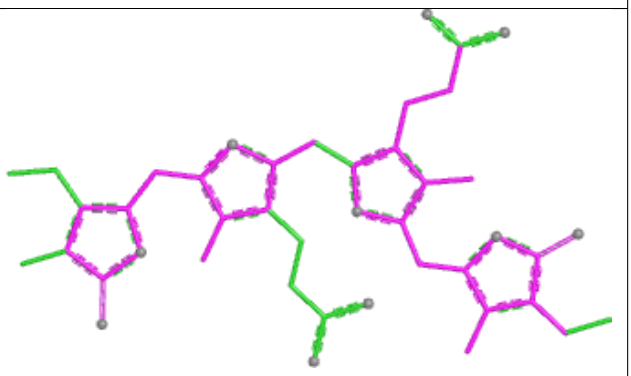


Rings

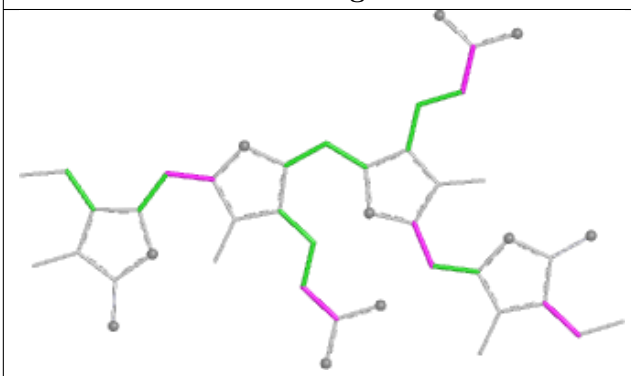
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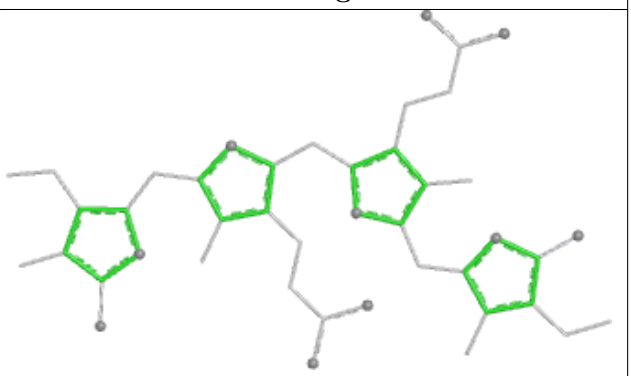
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Bond angles

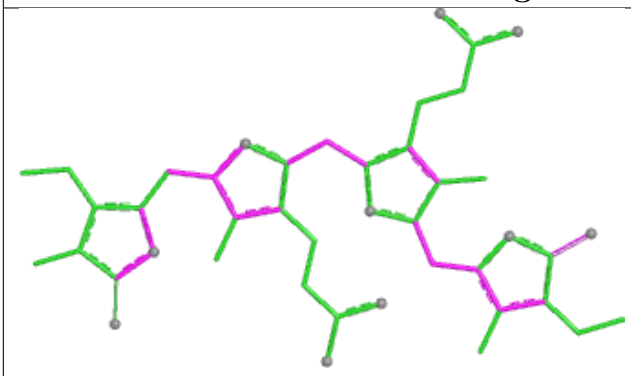


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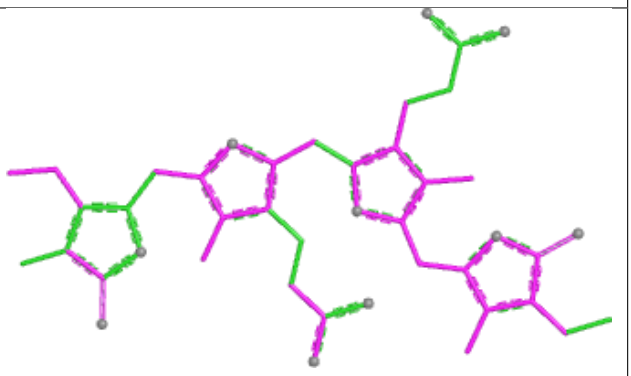


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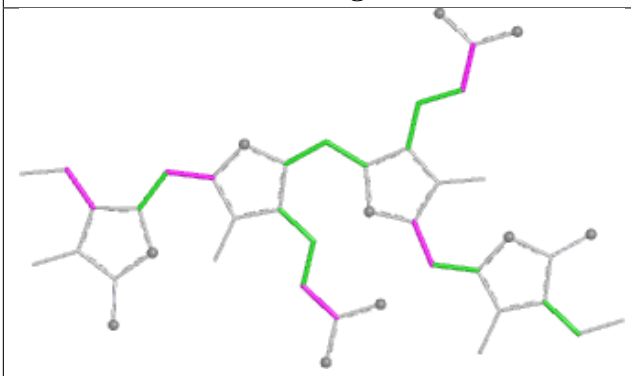
Ligand CYC T1 302



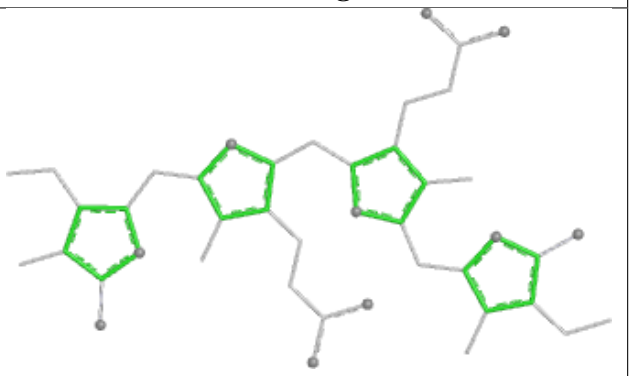
Bond lengths



Bond angles

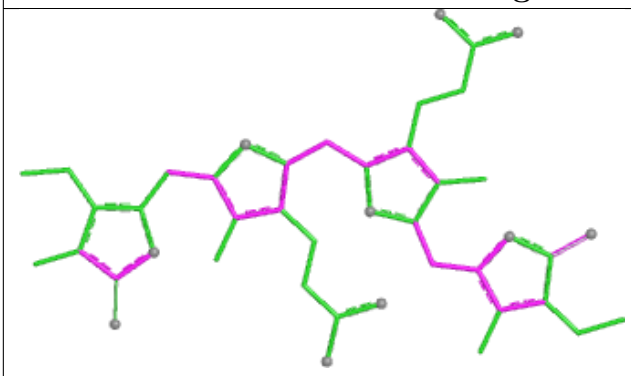


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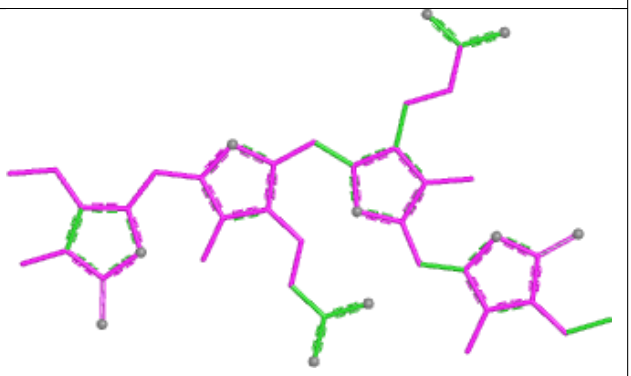


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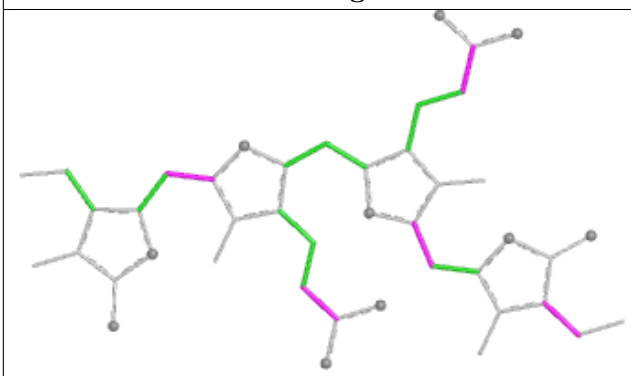
Ligand CYC C6 201



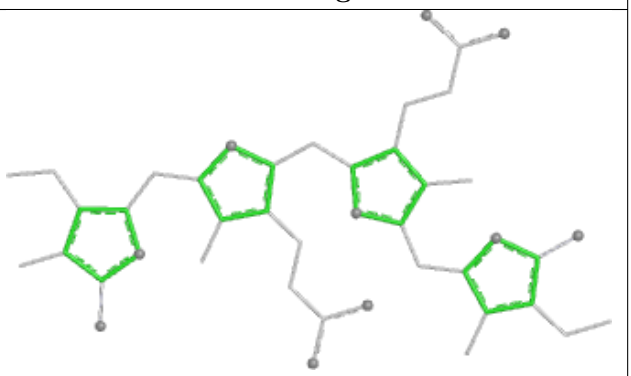
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Bond angles

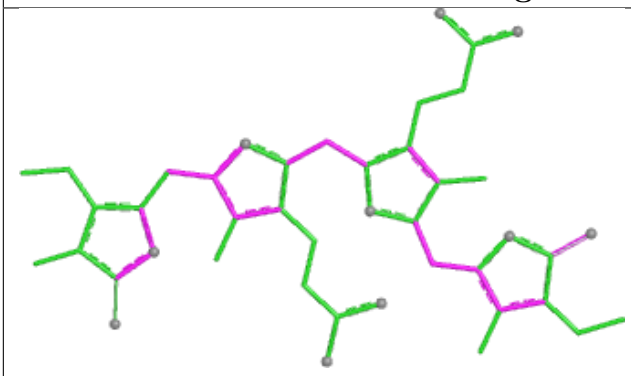


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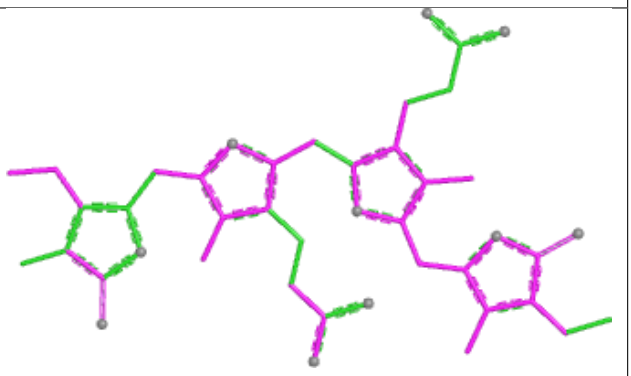


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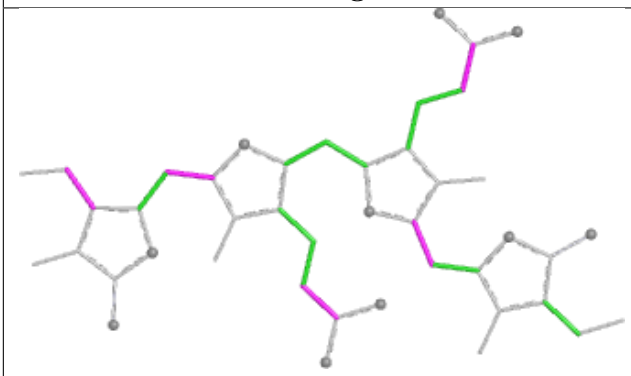
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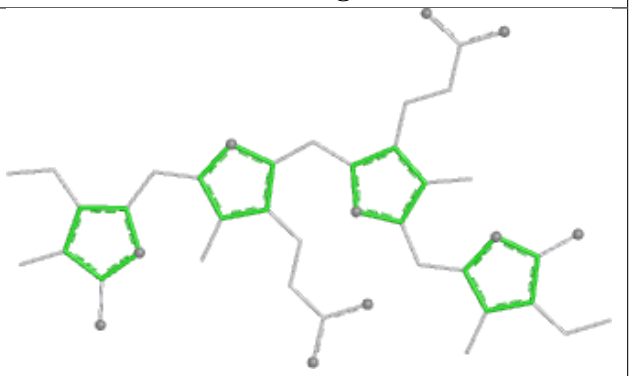
Bond lengths



Bond angles

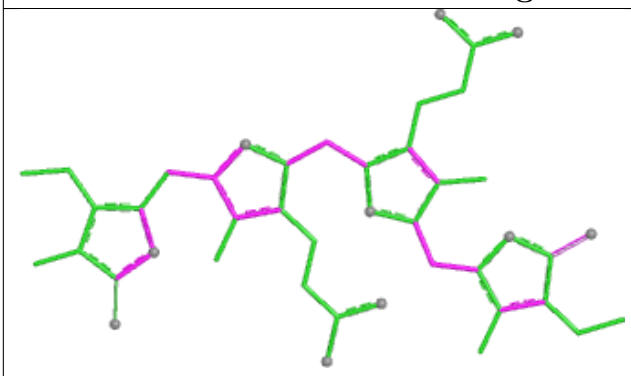


Torsions

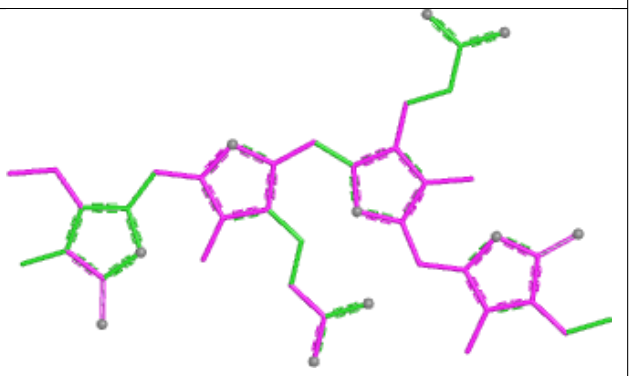


Rings

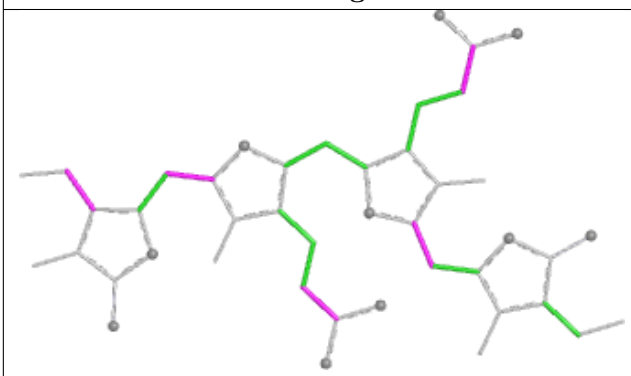
Ligand CYC S8 201



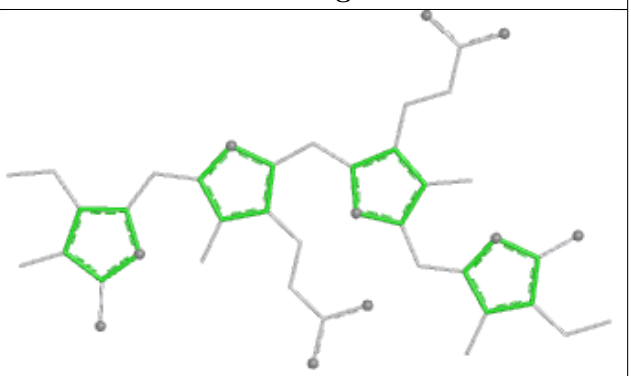
Bond lengths



Bond angles

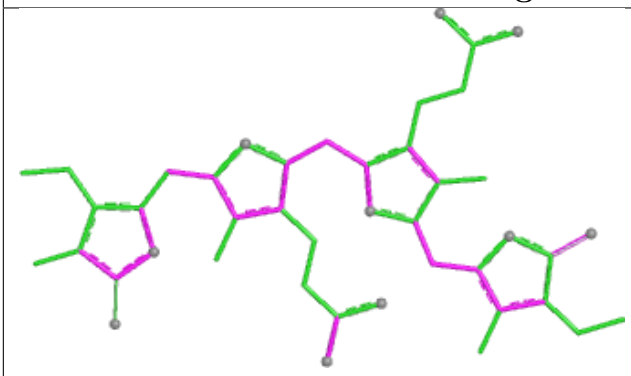


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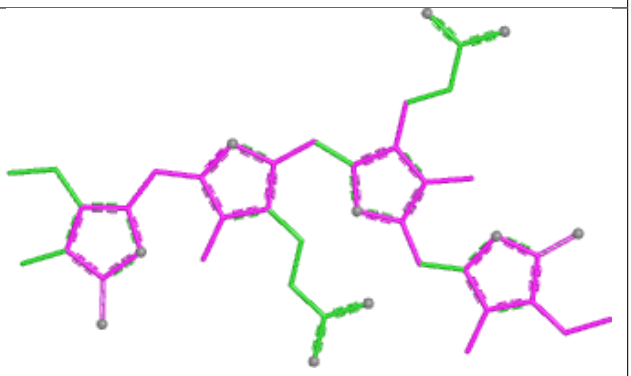


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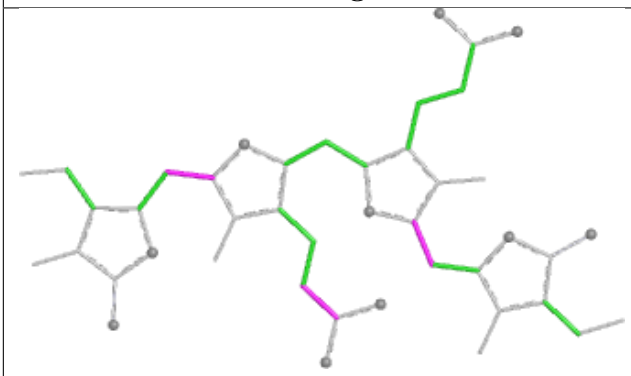
Ligand CYC L4 202



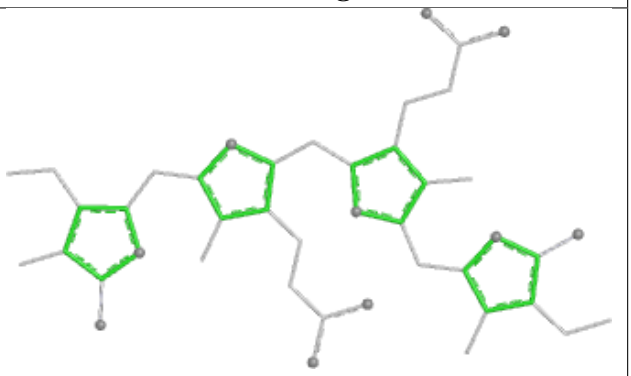
Bond lengths



Bond angles

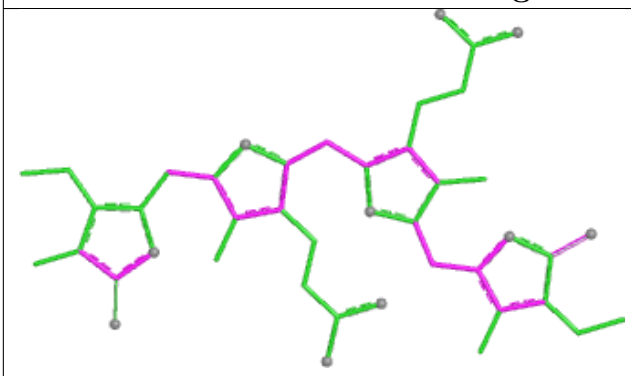


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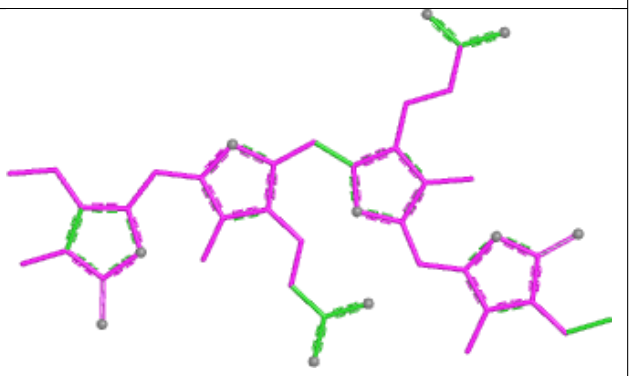


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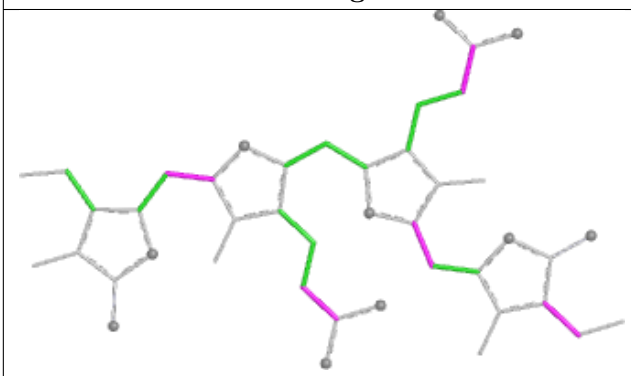
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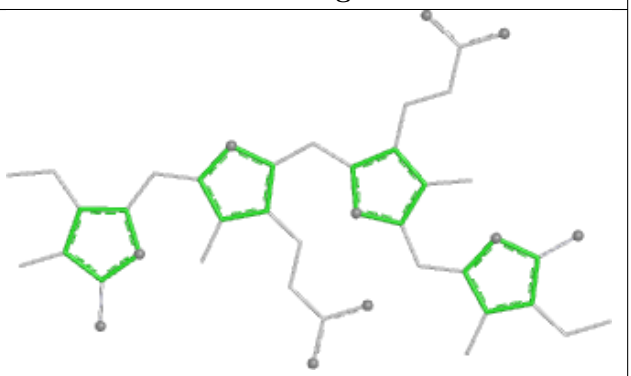
Bond lengths



Bond angles

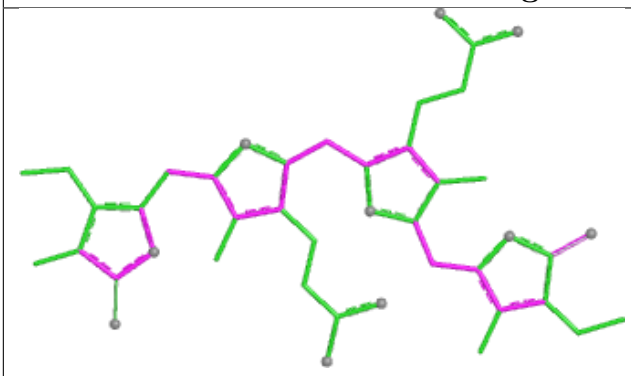


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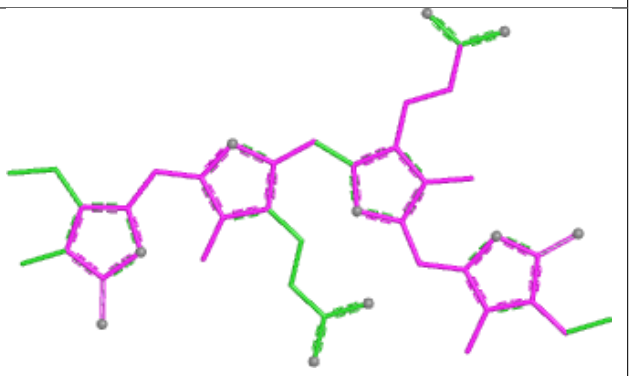


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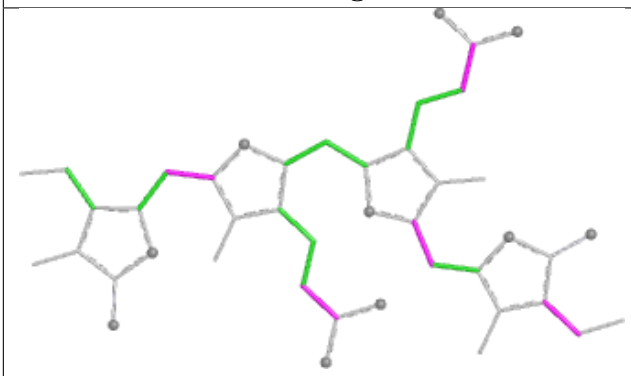
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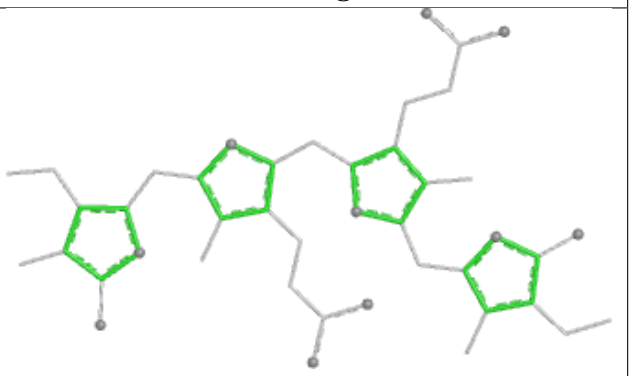
Bond lengths



Bond angles

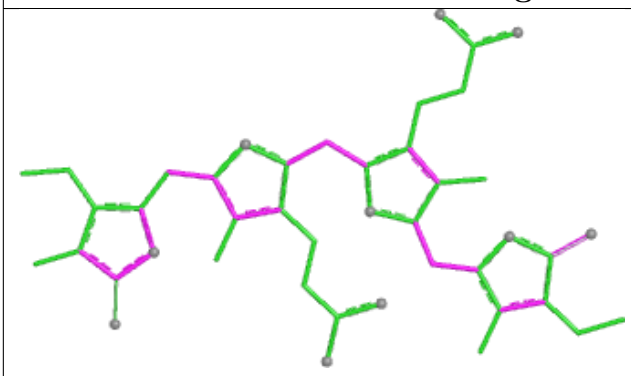


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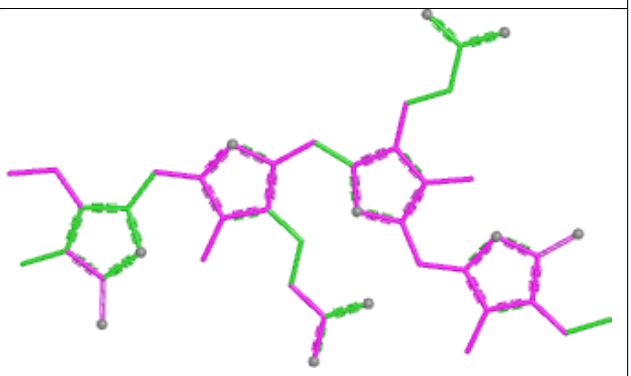


Rings

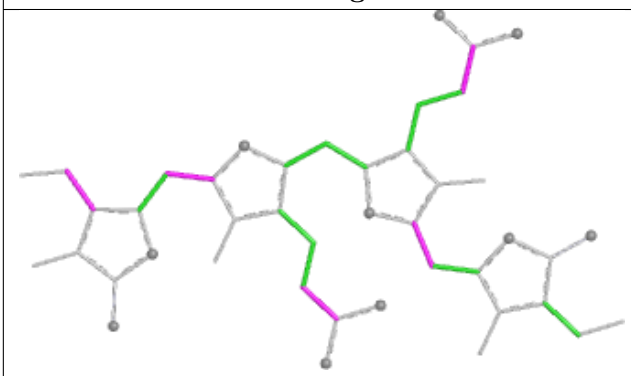
Ligand CYC F9 302



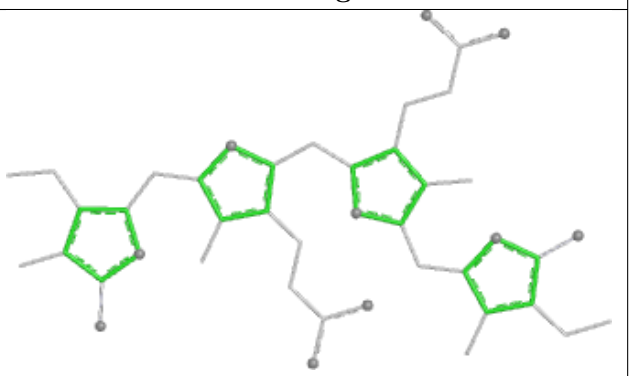
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Bond angles

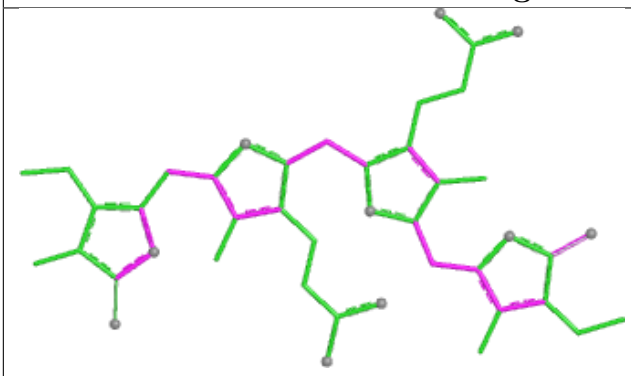


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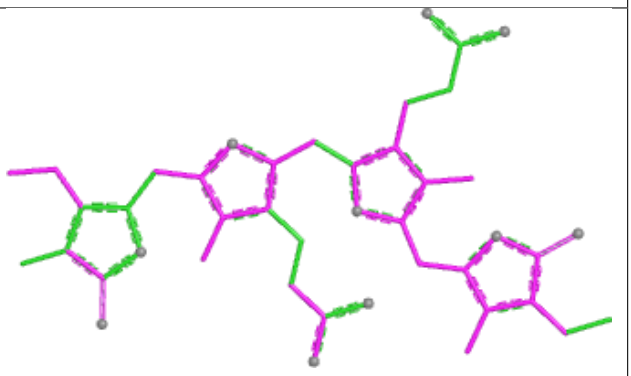


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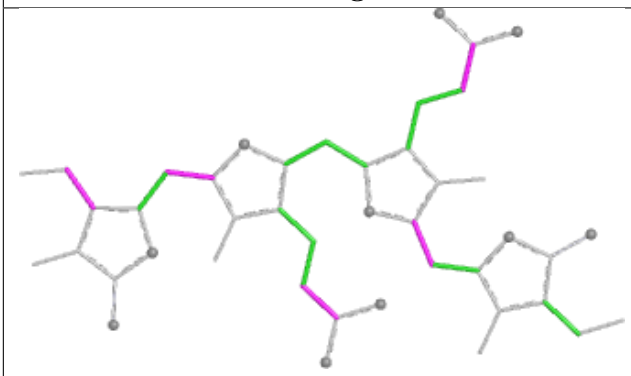
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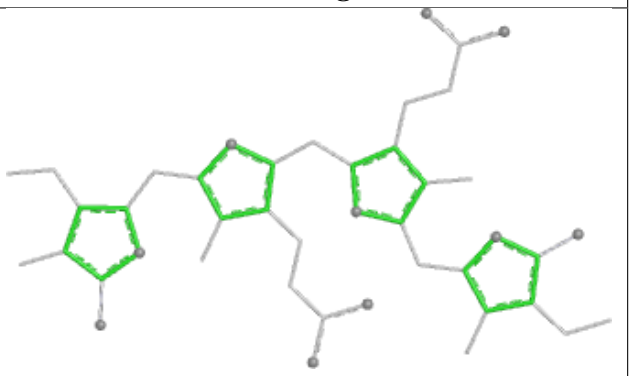
Bond lengths



Bond angles

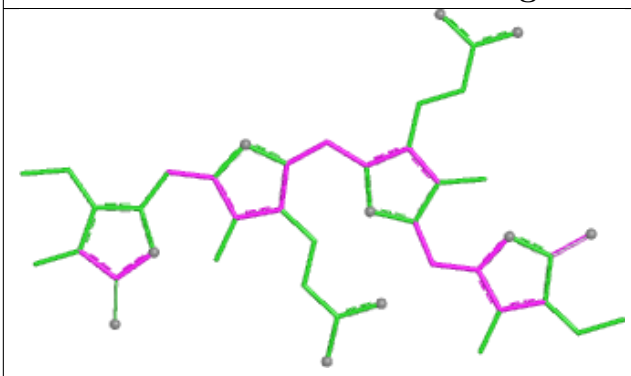


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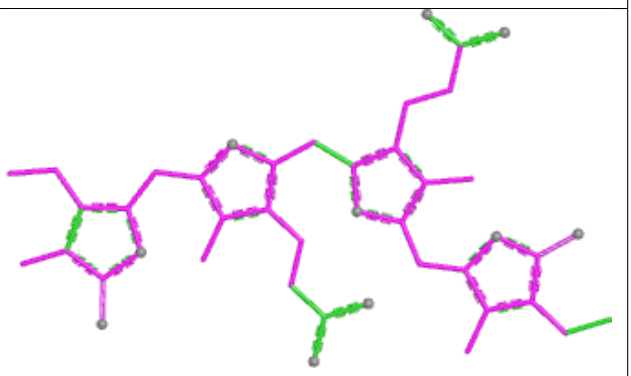


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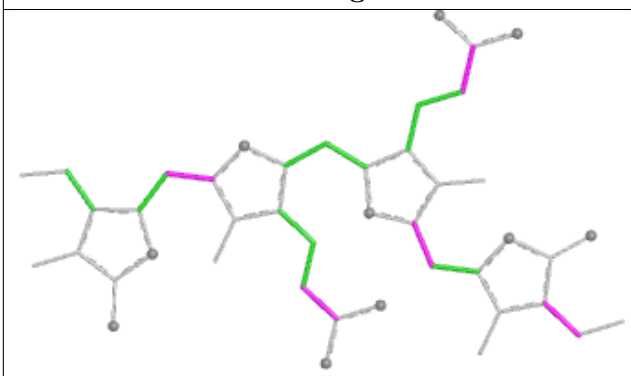
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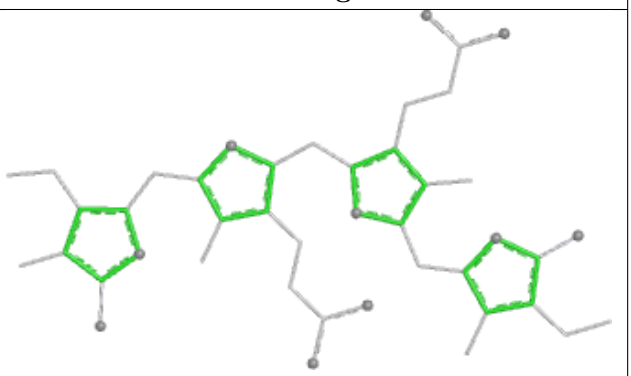
Bond lengths



Bond angles

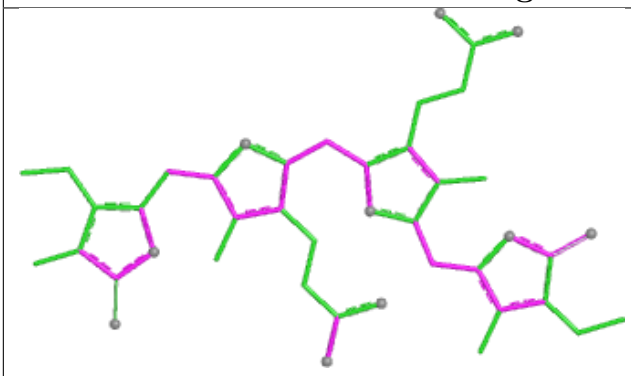


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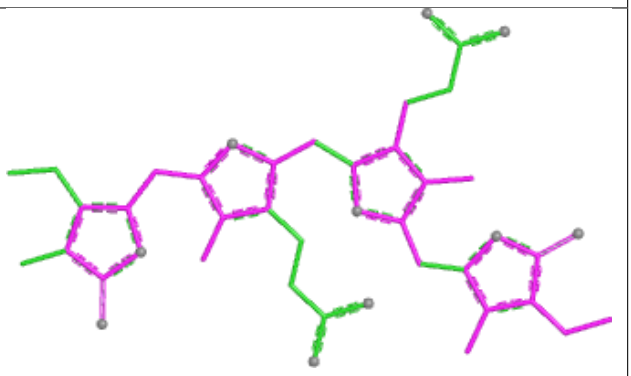


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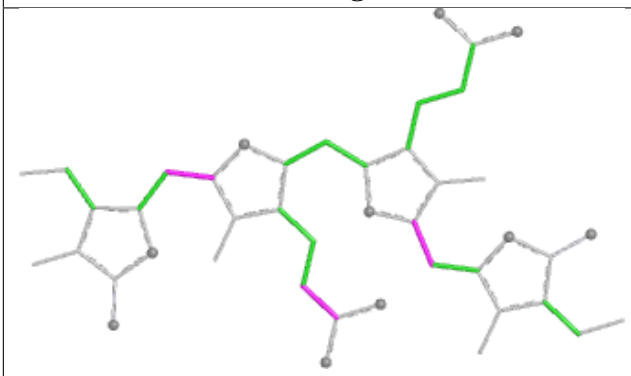
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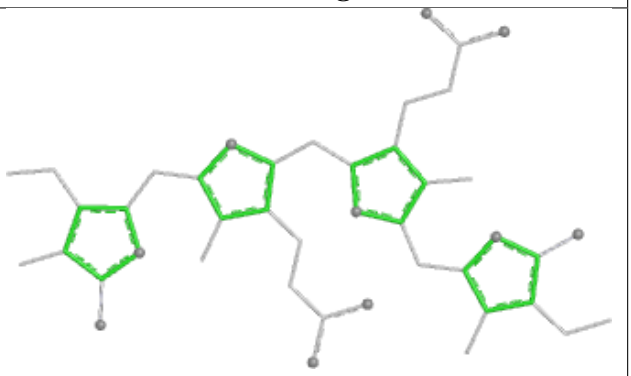
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Bond angles

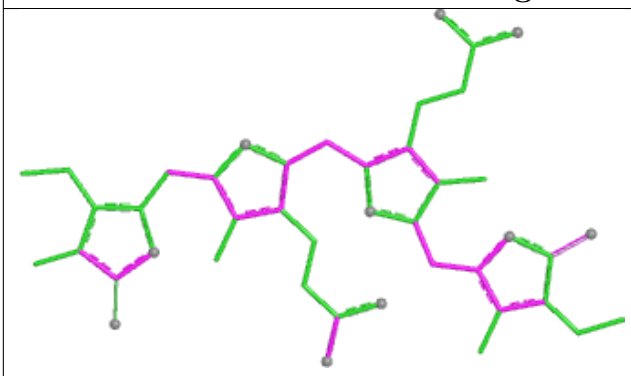


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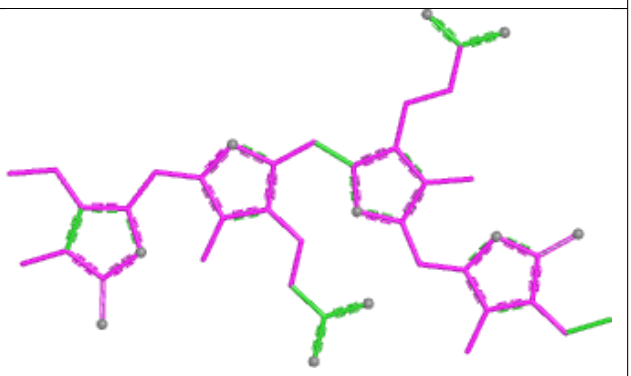


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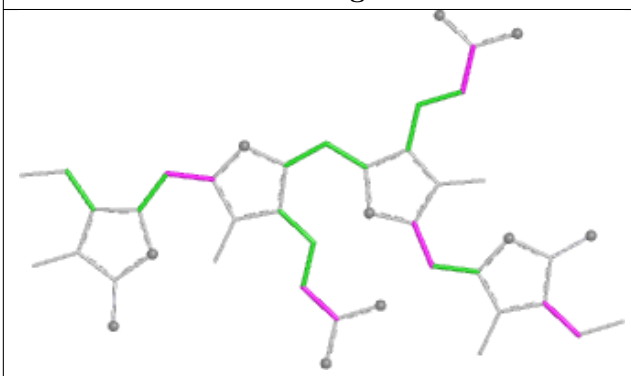
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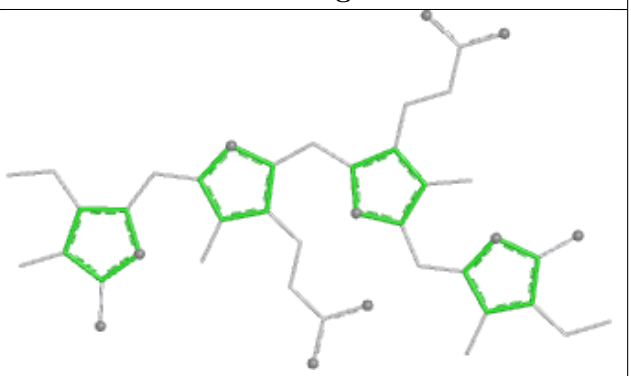
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Bond angles

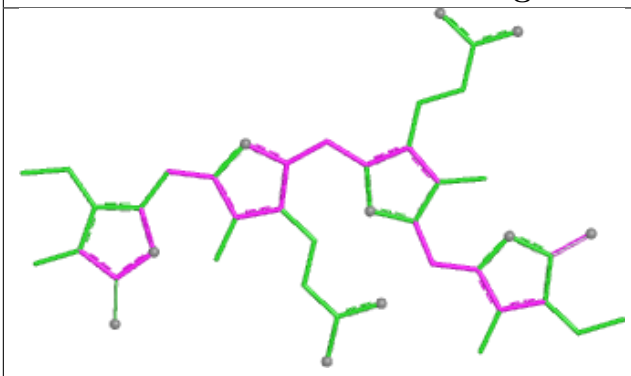


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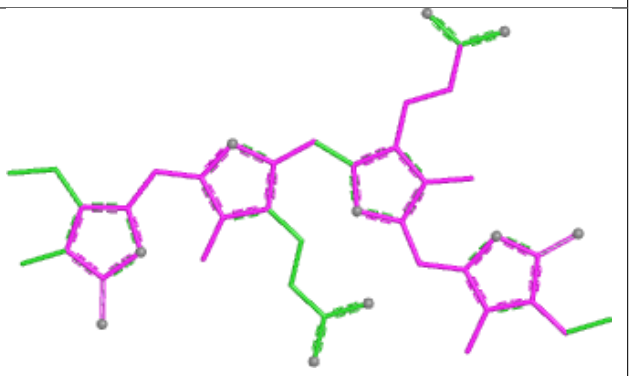


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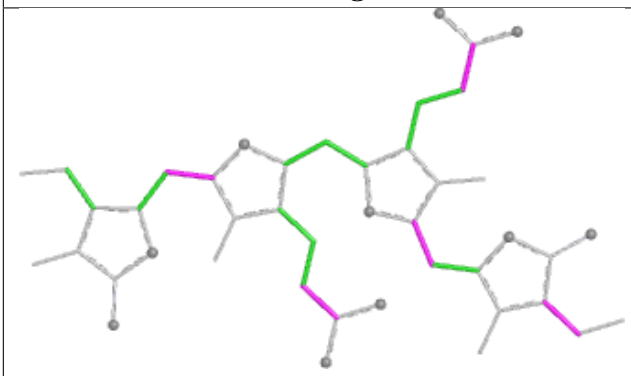
Ligand CYC T7 201



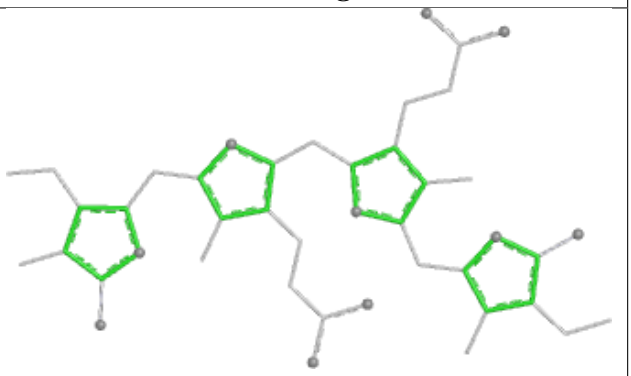
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Bond angles

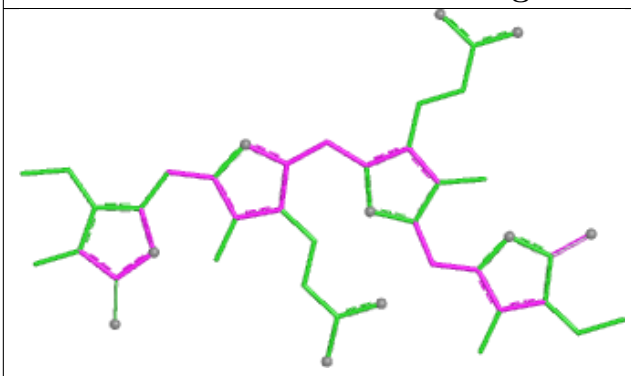


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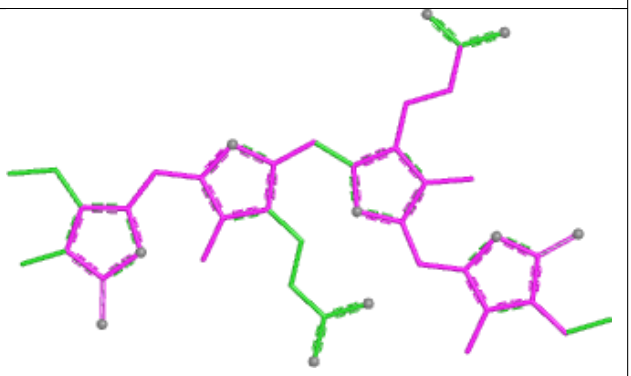


Rings

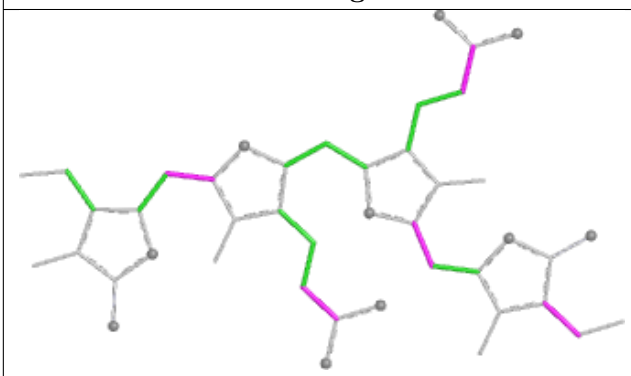
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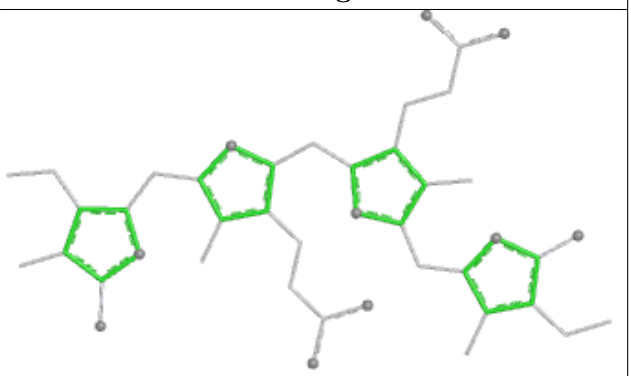
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Bond angles

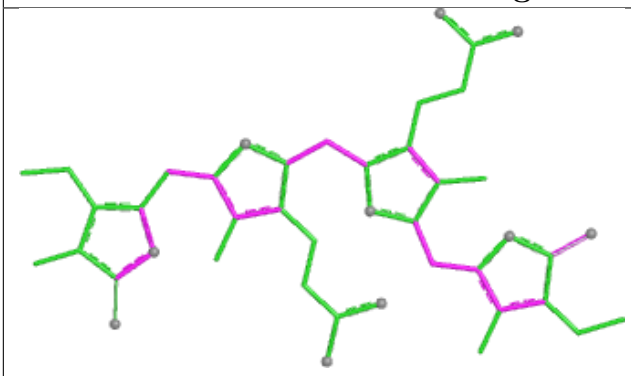


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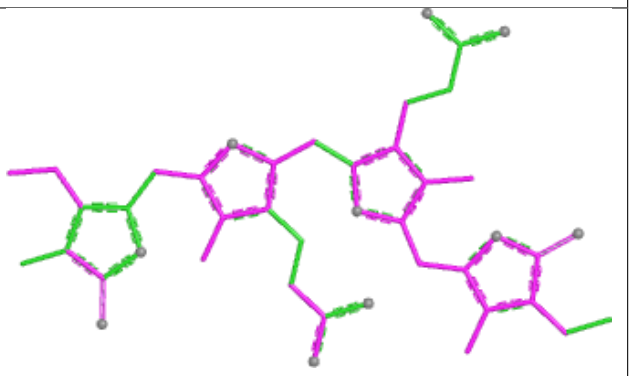


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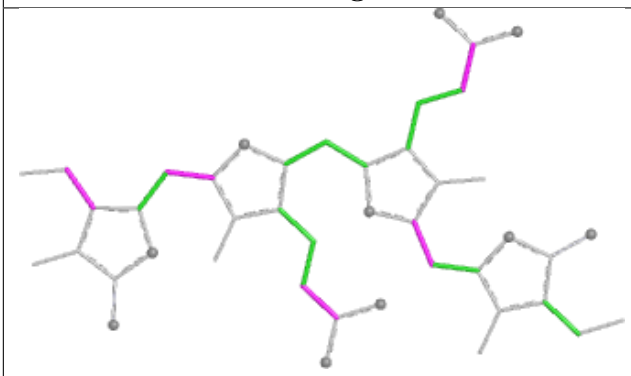
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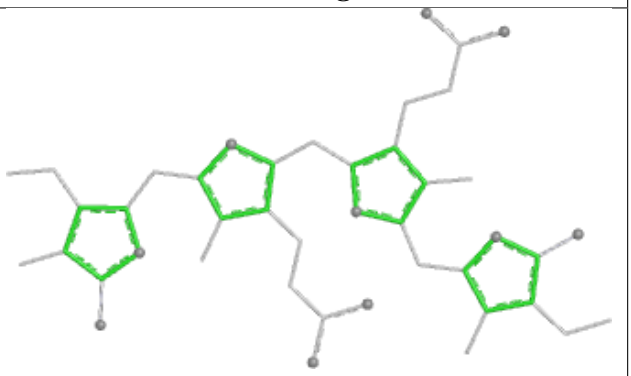
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Bond angles

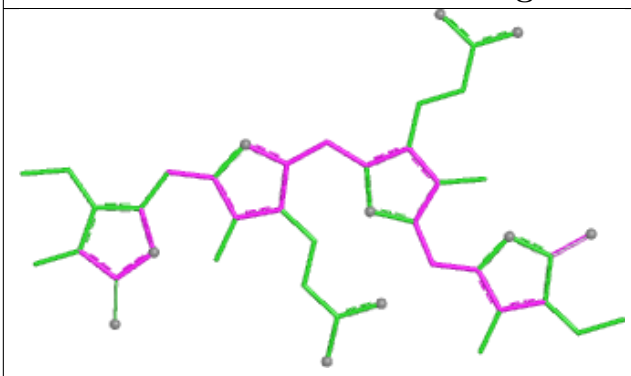


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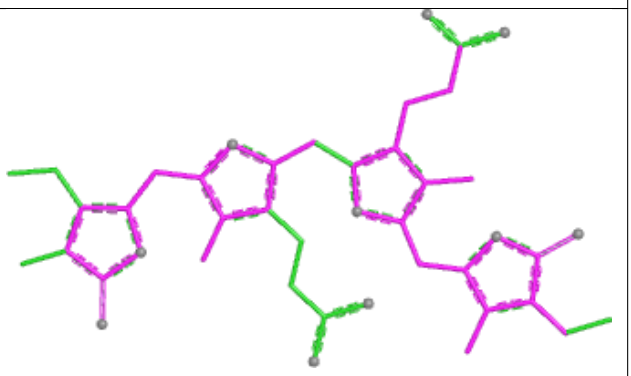


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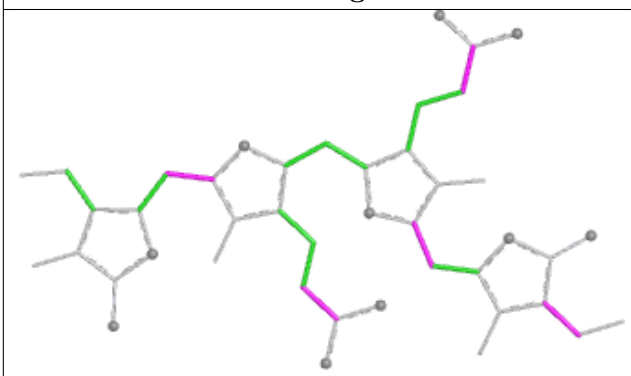
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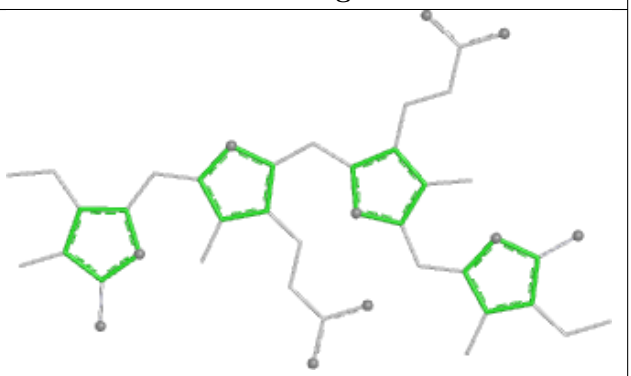
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Bond angles

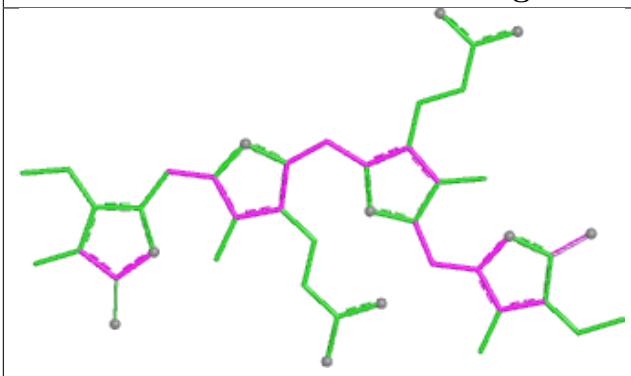


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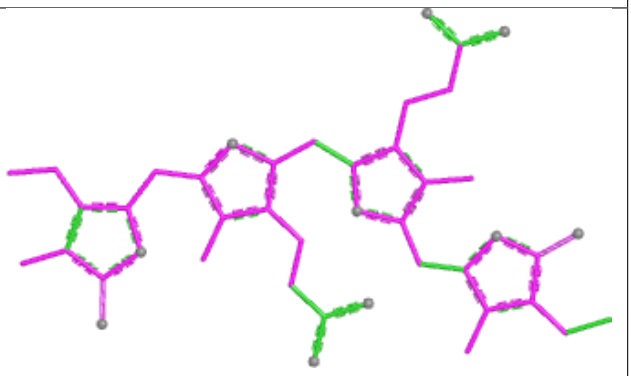


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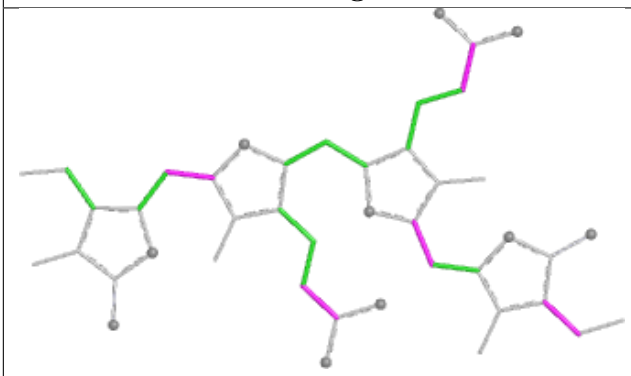
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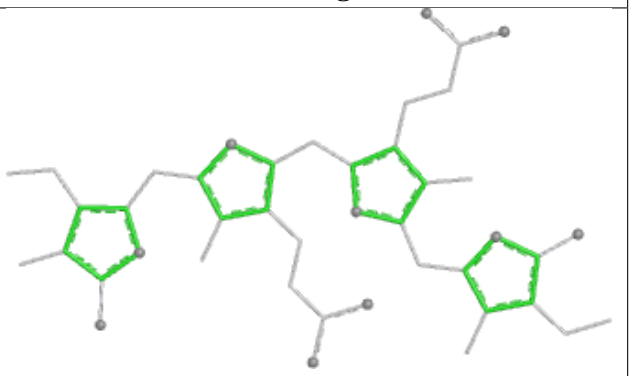
Bond lengths



Bond angles

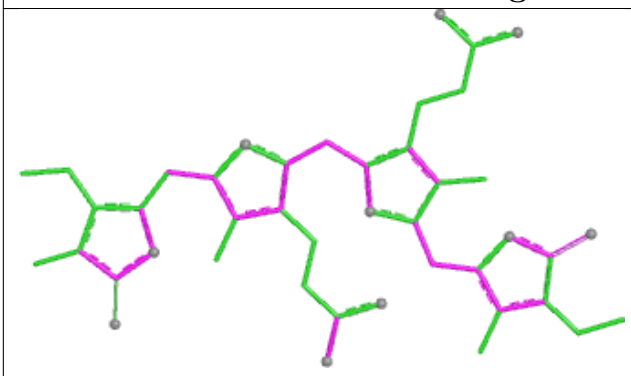


Torsions

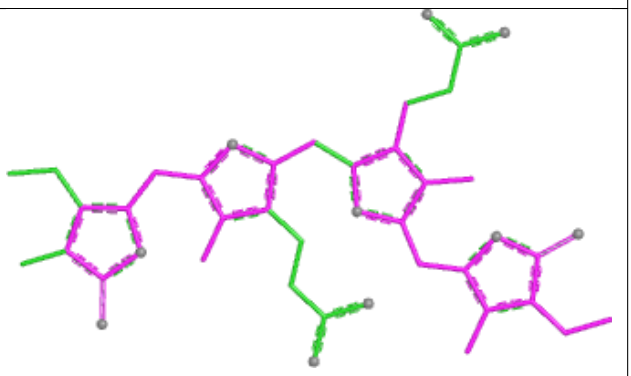


Rings

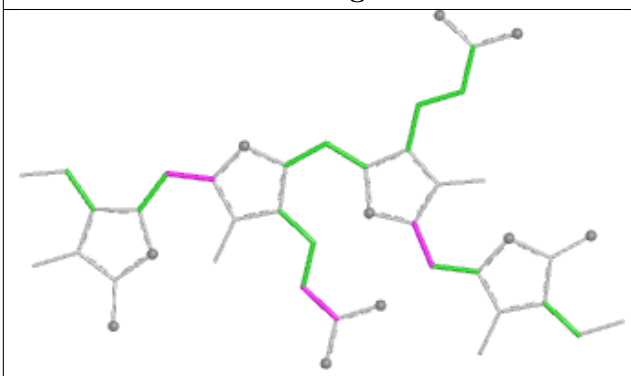
Ligand CYC M8 301



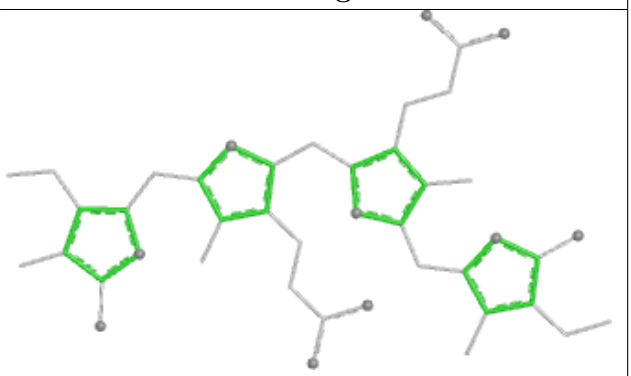
Bond lengths



Bond angles

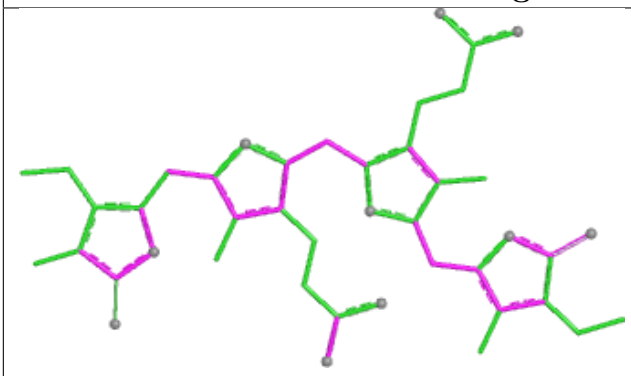


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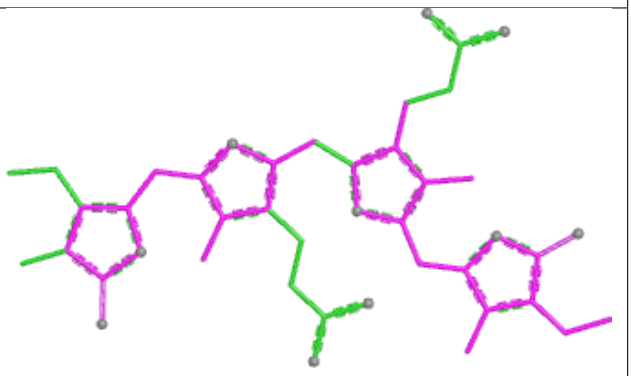


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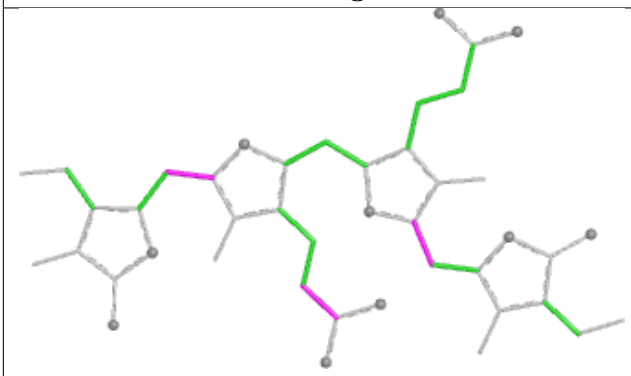
Ligand CYC O4 201



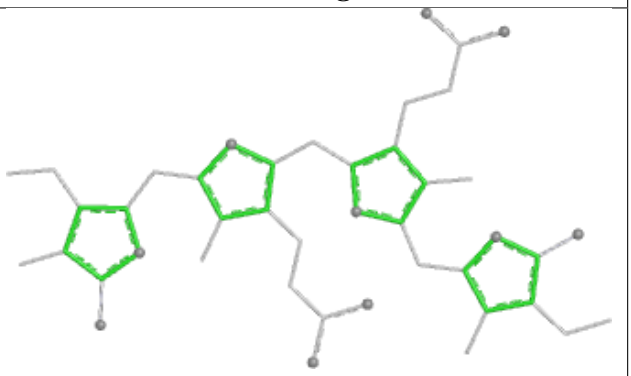
Bond lengths



Bond angles

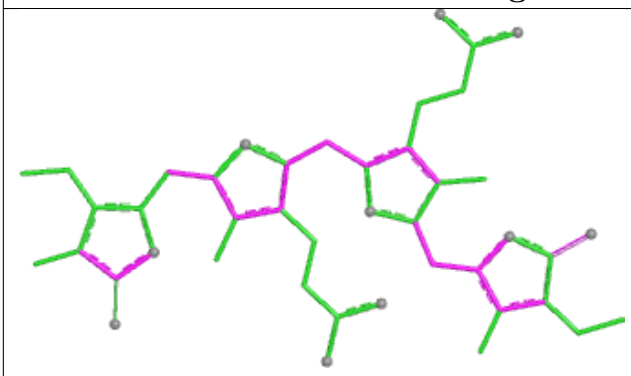


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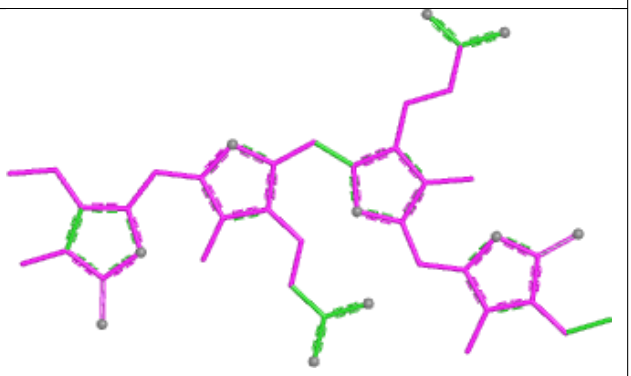


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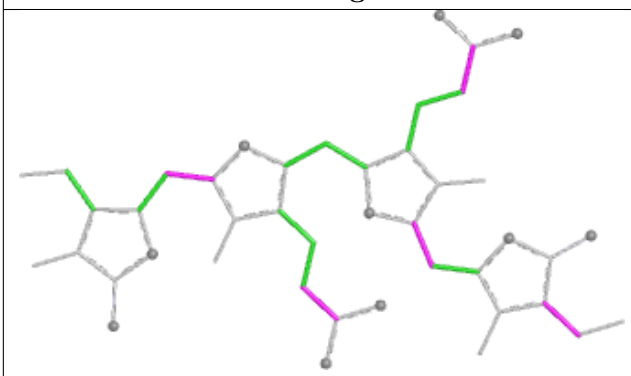
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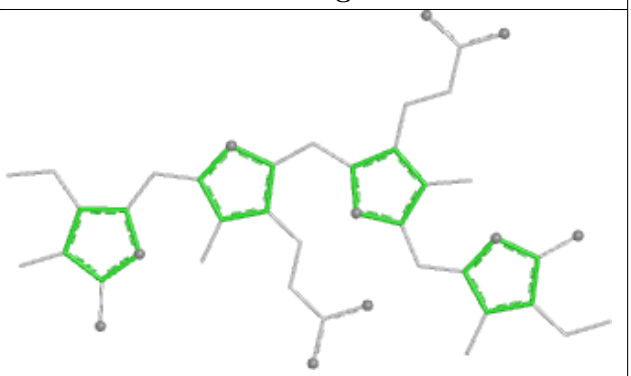
Bond lengths



Bond angles

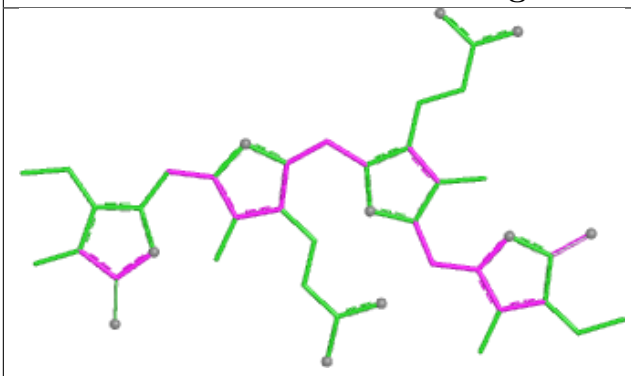


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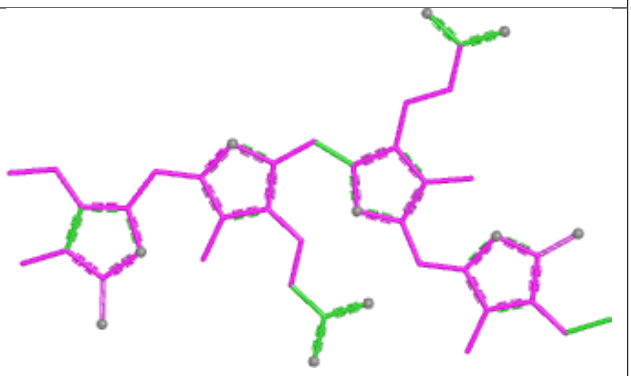


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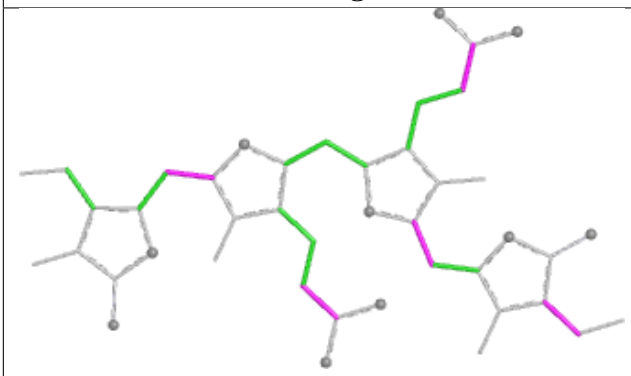
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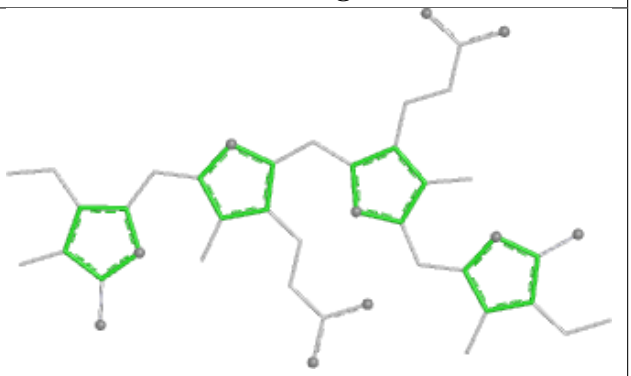
Bond lengths



Bond angles

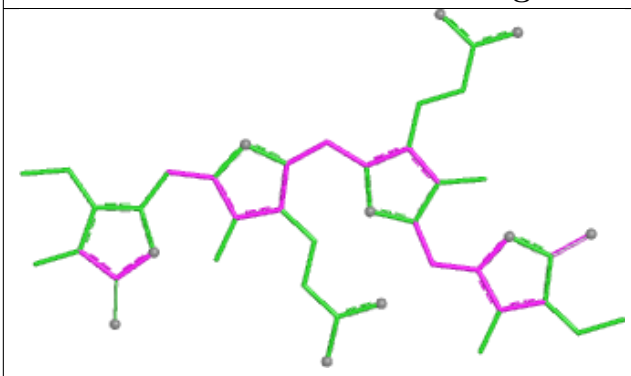


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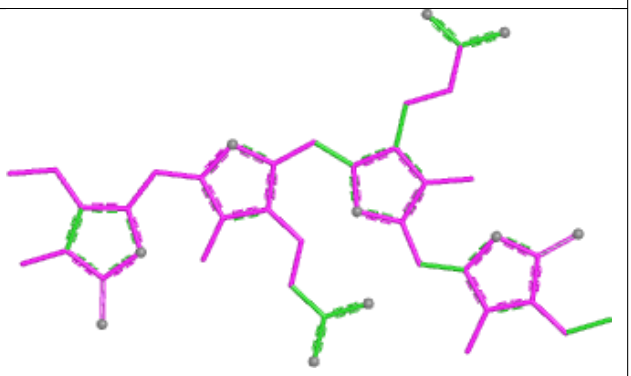


Rings

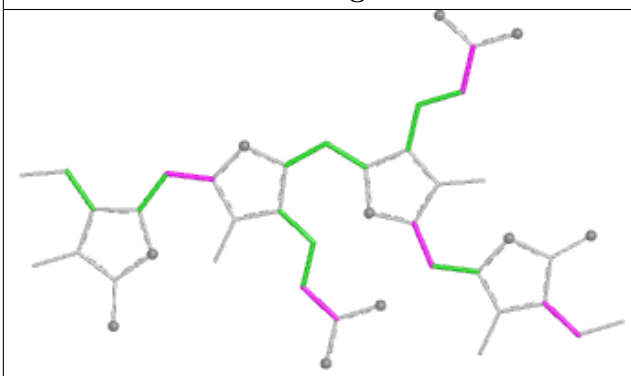
Ligand CYC C2 201



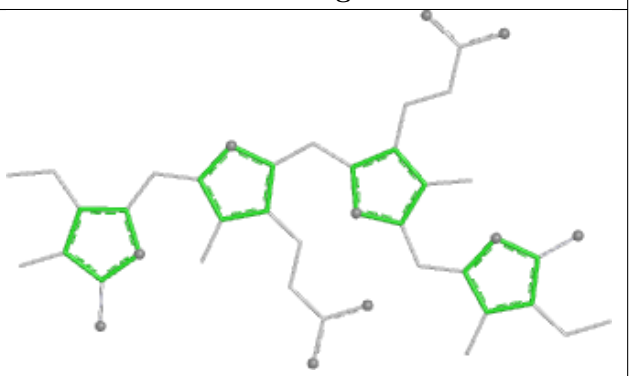
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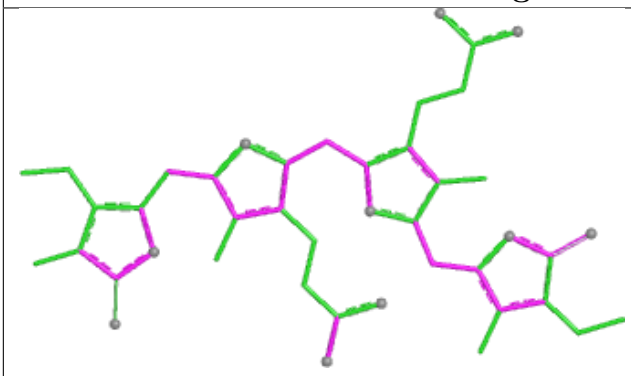


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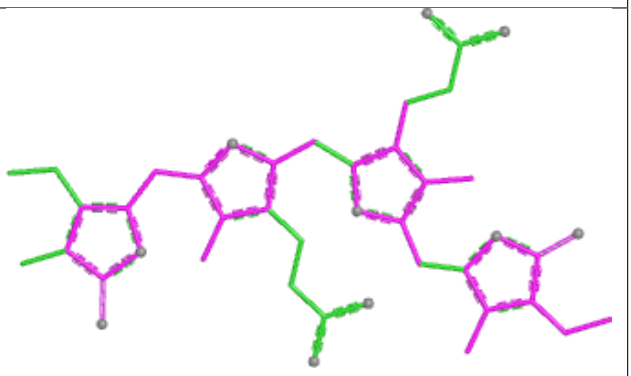


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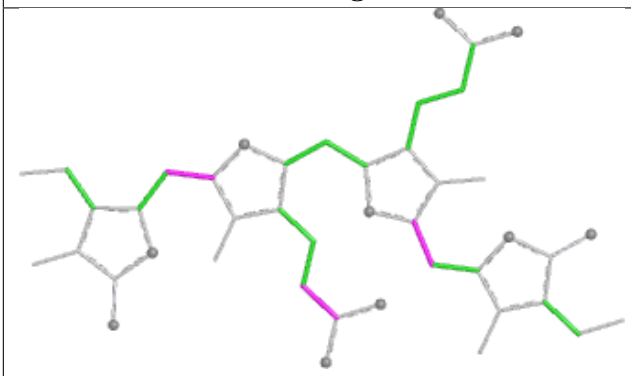
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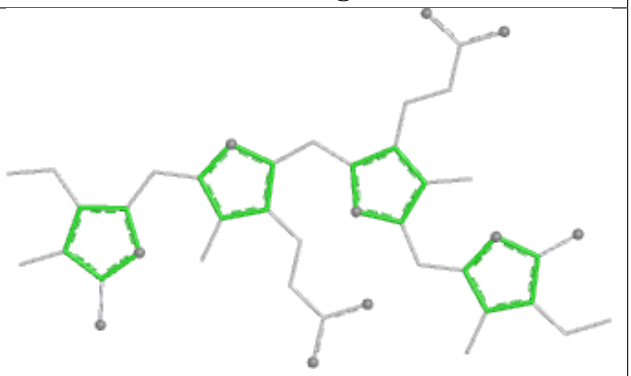
Bond lengths



Bond angles

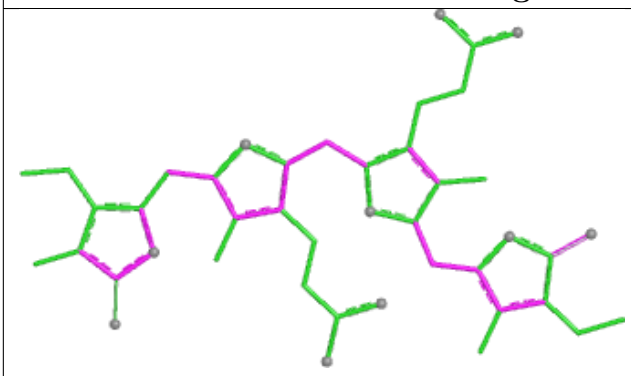


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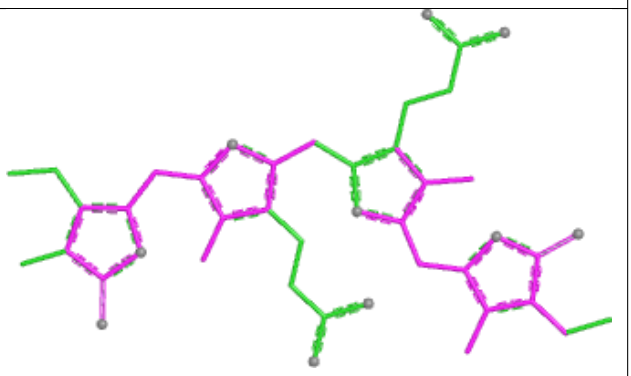


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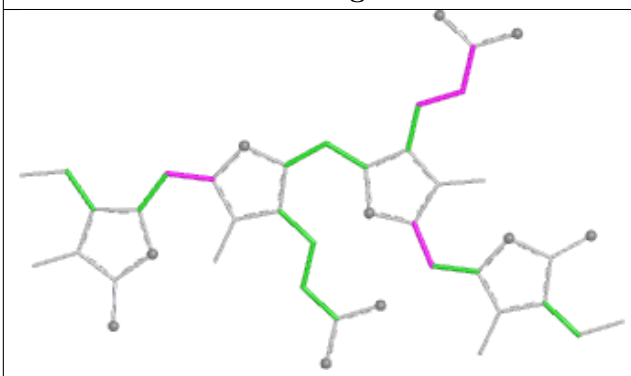
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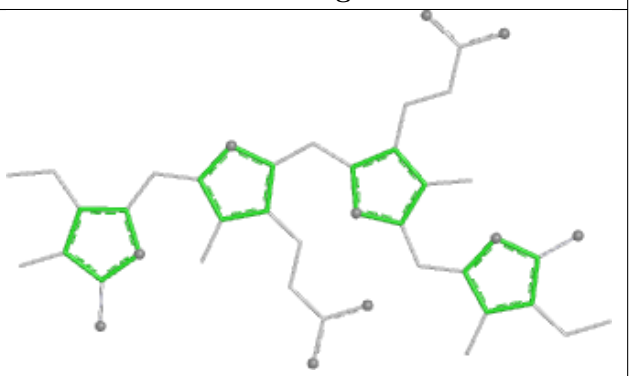
Bond lengths



Bond angles

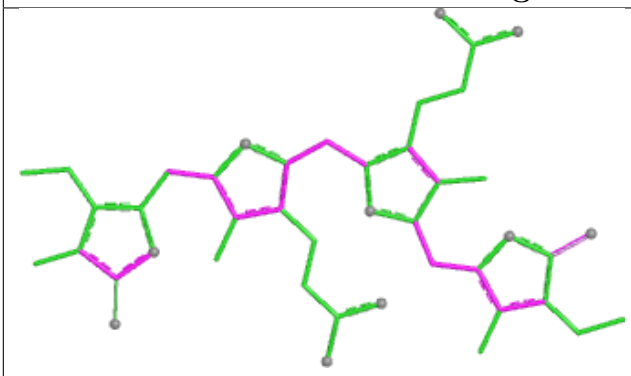


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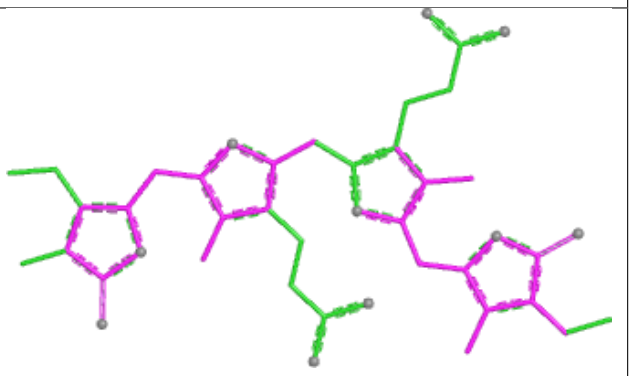


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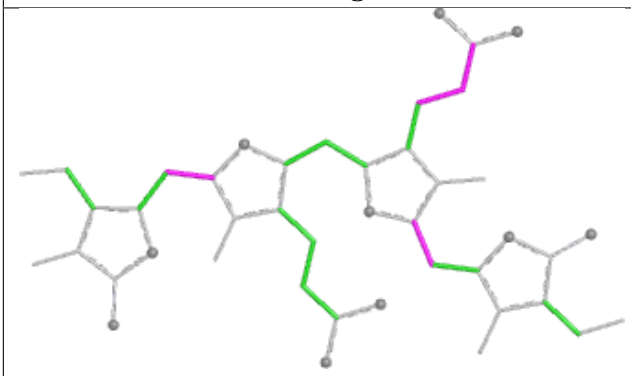
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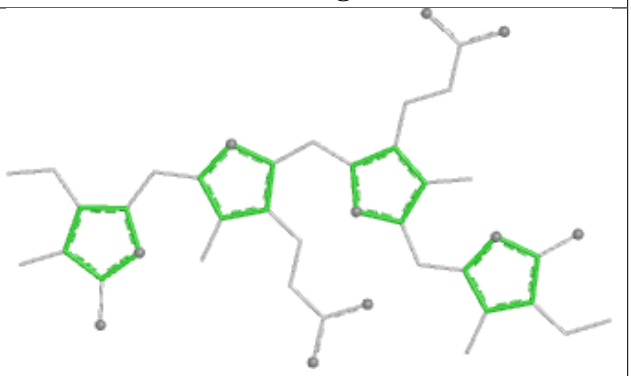
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Bond angles

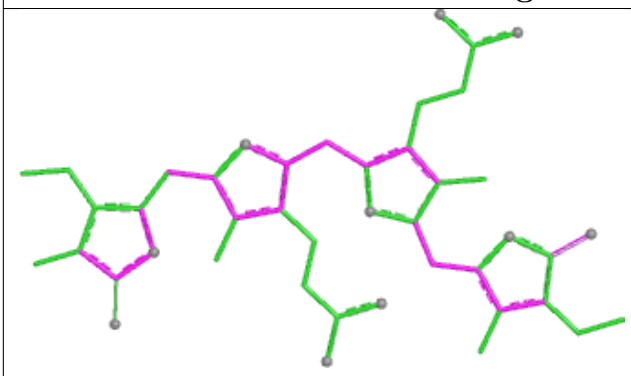


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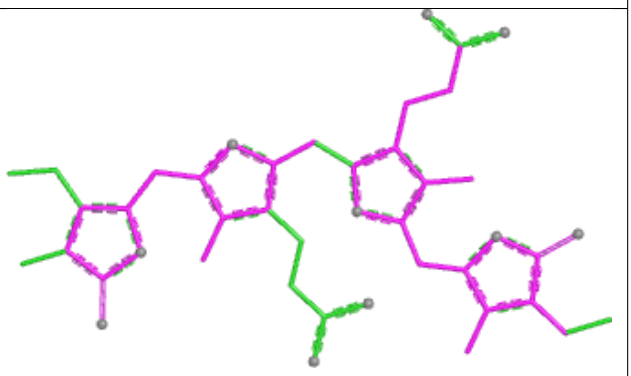


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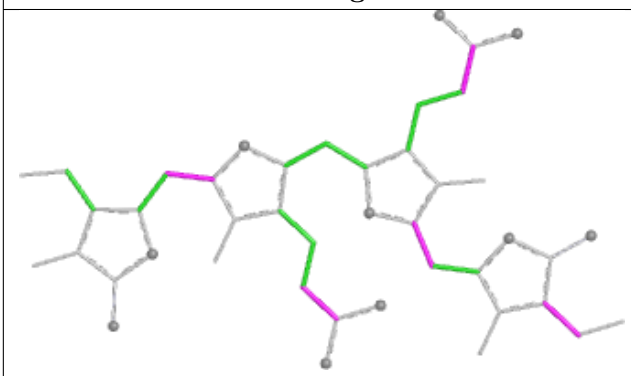
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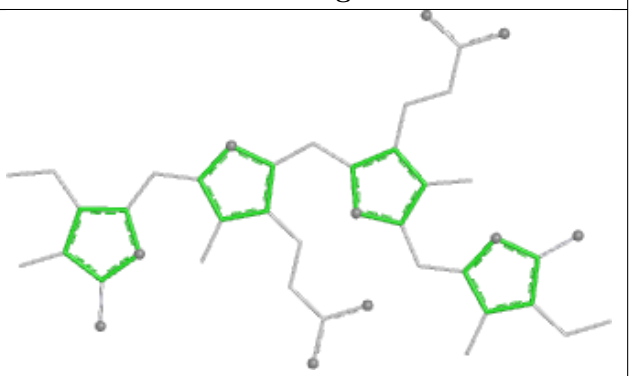
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Bond angles

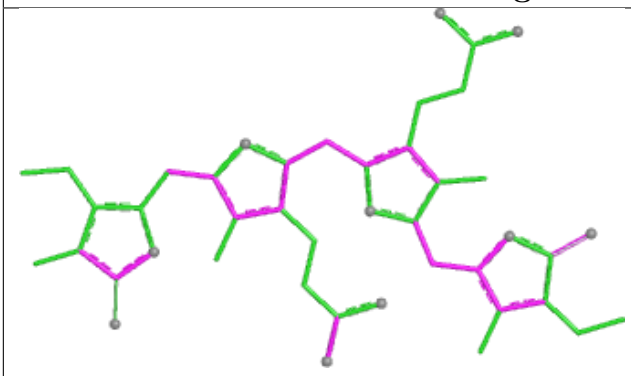


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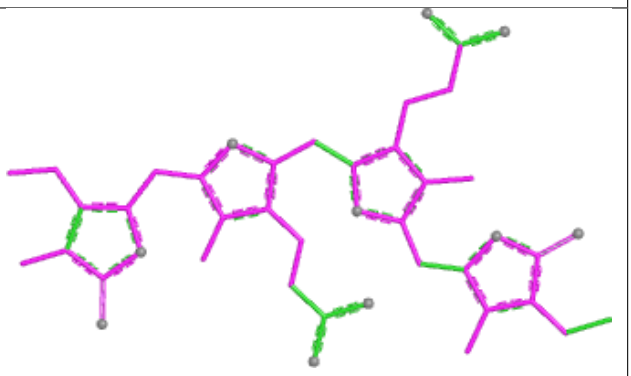


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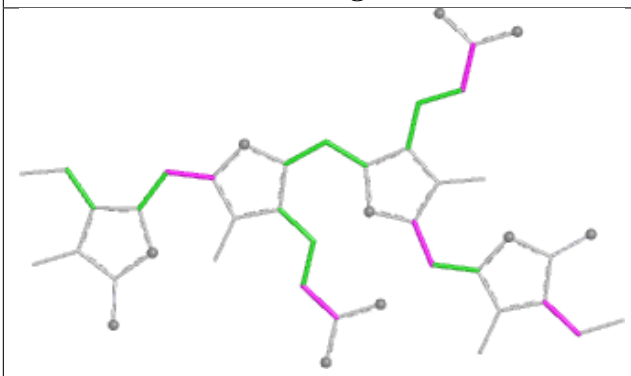
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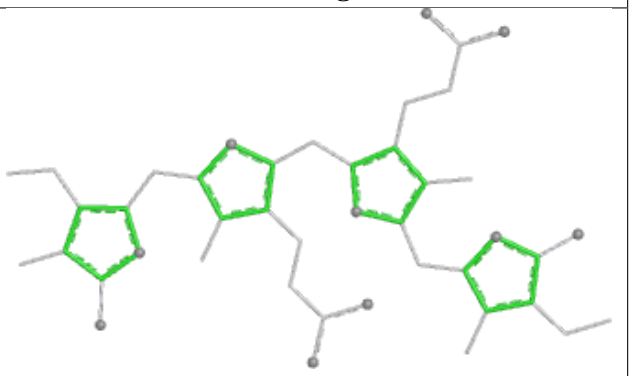
Bond lengths



Bond angles

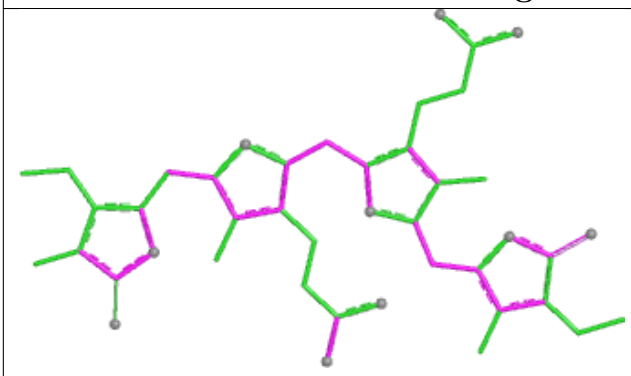


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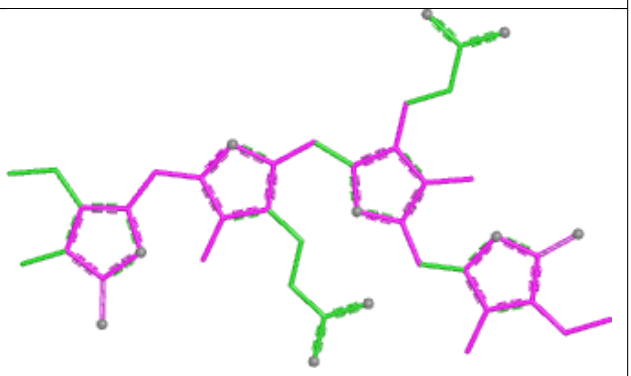


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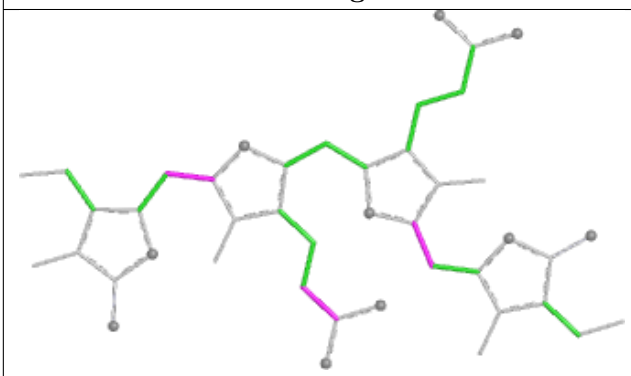
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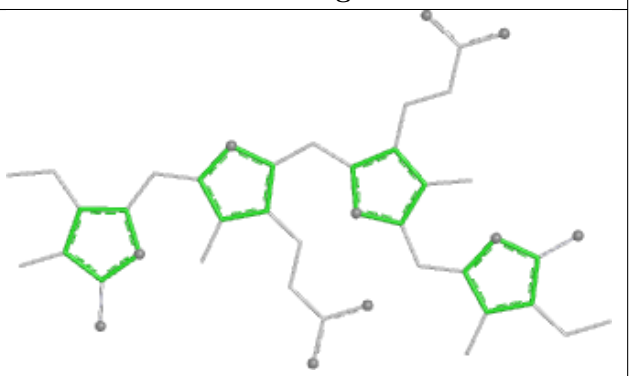
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Bond angles

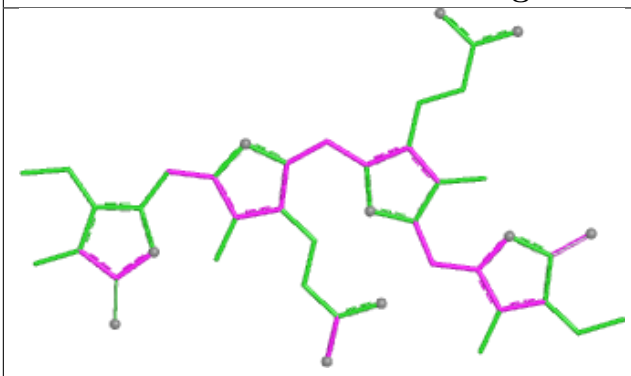


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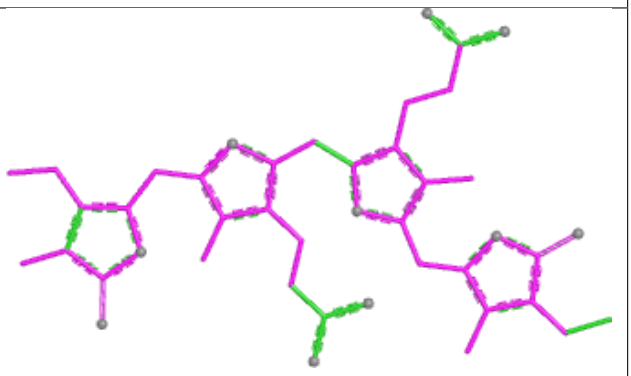


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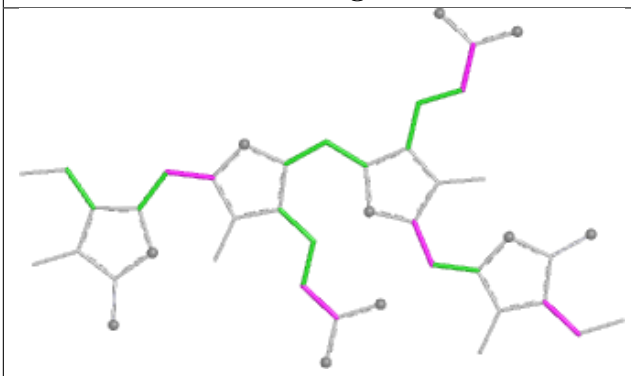
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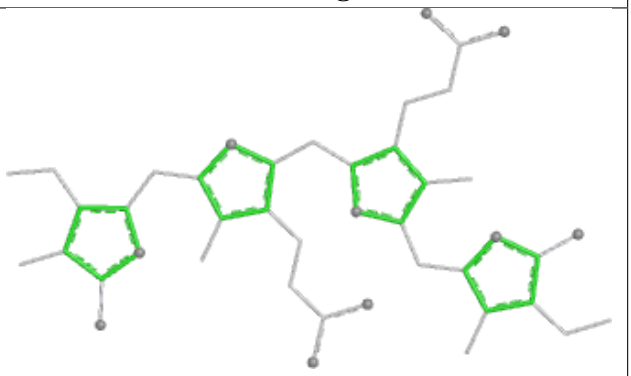
Bond lengths



Bond angles

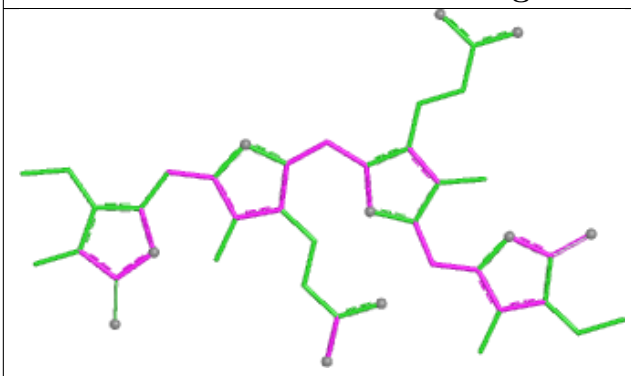


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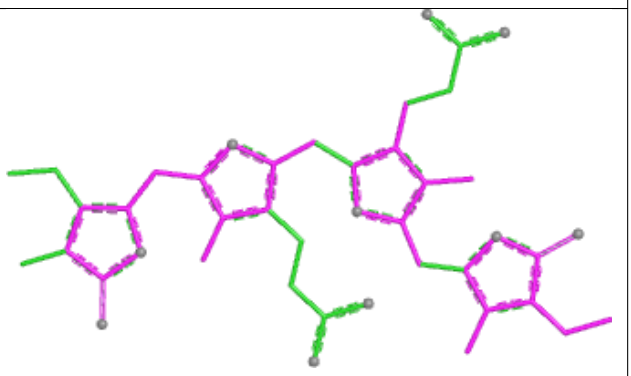


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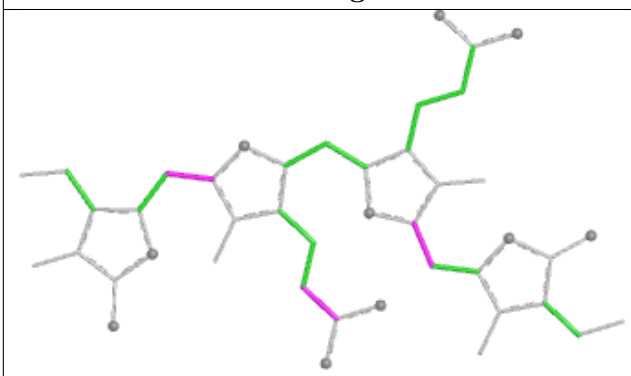
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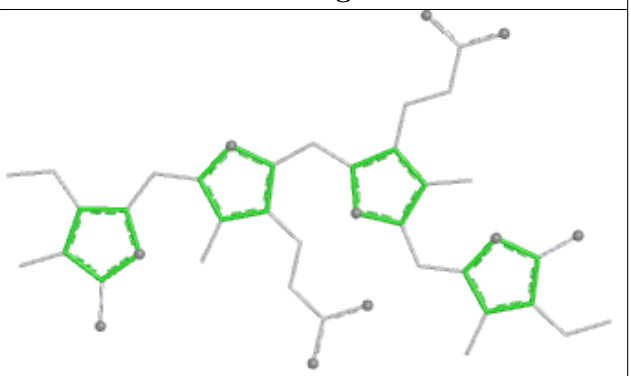
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Bond angles

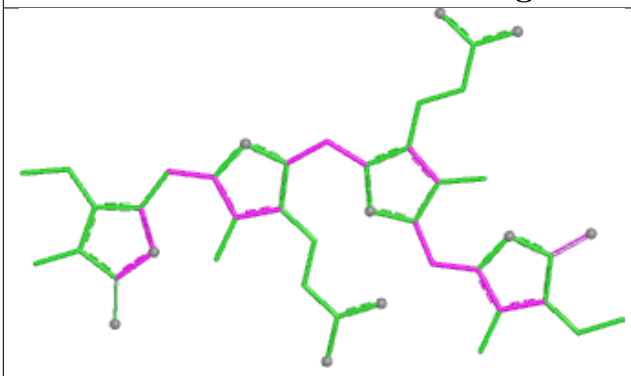


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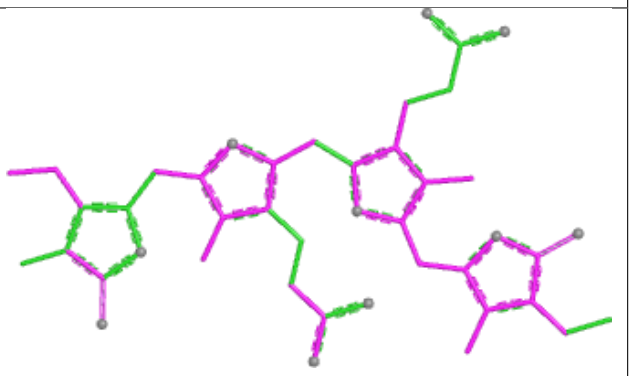


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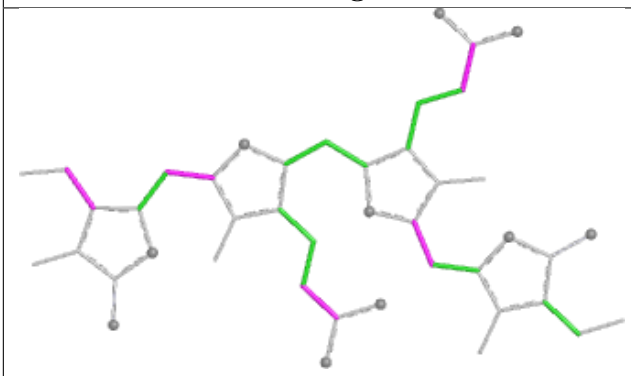
Ligand CYC L9 201



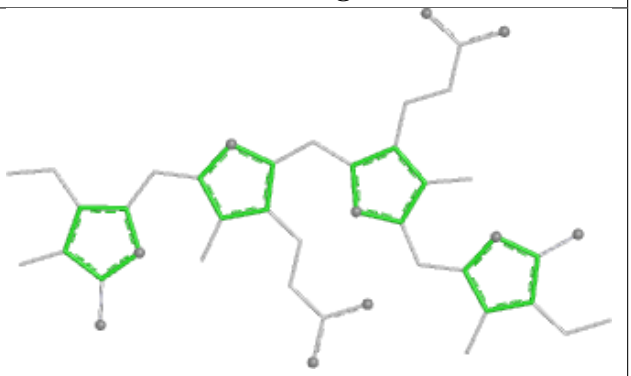
Bond lengths



Bond angles

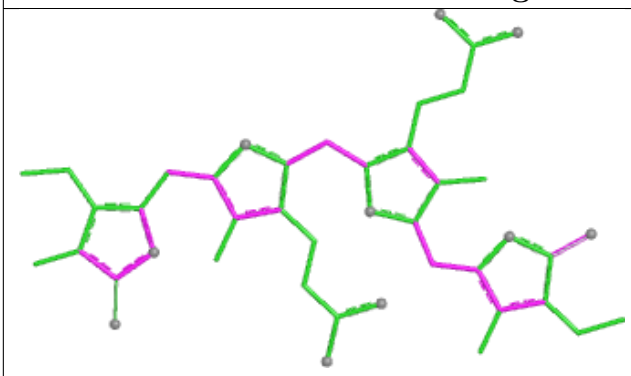


Torsions

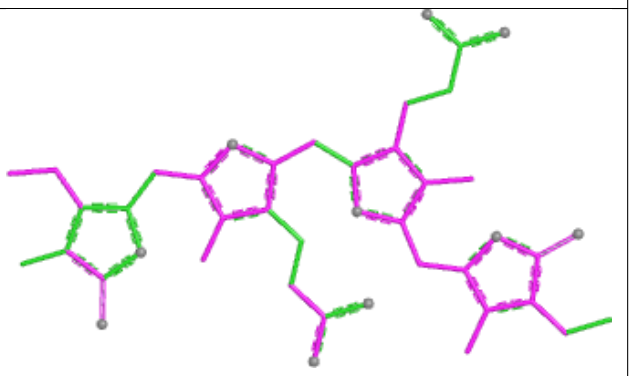


Rings

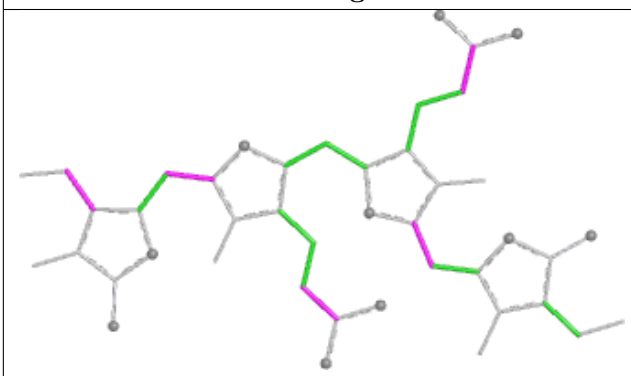
Ligand CYC H1 202



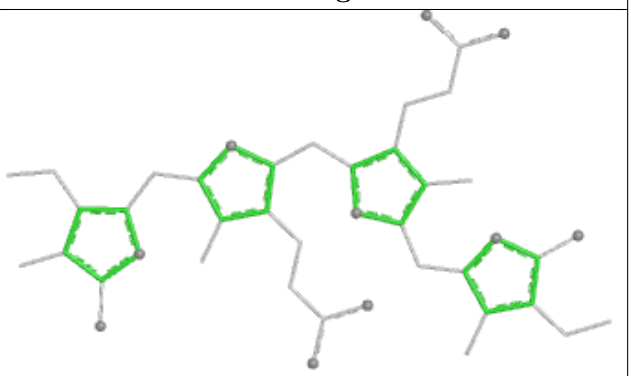
Bond lengths



Bond angles

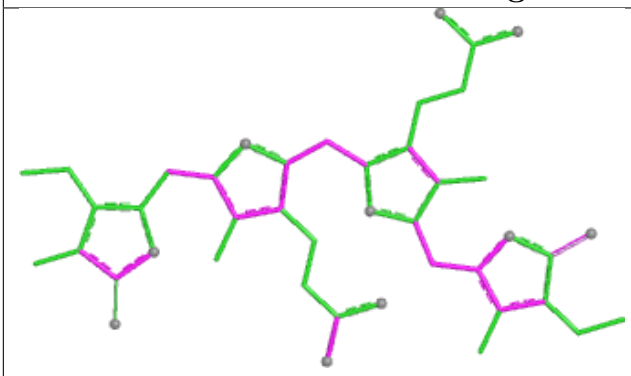


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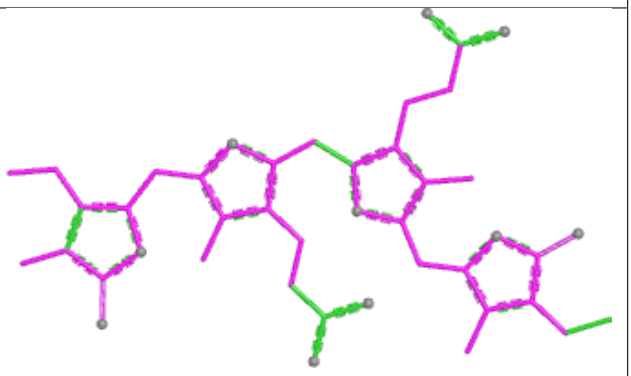


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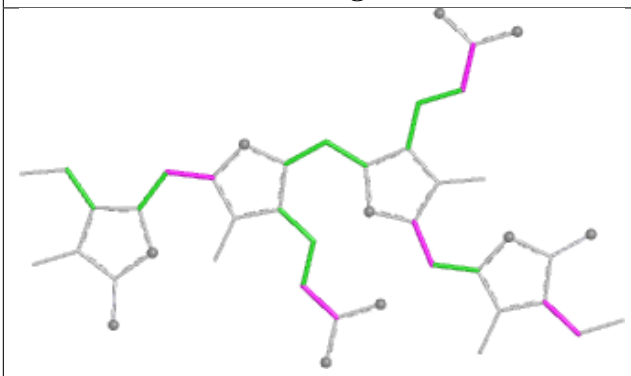
Ligand CYC W9 201



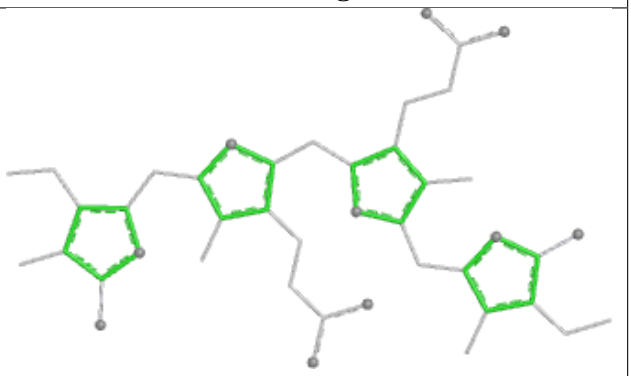
Bond lengths



Bond angles

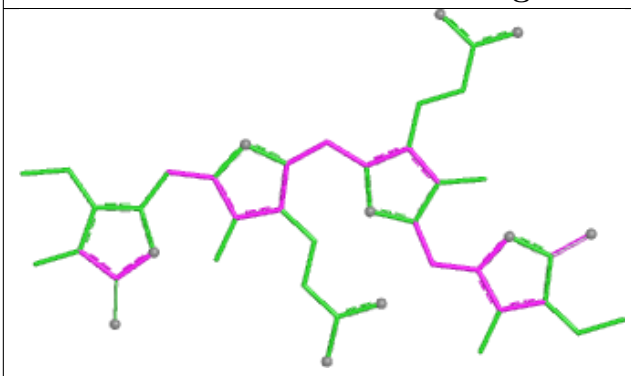


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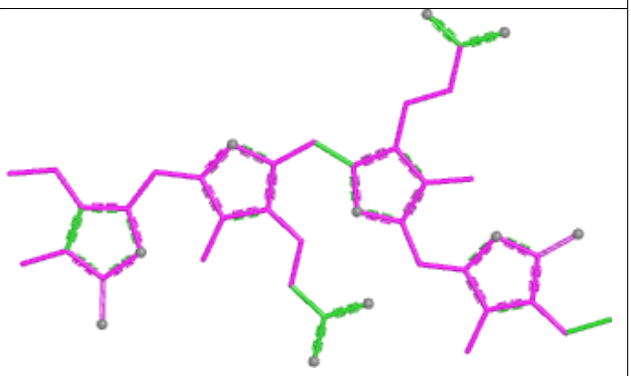


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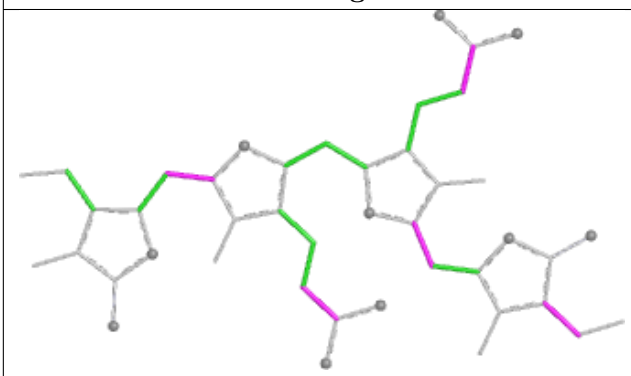
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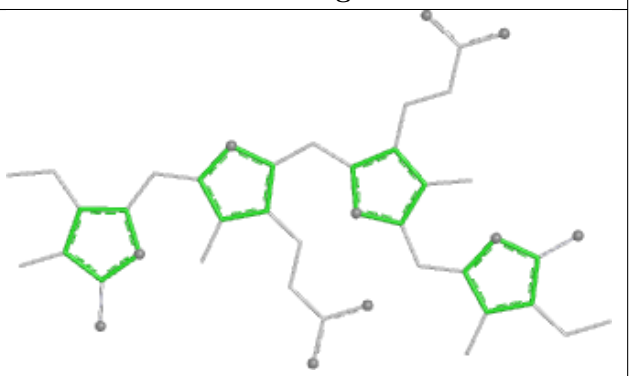
Bond lengths



Bond angles

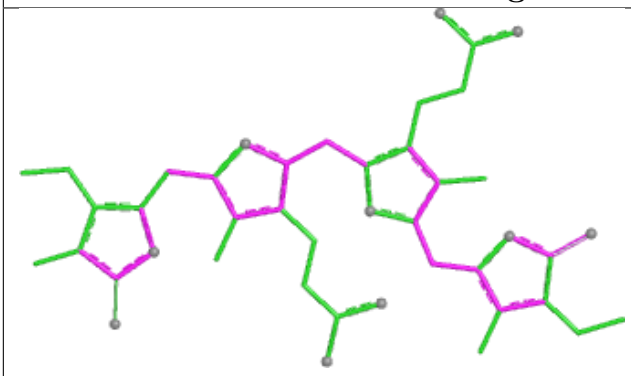


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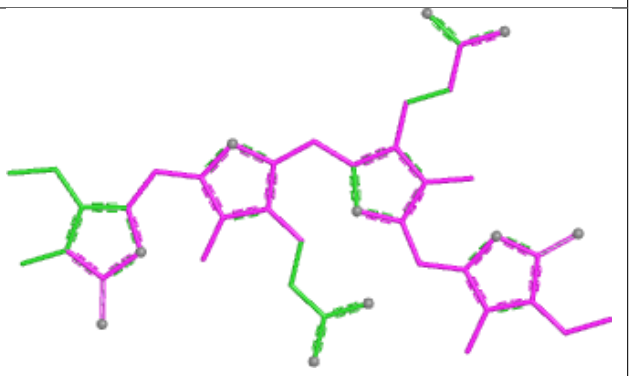


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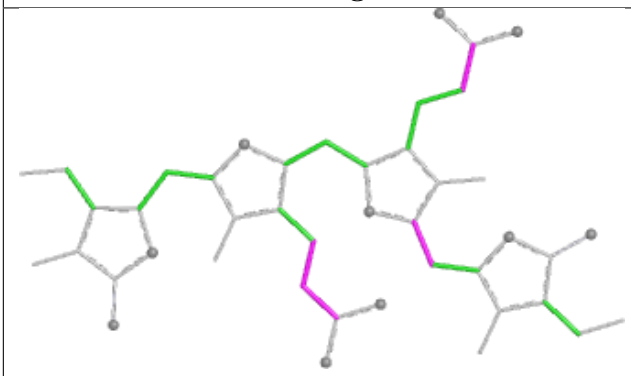
Ligand CYC k5 1201



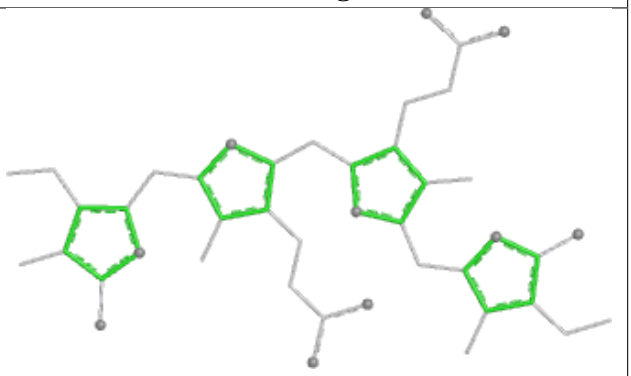
Bond lengths



Bond angles

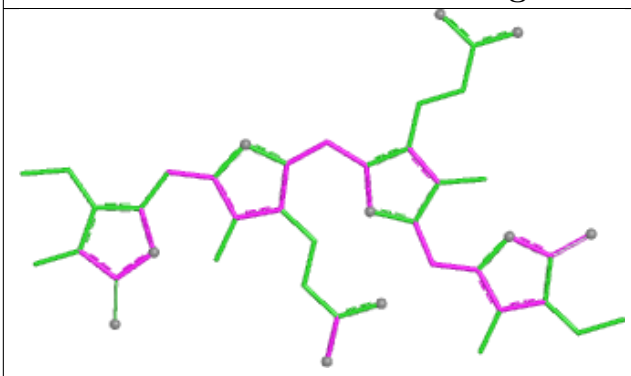


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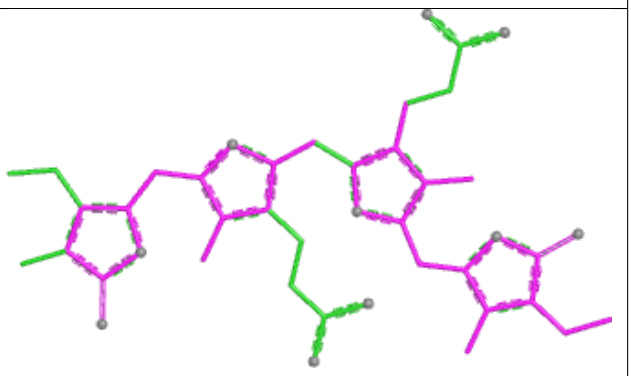


Rings

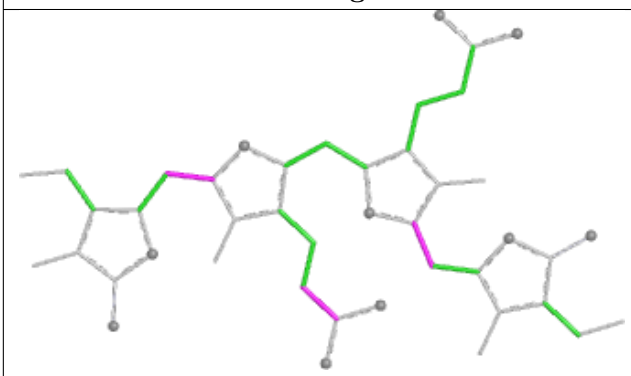
Ligand CYC M4 301



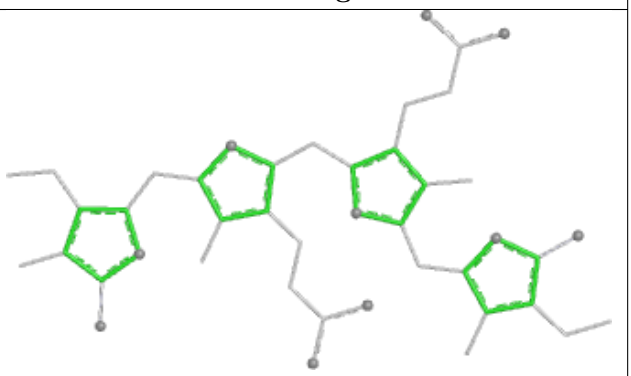
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Bond angles

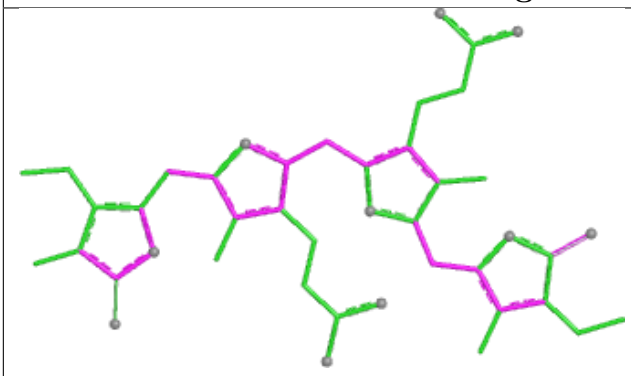


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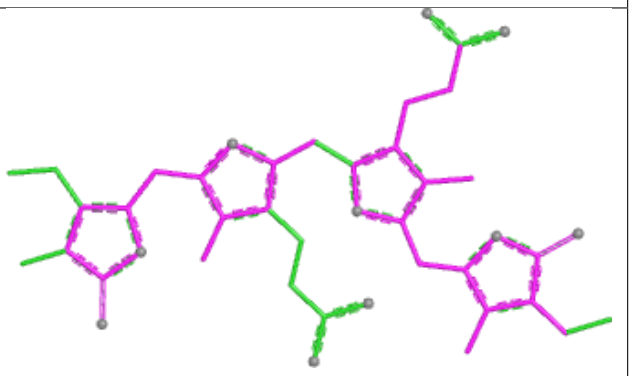


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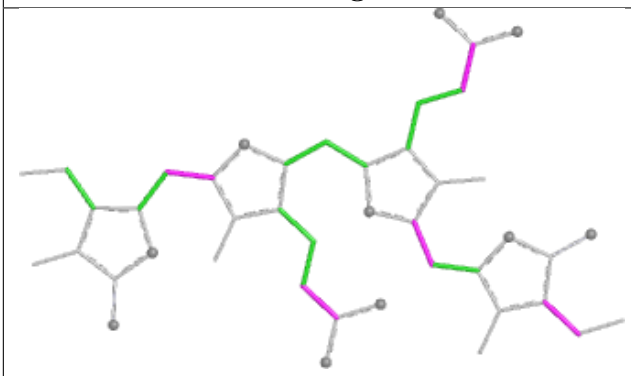
Ligand CYC L7 201



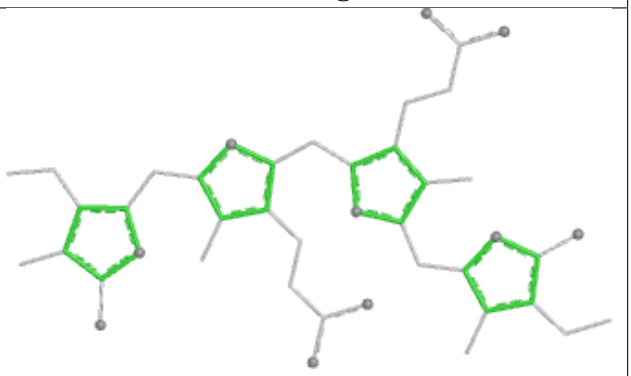
Bond lengths



Bond angles

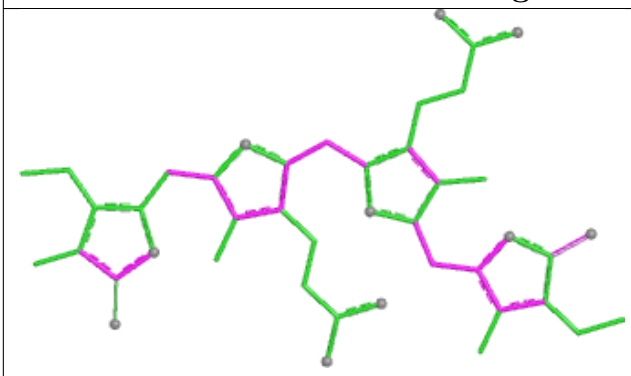


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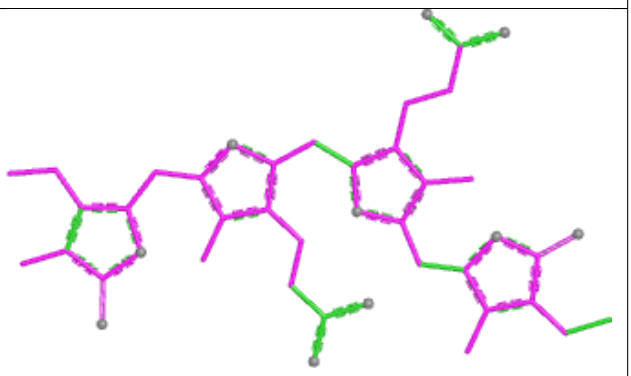


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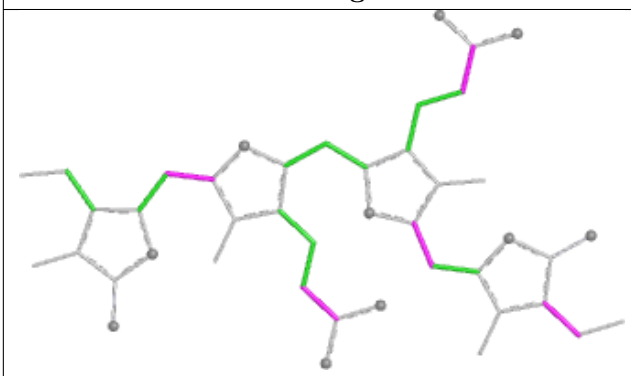
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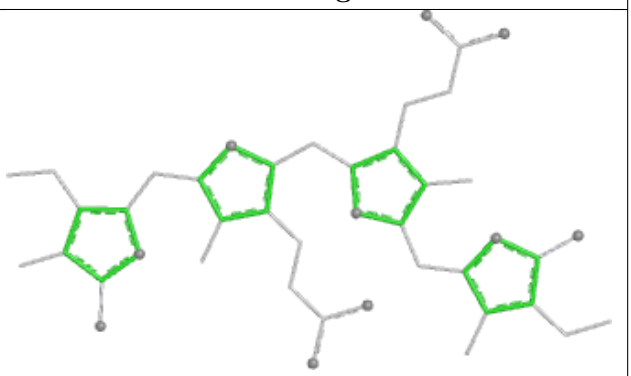
Bond lengths



Bond angles

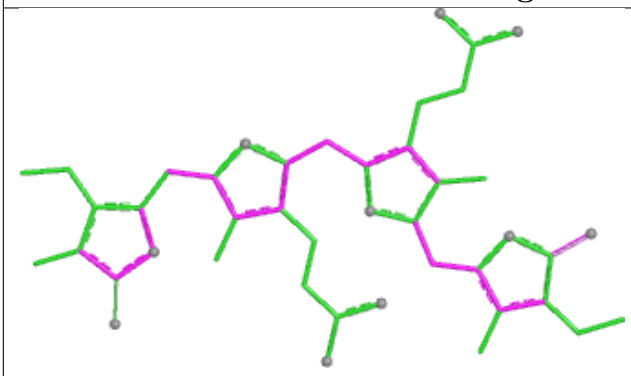


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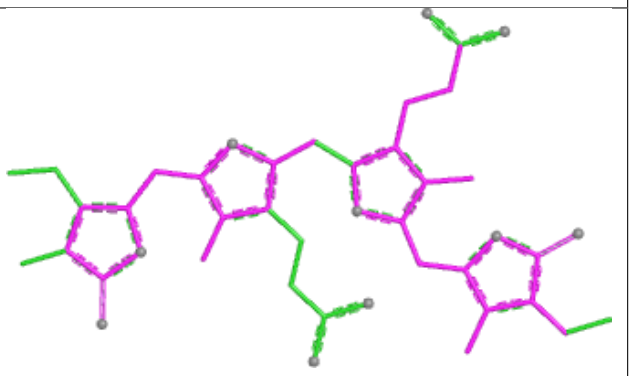


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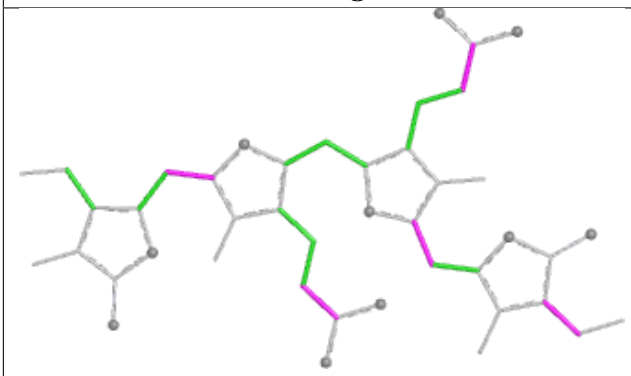
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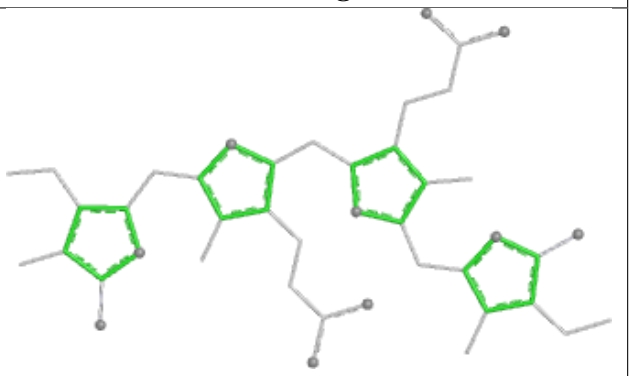
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Bond angles

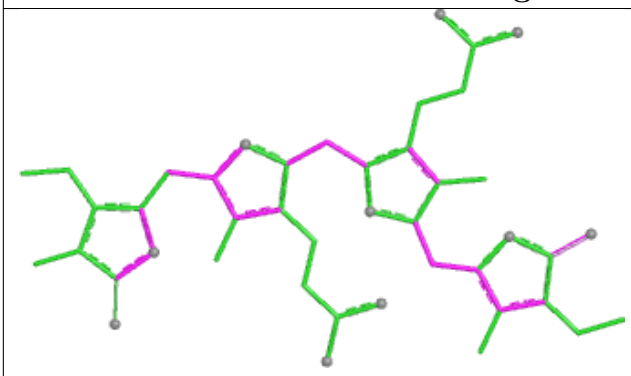


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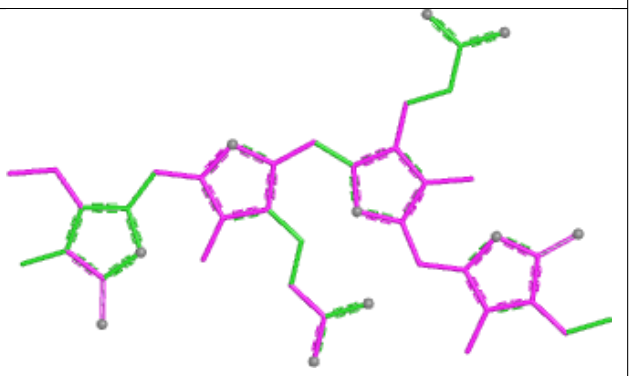


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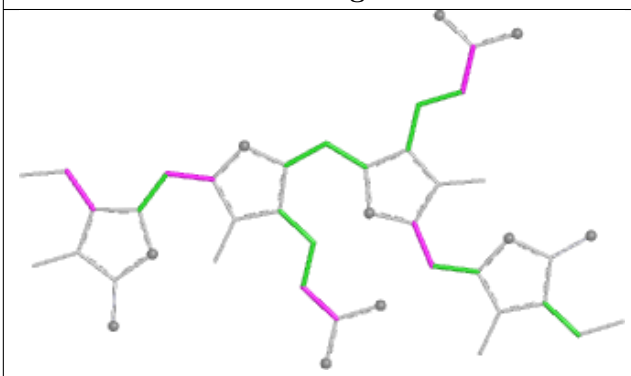
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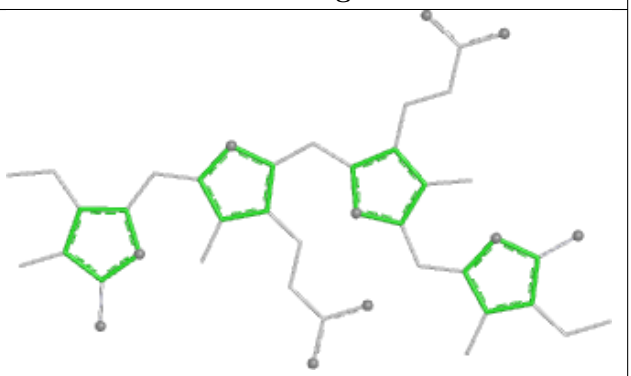
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Bond angles

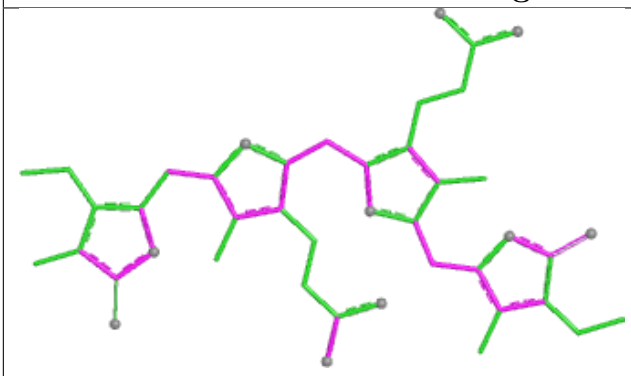


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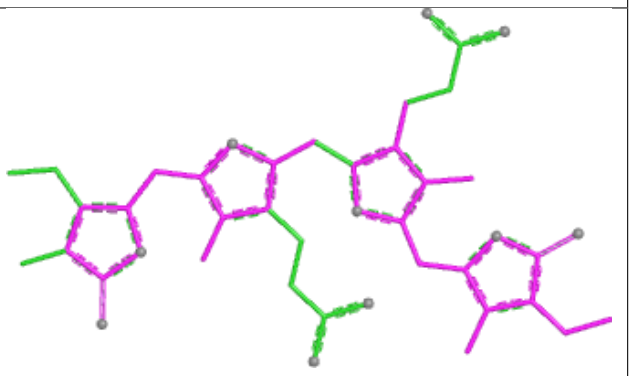


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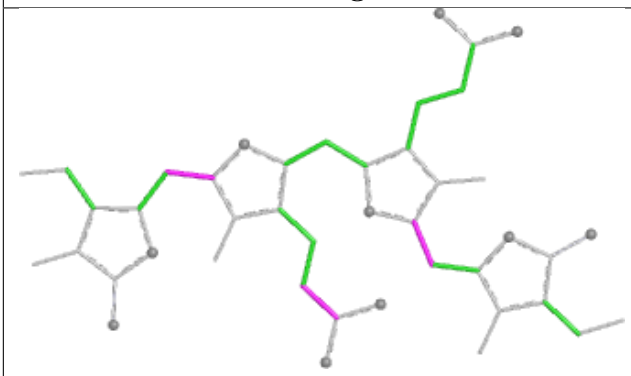
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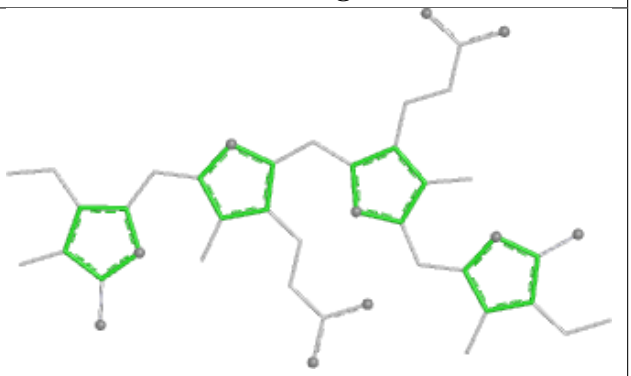
Bond lengths



Bond angles

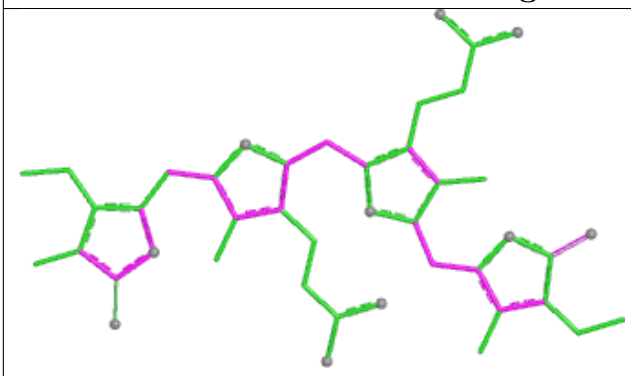


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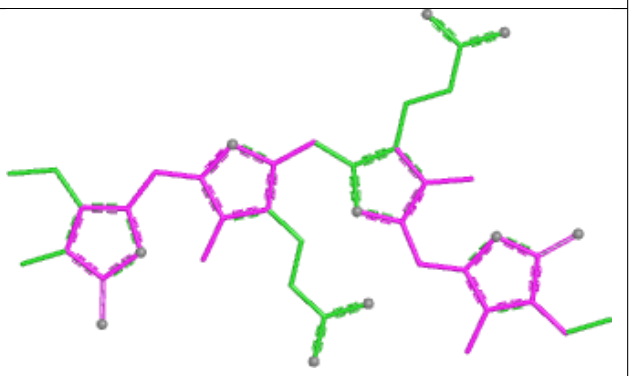


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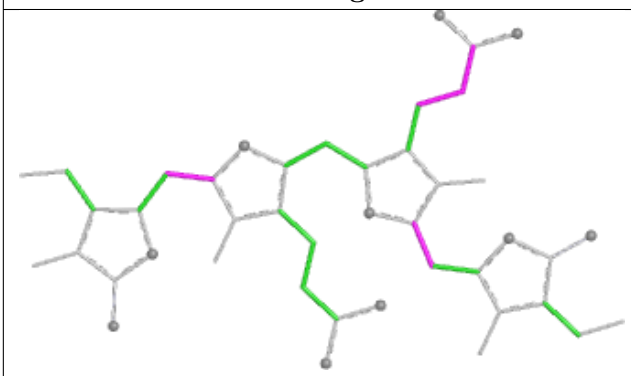
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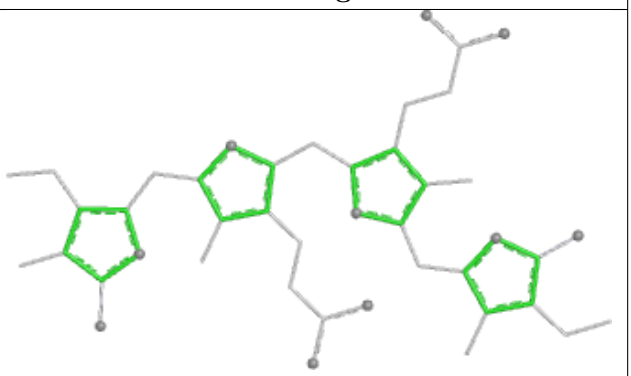
Bond lengths



Bond angles

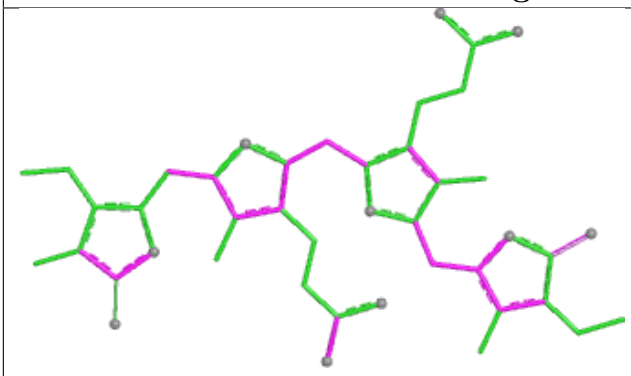


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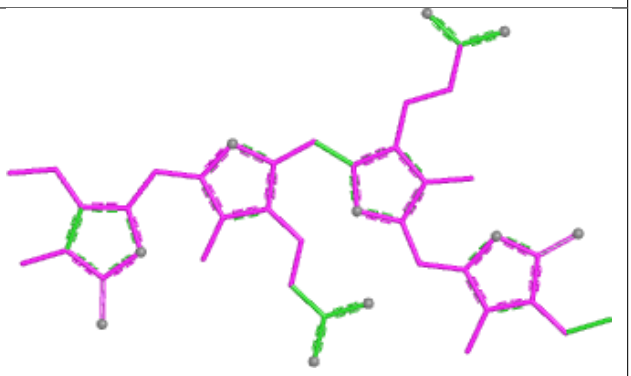


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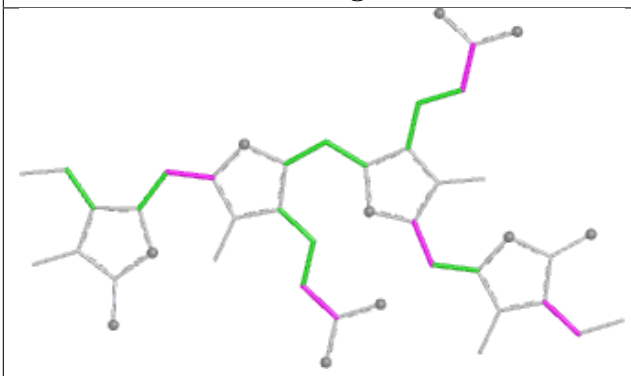
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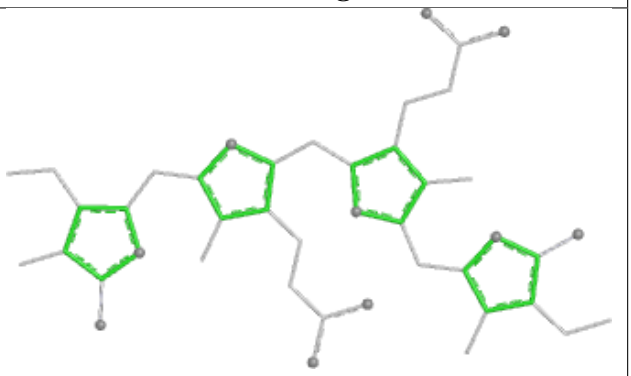
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Bond angles

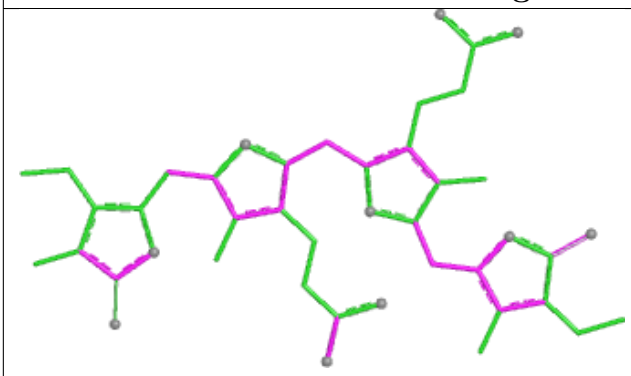


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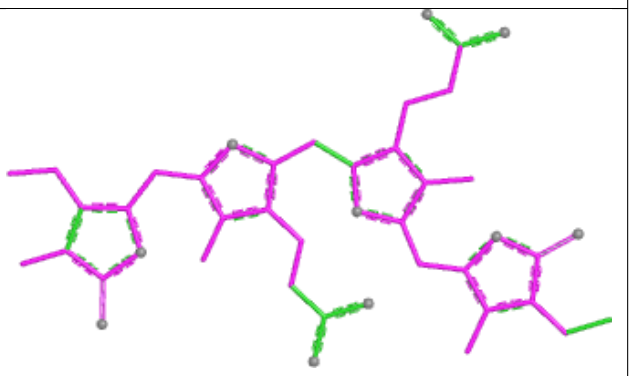


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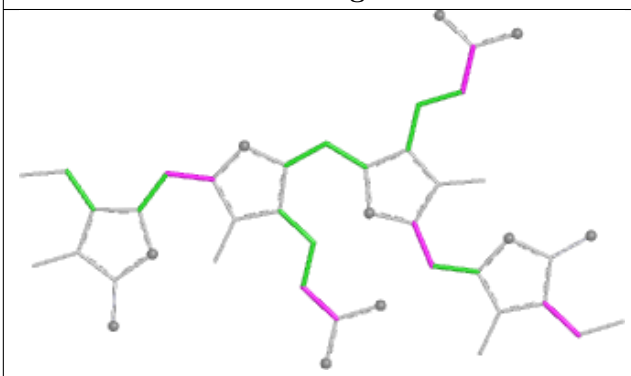
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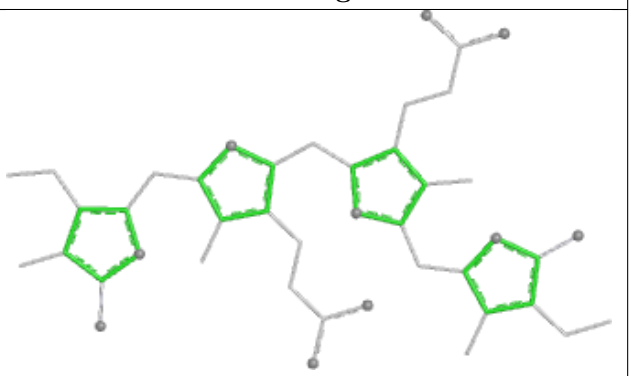
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Bond angles

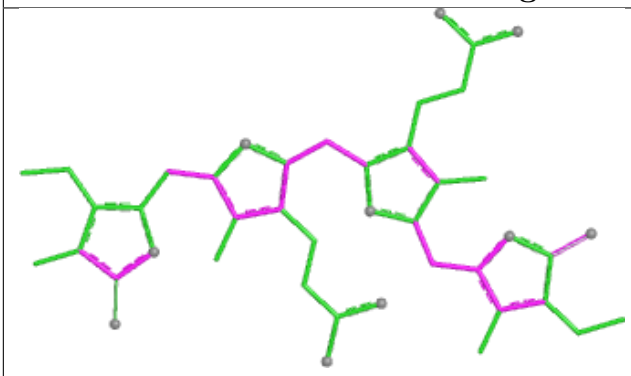


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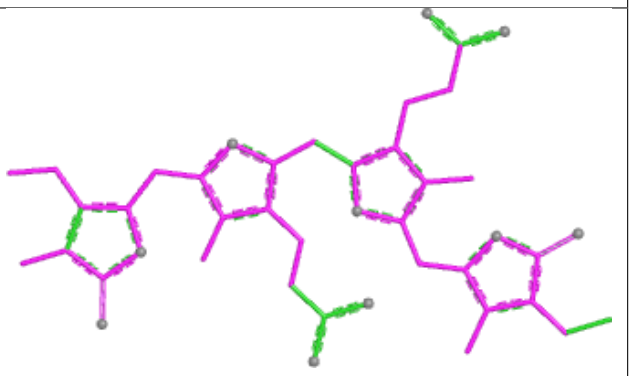


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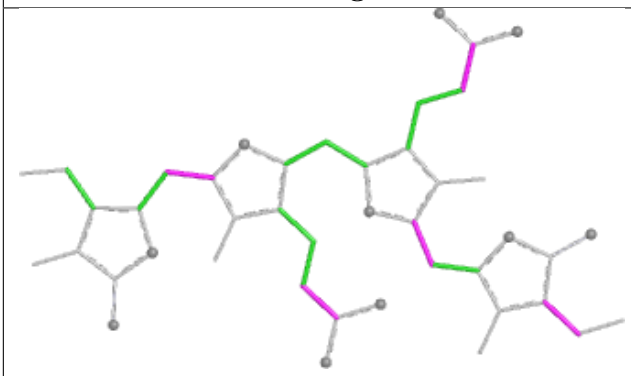
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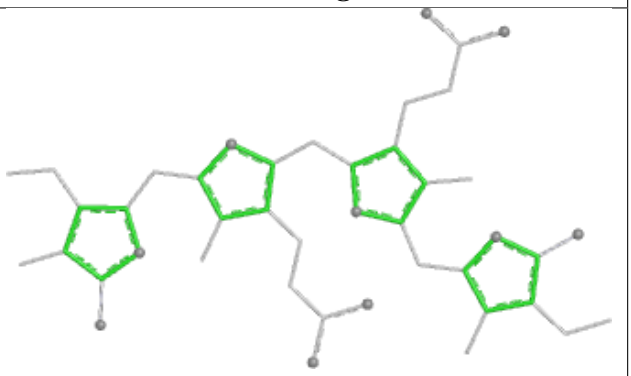
Bond lengths



Bond angles

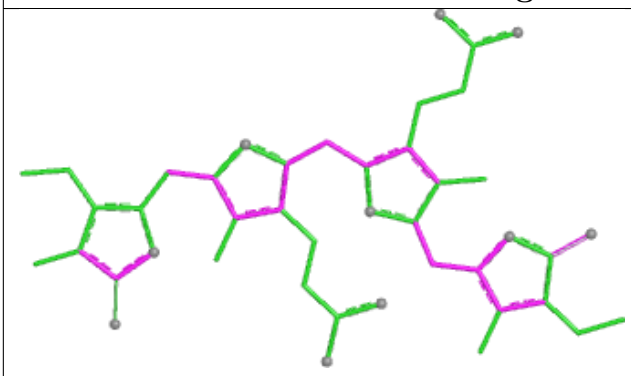


Torsions

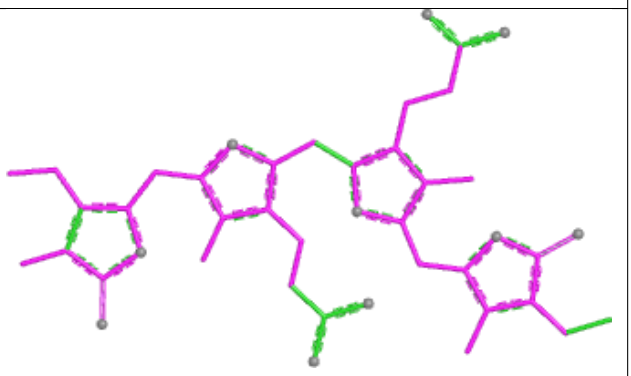


Rings

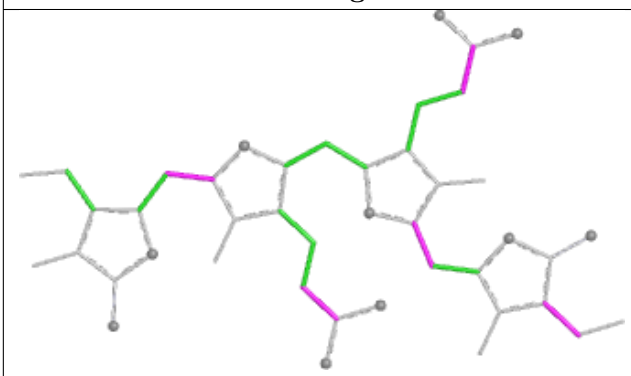
Ligand CYC S3 201



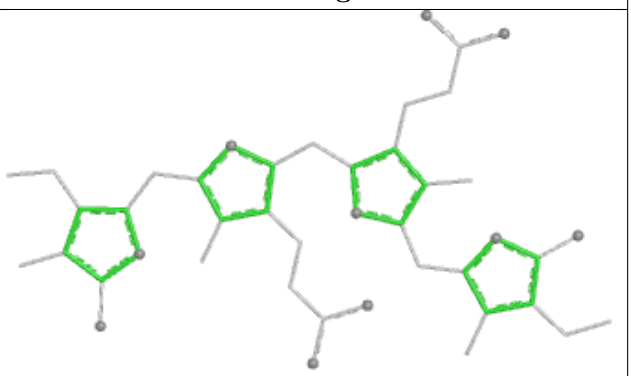
Bond lengths



Bond angles

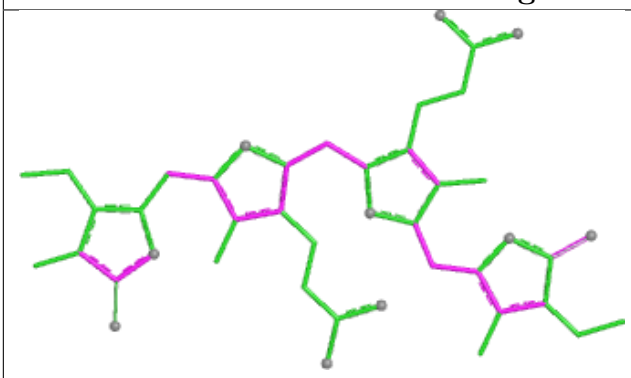


Torsions

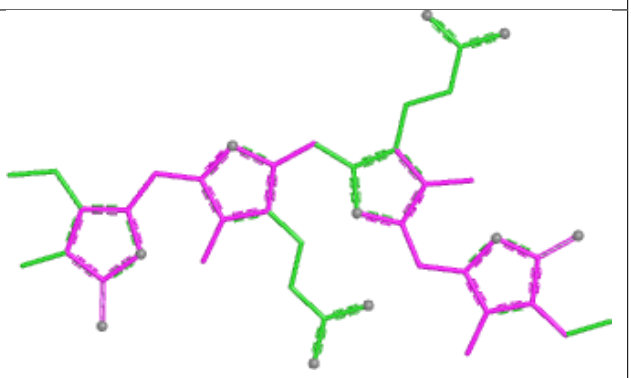


Rings

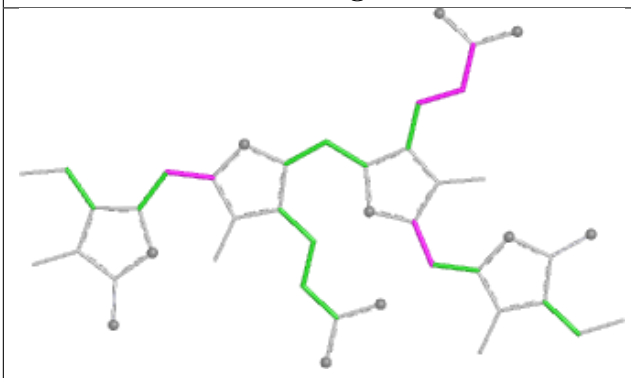
Ligand CYC e7 201



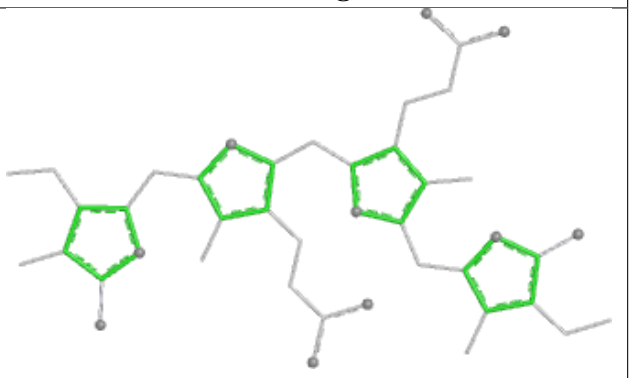
Bond lengths



Bond angles



Torsions



Rings

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.

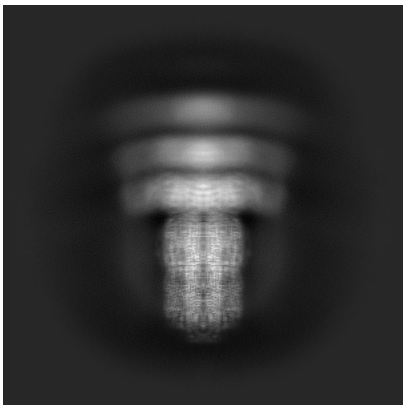
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-62201. These allow visual inspection of the internal detail of the map and identification of artifacts.

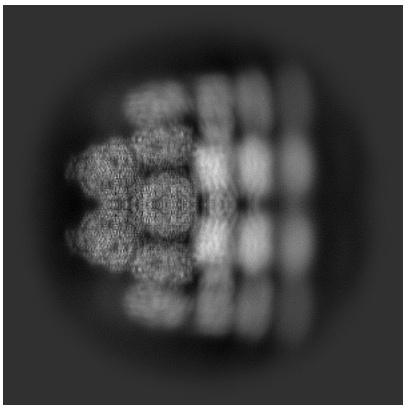
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

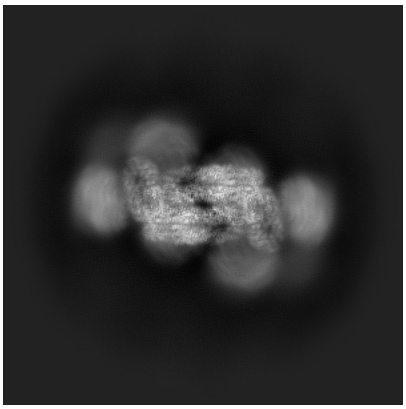
6.1.1 Primary map



X

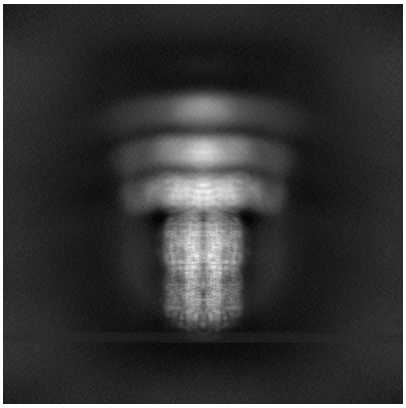


Y

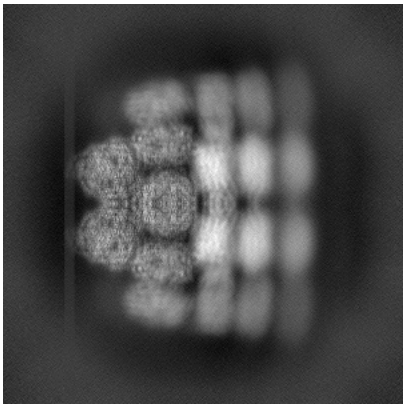


Z

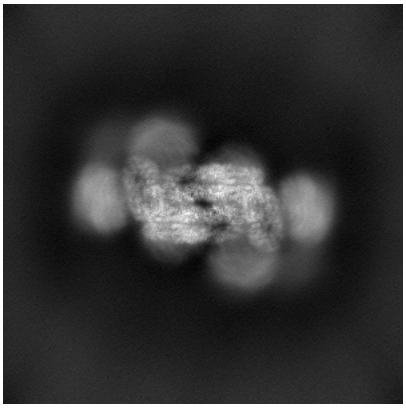
6.1.2 Raw map



X



Y

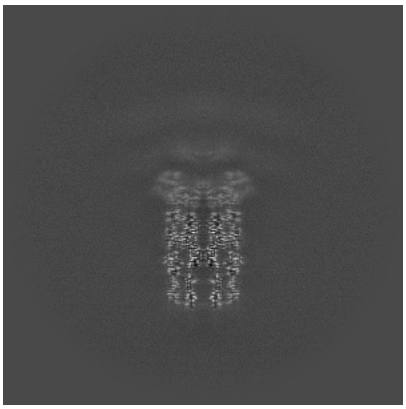


Z

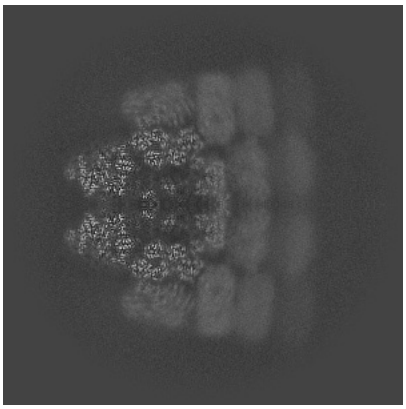
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

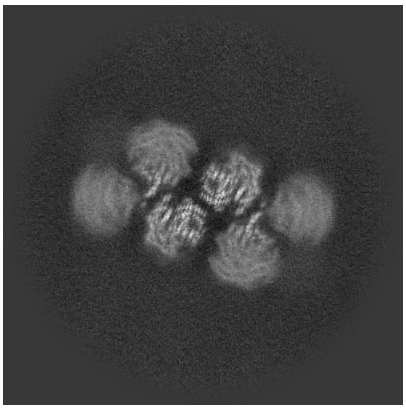
6.2.1 Primary map



X Index: 280

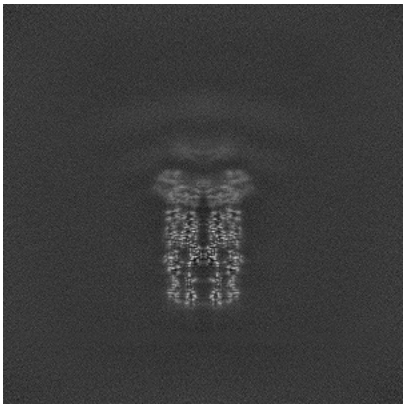


Y Index: 280

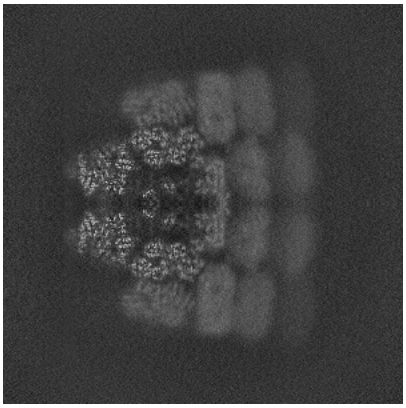


Z Index: 280

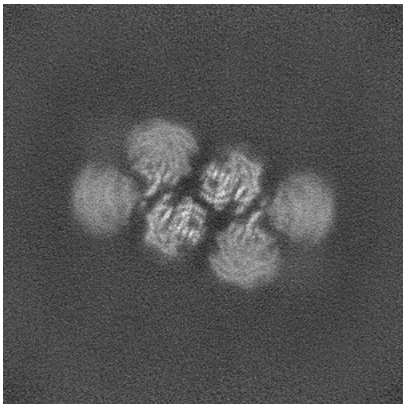
6.2.2 Raw map



X Index: 280



Y Index: 280

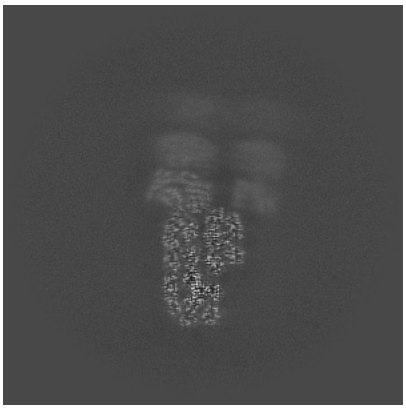


Z Index: 280

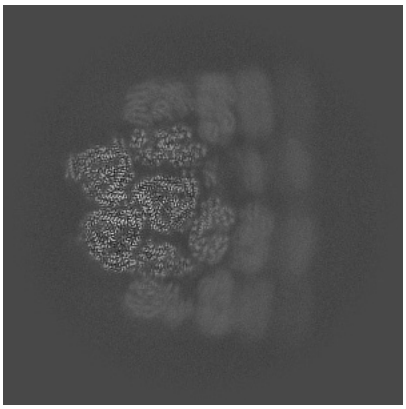
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

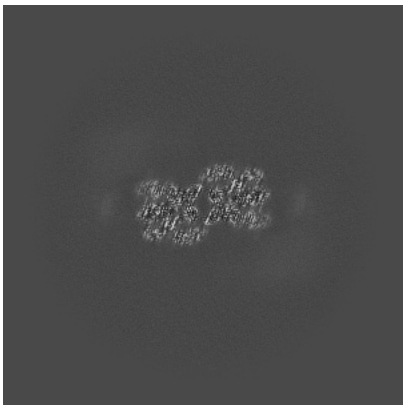
6.3.1 Primary map



X Index: 259

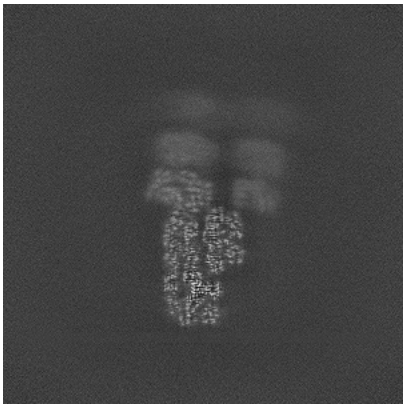


Y Index: 265

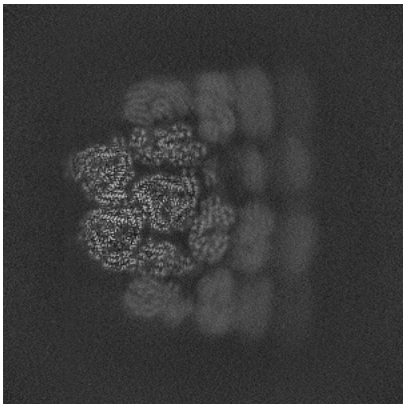


Z Index: 166

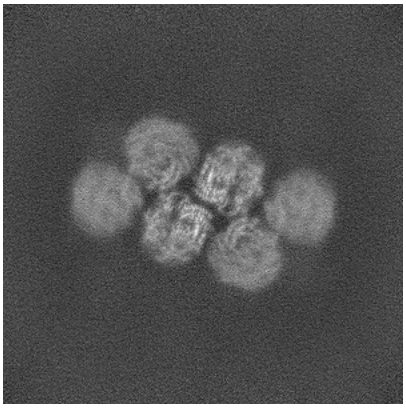
6.3.2 Raw map



X Index: 258



Y Index: 265

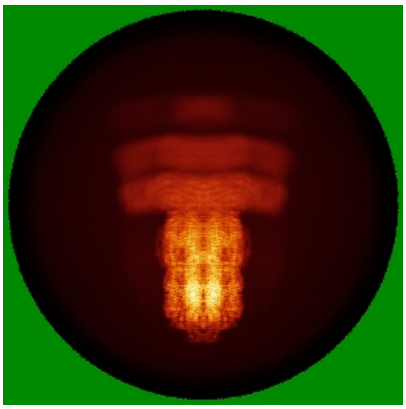


Z Index: 290

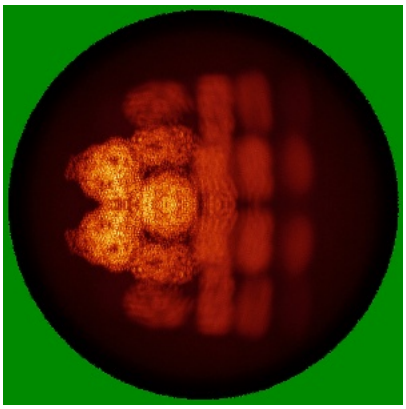
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

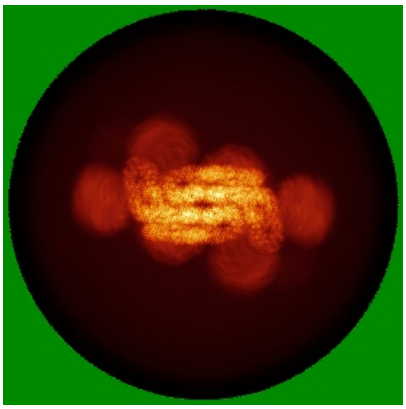
6.4.1 Primary map



X

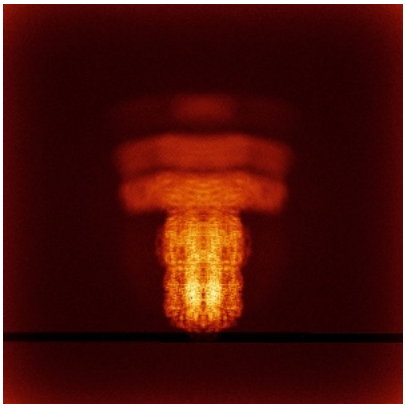


Y

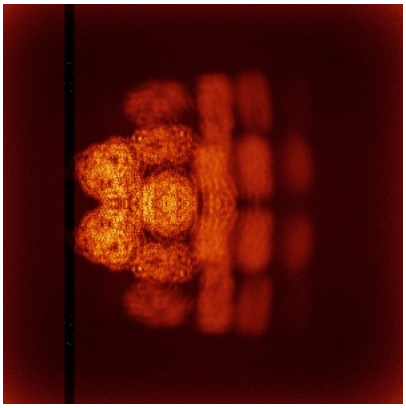


Z

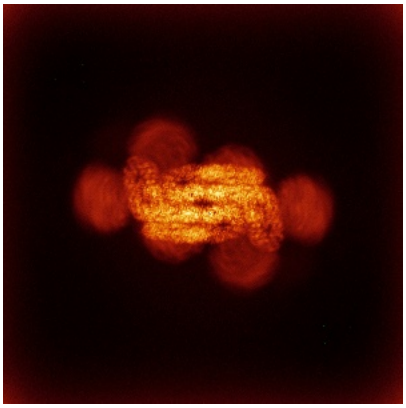
6.4.2 Raw map



X



Y

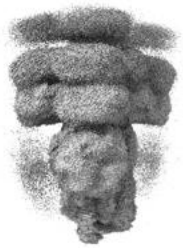


Z

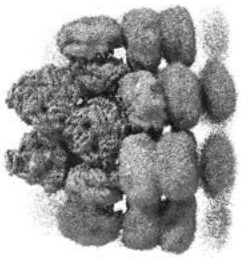
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X



Y



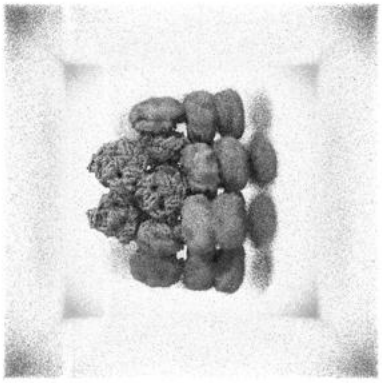
Z

The images above show the 3D surface view of the map at the recommended contour level 0.15. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

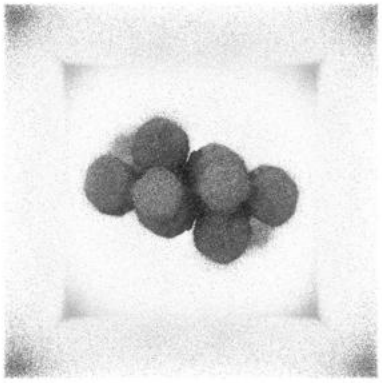
6.5.2 Raw map



X



Y



Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

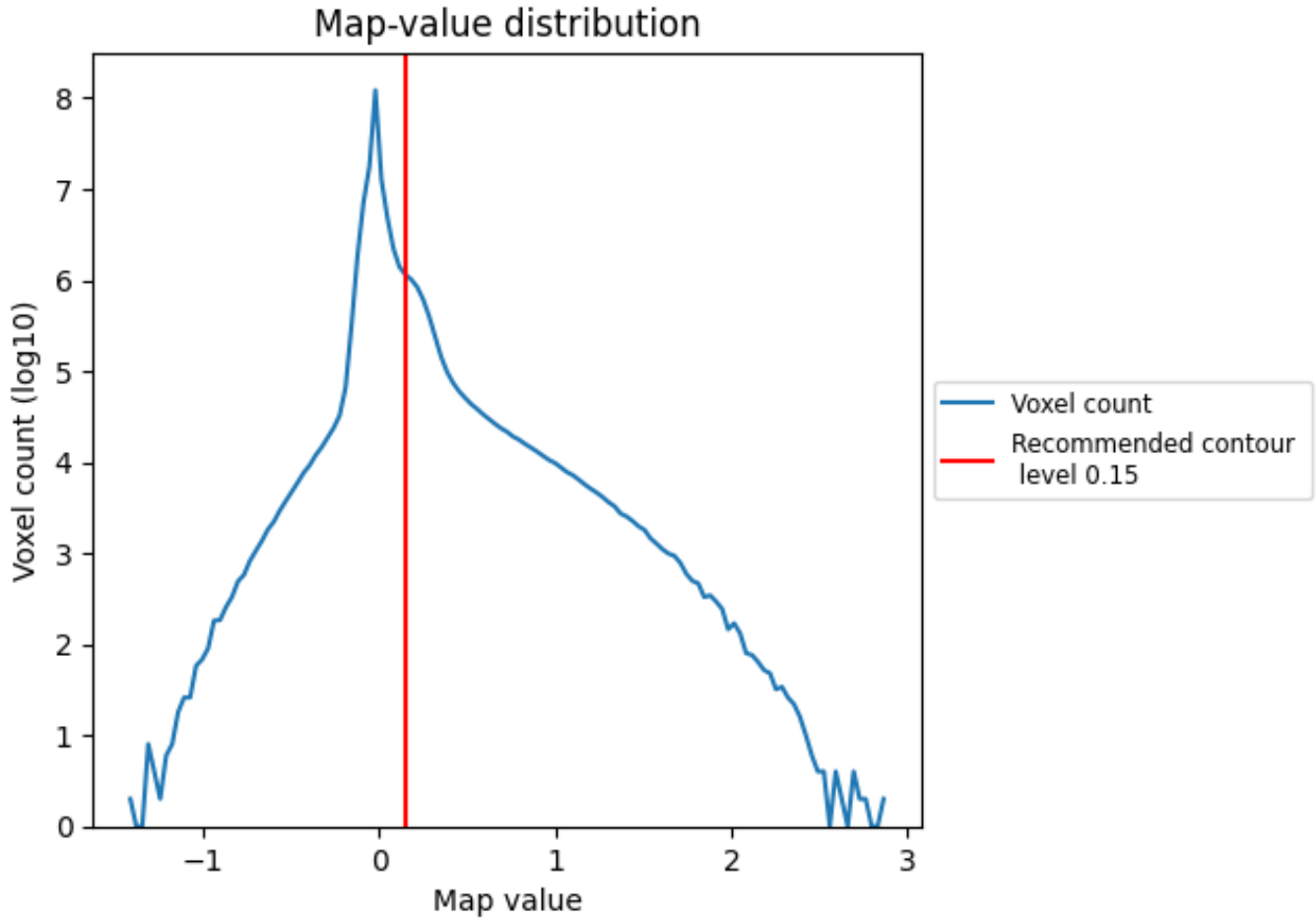
6.6 Mask visualisation (i)

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

7 Map analysis

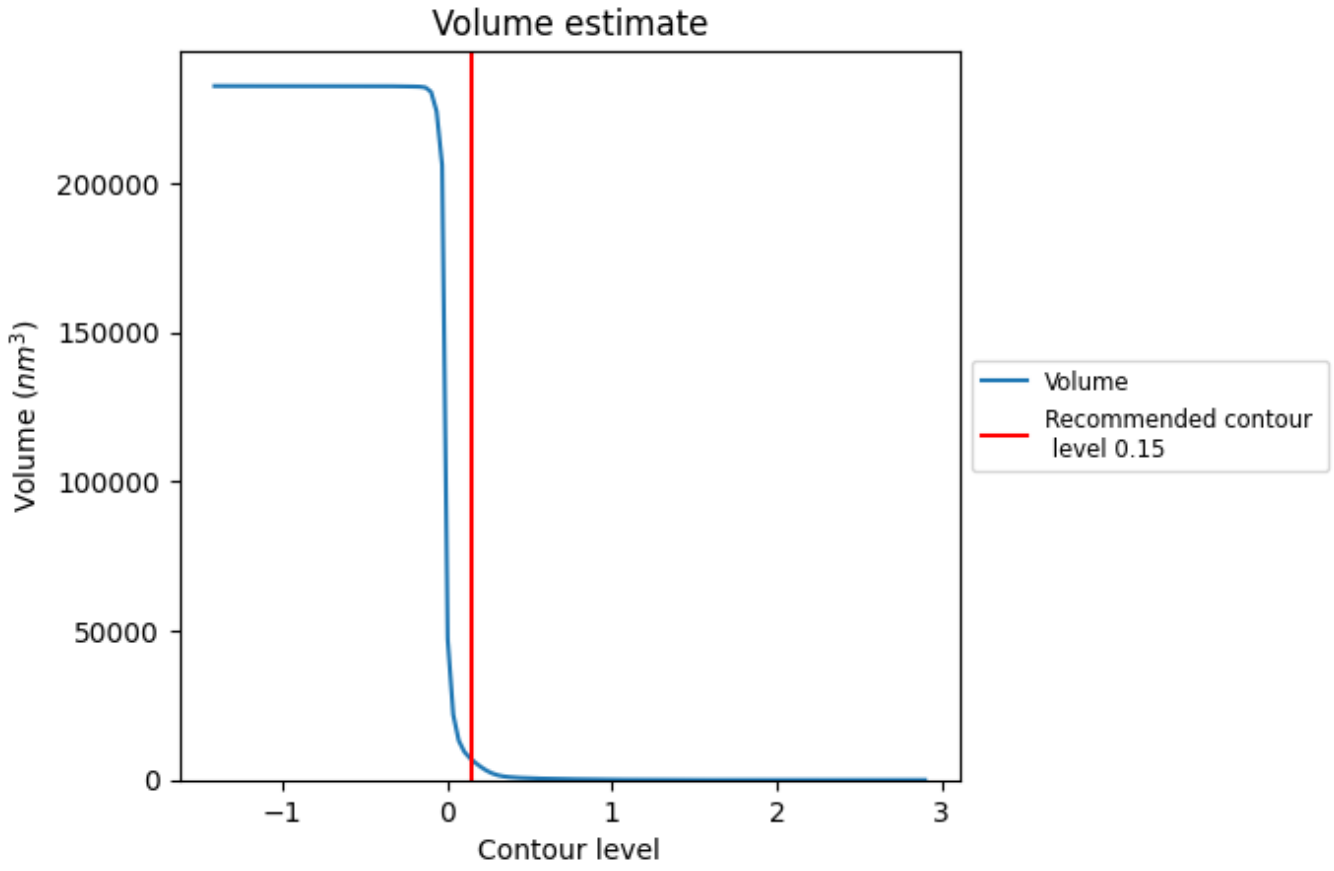
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

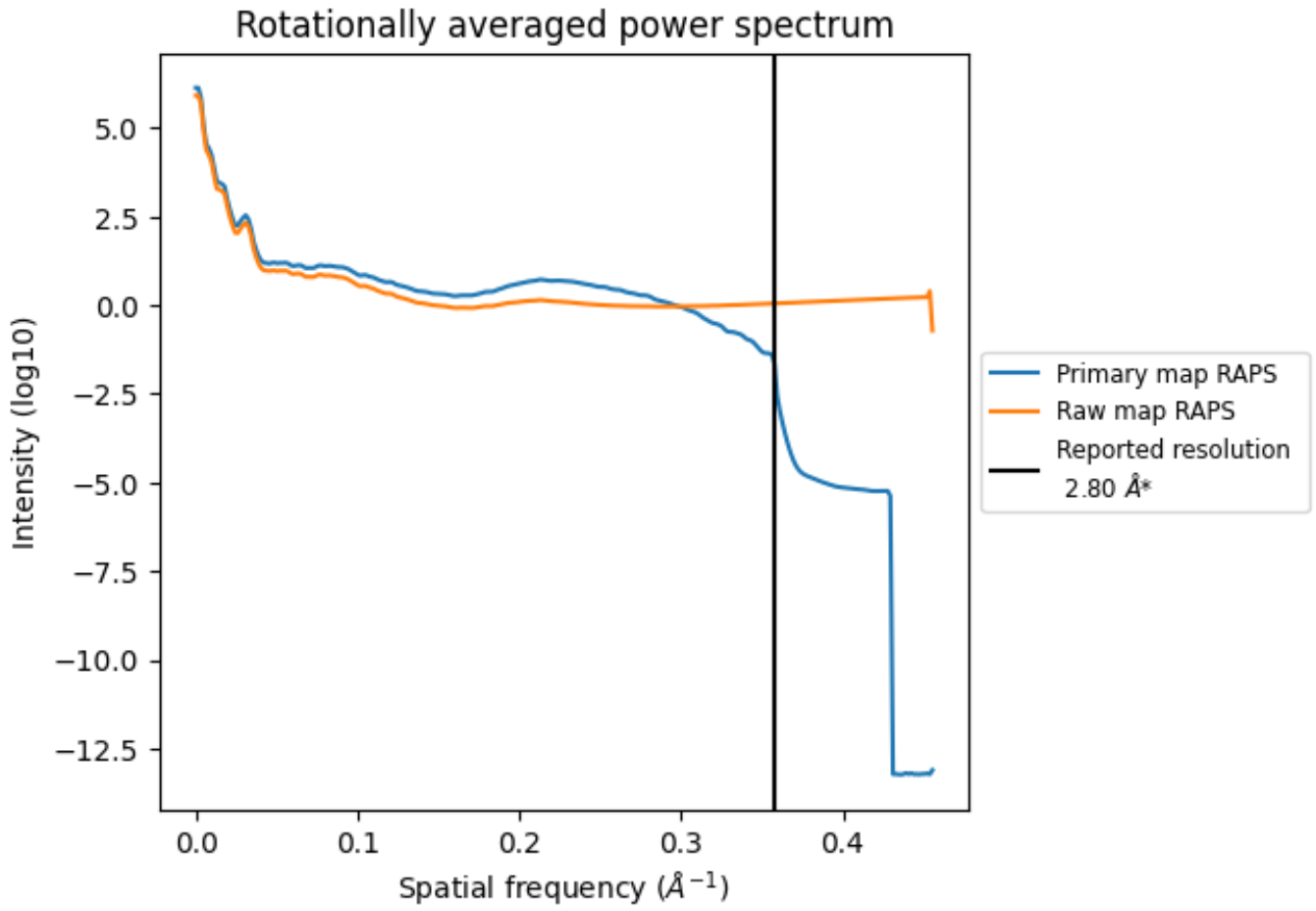
7.2 Volume estimate



The volume at the recommended contour level is 6773 nm^3; this corresponds to an approximate mass of 6118 kDa.

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

7.3 Rotationally averaged power spectrum (i)

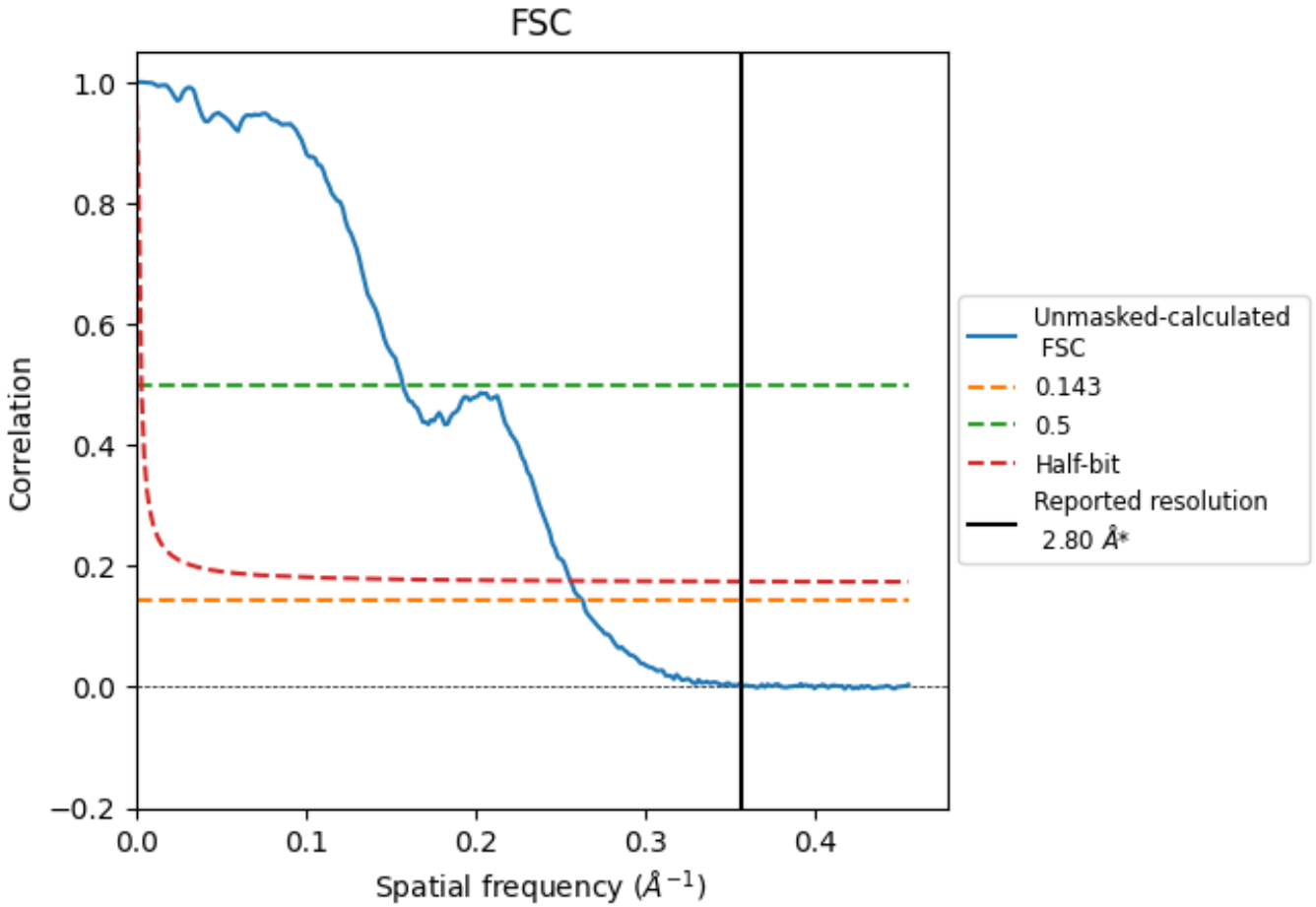


*Reported resolution corresponds to spatial frequency of 0.357 $Å^{-1}$

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.357 Å^{-1}

8.2 Resolution estimates (i)

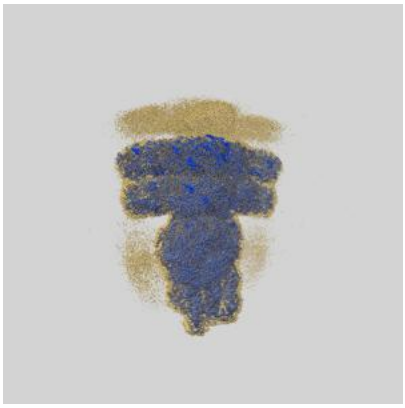
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.80	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.80	6.36	3.90

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.80 differs from the reported value 2.8 by more than 10 %

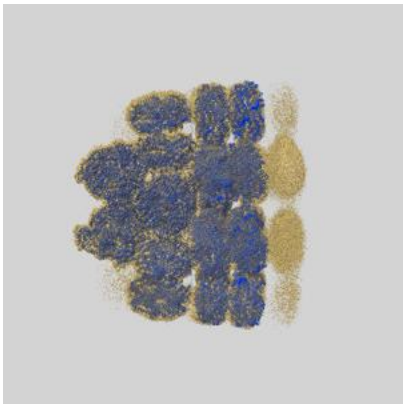
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-62201 and PDB model 9K9W. Per-residue inclusion information can be found in section 3 on page 64.

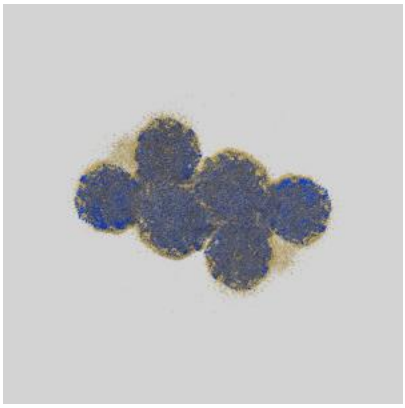
9.1 Map-model overlay



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.15 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

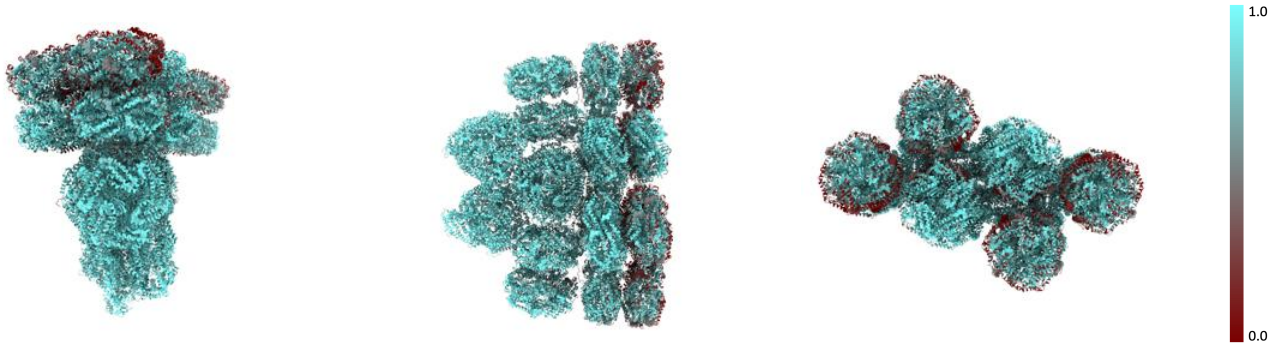
9.2 Q-score mapped to coordinate model



X Y Z

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

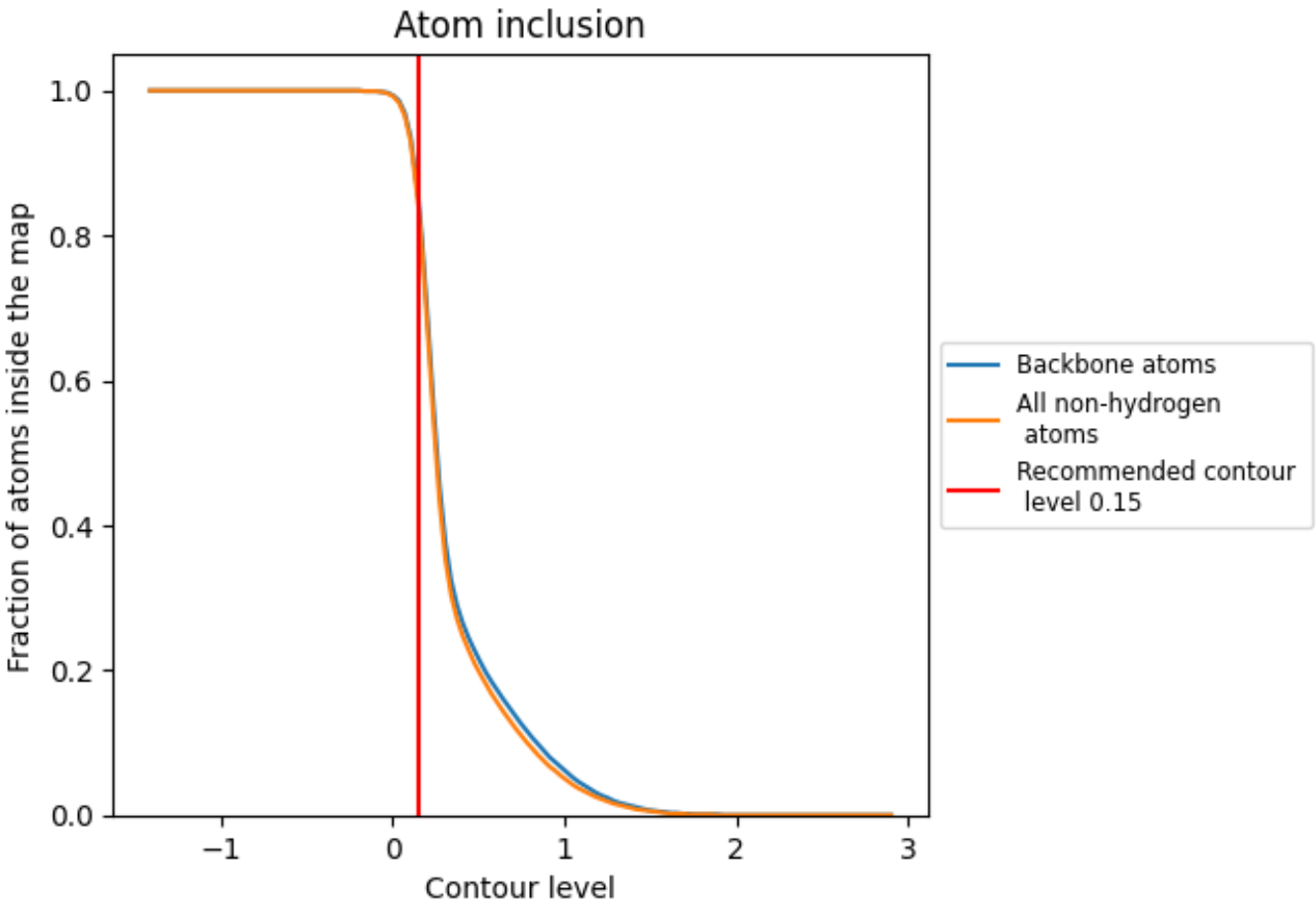
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.15).

9.4 Atom inclusion (i)



At the recommended contour level, 85% of all backbone atoms, 84% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.15) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8410	0.1660
A	0.9470	0.4470
A1	0.9680	0.0200
A2	0.9530	0.0760
A3	0.9680	0.0180
A4	0.9620	0.0050
A5	0.8880	0.4010
A6	0.9360	0.0450
A7	0.9070	0.4410
A8	0.9590	0.0050
A9	0.9710	0.1020
AA	0.9710	0.1010
B1	0.9110	0.0460
B2	0.9180	0.0420
B3	0.9100	0.0450
B4	0.8740	0.0160
B5	0.9300	0.4250
B6	0.9170	0.0210
B7	0.9140	0.4480
B8	0.8760	0.0190
B9	0.9190	0.0640
BA	0.9200	0.0650
C1	0.9070	0.0260
C2	0.9200	0.0530
C3	0.9060	0.0270
C4	0.8570	0.0230
C5	0.9150	0.3900
C6	0.9070	0.0180
C7	0.9290	0.4230
C8	0.8590	0.0230
C9	0.9440	0.1850
CA	0.9430	0.1800
D1	0.8770	0.0390
D2	0.9520	0.0480
D3	0.8740	0.0390



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Chain	Atom inclusion	Q-score
D4	0.8880	0.0350
D5	0.9400	0.4380
D6	0.9460	0.0220
D7	0.9270	0.4710
D8	0.8880	0.0350
D9	0.8880	0.0870
DA	0.8880	0.0850
E1	0.8780	0.0440
E2	0.8970	0.0370
E3	0.8770	0.0470
E4	0.8810	0.0090
E5	0.9490	0.4440
E6	0.8970	-0.0060
E7	0.9140	0.4560
E8	0.8810	0.0120
E9	0.8690	0.0360
EA	0.8690	0.0270
F1	0.8240	0.0690
F2	0.9320	0.0730
F3	0.8230	0.0690
F4	0.8870	0.0200
F5	0.9560	0.4680
F6	0.9450	0.0640
F7	0.9210	0.4680
F8	0.8850	0.0200
F9	0.9370	0.1660
FA	0.9350	0.1630
G1	0.9550	0.0100
G2	0.9540	0.1620
G3	0.9540	0.0090
G4	0.9650	0.0600
G5	0.8900	0.3950
G6	0.9410	0.1340
G7	0.9180	0.4560
G8	0.9650	0.0560
G9	0.9660	0.0900
GA	0.9670	0.0890
H1	0.9190	0.0510
H2	0.8170	0.1580
H3	0.9190	0.0480
H4	0.8680	0.0340
H5	0.9390	0.4420

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Chain	Atom inclusion	Q-score
H6	0.7890	0.1510
H7	0.9210	0.4490
H8	0.8710	0.0340
H9	0.9440	0.1020
HA	0.9440	0.0970
I1	0.8110	0.0770
I2	0.8180	0.0700
I3	0.8110	0.0810
I4	0.9300	0.0210
I5	0.9240	0.4120
I6	0.8090	0.0620
I7	0.9310	0.4410
I8	0.9310	0.0240
I9	0.9030	0.1620
IA	0.9000	0.1510
J1	0.8200	0.0600
J2	0.7860	0.0510
J3	0.8240	0.0640
J4	0.9200	0.0180
J5	0.9480	0.4520
J6	0.7540	0.0390
J7	0.9230	0.4760
J8	0.9220	0.0190
J9	0.7570	0.0370
JA	0.7580	0.0260
K1	0.9570	0.0210
K2	0.9160	0.0640
K3	0.9570	0.0210
K4	0.7970	-0.0040
K5	0.9510	0.4480
K6	0.8890	0.0350
K7	0.9200	0.4690
K8	0.7980	-0.0030
K9	0.8880	0.0330
KA	0.8860	0.0320
L1	0.9210	0.0140
L2	0.8740	0.1670
L3	0.9230	0.0150
L4	0.8280	0.0190
L5	0.9620	0.4790
L6	0.8280	0.0950
L7	0.9360	0.4950

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Chain	Atom inclusion	Q-score
L8	0.8210	0.0170
L9	0.9710	0.0630
LA	0.9710	0.0640
M1	0.8250	0.0150
M2	0.9060	0.1810
M3	0.8250	0.0150
M4	0.9250	0.0060
M5	0.8880	0.3860
M6	0.8900	0.1380
M7	0.9160	0.4090
M8	0.9220	0.0070
M9	0.8990	0.0260
MA	0.8970	0.0250
N1	0.8500	0.0180
N2	0.9640	0.0580
N3	0.8520	0.0200
N4	0.6060	0.0320
N5	0.9160	0.4630
N6	0.9390	0.0140
N7	0.9090	0.4070
N8	0.6050	0.0360
N9	0.9770	-0.0350
NA	0.9790	-0.0330
O1	0.7780	-0.0010
O3	0.7770	-0.0040
O4	0.6630	0.0210
O5	0.9230	0.4090
O7	0.8320	0.3020
O8	0.6660	0.0190
O9	0.9720	0.0070
OA	0.9730	0.0100
P1	0.6150	0.0000
P3	0.6130	0.0020
P4	0.6130	0.0150
P5	0.9370	0.4400
P7	0.9210	0.3850
P8	0.6150	0.0170
P9	0.9420	0.0270
PA	0.9380	0.0260
Q1	0.5190	0.0250
Q3	0.5230	0.0260
Q4	0.5520	0.0070

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Chain	Atom inclusion	Q-score
Q5	0.9170	0.3890
Q7	0.8470	0.2750
Q8	0.5340	0.0200
Q9	0.7250	0.0060
QA	0.7680	0.0190
R1	0.6870	0.0350
R3	0.6900	0.0360
R4	0.4480	-0.0020
R5	0.9230	0.4280
R7	0.8980	0.3190
R8	0.4500	-0.0030
R9	0.8570	0.0320
RA	0.8570	0.0330
S1	0.6770	0.0090
S3	0.6790	0.0090
S4	0.4190	0.0200
S5	0.8940	0.4090
S7	0.8710	0.3170
S8	0.4070	0.0150
S9	0.8810	0.0320
SA	0.8810	0.0310
T1	0.6030	-0.0180
T3	0.6070	-0.0230
T4	0.7530	0.0090
T5	0.9350	0.5020
T7	0.8800	0.3090
T8	0.7560	0.0060
T9	0.8300	0.0220
TA	0.8310	0.0190
U1	0.4790	0.0270
U3	0.4730	0.0210
U4	0.7550	0.0020
U5	0.9420	0.4640
U7	0.8160	0.2730
U8	0.7520	0.0020
U9	0.8550	0.0250
UA	0.8560	0.0280
V1	0.3550	0.0020
V3	0.3550	0.0030
V4	0.4840	0.0010
V5	0.9540	0.4770
V7	0.9130	0.3600

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Chain	Atom inclusion	Q-score
V8	0.4810	0.0030
V9	0.2500	0.0030
VA	0.2510	0.0040
W1	0.5900	0.0200
W3	0.5980	0.0210
W4	0.4270	-0.0000
W5	0.9240	0.4160
W7	0.8470	0.2670
W8	0.4280	-0.0020
W9	0.3970	0.0280
WA	0.3950	0.0270
X1	0.7710	0.0070
X3	0.7700	0.0050
X4	0.5080	0.0090
X5	0.9310	0.4440
X7	0.8850	0.2980
X8	0.5080	0.0050
X9	0.5140	0.0210
XA	0.5110	0.0180
Y1	0.7920	0.0060
Y3	0.7910	0.0010
Y4	0.4670	-0.0060
Y5	0.9370	0.4230
Y7	0.9380	0.3320
Y8	0.4750	-0.0060
Y9	0.9060	0.0350
YA	0.9050	0.0340
Z	0.9530	0.4620
Z1	0.5710	-0.0020
Z3	0.5700	-0.0040
Z4	0.9320	0.0790
Z5	0.9320	0.4750
Z7	0.9270	0.3800
Z8	0.9220	0.0570
Z9	0.8430	0.0200
ZA	0.8450	0.0200
a5	0.9420	0.4730
a7	0.9200	0.3710
a9	0.9110	0.1690
aA	0.9100	0.1710
b5	0.8930	0.3450
b7	0.9550	0.4480

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Chain	Atom inclusion	Q-score
c5	0.9370	0.4260
c7	0.9330	0.3650
d5	0.9340	0.4700
d7	0.9640	0.3620
e5	0.9400	0.4680
e7	0.9310	0.3250
f5	0.9080	0.3800
f7	0.9320	0.3790
g7	0.9180	0.3670
h7	0.9580	0.4450
i5	0.9710	0.5210
i7	0.8840	0.2520
j5	0.9730	0.5350
j7	0.9600	0.3550
k5	0.9720	0.5330
k7	0.8890	0.3350
l7	0.9090	0.3360
m7	0.9450	0.2980
n7	0.8880	0.3070
o7	0.9420	0.4350
p7	0.8300	0.2650
q7	0.8360	0.2340
r7	0.9070	0.3460
s7	0.9450	0.2960
t7	0.8720	0.2670
u7	0.9530	0.4790
v7	0.7890	0.1970
w7	0.9830	0.5160
x7	0.9810	0.5000
y7	0.9810	0.5050
z5	0.9680	0.5260
z7	0.9870	0.5470