Full wwPDB EM Validation Report

Dec 29, 2025 – 06:41 PM JST

PDB ID	:	9M3J / pdb_00009m3j
EMDB ID	:	EMD-63604
Title	:	structure of bundle-shaped PBS with both long rod and (ApcA2B3ApcD) trimer
Authors	:	Ma, J.; Sui, S.-F.
Deposited on	:	2025-03-02
Resolution	:	3.37 Å(reported)
Based on initial model	:	.

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 (i) 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 (1)) were used in the production of this report:

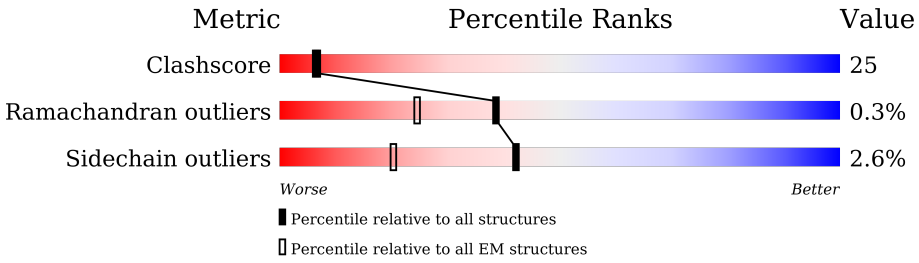
EMDB validation analysis	:	0.0.1.dev129
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4-5-2 with Phenix2.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive 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)	:	2.47

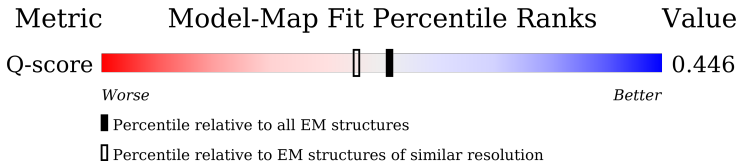
1 Overall quality at a glance

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

The reported resolution of this entry is 3.37 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	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
Q-score	-	25397	14287 (2.87 - 3.87)

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	A1	161	50% 48%
1	A2	161	60% 39%
1	A3	161	55% 42%
1	C1	161	45% 50%

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Mol	Chain	Length	Quality of chain
1	C2	161	60% 38%
1	C3	161	53% 44%
1	E1	161	63% 36%
1	E2	161	71% 28%
1	E3	161	56% 41%
1	G2	161	62% 37%
1	G3	161	58% 41%
1	H1	161	42% 56%
1	I2	161	62% 35%
1	I3	161	57% 40%
1	K2	161	67% 30%
1	K3	161	47% 50%
1	M2	161	57% 41%
1	M3	161	62% 37%
1	O2	161	55% 43%
1	O3	161	64% 35%
1	Q2	161	54% 42%
1	Q3	161	62% 37%
1	S2	161	52% 47%
1	S3	161	62% 36%
1	U2	161	52% 47%
1	U3	161	61% 36%
1	W2	161	53% 43%
1	W3	161	61% 35%
1	Y2	161	53% 46%

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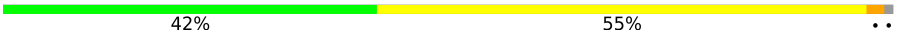
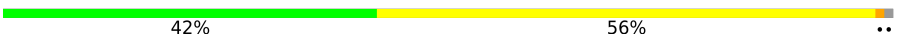
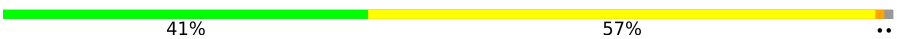
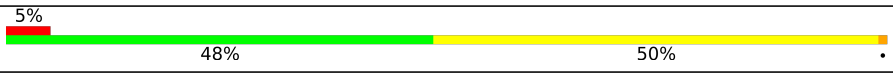
Mol	Chain	Length	Quality of chain
1	Y3	161	
1	a2	161	
1	a3	161	
1	c2	161	
1	c3	161	
1	e2	161	
1	e3	161	
1	g2	161	
1	i2	161	
1	k2	161	
1	m2	161	
1	o2	161	
1	q2	161	
1	s2	161	
1	u2	161	
2	B1	161	
2	B2	161	
2	B3	161	
2	D1	161	
2	D2	161	
2	D3	161	
2	F1	161	
2	F2	161	
2	F3	161	
2	G1	161	

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Mol	Chain	Length	Quality of chain
2	H2	161	62% 38%
2	H3	161	66% 33%
2	I1	161	52% 47%
2	J1	161	49% 49%
2	J2	161	76% 24%
2	J3	161	56% 42%
2	L2	161	67% 32%
2	L3	161	62% 36%
2	N2	161	59% 41%
2	N3	161	71% 28%
2	P2	161	59% 40%
2	P3	161	66% 34%
2	R2	161	60% 39%
2	R3	161	71% 28%
2	T2	161	50% 50%
2	T3	161	73% 27%
2	V2	161	59% 40%
2	V3	161	62% 37%
2	X2	161	61% 37%
2	X3	161	70% 30%
2	Z2	161	62% 37%
2	Z3	161	70% 29%
2	b2	161	64% 35%
2	b3	161	54% 44%
2	d2	161	57% 42%

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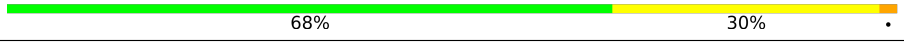
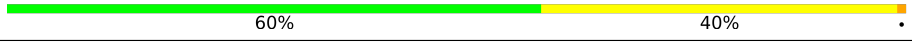
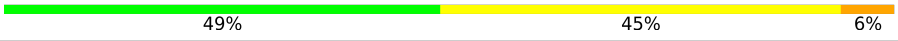
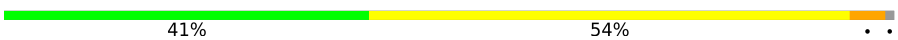
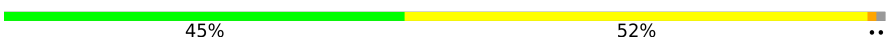
Mol	Chain	Length	Quality of chain
2	d3	161	
2	f2	161	
2	f3	161	
2	g3	161	
2	h2	161	
2	h3	161	
2	j2	161	
2	l2	161	
2	n2	161	
2	p2	161	
2	r2	161	
2	t2	161	
2	v2	161	
3	K1	161	
3	L1	161	
4	M1	69	
4	i3	69	
4	w2	69	
4	x2	69	
4	y2	69	
4	z1	69	
4	z2	69	
4	z3	69	
5	j3	1155	
5	k3	1155	

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 140502 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 alpha subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A1	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	C1	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	E1	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	H1	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	A2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	C2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	E2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	G2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	I2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	K2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	M2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	O2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	Q2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	S2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	U2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	W2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	Y2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	a2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	c2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	e2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	g2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	i2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	k2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	m2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	o2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	q2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	s2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	u2	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	A3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	C3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	E3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	G3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	I3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	K3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	M3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	O3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	Q3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	S3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	U3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	W3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	Y3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	a3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	c3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		
1	e3	160	Total	C	N	O	S	0	0
			1222	771	209	237	5		

- Molecule 2 is a protein called Allophycocyanin beta subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B1	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	D1	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	F1	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	G1	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	I1	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	J1	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	B2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	D2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	F2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	H2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	J2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	L2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	N2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	P2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	R2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	T2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	V2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	X2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	Z2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	b2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	d2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	f2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	h2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	j2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	l2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	n2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	p2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	r2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	t2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	v2	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	B3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	D3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	F3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	H3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	J3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	L3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	N3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	P3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	R3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	T3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	V3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	X3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	Z3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	b3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	d3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	f3	161	Total	C	N	O	S	0	0
			1210	767	202	235	6		
2	g3	161	Total	C	N	O	S	0	0
			1209	767	202	234	6		
2	h3	161	Total	C	N	O	S	0	0
			1209	767	202	234	6		

- Molecule 3 is a protein called Allophycocyanin-B.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	K1	160	Total	C	N	O	S	0	0
			1255	796	215	237	7		
3	L1	160	Total	C	N	O	S	0	0
			1255	796	215	237	7		

- Molecule 4 is a protein called Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	z1	68	Total	C	N	O	S	0	0
			538	345	98	94	1		

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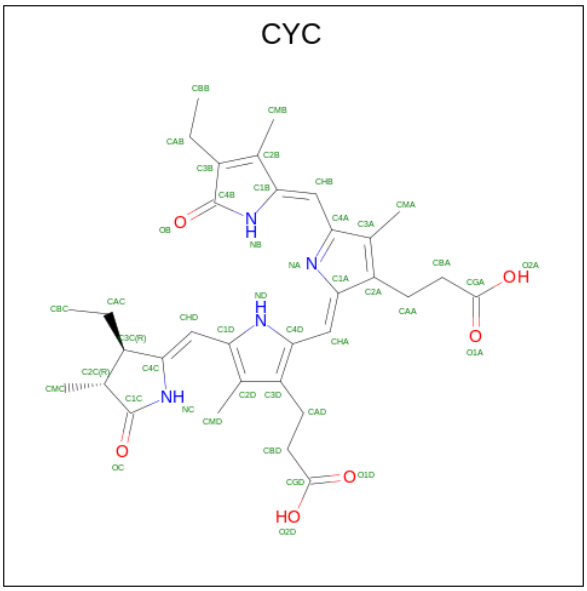
Mol	Chain	Residues	Atoms					AltConf	Trace
4	M1	68	Total	C	N	O	S	0	0
			538	345	98	94	1		
4	z2	68	Total	C	N	O	S	0	0
			538	345	98	94	1		
4	w2	68	Total	C	N	O	S	0	0
			538	345	98	94	1		
4	x2	68	Total	C	N	O	S	0	0
			538	345	98	94	1		
4	y2	68	Total	C	N	O	S	0	0
			538	345	98	94	1		
4	z3	68	Total	C	N	O	S	0	0
			538	345	98	94	1		
4	i3	68	Total	C	N	O	S	0	0
			538	345	98	94	1		

- Molecule 5 is a protein called Phycobiliprotein ApcE.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	j3	1108	Total	C	N	O	S	0	0
			8819	5593	1559	1647	20		
5	k3	1108	Total	C	N	O	S	0	0
			8819	5593	1559	1647	20		

- Molecule 6 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
6	A1	1	Total	C	N	O	0
			43	33	4	6	
6	C1	1	Total	C	N	O	0
			43	33	4	6	
6	F1	1	Total	C	N	O	0
			43	33	4	6	
6	E1	1	Total	C	N	O	0
			43	33	4	6	
6	H1	1	Total	C	N	O	0
			43	33	4	6	
6	J1	1	Total	C	N	O	0
			43	33	4	6	
6	K1	1	Total	C	N	O	0
			43	33	4	6	
6	L1	1	Total	C	N	O	0
			43	33	4	6	
6	z1	1	Total	C	N	O	0
			43	33	4	6	
6	M1	1	Total	C	N	O	0
			43	33	4	6	
6	A2	1	Total	C	N	O	0
			43	33	4	6	
6	B2	1	Total	C	N	O	0
			43	33	4	6	
6	C2	1	Total	C	N	O	0
			43	33	4	6	
6	E2	1	Total	C	N	O	0
			43	33	4	6	
6	F2	1	Total	C	N	O	0
			43	33	4	6	
6	G2	1	Total	C	N	O	0
			43	33	4	6	
6	H2	1	Total	C	N	O	0
			43	33	4	6	
6	I2	1	Total	C	N	O	0
			43	33	4	6	
6	K2	1	Total	C	N	O	0
			43	33	4	6	
6	L2	1	Total	C	N	O	0
			43	33	4	6	
6	M2	1	Total	C	N	O	0
			43	33	4	6	
6	N2	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
6	O2	1	Total	C	N	O	0
			43	33	4	6	
6	P2	1	Total	C	N	O	0
			43	33	4	6	
6	Q2	1	Total	C	N	O	0
			43	33	4	6	
6	R2	1	Total	C	N	O	0
			43	33	4	6	
6	S2	1	Total	C	N	O	0
			43	33	4	6	
6	T2	1	Total	C	N	O	0
			43	33	4	6	
6	U2	1	Total	C	N	O	0
			43	33	4	6	
6	V2	1	Total	C	N	O	0
			43	33	4	6	
6	W2	1	Total	C	N	O	0
			43	33	4	6	
6	X2	1	Total	C	N	O	0
			43	33	4	6	
6	Y2	1	Total	C	N	O	0
			43	33	4	6	
6	a2	1	Total	C	N	O	0
			43	33	4	6	
6	b2	1	Total	C	N	O	0
			43	33	4	6	
6	c2	1	Total	C	N	O	0
			43	33	4	6	
6	e2	1	Total	C	N	O	0
			43	33	4	6	
6	g2	1	Total	C	N	O	0
			43	33	4	6	
6	h2	1	Total	C	N	O	0
			43	33	4	6	
6	i2	1	Total	C	N	O	0
			43	33	4	6	
6	k2	1	Total	C	N	O	0
			43	33	4	6	
6	m2	1	Total	C	N	O	0
			43	33	4	6	
6	o2	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
6	p2	1	Total	C	N	O	0
			43	33	4	6	
6	q2	1	Total	C	N	O	0
			43	33	4	6	
6	s2	1	Total	C	N	O	0
			43	33	4	6	
6	u2	1	Total	C	N	O	0
			43	33	4	6	
6	v2	1	Total	C	N	O	0
			43	33	4	6	
6	x2	1	Total	C	N	O	0
			43	33	4	6	
6	y2	1	Total	C	N	O	0
			43	33	4	6	
6	A3	1	Total	C	N	O	0
			43	33	4	6	
6	C3	1	Total	C	N	O	0
			43	33	4	6	
6	D3	1	Total	C	N	O	0
			43	33	4	6	
6	E3	1	Total	C	N	O	0
			43	33	4	6	
6	F3	1	Total	C	N	O	0
			43	33	4	6	
6	G3	1	Total	C	N	O	0
			43	33	4	6	
6	H3	1	Total	C	N	O	0
			43	33	4	6	
6	I3	1	Total	C	N	O	0
			43	33	4	6	
6	J3	1	Total	C	N	O	0
			43	33	4	6	
6	K3	1	Total	C	N	O	0
			43	33	4	6	
6	L3	1	Total	C	N	O	0
			43	33	4	6	
6	M3	1	Total	C	N	O	0
			43	33	4	6	
6	N3	1	Total	C	N	O	0
			43	33	4	6	
6	O3	1	Total	C	N	O	0
			43	33	4	6	

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Mol	Chain	Residues	Atoms				AltConf
6	Q3	1	Total	C	N	O	0
			43	33	4	6	
6	R3	1	Total	C	N	O	0
			43	33	4	6	
6	S3	1	Total	C	N	O	0
			43	33	4	6	
6	T3	1	Total	C	N	O	0
			43	33	4	6	
6	U3	1	Total	C	N	O	0
			43	33	4	6	
6	V3	1	Total	C	N	O	0
			43	33	4	6	
6	W3	1	Total	C	N	O	0
			43	33	4	6	
6	X3	1	Total	C	N	O	0
			43	33	4	6	
6	Y3	1	Total	C	N	O	0
			43	33	4	6	
6	Z3	1	Total	C	N	O	0
			43	33	4	6	
6	a3	1	Total	C	N	O	0
			43	33	4	6	
6	b3	1	Total	C	N	O	0
			43	33	4	6	
6	c3	1	Total	C	N	O	0
			43	33	4	6	
6	d3	1	Total	C	N	O	0
			43	33	4	6	
6	e3	1	Total	C	N	O	0
			43	33	4	6	
6	f3	1	Total	C	N	O	0
			43	33	4	6	
6	g3	1	Total	C	N	O	0
			43	33	4	6	
6	z3	1	Total	C	N	O	0
			43	33	4	6	
6	j3	1	Total	C	N	O	0
			43	33	4	6	
6	j3	1	Total	C	N	O	0
			43	33	4	6	
6	j3	1	Total	C	N	O	0
			43	33	4	6	

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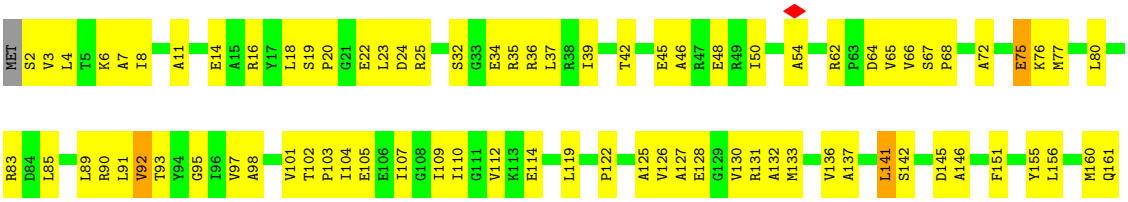
Mol	Chain	Residues	Atoms	AltConf
6	j3	1	Total C N O 43 33 4 6	0
6	j3	1	Total C N O 43 33 4 6	0
6	j3	1	Total C H N O 81 33 38 4 6	0
6	k3	1	Total C N O 43 33 4 6	0
6	k3	1	Total C N O 43 33 4 6	0
6	k3	1	Total C N O 43 33 4 6	0
6	k3	1	Total C N O 43 33 4 6	0
6	k3	1	Total C N O 43 33 4 6	0
6	k3	1	Total C N O 43 33 4 6	0
6	k3	1	Total C H N O 81 33 38 4 6	0
6	h3	1	Total C N O 43 33 4 6	0

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 alpha subunit

Chain A1:

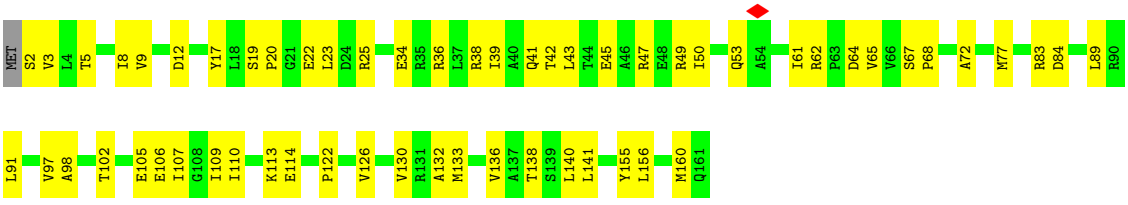


• Molecule 1: Allophycocyanin alpha subunit

Chain C1:

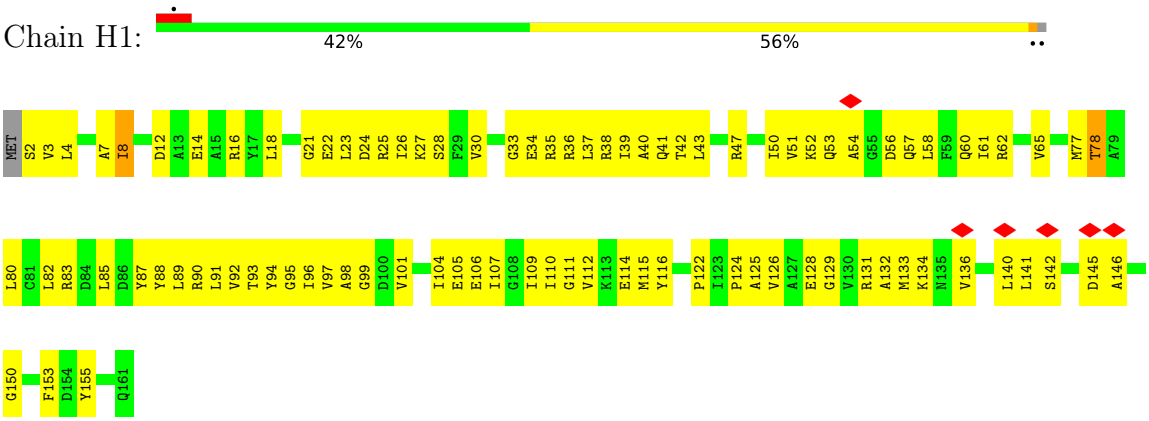
• Molecule 1: Allophycocyanin alpha subunit

Chain E1:



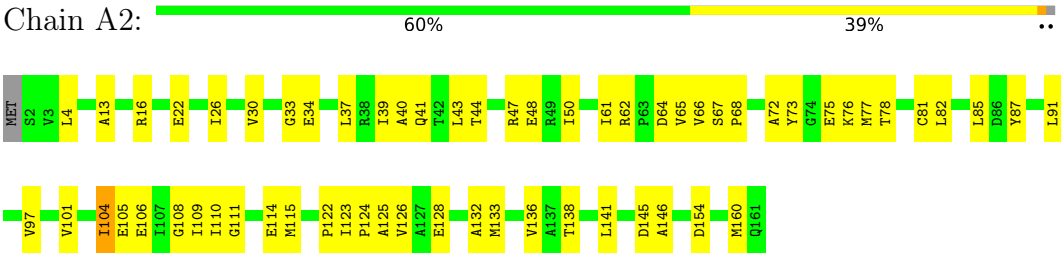
• Molecule 1: Allophycocyanin alpha subunit

Chain H1:



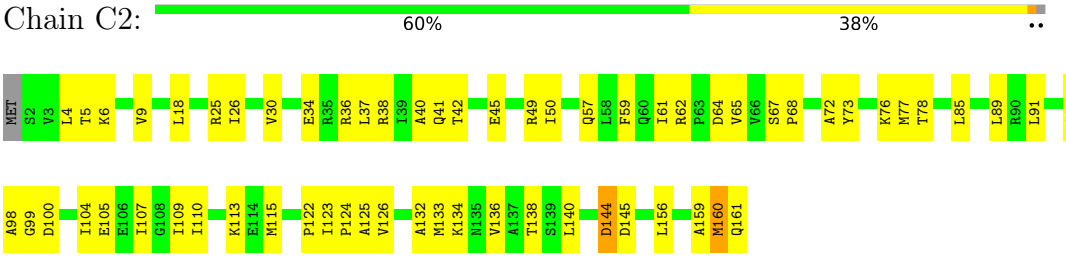
• Molecule 1: Allophycocyanin alpha subunit

Chain A2:



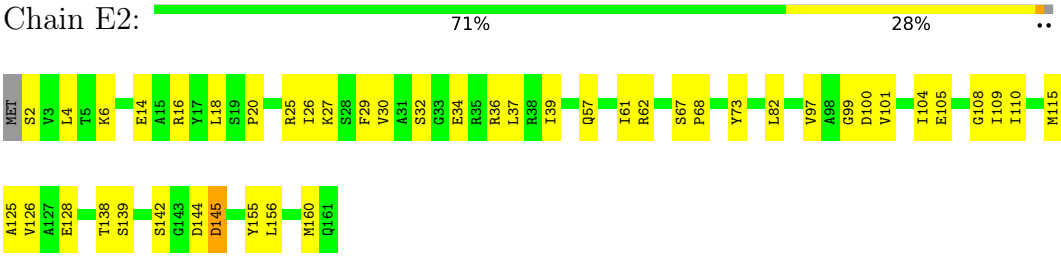
• Molecule 1: Allophycocyanin alpha subunit

Chain C2:



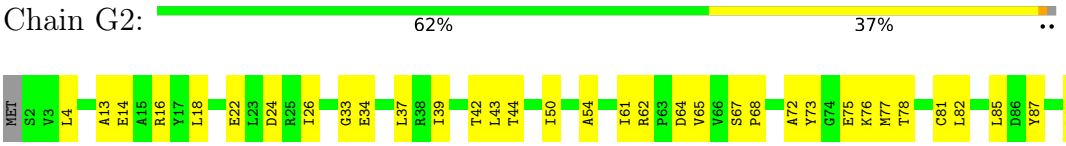
• Molecule 1: Allophycocyanin alpha subunit

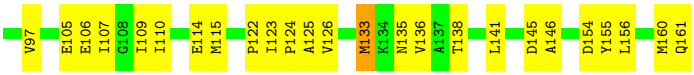
Chain E2:



• Molecule 1: Allophycocyanin alpha subunit

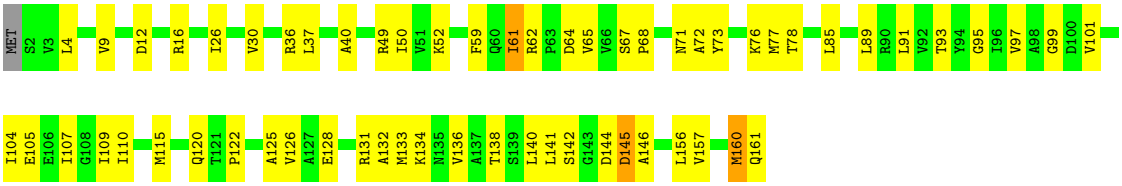
Chain G2:





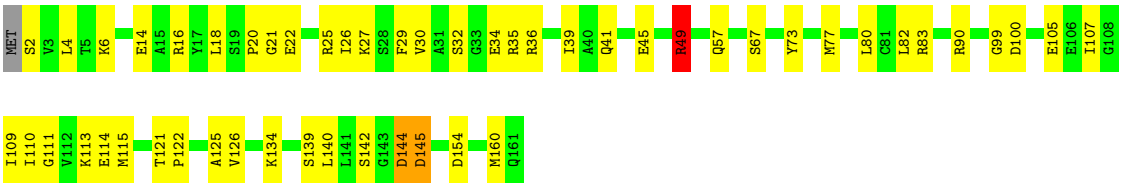
• Molecule 1: Allophycocyanin alpha subunit

Chain I2:



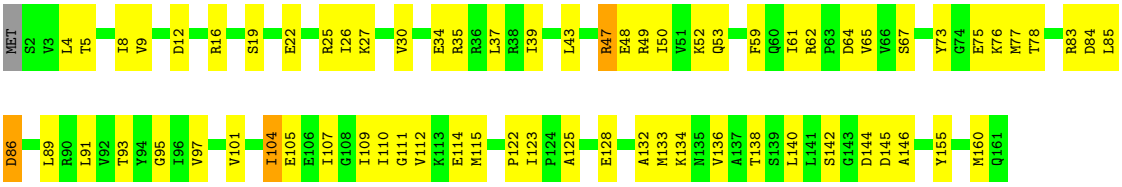
• Molecule 1: Allophycocyanin alpha subunit

Chain K2:



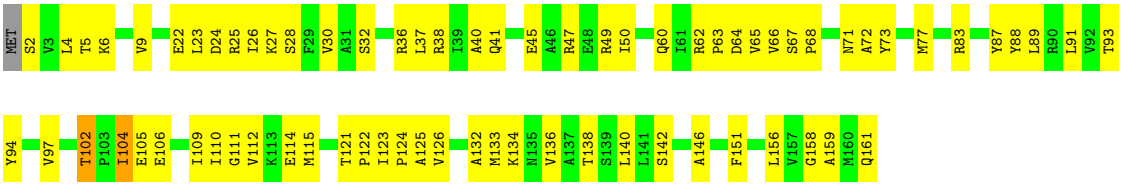
• Molecule 1: Allophycocyanin alpha subunit

Chain M2:



• Molecule 1: Allophycocyanin alpha subunit

Chain O2:

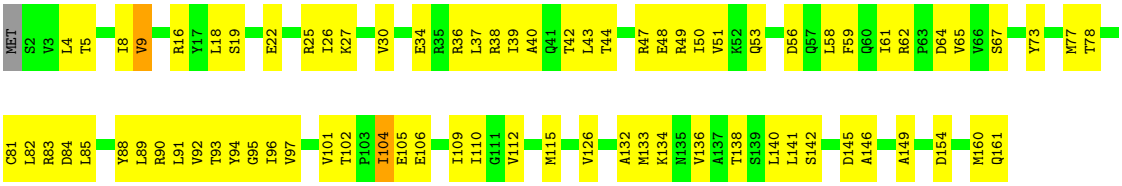


• Molecule 1: Allophycocyanin alpha subunit

Chain Q2:

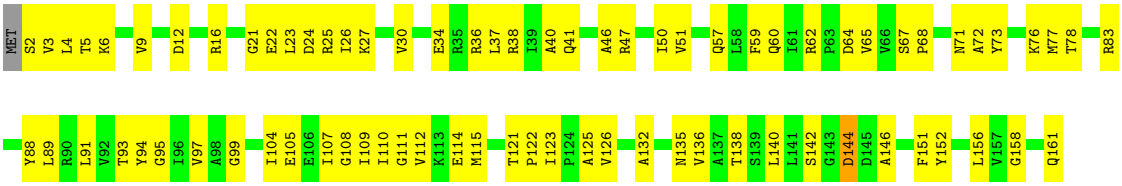
• Molecule 1: Allophycocyanin alpha subunit

Chain S2:



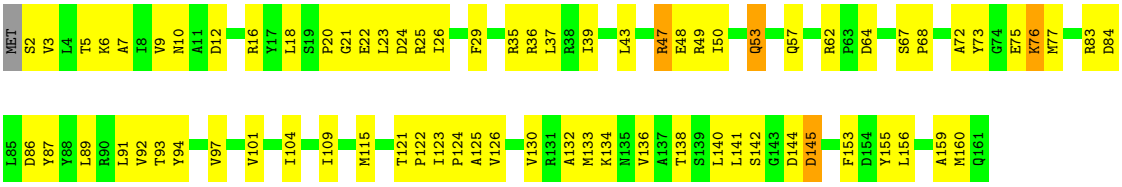
• Molecule 1: Allophycocyanin alpha subunit

Chain U2:



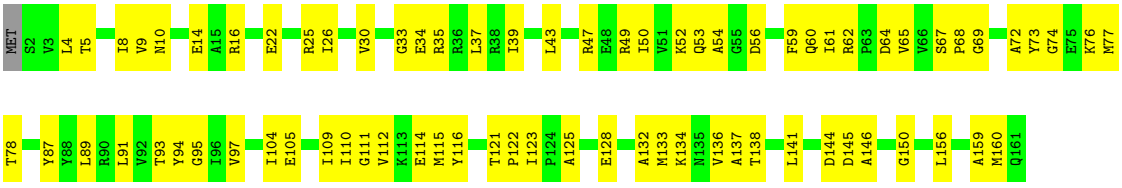
• Molecule 1: Allophycocyanin alpha subunit

Chain W2:



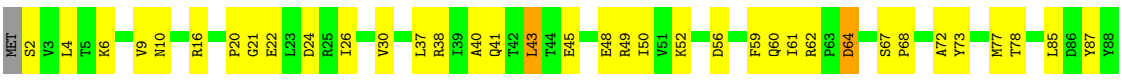
• Molecule 1: Allophycocyanin alpha subunit

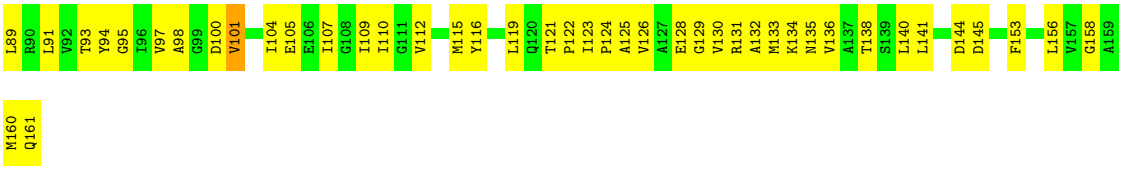
Chain Y2:



• Molecule 1: Allophycocyanin alpha subunit

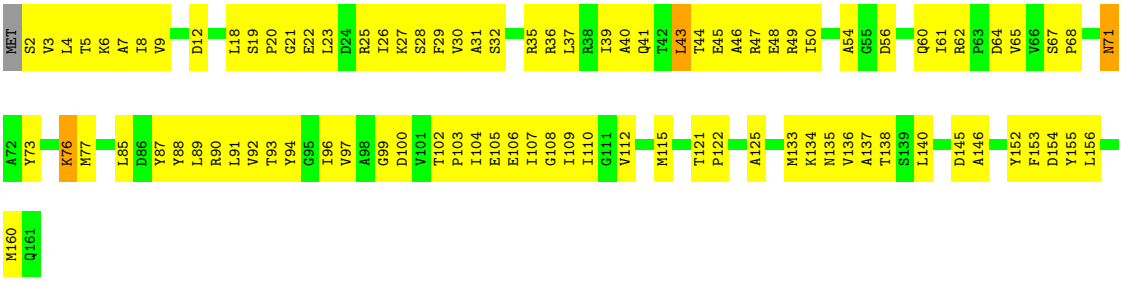
Chain a2:





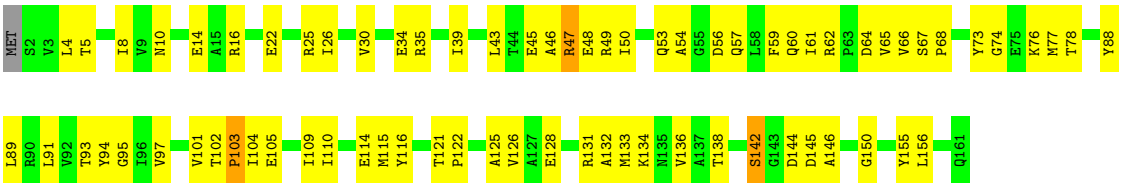
• Molecule 1: Allophycocyanin alpha subunit

Chain c2:



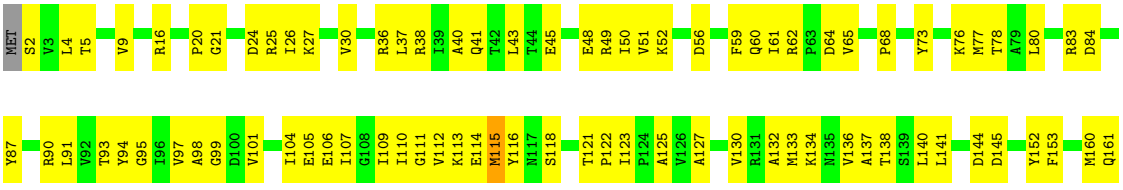
• Molecule 1: Allophycocyanin alpha subunit

Chain e2:



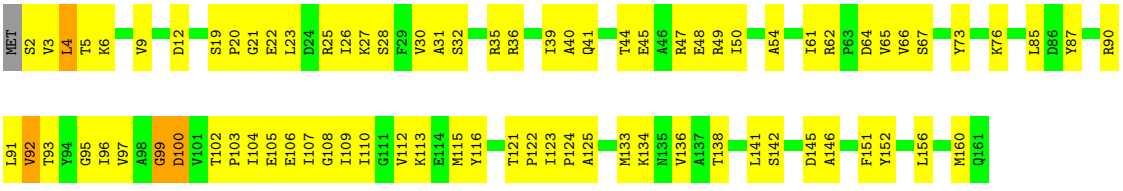
• Molecule 1: Allophycocyanin alpha subunit

Chain g2:



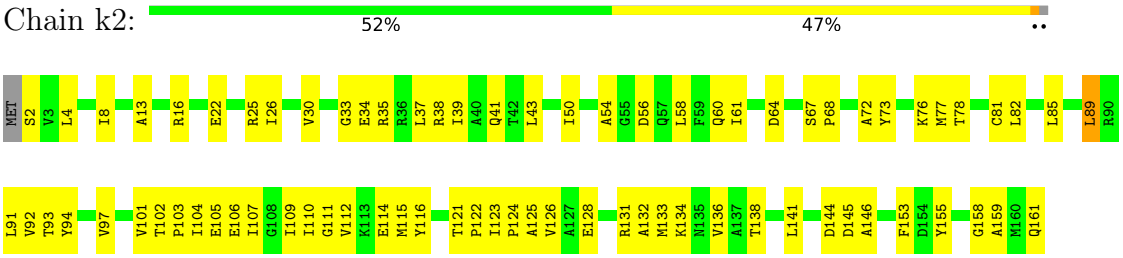
• Molecule 1: Allophycocyanin alpha subunit

Chain i2:



• Molecule 1: Allophycocyanin alpha subunit

Chain k2:

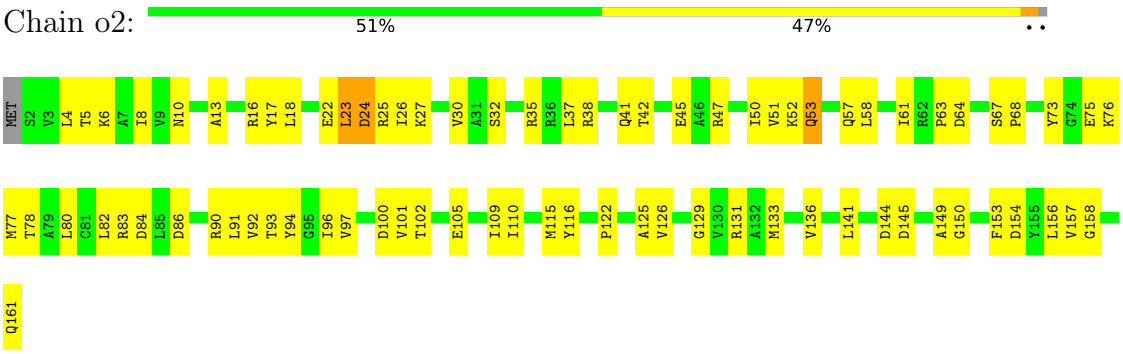


• Molecule 1: Allophycocyanin alpha subunit

Chain m2:

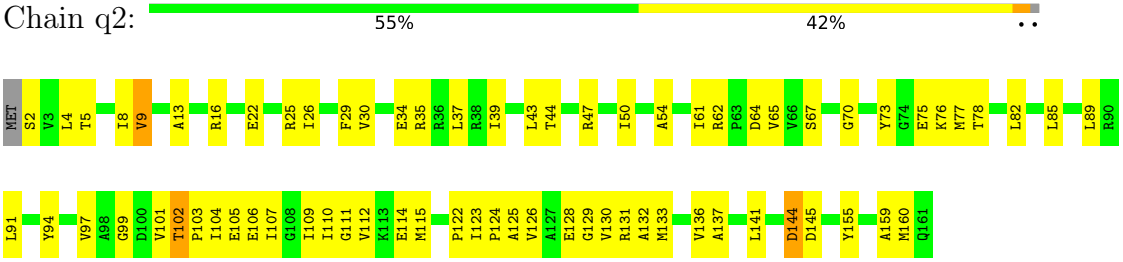
• Molecule 1: Allophycocyanin alpha subunit

Chain o2:



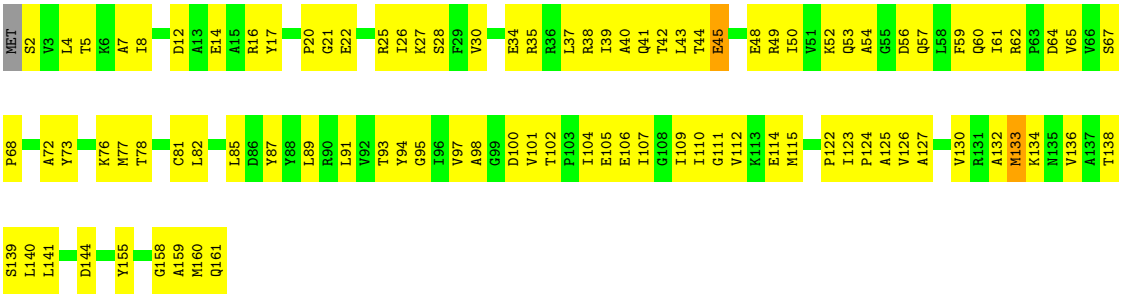
• Molecule 1: Allophycocyanin alpha subunit

Chain q2:



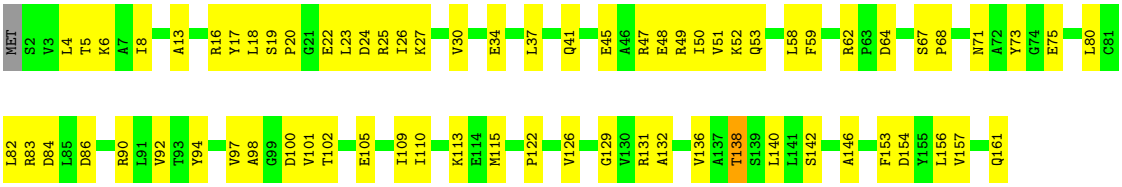
• Molecule 1: Allophycocyanin alpha subunit

Chain s2:



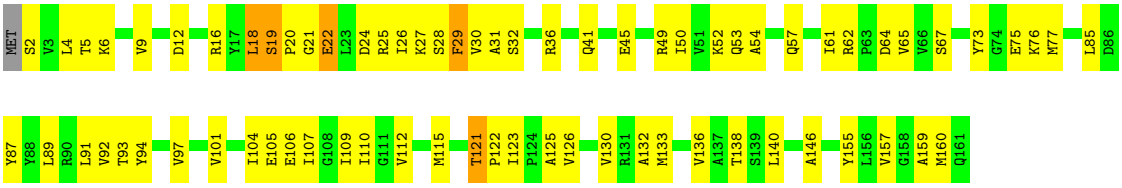
• Molecule 1: Allophycocyanin alpha subunit

Chain u2:



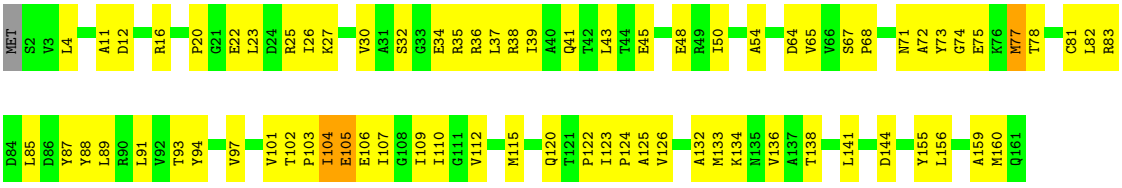
• Molecule 1: Allophycocyanin alpha subunit

Chain A3:



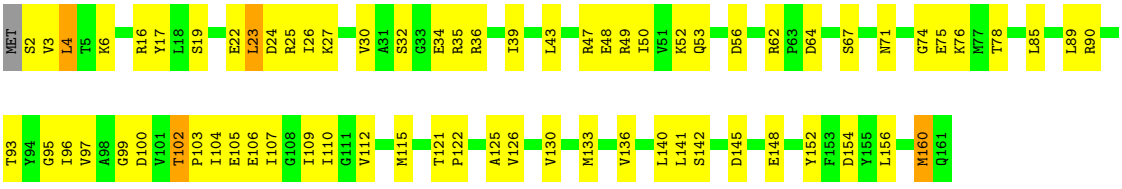
• Molecule 1: Allophycocyanin alpha subunit

Chain C3:



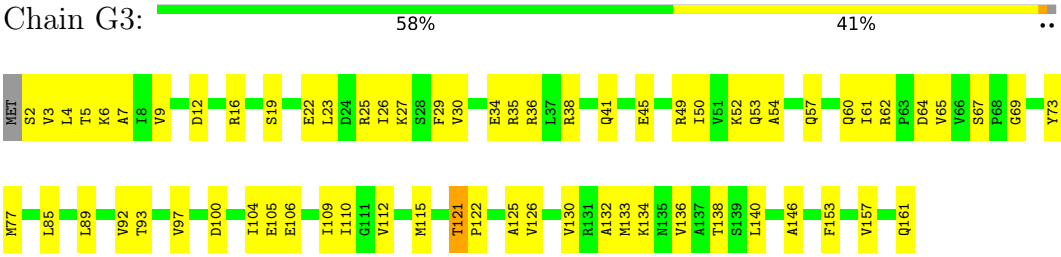
• Molecule 1: Allophycocyanin alpha subunit

Chain E3:



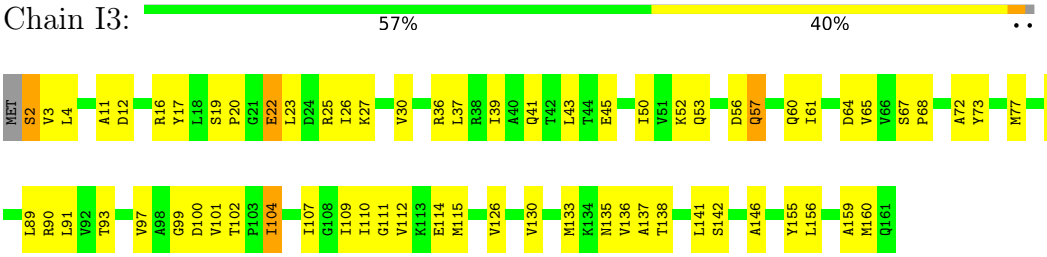
• Molecule 1: Allophycocyanin alpha subunit

Chain G3:



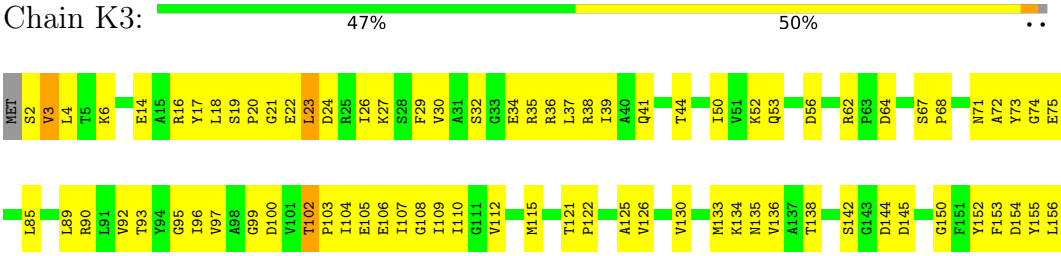
• Molecule 1: Allophycocyanin alpha subunit

Chain I3:



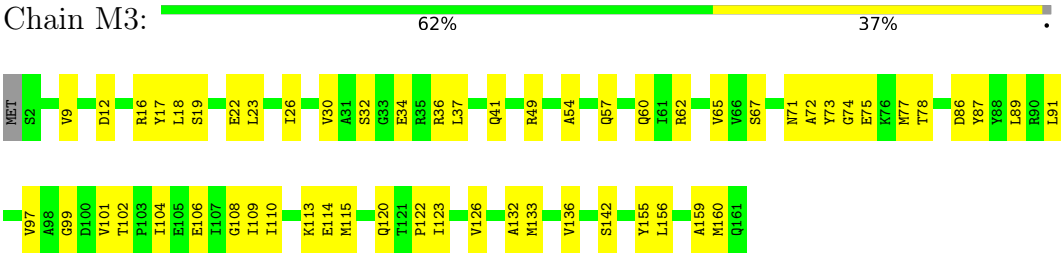
• Molecule 1: Allophycocyanin alpha subunit

Chain K3:



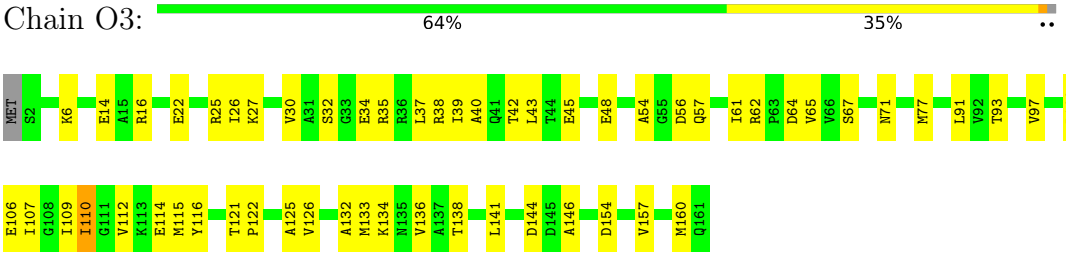
• Molecule 1: Allophycocyanin alpha subunit

Chain M3:



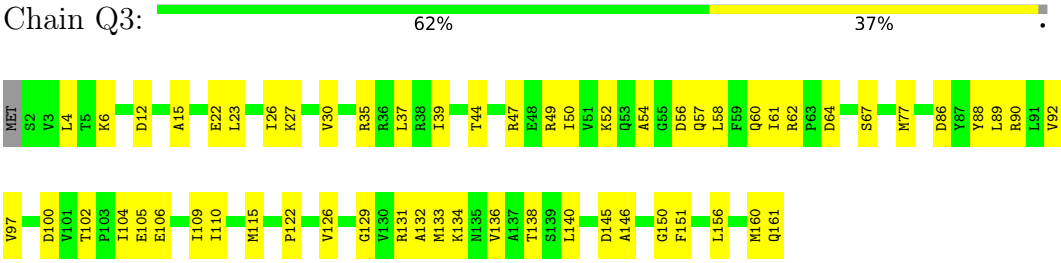
• Molecule 1: Allophycocyanin alpha subunit

Chain O3:



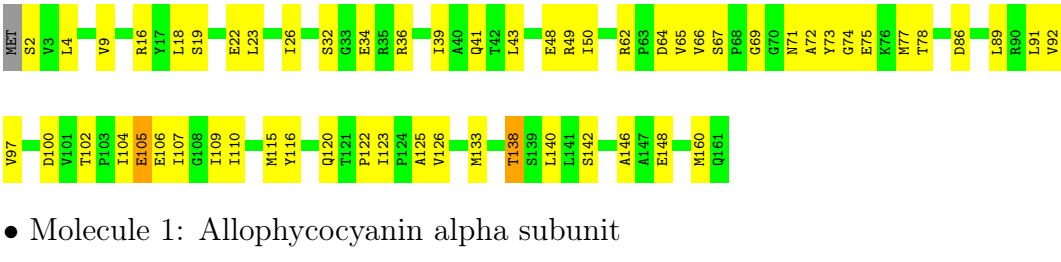
• Molecule 1: Allophycocyanin alpha subunit

Chain Q3:



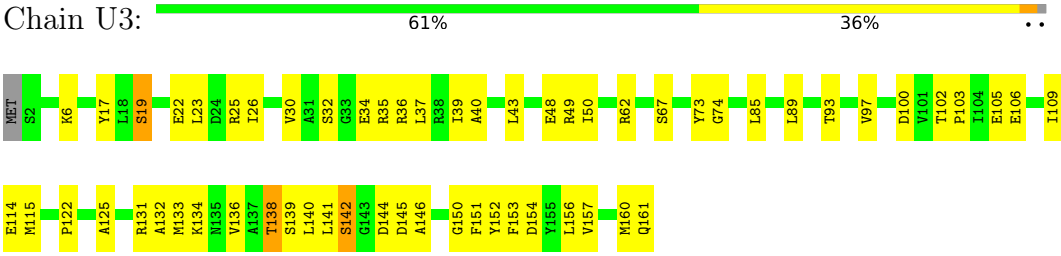
• Molecule 1: Allophycocyanin alpha subunit

Chain S3:



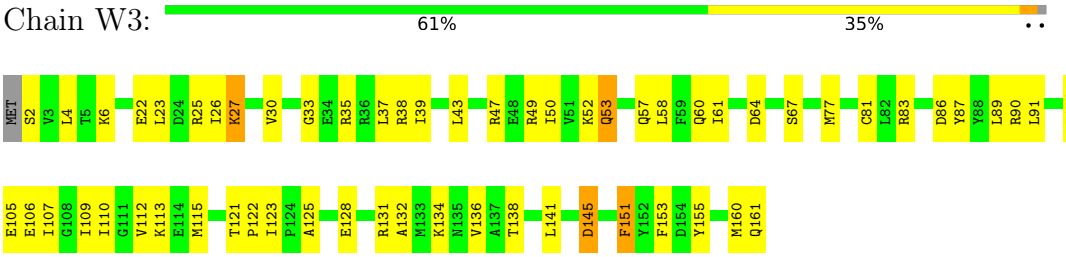
• Molecule 1: Allophycocyanin alpha subunit

Chain U3:



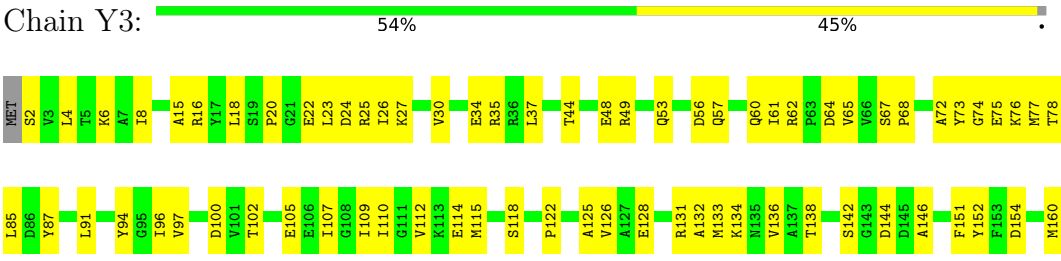
• Molecule 1: Allophycocyanin alpha subunit

Chain W3:



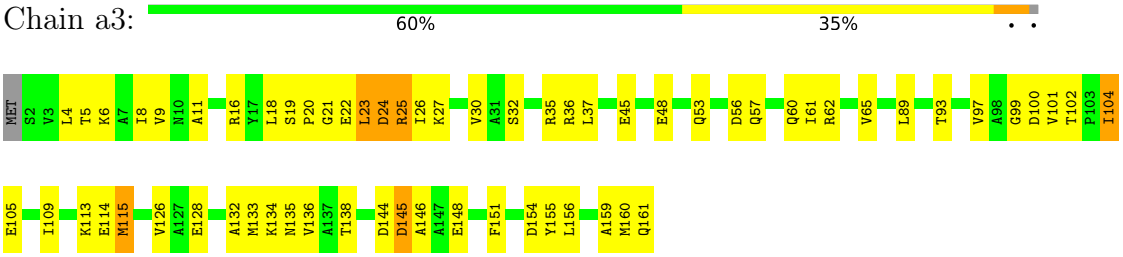
• Molecule 1: Allophycocyanin alpha subunit

Chain Y3:



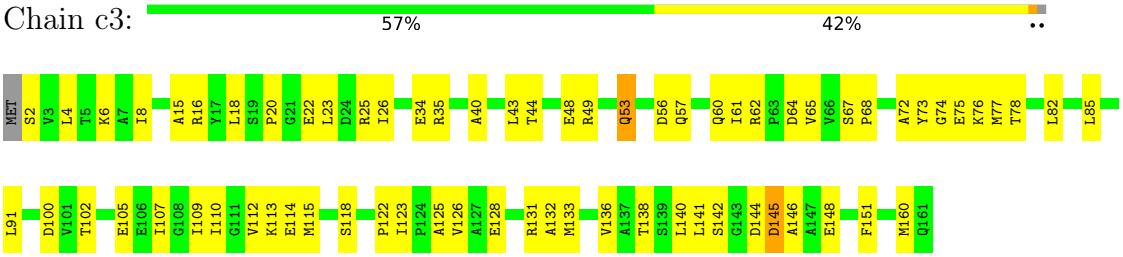
• Molecule 1: Allophycocyanin alpha subunit

Chain a3:



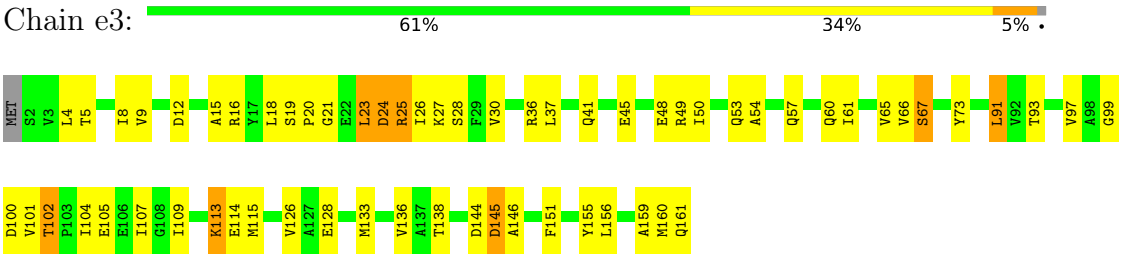
• Molecule 1: Allophycocyanin alpha subunit

Chain c3:



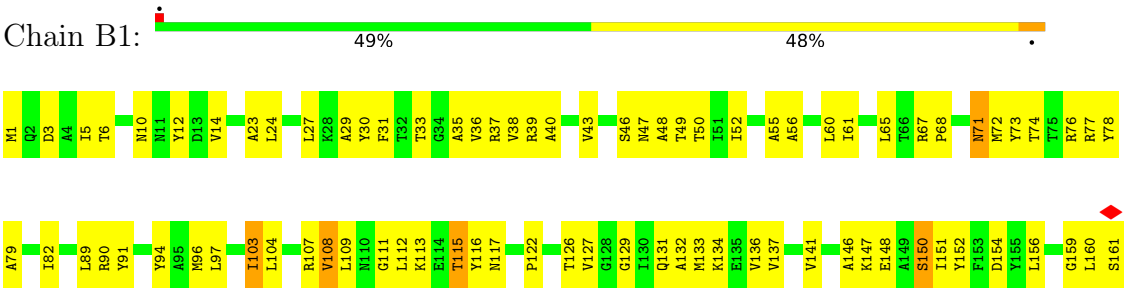
• Molecule 1: Allophycocyanin alpha subunit

Chain e3:



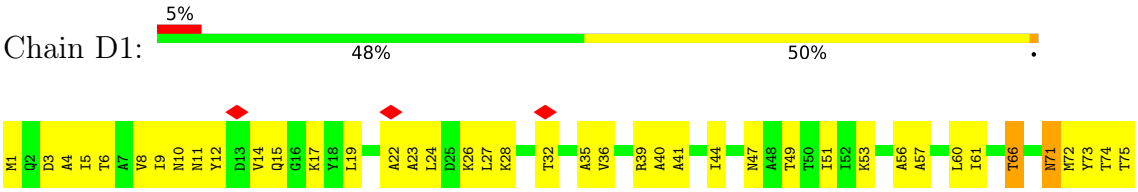
• Molecule 2: Allophycocyanin beta subunit

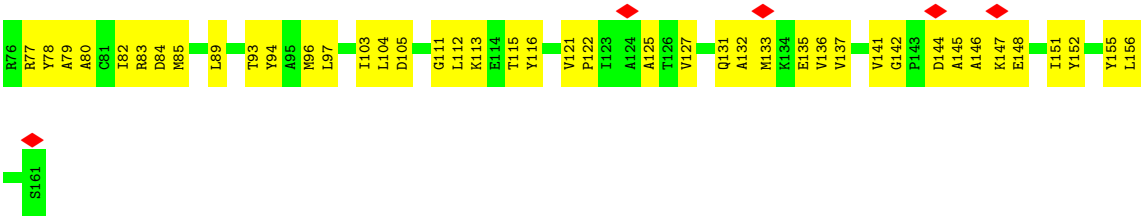
Chain B1:



• Molecule 2: Allophycocyanin beta subunit

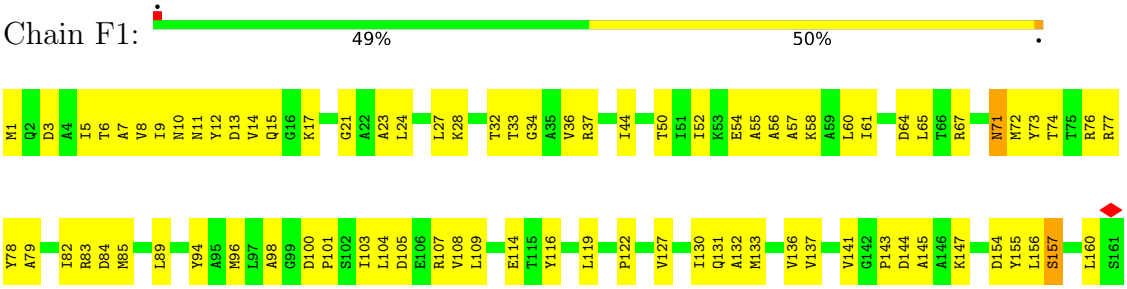
Chain D1:





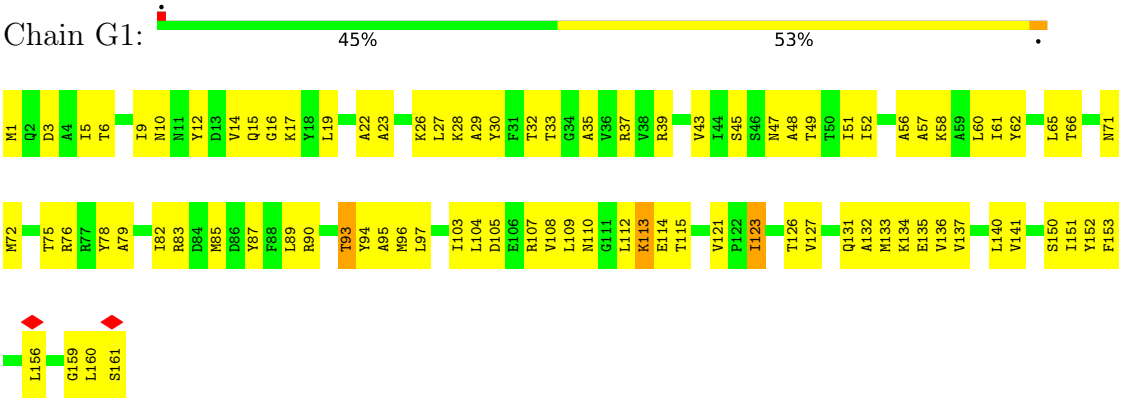
• Molecule 2: Allophycocyanin beta subunit

Chain F1:



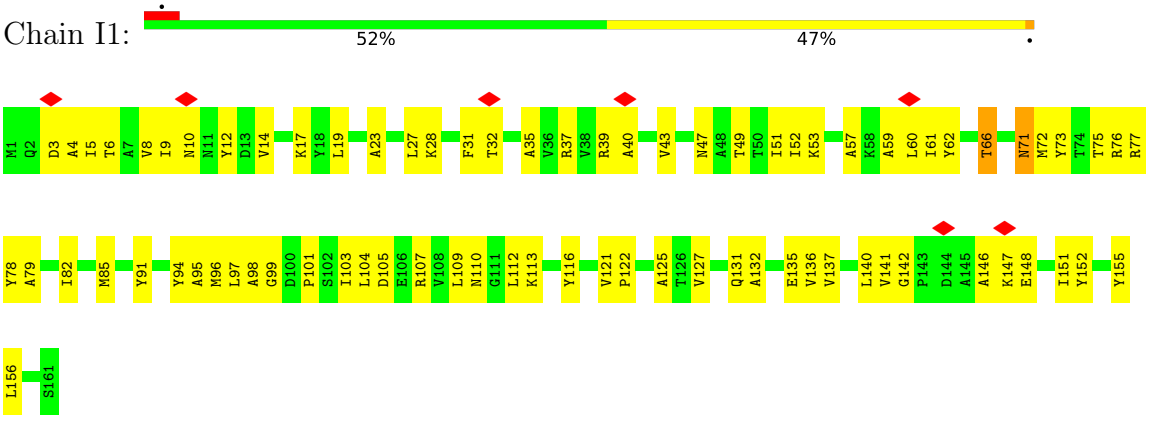
• Molecule 2: Allophycocyanin beta subunit

Chain G1:



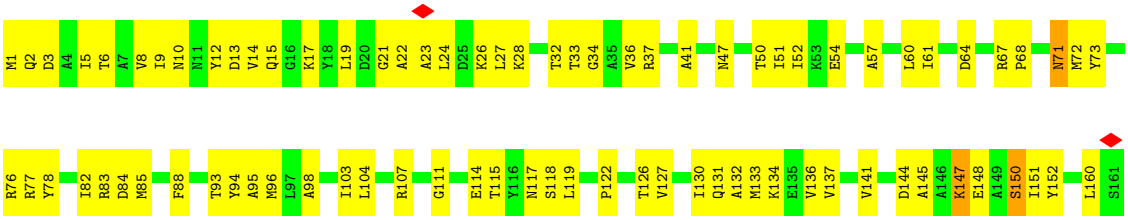
• Molecule 2: Allophycocyanin beta subunit

Chain I1:



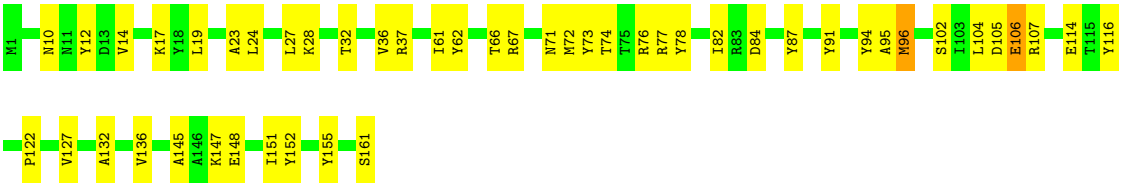
• Molecule 2: Allophycocyanin beta subunit

Chain J1:



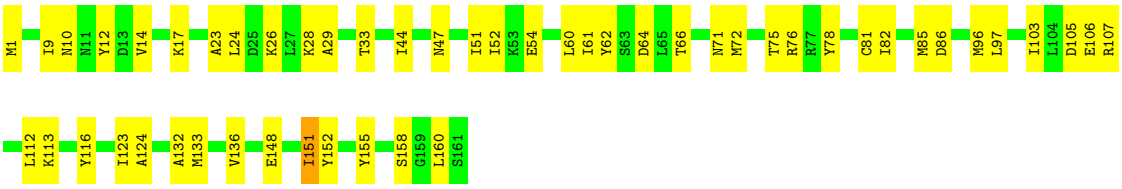
• Molecule 2: Allophycocyanin beta subunit

Chain B2:



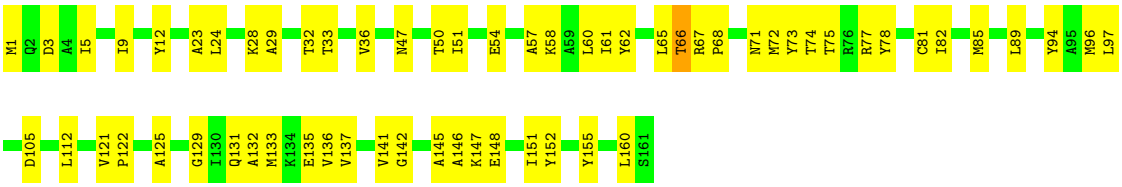
• Molecule 2: Allophycocyanin beta subunit

Chain D2:



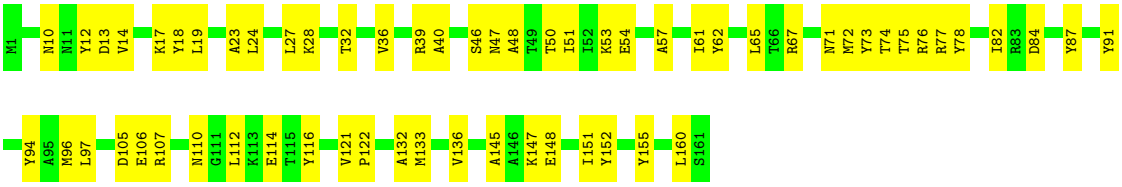
• Molecule 2: Allophycocyanin beta subunit

Chain F2:



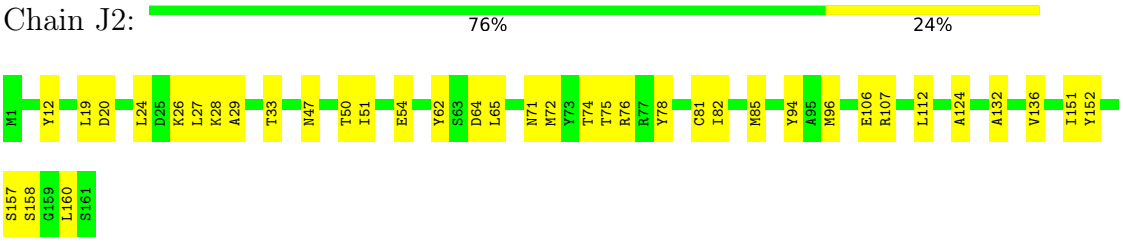
• Molecule 2: Allophycocyanin beta subunit

Chain H2:



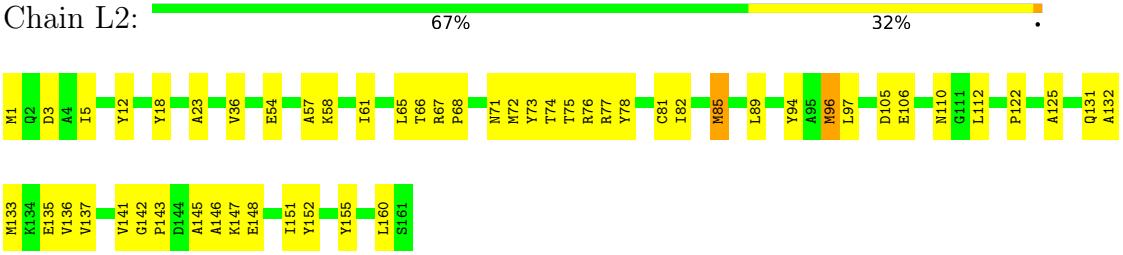
• Molecule 2: Allophycocyanin beta subunit

Chain J2:



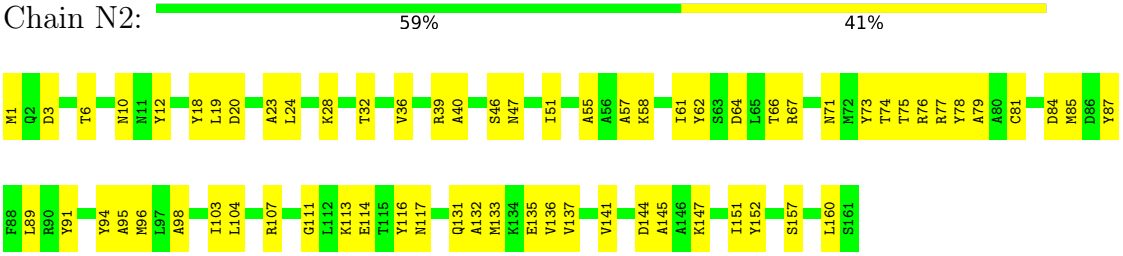
• Molecule 2: Allophycocyanin beta subunit

Chain L2:



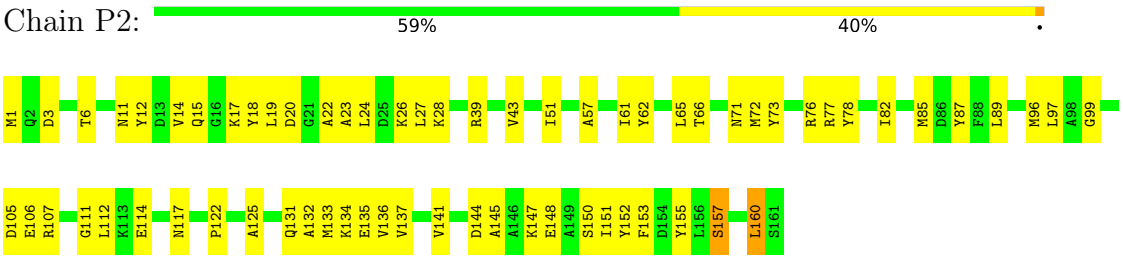
• Molecule 2: Allophycocyanin beta subunit

Chain N2:



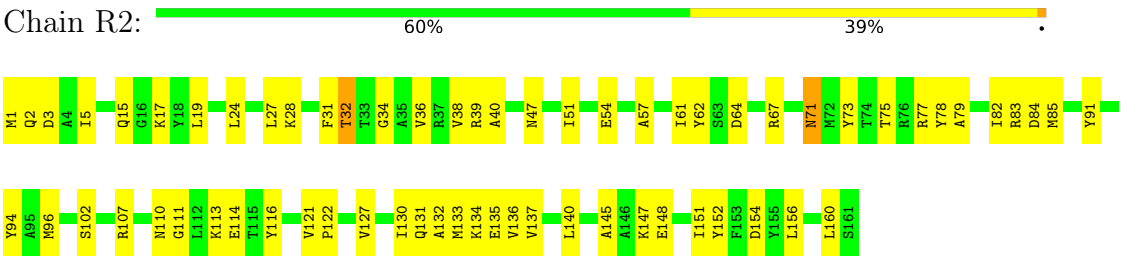
• Molecule 2: Allophycocyanin beta subunit

Chain P2:



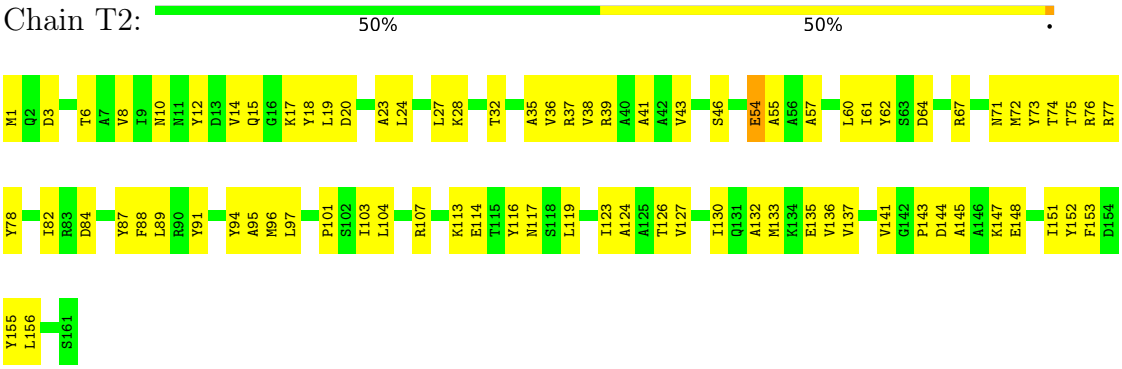
• Molecule 2: Allophycocyanin beta subunit

Chain R2:



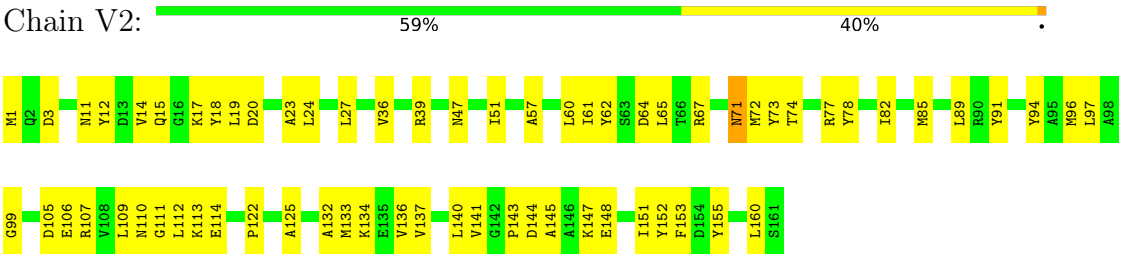
• Molecule 2: Allophycocyanin beta subunit

Chain T2:



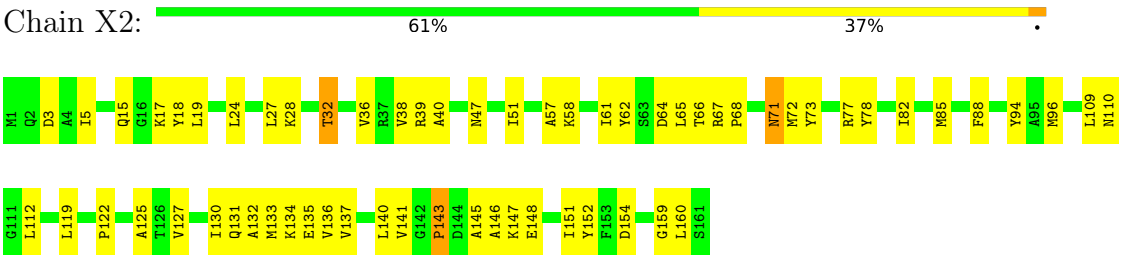
• Molecule 2: Allophycocyanin beta subunit

Chain V2:



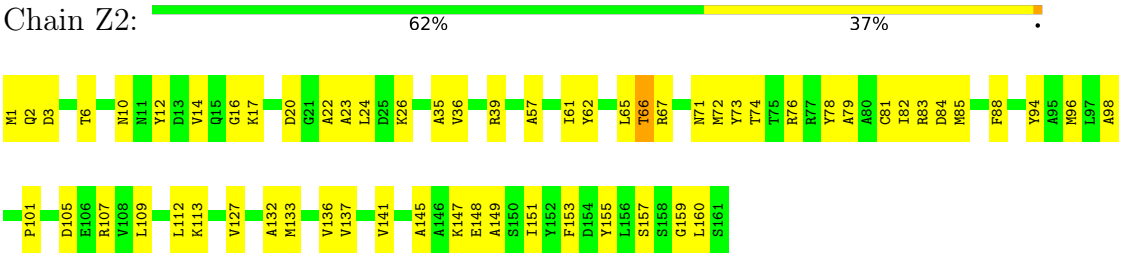
• Molecule 2: Allophycocyanin beta subunit

Chain X2:



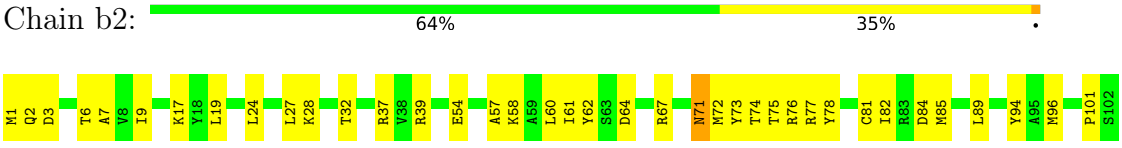
• Molecule 2: Allophycocyanin beta subunit

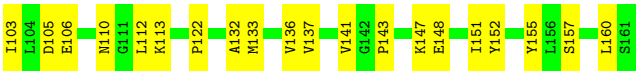
Chain Z2:



• Molecule 2: Allophycocyanin beta subunit

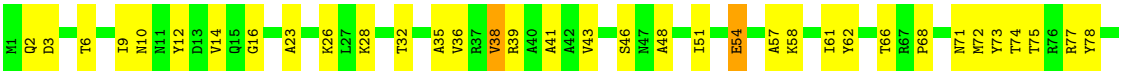
Chain b2:

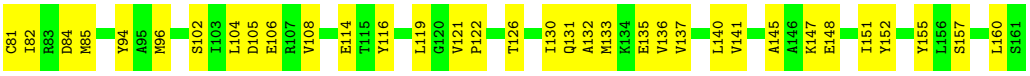




• Molecule 2: Allophycocyanin beta subunit

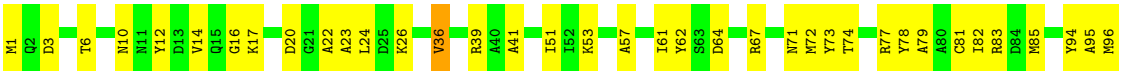
Chain d2:

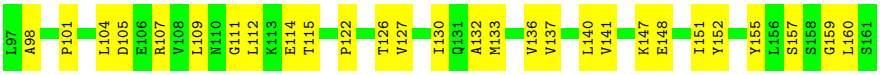




• Molecule 2: Allophycocyanin beta subunit

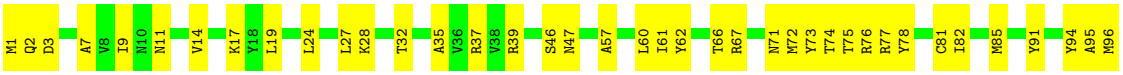
Chain f2:

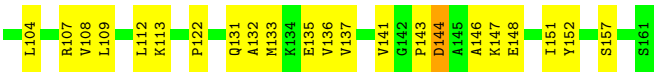




• Molecule 2: Allophycocyanin beta subunit

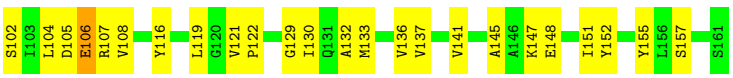
Chain h2:





• Molecule 2: Allophycocyanin beta subunit

Chain j2:

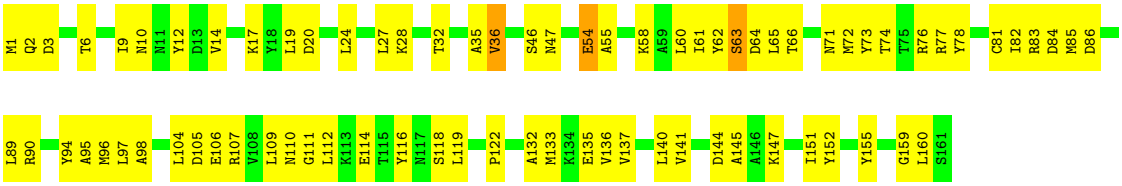


• Molecule 2: Allophycocyanin beta subunit

Chain l2:

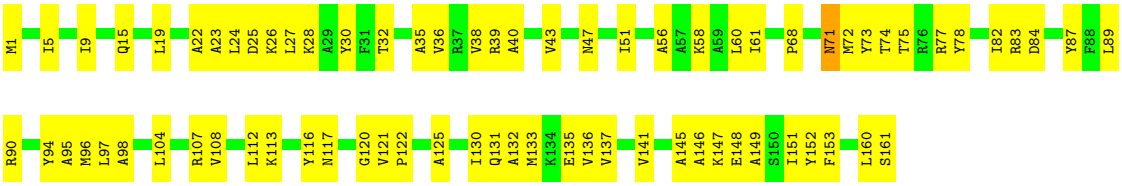
• Molecule 2: Allophycocyanin beta subunit

Chain n2:



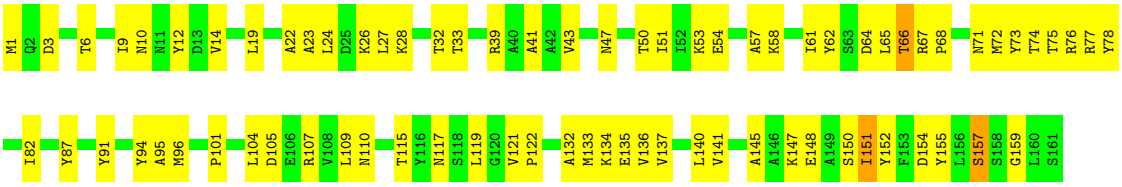
• Molecule 2: Allophycocyanin beta subunit

Chain p2:



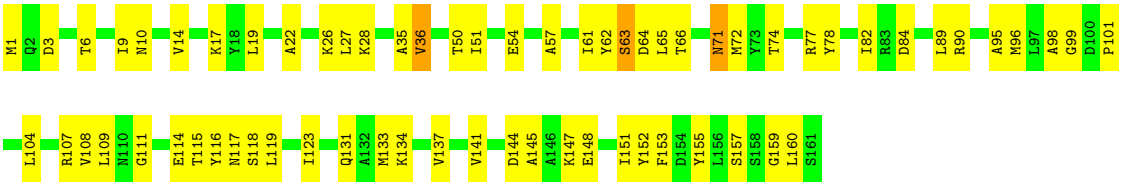
• Molecule 2: Allophycocyanin beta subunit

Chain r2:



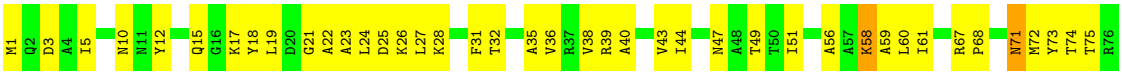
• Molecule 2: Allophycocyanin beta subunit

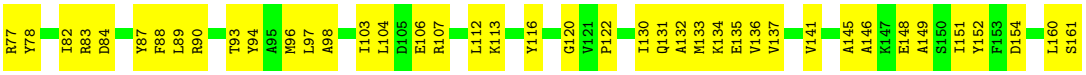
Chain t2:



• Molecule 2: Allophycocyanin beta subunit

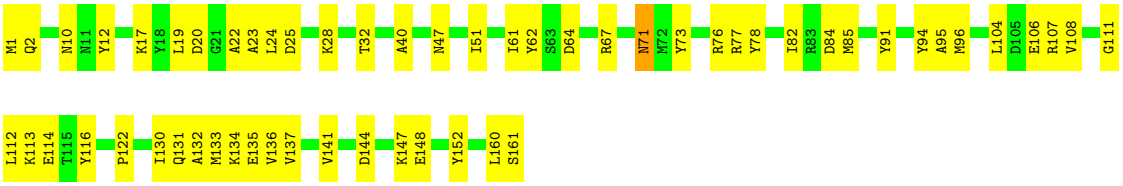
Chain v2:





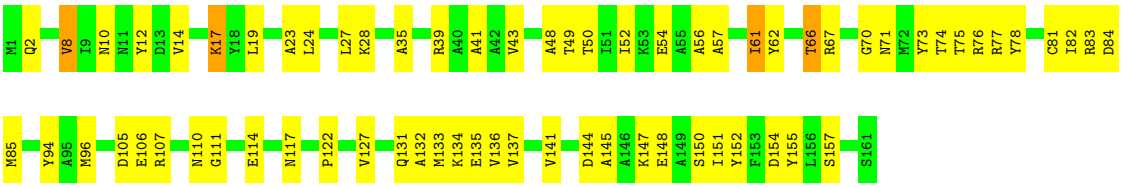
• Molecule 2: Allophycocyanin beta subunit

Chain B3:



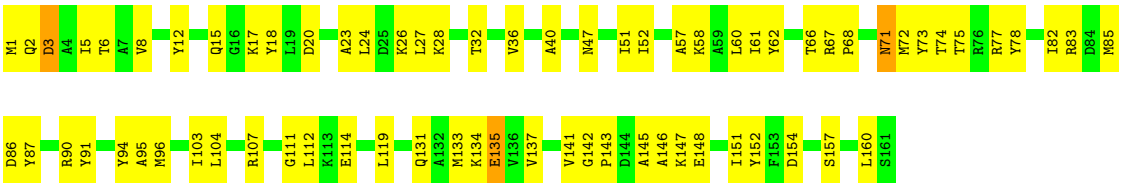
• Molecule 2: Allophycocyanin beta subunit

Chain D3:



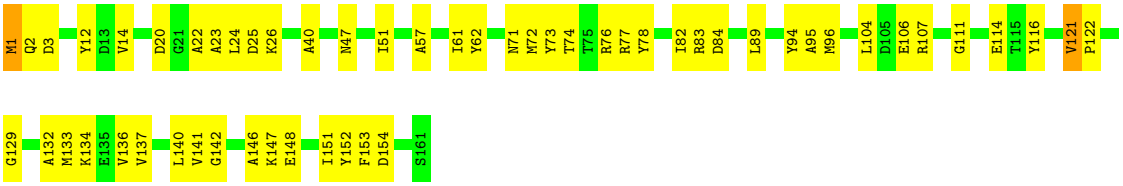
• Molecule 2: Allophycocyanin beta subunit

Chain F3:



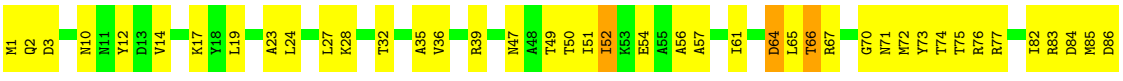
• Molecule 2: Allophycocyanin beta subunit

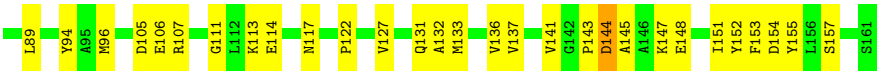
Chain H3:



• Molecule 2: Allophycocyanin beta subunit

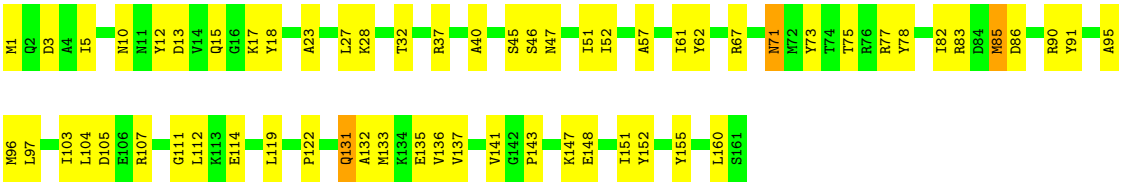
Chain J3:





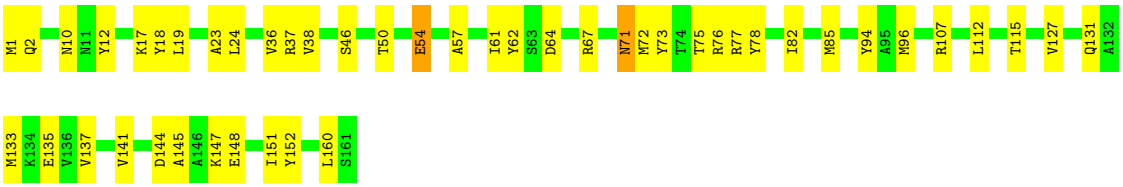
• Molecule 2: Allophycocyanin beta subunit

Chain L3:



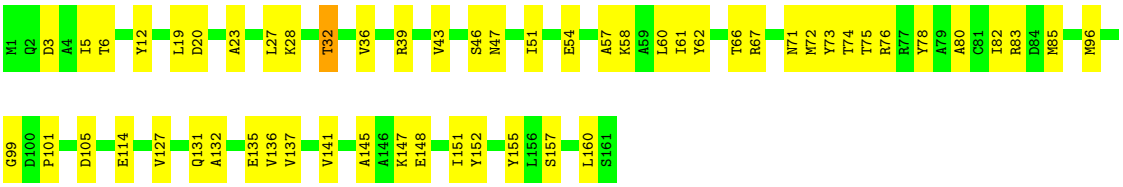
• Molecule 2: Allophycocyanin beta subunit

Chain N3:



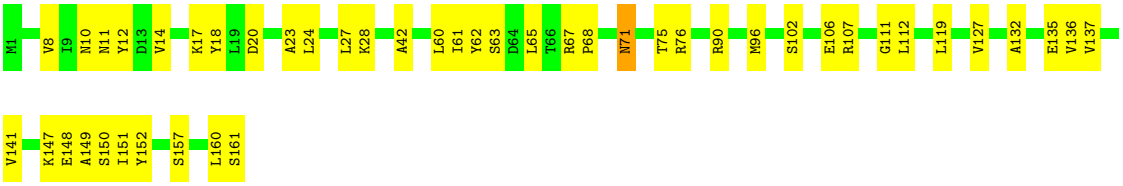
• Molecule 2: Allophycocyanin beta subunit

Chain P3:



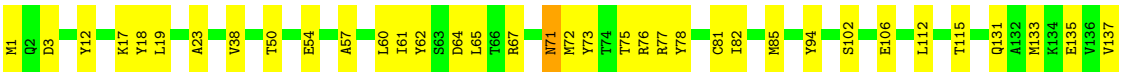
• Molecule 2: Allophycocyanin beta subunit

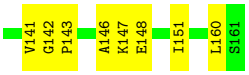
Chain R3:



• Molecule 2: Allophycocyanin beta subunit

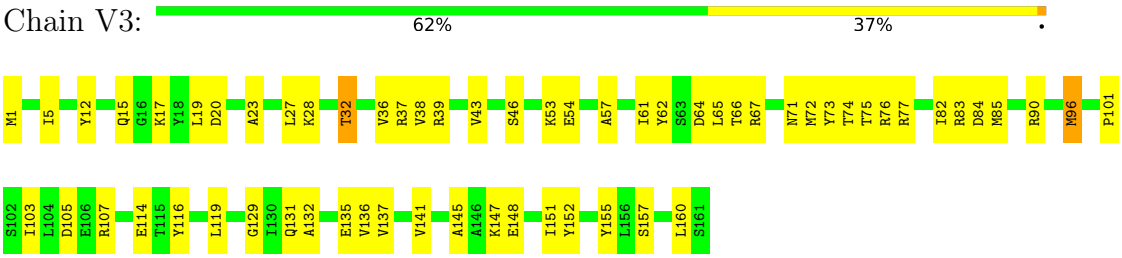
Chain T3:





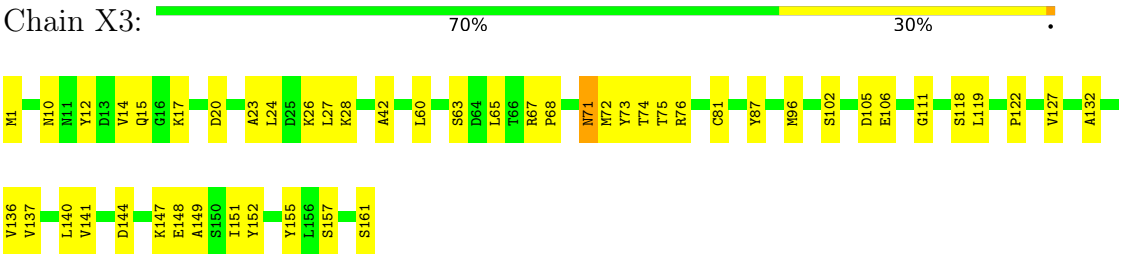
• Molecule 2: Allophycocyanin beta subunit

Chain V3:



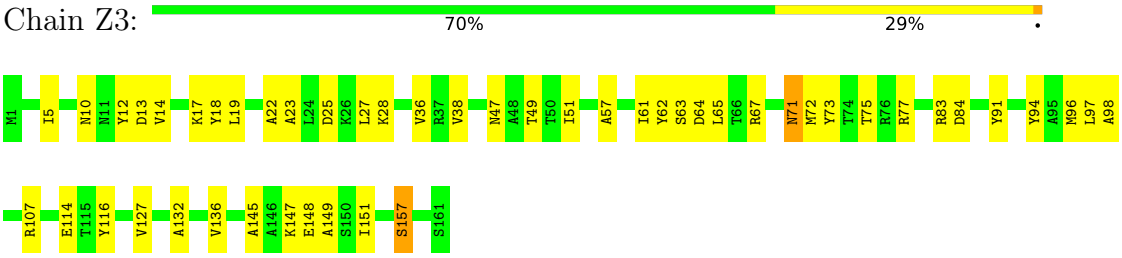
• Molecule 2: Allophycocyanin beta subunit

Chain X3:



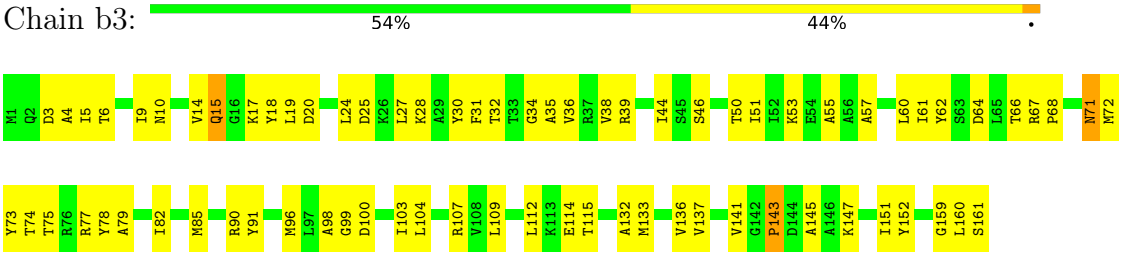
• Molecule 2: Allophycocyanin beta subunit

Chain Z3:



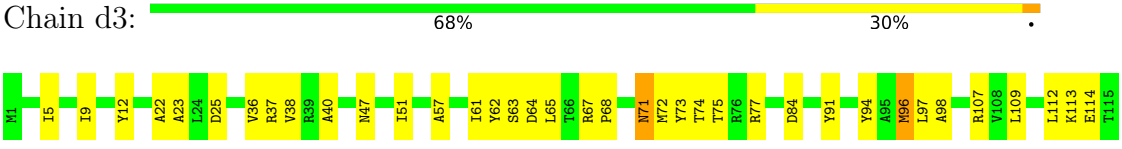
• Molecule 2: Allophycocyanin beta subunit

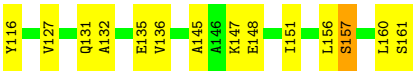
Chain b3:



• Molecule 2: Allophycocyanin beta subunit

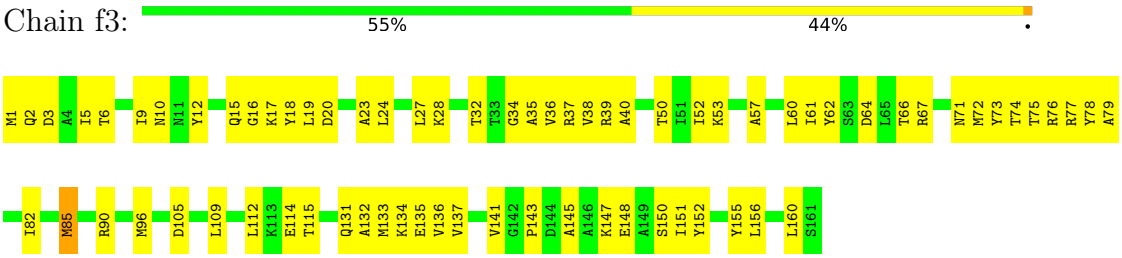
Chain d3:





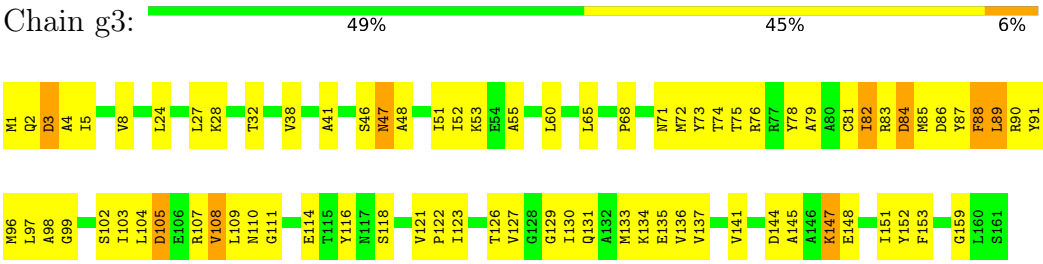
• Molecule 2: Allophycocyanin beta subunit

Chain f3:



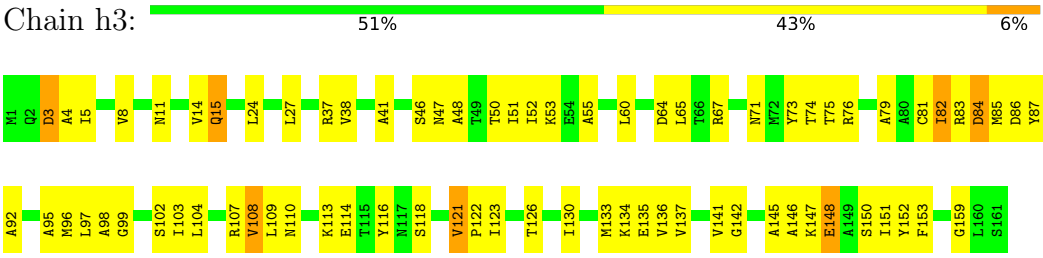
• Molecule 2: Allophycocyanin beta subunit

Chain g3:



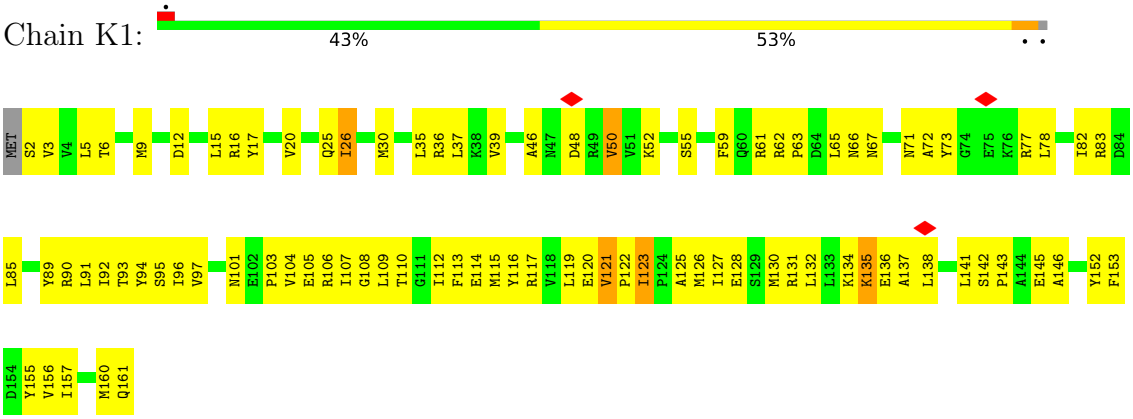
• Molecule 2: Allophycocyanin beta subunit

Chain h3:



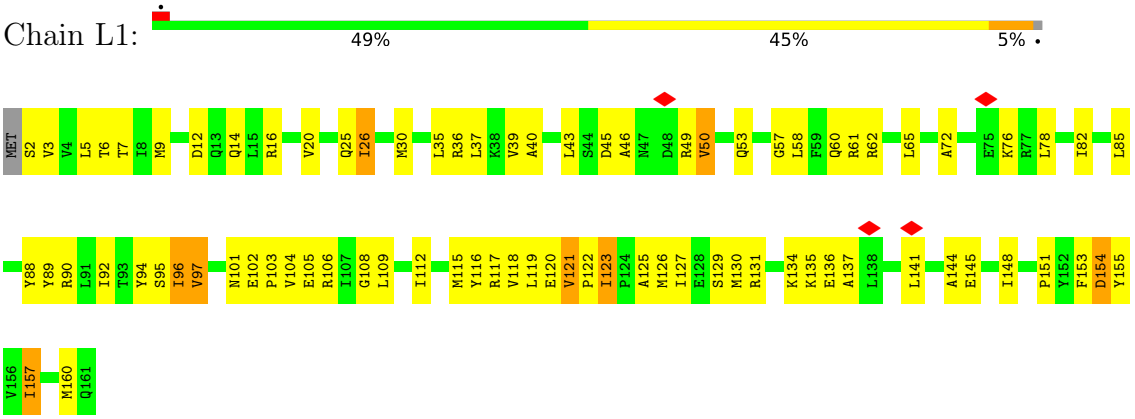
• Molecule 3: Allophycocyanin-B

Chain K1:



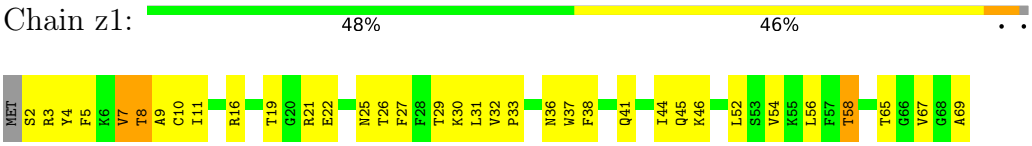
• Molecule 3: Allophycocyanin-B

Chain L1:



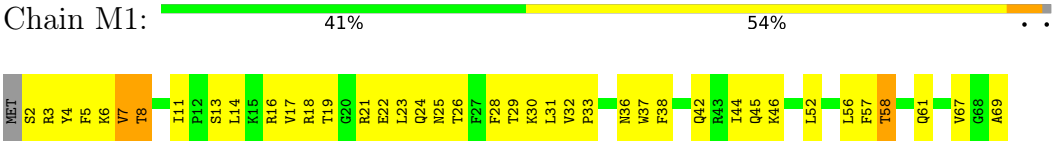
• Molecule 4: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain z1:



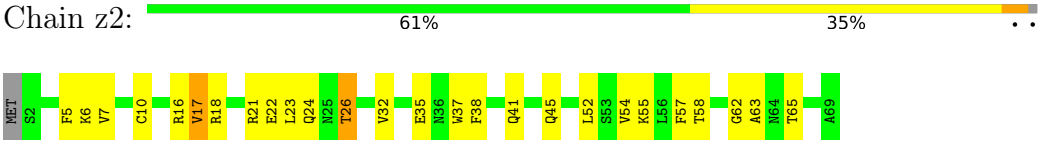
• Molecule 4: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain M1:



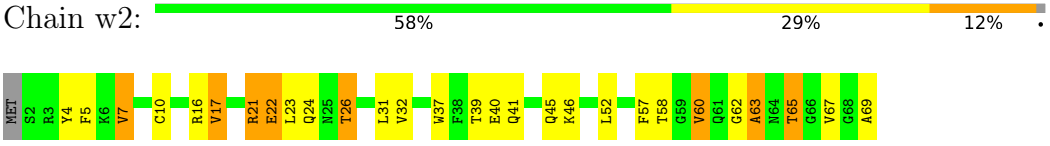
• Molecule 4: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain z2:



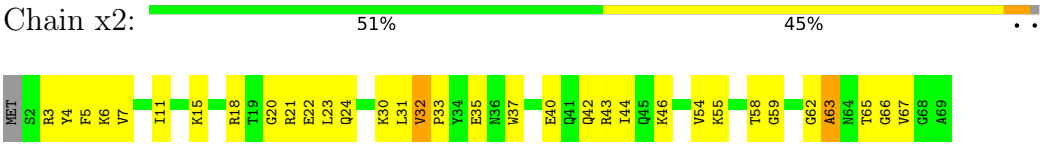
• Molecule 4: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain w2:



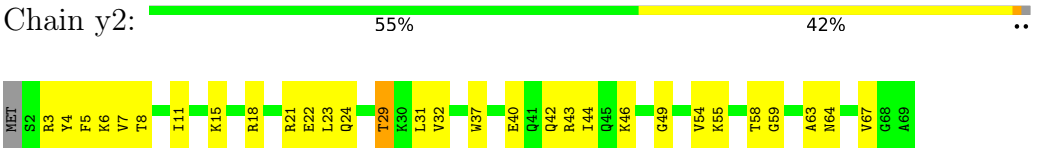
• Molecule 4: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain x2:



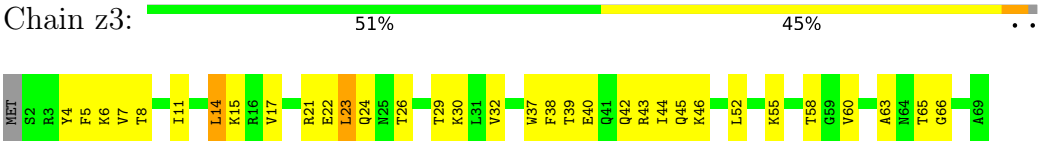
• Molecule 4: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain y2:



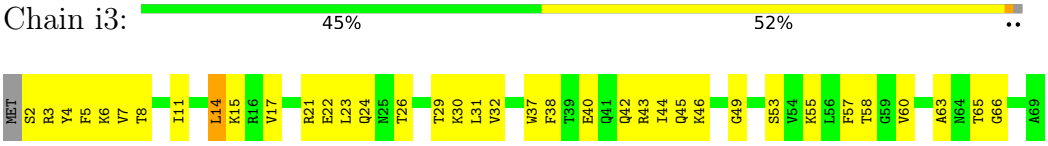
• Molecule 4: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

Chain z3:



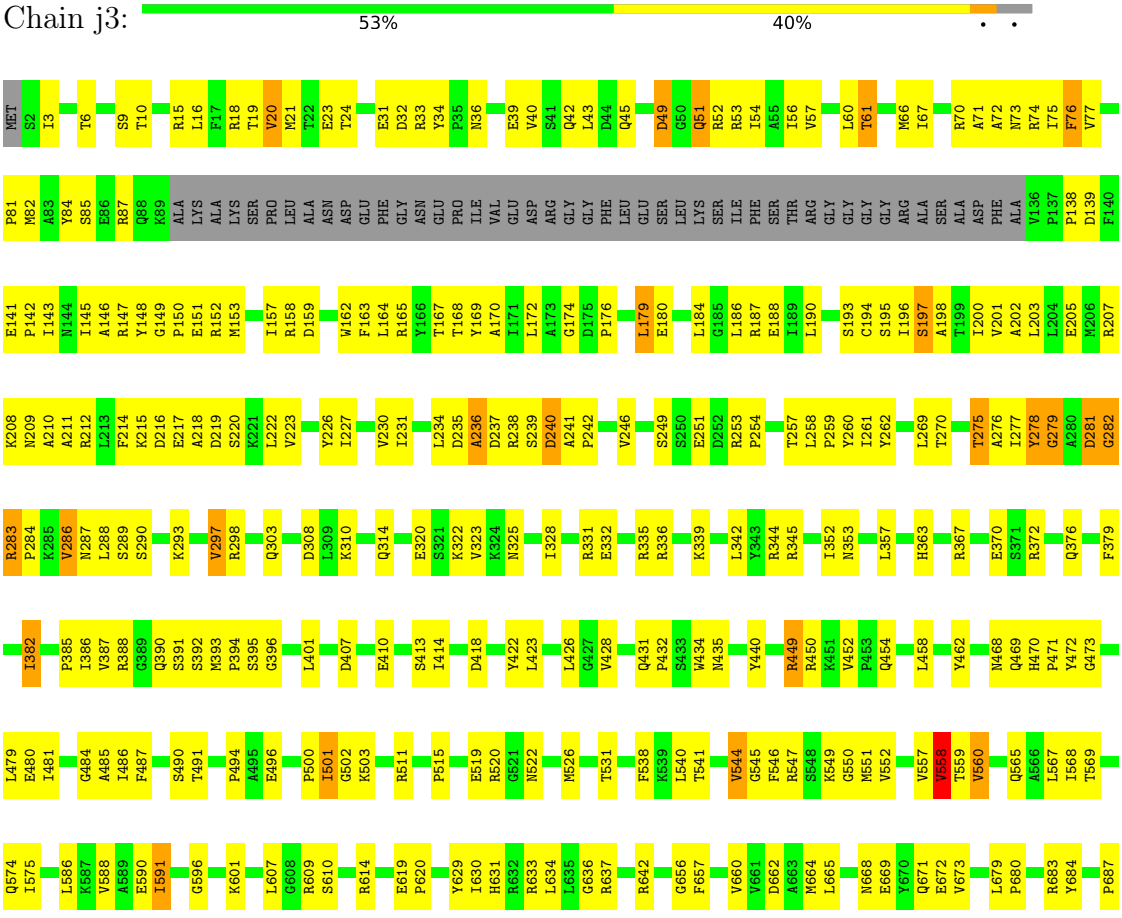
• Molecule 4: Phycobilisome 7.8 kDa linker polypeptide, allophycocyanin-associated, core

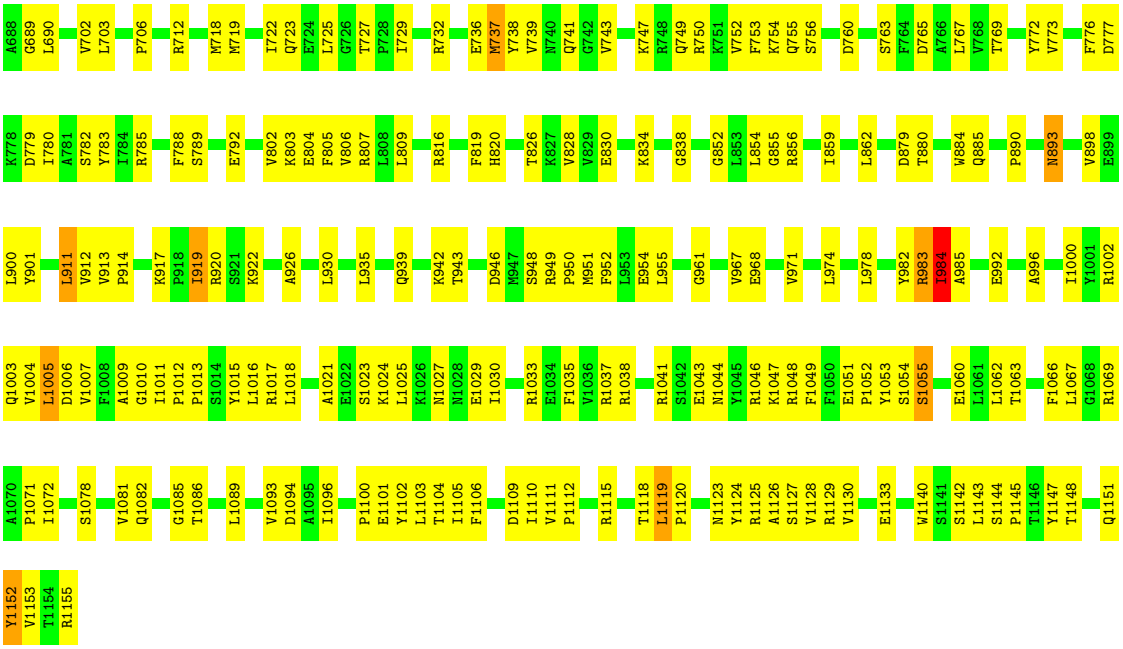
Chain i3:



• Molecule 5: Phycobiliprotein ApcE

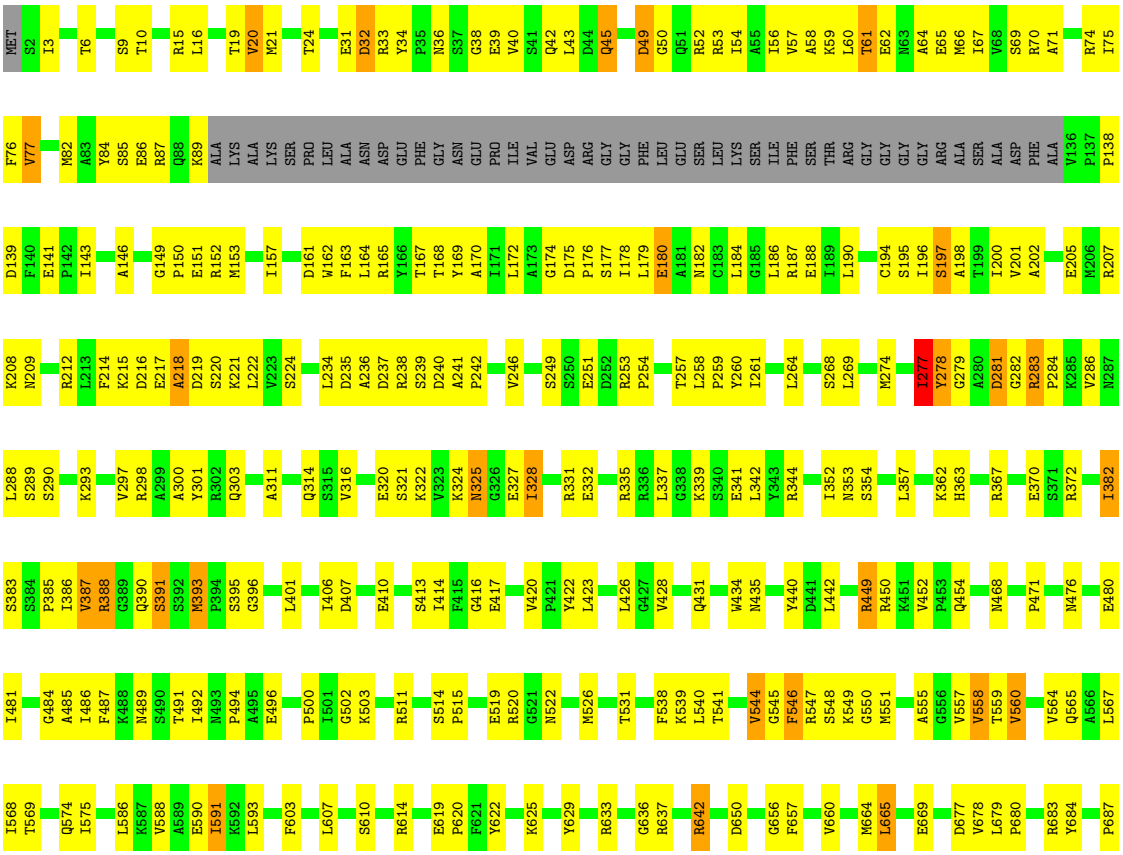
Chain j3:

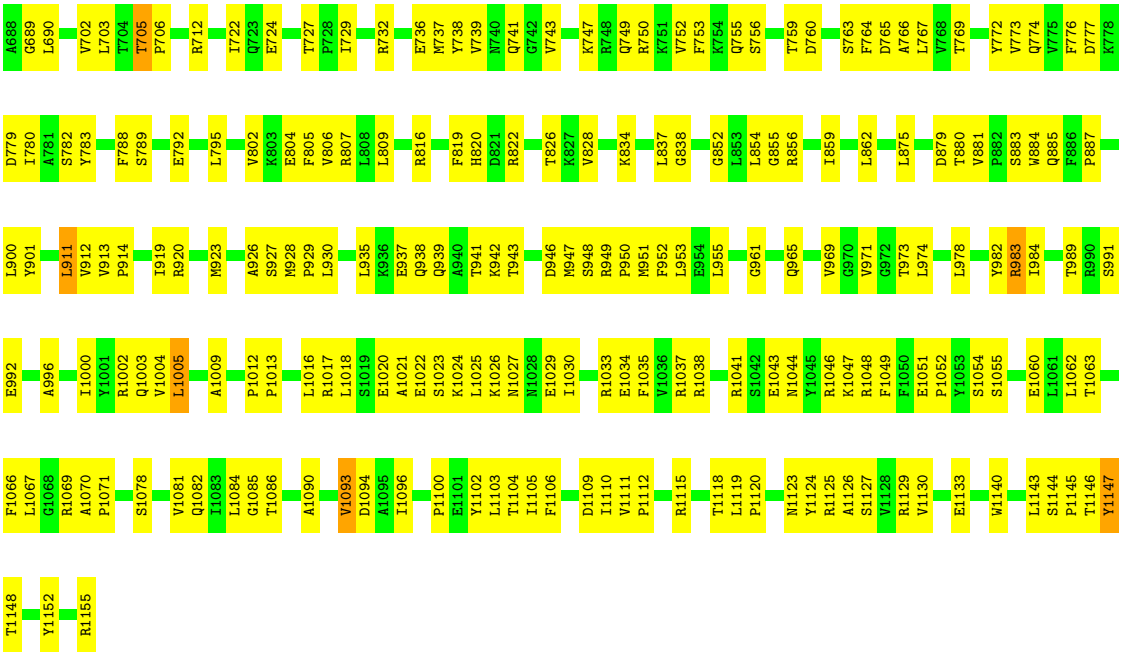




• Molecule 5: Phycobiliprotein ApcE

Chain k3:




A688 G689 L690 V702 L703 T704 T705 P706 R712 I722 Q723 E724 T727 P728 I729 R732 E736 M737 Y738 V739 N740 Q741 G742 V743 K747 R748 Q749 R750 K751 V752 F753 K754 Q755 S756 T759 D760 S763 F764 D765 A766 L767 V768 T769 Y772 V773 Q774 V775 F776 D777 K778
D779 I780 A781 S782 Y783 F788 S789 E792 L795 V802 K803 E804 F805 V806 R807 L808 L809 R816 F819 H820 D821 R822 T826 K827 V828 K834 L837 G838 G852 L853 L854 G855 R856 I859 L862 L875 D879 T880 V881 P882 S883 W884 Q885 F886 P887
L900 Y901 L911 V912 V913 P914 I919 R920 M923 A926 S927 M928 P929 L930 L935 K936 E937 Q938 Q939 A940 T941 K942 T943 D946 M947 S948 R949 P950 M951 F952 L953 E954 L955 G961 Q965 V969 G970 V971 G972 T973 L974 L978 Y982 R983 I984 T989 R990 S991
E992 A996 I1000 Y1001 R1002 Q1003 V1004 L1005 A1009 P1012 P1013 L1016 R1017 L1018 S1019 E1020 A1021 E1022 S1023 K1024 L1025 K1026 N1027 N1028 E1029 I1030 R1033 E1034 F1035 V1036 R1037 R1038 R1041 S1042 E1043 N1044 Y1045 R1046 K1047 R1048 F1049 F1050 E1051 P1052 Y1053 S1054 S1055 E1060 L1061 L1062 T1063
F1066 L1067 G1068 R1069 A1070 P1071 S1078 V1081 Q1082 I1083 L1084 G1085 T1086 A1090 V1093 D1094 A1095 I1096 P1100 E1101 Y1102 L1103 T1104 I1105 F1106 D1109 I1110 V1111 P1112 R1115 T1118 L1119 P1120 N1123 Y1124 R1125 A1126 S1127 V1128 R1129 V1130 E1133 W1140 L1143 S1144 P1145 T1146 Y1147
T1148 Y1152 R1155

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	192814	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 K3 (6k x 4k)	Depositor
Maximum map value	1.670	Depositor
Minimum map value	-0.518	Depositor
Average map value	0.007	Depositor
Map value standard deviation	0.066	Depositor
Recommended contour level	0.15	Depositor
Map size (Å)	636.78204, 636.78204, 636.78204	wwPDB
Map dimensions	580, 580, 580	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.0979, 1.0979, 1.0979	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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	A1	0.21	0/1239	0.50	0/1676
1	A2	0.21	0/1239	0.52	1/1676 (0.1%)
1	A3	0.44	1/1239 (0.1%)	0.69	4/1676 (0.2%)
1	C1	0.19	0/1239	0.50	1/1676 (0.1%)
1	C2	0.18	0/1239	0.44	0/1676
1	C3	0.19	0/1239	0.49	0/1676
1	E1	0.17	0/1239	0.43	0/1676
1	E2	0.22	0/1239	0.50	0/1676
1	E3	0.19	0/1239	0.47	0/1676
1	G2	0.19	0/1239	0.50	0/1676
1	G3	0.21	0/1239	0.50	0/1676
1	H1	0.20	0/1239	0.56	0/1676
1	I2	0.18	0/1239	0.46	0/1676
1	I3	0.22	0/1239	0.54	0/1676
1	K2	0.27	0/1239	0.58	0/1676
1	K3	0.22	0/1239	0.53	0/1676
1	M2	0.18	0/1239	0.50	0/1676
1	M3	0.25	0/1239	0.51	0/1676
1	O2	0.18	0/1239	0.48	0/1676
1	O3	0.20	0/1239	0.49	0/1676
1	Q2	0.21	0/1239	0.49	0/1676
1	Q3	0.20	0/1239	0.52	0/1676
1	S2	0.20	0/1239	0.51	0/1676
1	S3	0.25	0/1239	0.56	0/1676
1	U2	0.21	0/1239	0.53	0/1676
1	U3	0.21	0/1239	0.49	0/1676
1	W2	0.19	0/1239	0.48	0/1676
1	W3	0.19	0/1239	0.51	1/1676 (0.1%)
1	Y2	0.17	0/1239	0.48	0/1676
1	Y3	0.21	0/1239	0.50	0/1676
1	a2	0.17	0/1239	0.52	0/1676
1	a3	0.24	0/1239	0.58	3/1676 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	c2	0.20	0/1239	0.50	0/1676
1	c3	0.20	0/1239	0.48	0/1676
1	e2	0.25	0/1239	0.55	1/1676 (0.1%)
1	e3	0.24	0/1239	0.59	3/1676 (0.2%)
1	g2	0.18	0/1239	0.53	1/1676 (0.1%)
1	i2	0.28	0/1239	0.66	1/1676 (0.1%)
1	k2	0.16	0/1239	0.48	0/1676
1	m2	0.17	0/1239	0.51	0/1676
1	o2	0.22	0/1239	0.54	0/1676
1	q2	0.17	0/1239	0.45	0/1676
1	s2	0.20	0/1239	0.57	0/1676
1	u2	0.25	0/1239	0.54	0/1676
2	B1	0.16	0/1218	0.43	0/1648
2	B2	0.19	0/1218	0.52	1/1648 (0.1%)
2	B3	0.18	0/1218	0.45	0/1648
2	D1	0.14	0/1218	0.43	0/1648
2	D2	0.22	0/1218	0.48	0/1648
2	D3	0.18	0/1218	0.48	0/1648
2	F1	0.15	0/1218	0.43	0/1648
2	F2	0.19	0/1218	0.44	0/1648
2	F3	0.22	0/1218	0.54	1/1648 (0.1%)
2	G1	0.15	0/1218	0.47	0/1648
2	H2	0.18	0/1218	0.46	0/1648
2	H3	0.19	0/1218	0.47	0/1648
2	I1	0.18	0/1218	0.49	1/1648 (0.1%)
2	J1	0.17	0/1218	0.48	0/1648
2	J2	0.22	0/1218	0.44	0/1648
2	J3	0.17	0/1218	0.46	0/1648
2	L2	0.21	0/1218	0.50	1/1648 (0.1%)
2	L3	0.20	0/1218	0.51	1/1648 (0.1%)
2	N2	0.19	0/1218	0.47	0/1648
2	N3	0.22	0/1218	0.48	0/1648
2	P2	0.18	0/1218	0.47	0/1648
2	P3	0.19	0/1218	0.46	0/1648
2	R2	0.17	0/1218	0.46	0/1648
2	R3	0.23	0/1218	0.48	0/1648
2	T2	0.21	0/1218	0.53	1/1648 (0.1%)
2	T3	0.21	0/1218	0.44	0/1648
2	V2	0.17	0/1218	0.47	0/1648
2	V3	0.18	0/1218	0.43	0/1648
2	X2	0.20	0/1218	0.56	1/1648 (0.1%)
2	X3	0.24	0/1218	0.50	0/1648
2	Z2	0.16	0/1218	0.43	0/1648

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	Z3	0.22	0/1218	0.48	0/1648
2	b2	0.17	0/1218	0.43	0/1648
2	b3	0.25	0/1218	0.67	2/1648 (0.1%)
2	d2	0.16	0/1218	0.50	0/1648
2	d3	0.23	0/1218	0.48	0/1648
2	f2	0.15	0/1218	0.41	0/1648
2	f3	0.22	0/1218	0.57	2/1648 (0.1%)
2	g3	0.26	0/1217	0.75	3/1648 (0.2%)
2	h2	0.18	0/1218	0.46	0/1648
2	h3	0.25	0/1217	0.76	3/1648 (0.2%)
2	j2	0.16	0/1218	0.50	0/1648
2	l2	0.17	0/1218	0.46	0/1648
2	n2	0.18	0/1218	0.48	0/1648
2	p2	0.22	0/1218	0.51	0/1648
2	r2	0.16	0/1218	0.43	0/1648
2	t2	0.17	0/1218	0.46	0/1648
2	v2	0.22	0/1218	0.55	0/1648
3	K1	0.18	0/1276	0.56	0/1723
3	L1	0.22	0/1276	0.64	0/1723
4	M1	0.18	0/548	0.58	0/737
4	i3	0.21	0/548	0.51	0/737
4	w2	0.21	0/548	0.64	1/737 (0.1%)
4	x2	0.20	0/548	0.52	0/737
4	y2	0.22	0/548	0.60	0/737
4	z1	0.19	0/548	0.59	0/737
4	z2	0.21	0/548	0.69	1/737 (0.1%)
4	z3	0.22	0/548	0.61	0/737
5	j3	0.25	0/9003	0.60	8/12173 (0.1%)
5	k3	0.26	0/9003	0.61	8/12173 (0.1%)
All	All	0.21	1/137920 (0.0%)	0.53	51/186536 (0.0%)

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	K2	0	1
1	i2	0	1
2	g3	0	3
2	h3	0	3
4	w2	0	1

Continued on next page...

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Mol	Chain	#Chirality outliers	#Planarity outliers
5	j3	0	6
5	k3	0	7
All	All	0	22

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A3	18	LEU	C-O	6.62	1.32	1.24

All (51) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	b3	143	PRO	CA-N-CD	-10.79	96.90	112.00
2	X2	143	PRO	CA-N-CD	-10.56	97.22	112.00
2	f3	143	PRO	CA-N-CD	-9.15	99.19	112.00
2	g3	147	LYS	CA-C-N	7.89	136.62	121.54
2	g3	147	LYS	C-N-CA	7.89	136.62	121.54
5	k3	277	ILE	N-CA-C	-7.03	105.77	111.81
2	h3	147	LYS	CA-C-N	6.88	134.69	121.54
2	h3	147	LYS	C-N-CA	6.88	134.69	121.54
5	j3	893	ASN	N-CA-C	-6.87	105.18	113.97
1	e3	23	LEU	CA-C-N	6.52	133.99	121.54
1	e3	23	LEU	C-N-CA	6.52	133.99	121.54
5	j3	983	ARG	CA-C-N	6.42	133.53	121.97
5	j3	983	ARG	C-N-CA	6.42	133.53	121.97
2	B2	106	GLU	CA-CB-CG	6.06	126.23	114.10
2	T2	143	PRO	CA-N-CD	-5.98	103.63	112.00
5	k3	218	ALA	N-CA-C	-5.95	107.26	114.75
5	j3	218	ALA	N-CA-C	-5.94	107.26	114.75
5	j3	984	ILE	CA-CB-CG1	5.91	120.44	110.40
2	I1	101	PRO	CA-N-CD	-5.88	103.76	112.00
1	a3	23	LEU	CA-C-N	5.85	132.72	121.54
1	a3	23	LEU	C-N-CA	5.85	132.72	121.54
5	k3	983	ARG	CA-C-N	5.84	132.49	121.97
5	k3	983	ARG	C-N-CA	5.84	132.49	121.97
1	g2	115	MET	CB-CG-SD	5.82	130.16	112.70
1	W3	53	GLN	CA-CB-CG	5.78	125.67	114.10
1	e2	103	PRO	N-CA-C	-5.78	105.21	113.47
2	b3	15	GLN	CA-CB-CG	5.74	125.58	114.10
2	f3	85	MET	CB-CG-SD	5.71	129.82	112.70
5	k3	325	ASN	N-CA-C	-5.70	106.48	113.50
2	F3	135	GLU	CA-CB-CG	5.46	125.03	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	k3	235	ASP	CA-C-N	5.45	131.94	121.54
5	k3	235	ASP	C-N-CA	5.45	131.94	121.54
2	L3	85	MET	CB-CG-SD	5.43	129.00	112.70
5	j3	235	ASP	CA-C-N	5.39	131.84	121.54
5	j3	235	ASP	C-N-CA	5.39	131.84	121.54
2	g3	89	LEU	N-CA-C	-5.32	101.75	109.31
5	k3	387	VAL	N-CA-C	-5.30	107.61	111.90
1	C1	52	LYS	CA-CB-CG	5.28	124.66	114.10
1	A2	66	VAL	N-CA-C	-5.24	107.24	111.91
5	j3	387	VAL	N-CA-C	-5.21	107.68	111.90
2	L2	85	MET	CB-CG-SD	5.19	128.27	112.70
2	h3	89	LEU	N-CA-C	-5.17	101.97	109.31
1	i2	100	ASP	N-CA-CB	5.16	118.90	110.55
4	z2	63	ALA	CB-CA-C	-5.14	110.23	117.23
1	A3	18	LEU	N-CA-CB	-5.14	102.43	110.44
1	e3	24	ASP	N-CA-C	-5.13	99.87	110.80
1	A3	22	GLU	N-CA-C	-5.12	105.83	111.71
1	a3	24	ASP	N-CA-C	-5.06	100.02	110.80
1	A3	24	ASP	CA-C-N	-5.05	113.00	120.28
1	A3	24	ASP	C-N-CA	-5.05	113.00	120.28
4	w2	63	ALA	CB-CA-C	-5.05	110.36	117.23

There are no chirality outliers.

All (22) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	K2	49	ARG	Sidechain
2	g3	82	ILE	Peptide
2	g3	86	ASP	Peptide
2	g3	88	PHE	Peptide
2	h3	82	ILE	Peptide
2	h3	86	ASP	Peptide
2	h3	88	PHE	Peptide
1	i2	99	GLY	Peptide
5	j3	1005	LEU	Peptide
5	j3	1055	SER	Peptide
5	j3	279	GLY	Peptide
5	j3	281	ASP	Peptide
5	j3	49	ASP	Peptide
5	j3	560	VAL	Peptide
5	k3	1005	LEU	Peptide
5	k3	1055	SER	Peptide

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Mol	Chain	Res	Type	Group
5	k3	281	ASP	Peptide
5	k3	289	SER	Peptide
5	k3	324	LYS	Peptide
5	k3	49	ASP	Peptide
5	k3	560	VAL	Peptide
4	w2	21	ARG	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A1	1222	0	1233	85	0
1	A2	1222	0	1233	63	0
1	A3	1222	0	1234	74	0
1	C1	1222	0	1233	101	0
1	C2	1222	0	1233	54	0
1	C3	1222	0	1233	65	0
1	E1	1222	0	1233	59	0
1	E2	1222	0	1233	47	0
1	E3	1222	0	1233	64	0
1	G2	1222	0	1233	70	0
1	G3	1222	0	1234	65	0
1	H1	1222	0	1233	119	0
1	I2	1222	0	1233	52	0
1	I3	1222	0	1233	69	0
1	K2	1222	0	1233	53	0
1	K3	1222	0	1233	76	0
1	M2	1222	0	1233	85	0
1	M3	1222	0	1233	47	0
1	O2	1222	0	1233	78	0
1	O3	1222	0	1233	47	0
1	Q2	1222	0	1233	69	0
1	Q3	1222	0	1233	58	0
1	S2	1222	0	1233	91	0
1	S3	1222	0	1233	44	0
1	U2	1222	0	1233	79	0
1	U3	1222	0	1233	56	0
1	W2	1222	0	1233	66	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	W3	1222	0	1233	69	0
1	Y2	1222	0	1233	80	0
1	Y3	1222	0	1233	81	0
1	a2	1222	0	1233	82	0
1	a3	1222	0	1233	73	0
1	c2	1222	0	1233	113	0
1	c3	1222	0	1233	74	0
1	e2	1222	0	1233	64	0
1	e3	1222	0	1233	57	0
1	g2	1222	0	1233	81	0
1	i2	1222	0	1233	89	0
1	k2	1222	0	1233	79	0
1	m2	1222	0	1233	126	0
1	o2	1222	0	1233	84	0
1	q2	1222	0	1233	81	0
1	s2	1222	0	1233	107	0
1	u2	1222	0	1233	77	0
2	B1	1210	0	1220	86	0
2	B2	1210	0	1220	44	0
2	B3	1210	0	1220	49	0
2	D1	1210	0	1220	84	0
2	D2	1210	0	1220	46	0
2	D3	1210	0	1217	68	0
2	F1	1210	0	1220	92	0
2	F2	1210	0	1220	48	0
2	F3	1210	0	1220	66	0
2	G1	1210	0	1220	83	0
2	H2	1210	0	1220	55	0
2	H3	1210	0	1220	51	0
2	I1	1210	0	1220	72	0
2	J1	1210	0	1220	93	0
2	J2	1210	0	1220	31	0
2	J3	1210	0	1217	72	0
2	L2	1210	0	1220	40	0
2	L3	1210	0	1220	61	0
2	N2	1210	0	1220	73	0
2	N3	1210	0	1220	42	0
2	P2	1210	0	1220	52	0
2	P3	1210	0	1220	42	0
2	R2	1210	0	1220	74	0
2	R3	1210	0	1220	40	0
2	T2	1210	0	1220	75	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	T3	1210	0	1220	39	0
2	V2	1210	0	1220	60	0
2	V3	1210	0	1220	55	0
2	X2	1210	0	1220	71	0
2	X3	1210	0	1220	36	0
2	Z2	1210	0	1220	59	0
2	Z3	1210	0	1220	38	0
2	b2	1210	0	1220	53	0
2	b3	1210	0	1220	79	0
2	d2	1210	0	1220	66	0
2	d3	1210	0	1220	36	0
2	f2	1210	0	1220	51	0
2	f3	1210	0	1220	77	0
2	g3	1209	0	1220	96	0
2	h2	1210	0	1220	57	0
2	h3	1209	0	1220	87	0
2	j2	1210	0	1220	59	0
2	l2	1210	0	1220	82	0
2	n2	1210	0	1220	75	0
2	p2	1210	0	1220	83	0
2	r2	1210	0	1220	71	0
2	t2	1210	0	1220	56	0
2	v2	1210	0	1220	97	0
3	K1	1255	0	1265	114	0
3	L1	1255	0	1265	98	0
4	M1	538	0	555	43	0
4	i3	538	0	555	35	0
4	w2	538	0	555	24	0
4	x2	538	0	555	33	0
4	y2	538	0	555	34	0
4	z1	538	0	555	50	0
4	z2	538	0	555	20	0
4	z3	538	0	554	31	0
5	j3	8819	0	8827	520	0
5	k3	8819	0	8826	517	0
6	A1	43	0	37	5	0
6	A2	43	0	37	7	0
6	A3	43	0	35	10	0
6	B2	43	0	37	4	0
6	C1	43	0	37	7	0
6	C2	43	0	35	4	0
6	C3	43	0	36	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	D3	43	0	36	4	0
6	E1	43	0	37	6	0
6	E2	43	0	37	5	0
6	E3	43	0	37	4	0
6	F1	43	0	37	5	0
6	F2	43	0	35	2	0
6	F3	43	0	37	5	0
6	G2	43	0	37	6	0
6	G3	43	0	35	9	0
6	H1	43	0	36	7	0
6	H2	43	0	37	7	0
6	H3	43	0	37	11	0
6	I2	43	0	35	3	0
6	I3	43	0	36	5	0
6	J1	43	0	37	7	0
6	J3	43	0	37	6	0
6	K1	43	0	37	10	0
6	K2	43	0	37	7	0
6	K3	43	0	37	4	0
6	L1	43	0	37	12	0
6	L2	43	0	36	2	0
6	L3	43	0	37	7	0
6	M1	43	0	37	6	0
6	M2	43	0	37	4	0
6	M3	43	0	37	4	0
6	N2	43	0	36	5	0
6	N3	43	0	37	4	0
6	O2	43	0	37	3	0
6	O3	43	0	35	6	0
6	P2	43	0	37	2	0
6	Q2	43	0	37	6	0
6	Q3	43	0	36	5	0
6	R2	43	0	37	2	0
6	R3	43	0	37	3	0
6	S2	43	0	37	8	0
6	S3	43	0	37	4	0
6	T2	43	0	37	6	0
6	T3	43	0	37	3	0
6	U2	43	0	35	3	0
6	U3	43	0	35	5	0
6	V2	43	0	36	3	0
6	V3	43	0	35	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	W2	43	0	37	7	0
6	W3	43	0	36	9	0
6	X2	43	0	37	5	0
6	X3	43	0	37	3	0
6	Y2	43	0	37	5	0
6	Y3	43	0	37	5	0
6	Z3	43	0	36	2	0
6	a2	43	0	36	6	0
6	a3	43	0	35	3	0
6	b2	43	0	37	8	0
6	b3	43	0	37	1	0
6	c2	43	0	37	4	0
6	c3	43	0	37	5	0
6	d3	43	0	35	3	0
6	e2	43	0	37	5	0
6	e3	43	0	35	4	0
6	f3	43	0	37	2	0
6	g2	43	0	35	4	0
6	g3	43	0	37	8	0
6	h2	43	0	37	5	0
6	h3	43	0	37	13	0
6	i2	43	0	37	4	0
6	j3	258	38	212	41	0
6	k2	43	0	36	5	0
6	k3	301	38	248	28	0
6	m2	43	0	37	5	0
6	o2	43	0	36	8	0
6	p2	43	0	36	7	0
6	q2	43	0	37	7	0
6	s2	43	0	36	7	0
6	u2	43	0	36	8	0
6	v2	43	0	36	7	0
6	x2	43	0	33	7	0
6	y2	43	0	33	8	0
6	z1	43	0	37	5	0
6	z3	43	0	37	7	0
All	All	140426	76	140910	6997	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 25.

All (6997) 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:e2:105:GLU:HA	1:e2:109:ILE:HG12	1.34	1.08
2:P3:60:LEU:HB3	2:P3:72:MET:HE1	1.40	1.02
1:e3:27:LYS:HE2	2:h3:38:VAL:HG11	1.43	1.01
2:b2:85:MET:HE1	6:b2:201:CYC:HBC1	1.43	1.00
4:x2:7:VAL:HG12	4:x2:54:VAL:HG13	1.44	1.00
3:L1:155:TYR:HB2	1:e3:20:PRO:HG2	1.42	0.99
1:A3:28:SER:C	1:A3:30:VAL:H	1.67	0.98
2:F3:85:MET:HG3	2:F3:133:MET:HE3	1.46	0.97
3:L1:117:ARG:HG3	5:j3:239:SER:HA	1.45	0.97
2:F2:85:MET:HE1	2:F2:129:GLY:HA3	1.45	0.97
1:Y3:76:LYS:HG2	1:Y3:77:MET:HE3	1.48	0.95
2:D1:1:MET:HG3	2:D1:103:ILE:HB	1.48	0.94
1:E2:126:VAL:HG12	1:E2:160:MET:HE1	1.46	0.94
5:j3:288:LEU:HD22	5:j3:290:SER:HA	1.48	0.94
2:p2:148:GLU:HA	2:p2:151:ILE:HD12	1.50	0.94
2:v2:60:LEU:HB3	2:v2:72:MET:HE1	1.48	0.93
2:l2:110:ASN:HB3	5:k3:1054:SER:HB3	1.48	0.93
2:L3:40:ALA:HB3	2:L3:96:MET:HE1	1.51	0.92
1:Q3:77:MET:HE1	6:Q3:201:CYC:HAD1	1.48	0.92
5:j3:49:ASP:HB3	5:j3:53:ARG:HD2	1.48	0.92
2:t2:123:ILE:HD11	2:t2:160:LEU:HB3	1.49	0.92
1:G3:126:VAL:HG22	6:G3:201:CYC:H3C	1.52	0.92
1:m2:158:GLY:HA2	1:m2:161:GLN:HG3	1.50	0.92
2:J1:6:THR:HG21	3:L1:5:LEU:HD11	1.53	0.91
3:K1:155:TYR:HB2	1:a3:20:PRO:HG2	1.52	0.91
1:C1:92:VAL:HA	1:C1:104:ILE:HD11	1.49	0.91
2:Z3:64:ASP:HB3	5:k3:705:THR:HB	1.53	0.91
3:K1:105:GLU:HA	3:K1:109:LEU:HB2	1.51	0.91
2:l2:60:LEU:HB3	2:l2:72:MET:HE1	1.52	0.91
2:f3:15:GLN:HG2	2:f3:17:LYS:HG2	1.50	0.91
2:H3:89:LEU:HB2	2:H3:133:MET:HE1	1.51	0.90
2:r2:51:ILE:HG22	2:r2:133:MET:HE2	1.54	0.90
4:z1:26:THR:HG21	6:z1:101:CYC:HAA1	1.53	0.90
1:I3:43:LEU:HD21	1:I3:141:LEU:HD11	1.53	0.90
1:Q2:89:LEU:HB2	1:Q2:133:MET:HE1	1.52	0.90
1:O2:50:ILE:HD13	1:O2:136:VAL:HG12	1.54	0.89
5:k3:1106:PHE:HA	5:k3:1110:ILE:HD11	1.54	0.89
5:j3:630:ILE:HG22	5:j3:664:MET:HE1	1.53	0.89
1:A3:126:VAL:HA	6:A3:201:CYC:HBC3	1.53	0.89
1:i2:2:SER:N	1:i2:5:THR:HG1	1.71	0.89
1:A3:126:VAL:HG22	6:A3:201:CYC:H3C	1.52	0.89
5:k3:75:ILE:HD13	5:k3:202:ALA:HB2	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J1:88:PHE:HB2	2:J1:133:MET:HE1	1.54	0.89
1:C3:43:LEU:HD21	1:C3:141:LEU:HD11	1.55	0.88
1:g2:50:ILE:HA	1:g2:136:VAL:HG11	1.54	0.88
2:d2:35:ALA:HB1	2:d2:39:ARG:HH21	1.38	0.88
1:a3:19:SER:HB3	1:a3:22:GLU:HG3	1.56	0.88
1:a2:50:ILE:HA	1:a2:136:VAL:HG11	1.55	0.88
2:D1:1:MET:HE2	2:D1:103:ILE:HD12	1.56	0.88
1:q2:85:LEU:HD12	1:q2:133:MET:HE3	1.55	0.87
4:y2:7:VAL:HG12	4:y2:54:VAL:HG13	1.55	0.87
1:a3:89:LEU:HB2	1:a3:133:MET:HE1	1.57	0.87
5:j3:297:VAL:HG12	5:j3:298:ARG:HD2	1.56	0.87
1:m2:50:ILE:HA	1:m2:136:VAL:HG11	1.57	0.87
2:T2:35:ALA:HB1	2:T2:39:ARG:HH21	1.37	0.87
1:U2:5:THR:HA	2:V2:1:MET:HE1	1.56	0.87
2:B1:104:LEU:HD22	2:B1:156:LEU:HD21	1.57	0.86
1:Y2:112:VAL:HA	1:Y2:115:MET:HG2	1.57	0.86
1:k2:109:ILE:HG12	1:k2:159:ALA:HB1	1.56	0.86
2:F3:40:ALA:HB3	2:F3:96:MET:HE1	1.57	0.86
1:O2:9:VAL:HG23	2:P2:107:ARG:HH22	1.41	0.86
1:i2:50:ILE:HG23	1:i2:136:VAL:HG13	1.57	0.86
1:A3:138:THR:HG23	1:A3:146:ALA:HB1	1.58	0.86
2:V2:106:GLU:HG2	2:V2:107:ARG:HG3	1.58	0.85
1:i2:105:GLU:HA	1:i2:109:ILE:HB	1.58	0.85
5:k3:1052:PRO:HG3	5:k3:1140:TRP:HA	1.58	0.85
1:G3:126:VAL:HA	6:G3:201:CYC:HBC3	1.56	0.85
2:h3:109:LEU:HD21	2:h3:159:GLY:HA3	1.59	0.85
3:K1:130:MET:HB3	3:K1:157:ILE:HG23	1.59	0.85
5:k3:187:ARG:HD3	5:k3:237:ASP:HA	1.57	0.85
1:M2:61:ILE:HG22	1:M2:62:ARG:HG2	1.55	0.85
6:k2:201:CYC:HC	6:k2:201:CYC:HMD1	1.41	0.84
1:K2:83:ARG:HD3	5:j3:725:LEU:HD23	1.59	0.84
2:Z2:82:ILE:HA	2:Z2:85:MET:HE3	1.59	0.84
6:K1:201:CYC:HMD1	6:K1:201:CYC:HC	1.42	0.84
2:Z2:35:ALA:HB1	2:Z2:39:ARG:HH21	1.41	0.84
6:e2:201:CYC:HB	6:e2:201:CYC:HMA1	1.43	0.84
1:u2:27:LYS:HE3	2:v2:38:VAL:HG21	1.58	0.84
1:A1:50:ILE:HA	1:A1:136:VAL:HG11	1.57	0.84
6:M2:201:CYC:HMD1	6:M2:201:CYC:HC	1.43	0.84
1:S2:91:LEU:HD12	1:S2:104:ILE:HA	1.60	0.84
5:j3:1106:PHE:HA	5:j3:1110:ILE:HD11	1.58	0.84
3:L1:105:GLU:HA	3:L1:109:LEU:HB2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B1:131:GLN:HA	2:B1:134:LYS:HZ2	1.41	0.84
1:S2:50:ILE:HA	1:S2:136:VAL:HG11	1.60	0.84
6:g2:201:CYC:HMD1	6:g2:201:CYC:HC	1.43	0.84
1:Q3:61:ILE:HG22	1:Q3:62:ARG:HG2	1.60	0.83
6:H3:201:CYC:HMD1	6:H3:201:CYC:HC	1.42	0.83
6:N2:201:CYC:HMD1	6:N2:201:CYC:HC	1.43	0.83
6:K3:201:CYC:HMD1	6:K3:201:CYC:HC	1.43	0.83
6:S3:201:CYC:HMD1	6:S3:201:CYC:HC	1.44	0.83
6:L1:201:CYC:HC	6:L1:201:CYC:HMD1	1.42	0.83
2:T2:89:LEU:HB2	2:T2:133:MET:HE1	1.61	0.83
1:Y2:115:MET:HA	1:Y2:115:MET:HE3	1.61	0.83
6:e2:201:CYC:HMD1	6:e2:201:CYC:HC	1.44	0.83
6:E3:201:CYC:HMD1	6:E3:201:CYC:HC	1.44	0.83
2:g3:109:LEU:HD21	2:g3:159:GLY:HA3	1.61	0.83
1:M2:160:MET:HE3	1:M2:160:MET:HA	1.60	0.83
6:a2:201:CYC:HMD1	6:a2:201:CYC:HC	1.44	0.83
6:G2:201:CYC:HMD1	6:G2:201:CYC:HC	1.43	0.83
6:W2:201:CYC:HMD1	6:W2:201:CYC:HC	1.44	0.83
1:H1:91:LEU:HD11	1:H1:107:ILE:HB	1.61	0.82
3:L1:25:GLN:HG3	1:e3:25:ARG:HG3	1.61	0.82
6:m2:201:CYC:HMD1	6:m2:201:CYC:HC	1.43	0.82
2:p2:25:ASP:HA	2:p2:28:LYS:HD2	1.61	0.82
1:W3:50:ILE:HA	1:W3:136:VAL:HG11	1.61	0.82
6:E1:201:CYC:HMD1	6:E1:201:CYC:HC	1.43	0.82
5:k3:57:VAL:HG23	5:k3:168:THR:HB	1.62	0.82
6:A2:201:CYC:HMD1	6:A2:201:CYC:HC	1.43	0.82
2:X3:111:GLY:HA3	5:j3:468:ASN:HB3	1.61	0.82
1:C2:50:ILE:HA	1:C2:136:VAL:HG11	1.59	0.82
6:Y2:201:CYC:HMD1	6:Y2:201:CYC:HC	1.43	0.82
4:i3:60:VAL:HG13	4:i3:63:ALA:HB2	1.62	0.82
6:C2:201:CYC:HC	6:C2:201:CYC:HMD1	1.44	0.82
1:G2:61:ILE:HG22	1:G2:62:ARG:HG2	1.62	0.82
1:M2:91:LEU:HD12	1:M2:104:ILE:HA	1.61	0.82
1:s2:50:ILE:HA	1:s2:136:VAL:HG11	1.62	0.82
6:u2:201:CYC:HMD1	6:u2:201:CYC:HC	1.45	0.82
6:C1:201:CYC:HMD1	6:C1:201:CYC:HC	1.43	0.82
1:E3:49:ARG:HH22	1:E3:140:LEU:HD21	1.45	0.82
2:g3:1:MET:HG3	2:g3:103:ILE:HB	1.60	0.82
6:c3:201:CYC:HMD1	6:c3:201:CYC:HC	1.42	0.82
2:G1:51:ILE:HA	2:G1:136:VAL:HG11	1.62	0.82
6:O3:201:CYC:HC	6:O3:201:CYC:HMD1	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S2:201:CYC:HC	6:S2:201:CYC:HMD1	1.43	0.81
6:s2:201:CYC:HC	6:s2:201:CYC:HMD1	1.44	0.81
6:C3:201:CYC:HMD1	6:C3:201:CYC:HC	1.46	0.81
6:M3:201:CYC:HMD1	6:M3:201:CYC:HC	1.45	0.81
1:W3:47:ARG:HG3	1:W3:89:LEU:HD23	1.61	0.81
5:k3:1018:LEU:HB3	5:k3:1021:ALA:HB3	1.62	0.81
6:o2:201:CYC:HMD1	6:o2:201:CYC:HC	1.43	0.81
5:k3:755:GLN:HB3	5:k3:879:ASP:HB2	1.60	0.81
6:Q3:201:CYC:HMD1	6:Q3:201:CYC:HC	1.43	0.81
6:j3:1201:CYC:HMD1	6:j3:1201:CYC:HC	1.44	0.81
2:h2:60:LEU:HB3	2:h2:72:MET:HE1	1.59	0.81
6:U3:201:CYC:HMD1	6:U3:201:CYC:HC	1.45	0.81
5:j3:1018:LEU:HB3	5:j3:1021:ALA:HB3	1.62	0.81
1:M2:50:ILE:HA	1:M2:136:VAL:HG11	1.62	0.81
6:Q2:201:CYC:HMD1	6:Q2:201:CYC:HC	1.43	0.81
5:k3:947:MET:HE1	5:k3:949:ARG:HE	1.45	0.81
1:e2:5:THR:HA	2:f2:1:MET:HE1	1.62	0.81
1:Y2:5:THR:HA	2:Z2:1:MET:HE1	1.61	0.81
2:v2:148:GLU:HA	2:v2:151:ILE:HD12	1.62	0.81
2:d2:130:ILE:HA	2:d2:133:MET:HE3	1.61	0.81
6:H2:201:CYC:HC	6:H2:201:CYC:HMD1	1.44	0.80
6:i2:201:CYC:HMD1	6:i2:201:CYC:HC	1.44	0.80
2:N3:76:ARG:HG3	1:O3:110:ILE:HG13	1.61	0.80
1:H1:134:LYS:HE2	1:H1:150:GLY:HA2	1.63	0.80
1:U2:60:GLN:HE22	2:p2:120:GLY:HA2	1.45	0.80
5:j3:283:ARG:HD2	5:j3:284:PRO:HD3	1.63	0.80
5:k3:246:VAL:HG22	5:k3:257:THR:HG22	1.63	0.80
5:j3:246:VAL:HG22	5:j3:257:THR:HG22	1.63	0.80
5:k3:184:LEU:HD11	5:k3:242:PRO:HD3	1.60	0.80
1:O2:60:GLN:HE22	2:v2:120:GLY:HA2	1.47	0.80
1:k2:91:LEU:HD12	1:k2:104:ILE:HA	1.63	0.80
1:k2:106:GLU:HB2	5:k3:1143:LEU:HD22	1.62	0.80
1:q2:106:GLU:HB2	5:j3:1143:LEU:HD12	1.61	0.80
6:Y3:201:CYC:HMD1	6:Y3:201:CYC:HC	1.43	0.80
6:L1:201:CYC:HMA3	6:L1:201:CYC:HB	1.47	0.80
2:X2:122:PRO:HG2	6:X2:201:CYC:HMC3	1.64	0.80
1:W3:47:ARG:HH22	1:W3:90:ARG:HA	1.47	0.80
1:G2:105:GLU:HG2	1:G2:109:ILE:HD11	1.62	0.80
1:O3:61:ILE:HG22	1:O3:62:ARG:HG2	1.63	0.80
2:b2:122:PRO:HG2	6:b2:201:CYC:HMC1	1.61	0.80
6:W3:201:CYC:HC	6:W3:201:CYC:HMD1	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J1:60:LEU:HB3	2:J1:72:MET:HE1	1.64	0.80
1:a2:61:ILE:HG22	1:a2:62:ARG:HG2	1.64	0.80
6:V3:201:CYC:HMA1	6:V3:201:CYC:HB	1.46	0.80
1:K2:80:LEU:HD23	5:j3:725:LEU:HD21	1.64	0.80
1:a2:105:GLU:HA	1:a2:109:ILE:HG12	1.64	0.80
6:I3:201:CYC:HMD1	6:I3:201:CYC:HC	1.46	0.80
2:G1:85:MET:HE3	2:G1:133:MET:HE3	1.64	0.79
6:I2:201:CYC:HMD1	6:I2:201:CYC:HC	1.45	0.79
1:O2:115:MET:HA	1:O2:115:MET:HE2	1.63	0.79
2:F1:65:LEU:HD23	2:F1:72:MET:HE2	1.63	0.79
1:G2:126:VAL:HG12	1:G2:160:MET:HE1	1.64	0.79
1:a2:112:VAL:HG21	1:a2:160:MET:HE1	1.64	0.79
1:A1:110:ILE:HG13	2:F1:76:ARG:HB2	1.64	0.79
2:v2:25:ASP:HA	2:v2:28:LYS:HD2	1.63	0.79
2:g3:60:LEU:HD11	2:g3:85:MET:HE1	1.64	0.79
2:J3:35:ALA:HB1	2:J3:39:ARG:HH12	1.46	0.79
2:D2:106:GLU:HG2	2:D2:107:ARG:HG3	1.63	0.79
1:G2:50:ILE:HA	1:G2:136:VAL:HG11	1.65	0.79
1:a2:105:GLU:HG3	1:a2:109:ILE:HD11	1.65	0.79
2:T3:115:THR:HG23	5:j3:486:ILE:HD11	1.62	0.79
2:D3:122:PRO:HG2	6:D3:201:CYC:HMC1	1.64	0.79
1:A3:28:SER:C	1:A3:30:VAL:N	2.36	0.79
2:T2:60:LEU:HD13	2:T2:72:MET:HE1	1.65	0.79
6:E2:201:CYC:HC	6:E2:201:CYC:HMD1	1.48	0.79
1:S2:160:MET:HA	1:S2:160:MET:HE3	1.64	0.79
1:q2:85:LEU:HD21	6:q2:201:CYC:HBC1	1.64	0.79
1:G3:115:MET:HE1	2:L3:75:THR:HG22	1.64	0.79
2:P2:112:LEU:HD23	2:P2:160:LEU:HD21	1.65	0.78
5:k3:138:PRO:HB3	5:k3:201:VAL:HG11	1.65	0.78
5:k3:205:GLU:HG2	5:k3:208:LYS:HE2	1.65	0.78
3:K1:101:ASN:HD21	1:a3:20:PRO:HD2	1.48	0.78
2:F1:8:VAL:HG11	2:F1:27:LEU:HD21	1.66	0.78
1:Q2:30:VAL:HG23	2:R2:31:PHE:HD1	1.49	0.78
5:j3:755:GLN:HB3	5:j3:879:ASP:HB2	1.63	0.78
2:F1:32:THR:HG23	2:F1:33:THR:HG23	1.65	0.78
1:S2:138:THR:HG23	1:S2:146:ALA:HB1	1.66	0.78
1:o2:23:LEU:HD12	2:p2:38:VAL:HB	1.65	0.78
5:j3:298:ARG:HH22	5:j3:310:LYS:HB2	1.48	0.78
5:k3:143:ILE:HG22	5:k3:146:ALA:H	1.47	0.78
1:H1:89:LEU:HB2	1:H1:133:MET:HE2	1.66	0.78
6:e3:201:CYC:HC	6:e3:201:CYC:HMD1	1.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E1:50:ILE:HA	1:E1:136:VAL:HG11	1.66	0.78
2:b2:60:LEU:HB3	2:b2:72:MET:HE1	1.65	0.78
2:g3:148:GLU:HA	2:g3:151:ILE:HD12	1.66	0.78
1:A1:50:ILE:HG23	1:A1:136:VAL:HB	1.65	0.78
1:Y2:104:ILE:HG22	1:Y2:109:ILE:HD11	1.64	0.78
1:e2:50:ILE:HA	1:e2:136:VAL:HG11	1.66	0.78
6:k3:1206:CYC:HB	6:k3:1206:CYC:HMA1	1.49	0.78
2:F1:114:GLU:HG2	4:z1:54:VAL:HG22	1.66	0.78
1:q2:76:LYS:HG3	1:q2:77:MET:HE3	1.63	0.78
2:f3:57:ALA:HA	2:f3:61:ILE:HD11	1.66	0.78
5:j3:72:ALA:HB3	5:j3:82:MET:HE1	1.67	0.78
3:K1:95:SER:HA	3:K1:103:PRO:HG2	1.64	0.77
3:L1:95:SER:HA	3:L1:103:PRO:HG2	1.66	0.77
6:K2:201:CYC:HC	6:K2:201:CYC:HMD1	1.49	0.77
1:G3:121:THR:HG23	6:G3:201:CYC:HMC3	1.66	0.77
1:I3:20:PRO:HB3	1:W3:151:PHE:HZ	1.49	0.77
1:g2:105:GLU:HA	1:g2:109:ILE:HG12	1.64	0.77
2:f3:5:ILE:HG22	2:f3:27:LEU:HD22	1.66	0.77
5:k3:322:LYS:HA	5:k3:325:ASN:HB3	1.66	0.77
1:I2:50:ILE:HA	1:I2:136:VAL:HG11	1.65	0.77
6:S2:201:CYC:HB	6:S2:201:CYC:HMA1	1.49	0.77
2:G1:112:LEU:HG	2:G1:160:LEU:HD21	1.65	0.77
2:N2:87:TYR:HH	5:k3:789:SER:HG	1.26	0.77
5:k3:544:VAL:HG22	5:k3:564:VAL:HG22	1.67	0.77
3:L1:116:TYR:HA	3:L1:119:LEU:HB2	1.65	0.77
5:j3:143:ILE:HG22	5:j3:146:ALA:H	1.49	0.77
6:q2:201:CYC:HMD1	6:q2:201:CYC:HC	1.49	0.77
2:G1:134:LYS:HE2	2:G1:150:SER:HB3	1.67	0.77
4:M1:8:THR:HG22	4:M1:52:LEU:HB2	1.65	0.77
2:b3:57:ALA:HA	2:b3:61:ILE:HD11	1.66	0.77
1:C2:25:ARG:HH21	1:Q2:25:ARG:HD2	1.50	0.76
1:U2:9:VAL:HG23	2:V2:107:ARG:HH22	1.50	0.76
1:H1:105:GLU:HG3	1:H1:109:ILE:HD11	1.66	0.76
2:v2:71:MEN:HE22	6:v2:201:CYC:HBD2	1.66	0.76
1:H1:95:GLY:HA3	1:H1:104:ILE:HD11	1.65	0.76
3:K1:25:GLN:HG3	1:a3:25:ARG:HG3	1.68	0.76
1:s2:106:GLU:HA	1:s2:110:ILE:HD11	1.67	0.76
6:c3:201:CYC:HB	6:c3:201:CYC:HMA1	1.50	0.76
1:U2:115:MET:HE2	1:U2:115:MET:HA	1.66	0.76
1:C1:97:VAL:HG21	2:D1:19:LEU:HD11	1.68	0.76
1:k2:37:LEU:HD22	2:l2:24:LEU:HD22	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v2:36:VAL:HA	2:v2:39:ARG:HD2	1.66	0.76
2:D3:83:ARG:HD2	4:z3:38:PHE:HE2	1.49	0.76
2:F1:107:ARG:HH22	3:K1:9:MET:HE1	1.50	0.76
1:S2:85:LEU:HB3	1:S2:133:MET:HE2	1.68	0.76
1:a2:37:LEU:HB3	2:b2:24:LEU:HD21	1.68	0.76
5:j3:187:ARG:HD2	5:j3:237:ASP:HA	1.68	0.76
1:u2:51:VAL:HG12	1:u2:82:LEU:HD12	1.69	0.75
6:M3:201:CYC:HB	6:M3:201:CYC:HMA1	1.51	0.75
2:F1:104:LEU:HD22	2:F1:156:LEU:HD21	1.67	0.75
2:L2:61:ILE:HG22	2:L2:66:THR:HG21	1.67	0.75
1:M2:138:THR:HG23	1:M2:146:ALA:HB1	1.69	0.75
1:k2:105:GLU:HA	1:k2:109:ILE:HG22	1.69	0.75
1:I3:72:ALA:HA	1:I3:77:MET:HB3	1.69	0.75
4:z3:11:ILE:HD11	4:z3:44:ILE:HG12	1.68	0.75
4:z3:60:VAL:HG13	4:z3:63:ALA:HB2	1.68	0.75
1:M2:37:LEU:HD12	2:N2:28:LYS:HD3	1.69	0.75
4:y2:11:ILE:HD11	4:y2:44:ILE:HG23	1.69	0.75
1:I3:3:VAL:HG13	1:I3:25:ARG:HH21	1.51	0.75
1:W3:77:MET:HE1	6:W3:201:CYC:HAD1	1.68	0.75
2:b3:147:LYS:HE2	2:b3:147:LYS:H	1.51	0.75
6:E2:201:CYC:HB	6:E2:201:CYC:HMA1	1.52	0.75
1:q2:4:LEU:HD23	1:q2:26:ILE:HD13	1.68	0.75
5:k3:386:ILE:HG12	5:k3:393:MET:HE2	1.68	0.75
2:P2:106:GLU:HG2	2:P2:107:ARG:HG3	1.67	0.75
1:u2:5:THR:HA	2:v2:1:MET:HE1	1.68	0.75
2:g3:74:THR:HG22	5:k3:162:TRP:HZ2	1.51	0.75
2:h3:148:GLU:HA	2:h3:151:ILE:HD12	1.69	0.75
1:G2:4:LEU:HD23	1:G2:26:ILE:HD13	1.69	0.74
1:A2:91:LEU:HB3	1:A2:104:ILE:HG22	1.69	0.74
2:F2:67:ARG:HG2	2:F2:68:PRO:HD2	1.69	0.74
1:c2:50:ILE:HG23	1:c2:136:VAL:HB	1.67	0.74
1:s2:85:LEU:HD22	1:s2:133:MET:HE1	1.68	0.74
1:o2:24:ASP:HA	1:o2:27:LYS:HG2	1.69	0.74
1:A3:50:ILE:HA	1:A3:136:VAL:HG11	1.68	0.74
1:E3:50:ILE:HA	1:E3:136:VAL:HG11	1.69	0.74
1:c3:76:LYS:HG2	1:c3:77:MET:HE3	1.68	0.74
1:C2:115:MET:HA	1:C2:115:MET:HE3	1.69	0.74
1:g2:24:ASP:HA	1:g2:27:LYS:HE2	1.69	0.74
2:n2:89:LEU:HB2	2:n2:133:MET:HE1	1.70	0.74
1:A3:18:LEU:HB3	1:A3:22:GLU:HB2	1.69	0.74
1:C3:110:ILE:HD13	4:z3:15:LYS:HB2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y3:115:MET:HE1	2:b3:75:THR:HG22	1.68	0.74
1:e2:61:ILE:HG22	1:e2:62:ARG:HG2	1.69	0.74
5:k3:544:VAL:HG12	5:k3:545:GLY:H	1.52	0.74
2:D2:60:LEU:HB3	2:D2:72:MET:HE1	1.68	0.74
2:R3:111:GLY:HA3	5:k3:468:ASN:HB3	1.68	0.74
2:L2:67:ARG:HG2	2:L2:68:PRO:HD2	1.69	0.74
1:g2:49:ARG:HH22	1:g2:140:LEU:HD21	1.53	0.74
1:k2:91:LEU:HD11	1:k2:107:ILE:HB	1.69	0.74
5:k3:1046:ARG:NE	5:k3:1051:GLU:OE1	2.20	0.74
4:M1:30:LYS:HE2	4:M1:32:VAL:HG12	1.69	0.74
2:p2:5:ILE:HG23	2:p2:27:LEU:HD22	1.68	0.74
6:S3:201:CYC:HB	6:S3:201:CYC:HMA1	1.52	0.74
1:k2:76:LYS:HG3	1:k2:77:MET:HE3	1.70	0.73
1:G3:138:THR:HG23	1:G3:146:ALA:HB1	1.71	0.73
1:S3:72:ALA:HA	1:S3:77:MET:HB3	1.70	0.73
5:j3:6:THR:HG23	5:j3:500:PRO:HD3	1.70	0.73
5:j3:545:GLY:HA2	5:j3:596:GLY:HA3	1.68	0.73
1:S2:95:GLY:HA3	1:S2:104:ILE:HD11	1.69	0.73
2:g3:95:ALA:O	2:g3:99:GLY:HA2	1.87	0.73
1:C1:43:LEU:HD11	1:C1:141:LEU:HD11	1.71	0.73
1:I2:61:ILE:HG22	1:I2:62:ARG:HG2	1.68	0.73
5:j3:382:ILE:HD11	5:j3:401:LEU:HD22	1.70	0.73
1:k2:50:ILE:HA	1:k2:136:VAL:HG11	1.68	0.73
1:q2:103:PRO:HA	5:j3:1143:LEU:HD13	1.69	0.73
1:Q3:4:LEU:HD23	1:Q3:26:ILE:HD13	1.68	0.73
5:k3:1118:THR:HG23	6:k3:1205:CYC:HBA1	1.70	0.73
2:X2:15:GLN:HB2	2:X2:17:LYS:HG3	1.69	0.73
1:c2:105:GLU:HA	1:c2:109:ILE:HB	1.71	0.73
2:l2:113:LYS:HD2	2:l2:160:LEU:HA	1.71	0.73
1:q2:37:LEU:HD13	2:r2:28:LYS:HD2	1.71	0.73
6:E3:201:CYC:HB	6:E3:201:CYC:HMA1	1.54	0.73
4:z1:8:THR:HG22	4:z1:52:LEU:HB2	1.68	0.73
1:k2:13:ALA:HB2	5:k3:1046:ARG:HD2	1.69	0.73
4:y2:8:THR:HG1	4:y2:29:THR:HG1	1.36	0.73
6:C3:201:CYC:HMA1	6:C3:201:CYC:HB	1.53	0.73
1:C1:154:ASP:HB2	2:b3:46:SER:HB2	1.70	0.73
6:K2:201:CYC:HB	6:K2:201:CYC:HMA1	1.52	0.73
1:o2:68:PRO:HG2	1:G3:61:ILE:HD13	1.70	0.73
2:h3:95:ALA:O	2:h3:99:GLY:HA2	1.87	0.73
1:E2:4:LEU:HD23	1:E2:26:ILE:HD13	1.70	0.73
1:g2:37:LEU:HB3	2:h2:24:LEU:HD21	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W3:4:LEU:HD23	1:W3:26:ILE:HD13	1.70	0.73
3:K1:117:ARG:NH1	5:k3:238:ARG:O	2.22	0.72
2:p2:71:MEN:HE22	6:p2:201:CYC:HBD2	1.71	0.72
1:G3:50:ILE:HA	1:G3:136:VAL:HG11	1.69	0.72
1:K3:50:ILE:HA	1:K3:136:VAL:HG11	1.71	0.72
1:e3:104:ILE:HD11	1:e3:156:LEU:HD21	1.71	0.72
1:Y2:77:MET:HE2	1:Y2:77:MET:H	1.53	0.72
2:j2:122:PRO:HG2	6:y2:101:CYC:HMC3	1.69	0.72
1:q2:43:LEU:HD21	1:q2:141:LEU:HD11	1.70	0.72
2:g3:133:MET:HA	2:g3:136:VAL:HG22	1.71	0.72
5:j3:75:ILE:HD13	5:j3:202:ALA:HB2	1.70	0.72
2:v2:122:PRO:HG2	6:v2:201:CYC:HMC1	1.69	0.72
6:F3:201:CYC:HMA1	6:F3:201:CYC:HB	1.53	0.72
1:E1:72:ALA:HA	1:E1:77:MET:HB3	1.70	0.72
1:E2:20:PRO:HB3	1:O2:151:PHE:HZ	1.51	0.72
1:I2:85:LEU:HD22	1:I2:133:MET:HE2	1.71	0.72
2:f2:72:MET:HE3	2:f2:81:CYS:HB3	1.71	0.72
2:l2:61:ILE:HA	2:l2:66:THR:HG21	1.72	0.72
1:q2:97:VAL:HG11	2:r2:19:LEU:HD11	1.70	0.72
2:G1:105:ASP:HA	2:G1:109:LEU:HB2	1.71	0.72
1:Y2:50:ILE:HA	1:Y2:136:VAL:HG11	1.71	0.72
4:M1:16:ARG:NH2	5:j3:413:SER:O	2.22	0.72
1:S2:105:GLU:HA	1:S2:109:ILE:HG13	1.71	0.72
5:j3:277:ILE:O	5:j3:278:TYR:C	2.33	0.72
5:k3:1120:PRO:HB2	5:k3:1123:ASN:HB2	1.69	0.72
2:l2:50:THR:HA	2:l2:53:LYS:HE2	1.71	0.72
2:n2:63:SER:HB2	2:n2:65:LEU:HD12	1.70	0.72
4:y2:4:TYR:HB2	4:y2:58:THR:HG21	1.72	0.72
6:L3:201:CYC:HB	6:L3:201:CYC:HMA1	1.55	0.72
1:S3:115:MET:HE1	2:X3:75:THR:HG22	1.70	0.72
2:F1:64:ASP:HA	2:F1:67:ARG:HB2	1.70	0.72
2:I1:53:LYS:HE2	3:L1:118:VAL:HA	1.71	0.72
1:A2:4:LEU:HD23	1:A2:26:ILE:HD13	1.70	0.72
1:O2:72:ALA:HA	1:O2:77:MET:HB3	1.72	0.72
2:R2:15:GLN:HB2	2:R2:17:LYS:HG3	1.70	0.72
2:j2:84:ASP:OD2	2:j2:116:TYR:OH	2.07	0.72
1:m2:115:MET:HA	1:m2:115:MET:HE2	1.71	0.72
6:J1:201:CYC:HB	6:J1:201:CYC:HMA1	1.54	0.72
1:i2:61:ILE:HG22	1:i2:62:ARG:HG3	1.71	0.72
5:j3:1043:GLU:HG2	5:j3:1046:ARG:HH12	1.55	0.72
3:L1:141:LEU:HD13	3:L1:145:GLU:HB3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a2:49:ARG:HH22	1:a2:140:LEU:HD21	1.54	0.72
1:m2:61:ILE:HG22	1:m2:62:ARG:HG2	1.71	0.72
1:q2:13:ALA:HB2	5:j3:1046:ARG:HD2	1.72	0.72
2:F3:60:LEU:HB3	2:F3:72:MET:HE1	1.70	0.72
1:M3:115:MET:HE1	2:R3:75:THR:HG22	1.72	0.72
1:H1:25:ARG:HB3	5:j3:42:GLN:HG2	1.72	0.71
1:K3:24:ASP:OD2	1:U3:36:ARG:NH2	2.23	0.71
3:K1:62:ARG:HH11	3:K1:125:ALA:HB2	1.55	0.71
2:d2:84:ASP:OD2	2:d2:116:TYR:OH	2.08	0.71
1:m2:37:LEU:HD23	1:m2:97:VAL:HG12	1.72	0.71
6:J3:201:CYC:HMA3	6:J3:201:CYC:HB	1.55	0.71
5:j3:1118:THR:HG23	6:j3:1205:CYC:HBA1	1.70	0.71
1:s2:2:SER:N	1:s2:102:THR:HG1	1.89	0.71
5:k3:75:ILE:HG13	5:k3:76:PHE:HD1	1.54	0.71
5:k3:965:GLN:HB3	5:k3:969:VAL:HG11	1.71	0.71
1:u2:97:VAL:HG11	2:v2:19:LEU:HD11	1.72	0.71
1:Q3:57:GLN:HA	1:Q3:60:GLN:HE21	1.53	0.71
3:L1:126:MET:HE1	6:L1:201:CYC:HMC2	1.70	0.71
1:k2:4:LEU:HD23	1:k2:26:ILE:HD13	1.70	0.71
4:y2:6:LYS:HB3	4:y2:55:LYS:HB2	1.70	0.71
1:H1:50:ILE:HD11	1:H1:140:LEU:HD21	1.71	0.71
4:x2:4:TYR:HB2	4:x2:58:THR:HG21	1.72	0.71
5:k3:21:MET:HE1	5:k3:43:LEU:HD12	1.72	0.71
2:I1:57:ALA:HA	2:I1:61:ILE:HD11	1.72	0.71
4:z1:11:ILE:HG13	4:z1:44:ILE:HG23	1.71	0.71
2:P2:85:MET:HE3	2:P2:133:MET:HE2	1.73	0.71
2:v2:58:LYS:O	5:j3:1155:ARG:NH2	2.24	0.71
2:D3:85:MET:HG3	2:D3:133:MET:HE1	1.72	0.71
1:Y3:2:SER:N	1:Y3:102:THR:HG1	1.87	0.71
5:k3:1047:LYS:HA	5:k3:1051:GLU:HG2	1.70	0.71
1:A1:19:SER:OG	1:Y3:100:ASP:OD1	2.07	0.71
6:Y3:201:CYC:HB	6:Y3:201:CYC:HMA1	1.56	0.71
6:j3:1204:CYC:HB	6:j3:1204:CYC:HMA1	1.54	0.71
2:F1:3:ASP:OD1	2:F1:6:THR:OG1	2.09	0.71
5:j3:187:ARG:HH12	5:j3:196:ILE:HG21	1.56	0.71
1:a2:37:LEU:HD21	2:b2:27:LEU:HD12	1.72	0.71
1:c2:36:ARG:NH1	1:c2:152:TYR:OH	2.23	0.71
2:g3:83:ARG:HG2	2:g3:84:ASP:H	1.56	0.71
5:j3:209:ASN:HA	5:j3:212:ARG:HG2	1.72	0.71
5:k3:1069:ARG:HD3	5:k3:1115:ARG:HH21	1.56	0.71
1:O2:5:THR:HA	2:P2:1:MET:HE1	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X2:85:MET:HA	2:X2:85:MET:HE3	1.73	0.70
4:y2:8:THR:OG1	4:y2:29:THR:OG1	2.09	0.70
2:T3:76:ARG:NE	1:U3:106:GLU:OE1	2.23	0.70
1:C2:72:ALA:HA	1:C2:77:MET:HB3	1.72	0.70
2:J2:75:THR:HG22	1:K2:115:MET:HE1	1.72	0.70
1:k2:43:LEU:HD11	1:k2:141:LEU:HD11	1.72	0.70
1:q2:50:ILE:HG23	1:q2:136:VAL:HG23	1.74	0.70
6:O3:201:CYC:HB	6:O3:201:CYC:HMA1	1.56	0.70
4:M1:4:TYR:N	4:M1:58:THR:OG1	2.25	0.70
5:j3:949:ARG:NH1	5:j3:954:GLU:OE2	2.24	0.70
5:k3:750:ARG:NH2	5:k3:884:TRP:O	2.24	0.70
4:M1:3:ARG:HH12	4:M1:67:VAL:HG13	1.55	0.70
1:s2:50:ILE:HG12	1:s2:136:VAL:HG12	1.74	0.70
1:W2:89:LEU:HB2	1:W2:133:MET:HE1	1.72	0.70
1:o2:97:VAL:HG21	2:p2:27:LEU:HD13	1.72	0.70
6:U3:201:CYC:HB	6:U3:201:CYC:HMA1	1.56	0.70
4:z3:26:THR:HG21	6:z3:101:CYC:HBA1	1.74	0.70
2:f2:36:VAL:HA	2:f2:39:ARG:HD3	1.74	0.70
2:g3:3:ASP:OD1	2:g3:3:ASP:N	2.25	0.70
1:A1:34:GLU:OE1	1:A1:34:GLU:N	2.24	0.70
1:H1:94:TYR:OH	2:I1:17:LYS:O	2.10	0.70
3:L1:126:MET:HE1	6:L1:201:CYC:H3C	1.73	0.70
1:C3:97:VAL:HG21	2:D3:19:LEU:HD11	1.74	0.70
1:O3:91:LEU:HD11	1:O3:107:ILE:HG21	1.72	0.70
2:J1:8:VAL:HG11	2:J1:27:LEU:HD21	1.74	0.70
4:M1:11:ILE:HG13	4:M1:44:ILE:HG23	1.72	0.70
1:I2:128:GLU:OE1	1:I2:131:ARG:NH1	2.24	0.70
1:W2:23:LEU:HD22	2:X2:38:VAL:HG13	1.73	0.70
1:O3:106:GLU:HA	1:O3:110:ILE:HD11	1.73	0.70
2:D1:44:ILE:HD11	2:D1:89:LEU:HD11	1.74	0.70
2:R2:77:ARG:NH2	4:z2:62:GLY:O	2.25	0.70
1:o2:105:GLU:HG3	1:o2:109:ILE:HD11	1.72	0.70
2:L3:46:SER:HB3	1:U3:154:ASP:HB3	1.72	0.70
2:f2:112:LEU:HD23	2:f2:160:LEU:HD21	1.74	0.69
1:g2:43:LEU:HD21	1:g2:141:LEU:HD11	1.74	0.69
1:s2:12:ASP:OD2	2:t2:107:ARG:NH1	2.25	0.69
6:W3:201:CYC:HB	6:W3:201:CYC:HMA1	1.56	0.69
5:k3:481:ILE:HD11	5:k3:484:GLY:HA3	1.73	0.69
2:I1:59:ALA:HB3	2:I1:60:LEU:HD22	1.73	0.69
1:G3:53:GLN:HE21	1:G3:57:GLN:HE21	1.37	0.69
1:U2:24:ASP:HA	1:U2:27:LYS:HE2	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h2:46:SER:OG	2:h2:47:ASN:OD1	2.09	0.69
5:j3:481:ILE:HD11	5:j3:484:GLY:HA3	1.73	0.69
5:j3:557:VAL:HG12	5:j3:559:THR:H	1.57	0.69
1:E1:110:ILE:HG13	2:J1:76:ARG:HB2	1.74	0.69
6:H1:201:CYC:HMA3	6:H1:201:CYC:HB	1.56	0.69
1:Y2:43:LEU:HD21	1:Y2:141:LEU:HD11	1.72	0.69
2:B3:112:LEU:HD13	4:z3:23:LEU:HD21	1.73	0.69
1:I3:115:MET:HA	1:I3:115:MET:HE2	1.74	0.69
2:V3:85:MET:HE1	2:V3:129:GLY:HA3	1.73	0.69
2:f3:60:LEU:HB3	2:f3:72:MET:HE1	1.75	0.69
2:I1:95:ALA:HB2	2:I1:104:LEU:HD13	1.75	0.69
1:k2:128:GLU:OE1	1:k2:131:ARG:NH1	2.25	0.69
2:l2:3:ASP:N	2:l2:6:THR:OG1	2.26	0.69
1:o2:13:ALA:O	5:k3:1002:ARG:NH2	2.24	0.69
1:q2:122:PRO:HB2	1:q2:125:ALA:HB3	1.75	0.69
1:Q3:50:ILE:HA	1:Q3:136:VAL:HG11	1.75	0.69
1:c3:85:LEU:HD22	1:c3:133:MET:HE3	1.72	0.69
1:g2:106:GLU:HA	1:g2:110:ILE:HD11	1.74	0.69
2:v2:5:ILE:HD12	2:v2:27:LEU:HD22	1.75	0.69
1:C3:115:MET:HE2	1:C3:115:MET:HA	1.75	0.69
2:H3:1:MET:N	2:H3:106:GLU:OE2	2.23	0.69
2:X3:67:ARG:HG3	2:X3:68:PRO:HD2	1.73	0.69
1:Y3:4:LEU:HD23	1:Y3:26:ILE:HD13	1.74	0.69
1:A1:37:LEU:HD22	2:B1:24:LEU:HD23	1.75	0.69
1:O2:62:ARG:HG2	1:O2:65:VAL:HG13	1.73	0.69
1:k2:103:PRO:HA	5:k3:1143:LEU:HD21	1.72	0.69
1:q2:105:GLU:HA	1:q2:109:ILE:HG22	1.75	0.69
6:v2:201:CYC:HB	6:v2:201:CYC:HMA1	1.56	0.69
1:I3:4:LEU:HD23	2:J3:3:ASP:HB2	1.75	0.69
1:I3:41:GLN:HB2	2:J3:24:LEU:HD11	1.75	0.69
1:Q3:134:LYS:HE3	1:Q3:150:GLY:HA3	1.74	0.69
4:z1:16:ARG:NH2	5:k3:413:SER:O	2.26	0.69
1:i2:151:PHE:HB3	1:s2:20:PRO:HB3	1.75	0.69
2:l2:76:ARG:HB2	1:m2:110:ILE:HG13	1.75	0.69
1:E3:102:THR:HG23	1:E3:103:PRO:HD3	1.74	0.69
1:e3:48:GLU:OE1	1:e3:48:GLU:N	2.24	0.69
5:j3:750:ARG:NH2	5:j3:884:TRP:O	2.23	0.69
5:j3:1081:VAL:HG21	6:j3:1204:CYC:HMA3	1.74	0.69
2:n2:76:ARG:NH1	6:k3:1205:CYC:O1D	2.25	0.69
1:E3:97:VAL:HG11	2:F3:27:LEU:HD13	1.75	0.69
1:G3:29:PHE:O	1:G3:36:ARG:NH2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L3:1:MET:HE2	2:L3:103:ILE:HD12	1.75	0.69
1:Y3:128:GLU:OE1	1:Y3:131:ARG:NH1	2.25	0.69
5:j3:631:HIS:HA	5:j3:664:MET:HE3	1.74	0.69
3:K1:9:MET:HA	3:K1:9:MET:HE3	1.75	0.68
3:K1:93:THR:HA	3:K1:96:ILE:HG22	1.74	0.68
2:V2:24:LEU:HD23	2:V2:27:LEU:HD21	1.73	0.68
1:M3:72:ALA:HA	1:M3:77:MET:HB3	1.74	0.68
1:U3:22:GLU:HA	1:U3:25:ARG:HG2	1.73	0.68
5:j3:56:ILE:HG12	5:j3:214:PHE:HE2	1.59	0.68
2:D1:75:THR:HG21	3:K1:112:ILE:HD13	1.75	0.68
6:g2:201:CYC:HMA1	6:g2:201:CYC:HB	1.58	0.68
2:J3:143:PRO:O	2:J3:147:LYS:NZ	2.26	0.68
1:Q3:37:LEU:HD11	2:R3:27:LEU:HD11	1.73	0.68
2:b3:143:PRO:O	2:b3:147:LYS:NZ	2.26	0.68
2:g3:147:LYS:O	2:g3:148:GLU:HG2	1.93	0.68
5:k3:777:ASP:OD2	5:k3:834:LYS:NZ	2.25	0.68
2:J1:12:TYR:HA	2:J1:15:GLN:HE22	1.59	0.68
3:L1:92:ILE:HD13	3:L1:153:PHE:HE1	1.58	0.68
1:O2:6:LYS:HA	1:O2:9:VAL:HG12	1.76	0.68
1:G2:16:ARG:O	2:H2:94:TYR:OH	2.12	0.68
1:I2:72:ALA:HA	1:I2:77:MET:HB3	1.74	0.68
6:C1:201:CYC:HB	6:C1:201:CYC:HMA1	1.59	0.68
1:S2:37:LEU:HD22	2:T2:24:LEU:HD22	1.75	0.68
6:U2:201:CYC:HB	6:U2:201:CYC:HMA1	1.58	0.68
1:u2:23:LEU:HD12	2:v2:38:VAL:HG12	1.75	0.68
1:W3:39:ILE:HD12	1:W3:145:ASP:HB3	1.74	0.68
2:g3:83:ARG:HD2	5:k3:259:PRO:HD3	1.74	0.68
1:C1:156:LEU:HD22	1:C1:160:MET:HE2	1.75	0.68
4:z1:41:GLN:NE2	4:z1:45:GLN:OE1	2.27	0.68
1:Y2:61:ILE:HG22	1:Y2:62:ARG:HG2	1.75	0.68
6:o2:201:CYC:HMA1	6:o2:201:CYC:HB	1.58	0.68
1:A3:28:SER:O	1:A3:30:VAL:N	2.27	0.68
6:K3:201:CYC:HB	6:K3:201:CYC:HMA1	1.57	0.68
1:E1:105:GLU:HA	1:E1:109:ILE:HG12	1.75	0.68
1:o2:27:LYS:HD3	2:p2:38:VAL:HG21	1.75	0.68
6:D3:201:CYC:HMA3	6:D3:201:CYC:HB	1.58	0.68
2:b3:60:LEU:HB3	2:b3:72:MET:HE1	1.76	0.68
2:B1:76:ARG:HD2	1:C1:110:ILE:HD13	1.74	0.68
1:H1:25:ARG:NH2	5:j3:39:GLU:OE2	2.26	0.68
2:J1:32:THR:HG23	2:J1:33:THR:HG23	1.76	0.68
1:A2:16:ARG:O	2:B2:94:TYR:OH	2.12	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C2:113:LYS:NZ	1:C2:161:GLN:OXT	2.27	0.68
1:I3:97:VAL:HG21	2:J3:19:LEU:HD11	1.76	0.68
2:b3:17:LYS:HA	2:b3:17:LYS:HE3	1.76	0.68
5:k3:277:ILE:O	5:k3:279:GLY:N	2.26	0.68
2:B1:33:THR:HG21	2:B1:37:ARG:HH21	1.57	0.68
1:Q2:26:ILE:HD11	2:R2:38:VAL:HG22	1.75	0.68
2:R2:54:GLU:HG2	2:R2:136:VAL:HG11	1.76	0.68
2:R2:85:MET:HA	2:R2:85:MET:HE3	1.75	0.68
1:c2:61:ILE:HG22	1:c2:62:ARG:HG2	1.74	0.68
1:A3:121:THR:HG23	6:A3:201:CYC:HMC3	1.74	0.68
1:E3:126:VAL:HG12	1:E3:160:MET:HE3	1.75	0.68
1:K3:142:SER:OG	1:K3:145:ASP:OD1	2.12	0.68
2:L3:148:GLU:HA	2:L3:151:ILE:HD13	1.75	0.68
1:K2:105:GLU:HG3	1:K2:109:ILE:HD11	1.73	0.68
1:c2:46:ALA:HA	1:c2:49:ARG:HH21	1.58	0.68
1:m2:109:ILE:HG12	1:m2:159:ALA:HB1	1.75	0.68
2:g3:83:ARG:NH1	5:k3:257:THR:O	2.28	0.68
2:h3:85:MET:HE1	6:h3:201:CYC:HBC1	1.75	0.68
2:F1:107:ARG:NH1	3:K1:12:ASP:OD2	2.28	0.67
3:L1:141:LEU:HB3	3:L1:145:GLU:HB2	1.75	0.67
1:S2:27:LYS:HE3	2:T2:38:VAL:HG11	1.77	0.67
2:d2:54:GLU:N	2:d2:54:GLU:OE2	2.27	0.67
1:s2:37:LEU:HD23	1:s2:97:VAL:HG12	1.76	0.67
4:x2:11:ILE:HD11	4:x2:44:ILE:HG23	1.75	0.67
1:A3:16:ARG:O	2:B3:94:TYR:OH	2.11	0.67
1:K3:154:ASP:OD1	2:V3:46:SER:HB3	1.93	0.67
1:U3:97:VAL:HG21	2:V3:19:LEU:HD11	1.76	0.67
2:V3:76:ARG:HD2	1:W3:110:ILE:HD11	1.74	0.67
1:W3:109:ILE:HD12	1:W3:110:ILE:HG23	1.76	0.67
1:c3:16:ARG:O	2:d3:94:TYR:OH	2.12	0.67
2:h3:3:ASP:OD1	2:h3:3:ASP:N	2.25	0.67
3:L1:85:LEU:HD11	6:L1:201:CYC:HBC1	1.76	0.67
1:Y2:110:ILE:O	2:d2:75:THR:OG1	2.08	0.67
1:e2:91:LEU:HD11	1:e2:156:LEU:HD11	1.76	0.67
1:m2:50:ILE:HG12	1:m2:136:VAL:HG12	1.77	0.67
4:z2:35:GLU:OE1	4:z2:35:GLU:N	2.27	0.67
6:x2:101:CYC:HB	6:x2:101:CYC:HMA1	1.59	0.67
2:g3:92:ALA:HA	2:g3:95:ALA:HB3	1.75	0.67
2:B1:76:ARG:HD2	1:C1:110:ILE:HG21	1.75	0.67
1:C1:94:TYR:OH	2:D1:17:LYS:O	2.10	0.67
2:V2:143:PRO:O	2:V2:147:LYS:NZ	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b2:143:PRO:O	2:b2:147:LYS:NZ	2.28	0.67
2:T3:60:LEU:HB3	2:T3:72:MET:HE1	1.75	0.67
2:G1:5:ILE:HG13	2:G1:27:LEU:HD22	1.75	0.67
1:G2:109:ILE:HD12	1:G2:110:ILE:HG23	1.76	0.67
1:U2:95:GLY:HA3	1:U2:104:ILE:HD11	1.75	0.67
1:u2:6:LYS:NZ	1:u2:102:THR:OG1	2.28	0.67
1:K3:105:GLU:OE2	1:K3:155:TYR:OH	2.13	0.67
2:L3:17:LYS:HE3	2:L3:18:TYR:H	1.58	0.67
2:L3:52:ILE:HG12	2:L3:133:MET:HE2	1.76	0.67
5:k3:382:ILE:HD11	5:k3:401:LEU:HD22	1.75	0.67
1:Q2:64:ASP:O	1:Q2:67:SER:OG	2.12	0.67
1:a2:128:GLU:OE2	1:a2:131:ARG:NH1	2.28	0.67
1:q2:39:ILE:HG12	1:q2:145:ASP:HB3	1.76	0.67
4:x2:63:ALA:HA	4:x2:67:VAL:HG21	1.75	0.67
1:C1:91:LEU:HD11	1:C1:107:ILE:HG21	1.77	0.67
1:c3:61:ILE:HG22	1:c3:62:ARG:HG2	1.74	0.67
1:c3:72:ALA:HA	1:c3:77:MET:HB3	1.76	0.67
6:d3:201:CYC:HB	6:d3:201:CYC:HMA1	1.59	0.67
5:j3:138:PRO:HB3	5:j3:201:VAL:HG11	1.76	0.67
5:k3:885:GLN:O	5:k3:901:TYR:OH	2.12	0.67
1:A1:32:SER:HB2	1:A1:35:ARG:HH11	1.60	0.67
1:O2:2:SER:N	1:O2:102:THR:HG1	1.92	0.67
1:q2:61:ILE:HG22	1:q2:62:ARG:HG2	1.77	0.67
2:D3:2:GLN:OE1	2:D3:10:ASN:ND2	2.28	0.67
1:E3:130:VAL:HG21	1:E3:160:MET:HE1	1.76	0.67
2:b3:90:ARG:NH1	5:k3:32:ASP:OD1	2.27	0.67
1:c3:4:LEU:HD23	1:c3:26:ILE:HD13	1.77	0.67
3:L1:57:GLY:HA2	3:L1:60:GLN:HE22	1.60	0.67
1:M2:16:ARG:O	2:N2:94:TYR:OH	2.13	0.67
1:Y2:94:TYR:OH	2:Z2:17:LYS:O	2.11	0.67
2:D3:144:ASP:O	2:D3:147:LYS:NZ	2.26	0.67
1:G3:5:THR:HG23	2:H3:1:MET:HE1	1.75	0.67
6:I3:201:CYC:HMA3	6:I3:201:CYC:HB	1.59	0.67
1:a3:21:GLY:O	1:a3:25:ARG:NH2	2.27	0.67
1:C1:24:ASP:HA	1:C1:27:LYS:HE2	1.75	0.67
6:F1:201:CYC:HMA3	6:F1:201:CYC:HB	1.60	0.67
2:N2:113:LYS:NZ	2:N2:160:LEU:O	2.28	0.67
1:U2:4:LEU:HD23	1:U2:26:ILE:HD12	1.77	0.67
2:V2:122:PRO:HB2	2:V2:125:ALA:HB3	1.75	0.67
1:H1:91:LEU:HD12	1:H1:104:ILE:HA	1.77	0.67
1:S2:16:ARG:O	2:T2:94:TYR:OH	2.13	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:1125:ARG:HA	5:j3:1128:VAL:HG12	1.77	0.67
2:h3:46:SER:OG	2:h3:47:ASN:OD1	2.13	0.67
1:H1:97:VAL:HG21	2:I1:19:LEU:HD11	1.76	0.66
2:D3:57:ALA:HA	2:D3:61:ILE:HD11	1.78	0.66
2:J3:75:THR:HG22	1:K3:115:MET:HE1	1.75	0.66
2:B2:91:TYR:OH	2:B2:107:ARG:NH2	2.27	0.66
1:C2:91:LEU:HD21	1:C2:107:ILE:HG21	1.77	0.66
1:Q2:29:PHE:O	1:Q2:36:ARG:NH2	2.28	0.66
2:l2:143:PRO:O	2:l2:147:LYS:NZ	2.27	0.66
1:o2:6:LYS:NZ	1:o2:102:THR:OG1	2.28	0.66
1:K3:36:ARG:NH2	1:K3:152:TYR:OH	2.28	0.66
1:c3:114:GLU:N	1:c3:114:GLU:OE2	2.27	0.66
5:j3:753:PHE:HB3	5:j3:767:LEU:HD23	1.77	0.66
6:A1:201:CYC:HB	6:A1:201:CYC:HMA1	1.60	0.66
1:E1:19:SER:HB3	1:E1:22:GLU:HG3	1.77	0.66
3:L1:58:LEU:HD13	3:L1:129:SER:HA	1.76	0.66
2:H3:122:PRO:HG2	6:H3:201:CYC:HMC3	1.76	0.66
2:T3:143:PRO:O	2:T3:147:LYS:NZ	2.27	0.66
2:J1:94:TYR:OH	3:L1:16:ARG:O	2.13	0.66
3:K1:123:ILE:HD11	5:k3:238:ARG:HG3	1.78	0.66
4:z1:11:ILE:HD11	4:z1:44:ILE:HG12	1.77	0.66
1:e2:94:TYR:OH	2:f2:17:LYS:O	2.12	0.66
1:g2:62:ARG:HG2	1:g2:65:VAL:HG13	1.76	0.66
2:p2:96:MET:HG3	2:p2:149:ALA:HA	1.77	0.66
1:I3:91:LEU:HD21	1:I3:107:ILE:HG21	1.76	0.66
2:R3:60:LEU:O	2:R3:63:SER:OG	2.12	0.66
1:S2:37:LEU:HD12	2:T2:28:LYS:HZ3	1.60	0.66
2:l2:70:GLY:O	2:l2:77:ARG:NH2	2.28	0.66
1:A3:53:GLN:HE21	1:A3:57:GLN:HE21	1.44	0.66
2:g3:76:ARG:HA	2:g3:79:ALA:HB3	1.78	0.66
2:B1:67:ARG:HG2	2:B1:68:PRO:HD2	1.77	0.66
2:L2:143:PRO:O	2:L2:147:LYS:NZ	2.29	0.66
6:c2:201:CYC:HMA3	6:c2:201:CYC:HB	1.61	0.66
2:t2:63:SER:HB2	2:t2:65:LEU:HD12	1.77	0.66
2:J3:83:ARG:HD2	4:i3:38:PHE:HE2	1.60	0.66
1:M3:102:THR:O	1:M3:106:GLU:HG2	1.96	0.66
2:N3:144:ASP:O	2:N3:147:LYS:NZ	2.29	0.66
1:U3:113:LYS:NZ	1:U3:161:GLN:OXT	2.27	0.66
2:b3:115:THR:HG23	5:k3:449:ARG:HD3	1.78	0.66
5:k3:278:TYR:HB2	5:k3:284:PRO:HG2	1.77	0.66
2:B1:109:LEU:HD13	2:B1:159:GLY:HA3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J1:107:ARG:HH22	3:L1:9:MET:HE1	1.61	0.66
1:A2:94:TYR:OH	2:B2:17:LYS:O	2.13	0.66
1:e2:4:LEU:HD23	1:e2:26:ILE:HD13	1.77	0.66
2:h2:144:ASP:OD1	2:h2:144:ASP:N	2.28	0.66
2:v2:51:ILE:HG12	2:v2:136:VAL:HG23	1.77	0.66
1:C3:12:ASP:OD2	2:D3:107:ARG:NH1	2.28	0.66
2:J3:2:GLN:OE1	2:J3:10:ASN:ND2	2.28	0.66
2:N3:75:THR:HG22	1:O3:115:MET:HE3	1.77	0.66
5:j3:162:TRP:HZ2	2:h3:74:THR:HG22	1.61	0.66
5:k3:1020:GLU:HG3	5:k3:1024:LYS:HE3	1.77	0.66
2:G1:33:THR:HG21	2:G1:37:ARG:HH21	1.61	0.66
2:L2:106:GLU:O	2:L2:110:ASN:ND2	2.28	0.66
2:p2:40:ALA:HB3	2:p2:96:MET:HE1	1.77	0.66
1:s2:49:ARG:HA	1:s2:52:LYS:HE2	1.77	0.66
1:s2:72:ALA:HA	1:s2:77:MET:HB3	1.77	0.66
2:f3:38:VAL:HG12	5:j3:40:VAL:HG13	1.78	0.66
1:H1:12:ASP:OD2	4:M1:21:ARG:NH1	2.28	0.66
1:H1:51:VAL:HG22	1:H1:133:MET:HE3	1.77	0.66
2:J1:118:SER:O	4:M1:61:GLN:NE2	2.29	0.66
1:S2:9:VAL:HG21	4:w2:69:ALA:HB1	1.78	0.66
2:n2:54:GLU:N	2:n2:54:GLU:OE2	2.29	0.66
1:u2:16:ARG:O	2:v2:94:TYR:OH	2.13	0.66
2:H3:84:ASP:OD2	2:H3:116:TYR:OH	2.13	0.66
2:J3:106:GLU:HG3	2:J3:107:ARG:HG3	1.77	0.66
1:M3:16:ARG:O	2:N3:94:TYR:OH	2.13	0.66
5:k3:282:GLY:C	5:k3:284:PRO:HD2	2.20	0.66
2:J1:3:ASP:H	2:J1:6:THR:HG22	1.61	0.66
3:K1:55:SER:HB3	3:K1:82:ILE:HD12	1.78	0.66
1:W2:53:GLN:OE1	1:W2:53:GLN:N	2.29	0.66
2:Z2:83:ARG:NH1	5:k3:1023:SER:OG	2.29	0.66
1:K3:102:THR:HG23	1:K3:103:PRO:HD3	1.78	0.66
5:k3:153:MET:HE2	5:k3:153:MET:HA	1.78	0.66
1:A1:16:ARG:O	2:B1:94:TYR:OH	2.14	0.65
2:B1:146:ALA:O	2:B1:150:SER:OG	2.13	0.65
2:F1:94:TYR:OH	3:K1:16:ARG:O	2.14	0.65
4:z1:30:LYS:HE2	4:z1:32:VAL:HG12	1.78	0.65
2:N2:76:ARG:HB2	1:O2:110:ILE:HD11	1.77	0.65
2:f2:115:THR:HG23	5:j3:1027:ASN:HD21	1.60	0.65
1:i2:4:LEU:HD12	1:i2:5:THR:HG23	1.77	0.65
1:i2:31:ALA:O	1:i2:35:ARG:NH2	2.29	0.65
1:u2:20:PRO:HA	1:u2:23:LEU:HD23	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C3:41:GLN:HB2	2:D3:24:LEU:HD11	1.77	0.65
2:D3:61:ILE:HA	2:D3:66:THR:HG21	1.77	0.65
5:k3:759:THR:O	5:k3:763:SER:OG	2.13	0.65
5:k3:838:GLY:O	5:k3:901:TYR:OH	2.09	0.65
1:M3:12:ASP:OD2	2:N3:107:ARG:NH1	2.28	0.65
2:N3:115:THR:HG23	5:k3:486:ILE:HD11	1.78	0.65
2:P3:114:GLU:HB2	5:k3:496:GLU:HG3	1.78	0.65
1:Q3:47:ARG:NH1	1:Q3:86:ASP:OD1	2.29	0.65
1:W3:43:LEU:HD11	1:W3:141:LEU:HD11	1.77	0.65
1:a3:126:VAL:HG12	1:a3:160:MET:HE1	1.78	0.65
2:F1:57:ALA:HA	2:F1:61:ILE:HG12	1.79	0.65
1:k2:115:MET:HA	1:k2:115:MET:HE3	1.76	0.65
2:F3:143:PRO:O	2:F3:147:LYS:NZ	2.29	0.65
1:G3:16:ARG:O	2:H3:94:TYR:OH	2.13	0.65
5:j3:885:GLN:O	5:j3:901:TYR:OH	2.14	0.65
1:Q2:50:ILE:HD13	1:Q2:136:VAL:HG12	1.77	0.65
2:L3:147:LYS:H	2:L3:147:LYS:HD3	1.61	0.65
5:j3:298:ARG:NH2	5:j3:308:ASP:OD1	2.30	0.65
2:J1:107:ARG:NH1	3:L1:12:ASP:OD2	2.30	0.65
1:C2:50:ILE:HG12	1:C2:136:VAL:HG12	1.79	0.65
2:X2:77:ARG:NH2	4:w2:62:GLY:O	2.30	0.65
1:E3:95:GLY:HA3	1:E3:104:ILE:HD11	1.77	0.65
1:S3:16:ARG:O	2:T3:94:TYR:OH	2.13	0.65
1:e3:25:ARG:HD2	1:e3:26:ILE:H	1.62	0.65
5:j3:269:LEU:HD22	5:j3:428:VAL:HG13	1.77	0.65
5:j3:282:GLY:C	5:j3:284:PRO:HD2	2.21	0.65
1:C2:89:LEU:HB2	1:C2:133:MET:HE3	1.77	0.65
2:D2:124:ALA:HB3	2:J2:124:ALA:HB3	1.78	0.65
1:G2:94:TYR:OH	2:H2:17:LYS:O	2.14	0.65
1:M2:112:VAL:HA	1:M2:115:MET:HB2	1.78	0.65
1:S2:115:MET:HE1	2:X2:78:TYR:HB3	1.77	0.65
2:T2:64:ASP:OD1	2:T2:67:ARG:NH1	2.30	0.65
1:W2:35:ARG:HH22	1:W2:144:ASP:HB2	1.62	0.65
2:F2:112:LEU:HD23	2:F2:160:LEU:HD21	1.78	0.65
2:N2:95:ALA:HB2	2:N2:104:LEU:HG	1.79	0.65
1:O2:122:PRO:HG2	1:O2:125:ALA:HB3	1.78	0.65
6:k2:201:CYC:HMA3	6:k2:201:CYC:HB	1.62	0.65
1:O3:6:LYS:NZ	1:O3:100:ASP:OD2	2.29	0.65
2:T3:112:LEU:HD23	2:T3:160:LEU:HD21	1.77	0.65
5:j3:634:LEU:HD12	5:j3:664:MET:HE2	1.76	0.65
5:j3:777:ASP:OD2	5:j3:834:LYS:NZ	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:1041:ARG:NH1	5:j3:1094:ASP:OD2	2.29	0.65
5:k3:277:ILE:O	5:k3:278:TYR:C	2.39	0.65
5:k3:1027:ASN:ND2	5:k3:1029:GLU:OE2	2.23	0.65
1:E1:34:GLU:OE2	1:E1:34:GLU:N	2.29	0.65
1:A2:50:ILE:HA	1:A2:136:VAL:HG11	1.78	0.65
1:c2:64:ASP:HA	1:c2:67:SER:HB2	1.79	0.65
1:k2:39:ILE:HG12	1:k2:145:ASP:HB3	1.77	0.65
2:r2:3:ASP:N	2:r2:6:THR:OG1	2.29	0.65
6:u2:201:CYC:HMA3	6:u2:201:CYC:HB	1.62	0.65
2:D3:70:GLY:O	2:D3:77:ARG:NH2	2.30	0.65
1:I3:12:ASP:OD2	2:J3:107:ARG:NH1	2.30	0.65
2:F1:6:THR:HG21	3:K1:5:LEU:HD22	1.79	0.65
6:E1:201:CYC:HMA1	6:E1:201:CYC:HB	1.61	0.65
1:m2:130:VAL:HA	1:m2:133:MET:HE3	1.79	0.65
1:O2:50:ILE:HD11	1:O2:140:LEU:HD12	1.79	0.65
1:g2:36:ARG:NH2	1:u2:24:ASP:OD2	2.30	0.65
2:j2:83:ARG:NH1	2:j2:84:ASP:OD1	2.30	0.65
1:m2:37:LEU:HD13	2:n2:28:LYS:HE3	1.78	0.65
4:y2:43:ARG:HD2	5:j3:1103:LEU:HD11	1.79	0.65
2:D3:141:VAL:HB	2:D3:145:ALA:HB3	1.77	0.65
2:J3:61:ILE:HA	2:J3:66:THR:HG21	1.77	0.65
1:e3:114:GLU:OE2	1:e3:114:GLU:N	2.29	0.65
2:F1:143:PRO:O	2:F1:147:LYS:NZ	2.28	0.64
1:E1:110:ILE:HD11	2:J1:76:ARG:HH11	1.61	0.64
2:H2:84:ASP:OD2	2:H2:116:TYR:OH	2.15	0.64
1:S2:81:CYS:O	1:S2:85:LEU:HD22	1.97	0.64
4:w2:40:GLU:OE2	5:j3:803:LYS:NZ	2.30	0.64
2:J3:89:LEU:HB2	2:J3:133:MET:HE1	1.79	0.64
1:K3:89:LEU:HB2	1:K3:133:MET:HE3	1.77	0.64
2:R3:67:ARG:HG3	2:R3:68:PRO:HD2	1.78	0.64
5:j3:153:MET:HA	5:j3:153:MET:HE2	1.79	0.64
2:D1:148:GLU:OE1	2:D1:148:GLU:N	2.30	0.64
3:K1:141:LEU:HD13	3:K1:145:GLU:HB3	1.77	0.64
2:T2:54:GLU:OE1	2:T2:54:GLU:N	2.30	0.64
1:c2:20:PRO:HG3	1:m2:155:TYR:CG	2.32	0.64
1:i2:2:SER:O	1:i2:6:LYS:HG2	1.97	0.64
2:p2:113:LYS:NZ	2:p2:161:SER:O	2.31	0.64
2:r2:78:TYR:HB3	1:s2:115:MET:HE1	1.79	0.64
2:R3:12:TYR:HE2	2:R3:20:ASP:H	1.44	0.64
1:Y3:44:THR:HG22	2:Z3:18:TYR:HD2	1.62	0.64
5:k3:557:VAL:HG12	5:k3:559:THR:H	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:16:ARG:O	2:R2:94:TYR:OH	2.14	0.64
1:s2:81:CYS:O	1:s2:85:LEU:HG	1.97	0.64
2:B3:113:LYS:NZ	2:B3:161:SER:O	2.28	0.64
5:k3:1041:ARG:NH1	5:k3:1094:ASP:OD2	2.29	0.64
5:k3:1081:VAL:HG21	6:k3:1204:CYC:HMA3	1.79	0.64
2:h3:134:LYS:HD3	2:h3:153:PHE:HB2	1.80	0.64
1:A2:72:ALA:HA	1:A2:77:MET:HB3	1.79	0.64
1:c2:20:PRO:HG2	1:m2:101:VAL:HB	1.77	0.64
1:u2:68:PRO:HG2	1:A3:61:ILE:HD13	1.79	0.64
4:w2:60:VAL:HG23	4:w2:63:ALA:H	1.62	0.64
2:T3:62:TYR:OH	6:U3:201:CYC:O1D	2.14	0.64
1:Y3:16:ARG:O	2:Z3:94:TYR:OH	2.14	0.64
2:D1:147:LYS:H	2:D1:147:LYS:HD2	1.60	0.64
2:J1:83:ARG:NH1	2:J1:84:ASP:OD1	2.30	0.64
6:Q2:201:CYC:HB	6:Q2:201:CYC:HMA1	1.62	0.64
2:X2:72:MET:HE1	2:X2:78:TYR:HA	1.79	0.64
1:m2:113:LYS:HD3	1:m2:123:ILE:HD13	1.80	0.64
2:r2:122:PRO:HG2	6:j3:1204:CYC:HMC2	1.79	0.64
2:r2:134:LYS:O	2:r2:134:LYS:HD3	1.98	0.64
1:e3:126:VAL:HG12	1:e3:160:MET:HE1	1.80	0.64
2:g3:76:ARG:HH21	5:k3:16:LEU:HD13	1.63	0.64
1:C1:105:GLU:HA	1:C1:109:ILE:CG1	2.28	0.64
3:K1:122:PRO:HA	5:k3:238:ARG:HD2	1.80	0.64
1:A2:39:ILE:HG12	1:A2:145:ASP:HB2	1.78	0.64
1:c2:32:SER:HA	1:c2:35:ARG:HE	1.62	0.64
1:g2:16:ARG:O	2:h2:94:TYR:OH	2.16	0.64
2:v2:96:MET:HG3	2:v2:149:ALA:HA	1.78	0.64
5:k3:948:SER:O	5:k3:948:SER:OG	2.16	0.64
6:k3:1205:CYC:HHA	6:k3:1205:CYC:HBD1	1.80	0.64
2:J1:15:GLN:OE1	2:J1:15:GLN:N	2.30	0.64
2:J1:50:THR:O	2:J1:54:GLU:HG2	1.98	0.64
3:K1:141:LEU:HB3	3:K1:145:GLU:HB2	1.78	0.64
2:B2:106:GLU:OE2	5:k3:822:ARG:HA	1.97	0.64
1:S2:43:LEU:HD13	1:S2:93:THR:HG22	1.80	0.64
1:c2:31:ALA:O	1:c2:35:ARG:NH2	2.31	0.64
1:e2:16:ARG:O	2:f2:94:TYR:OH	2.16	0.64
1:i2:104:ILE:HG22	1:i2:109:ILE:HD13	1.79	0.64
6:A3:201:CYC:HC	6:A3:201:CYC:HMD3	1.62	0.64
1:c3:118:SER:HA	2:f3:53:LYS:NZ	2.12	0.64
4:i3:14:LEU:HD12	4:i3:15:LYS:H	1.63	0.64
5:k3:1037:ARG:NE	5:k3:1094:ASP:OD1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:89:LEU:HB2	1:C1:133:MET:HE2	1.80	0.64
3:L1:40:ALA:HB2	3:L1:96:ILE:HG22	1.78	0.64
2:N2:84:ASP:OD2	2:N2:116:TYR:OH	2.15	0.64
1:U2:123:ILE:H	1:U2:123:ILE:HD12	1.61	0.64
2:h2:109:LEU:O	2:h2:113:LYS:NZ	2.26	0.64
2:h2:143:PRO:O	2:h2:147:LYS:NZ	2.30	0.64
1:G3:5:THR:OG1	2:H3:3:ASP:OD2	2.14	0.64
1:M3:36:ARG:HH21	1:M3:99:GLY:HA2	1.62	0.64
1:S3:94:TYR:OH	2:T3:17:LYS:O	2.15	0.64
2:Z3:62:TYR:OH	6:a3:201:CYC:O1D	2.13	0.64
5:j3:19:THR:O	5:j3:21:MET:N	2.31	0.64
2:B2:84:ASP:OD2	2:B2:116:TYR:OH	2.13	0.64
1:U2:83:ARG:NH1	6:U2:201:CYC:O1A	2.28	0.64
2:F3:60:LEU:HD13	2:F3:72:MET:HE1	1.78	0.64
1:W3:35:ARG:O	1:W3:39:ILE:HG12	1.98	0.64
1:A1:105:GLU:HA	1:A1:109:ILE:HB	1.79	0.64
2:B1:40:ALA:HB3	2:B1:96:MET:HE1	1.79	0.64
1:C1:3:VAL:HG22	5:k3:38:GLY:HA3	1.79	0.64
1:E1:61:ILE:HG22	1:E1:62:ARG:HG2	1.80	0.64
2:G1:126:THR:HG22	6:j3:1201:CYC:HBC3	1.79	0.64
2:I1:76:ARG:HD2	4:M1:14:LEU:HA	1.80	0.64
4:y2:11:ILE:HD12	4:y2:49:GLY:HA3	1.79	0.64
1:a3:25:ARG:HD2	1:a3:26:ILE:H	1.62	0.64
5:k3:209:ASN:HA	5:k3:212:ARG:HG2	1.80	0.64
1:H1:50:ILE:HA	1:H1:136:VAL:HG11	1.80	0.63
1:u2:98:ALA:HA	2:v2:5:ILE:HG21	1.80	0.63
2:F3:147:LYS:HD3	2:F3:147:LYS:H	1.61	0.63
1:S3:74:GLY:O	1:S3:78:THR:HG23	1.97	0.63
2:d3:113:LYS:NZ	2:d3:161:SER:O	2.30	0.63
5:j3:258:LEU:HD12	5:j3:259:PRO:HD2	1.79	0.63
1:S2:18:LEU:HD11	2:T2:97:LEU:HD13	1.81	0.63
2:X2:130:ILE:HA	2:X2:133:MET:HE2	1.78	0.63
5:k3:328:ILE:HB	5:k3:332:GLU:HB2	1.80	0.63
2:h3:92:ALA:HA	2:h3:95:ALA:HB3	1.80	0.63
1:C1:47:ARG:H	1:C1:47:ARG:HD2	1.63	0.63
2:D1:36:VAL:HG22	2:D1:145:ALA:HB2	1.80	0.63
2:G1:76:ARG:HB2	1:H1:110:ILE:HG23	1.80	0.63
3:K1:109:LEU:HA	3:K1:112:ILE:HD11	1.78	0.63
1:I2:12:ASP:OD2	2:J2:107:ARG:NH1	2.31	0.63
1:M2:75:GLU:N	1:M2:75:GLU:OE1	2.31	0.63
1:M2:109:ILE:HD12	1:M2:110:ILE:HG23	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:5:THR:HG23	2:R2:1:MET:HE1	1.80	0.63
1:U2:94:TYR:OH	2:V2:17:LYS:O	2.16	0.63
1:A3:27:LYS:C	1:A3:30:VAL:HG22	2.23	0.63
1:M3:74:GLY:O	1:M3:78:THR:HG23	1.98	0.63
1:Q3:92:VAL:HA	1:Q3:104:ILE:HD11	1.80	0.63
2:f3:85:MET:HG2	6:f3:201:CYC:HBC1	1.80	0.63
2:d2:81:CYS:O	2:d2:85:MET:HG2	1.98	0.63
2:r2:10:ASN:ND2	5:j3:1142:SER:O	2.31	0.63
1:K3:150:GLY:O	1:K3:154:ASP:HB2	1.97	0.63
2:f3:148:GLU:HA	2:f3:151:ILE:HD13	1.80	0.63
1:H1:2:SER:OG	1:H1:3:VAL:N	2.30	0.63
2:D2:75:THR:HG22	1:E2:115:MET:HE1	1.79	0.63
1:M2:105:GLU:HA	1:M2:109:ILE:CG1	2.29	0.63
1:a2:105:GLU:HA	1:a2:109:ILE:CG1	2.29	0.63
1:c2:3:VAL:HG13	1:m2:25:ARG:HH21	1.61	0.63
1:m2:72:ALA:HA	1:m2:77:MET:HB3	1.79	0.63
1:c3:53:GLN:OE1	1:c3:53:GLN:N	2.31	0.63
5:j3:559:THR:HG23	5:j3:560:VAL:H	1.63	0.63
1:A2:85:LEU:O	1:A2:133:MET:HE1	1.97	0.63
1:M2:4:LEU:HD23	1:M2:26:ILE:HD13	1.80	0.63
1:M2:85:LEU:HB3	1:M2:133:MET:HE2	1.80	0.63
2:b3:35:ALA:HB1	2:b3:39:ARG:HH21	1.63	0.63
2:g3:144:ASP:O	2:g3:147:LYS:NZ	2.32	0.63
5:k3:540:LEU:HD21	5:k3:544:VAL:HG21	1.81	0.63
5:k3:1033:ARG:HD2	5:k3:1102:TYR:HE2	1.63	0.63
2:D1:56:ALA:HB1	2:D1:60:LEU:HD11	1.79	0.63
1:G2:97:VAL:HG21	2:H2:19:LEU:HD11	1.81	0.63
1:Q2:123:ILE:HG13	1:Q2:124:PRO:HD3	1.79	0.63
2:b2:76:ARG:HB2	1:c2:110:ILE:HD13	1.80	0.63
2:J3:70:GLY:O	2:J3:77:ARG:NH2	2.29	0.63
2:J3:122:PRO:HG2	6:J3:201:CYC:HMC1	1.81	0.63
2:N3:62:TYR:OH	6:O3:201:CYC:O1D	2.14	0.63
5:k3:57:VAL:HG11	5:k3:172:LEU:HD21	1.80	0.63
2:G1:76:ARG:HD2	5:j3:288:LEU:HD11	1.81	0.63
1:U2:2:SER:OG	2:V2:3:ASP:OD2	2.17	0.63
1:U2:23:LEU:O	1:U2:27:LYS:HG3	1.98	0.63
1:W2:29:PHE:O	1:W2:36:ARG:NH2	2.32	0.63
1:u2:13:ALA:O	5:j3:1002:ARG:NH2	2.32	0.63
1:H1:89:LEU:HA	1:H1:92:VAL:HG12	1.81	0.63
3:L1:130:MET:HE2	3:L1:160:MET:HE1	1.79	0.63
1:S2:39:ILE:O	1:S2:43:LEU:HG	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g2:37:LEU:HD21	2:h2:27:LEU:HD12	1.80	0.63
1:i2:2:SER:N	1:i2:5:THR:OG1	2.32	0.63
2:b3:38:VAL:HG12	5:k3:40:VAL:HG13	1.81	0.63
1:A1:95:GLY:HA3	1:A1:104:ILE:HD11	1.81	0.62
2:J1:17:LYS:O	3:L1:94:TYR:OH	2.17	0.62
1:Q2:5:THR:O	1:Q2:9:VAL:HG13	1.99	0.62
1:m2:101:VAL:O	1:m2:104:ILE:N	2.31	0.62
1:E3:75:GLU:N	1:E3:75:GLU:OE2	2.31	0.62
2:D1:83:ARG:NH1	2:D1:84:ASP:OD1	2.32	0.62
2:I1:3:ASP:N	2:I1:6:THR:OG1	2.32	0.62
2:J1:85:MET:HE3	6:J1:201:CYC:HBC1	1.81	0.62
1:o2:92:VAL:HG23	1:o2:156:LEU:HD12	1.81	0.62
2:v2:77:ARG:NH2	5:j3:1144:SER:OG	2.31	0.62
6:G3:201:CYC:HC	6:G3:201:CYC:HMD3	1.64	0.62
1:I3:20:PRO:HB3	1:W3:151:PHE:CZ	2.33	0.62
1:K3:39:ILE:HG12	1:K3:145:ASP:HB3	1.80	0.62
1:H1:115:MET:HA	1:H1:115:MET:HE3	1.81	0.62
1:O2:2:SER:OG	2:P2:3:ASP:OD2	2.16	0.62
2:B3:40:ALA:HB3	2:B3:96:MET:HE1	1.82	0.62
2:f3:36:VAL:HA	2:f3:39:ARG:HD2	1.81	0.62
2:D1:3:ASP:N	2:D1:6:THR:OG1	2.32	0.62
2:V2:105:ASP:OD2	2:V2:155:TYR:OH	2.12	0.62
1:g2:77:MET:HA	1:g2:77:MET:HE3	1.81	0.62
1:i2:90:ARG:HH12	2:j2:16:GLY:HA2	1.63	0.62
2:j2:76:ARG:HH22	4:y2:63:ALA:HB1	1.63	0.62
1:I3:82:LEU:HD23	1:I3:85:LEU:HD12	1.80	0.62
2:g3:60:LEU:HB3	2:g3:72:MET:HE1	1.81	0.62
1:M2:12:ASP:OD2	2:N2:107:ARG:NH1	2.33	0.62
1:M2:105:GLU:HA	1:M2:109:ILE:HG13	1.81	0.62
2:d2:28:LYS:O	2:d2:32:THR:HG23	1.98	0.62
1:C3:72:ALA:HA	1:C3:77:MET:HB3	1.81	0.62
1:Q3:109:ILE:HD12	1:Q3:110:ILE:HG23	1.81	0.62
2:X3:10:ASN:O	2:X3:14:VAL:HG13	1.99	0.62
5:j3:71:ALA:O	5:j3:75:ILE:HG12	1.99	0.62
3:L1:117:ARG:NH1	5:j3:238:ARG:O	2.32	0.62
3:L1:134:LYS:HB2	3:L1:153:PHE:HB3	1.82	0.62
1:C2:9:VAL:HG22	2:D2:107:ARG:HH22	1.65	0.62
1:S2:105:GLU:HB2	1:S2:109:ILE:HD11	1.81	0.62
1:i2:50:ILE:H	1:i2:50:ILE:HD12	1.64	0.62
2:l2:115:THR:O	2:l2:119:LEU:HG	1.99	0.62
2:l2:130:ILE:HD12	2:l2:160:LEU:HD11	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s2:14:GLU:OE1	1:s2:16:ARG:NE	2.26	0.62
1:K3:6:LYS:NZ	1:K3:100:ASP:OD2	2.32	0.62
2:d3:64:ASP:OD2	5:j3:703:LEU:HB3	2.00	0.62
5:j3:205:GLU:HG2	5:j3:208:LYS:HE2	1.82	0.62
2:J2:62:TYR:OH	6:K2:201:CYC:O1D	2.16	0.62
1:q2:54:ALA:HA	1:q2:132:ALA:HB1	1.81	0.62
1:C3:50:ILE:HA	1:C3:136:VAL:HG11	1.81	0.62
1:Y3:97:VAL:HG11	2:Z3:19:LEU:HD11	1.81	0.62
2:f3:76:ARG:NH2	6:f3:201:CYC:O1D	2.33	0.62
1:A2:141:LEU:HB3	1:A2:145:ASP:OD1	1.99	0.62
1:K2:18:LEU:HD22	2:L2:97:LEU:HD13	1.82	0.62
2:p2:51:ILE:HG23	2:p2:136:VAL:HG21	1.82	0.62
1:u2:37:LEU:HD13	2:v2:24:LEU:HB2	1.81	0.62
2:Z3:127:VAL:HG13	2:Z3:157:SER:HB3	1.82	0.62
2:D2:75:THR:OG1	1:E2:110:ILE:O	2.11	0.62
1:c2:104:ILE:HG22	1:c2:109:ILE:HD13	1.81	0.62
1:c2:115:MET:HA	1:c2:115:MET:HE3	1.81	0.62
1:q2:109:ILE:HG12	1:q2:159:ALA:HB1	1.82	0.62
2:B1:10:ASN:O	2:B1:14:VAL:HG23	1.99	0.62
1:M2:112:VAL:HG13	1:M2:160:MET:HE1	1.80	0.62
1:W2:123:ILE:HG12	1:W2:124:PRO:HD3	1.82	0.62
1:W2:134:LYS:O	1:W2:138:THR:HG23	2.00	0.62
1:Y2:87:TYR:O	1:Y2:91:LEU:HG	2.00	0.62
5:j3:834:LYS:HB2	5:j3:900:LEU:HD23	1.82	0.62
2:h3:76:ARG:HA	2:h3:79:ALA:HB3	1.82	0.62
2:B1:127:VAL:O	2:B1:131:GLN:HG2	2.00	0.61
1:C1:3:VAL:HG13	1:C1:25:ARG:HD3	1.82	0.61
2:F1:119:LEU:HD21	4:z1:5:PHE:HZ	1.65	0.61
2:J1:85:MET:HA	2:J1:85:MET:HE2	1.82	0.61
3:K1:71:ASN:O	3:K1:77:ARG:NH1	2.33	0.61
2:D2:64:ASP:OD1	5:k3:732:ARG:NH2	2.33	0.61
2:J2:54:GLU:OE2	1:M3:49:ARG:NH2	2.33	0.61
2:V2:14:VAL:HG13	2:V2:15:GLN:HG3	1.82	0.61
1:i2:32:SER:HA	1:i2:35:ARG:HE	1.65	0.61
2:l2:10:ASN:HD21	5:k3:1144:SER:HA	1.65	0.61
1:s2:112:VAL:HA	1:s2:115:MET:HB2	1.81	0.61
1:K3:19:SER:N	1:K3:22:GLU:OE1	2.26	0.61
2:b3:20:ASP:O	2:b3:24:LEU:HG	2.00	0.61
5:j3:1033:ARG:HD2	5:j3:1102:TYR:HE2	1.63	0.61
5:k3:679:LEU:HD23	5:k3:680:PRO:HD2	1.82	0.61
6:k3:1202:CYC:HMA3	6:k3:1202:CYC:HB	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F1:127:VAL:O	2:F1:131:GLN:HG2	2.00	0.61
1:H1:57:GLN:HG3	1:H1:132:ALA:HB1	1.82	0.61
3:L1:109:LEU:HA	3:L1:112:ILE:HD11	1.82	0.61
4:M1:26:THR:HG21	6:M1:101:CYC:HAA1	1.81	0.61
1:G2:13:ALA:HB2	5:j3:816:ARG:HD2	1.80	0.61
2:L2:54:GLU:N	2:L2:54:GLU:OE2	2.33	0.61
1:Q2:144:ASP:N	1:Q2:144:ASP:OD1	2.34	0.61
1:a2:50:ILE:HG12	1:a2:136:VAL:HG12	1.81	0.61
2:r2:22:ALA:O	2:r2:26:LYS:HG3	2.00	0.61
2:v2:23:ALA:O	2:v2:27:LEU:HG	2.00	0.61
2:P3:83:ARG:NH1	5:k3:650:ASP:OD1	2.30	0.61
1:Q3:39:ILE:HD12	1:Q3:145:ASP:HB3	1.81	0.61
2:R3:10:ASN:O	2:R3:14:VAL:HG13	1.99	0.61
2:b3:67:ARG:HG2	2:b3:68:PRO:HD2	1.81	0.61
5:j3:282:GLY:O	5:j3:283:ARG:HB3	1.98	0.61
2:B1:137:VAL:O	2:B1:141:VAL:HG22	2.00	0.61
1:E1:105:GLU:HA	1:E1:109:ILE:CG1	2.30	0.61
1:E1:105:GLU:HG3	1:E1:109:ILE:HD11	1.83	0.61
2:H2:28:LYS:O	2:H2:32:THR:HG23	2.01	0.61
2:T2:87:TYR:OH	5:j3:789:SER:OG	2.13	0.61
6:Y2:201:CYC:HMA3	6:Y2:201:CYC:HB	1.65	0.61
1:g2:50:ILE:HG12	1:g2:136:VAL:HG12	1.82	0.61
1:s2:57:GLN:O	1:s2:61:ILE:HD12	2.00	0.61
2:t2:109:LEU:HD22	2:t2:159:GLY:HA3	1.82	0.61
2:B3:85:MET:CE	2:B3:133:MET:HE2	2.29	0.61
2:D3:148:GLU:OE2	2:D3:148:GLU:N	2.31	0.61
1:S3:75:GLU:N	1:S3:75:GLU:OE2	2.32	0.61
1:U3:156:LEU:O	1:U3:160:MET:HE3	2.00	0.61
2:X3:60:LEU:O	2:X3:63:SER:OG	2.18	0.61
2:g3:107:ARG:HG2	5:k3:254:PRO:HD3	1.82	0.61
2:B1:147:LYS:O	2:B1:151:ILE:HG23	2.00	0.61
6:A2:201:CYC:HMA3	6:A2:201:CYC:HB	1.65	0.61
2:H3:129:GLY:O	2:H3:133:MET:HG3	2.01	0.61
2:b3:103:ILE:HD11	2:b3:107:ARG:HD2	1.82	0.61
2:d3:65:LEU:HB3	2:d3:72:MET:HG2	1.82	0.61
1:e3:60:GLN:HA	1:e3:60:GLN:HE21	1.63	0.61
5:j3:838:GLY:O	5:j3:901:TYR:OH	2.10	0.61
1:C1:2:SER:HB2	1:C1:100:ASP:HB3	1.82	0.61
2:H2:148:GLU:HA	2:H2:151:ILE:HD13	1.82	0.61
1:I2:37:LEU:HD23	1:I2:97:VAL:HG12	1.82	0.61
1:S2:105:GLU:HA	1:S2:109:ILE:CG1	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W2:126:VAL:HG22	6:W2:201:CYC:H3C	1.82	0.61
2:l2:50:THR:HA	2:l2:53:LYS:CE	2.30	0.61
1:A3:4:LEU:HD23	1:A3:26:ILE:HG12	1.81	0.61
5:j3:1078:SER:HA	6:j3:1204:CYC:CGA	2.31	0.61
1:E1:130:VAL:HG21	1:E1:160:MET:HE1	1.81	0.61
2:G1:22:ALA:O	2:G1:26:LYS:HG3	2.01	0.61
4:M1:21:ARG:HD3	4:M1:24:GLN:NE2	2.15	0.61
2:H2:91:TYR:OH	2:H2:107:ARG:NH2	2.32	0.61
1:g2:93:THR:O	1:g2:97:VAL:HG22	2.00	0.61
1:k2:105:GLU:HA	1:k2:109:ILE:CG2	2.30	0.61
4:x2:3:ARG:NH1	6:x2:101:CYC:O2D	2.33	0.61
2:D3:147:LYS:O	2:D3:151:ILE:HG23	2.01	0.61
1:Q3:35:ARG:O	1:Q3:39:ILE:HG12	2.00	0.61
1:S3:48:GLU:OE2	1:S3:48:GLU:N	2.27	0.61
6:a3:201:CYC:HMA3	6:a3:201:CYC:HB	1.65	0.61
2:h3:88:PHE:CD2	2:h3:130:ILE:HD11	2.36	0.61
1:H1:65:VAL:HG12	1:H1:122:PRO:HG3	1.83	0.61
1:S2:4:LEU:HD23	1:S2:26:ILE:HD13	1.82	0.61
2:Z2:65:LEU:HB3	2:Z2:72:MET:HB2	1.82	0.61
6:a2:201:CYC:HMA3	6:a2:201:CYC:HB	1.65	0.61
2:f2:85:MET:HE2	6:j3:1203:CYC:HBC1	1.82	0.61
1:i2:20:PRO:HD2	1:s2:101:VAL:HB	1.83	0.61
2:l2:28:LYS:O	2:l2:32:THR:HG23	2.01	0.61
2:r2:115:THR:O	2:r2:119:LEU:HG	2.01	0.61
2:F3:114:GLU:OE1	2:F3:114:GLU:N	2.24	0.61
5:k3:19:THR:O	5:k3:21:MET:N	2.33	0.61
1:e2:88:TYR:HA	1:e2:91:LEU:HG	1.83	0.61
2:l2:75:THR:OG1	1:m2:110:ILE:O	2.14	0.61
1:q2:5:THR:HG23	2:r2:1:MET:HE3	1.82	0.61
6:q2:201:CYC:HMD1	6:q2:201:CYC:NC	2.16	0.61
1:A3:4:LEU:HD21	1:A3:26:ILE:HG23	1.83	0.61
5:j3:679:LEU:HD23	5:j3:680:PRO:HD2	1.82	0.61
2:F1:144:ASP:OD1	2:F1:144:ASP:N	2.33	0.61
2:G1:123:ILE:HD11	2:G1:161:SER:HA	1.83	0.61
1:U2:93:THR:O	1:U2:97:VAL:HG22	2.01	0.61
1:k2:122:PRO:HB2	1:k2:125:ALA:HB3	1.81	0.61
1:o2:47:ARG:NH1	1:o2:86:ASP:OD2	2.32	0.61
1:K3:90:ARG:NH1	2:L3:13:ASP:OD1	2.32	0.61
1:W3:53:GLN:HG3	1:W3:136:VAL:CG2	2.31	0.61
2:b3:19:LEU:HG	5:k3:172:LEU:HD13	1.81	0.61
2:B1:12:TYR:CE2	2:B1:23:ALA:HB2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:25:ARG:HG3	1:C1:26:ILE:HD12	1.83	0.61
1:H1:40:ALA:HB2	1:H1:97:VAL:HG12	1.81	0.61
2:J1:5:ILE:O	2:J1:9:ILE:HG13	2.00	0.61
1:a2:9:VAL:HG23	2:b2:1:MET:HE1	1.83	0.61
2:b2:85:MET:HG3	2:b2:133:MET:SD	2.41	0.61
1:U3:144:ASP:OD1	1:U3:144:ASP:N	2.34	0.61
5:j3:669:GLU:OE2	5:j3:683:ARG:NH2	2.32	0.61
1:C1:137:ALA:O	1:C1:141:LEU:HG	2.01	0.60
2:L2:1:MET:N	5:j3:749:GLN:OE1	2.34	0.60
2:N2:147:LYS:H	2:N2:147:LYS:HD3	1.64	0.60
1:Y2:115:MET:HE1	2:d2:78:TYR:CG	2.35	0.60
1:o2:41:GLN:O	1:o2:45:GLU:HG2	2.01	0.60
1:C3:32:SER:OG	1:C3:36:ARG:NE	2.33	0.60
5:k3:87:ARG:NH1	5:k3:161:ASP:OD2	2.34	0.60
5:k3:177:SER:HA	5:k3:180:GLU:OE2	2.01	0.60
5:k3:279:GLY:HA3	5:k3:282:GLY:HA2	1.82	0.60
5:k3:820:HIS:CD2	5:k3:859:ILE:HD11	2.36	0.60
1:M2:115:MET:HE2	1:M2:115:MET:HA	1.83	0.60
1:a2:93:THR:O	1:a2:97:VAL:HG22	2.01	0.60
1:k2:56:ASP:O	1:k2:60:GLN:HG2	2.01	0.60
1:o2:92:VAL:HG11	1:o2:153:PHE:CE1	2.36	0.60
1:C3:16:ARG:O	2:D3:94:TYR:OH	2.19	0.60
2:L3:85:MET:HE2	2:L3:133:MET:HE3	1.83	0.60
1:Y3:85:LEU:HD22	1:Y3:133:MET:HE3	1.82	0.60
5:k3:677:ASP:OD1	5:k3:677:ASP:N	2.35	0.60
1:A1:8:ILE:HG21	2:B1:1:MET:HE1	1.83	0.60
1:A1:39:ILE:HG23	1:A1:141:LEU:HD11	1.84	0.60
1:H1:116:TYR:HE2	1:H1:126:VAL:HG21	1.66	0.60
3:L1:127:ILE:CD1	3:L1:160:MET:HG3	2.31	0.60
2:H2:105:ASP:O	2:H2:110:ASN:ND2	2.31	0.60
1:O2:93:THR:O	1:O2:97:VAL:HG22	2.02	0.60
1:Y2:109:ILE:CG2	1:Y2:159:ALA:HB1	2.32	0.60
2:b2:54:GLU:O	2:b2:58:LYS:HG3	2.01	0.60
2:j2:106:GLU:HG3	2:j2:107:ARG:HG3	1.83	0.60
2:v2:113:LYS:NZ	2:v2:161:SER:O	2.34	0.60
2:X3:96:MET:HE2	2:X3:149:ALA:HB2	1.82	0.60
1:c3:105:GLU:HA	1:c3:109:ILE:HD11	1.83	0.60
1:e3:23:LEU:HD23	2:h3:38:VAL:HG13	1.83	0.60
5:j3:386:ILE:HD13	5:j3:393:MET:HE3	1.83	0.60
2:h3:123:ILE:HA	2:h3:126:THR:HG22	1.82	0.60
1:Y2:89:LEU:HB2	1:Y2:133:MET:CE	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a2:9:VAL:CG2	2:b2:1:MET:HE1	2.32	0.60
2:b2:147:LYS:O	2:b2:151:ILE:HG23	2.02	0.60
2:p2:83:ARG:NH1	2:p2:84:ASP:OD1	2.33	0.60
1:q2:2:SER:N	1:q2:102:THR:HG1	1.97	0.60
1:C3:75:GLU:N	1:C3:75:GLU:OE2	2.35	0.60
1:G3:125:ALA:HB3	6:G3:201:CYC:CMC	2.32	0.60
6:j3:1205:CYC:HHA	6:j3:1205:CYC:HBD1	1.81	0.60
5:k3:288:LEU:HD13	5:k3:290:SER:HA	1.84	0.60
2:J2:75:THR:OG1	1:K2:110:ILE:O	2.13	0.60
1:Y2:95:GLY:HA3	1:Y2:104:ILE:HD11	1.82	0.60
1:Y2:112:VAL:O	1:Y2:115:MET:HB2	2.01	0.60
2:l2:156:LEU:O	2:l2:160:LEU:HG	2.01	0.60
1:s2:97:VAL:HG21	2:t2:19:LEU:HD11	1.83	0.60
6:Q3:201:CYC:HMA3	6:Q3:201:CYC:HB	1.67	0.60
1:W3:83:ARG:NH1	6:W3:201:CYC:O1A	2.29	0.60
5:j3:66:MET:O	5:j3:70:ARG:HG2	2.01	0.60
5:j3:1106:PHE:CA	5:j3:1110:ILE:HD11	2.29	0.60
2:D1:104:LEU:HD22	2:D1:156:LEU:HD21	1.84	0.60
2:F1:12:TYR:HA	2:F1:15:GLN:HE22	1.66	0.60
2:F1:122:PRO:HG2	6:F1:201:CYC:HMC1	1.84	0.60
2:J1:144:ASP:N	2:J1:144:ASP:OD1	2.34	0.60
3:K1:116:TYR:HA	3:K1:119:LEU:HB3	1.82	0.60
3:K1:117:ARG:CZ	5:k3:242:PRO:HA	2.32	0.60
2:P2:76:ARG:HB2	1:Q2:110:ILE:HD11	1.82	0.60
2:V2:12:TYR:CZ	2:V2:23:ALA:HB2	2.37	0.60
2:b2:106:GLU:O	2:b2:110:ASN:ND2	2.34	0.60
1:c2:29:PHE:HE1	1:c2:99:GLY:HA3	1.67	0.60
2:h2:147:LYS:O	2:h2:151:ILE:HG23	2.01	0.60
1:k2:94:TYR:OH	2:l2:17:LYS:O	2.18	0.60
2:p2:36:VAL:HA	2:p2:39:ARG:HD2	1.81	0.60
1:q2:8:ILE:HB	2:r2:1:MET:HE1	1.82	0.60
2:r2:87:TYR:OH	5:j3:1085:GLY:HA3	2.02	0.60
1:A3:5:THR:HG23	2:B3:1:MET:HE2	1.82	0.60
1:I3:100:ASP:OD1	1:I3:102:THR:N	2.33	0.60
1:c3:144:ASP:N	1:c3:144:ASP:OD1	2.33	0.60
2:g3:88:PHE:CD2	2:g3:130:ILE:HD11	2.36	0.60
2:D1:85:MET:HE2	2:D1:133:MET:SD	2.41	0.60
2:F1:54:GLU:O	2:F1:58:LYS:HG2	2.01	0.60
3:K1:78:LEU:O	3:K1:82:ILE:HG12	2.01	0.60
2:D2:76:ARG:HB2	1:E2:110:ILE:HD11	1.84	0.60
1:s2:95:GLY:HA3	1:s2:104:ILE:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R3:96:MET:HE2	2:R3:149:ALA:HB2	1.82	0.60
1:e3:21:GLY:O	1:e3:25:ARG:NH2	2.34	0.60
6:z3:101:CYC:HBB3	6:z3:101:CYC:HMB3	1.82	0.60
1:E1:106:GLU:O	2:J1:76:ARG:NH1	2.28	0.60
2:I1:127:VAL:O	2:I1:131:GLN:HG2	2.02	0.60
2:I1:147:LYS:O	2:I1:151:ILE:HG23	2.02	0.60
2:J1:111:GLY:O	2:J1:115:THR:OG1	2.16	0.60
1:I2:93:THR:O	1:I2:97:VAL:HG22	2.02	0.60
2:N2:111:GLY:HA2	2:N2:114:GLU:OE1	2.02	0.60
2:P2:144:ASP:N	2:P2:144:ASP:OD1	2.32	0.60
2:Z2:105:ASP:OD2	2:Z2:155:TYR:OH	2.15	0.60
2:b2:2:GLN:OE1	2:b2:7:ALA:HB2	2.01	0.60
2:b2:76:ARG:HB2	1:c2:110:ILE:CD1	2.32	0.60
2:f2:3:ASP:N	2:f2:6:THR:OG1	2.34	0.60
1:g2:97:VAL:HG21	2:h2:19:LEU:HD11	1.83	0.60
1:m2:4:LEU:HD23	1:m2:26:ILE:HD13	1.84	0.60
1:Y3:18:LEU:HD22	2:Z3:97:LEU:HD13	1.84	0.60
4:i3:4:TYR:HB2	4:i3:58:THR:OG1	2.02	0.60
5:k3:1119:LEU:HD23	5:k3:1120:PRO:HD3	1.83	0.60
2:D1:10:ASN:O	2:D1:14:VAL:HG13	2.02	0.60
1:H1:106:GLU:HG2	5:j3:290:SER:OG	2.02	0.60
2:B2:37:ARG:NH2	2:B2:148:GLU:OE2	2.35	0.60
2:D2:75:THR:HG23	1:E2:108:GLY:HA2	1.84	0.60
1:M2:112:VAL:O	1:M2:115:MET:HB2	2.00	0.60
2:R2:130:ILE:HA	2:R2:133:MET:HE2	1.83	0.60
1:U2:62:ARG:HG2	1:U2:65:VAL:HG13	1.83	0.60
1:s2:93:THR:O	1:s2:97:VAL:HG22	2.02	0.60
1:u2:75:GLU:OE1	1:u2:75:GLU:N	2.35	0.60
4:y2:3:ARG:HG2	4:y2:59:GLY:HA3	1.82	0.60
2:L3:112:LEU:HD23	2:L3:160:LEU:HD21	1.84	0.60
1:S3:4:LEU:HD21	1:S3:26:ILE:HG23	1.83	0.60
5:k3:1146:THR:HG22	5:k3:1148:THR:H	1.67	0.60
1:G2:72:ALA:HA	1:G2:77:MET:HB3	1.83	0.60
6:G2:201:CYC:HMA3	6:G2:201:CYC:HB	1.67	0.60
2:T2:76:ARG:HB2	1:U2:110:ILE:HD11	1.84	0.60
1:a2:77:MET:HE2	1:a2:77:MET:N	2.17	0.60
1:a2:85:LEU:O	1:a2:133:MET:HE1	2.02	0.60
1:c2:27:LYS:HE3	2:d2:38:VAL:HG13	1.84	0.60
2:r2:28:LYS:O	2:r2:32:THR:HG23	2.02	0.60
2:F3:58:LYS:NZ	2:F3:135:GLU:OE2	2.32	0.60
1:C1:8:ILE:HD11	2:D1:94:TYR:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W2:18:LEU:HD11	1:W2:22:GLU:HG2	1.83	0.59
1:a2:6:LYS:NZ	1:a2:100:ASP:OD2	2.34	0.59
1:o2:50:ILE:HG23	1:o2:136:VAL:CG2	2.32	0.59
2:v2:58:LYS:O	2:v2:58:LYS:NZ	2.28	0.59
2:B3:84:ASP:OD2	2:B3:116:TYR:OH	2.19	0.59
2:J3:111:GLY:HA2	2:J3:114:GLU:OE2	2.02	0.59
1:S3:23:LEU:HD22	2:T3:38:VAL:HG13	1.83	0.59
2:V3:1:MET:HE3	2:V3:103:ILE:HD12	1.84	0.59
2:X3:144:ASP:N	2:X3:144:ASP:OD1	2.34	0.59
5:k3:854:LEU:HD22	5:k3:862:LEU:HD22	1.84	0.59
3:K1:93:THR:O	3:K1:97:VAL:HG23	2.02	0.59
1:S2:112:VAL:HA	1:S2:115:MET:HB2	1.84	0.59
2:f2:22:ALA:O	2:f2:26:LYS:HG2	2.01	0.59
1:g2:43:LEU:HD11	1:g2:137:ALA:HB1	1.84	0.59
1:i2:2:SER:O	1:i2:5:THR:OG1	2.20	0.59
1:i2:20:PRO:HG2	1:s2:101:VAL:HB	1.84	0.59
1:m2:87:TYR:O	1:m2:91:LEU:HG	2.02	0.59
2:n2:111:GLY:HA2	2:n2:114:GLU:OE1	2.02	0.59
1:o2:35:ARG:NH2	1:o2:144:ASP:OD2	2.35	0.59
2:r2:134:LYS:HE3	2:r2:150:SER:HA	1.84	0.59
2:v2:56:ALA:O	2:v2:61:ILE:HG12	2.03	0.59
2:F3:85:MET:O	2:F3:133:MET:HE1	2.02	0.59
2:T3:147:LYS:O	2:T3:151:ILE:HG23	2.02	0.59
2:g3:83:ARG:NH2	6:g3:201:CYC:O2A	2.34	0.59
5:j3:328:ILE:HB	5:j3:332:GLU:HB2	1.84	0.59
2:B1:71:MEN:HB2	6:k3:1201:CYC:OC	2.03	0.59
2:D1:122:PRO:HG2	6:z1:101:CYC:HMC1	1.83	0.59
2:F1:37:ARG:HB3	2:F1:96:MET:HE3	1.84	0.59
1:E1:25:ARG:HH22	1:c3:25:ARG:HH21	1.51	0.59
1:G2:85:LEU:HB3	1:G2:133:MET:CE	2.32	0.59
2:R2:85:MET:HG2	6:R2:201:CYC:HBC1	1.85	0.59
1:c2:89:LEU:O	1:c2:92:VAL:HG12	2.02	0.59
1:g2:24:ASP:OD1	1:g2:24:ASP:N	2.31	0.59
1:g2:105:GLU:HA	1:g2:109:ILE:CG1	2.31	0.59
2:l2:87:TYR:OH	5:k3:1085:GLY:HA3	2.02	0.59
6:y2:101:CYC:HB	6:y2:101:CYC:HMA1	1.66	0.59
1:A1:18:LEU:HB2	1:A1:23:LEU:CD1	2.33	0.59
1:C1:93:THR:O	1:C1:97:VAL:HG13	2.02	0.59
2:F1:52:ILE:HG13	2:F1:85:MET:HG3	1.83	0.59
2:J1:22:ALA:O	2:J1:26:LYS:HG2	2.02	0.59
3:L1:127:ILE:HD12	3:L1:160:MET:HG3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F2:147:LYS:O	2:F2:151:ILE:HG23	2.01	0.59
2:R2:147:LYS:O	2:R2:151:ILE:HG23	2.03	0.59
1:S2:82:LEU:HA	1:S2:85:LEU:HD23	1.83	0.59
1:k2:103:PRO:HA	5:k3:1143:LEU:CD2	2.32	0.59
2:p2:28:LYS:O	2:p2:32:THR:HG23	2.02	0.59
1:q2:115:MET:HG3	2:v2:78:TYR:CD1	2.38	0.59
1:A3:125:ALA:HB3	6:A3:201:CYC:CMC	2.32	0.59
2:B3:147:LYS:HD3	2:B3:148:GLU:H	1.65	0.59
2:D3:83:ARG:NH1	2:D3:84:ASP:OD1	2.35	0.59
2:F3:111:GLY:HA2	2:F3:114:GLU:OE2	2.02	0.59
1:I3:93:THR:O	1:I3:97:VAL:HG22	2.03	0.59
2:V3:131:GLN:O	2:V3:135:GLU:HG2	2.02	0.59
5:j3:74:ARG:HH21	5:j3:75:ILE:HG23	1.66	0.59
5:j3:502:GLY:O	5:j3:642:ARG:HD3	2.01	0.59
1:A1:20:PRO:HA	1:Y3:151:PHE:CE2	2.37	0.59
2:B1:35:ALA:O	2:B1:39:ARG:HG3	2.03	0.59
1:C1:156:LEU:O	1:C1:160:MET:HE3	2.03	0.59
2:V2:12:TYR:OH	2:V2:20:ASP:OD1	2.20	0.59
2:Z3:84:ASP:OD2	2:Z3:116:TYR:OH	2.18	0.59
1:c3:105:GLU:HA	1:c3:109:ILE:CG1	2.31	0.59
2:f3:147:LYS:O	2:f3:151:ILE:HG23	2.02	0.59
1:H1:4:LEU:HD23	1:H1:26:ILE:HD12	1.85	0.59
1:H1:116:TYR:CE2	1:H1:126:VAL:HG21	2.37	0.59
1:O2:4:LEU:HD21	1:O2:26:ILE:HG23	1.85	0.59
1:a2:37:LEU:HD23	1:a2:97:VAL:HG12	1.84	0.59
2:d2:48:ALA:H	1:m2:161:GLN:HE22	1.50	0.59
1:o2:68:PRO:HA	1:o2:73:TYR:CD2	2.37	0.59
1:q2:50:ILE:HG23	1:q2:136:VAL:CG2	2.33	0.59
2:H3:147:LYS:HD3	2:H3:148:GLU:H	1.68	0.59
1:O3:93:THR:O	1:O3:97:VAL:HG22	2.03	0.59
2:F1:55:ALA:HA	2:F1:132:ALA:HB1	1.85	0.59
2:I1:28:LYS:O	2:I1:32:THR:HG23	2.01	0.59
6:K1:201:CYC:HMA3	6:K1:201:CYC:HB	1.67	0.59
2:D2:151:ILE:HD12	5:k3:929:PRO:HD3	1.84	0.59
2:T2:28:LYS:O	2:T2:32:THR:HG23	2.02	0.59
1:U2:72:ALA:HA	1:U2:77:MET:HB3	1.83	0.59
1:U2:88:TYR:HA	1:U2:91:LEU:HD12	1.85	0.59
1:W2:26:ILE:HD11	2:X2:38:VAL:HG22	1.84	0.59
1:i2:36:ARG:NH1	1:i2:99:GLY:HA2	2.17	0.59
2:v2:40:ALA:HB3	2:v2:96:MET:HE1	1.85	0.59
2:H3:14:VAL:HG21	5:j3:552:VAL:HG11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O3:22:GLU:HA	1:O3:25:ARG:HG2	1.85	0.59
1:W3:77:MET:CE	6:W3:201:CYC:HAD1	2.32	0.59
2:b3:5:ILE:O	2:b3:9:ILE:HG22	2.03	0.59
5:k3:834:LYS:HB2	5:k3:900:LEU:HD23	1.85	0.59
6:F1:201:CYC:HC	6:F1:201:CYC:HMD3	1.68	0.59
2:G1:39:ARG:O	2:G1:43:VAL:HG23	2.03	0.59
1:I2:26:ILE:O	1:I2:30:VAL:HG22	2.02	0.59
1:M2:19:SER:N	1:M2:22:GLU:OE1	2.29	0.59
1:O2:109:ILE:HD11	1:O2:156:LEU:HD23	1.85	0.59
1:i2:64:ASP:HA	1:i2:67:SER:OG	2.02	0.59
1:E3:19:SER:N	1:E3:22:GLU:OE1	2.27	0.59
1:I3:68:PRO:HA	1:I3:73:TYR:CD2	2.37	0.59
1:c3:2:SER:O	1:c3:6:LYS:HD2	2.03	0.59
6:h3:201:CYC:HMD3	6:h3:201:CYC:HC	1.68	0.59
1:H1:35:ARG:HG2	1:H1:38:ARG:HH21	1.67	0.59
2:P2:22:ALA:O	2:P2:26:LYS:HG3	2.01	0.59
1:U2:62:ARG:HG3	1:U2:64:ASP:OD1	2.02	0.59
2:V2:147:LYS:O	2:V2:151:ILE:HG23	2.03	0.59
1:e2:46:ALA:HA	1:e2:49:ARG:HE	1.67	0.59
2:l2:51:ILE:CG2	2:l2:133:MET:HG3	2.33	0.59
1:o2:157:VAL:O	1:o2:161:GLN:NE2	2.36	0.59
2:v2:51:ILE:HG23	2:v2:136:VAL:HG21	1.85	0.59
1:G3:3:VAL:HG13	1:G3:25:ARG:CZ	2.32	0.59
2:J3:75:THR:OG1	1:K3:110:ILE:O	2.15	0.59
1:M3:114:GLU:OE1	1:M3:114:GLU:N	2.36	0.59
1:U3:105:GLU:HA	1:U3:109:ILE:HG12	1.85	0.59
1:W3:50:ILE:HG12	1:W3:136:VAL:HG12	1.84	0.59
2:b3:44:ILE:HD12	2:b3:96:MET:HE1	1.85	0.59
2:d3:5:ILE:O	2:d3:9:ILE:HG12	2.03	0.59
1:H1:57:GLN:HA	1:H1:60:GLN:HG2	1.84	0.59
2:J1:23:ALA:O	2:J1:27:LEU:HG	2.03	0.59
1:E2:6:LYS:HE2	1:E2:100:ASP:OD2	2.03	0.59
1:g2:95:GLY:HA3	1:g2:104:ILE:HD11	1.85	0.59
1:i2:104:ILE:HG22	1:i2:109:ILE:CD1	2.32	0.59
2:p2:84:ASP:OD2	2:p2:116:TYR:OH	2.19	0.59
2:D3:148:GLU:HA	2:D3:151:ILE:HD13	1.85	0.59
1:O3:97:VAL:HG21	2:P3:19:LEU:HD11	1.83	0.59
1:Y3:49:ARG:O	1:Y3:53:GLN:HG2	2.02	0.59
1:Y3:75:GLU:OE1	1:Y3:75:GLU:N	2.36	0.59
1:Y3:151:PHE:HA	1:Y3:154:ASP:OD2	2.03	0.59
1:c3:35:ARG:HH22	1:c3:144:ASP:HB2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:919:ILE:O	5:j3:920:ARG:HG2	2.03	0.59
5:k3:559:THR:HG23	5:k3:560:VAL:H	1.68	0.59
2:J1:13:ASP:HA	3:L1:90:ARG:HH12	1.68	0.58
3:K1:83:ARG:NH1	6:K1:201:CYC:O1A	2.33	0.58
3:K1:117:ARG:HD3	5:k3:239:SER:HA	1.84	0.58
2:D2:1:MET:HE3	2:D2:103:ILE:HD12	1.82	0.58
1:G2:50:ILE:HG12	1:G2:136:VAL:HG12	1.85	0.58
2:N2:114:GLU:OE2	2:N2:114:GLU:N	2.25	0.58
1:Q2:75:GLU:OE1	1:Q2:75:GLU:N	2.36	0.58
1:c2:5:THR:O	1:c2:9:VAL:HG23	2.02	0.58
1:m2:12:ASP:OD2	2:n2:107:ARG:NH1	2.36	0.58
1:m2:26:ILE:O	1:m2:30:VAL:HG22	2.03	0.58
1:s2:37:LEU:HD21	2:t2:27:LEU:HD13	1.84	0.58
1:s2:105:GLU:HA	1:s2:109:ILE:HG22	1.85	0.58
2:v2:40:ALA:HB2	2:v2:145:ALA:HB3	1.85	0.58
6:A3:201:CYC:HMA3	6:A3:201:CYC:HB	1.66	0.58
1:M3:94:TYR:OH	2:N3:17:LYS:O	2.20	0.58
1:e3:41:GLN:O	1:e3:45:GLU:HG2	2.03	0.58
5:j3:257:THR:O	2:h3:83:ARG:NH1	2.35	0.58
5:j3:288:LEU:HD22	5:j3:290:SER:CA	2.29	0.58
5:j3:1100:PRO:O	5:j3:1104:THR:HG23	2.02	0.58
5:k3:450:ARG:NH1	5:k3:452:VAL:O	2.33	0.58
5:k3:755:GLN:HB3	5:k3:879:ASP:CB	2.32	0.58
2:I1:122:PRO:HG2	6:M1:101:CYC:HMC3	1.85	0.58
4:M1:23:LEU:HD23	6:M1:101:CYC:HMA1	1.85	0.58
1:G2:75:GLU:OE1	1:G2:75:GLU:N	2.36	0.58
1:G2:105:GLU:HA	1:G2:109:ILE:CG1	2.33	0.58
2:P2:15:GLN:HB2	2:P2:17:LYS:HZ1	1.68	0.58
1:W2:5:THR:O	1:W2:9:VAL:HG13	2.03	0.58
2:X2:147:LYS:O	2:X2:151:ILE:HG23	2.03	0.58
1:Y2:104:ILE:HG22	1:Y2:109:ILE:CD1	2.33	0.58
1:a2:77:MET:HE2	1:a2:77:MET:H	1.67	0.58
1:g2:127:ALA:HB2	1:g2:160:MET:CE	2.33	0.58
2:p2:39:ARG:O	2:p2:43:VAL:HG13	2.02	0.58
1:q2:16:ARG:O	2:r2:94:TYR:OH	2.21	0.58
1:I3:85:LEU:O	1:I3:133:MET:HE1	2.03	0.58
2:J3:52:ILE:HD11	2:J3:86:ASP:HA	1.84	0.58
2:D1:147:LYS:O	2:D1:151:ILE:HG23	2.03	0.58
2:H2:147:LYS:O	2:H2:151:ILE:HG23	2.02	0.58
1:K2:20:PRO:HB3	1:U2:151:PHE:HZ	1.68	0.58
2:N2:40:ALA:HB3	2:N2:96:MET:HE1	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O2:83:ARG:NH1	6:O2:201:CYC:O1A	2.30	0.58
1:a2:94:TYR:OH	2:b2:17:LYS:O	2.16	0.58
1:c2:28:SER:HB3	1:m2:28:SER:HB2	1.84	0.58
1:m2:93:THR:O	1:m2:97:VAL:HG22	2.03	0.58
2:n2:83:ARG:HA	2:n2:86:ASP:OD2	2.03	0.58
1:C3:88:TYR:HA	1:C3:91:LEU:HD12	1.85	0.58
6:F3:201:CYC:HMA1	6:F3:201:CYC:NB	2.18	0.58
1:I3:4:LEU:HD12	1:I3:26:ILE:HD11	1.85	0.58
2:L3:17:LYS:HE3	2:L3:18:TYR:N	2.17	0.58
1:U3:93:THR:O	1:U3:97:VAL:HG22	2.02	0.58
1:c3:75:GLU:OE1	1:c3:75:GLU:N	2.35	0.58
5:k3:1100:PRO:O	5:k3:1104:THR:HG23	2.03	0.58
2:I1:5:ILE:HG12	2:I1:27:LEU:HD22	1.85	0.58
1:O2:134:LYS:O	1:O2:138:THR:HG23	2.02	0.58
1:S2:94:TYR:OH	2:T2:17:LYS:O	2.21	0.58
1:W2:89:LEU:HB2	1:W2:133:MET:CE	2.33	0.58
2:h2:46:SER:HB3	1:u2:154:ASP:OD1	2.02	0.58
4:x2:43:ARG:HD2	5:k3:1103:LEU:HD11	1.85	0.58
1:W3:105:GLU:CG	1:W3:109:ILE:HD11	2.33	0.58
1:e3:19:SER:O	1:e3:23:LEU:HD12	2.04	0.58
1:H1:89:LEU:HB2	1:H1:133:MET:CE	2.34	0.58
3:L1:85:LEU:CD1	6:L1:201:CYC:HBC1	2.34	0.58
6:I2:201:CYC:HMD1	6:I2:201:CYC:NC	2.18	0.58
1:O2:87:TYR:O	1:O2:91:LEU:HG	2.03	0.58
1:Q2:12:ASP:OD2	2:R2:107:ARG:NH1	2.36	0.58
2:T2:133:MET:O	2:T2:137:VAL:HG22	2.04	0.58
1:c2:50:ILE:HA	1:c2:136:VAL:HG11	1.85	0.58
2:j2:28:LYS:O	2:j2:32:THR:HG23	2.02	0.58
6:m2:201:CYC:HMA3	6:m2:201:CYC:HB	1.68	0.58
1:s2:26:ILE:O	1:s2:30:VAL:HG22	2.02	0.58
1:s2:127:ALA:HB2	1:s2:160:MET:HG2	1.85	0.58
1:Y3:72:ALA:HA	1:Y3:77:MET:HB3	1.85	0.58
5:j3:1003:GLN:HG2	5:j3:1112:PRO:HB2	1.86	0.58
6:j3:1202:CYC:HMA3	6:j3:1202:CYC:HB	1.68	0.58
6:j3:1204:CYC:HMA1	6:j3:1204:CYC:NB	2.18	0.58
2:G1:10:ASN:O	2:G1:14:VAL:HG23	2.04	0.58
1:H1:85:LEU:O	1:H1:133:MET:HE1	2.03	0.58
1:k2:72:ALA:HA	1:k2:77:MET:HB3	1.85	0.58
1:s2:34:GLU:OE2	1:s2:38:ARG:NH2	2.36	0.58
1:s2:130:VAL:HA	1:s2:133:MET:SD	2.43	0.58
1:C3:93:THR:O	1:C3:97:VAL:HG22	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D3:48:ALA:O	2:D3:52:ILE:HD12	2.04	0.58
6:L3:201:CYC:HMA1	6:L3:201:CYC:NB	2.19	0.58
1:Q3:105:GLU:CG	1:Q3:109:ILE:HD11	2.34	0.58
2:Z3:147:LYS:O	2:Z3:151:ILE:HG23	2.03	0.58
5:j3:549:LYS:HB2	5:j3:551:MET:HG3	1.84	0.58
1:A1:126:VAL:O	1:A1:130:VAL:HG23	2.04	0.58
2:B1:132:ALA:O	2:B1:136:VAL:HG22	2.04	0.58
3:L1:60:GLN:OE1	3:L1:60:GLN:N	2.35	0.58
1:A2:101:VAL:HA	1:A2:104:ILE:HD11	1.86	0.58
1:W2:144:ASP:OD1	1:W2:144:ASP:N	2.33	0.58
1:a2:26:ILE:O	1:a2:30:VAL:HG22	2.04	0.58
6:e2:201:CYC:HMA1	6:e2:201:CYC:NB	2.17	0.58
1:k2:50:ILE:HA	1:k2:136:VAL:CG1	2.33	0.58
1:s2:136:VAL:O	1:s2:139:SER:OG	2.18	0.58
1:E3:105:GLU:HA	1:E3:109:ILE:HB	1.86	0.58
2:F3:147:LYS:O	2:F3:151:ILE:HG23	2.03	0.58
4:z3:4:TYR:HB2	4:z3:58:THR:OG1	2.03	0.58
5:k3:526:MET:HA	5:k3:526:MET:HE2	1.86	0.58
1:A1:22:GLU:O	1:A1:25:ARG:HG2	2.04	0.58
3:K1:157:ILE:HD13	2:g3:46:SER:HB2	1.86	0.58
4:z1:22:GLU:O	4:z1:26:THR:OG1	2.20	0.58
1:S2:83:ARG:NH2	1:S2:84:ASP:OD1	2.27	0.58
1:c2:138:THR:OG1	1:c2:146:ALA:HB1	2.03	0.58
1:m2:89:LEU:O	1:m2:93:THR:HG23	2.03	0.58
1:q2:94:TYR:CD2	2:r2:9:ILE:HG23	2.39	0.58
2:t2:51:ILE:HG22	2:t2:133:MET:HG3	1.86	0.58
4:w2:21:ARG:HH21	4:w2:23:LEU:HD23	1.68	0.58
2:D3:39:ARG:NH1	2:D3:39:ARG:HA	2.19	0.58
1:E3:32:SER:O	1:E3:36:ARG:HG3	2.02	0.58
1:E3:105:GLU:O	1:E3:110:ILE:HG13	2.04	0.58
6:I3:201:CYC:HMD1	6:I3:201:CYC:NC	2.19	0.58
2:J3:49:THR:HG21	1:W3:161:GLN:HG2	1.86	0.58
1:K3:105:GLU:O	1:K3:110:ILE:HG13	2.04	0.58
1:O3:71:ASN:OD1	1:O3:121:THR:HG22	2.03	0.58
2:Z3:75:THR:HG22	1:a3:115:MET:CE	2.34	0.58
2:f3:3:ASP:OD1	2:f3:5:ILE:HG13	2.02	0.58
5:j3:911:LEU:H	5:j3:911:LEU:HD23	1.69	0.58
5:k3:637:ARG:HB3	5:k3:684:TYR:HD1	1.69	0.58
2:F1:17:LYS:O	3:K1:94:TYR:OH	2.21	0.58
2:H2:114:GLU:OE1	5:j3:914:PRO:HG2	2.03	0.58
1:K2:105:GLU:HA	1:K2:109:ILE:HG12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M2:89:LEU:O	1:M2:93:THR:HG23	2.03	0.58
1:O2:23:LEU:O	1:O2:27:LYS:HG3	2.04	0.58
2:Z2:112:LEU:HD23	2:Z2:160:LEU:HD21	1.84	0.58
2:d2:114:GLU:OE2	4:x2:54:VAL:N	2.36	0.58
1:i2:92:VAL:HG23	1:i2:156:LEU:HD12	1.86	0.58
6:q2:201:CYC:HMA3	6:q2:201:CYC:HB	1.68	0.58
1:s2:2:SER:OG	2:t2:3:ASP:OD2	2.22	0.58
6:s2:201:CYC:HMA3	6:s2:201:CYC:HB	1.68	0.58
1:C3:68:PRO:HA	1:C3:73:TYR:CD2	2.38	0.58
1:C3:112:VAL:O	1:C3:115:MET:HB3	2.03	0.58
1:K3:89:LEU:O	1:K3:93:THR:HG23	2.04	0.58
2:N3:85:MET:HG2	6:N3:201:CYC:HBC1	1.86	0.58
5:j3:36:ASN:HB2	5:j3:39:GLU:HB2	1.85	0.58
5:k3:321:SER:O	5:k3:325:ASN:HB2	2.03	0.58
5:k3:776:PHE:HA	5:k3:819:PHE:HE2	1.69	0.58
2:J1:122:PRO:O	2:J1:126:THR:HG23	2.03	0.58
2:F2:12:TYR:CZ	2:F2:23:ALA:HB2	2.39	0.58
1:G2:64:ASP:N	1:G2:64:ASP:OD1	2.36	0.58
2:P2:51:ILE:HG23	2:P2:136:VAL:CG2	2.33	0.58
1:W2:72:ALA:HA	1:W2:77:MET:HB3	1.85	0.58
1:m2:97:VAL:HG21	2:n2:19:LEU:HD11	1.85	0.58
1:o2:97:VAL:CG2	2:p2:27:LEU:HD13	2.34	0.58
2:F3:15:GLN:HG3	2:F3:17:LYS:HB2	1.85	0.58
6:L3:201:CYC:HMA3	5:j3:591:ILE:HG23	1.86	0.58
2:N3:147:LYS:O	2:N3:151:ILE:HG23	2.03	0.58
2:X3:65:LEU:HG	2:X3:72:MET:HB2	1.86	0.58
1:e3:93:THR:O	1:e3:97:VAL:HG22	2.04	0.58
5:j3:736:GLU:HA	5:j3:739:VAL:HG23	1.84	0.58
5:k3:282:GLY:O	5:k3:284:PRO:HD2	2.04	0.58
5:k3:660:VAL:HG12	5:k3:664:MET:HE3	1.86	0.58
5:k3:1105:ILE:HG13	5:k3:1115:ARG:NH1	2.18	0.58
6:h3:201:CYC:HB	6:h3:201:CYC:HMA1	1.69	0.58
2:D1:94:TYR:O	2:D1:97:LEU:HG	2.04	0.57
1:C2:26:ILE:O	1:C2:30:VAL:HG22	2.03	0.57
1:K2:2:SER:OG	2:L2:3:ASP:OD2	2.22	0.57
1:M2:76:LYS:HG3	1:M2:77:MET:CE	2.34	0.57
1:Q2:134:LYS:O	1:Q2:138:THR:HG23	2.03	0.57
2:Z2:109:LEU:HD22	2:Z2:159:GLY:HA3	1.86	0.57
1:a2:2:SER:OG	2:b2:3:ASP:OD2	2.21	0.57
1:k2:128:GLU:HA	1:k2:131:ARG:HH12	1.68	0.57
1:m2:27:LYS:HZ1	2:n2:35:ALA:HA	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u2:5:THR:HG23	2:v2:1:MET:HE3	1.86	0.57
1:E3:154:ASP:HB2	2:P3:46:SER:CB	2.33	0.57
2:F3:61:ILE:HA	2:F3:66:THR:HG21	1.86	0.57
1:G3:62:ARG:O	1:G3:65:VAL:HG22	2.04	0.57
2:L3:147:LYS:O	2:L3:151:ILE:HG23	2.04	0.57
1:Y3:105:GLU:HA	1:Y3:109:ILE:HG12	1.85	0.57
1:a3:24:ASP:O	1:a3:26:ILE:N	2.37	0.57
1:a3:93:THR:O	1:a3:97:VAL:HG22	2.03	0.57
5:k3:282:GLY:O	5:k3:283:ARG:HB3	2.02	0.57
1:A1:46:ALA:O	1:A1:50:ILE:HG13	2.04	0.57
1:C1:105:GLU:HA	1:C1:109:ILE:HG13	1.87	0.57
4:z1:3:ARG:HH12	4:z1:67:VAL:HG22	1.68	0.57
1:E2:18:LEU:HD22	2:F2:97:LEU:HD13	1.85	0.57
6:E2:201:CYC:HMD1	6:E2:201:CYC:NC	2.18	0.57
1:G2:115:MET:CE	2:L2:75:THR:HG22	2.34	0.57
1:S2:50:ILE:HA	1:S2:136:VAL:CG1	2.33	0.57
1:Y2:115:MET:SD	2:d2:75:THR:HA	2.44	0.57
1:g2:25:ARG:HE	1:u2:25:ARG:HD3	1.69	0.57
2:l2:109:LEU:HD22	2:l2:159:GLY:HA3	1.87	0.57
2:n2:66:THR:HG21	6:o2:201:CYC:CGA	2.34	0.57
2:p2:133:MET:HA	2:p2:136:VAL:HG22	1.86	0.57
1:q2:115:MET:HE1	2:v2:75:THR:HG22	1.86	0.57
1:A3:29:PHE:O	1:A3:36:ARG:NH2	2.37	0.57
2:B3:64:ASP:OD1	2:B3:67:ARG:NH1	2.37	0.57
1:G3:105:GLU:HA	1:G3:109:ILE:CG1	2.35	0.57
2:T3:75:THR:HG22	1:U3:115:MET:HE2	1.86	0.57
1:Y3:6:LYS:NZ	1:Y3:100:ASP:OD2	2.37	0.57
1:a3:19:SER:O	1:a3:23:LEU:HD12	2.04	0.57
2:b3:25:ASP:O	2:b3:28:LYS:HB2	2.04	0.57
2:f3:115:THR:HG23	5:j3:449:ARG:HD3	1.84	0.57
5:j3:480:GLU:OE1	5:j3:689:GLY:HA3	2.04	0.57
5:k3:565:GLN:O	5:k3:569:THR:HG23	2.04	0.57
5:k3:1078:SER:HA	6:k3:1204:CYC:CGA	2.34	0.57
2:h3:64:ASP:HA	2:h3:67:ARG:NH1	2.19	0.57
1:A2:13:ALA:HB2	5:k3:816:ARG:HD2	1.85	0.57
6:H2:201:CYC:HB	6:H2:201:CYC:HMA1	1.69	0.57
2:P2:85:MET:CE	2:P2:133:MET:HE2	2.33	0.57
2:T2:78:TYR:O	2:T2:82:ILE:HG23	2.05	0.57
1:U2:26:ILE:O	1:U2:30:VAL:HG22	2.03	0.57
2:V2:78:TYR:O	2:V2:82:ILE:HG23	2.04	0.57
1:e2:95:GLY:HA3	1:e2:104:ILE:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l2:109:LEU:O	2:l2:113:LYS:NZ	2.36	0.57
1:q2:115:MET:CE	2:v2:75:THR:HG22	2.34	0.57
1:s2:48:GLU:O	1:s2:52:LYS:HG3	2.05	0.57
4:w2:24:GLN:HB2	5:j3:879:ASP:OD2	2.03	0.57
4:y2:40:GLU:O	4:y2:44:ILE:HG13	2.04	0.57
1:A3:53:GLN:O	1:A3:57:GLN:HG3	2.04	0.57
2:D3:114:GLU:HA	2:D3:117:ASN:ND2	2.19	0.57
1:E3:154:ASP:HB2	2:P3:46:SER:HB3	1.86	0.57
2:V3:1:MET:HE2	2:V3:103:ILE:HB	1.86	0.57
1:Y3:118:SER:HA	2:b3:53:LYS:HZ2	1.70	0.57
2:b3:3:ASP:HB2	2:b3:98:ALA:O	2.03	0.57
2:d3:114:GLU:OE2	2:d3:114:GLU:N	2.32	0.57
2:d3:127:VAL:HG13	2:d3:157:SER:HB3	1.87	0.57
5:j3:163:PHE:O	5:j3:167:THR:HG23	2.03	0.57
5:j3:322:LYS:HD2	5:j3:336:ARG:HH12	1.69	0.57
1:A1:91:LEU:HD13	1:A1:104:ILE:HG23	1.87	0.57
1:I2:105:GLU:HA	1:I2:109:ILE:HB	1.86	0.57
2:Z2:78:TYR:HE2	1:a2:115:MET:HA	1.69	0.57
1:c2:28:SER:HB3	1:m2:28:SER:CB	2.33	0.57
1:c2:154:ASP:OD2	2:n2:46:SER:HB2	2.04	0.57
1:m2:106:GLU:HA	1:m2:110:ILE:HD11	1.85	0.57
2:p2:25:ASP:O	2:p2:28:LYS:HG2	2.05	0.57
1:C3:85:LEU:HB3	1:C3:133:MET:CE	2.34	0.57
2:J3:113:LYS:O	2:J3:117:ASN:ND2	2.37	0.57
1:U3:19:SER:N	1:U3:22:GLU:OE2	2.29	0.57
1:U3:134:LYS:HE2	1:U3:150:GLY:HA2	1.85	0.57
2:V3:147:LYS:O	2:V3:151:ILE:HG23	2.04	0.57
2:X3:15:GLN:NE2	2:X3:17:LYS:HE2	2.19	0.57
1:e3:104:ILE:HD11	1:e3:156:LEU:CD2	2.34	0.57
2:g3:103:ILE:HD11	2:g3:107:ARG:HD2	1.86	0.57
5:k3:736:GLU:HA	5:k3:739:VAL:HG23	1.84	0.57
1:A1:20:PRO:HA	1:Y3:151:PHE:HE2	1.70	0.57
2:I1:57:ALA:HA	2:I1:61:ILE:CD1	2.33	0.57
3:K1:95:SER:HB3	3:K1:104:VAL:HG23	1.86	0.57
2:B2:147:LYS:O	2:B2:151:ILE:HG23	2.05	0.57
1:G2:68:PRO:HG2	5:k3:1152:TYR:CD1	2.39	0.57
2:H2:132:ALA:O	2:H2:136:VAL:HG23	2.05	0.57
1:K2:21:GLY:O	1:U2:25:ARG:NH2	2.36	0.57
1:M2:138:THR:CG2	1:M2:146:ALA:HB1	2.34	0.57
2:v2:132:ALA:O	2:v2:136:VAL:HG13	2.04	0.57
1:I3:19:SER:OG	1:I3:22:GLU:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:112:VAL:O	1:I3:115:MET:HB3	2.05	0.57
2:N3:77:ARG:HG3	6:N3:201:CYC:HMD1	1.86	0.57
2:X3:147:LYS:O	2:X3:151:ILE:HG23	2.05	0.57
2:b3:147:LYS:O	2:b3:151:ILE:HG23	2.03	0.57
5:j3:565:GLN:O	5:j3:569:THR:HG23	2.04	0.57
5:k3:74:ARG:NE	5:k3:205:GLU:HG3	2.20	0.57
5:k3:574:GLN:HG2	5:k3:680:PRO:O	2.05	0.57
2:D1:4:ALA:O	2:D1:8:VAL:HG12	2.05	0.57
2:F1:15:GLN:HE21	2:F1:17:LYS:HB2	1.68	0.57
1:E1:19:SER:O	1:E1:23:LEU:HD12	2.04	0.57
1:O2:37:LEU:HD23	1:O2:97:VAL:HG12	1.86	0.57
1:O2:109:ILE:HD12	1:O2:159:ALA:HB3	1.87	0.57
1:Y2:112:VAL:HA	1:Y2:115:MET:CG	2.33	0.57
1:a2:105:GLU:O	1:a2:110:ILE:HG13	2.04	0.57
1:k2:76:LYS:HG3	1:k2:77:MET:CE	2.35	0.57
2:J3:147:LYS:O	2:J3:151:ILE:HG23	2.03	0.57
5:j3:948:SER:O	5:j3:948:SER:OG	2.19	0.57
2:D1:78:TYR:O	2:D1:82:ILE:HG23	2.04	0.57
2:F1:13:ASP:OD1	3:K1:90:ARG:NH2	2.30	0.57
1:H1:101:VAL:HG21	1:H1:155:TYR:CE2	2.40	0.57
3:K1:113:PHE:HB3	3:K1:117:ARG:NH2	2.20	0.57
2:H2:10:ASN:O	2:H2:14:VAL:HG13	2.05	0.57
1:O2:37:LEU:HD21	2:P2:27:LEU:HD13	1.87	0.57
1:Q2:2:SER:OG	2:R2:3:ASP:OD2	2.22	0.57
1:U2:76:LYS:HE2	1:U2:76:LYS:N	2.20	0.57
1:g2:26:ILE:O	1:g2:30:VAL:HG22	2.04	0.57
2:p2:40:ALA:HB2	2:p2:145:ALA:HB3	1.87	0.57
2:p2:60:LEU:HD13	2:p2:72:MET:HE1	1.85	0.57
1:u2:97:VAL:HG11	2:v2:19:LEU:CD1	2.35	0.57
2:v2:28:LYS:O	2:v2:32:THR:HG23	2.05	0.57
1:E3:89:LEU:O	1:E3:93:THR:HG23	2.05	0.57
2:F3:1:MET:HE2	2:F3:103:ILE:HD12	1.86	0.57
1:I3:16:ARG:O	2:J3:94:TYR:OH	2.23	0.57
1:c3:23:LEU:HD22	2:d3:38:VAL:HG13	1.86	0.57
2:f3:50:THR:HA	2:f3:53:LYS:HB2	1.86	0.57
5:j3:776:PHE:HE2	5:j3:809:LEU:HD22	1.68	0.57
1:A1:18:LEU:HB2	1:A1:23:LEU:HD12	1.86	0.57
2:I1:66:THR:HG22	2:I1:72:MET:SD	2.45	0.57
2:I1:132:ALA:O	2:I1:136:VAL:HG23	2.05	0.57
1:G2:39:ILE:HG12	1:G2:145:ASP:HB2	1.87	0.57
1:K2:41:GLN:O	1:K2:45:GLU:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N2:28:LYS:O	2:N2:32:THR:HG23	2.04	0.57
1:S2:138:THR:CG2	1:S2:146:ALA:HB1	2.34	0.57
2:b2:28:LYS:O	2:b2:32:THR:HG23	2.05	0.57
2:d2:122:PRO:HG2	6:x2:101:CYC:HMC2	1.85	0.57
1:i2:122:PRO:HB2	1:i2:125:ALA:HB3	1.86	0.57
1:o2:105:GLU:HA	1:o2:109:ILE:HG13	1.87	0.57
2:r2:65:LEU:HB3	2:r2:72:MET:HB3	1.86	0.57
2:r2:76:ARG:HB2	1:s2:110:ILE:HG13	1.87	0.57
1:A3:121:THR:CG2	6:A3:201:CYC:HMC3	2.35	0.57
1:E3:4:LEU:H	1:E3:4:LEU:HD12	1.70	0.57
1:G3:138:THR:CG2	1:G3:146:ALA:HB1	2.35	0.57
1:I3:50:ILE:HA	1:I3:136:VAL:HG11	1.87	0.57
1:K3:134:LYS:O	1:K3:138:THR:HG22	2.04	0.57
1:M3:32:SER:O	1:M3:36:ARG:HG3	2.04	0.57
2:T3:65:LEU:HB3	2:T3:72:MET:HE3	1.86	0.57
2:X3:71:MEN:OD1	6:X3:201:CYC:HMD2	2.05	0.57
1:a3:5:THR:HA	2:g3:1:MET:HE1	1.87	0.57
1:a3:48:GLU:OE1	1:a3:48:GLU:N	2.30	0.57
5:k3:911:LEU:HD23	5:k3:911:LEU:H	1.69	0.57
2:F1:78:TYR:O	2:F1:82:ILE:HG23	2.05	0.57
2:J1:12:TYR:CZ	2:J1:23:ALA:HB2	2.39	0.57
2:J1:127:VAL:O	2:J1:131:GLN:HG3	2.04	0.57
2:T2:57:ALA:HA	2:T2:61:ILE:HD11	1.87	0.57
2:f2:57:ALA:HA	2:f2:61:ILE:HD11	1.86	0.57
1:k2:54:ALA:HA	1:k2:132:ALA:HB1	1.86	0.57
1:k2:92:VAL:HA	1:k2:104:ILE:HD11	1.87	0.57
1:q2:107:ILE:HD11	5:j3:1143:LEU:HB3	1.85	0.57
1:G3:54:ALA:HA	1:G3:132:ALA:HB1	1.87	0.57
5:j3:187:ARG:CD	5:j3:237:ASP:HA	2.35	0.57
1:A1:110:ILE:HD11	2:F1:76:ARG:HE	1.68	0.57
1:H1:141:LEU:HD12	1:H1:142:SER:H	1.70	0.57
3:L1:102:GLU:OE2	3:L1:106:ARG:HD3	2.05	0.57
2:L2:147:LYS:O	2:L2:151:ILE:HG23	2.04	0.57
1:g2:68:PRO:HA	1:g2:73:TYR:CD2	2.40	0.57
1:i2:110:ILE:HD12	1:i2:110:ILE:O	2.04	0.57
1:k2:2:SER:N	1:k2:102:THR:HG1	2.03	0.57
2:l2:12:TYR:CZ	2:l2:23:ALA:HB2	2.39	0.57
1:m2:134:LYS:O	1:m2:138:THR:HG23	2.03	0.57
2:r2:78:TYR:O	2:r2:82:ILE:HG23	2.05	0.57
1:K3:95:GLY:HA3	1:K3:104:ILE:HD11	1.87	0.57
1:M3:110:ILE:O	2:R3:75:THR:OG1	2.15	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R3:147:LYS:O	2:R3:151:ILE:HG23	2.05	0.57
1:S3:32:SER:O	1:S3:36:ARG:HG3	2.05	0.57
1:Y3:138:THR:OG1	1:Y3:146:ALA:HB1	2.05	0.57
2:b3:50:THR:HA	2:b3:53:LYS:HB2	1.87	0.57
2:g3:3:ASP:HB3	2:g3:98:ALA:HB1	1.87	0.57
5:k3:71:ALA:O	5:k3:75:ILE:HG12	2.03	0.57
5:k3:539:LYS:HB2	5:k3:678:VAL:HG22	1.85	0.57
2:B1:91:TYR:HD1	2:B1:103:ILE:HD11	1.69	0.56
1:H1:38:ARG:HA	1:H1:41:GLN:NE2	2.20	0.56
6:L1:201:CYC:HMD1	6:L1:201:CYC:NC	2.18	0.56
2:B2:24:LEU:HA	2:B2:27:LEU:HD11	1.87	0.56
2:H2:53:LYS:HZ3	1:I2:120:GLN:HG3	1.70	0.56
1:K2:25:ARG:HB3	1:U2:25:ARG:CZ	2.35	0.56
2:L2:12:TYR:CZ	2:L2:23:ALA:HB2	2.39	0.56
1:M2:115:MET:HE1	2:R2:78:TYR:CG	2.40	0.56
1:O2:5:THR:HG23	2:P2:1:MET:SD	2.45	0.56
1:S2:47:ARG:HG2	1:S2:48:GLU:OE2	2.05	0.56
2:T2:88:PHE:CD2	2:T2:130:ILE:HD11	2.40	0.56
1:U2:144:ASP:OD1	1:U2:144:ASP:N	2.37	0.56
2:f2:83:ARG:NH1	5:j3:1023:SER:OG	2.38	0.56
2:h2:2:GLN:OE1	2:h2:7:ALA:HB2	2.04	0.56
1:o2:37:LEU:HD13	2:p2:24:LEU:HB2	1.87	0.56
2:p2:89:LEU:HD23	2:p2:153:PHE:HZ	1.69	0.56
1:A3:54:ALA:HA	1:A3:132:ALA:HB1	1.87	0.56
1:A3:62:ARG:O	1:A3:65:VAL:HG22	2.04	0.56
6:M3:201:CYC:HMD1	6:M3:201:CYC:NC	2.18	0.56
1:Q3:105:GLU:HG3	1:Q3:109:ILE:HD11	1.86	0.56
1:a3:8:ILE:HD11	2:g3:97:LEU:HB3	1.86	0.56
2:d3:75:THR:HG22	1:e3:115:MET:CE	2.35	0.56
5:j3:922:LYS:NZ	5:k3:737:MET:HE1	2.20	0.56
5:j3:1066:PHE:O	5:j3:1067:LEU:HD23	2.04	0.56
5:j3:1069:ARG:NE	5:j3:1101:GLU:OE2	2.34	0.56
5:k3:1060:GLU:HB2	5:k3:1071:PRO:HD3	1.86	0.56
5:k3:1066:PHE:O	5:k3:1067:LEU:HD23	2.04	0.56
2:F1:12:TYR:CZ	2:F1:23:ALA:HB2	2.40	0.56
1:H1:93:THR:O	1:H1:97:VAL:HG13	2.04	0.56
3:K1:20:VAL:HG13	1:a3:151:PHE:CE1	2.40	0.56
2:P2:147:LYS:O	2:P2:151:ILE:HG23	2.05	0.56
2:X2:141:VAL:HG21	2:X2:145:ALA:HB3	1.87	0.56
2:p2:122:PRO:HG2	6:p2:201:CYC:HMC1	1.87	0.56
1:s2:82:LEU:HD23	1:s2:85:LEU:HD12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H3:132:ALA:O	2:H3:136:VAL:HG23	2.05	0.56
5:j3:335:ARG:NH2	5:j3:407:ASP:OD1	2.38	0.56
5:k3:77:VAL:HG22	5:k3:141:GLU:HB3	1.87	0.56
5:k3:480:GLU:OE1	5:k3:689:GLY:HA3	2.05	0.56
5:k3:1069:ARG:HD3	5:k3:1115:ARG:NH2	2.19	0.56
1:A1:32:SER:HB2	1:A1:35:ARG:NH1	2.20	0.56
2:B1:113:LYS:NZ	2:B1:159:GLY:O	2.27	0.56
1:C1:22:GLU:O	1:C1:25:ARG:HG2	2.05	0.56
2:D1:83:ARG:NH1	4:z1:22:GLU:OE2	2.38	0.56
1:E1:126:VAL:O	1:E1:130:VAL:HG23	2.05	0.56
1:H1:39:ILE:CG2	1:H1:96:ILE:HG21	2.35	0.56
1:H1:101:VAL:HG21	1:H1:155:TYR:HE2	1.69	0.56
2:J1:64:ASP:HA	2:J1:67:ARG:HE	1.70	0.56
2:J1:78:TYR:O	2:J1:82:ILE:HG23	2.04	0.56
2:B2:23:ALA:O	2:B2:27:LEU:HG	2.05	0.56
1:C2:132:ALA:O	1:C2:136:VAL:HG23	2.05	0.56
1:E2:126:VAL:HG22	6:E2:201:CYC:H3C	1.87	0.56
2:H2:23:ALA:O	2:H2:27:LEU:HG	2.05	0.56
2:N2:12:TYR:OH	2:N2:20:ASP:OD1	2.20	0.56
2:P2:51:ILE:HG23	2:P2:136:VAL:HG21	1.87	0.56
2:f2:147:LYS:O	2:f2:151:ILE:HG23	2.06	0.56
1:g2:37:LEU:HD23	1:g2:97:VAL:HG12	1.87	0.56
2:h2:11:ASN:O	2:h2:14:VAL:HG12	2.05	0.56
2:h2:107:ARG:NH1	2:h2:107:ARG:HA	2.20	0.56
2:l2:147:LYS:O	2:l2:151:ILE:HG23	2.06	0.56
1:m2:112:VAL:HA	1:m2:115:MET:HB2	1.88	0.56
1:q2:122:PRO:O	1:q2:126:VAL:HG23	2.04	0.56
1:q2:133:MET:HA	1:q2:136:VAL:HG22	1.85	0.56
2:B3:107:ARG:HH21	4:z3:21:ARG:HD3	1.70	0.56
1:K3:37:LEU:HD23	1:K3:97:VAL:HG22	1.87	0.56
1:M3:87:TYR:O	1:M3:91:LEU:HG	2.05	0.56
2:P3:147:LYS:O	2:P3:151:ILE:HG23	2.06	0.56
1:S3:34:GLU:N	1:S3:34:GLU:OE2	2.38	0.56
1:U3:26:ILE:O	1:U3:30:VAL:HG22	2.05	0.56
1:a3:100:ASP:OD1	1:a3:101:VAL:N	2.39	0.56
6:g3:201:CYC:HB	6:g3:201:CYC:HMA1	1.71	0.56
4:z3:42:GLN:O	4:z3:46:LYS:HG3	2.06	0.56
5:j3:72:ALA:CB	5:j3:82:MET:HE1	2.36	0.56
5:j3:426:LEU:CD1	6:h3:201:CYC:HBA2	2.36	0.56
5:j3:540:LEU:HD21	5:j3:544:VAL:HG11	1.87	0.56
5:k3:86:GLU:HA	5:k3:89:LYS:HE2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k3:1062:LEU:HD21	5:k3:1096:ILE:HG12	1.86	0.56
1:A1:32:SER:O	1:A1:36:ARG:HG3	2.06	0.56
2:G1:56:ALA:HA	2:G1:60:LEU:HB2	1.87	0.56
2:P2:78:TYR:O	2:P2:82:ILE:HG23	2.05	0.56
1:W2:83:ARG:NH2	1:W2:84:ASP:OD1	2.28	0.56
1:c2:29:PHE:CE1	1:c2:99:GLY:HA3	2.40	0.56
1:e2:8:ILE:CD1	2:f2:98:ALA:HB2	2.36	0.56
1:g2:38:ARG:O	1:g2:41:GLN:HG3	2.06	0.56
1:g2:94:TYR:OH	2:h2:17:LYS:O	2.19	0.56
1:i2:138:THR:OG1	1:i2:146:ALA:HB1	2.05	0.56
2:r2:145:ALA:HB1	2:r2:148:GLU:OE2	2.05	0.56
2:N3:131:GLN:O	2:N3:135:GLU:HG2	2.05	0.56
1:Q3:105:GLU:HA	1:Q3:109:ILE:CG1	2.35	0.56
2:V3:75:THR:HG22	1:W3:115:MET:CE	2.35	0.56
1:c3:74:GLY:O	1:c3:78:THR:HG23	2.05	0.56
1:e3:37:LEU:HD22	2:h3:24:LEU:HD22	1.88	0.56
2:f3:112:LEU:CD2	2:f3:160:LEU:HD21	2.36	0.56
4:z3:60:VAL:CG1	4:z3:63:ALA:HB2	2.35	0.56
5:j3:983:ARG:O	5:j3:984:ILE:HG13	2.06	0.56
5:k3:197:SER:O	5:k3:201:VAL:HG13	2.06	0.56
2:h3:84:ASP:OD2	6:h3:201:CYC:HHD	2.05	0.56
1:C1:101:VAL:O	1:C1:105:GLU:HG3	2.05	0.56
2:D1:24:LEU:HB3	2:D1:28:LYS:NZ	2.21	0.56
2:G1:60:LEU:HD13	2:G1:72:MET:CE	2.35	0.56
2:G1:82:ILE:HD11	1:H1:114:GLU:HB3	1.87	0.56
2:B2:105:ASP:OD2	2:B2:155:TYR:OH	2.14	0.56
1:G2:44:THR:HG22	2:H2:18:TYR:HD2	1.70	0.56
6:M2:201:CYC:HMA3	6:M2:201:CYC:HB	1.71	0.56
1:Y2:109:ILE:HG21	1:Y2:159:ALA:HB1	1.87	0.56
1:a2:38:ARG:O	1:a2:41:GLN:HG3	2.05	0.56
1:i2:97:VAL:CG2	2:j2:9:ILE:HD11	2.36	0.56
2:n2:109:LEU:HD22	2:n2:159:GLY:HA3	1.87	0.56
1:s2:158:GLY:O	1:s2:161:GLN:HB2	2.06	0.56
2:D3:111:GLY:HA2	2:D3:114:GLU:OE2	2.05	0.56
1:K3:75:GLU:OE1	1:K3:75:GLU:N	2.38	0.56
2:L3:57:ALA:HA	2:L3:61:ILE:HD11	1.86	0.56
2:L3:132:ALA:O	2:L3:136:VAL:HG23	2.06	0.56
1:W3:105:GLU:HG3	1:W3:109:ILE:HD11	1.86	0.56
5:j3:203:LEU:HB3	5:j3:231:ILE:HD11	1.88	0.56
5:j3:331:ARG:HH21	5:j3:407:ASP:HA	1.71	0.56
5:j3:951:MET:HE2	5:j3:951:MET:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:1016:LEU:HD22	5:j3:1044:ASN:HD21	1.69	0.56
5:k3:387:VAL:O	5:k3:388:ARG:HG2	2.06	0.56
2:h3:51:ILE:HG23	2:h3:136:VAL:CG1	2.35	0.56
1:C1:38:ARG:HA	1:C1:41:GLN:OE1	2.05	0.56
1:H1:105:GLU:HA	1:H1:109:ILE:HG13	1.87	0.56
4:M1:8:THR:OG1	4:M1:29:THR:OG1	2.05	0.56
4:M1:11:ILE:HD11	4:M1:44:ILE:HG12	1.87	0.56
1:Q2:53:GLN:OE1	1:Q2:53:GLN:N	2.39	0.56
2:R2:83:ARG:HD2	4:z2:38:PHE:CE2	2.41	0.56
2:j2:147:LYS:O	2:j2:151:ILE:HG23	2.04	0.56
2:n2:81:CYS:O	2:n2:85:MET:HG2	2.05	0.56
1:q2:105:GLU:HA	1:q2:109:ILE:CG2	2.35	0.56
1:q2:114:GLU:OE2	5:j3:1013:PRO:HB2	2.06	0.56
2:F3:5:ILE:HG12	2:F3:27:LEU:HD22	1.88	0.56
1:K3:32:SER:O	1:K3:36:ARG:HG3	2.06	0.56
1:O3:105:GLU:CG	1:O3:109:ILE:HD11	2.36	0.56
1:U3:106:GLU:HA	1:U3:110:ILE:HD11	1.86	0.56
6:e3:201:CYC:HMD1	6:e3:201:CYC:NC	2.18	0.56
5:k3:69:SER:HA	5:k3:82:MET:SD	2.45	0.56
5:k3:163:PHE:O	5:k3:167:THR:HG23	2.04	0.56
2:h3:48:ALA:O	2:h3:52:ILE:HG12	2.05	0.56
2:B1:111:GLY:O	2:B1:115:THR:OG1	2.23	0.56
1:C1:91:LEU:HD21	1:C1:107:ILE:HG22	1.87	0.56
1:E1:110:ILE:HG22	5:j3:393:MET:SD	2.46	0.56
2:G1:79:ALA:HA	2:G1:82:ILE:CD1	2.36	0.56
1:H1:8:ILE:HG12	2:I1:97:LEU:HD11	1.86	0.56
2:J1:52:ILE:HG23	2:J1:85:MET:CG	2.36	0.56
2:N2:78:TYR:CG	1:O2:115:MET:HE1	2.41	0.56
2:R2:110:ASN:N	2:R2:110:ASN:OD1	2.38	0.56
2:X2:64:ASP:OD1	2:X2:67:ARG:NE	2.34	0.56
2:Z2:147:LYS:O	2:Z2:151:ILE:HG23	2.06	0.56
2:v2:77:ARG:HG3	6:v2:201:CYC:HMD1	1.87	0.56
6:C3:201:CYC:HMD1	6:C3:201:CYC:NC	2.19	0.56
1:Y3:118:SER:HA	2:b3:53:LYS:NZ	2.20	0.56
2:b3:114:GLU:HG2	5:k3:491:THR:HG23	1.87	0.56
5:j3:637:ARG:HB3	5:j3:684:TYR:HD1	1.70	0.56
5:j3:911:LEU:HD12	5:j3:914:PRO:HA	1.87	0.56
5:k3:258:LEU:HD12	5:k3:259:PRO:HD2	1.87	0.56
5:k3:352:ILE:HG22	5:k3:354:SER:H	1.70	0.56
5:k3:753:PHE:HB3	5:k3:767:LEU:HD23	1.88	0.56
2:B1:134:LYS:HE2	2:B1:154:ASP:OD1	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D1:22:ALA:O	2:D1:26:LYS:HG3	2.05	0.56
2:F1:65:LEU:HD11	2:F1:122:PRO:HG3	1.88	0.56
1:E1:114:GLU:HB3	2:J1:82:ILE:HD11	1.88	0.56
1:H1:134:LYS:HE2	1:H1:150:GLY:CA	2.35	0.56
2:I1:35:ALA:O	2:I1:39:ARG:HG2	2.05	0.56
2:J1:34:GLY:HA2	2:J1:37:ARG:HD2	1.88	0.56
1:C2:4:LEU:HD21	1:C2:26:ILE:HG23	1.88	0.56
2:F2:131:GLN:O	2:F2:135:GLU:HG2	2.05	0.56
1:U2:36:ARG:CZ	1:U2:99:GLY:HA2	2.35	0.56
1:Y2:89:LEU:HB2	1:Y2:133:MET:HE1	1.87	0.56
2:b2:71:MEN:HB2	6:b2:201:CYC:OC	2.05	0.56
2:l2:82:ILE:HG12	1:m2:114:GLU:OE2	2.05	0.56
1:m2:106:GLU:HA	1:m2:110:ILE:CD1	2.35	0.56
2:t2:111:GLY:HA2	2:t2:114:GLU:OE2	2.06	0.56
1:E3:19:SER:O	1:E3:23:LEU:HD22	2.06	0.56
1:U3:105:GLU:HB2	1:U3:109:ILE:HD11	1.87	0.56
2:Z3:114:GLU:OE2	2:Z3:114:GLU:N	2.32	0.56
5:j3:544:VAL:HG22	5:j3:545:GLY:H	1.71	0.56
2:D1:61:ILE:HD11	6:K1:201:CYC:HAA2	1.87	0.56
3:L1:92:ILE:HD13	3:L1:153:PHE:CE1	2.40	0.56
1:E2:97:VAL:HG23	2:F2:9:ILE:HD11	1.88	0.56
1:G2:33:GLY:O	1:G2:37:LEU:HG	2.06	0.56
1:O2:25:ARG:NH1	1:O2:25:ARG:HA	2.21	0.56
2:P2:14:VAL:HG13	2:P2:15:GLN:HG3	1.88	0.56
1:S2:38:ARG:O	1:S2:42:THR:HG23	2.05	0.56
2:d2:147:LYS:O	2:d2:151:ILE:HG23	2.05	0.56
1:o2:131:ARG:HG3	1:o2:157:VAL:HG21	1.87	0.56
1:s2:122:PRO:HG2	6:s2:201:CYC:HMC1	1.88	0.56
6:u2:201:CYC:HMD1	6:u2:201:CYC:NC	2.17	0.56
2:g3:53:LYS:HA	2:g3:53:LYS:HE3	1.88	0.56
5:k3:341:GLU:OE1	5:k3:344:ARG:NH2	2.27	0.56
2:B1:48:ALA:O	2:B1:52:ILE:HG12	2.05	0.56
1:C1:2:SER:OG	1:C1:3:VAL:N	2.36	0.56
3:K1:127:ILE:HD12	3:K1:160:MET:HG3	1.87	0.56
1:A2:76:LYS:HG3	1:A2:77:MET:CE	2.35	0.56
1:C2:122:PRO:HG2	1:C2:125:ALA:HB3	1.88	0.56
1:G2:62:ARG:O	1:G2:65:VAL:HG22	2.06	0.56
1:U2:122:PRO:O	1:U2:126:VAL:HG23	2.06	0.56
2:Z2:22:ALA:O	2:Z2:26:LYS:HG2	2.05	0.56
1:c2:27:LYS:HE3	2:d2:38:VAL:CG1	2.35	0.56
2:n2:147:LYS:O	2:n2:151:ILE:HG23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o2:10:ASN:N	1:o2:10:ASN:OD1	2.39	0.56
2:D3:50:THR:HG22	2:D3:54:GLU:OE2	2.05	0.56
2:F3:57:ALA:HA	2:F3:61:ILE:HD11	1.88	0.56
1:M3:75:GLU:OE1	1:M3:75:GLU:N	2.38	0.56
1:M3:109:ILE:HD11	1:M3:156:LEU:CD1	2.35	0.56
1:c3:6:LYS:HE3	1:c3:102:THR:HG23	1.87	0.56
1:e3:16:ARG:HH12	1:e3:19:SER:HB2	1.71	0.56
6:e3:201:CYC:HMA3	6:e3:201:CYC:HB	1.70	0.56
2:g3:48:ALA:O	2:g3:52:ILE:HG12	2.06	0.56
5:j3:146:ALA:HB1	5:j3:147:ARG:NH2	2.21	0.56
5:j3:939:GLN:O	5:j3:942:LYS:HG3	2.06	0.56
5:k3:669:GLU:OE2	5:k3:683:ARG:NH2	2.37	0.56
2:B1:96:MET:HA	2:B1:152:TYR:CE2	2.41	0.55
2:F1:21:GLY:HA2	2:F1:24:LEU:HD21	1.89	0.55
4:z1:5:PHE:CD1	4:z1:56:LEU:HA	2.41	0.55
2:R2:133:MET:HA	2:R2:136:VAL:HG22	1.87	0.55
2:V2:112:LEU:HD23	2:V2:160:LEU:HD21	1.88	0.55
1:W2:7:ALA:HB1	1:W2:22:GLU:CD	2.31	0.55
2:X2:51:ILE:HG23	2:X2:136:VAL:HG21	1.87	0.55
2:X2:57:ALA:HA	2:X2:61:ILE:HG12	1.87	0.55
1:Y2:49:ARG:HD3	1:Y2:53:GLN:HG3	1.87	0.55
2:b2:85:MET:HE1	6:b2:201:CYC:CBC	2.29	0.55
1:c2:19:SER:O	1:c2:23:LEU:HG	2.06	0.55
1:k2:38:ARG:O	1:k2:41:GLN:HG2	2.05	0.55
2:B3:76:ARG:NH2	6:z3:101:CYC:O1D	2.39	0.55
2:D3:8:VAL:HG11	2:D3:27:LEU:HD21	1.88	0.55
2:D3:78:TYR:O	2:D3:82:ILE:HG23	2.06	0.55
1:E3:36:ARG:NH2	1:E3:152:TYR:OH	2.39	0.55
2:F3:71:MEN:O	2:F3:77:ARG:HD2	2.05	0.55
1:G3:22:GLU:O	1:G3:26:ILE:HG13	2.06	0.55
2:L3:148:GLU:OE1	2:L3:148:GLU:N	2.31	0.55
2:N3:57:ALA:HA	2:N3:61:ILE:HD11	1.89	0.55
1:O3:14:GLU:OE1	1:O3:16:ARG:NE	2.24	0.55
1:O3:144:ASP:OD1	1:O3:144:ASP:N	2.37	0.55
1:S3:62:ARG:O	1:S3:65:VAL:HG22	2.05	0.55
1:a3:18:LEU:HG	2:g3:97:LEU:HD23	1.87	0.55
2:g3:65:LEU:HD21	6:g3:201:CYC:HMC2	1.87	0.55
1:C1:23:LEU:O	1:C1:27:LYS:HG3	2.07	0.55
2:I1:78:TYR:O	2:I1:82:ILE:HG23	2.07	0.55
3:L1:131:ARG:NH2	2:h3:46:SER:OG	2.39	0.55
1:Q2:61:ILE:HG21	1:Q2:128:GLU:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R2:51:ILE:HG12	2:R2:136:VAL:HG23	1.88	0.55
1:U2:37:LEU:HD22	2:V2:27:LEU:HD11	1.89	0.55
1:W2:12:ASP:HB3	4:w2:46:LYS:HZ1	1.71	0.55
1:W2:109:ILE:HD12	1:W2:159:ALA:CB	2.36	0.55
1:Y2:50:ILE:HA	1:Y2:136:VAL:CG1	2.35	0.55
1:Y2:122:PRO:HG2	1:Y2:125:ALA:HB3	1.88	0.55
1:a2:97:VAL:HG21	2:b2:19:LEU:HD11	1.88	0.55
1:i2:54:ALA:HB2	1:i2:133:MET:HA	1.87	0.55
1:m2:27:LYS:NZ	2:n2:35:ALA:HA	2.21	0.55
1:o2:27:LYS:HA	1:o2:27:LYS:HE3	1.88	0.55
1:s2:132:ALA:O	1:s2:136:VAL:HG23	2.07	0.55
4:y2:4:TYR:HB2	4:y2:58:THR:CG2	2.35	0.55
1:E3:39:ILE:O	1:E3:43:LEU:HG	2.06	0.55
6:F3:201:CYC:HMA3	5:k3:591:ILE:HG23	1.87	0.55
1:I3:109:ILE:HD11	1:I3:156:LEU:CD2	2.36	0.55
1:W3:105:GLU:HA	1:W3:109:ILE:CG1	2.36	0.55
2:b3:34:GLY:O	2:b3:38:VAL:HG23	2.06	0.55
6:j3:1205:CYC:HB	6:j3:1205:CYC:HMA1	1.71	0.55
5:k3:1127:SER:HA	5:k3:1130:VAL:HG22	1.89	0.55
2:F1:23:ALA:O	2:F1:27:LEU:HG	2.06	0.55
2:B2:78:TYR:O	2:B2:82:ILE:HG23	2.06	0.55
2:Z2:3:ASP:N	2:Z2:6:THR:OG1	2.36	0.55
2:b2:37:ARG:NH1	2:b2:96:MET:O	2.39	0.55
2:d2:54:GLU:O	2:d2:58:LYS:HG3	2.05	0.55
1:e2:115:MET:HE3	2:j2:78:TYR:HB3	1.88	0.55
1:g2:48:GLU:N	1:g2:48:GLU:OE2	2.38	0.55
1:o2:51:VAL:HG12	1:o2:82:LEU:HD12	1.87	0.55
2:B3:78:TYR:O	2:B3:82:ILE:HG23	2.07	0.55
1:Y3:105:GLU:HA	1:Y3:109:ILE:HD11	1.88	0.55
5:j3:386:ILE:HD11	5:j3:393:MET:HB2	1.89	0.55
5:k3:269:LEU:HD22	5:k3:428:VAL:HG13	1.88	0.55
1:E1:2:SER:N	1:E1:102:THR:HG1	2.04	0.55
2:G1:109:LEU:HD13	2:G1:159:GLY:HA3	1.89	0.55
2:G1:132:ALA:O	2:G1:136:VAL:HG23	2.07	0.55
2:J1:21:GLY:HA2	2:J1:24:LEU:HD21	1.88	0.55
2:J1:41:ALA:HB2	2:J1:96:MET:HE1	1.87	0.55
2:J1:119:LEU:HD21	4:M1:5:PHE:HZ	1.71	0.55
1:C2:36:ARG:NH1	1:C2:99:GLY:HA2	2.21	0.55
1:K2:105:GLU:HA	1:K2:109:ILE:CG1	2.36	0.55
1:O2:71:ASN:OD1	1:O2:121:THR:OG1	2.15	0.55
2:P2:12:TYR:CZ	2:P2:23:ALA:HB2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S2:132:ALA:O	1:S2:136:VAL:HG23	2.06	0.55
2:X2:5:ILE:HG12	2:X2:27:LEU:CD1	2.37	0.55
1:Y2:16:ARG:O	2:Z2:94:TYR:OH	2.24	0.55
1:Y2:62:ARG:O	1:Y2:65:VAL:HG22	2.06	0.55
1:a2:110:ILE:HD12	1:a2:110:ILE:O	2.06	0.55
1:q2:123:ILE:HG23	1:q2:160:MET:HG3	1.89	0.55
1:M3:97:VAL:HG21	2:N3:19:LEU:CD1	2.37	0.55
1:Q3:105:GLU:HA	1:Q3:109:ILE:HD11	1.89	0.55
5:k3:321:SER:O	5:k3:325:ASN:CB	2.55	0.55
2:h3:53:LYS:HA	2:h3:53:LYS:HE3	1.88	0.55
1:C1:36:ARG:NH2	1:C1:99:GLY:HA2	2.21	0.55
2:D1:152:TYR:O	2:D1:156:LEU:HG	2.05	0.55
1:H1:25:ARG:HB3	5:j3:42:GLN:CG	2.36	0.55
2:J1:134:LYS:HG3	2:J1:150:SER:HA	1.88	0.55
1:A2:85:LEU:HB3	1:A2:133:MET:HE2	1.87	0.55
1:C2:25:ARG:HB2	1:Q2:25:ARG:HE	1.70	0.55
2:D2:132:ALA:O	2:D2:136:VAL:HG23	2.06	0.55
1:I2:62:ARG:O	1:I2:65:VAL:HG22	2.07	0.55
1:W2:140:LEU:O	1:W2:141:LEU:HD23	2.05	0.55
2:b2:57:ALA:HA	2:b2:61:ILE:HD11	1.88	0.55
1:g2:130:VAL:HA	1:g2:133:MET:HE2	1.89	0.55
2:h2:132:ALA:O	2:h2:136:VAL:HG23	2.07	0.55
1:m2:42:THR:HA	1:m2:45:GLU:OE1	2.06	0.55
1:q2:43:LEU:HD11	1:q2:137:ALA:HB1	1.89	0.55
2:t2:147:LYS:O	2:t2:151:ILE:HG23	2.05	0.55
1:u2:105:GLU:HA	1:u2:109:ILE:HG12	1.89	0.55
2:v2:148:GLU:HA	2:v2:151:ILE:CD1	2.35	0.55
2:B3:78:TYR:CG	1:C3:115:MET:HE1	2.41	0.55
1:O3:48:GLU:OE2	1:O3:48:GLU:N	2.36	0.55
1:W3:53:GLN:HG3	1:W3:136:VAL:HG22	1.88	0.55
2:f3:37:ARG:HG3	2:f3:96:MET:HG2	1.88	0.55
4:i3:42:GLN:O	4:i3:46:LYS:HG3	2.06	0.55
5:j3:331:ARG:NH2	5:j3:407:ASP:HA	2.21	0.55
5:k3:218:ALA:HA	5:k3:221:LYS:CE	2.37	0.55
5:k3:502:GLY:O	5:k3:642:ARG:NE	2.38	0.55
5:k3:544:VAL:HG22	5:k3:564:VAL:CG2	2.35	0.55
1:A2:62:ARG:O	1:A2:65:VAL:HG22	2.06	0.55
2:F2:1:MET:N	5:k3:749:GLN:OE1	2.35	0.55
1:O2:109:ILE:HD12	1:O2:159:ALA:CB	2.36	0.55
2:T2:123:ILE:O	2:T2:127:VAL:HG13	2.07	0.55
2:l2:76:ARG:HD3	1:m2:110:ILE:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m2:77:MET:H	1:m2:77:MET:HE2	1.71	0.55
1:m2:77:MET:SD	1:m2:77:MET:N	2.80	0.55
1:m2:85:LEU:HD22	1:m2:133:MET:CE	2.36	0.55
1:s2:100:ASP:OD1	1:s2:101:VAL:N	2.39	0.55
2:t2:119:LEU:HD11	6:j3:1205:CYC:HAA2	1.87	0.55
2:D3:85:MET:HG3	2:D3:133:MET:CE	2.35	0.55
2:F3:95:ALA:HB2	2:F3:104:LEU:HG	1.89	0.55
2:H3:147:LYS:HD3	2:H3:148:GLU:N	2.21	0.55
2:J3:52:ILE:HG21	2:J3:82:ILE:HG23	1.87	0.55
1:K3:122:PRO:HG2	1:K3:125:ALA:HB3	1.88	0.55
2:X3:15:GLN:HE22	2:X3:17:LYS:HE2	1.70	0.55
1:Y3:61:ILE:HG22	1:Y3:62:ARG:HG2	1.87	0.55
2:b3:28:LYS:O	2:b3:32:THR:HG23	2.06	0.55
1:c3:53:GLN:O	1:c3:57:GLN:HG2	2.07	0.55
2:g3:51:ILE:HG23	2:g3:136:VAL:CG2	2.37	0.55
4:i3:11:ILE:HD11	4:i3:44:ILE:HG12	1.87	0.55
5:k3:251:GLU:N	5:k3:251:GLU:OE2	2.40	0.55
2:B1:5:ILE:HG13	2:B1:27:LEU:HD22	1.88	0.55
1:C1:34:GLU:O	1:C1:38:ARG:HG3	2.07	0.55
2:D1:8:VAL:HG11	2:D1:27:LEU:HD21	1.87	0.55
2:D1:12:TYR:CZ	2:D1:23:ALA:HB2	2.42	0.55
2:G1:76:ARG:NH2	1:H1:106:GLU:O	2.40	0.55
3:K1:117:ARG:HD3	5:k3:238:ARG:O	2.07	0.55
1:A2:115:MET:CE	2:F2:75:THR:HG22	2.37	0.55
1:C2:38:ARG:O	1:C2:41:GLN:HG3	2.07	0.55
2:F2:105:ASP:OD2	2:F2:155:TYR:OH	2.14	0.55
1:G2:39:ILE:CD1	1:G2:145:ASP:HB2	2.37	0.55
1:I2:95:GLY:HA3	1:I2:104:ILE:HD11	1.88	0.55
1:K2:39:ILE:HG12	1:K2:145:ASP:HB3	1.87	0.55
2:L2:65:LEU:HB3	2:L2:72:MET:CG	2.36	0.55
1:U2:108:GLY:O	1:U2:109:ILE:HD13	2.06	0.55
1:g2:132:ALA:O	1:g2:136:VAL:HG23	2.07	0.55
2:l2:132:ALA:O	2:l2:136:VAL:HG23	2.06	0.55
1:s2:105:GLU:HA	1:s2:109:ILE:CG2	2.36	0.55
1:u2:92:VAL:HG23	1:u2:156:LEU:HD12	1.89	0.55
2:v2:1:MET:SD	2:v2:103:ILE:HD11	2.46	0.55
1:S3:67:SER:O	1:S3:73:TYR:HB2	2.06	0.55
1:Y3:44:THR:HG22	2:Z3:18:TYR:CD2	2.40	0.55
2:f3:38:VAL:CG1	5:j3:40:VAL:HG13	2.36	0.55
5:j3:253:ARG:HD2	5:j3:370:GLU:HB2	1.88	0.55
5:k3:575:ILE:HD12	5:k3:607:LEU:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:h3:201:CYC:HMA1	6:h3:201:CYC:NB	2.21	0.55
1:E1:64:ASP:N	1:E1:64:ASP:OD1	2.33	0.55
3:K1:123:ILE:CD1	5:k3:238:ARG:HG3	2.36	0.55
1:C2:95:GLY:HA3	1:C2:104:ILE:HD11	1.89	0.55
1:E2:145:ASP:OD1	1:E2:145:ASP:N	2.39	0.55
2:H2:78:TYR:O	2:H2:82:ILE:HG23	2.06	0.55
2:L2:132:ALA:O	2:L2:136:VAL:HG23	2.06	0.55
1:O2:26:ILE:O	1:O2:30:VAL:HG22	2.06	0.55
1:S2:34:GLU:N	1:S2:34:GLU:OE2	2.40	0.55
1:S2:115:MET:HE2	1:S2:115:MET:HA	1.89	0.55
2:T2:12:TYR:CZ	2:T2:23:ALA:HB2	2.42	0.55
2:T2:96:MET:HA	2:T2:152:TYR:CE2	2.42	0.55
1:Y2:4:LEU:HD23	1:Y2:26:ILE:HD13	1.88	0.55
1:c2:99:GLY:O	1:m2:21:GLY:HA3	2.07	0.55
1:e2:62:ARG:O	1:e2:65:VAL:HG22	2.06	0.55
2:f2:105:ASP:OD2	2:f2:155:TYR:OH	2.14	0.55
1:i2:99:GLY:O	1:s2:21:GLY:HA3	2.07	0.55
2:l2:10:ASN:ND2	5:k3:1143:LEU:O	2.39	0.55
1:s2:95:GLY:CA	1:s2:104:ILE:HD11	2.36	0.55
2:T3:64:ASP:OD1	2:T3:67:ARG:NH1	2.40	0.55
2:T3:131:GLN:O	2:T3:135:GLU:HG2	2.06	0.55
2:g3:131:GLN:O	2:g3:135:GLU:HG2	2.07	0.55
5:j3:776:PHE:HB3	5:j3:780:ILE:HD12	1.88	0.55
5:j3:1023:SER:HB3	6:j3:1203:CYC:CMA	2.37	0.55
5:j3:1047:LYS:HE2	5:j3:1140:TRP:CE3	2.41	0.55
5:k3:489:ASN:HD22	5:k3:492:ILE:HG12	1.72	0.55
2:h3:103:ILE:HD11	2:h3:107:ARG:HD2	1.88	0.55
1:M2:39:ILE:O	1:M2:43:LEU:HG	2.07	0.55
1:Q2:134:LYS:HB2	1:Q2:153:PHE:HB3	1.88	0.55
1:c2:102:THR:O	1:c2:106:GLU:HG3	2.07	0.55
2:r2:78:TYR:HB3	1:s2:115:MET:CE	2.36	0.55
2:F3:8:VAL:HG22	2:F3:26:LYS:HD2	1.88	0.55
2:J3:57:ALA:HA	2:J3:61:ILE:HD11	1.87	0.55
1:M3:57:GLN:OE1	1:M3:57:GLN:N	2.40	0.55
2:P3:75:THR:HG22	1:Q3:115:MET:CE	2.36	0.55
2:P3:78:TYR:O	2:P3:82:ILE:HG23	2.07	0.55
1:W3:105:GLU:HA	1:W3:109:ILE:HD11	1.89	0.55
2:X3:65:LEU:HD22	5:j3:706:PRO:HG3	1.89	0.55
2:Z3:65:LEU:HB3	2:Z3:72:MET:HG2	1.89	0.55
5:j3:254:PRO:HD3	2:h3:107:ARG:HG2	1.89	0.55
5:k3:760:ASP:OD1	5:k3:763:SER:OG	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k3:911:LEU:HD12	5:k3:914:PRO:HA	1.89	0.55
5:k3:1016:LEU:HB3	5:k3:1044:ASN:ND2	2.22	0.55
1:A1:132:ALA:O	1:A1:136:VAL:HG23	2.07	0.55
3:L1:122:PRO:HA	5:j3:238:ARG:NH1	2.21	0.55
1:C2:57:GLN:O	1:C2:61:ILE:HG22	2.06	0.55
2:D2:33:THR:HG21	5:k3:930:LEU:HB3	1.87	0.55
1:O2:109:ILE:HD11	1:O2:156:LEU:CD2	2.35	0.55
2:R2:122:PRO:HG2	6:R2:201:CYC:HMC3	1.89	0.55
1:U2:38:ARG:O	1:U2:41:GLN:HG3	2.06	0.55
1:W2:2:SER:OG	2:X2:3:ASP:OD2	2.24	0.55
1:Y2:68:PRO:HA	1:Y2:73:TYR:CD2	2.42	0.55
1:a2:16:ARG:O	2:b2:94:TYR:OH	2.25	0.55
2:d2:72:MET:HB2	6:x2:101:CYC:OC	2.06	0.55
1:e2:134:LYS:HE3	1:e2:150:GLY:CA	2.37	0.55
2:j2:132:ALA:O	2:j2:136:VAL:HG23	2.06	0.55
1:k2:64:ASP:OD1	1:k2:64:ASP:N	2.37	0.55
2:l2:12:TYR:OH	2:l2:20:ASP:OD1	2.22	0.55
1:o2:105:GLU:O	1:o2:110:ILE:HG22	2.06	0.55
1:q2:50:ILE:HG22	1:q2:89:LEU:HD11	1.89	0.55
2:r2:41:ALA:N	2:r2:96:MET:HE1	2.21	0.55
1:u2:8:ILE:CD1	2:v2:98:ALA:HB2	2.36	0.55
4:x2:4:TYR:HB2	4:x2:58:THR:CG2	2.37	0.55
1:A3:32:SER:O	1:A3:36:ARG:HG3	2.06	0.55
1:G3:7:ALA:HB2	1:G3:25:ARG:NH1	2.22	0.55
1:K3:20:PRO:HB3	1:U3:151:PHE:HB3	1.89	0.55
1:O3:122:PRO:HG2	1:O3:125:ALA:HB3	1.88	0.55
1:W3:57:GLN:HA	1:W3:60:GLN:HE21	1.71	0.55
2:f3:28:LYS:O	2:f3:32:THR:HG23	2.06	0.55
5:j3:208:LYS:HE3	5:j3:209:ASN:HB2	1.89	0.55
1:A1:34:GLU:HA	1:A1:37:LEU:HD12	1.88	0.54
1:C1:105:GLU:HG2	1:C1:155:TYR:OH	2.07	0.54
1:M2:91:LEU:HD11	1:M2:107:ILE:HB	1.88	0.54
2:P2:11:ASN:O	2:P2:14:VAL:HG12	2.07	0.54
2:V2:106:GLU:O	2:V2:110:ASN:ND2	2.38	0.54
1:i2:102:THR:HG23	1:i2:103:PRO:HD3	1.89	0.54
1:m2:5:THR:HG23	2:n2:1:MET:SD	2.47	0.54
1:o2:63:PRO:HG2	1:G3:60:GLN:HG3	1.89	0.54
6:o2:201:CYC:HMD1	6:o2:201:CYC:NC	2.18	0.54
2:p2:132:ALA:O	2:p2:136:VAL:HG13	2.07	0.54
1:q2:103:PRO:HA	5:j3:1143:LEU:CD1	2.36	0.54
1:s2:106:GLU:HA	1:s2:110:ILE:CD1	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:t2:61:ILE:HG13	2:t2:62:TYR:CD2	2.42	0.54
1:u2:22:GLU:O	1:u2:26:ILE:HG13	2.07	0.54
1:C3:134:LYS:O	1:C3:138:THR:HG23	2.06	0.54
2:H3:78:TYR:O	2:H3:82:ILE:HG23	2.07	0.54
1:M3:19:SER:HB3	1:M3:22:GLU:HG3	1.90	0.54
6:Z3:201:CYC:O2D	5:k3:372:ARG:NH2	2.37	0.54
1:a3:37:LEU:HD22	2:g3:24:LEU:HD23	1.89	0.54
2:g3:4:ALA:O	2:g3:8:VAL:HG23	2.07	0.54
2:G1:89:LEU:O	2:G1:93:THR:OG1	2.25	0.54
1:H1:132:ALA:O	1:H1:136:VAL:HG23	2.07	0.54
2:J1:12:TYR:HA	2:J1:15:GLN:NE2	2.22	0.54
1:A2:105:GLU:HG3	1:A2:109:ILE:HD11	1.89	0.54
2:F2:65:LEU:HB3	2:F2:72:MET:CG	2.37	0.54
2:T2:147:LYS:O	2:T2:151:ILE:HG23	2.07	0.54
2:V2:51:ILE:HG23	2:V2:136:VAL:CG2	2.37	0.54
2:V2:132:ALA:O	2:V2:136:VAL:HG13	2.07	0.54
2:Z2:96:MET:HE1	2:Z2:149:ALA:HB2	1.88	0.54
2:d2:73:TYR:O	2:d2:77:ARG:HB2	2.08	0.54
1:i2:76:LYS:H	1:i2:76:LYS:HD3	1.72	0.54
1:m2:100:ASP:OD1	1:m2:101:VAL:N	2.40	0.54
1:m2:130:VAL:HA	1:m2:133:MET:CE	2.36	0.54
2:t2:134:LYS:HG3	2:t2:153:PHE:HB2	1.89	0.54
1:A3:75:GLU:OE1	1:A3:75:GLU:N	2.37	0.54
1:M3:126:VAL:HG12	1:M3:160:MET:HE1	1.90	0.54
2:N3:112:LEU:HD23	2:N3:160:LEU:HD21	1.89	0.54
1:a3:60:GLN:HE21	1:a3:60:GLN:HA	1.72	0.54
1:e3:18:LEU:HG	2:h3:97:LEU:HD23	1.89	0.54
2:g3:51:ILE:HG23	2:g3:136:VAL:HG21	1.90	0.54
5:j3:277:ILE:O	5:j3:279:GLY:N	2.40	0.54
5:j3:471:PRO:HB3	5:j3:642:ARG:HG2	1.88	0.54
5:j3:755:GLN:HB3	5:j3:879:ASP:CB	2.36	0.54
5:j3:984:ILE:HD12	5:j3:985:ALA:N	2.22	0.54
5:k3:164:LEU:O	5:k3:167:THR:OG1	2.25	0.54
5:k3:382:ILE:HG13	5:k3:401:LEU:HB2	1.89	0.54
5:k3:1037:ARG:O	5:k3:1041:ARG:HG2	2.08	0.54
1:E1:122:PRO:O	1:E1:126:VAL:HG23	2.08	0.54
2:G1:96:MET:HA	2:G1:152:TYR:CE2	2.42	0.54
3:L1:20:VAL:HG13	1:e3:151:PHE:CE1	2.41	0.54
3:L1:53:GLN:OE1	3:L1:136:GLU:HG2	2.08	0.54
2:H2:65:LEU:HB3	2:H2:72:MET:HG2	1.88	0.54
1:K2:77:MET:HE1	6:K2:201:CYC:O1D	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S2:109:ILE:HD12	1:S2:110:ILE:HG23	1.88	0.54
1:U2:36:ARG:NH1	1:U2:99:GLY:HA2	2.22	0.54
1:a2:41:GLN:O	1:a2:45:GLU:HG2	2.07	0.54
1:a2:132:ALA:O	1:a2:136:VAL:HG23	2.07	0.54
1:i2:19:SER:O	1:i2:23:LEU:HG	2.07	0.54
2:p2:25:ASP:HA	2:p2:28:LYS:CD	2.37	0.54
2:r2:12:TYR:CE1	2:r2:23:ALA:HB2	2.42	0.54
1:u2:27:LYS:HA	1:u2:30:VAL:HG22	1.89	0.54
2:F3:78:TYR:O	2:F3:82:ILE:HG23	2.08	0.54
1:I3:11:ALA:HA	1:I3:16:ARG:NH1	2.23	0.54
2:L3:15:GLN:HG3	2:L3:17:LYS:HB2	1.89	0.54
2:X3:12:TYR:HE2	2:X3:20:ASP:H	1.54	0.54
1:Y3:105:GLU:HG2	1:Y3:110:ILE:HD11	1.89	0.54
1:c3:53:GLN:HA	1:c3:56:ASP:OD2	2.07	0.54
2:g3:79:ALA:CB	5:k3:261:ILE:HD11	2.37	0.54
5:j3:1052:PRO:HG3	5:j3:1140:TRP:HA	1.89	0.54
5:k3:205:GLU:O	5:k3:208:LYS:HG3	2.07	0.54
1:A1:19:SER:HB3	1:A1:22:GLU:HG2	1.87	0.54
1:C1:126:VAL:O	1:C1:130:VAL:HG23	2.07	0.54
2:G1:48:ALA:O	2:G1:52:ILE:HG12	2.06	0.54
4:z1:4:TYR:N	4:z1:58:THR:OG1	2.35	0.54
1:A2:105:GLU:HA	1:A2:109:ILE:HG12	1.89	0.54
1:A2:126:VAL:HG22	6:A2:201:CYC:HMC1	1.88	0.54
1:C2:25:ARG:HE	1:Q2:25:ARG:HD2	1.73	0.54
1:S2:89:LEU:O	1:S2:93:THR:HG23	2.07	0.54
1:U2:47:ARG:O	1:U2:51:VAL:HG22	2.06	0.54
1:c2:104:ILE:HG22	1:c2:109:ILE:CD1	2.37	0.54
1:c2:122:PRO:HB2	1:c2:125:ALA:HB3	1.88	0.54
2:d2:132:ALA:O	2:d2:136:VAL:HG23	2.07	0.54
1:g2:113:LYS:HD2	1:g2:123:ILE:HD13	1.90	0.54
2:B3:1:MET:HA	2:B3:106:GLU:OE2	2.07	0.54
1:K3:62:ARG:NH2	1:K3:125:ALA:HA	2.21	0.54
2:P3:101:PRO:HG2	2:b3:161:SER:O	2.07	0.54
1:c3:138:THR:OG1	1:c3:146:ALA:HB1	2.08	0.54
1:e3:24:ASP:O	1:e3:26:ILE:N	2.39	0.54
2:f3:132:ALA:O	2:f3:136:VAL:HG23	2.07	0.54
4:z3:14:LEU:HD12	4:z3:15:LYS:H	1.72	0.54
5:k3:335:ARG:O	5:k3:339:LYS:HG2	2.07	0.54
2:B1:104:LEU:HA	2:B1:108:VAL:CG2	2.38	0.54
2:G1:113:LYS:HD2	2:G1:114:GLU:N	2.23	0.54
1:H1:105:GLU:O	1:H1:110:ILE:HG22	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:124:PRO:O	1:H1:128:GLU:HG2	2.06	0.54
4:z1:2:SER:HB3	4:z1:69:ALA:HB2	1.89	0.54
1:C2:25:ARG:NH2	1:Q2:25:ARG:HD2	2.20	0.54
6:K2:201:CYC:HMD1	6:K2:201:CYC:NC	2.18	0.54
2:N2:40:ALA:CB	2:N2:96:MET:HE1	2.38	0.54
1:O2:68:PRO:HA	1:O2:73:TYR:CD2	2.42	0.54
6:P2:201:CYC:HMA3	6:P2:201:CYC:HB	1.73	0.54
1:U2:50:ILE:HD11	1:U2:140:LEU:HD12	1.90	0.54
1:W2:37:LEU:HD22	2:X2:24:LEU:HD22	1.89	0.54
1:e2:122:PRO:HG2	1:e2:125:ALA:HB3	1.88	0.54
1:m2:158:GLY:O	1:m2:161:GLN:HB2	2.07	0.54
2:v2:36:VAL:HA	2:v2:39:ARG:CD	2.37	0.54
2:v2:122:PRO:HB3	5:j3:1151:GLN:HA	1.87	0.54
1:E3:122:PRO:HG2	1:E3:125:ALA:HB3	1.88	0.54
1:a3:138:THR:OG1	1:a3:146:ALA:HB1	2.08	0.54
1:c3:62:ARG:O	1:c3:65:VAL:HG22	2.08	0.54
2:g3:129:GLY:O	2:g3:133:MET:HG3	2.08	0.54
5:j3:1120:PRO:HB2	5:j3:1123:ASN:HB2	1.90	0.54
2:B1:112:LEU:HG	2:B1:160:LEU:HD21	1.88	0.54
2:F1:104:LEU:HA	2:F1:108:VAL:CG2	2.38	0.54
1:E1:49:ARG:NH2	1:E1:140:LEU:HD21	2.23	0.54
1:E1:98:ALA:HA	2:G1:5:ILE:HG21	1.88	0.54
1:H1:91:LEU:HD11	1:H1:107:ILE:CB	2.34	0.54
3:L1:57:GLY:O	3:L1:61:ARG:HD3	2.08	0.54
3:L1:65:LEU:HD21	6:L1:201:CYC:HMC1	1.90	0.54
4:z1:4:TYR:HD1	4:z1:33:PRO:HA	1.72	0.54
1:C2:68:PRO:HA	1:C2:73:TYR:CD2	2.43	0.54
1:O2:158:GLY:O	1:O2:161:GLN:HB2	2.06	0.54
6:O2:201:CYC:HMA3	6:O2:201:CYC:HB	1.71	0.54
2:Z2:12:TYR:OH	2:Z2:20:ASP:OD1	2.24	0.54
2:Z2:132:ALA:O	2:Z2:136:VAL:HG23	2.07	0.54
1:c2:36:ARG:NH1	1:c2:99:GLY:HA2	2.22	0.54
1:i2:40:ALA:O	1:i2:44:THR:HG22	2.08	0.54
1:o2:16:ARG:O	2:p2:94:TYR:OH	2.21	0.54
1:s2:5:THR:HG23	2:t2:1:MET:SD	2.47	0.54
2:B3:71:MEN:OD1	6:z3:101:CYC:HMD2	2.07	0.54
2:H3:73:TYR:O	2:H3:77:ARG:HB2	2.08	0.54
1:I3:81:CYS:O	1:I3:85:LEU:HG	2.07	0.54
1:O3:132:ALA:O	1:O3:136:VAL:HG23	2.07	0.54
2:P3:12:TYR:CZ	2:P3:23:ALA:HB2	2.43	0.54
1:S3:97:VAL:HG21	2:T3:19:LEU:CD1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y3:105:GLU:HA	1:Y3:109:ILE:CD1	2.38	0.54
2:f3:34:GLY:O	2:f3:38:VAL:HG23	2.07	0.54
5:j3:854:LEU:HD22	5:j3:862:LEU:HD22	1.89	0.54
5:k3:1016:LEU:HD11	5:k3:1048:ARG:CZ	2.37	0.54
1:C1:92:VAL:HG21	1:C1:153:PHE:CE1	2.43	0.54
2:G1:151:ILE:HD12	2:G1:152:TYR:N	2.23	0.54
2:I1:12:TYR:CZ	2:I1:23:ALA:HB2	2.43	0.54
2:I1:75:THR:HG23	3:L1:108:GLY:HA2	1.89	0.54
3:K1:20:VAL:HG21	1:a3:155:TYR:HB2	1.89	0.54
2:B2:114:GLU:OE2	5:k3:914:PRO:HG2	2.07	0.54
1:G2:76:LYS:HG2	1:G2:77:MET:HE3	1.89	0.54
1:Q2:109:ILE:HD11	1:Q2:156:LEU:CD2	2.38	0.54
2:R2:51:ILE:HG23	2:R2:136:VAL:HG21	1.87	0.54
1:U2:97:VAL:HG21	2:V2:19:LEU:HD11	1.89	0.54
1:U2:132:ALA:O	1:U2:136:VAL:HG23	2.07	0.54
1:W2:26:ILE:HD11	2:X2:38:VAL:CG2	2.38	0.54
1:c2:64:ASP:OD1	1:c2:64:ASP:N	2.41	0.54
2:p2:96:MET:HA	2:p2:152:TYR:CE2	2.43	0.54
2:p2:137:VAL:HG21	2:p2:153:PHE:HE2	1.72	0.54
1:q2:128:GLU:OE1	1:q2:131:ARG:NH1	2.40	0.54
1:s2:68:PRO:HA	1:s2:73:TYR:CD2	2.43	0.54
4:w2:5:PHE:HB2	4:w2:32:VAL:HG13	1.90	0.54
1:A3:54:ALA:CB	1:A3:133:MET:HG3	2.38	0.54
1:E3:48:GLU:OE2	1:E3:48:GLU:N	2.40	0.54
1:G3:53:GLN:O	1:G3:57:GLN:HG3	2.07	0.54
2:J3:83:ARG:NH1	2:J3:84:ASP:OD1	2.41	0.54
1:S3:122:PRO:HG2	1:S3:125:ALA:HB3	1.90	0.54
1:W3:132:ALA:O	1:W3:136:VAL:HG23	2.07	0.54
1:Y3:122:PRO:HG2	1:Y3:125:ALA:HB3	1.90	0.54
2:f3:15:GLN:CG	2:f3:17:LYS:HG2	2.32	0.54
2:f3:112:LEU:HD23	2:f3:160:LEU:HD21	1.89	0.54
6:j3:1201:CYC:HMD1	6:j3:1201:CYC:NC	2.20	0.54
6:j3:1203:CYC:HB	6:j3:1203:CYC:HMA1	1.73	0.54
5:k3:184:LEU:HD11	5:k3:242:PRO:CD	2.33	0.54
1:A1:11:ALA:CB	1:A1:18:LEU:HD23	2.38	0.54
1:A1:109:ILE:HD11	1:A1:156:LEU:CD2	2.37	0.54
1:A1:130:VAL:HG21	1:A1:160:MET:HE1	1.90	0.54
2:B1:46:SER:HA	1:Y3:154:ASP:HB2	1.90	0.54
2:F1:10:ASN:O	2:F1:14:VAL:HG13	2.07	0.54
1:G2:109:ILE:HD12	1:G2:110:ILE:N	2.22	0.54
2:H2:148:GLU:OE1	2:H2:148:GLU:N	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L2:105:ASP:OD2	2:L2:155:TYR:OH	2.13	0.54
1:M2:37:LEU:HD22	2:N2:24:LEU:HD22	1.90	0.54
2:N2:10:ASN:HB3	4:z2:65:THR:HB	1.90	0.54
2:N2:131:GLN:NE2	2:N2:157:SER:OG	2.41	0.54
1:U2:99:GLY:O	1:U2:152:TYR:OH	2.24	0.54
1:a2:56:ASP:O	1:a2:60:GLN:HG2	2.08	0.54
6:a2:201:CYC:HMD1	6:a2:201:CYC:NC	2.20	0.54
1:c2:122:PRO:HB2	1:c2:125:ALA:CB	2.38	0.54
1:i2:122:PRO:HB2	1:i2:125:ALA:CB	2.38	0.54
2:j2:12:TYR:CZ	2:j2:23:ALA:HB2	2.43	0.54
1:q2:110:ILE:HD12	5:j3:1140:TRP:HH2	1.73	0.54
4:y2:24:GLN:HB2	5:j3:1109:ASP:OD2	2.08	0.54
1:E3:39:ILE:HG12	1:E3:145:ASP:HB3	1.89	0.54
1:G3:121:THR:CG2	6:G3:201:CYC:HMC3	2.36	0.54
1:M3:113:LYS:HD3	1:M3:123:ILE:HD13	1.89	0.54
2:P3:76:ARG:HH11	1:Q3:110:ILE:HD11	1.72	0.54
1:a3:114:GLU:N	1:a3:114:GLU:OE2	2.41	0.54
2:b3:38:VAL:CG1	5:k3:40:VAL:HG13	2.38	0.54
5:j3:209:ASN:HA	5:j3:212:ARG:CG	2.38	0.54
5:j3:586:LEU:HD13	5:j3:607:LEU:HD22	1.90	0.54
5:j3:939:GLN:O	5:j3:943:THR:HG23	2.07	0.54
5:j3:1037:ARG:O	5:j3:1041:ARG:HG2	2.07	0.54
5:k3:269:LEU:HD11	5:k3:422:TYR:CD1	2.43	0.54
1:A1:37:LEU:HD11	2:B1:31:PHE:HD2	1.73	0.54
1:C1:12:ASP:OD2	4:z1:21:ARG:NH1	2.39	0.54
2:D1:35:ALA:O	2:D1:39:ARG:HG2	2.08	0.54
2:J1:147:LYS:O	2:J1:151:ILE:HG23	2.08	0.54
3:K1:117:ARG:NH2	5:k3:242:PRO:HA	2.23	0.54
1:A2:64:ASP:N	1:A2:64:ASP:OD1	2.39	0.54
6:C2:201:CYC:HMA3	6:C2:201:CYC:HB	1.71	0.54
2:D2:112:LEU:HD23	2:D2:160:LEU:HD21	1.88	0.54
1:Q2:3:VAL:HA	1:Q2:6:LYS:CD	2.38	0.54
1:U2:12:ASP:OD2	2:V2:107:ARG:NH1	2.37	0.54
1:g2:112:VAL:O	1:g2:115:MET:HB3	2.08	0.54
2:h2:57:ALA:HA	2:h2:61:ILE:HD11	1.90	0.54
1:i2:134:LYS:O	1:i2:138:THR:HG22	2.08	0.54
2:p2:51:ILE:HG23	2:p2:136:VAL:CG2	2.38	0.54
2:v2:96:MET:HA	2:v2:152:TYR:CE2	2.42	0.54
4:x2:31:LEU:HD23	5:k3:1029:GLU:HB3	1.90	0.54
2:B3:95:ALA:HB2	2:B3:104:LEU:HG	1.90	0.54
2:B3:132:ALA:O	2:B3:136:VAL:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F3:12:TYR:CZ	2:F3:23:ALA:HB2	2.42	0.54
2:F3:85:MET:HG3	2:F3:133:MET:CE	2.29	0.54
2:P3:132:ALA:O	2:P3:136:VAL:HG23	2.08	0.54
2:T3:77:ARG:HG3	6:T3:201:CYC:HMD1	1.89	0.54
2:X3:24:LEU:O	2:X3:28:LYS:HE2	2.07	0.54
1:Y3:105:GLU:HA	1:Y3:109:ILE:CG1	2.38	0.54
1:c3:85:LEU:O	1:c3:133:MET:HE1	2.07	0.54
5:j3:184:LEU:O	5:j3:240:ASP:HB3	2.07	0.54
5:j3:278:TYR:HB2	5:j3:284:PRO:CG	2.38	0.54
1:A1:80:LEU:HD22	1:A1:83:ARG:NH2	2.23	0.54
2:F1:107:ARG:NE	4:z1:46:LYS:HA	2.23	0.54
2:G1:83:ARG:NH2	6:j3:1201:CYC:O2A	2.41	0.54
1:H1:35:ARG:HA	1:H1:38:ARG:HE	1.72	0.54
2:J1:60:LEU:HB3	2:J1:72:MET:CE	2.36	0.54
4:M1:2:SER:HB3	4:M1:69:ALA:HB2	1.89	0.54
1:A2:115:MET:HE1	2:F2:75:THR:HG22	1.90	0.54
1:G2:138:THR:OG1	1:G2:146:ALA:HB1	2.08	0.54
1:M2:109:ILE:HD12	1:M2:110:ILE:N	2.23	0.54
6:M2:201:CYC:HMD1	6:M2:201:CYC:NC	2.20	0.54
2:N2:147:LYS:O	2:N2:151:ILE:HG23	2.07	0.54
1:O2:97:VAL:HG21	2:P2:19:LEU:HD11	1.90	0.54
1:e2:132:ALA:O	1:e2:136:VAL:HG23	2.08	0.54
1:g2:97:VAL:HG21	2:h2:19:LEU:CD1	2.38	0.54
2:h2:76:ARG:HB2	1:i2:110:ILE:CD1	2.38	0.54
1:k2:16:ARG:O	2:l2:94:TYR:OH	2.23	0.54
1:m2:49:ARG:HG3	1:m2:53:GLN:NE2	2.23	0.54
1:o2:4:LEU:HD21	2:p2:30:TYR:OH	2.08	0.54
1:u2:41:GLN:O	1:u2:45:GLU:HG2	2.08	0.54
1:A3:28:SER:O	1:A3:31:ALA:N	2.41	0.54
1:G3:75:GLU:OE1	1:G3:75:GLU:N	2.36	0.54
1:Q3:88:TYR:O	1:Q3:92:VAL:HG12	2.08	0.54
1:c3:76:LYS:HG2	1:c3:77:MET:CE	2.36	0.54
5:j3:949:ARG:HG3	5:j3:954:GLU:HG2	1.89	0.54
5:k3:519:GLU:HA	5:k3:522:ASN:O	2.08	0.54
1:H1:51:VAL:HG22	1:H1:133:MET:CE	2.37	0.53
2:I1:94:TYR:HA	2:I1:97:LEU:HG	1.90	0.53
2:J1:52:ILE:HG23	2:J1:85:MET:HG2	1.90	0.53
1:A2:68:PRO:HA	1:A2:73:TYR:CG	2.42	0.53
1:I2:128:GLU:HA	1:I2:131:ARG:HH12	1.73	0.53
1:M2:67:SER:O	1:M2:73:TYR:HB2	2.08	0.53
1:M2:132:ALA:O	1:M2:136:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U2:105:GLU:HA	1:U2:109:ILE:HB	1.90	0.53
1:W2:16:ARG:O	2:X2:94:TYR:OH	2.26	0.53
1:a2:68:PRO:HA	1:a2:73:TYR:CD2	2.43	0.53
1:a2:97:VAL:HG21	2:b2:19:LEU:CD1	2.37	0.53
1:i2:138:THR:HA	1:i2:141:LEU:HD12	1.89	0.53
1:m2:65:VAL:HG12	1:m2:122:PRO:HG3	1.90	0.53
1:q2:85:LEU:HB3	1:q2:133:MET:HE1	1.90	0.53
4:y2:11:ILE:CD1	4:y2:44:ILE:HG23	2.37	0.53
1:K3:156:LEU:O	1:K3:160:MET:HE3	2.07	0.53
1:O3:105:GLU:HG3	1:O3:109:ILE:HD11	1.91	0.53
1:U3:48:GLU:OE2	1:U3:48:GLU:N	2.34	0.53
2:X3:102:SER:O	2:X3:106:GLU:HG3	2.08	0.53
2:Z3:10:ASN:O	2:Z3:14:VAL:HG13	2.08	0.53
2:f3:52:ILE:HG12	2:f3:133:MET:HE2	1.89	0.53
2:f3:137:VAL:O	2:f3:141:VAL:HG22	2.09	0.53
2:g3:110:ASN:O	5:k3:434:TRP:HA	2.08	0.53
4:z3:24:GLN:NE2	5:k3:541:THR:HA	2.23	0.53
5:k3:237:ASP:C	5:k3:238:ARG:HD3	2.33	0.53
5:k3:557:VAL:O	5:k3:558:VAL:HG12	2.08	0.53
2:B1:6:THR:HB	4:z1:65:THR:HG21	1.90	0.53
2:F1:79:ALA:HA	2:F1:82:ILE:HG12	1.90	0.53
3:L1:117:ARG:NH2	5:j3:242:PRO:HA	2.23	0.53
2:F2:29:ALA:O	2:F2:32:THR:HG22	2.09	0.53
1:M2:50:ILE:HA	1:M2:136:VAL:CG1	2.35	0.53
2:R2:83:ARG:NH1	2:R2:84:ASP:OD1	2.42	0.53
2:T2:61:ILE:HG13	2:T2:62:TYR:CD2	2.43	0.53
1:m2:132:ALA:O	1:m2:136:VAL:HG23	2.08	0.53
2:r2:73:TYR:O	2:r2:77:ARG:HB2	2.08	0.53
2:r2:96:MET:HA	2:r2:152:TYR:CE2	2.44	0.53
2:J3:83:ARG:HD2	4:i3:38:PHE:CE2	2.42	0.53
2:T3:50:THR:HG22	2:T3:54:GLU:OE2	2.09	0.53
1:e3:91:LEU:HD11	1:e3:107:ILE:HG21	1.89	0.53
5:j3:15:ARG:HD3	5:j3:16:LEU:H	1.73	0.53
5:j3:205:GLU:O	5:j3:208:LYS:HG3	2.08	0.53
5:k3:42:GLN:HA	5:k3:45:GLN:OE1	2.07	0.53
5:k3:386:ILE:HD11	5:k3:393:MET:HB2	1.90	0.53
1:C1:122:PRO:O	1:C1:126:VAL:HG23	2.08	0.53
2:D1:5:ILE:HG12	2:D1:27:LEU:CD1	2.39	0.53
2:F1:60:LEU:HD22	2:F1:72:MET:HE1	1.90	0.53
1:H1:58:LEU:HD22	1:H1:129:GLY:HA3	1.91	0.53
2:J1:6:THR:CG2	3:L1:5:LEU:HD11	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M1:101:CYC:HMA1	6:M1:101:CYC:HB	1.73	0.53
1:A2:105:GLU:HA	1:A2:109:ILE:CG1	2.39	0.53
1:E2:25:ARG:HH21	1:O2:6:LYS:HE2	1.73	0.53
1:G2:154:ASP:OD2	2:T2:46:SER:HB3	2.09	0.53
1:I2:50:ILE:HG12	1:I2:136:VAL:HG12	1.91	0.53
2:J2:81:CYS:O	2:J2:85:MET:HG2	2.08	0.53
2:R2:5:ILE:HG12	2:R2:27:LEU:CD1	2.38	0.53
2:R2:132:ALA:O	2:R2:136:VAL:HG13	2.08	0.53
1:S2:39:ILE:HG12	1:S2:145:ASP:HB3	1.90	0.53
2:V2:71:MEN:HB2	6:V2:201:CYC:OC	2.08	0.53
1:W2:5:THR:HG23	2:X2:3:ASP:OD2	2.07	0.53
1:Y2:111:GLY:HA2	1:Y2:114:GLU:OE1	2.09	0.53
1:g2:90:ARG:O	1:g2:93:THR:HG22	2.08	0.53
1:o2:80:LEU:HD23	5:k3:955:LEU:HD13	1.89	0.53
1:q2:22:GLU:O	1:q2:26:ILE:HG13	2.09	0.53
1:q2:129:GLY:O	1:q2:133:MET:HG2	2.09	0.53
1:u2:23:LEU:HD12	2:v2:38:VAL:CG1	2.37	0.53
2:B3:131:GLN:HE22	2:B3:134:LYS:HE2	1.73	0.53
1:C3:48:GLU:OE2	1:C3:48:GLU:N	2.39	0.53
2:L3:114:GLU:OE1	2:L3:114:GLU:N	2.26	0.53
2:R3:24:LEU:O	2:R3:27:LEU:HG	2.09	0.53
4:z3:6:LYS:HB3	4:z3:55:LYS:HB2	1.90	0.53
5:k3:149:GLY:O	5:k3:153:MET:HB2	2.09	0.53
5:k3:656:GLY:O	5:k3:660:VAL:HG23	2.08	0.53
1:A1:62:ARG:O	1:A1:65:VAL:HG22	2.09	0.53
2:D1:131:GLN:O	2:D1:135:GLU:HG2	2.08	0.53
1:I2:37:LEU:HD21	2:J2:27:LEU:HD13	1.90	0.53
2:N2:76:ARG:NE	1:O2:106:GLU:OE1	2.33	0.53
6:b2:201:CYC:NB	6:b2:201:CYC:HMA1	2.24	0.53
1:c2:54:ALA:HB2	1:c2:133:MET:HA	1.90	0.53
1:m2:94:TYR:CB	1:m2:104:ILE:HD11	2.38	0.53
1:C3:103:PRO:O	1:C3:107:ILE:HG12	2.09	0.53
1:E3:62:ARG:NH2	1:E3:125:ALA:HA	2.24	0.53
2:L3:111:GLY:HA2	2:L3:114:GLU:OE2	2.08	0.53
2:T3:75:THR:HG22	1:U3:115:MET:CE	2.38	0.53
4:i3:11:ILE:HD13	4:i3:49:GLY:HA3	1.90	0.53
5:j3:519:GLU:HA	5:j3:522:ASN:O	2.08	0.53
1:A1:137:ALA:O	1:A1:141:LEU:HB2	2.08	0.53
2:B1:30:TYR:HA	2:B1:33:THR:HG23	1.90	0.53
1:C1:64:ASP:CG	1:Y3:64:ASP:HB2	2.33	0.53
2:D1:40:ALA:O	2:D1:44:ILE:HG22	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M1:4:TYR:HD1	4:M1:33:PRO:HA	1.73	0.53
6:C2:201:CYC:HMD1	6:C2:201:CYC:NC	2.19	0.53
2:D2:78:TYR:O	2:D2:82:ILE:HG23	2.08	0.53
1:M2:62:ARG:O	1:M2:65:VAL:HG22	2.09	0.53
1:Q2:104:ILE:HG22	1:Q2:109:ILE:HD13	1.90	0.53
1:S2:109:ILE:HD12	1:S2:110:ILE:N	2.24	0.53
1:U2:112:VAL:O	1:U2:115:MET:HB3	2.08	0.53
1:W2:109:ILE:HD12	1:W2:159:ALA:HB3	1.90	0.53
1:Y2:8:ILE:CD1	2:Z2:98:ALA:HB2	2.37	0.53
2:h2:91:TYR:OH	4:y2:21:ARG:NH2	2.36	0.53
1:k2:8:ILE:CG2	2:l2:1:MET:HE1	2.39	0.53
2:l2:61:ILE:HA	2:l2:66:THR:CG2	2.38	0.53
2:r2:75:THR:HG22	1:s2:115:MET:HG2	1.90	0.53
2:v2:39:ARG:O	2:v2:43:VAL:HG23	2.08	0.53
2:v2:145:ALA:HA	2:v2:148:GLU:OE2	2.08	0.53
4:z2:37:TRP:CZ2	4:z2:41:GLN:HG3	2.44	0.53
1:A3:12:ASP:OD2	2:B3:107:ARG:NH1	2.42	0.53
1:A3:115:MET:HE2	2:F3:75:THR:HA	1.89	0.53
1:C3:22:GLU:HA	1:C3:25:ARG:NH1	2.24	0.53
2:H3:40:ALA:HB3	2:H3:96:MET:HE1	1.90	0.53
2:R3:127:VAL:HG21	2:R3:161:SER:OG	2.09	0.53
2:g3:41:ALA:HB2	2:g3:97:LEU:HD13	1.90	0.53
2:g3:85:MET:CE	6:g3:201:CYC:HBC1	2.39	0.53
5:j3:261:ILE:HD13	2:h3:76:ARG:HA	1.91	0.53
1:A1:89:LEU:O	1:A1:93:THR:HG23	2.08	0.53
2:B1:134:LYS:HA	2:B1:137:VAL:HG22	1.91	0.53
1:C1:119:LEU:CD1	6:C1:201:CYC:HBD1	2.38	0.53
2:D1:57:ALA:HA	2:D1:61:ILE:CG2	2.39	0.53
2:G1:105:ASP:O	2:G1:110:ASN:N	2.39	0.53
3:K1:127:ILE:CD1	3:K1:160:MET:HG3	2.39	0.53
3:L1:127:ILE:HD11	3:L1:160:MET:O	2.08	0.53
2:H2:87:TYR:OH	5:j3:855:GLY:HA3	2.07	0.53
1:I2:36:ARG:NH1	1:I2:99:GLY:HA2	2.23	0.53
1:I2:77:MET:HE2	1:I2:77:MET:H	1.73	0.53
2:R2:73:TYR:O	2:R2:77:ARG:HB2	2.08	0.53
2:T2:43:VAL:O	2:T2:46:SER:OG	2.20	0.53
2:T2:95:ALA:HB2	2:T2:104:LEU:HG	1.90	0.53
1:a2:134:LYS:HG3	1:a2:153:PHE:CB	2.38	0.53
1:e2:91:LEU:HD13	1:e2:104:ILE:HG23	1.90	0.53
6:g2:201:CYC:HMD1	6:g2:201:CYC:NC	2.20	0.53
2:n2:74:THR:OG1	2:n2:77:ARG:HG3	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K3:201:CYC:HMD1	6:K3:201:CYC:NC	2.20	0.53
1:O3:26:ILE:O	1:O3:30:VAL:HG22	2.09	0.53
1:Q3:89:LEU:O	1:Q3:93:THR:HG23	2.09	0.53
1:S3:93:THR:O	1:S3:97:VAL:HG23	2.08	0.53
5:j3:450:ARG:NH1	5:j3:452:VAL:O	2.34	0.53
5:k3:31:GLU:OE2	5:k3:33:ARG:NE	2.27	0.53
5:k3:586:LEU:HD21	5:k3:610:SER:CB	2.39	0.53
2:B1:76:ARG:HH21	5:k3:288:LEU:HD11	1.74	0.53
2:G1:132:ALA:HA	2:G1:135:GLU:OE1	2.09	0.53
2:I1:96:MET:HA	2:I1:152:TYR:CE2	2.43	0.53
3:L1:89:TYR:O	3:L1:92:ILE:HG13	2.08	0.53
2:B2:132:ALA:O	2:B2:136:VAL:HG23	2.09	0.53
6:H2:201:CYC:HMA1	6:H2:201:CYC:NB	2.23	0.53
1:I2:132:ALA:O	1:I2:136:VAL:HG23	2.08	0.53
2:L2:57:ALA:HA	2:L2:61:ILE:HD11	1.89	0.53
1:O2:132:ALA:O	1:O2:136:VAL:HG23	2.09	0.53
2:P2:96:MET:HE3	2:P2:97:LEU:N	2.23	0.53
6:W2:201:CYC:HMA3	6:W2:201:CYC:HB	1.73	0.53
1:Y2:110:ILE:O	1:Y2:110:ILE:HD12	2.08	0.53
2:Z2:76:ARG:HB2	1:a2:110:ILE:CD1	2.38	0.53
1:c2:43:LEU:HD11	1:c2:137:ALA:HB1	1.91	0.53
2:d2:61:ILE:HG13	2:d2:62:TYR:CD2	2.44	0.53
1:k2:68:PRO:HA	1:k2:73:TYR:CD2	2.44	0.53
1:u2:67:SER:O	1:u2:73:TYR:HB2	2.08	0.53
4:x2:30:LYS:NZ	4:x2:40:GLU:OE2	2.36	0.53
2:D3:35:ALA:O	2:D3:39:ARG:HG2	2.08	0.53
1:K3:105:GLU:HA	1:K3:109:ILE:HB	1.91	0.53
1:O3:35:ARG:O	1:O3:39:ILE:HG12	2.08	0.53
2:P3:132:ALA:HA	2:P3:135:GLU:OE2	2.08	0.53
6:S3:201:CYC:HMD1	6:S3:201:CYC:NC	2.19	0.53
5:j3:85:SER:OG	5:j3:87:ARG:HG2	2.07	0.53
5:j3:410:GLU:O	5:j3:414:ILE:HG12	2.08	0.53
5:k3:820:HIS:NE2	5:k3:859:ILE:HD11	2.24	0.53
1:A1:77:MET:HE2	1:A1:77:MET:HA	1.91	0.53
1:C1:38:ARG:O	1:C1:41:GLN:HG2	2.09	0.53
2:D1:75:THR:OG1	3:K1:115:MET:HE2	2.09	0.53
2:I1:75:THR:HG21	3:L1:112:ILE:HD13	1.90	0.53
3:K1:62:ARG:NH1	3:K1:125:ALA:HB2	2.23	0.53
2:F2:57:ALA:HA	2:F2:61:ILE:HD11	1.89	0.53
2:F2:60:LEU:HD11	2:F2:85:MET:HE3	1.90	0.53
6:I2:201:CYC:HMA3	6:I2:201:CYC:HB	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J2:64:ASP:OD1	5:j3:732:ARG:NH2	2.39	0.53
2:N2:61:ILE:HG13	2:N2:62:TYR:CD2	2.43	0.53
2:P2:105:ASP:OD2	2:P2:155:TYR:OH	2.12	0.53
1:Q2:57:GLN:OE1	1:Q2:57:GLN:N	2.42	0.53
1:S2:126:VAL:HG22	6:S2:201:CYC:H3C	1.91	0.53
1:U2:68:PRO:HA	1:U2:73:TYR:CD2	2.44	0.53
2:Z2:76:ARG:HB2	1:a2:110:ILE:HD11	1.91	0.53
1:a2:98:ALA:HB2	2:b2:9:ILE:CD1	2.39	0.53
1:c2:46:ALA:O	1:c2:50:ILE:HG12	2.09	0.53
1:k2:38:ARG:HA	1:k2:41:GLN:CD	2.34	0.53
1:m2:5:THR:OG1	2:n2:1:MET:HE1	2.09	0.53
1:m2:17:TYR:CE2	2:n2:90:ARG:HA	2.44	0.53
1:m2:98:ALA:HB2	2:n2:9:ILE:CD1	2.39	0.53
2:p2:107:ARG:NE	5:k3:978:LEU:HD21	2.23	0.53
1:q2:64:ASP:OD1	1:q2:64:ASP:N	2.42	0.53
4:x2:33:PRO:HB2	4:x2:35:GLU:OE1	2.07	0.53
1:A3:73:TYR:O	1:A3:77:MET:HG3	2.08	0.53
1:C3:104:ILE:HD11	1:C3:155:TYR:CE2	2.44	0.53
1:C3:122:PRO:HG2	1:C3:125:ALA:HB3	1.91	0.53
2:H3:95:ALA:HB2	2:H3:104:LEU:HG	1.90	0.53
2:J3:132:ALA:O	2:J3:136:VAL:HG23	2.09	0.53
6:J3:201:CYC:O2D	4:i3:3:ARG:NH1	2.42	0.53
1:K3:4:LEU:HD12	1:K3:4:LEU:H	1.74	0.53
6:Q3:201:CYC:HMD1	6:Q3:201:CYC:NC	2.20	0.53
2:b3:85:MET:CE	2:b3:133:MET:HE3	2.39	0.53
6:g3:201:CYC:HMA1	6:g3:201:CYC:NB	2.24	0.53
5:j3:557:VAL:O	5:j3:558:VAL:HG12	2.09	0.53
5:k3:885:GLN:O	5:k3:887:PRO:HD3	2.09	0.53
5:k3:1025:LEU:HD11	5:k3:1035:PHE:CG	2.44	0.53
1:A1:122:PRO:O	1:A1:126:VAL:HG23	2.09	0.53
2:D1:24:LEU:HB3	2:D1:28:LYS:HZ3	1.74	0.53
2:D1:78:TYR:CD1	3:K1:115:MET:HG3	2.44	0.53
2:G1:127:VAL:O	2:G1:131:GLN:HG2	2.09	0.53
2:I1:4:ALA:O	2:I1:8:VAL:HG12	2.08	0.53
1:G2:44:THR:HG22	2:H2:18:TYR:CD2	2.44	0.53
6:G2:201:CYC:HMD1	6:G2:201:CYC:NC	2.20	0.53
1:O2:142:SER:O	1:O2:146:ALA:N	2.35	0.53
2:R2:78:TYR:O	2:R2:82:ILE:HG23	2.07	0.53
1:S2:37:LEU:HD22	2:T2:24:LEU:CD2	2.38	0.53
2:X2:65:LEU:C	2:X2:72:MET:HB2	2.34	0.53
2:b2:132:ALA:O	2:b2:136:VAL:HG23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f2:126:THR:O	2:f2:130:ILE:HG22	2.08	0.53
1:m2:64:ASP:HA	1:m2:67:SER:OG	2.08	0.53
2:p2:95:ALA:HB2	2:p2:104:LEU:HD21	1.91	0.53
1:u2:4:LEU:HB2	2:v2:3:ASP:OD2	2.09	0.53
1:u2:34:GLU:OE2	1:u2:34:GLU:N	2.42	0.53
1:I3:4:LEU:HD23	2:J3:3:ASP:CB	2.38	0.53
2:b3:137:VAL:O	2:b3:141:VAL:HG22	2.09	0.53
2:g3:123:ILE:HA	2:g3:126:THR:HG22	1.90	0.53
4:i3:60:VAL:CG1	4:i3:63:ALA:HB2	2.36	0.53
5:j3:184:LEU:HD11	5:j3:242:PRO:HD3	1.91	0.53
5:j3:519:GLU:HB2	5:j3:684:TYR:OH	2.08	0.53
6:j3:1205:CYC:HMA1	6:j3:1205:CYC:NB	2.23	0.53
5:k3:190:LEU:HB3	5:k3:194:CYS:SG	2.49	0.53
1:A1:127:ALA:O	1:A1:131:ARG:HG3	2.08	0.53
2:B1:126:THR:HG22	6:k3:1201:CYC:HBC3	1.91	0.53
1:E1:132:ALA:O	1:E1:136:VAL:HG23	2.09	0.53
2:G1:1:MET:SD	2:G1:103:ILE:HB	2.49	0.53
1:H1:36:ARG:NH1	1:H1:99:GLY:HA2	2.24	0.53
6:J1:201:CYC:HMD3	6:J1:201:CYC:HC	1.73	0.53
3:L1:62:ARG:HH11	3:L1:125:ALA:HB2	1.73	0.53
2:H2:76:ARG:HB2	1:I2:110:ILE:HG13	1.90	0.53
1:I2:16:ARG:O	2:J2:94:TYR:OH	2.27	0.53
2:L2:73:TYR:O	2:L2:77:ARG:HB2	2.09	0.53
1:Q2:35:ARG:HH22	1:Q2:144:ASP:HB2	1.74	0.53
1:U2:122:PRO:HG2	1:U2:125:ALA:HB3	1.91	0.53
1:W2:75:GLU:OE1	1:W2:75:GLU:N	2.38	0.53
1:g2:56:ASP:O	1:g2:60:GLN:HG2	2.08	0.53
1:o2:4:LEU:HD21	2:p2:30:TYR:CZ	2.44	0.53
2:r2:147:LYS:O	2:r2:151:ILE:HG23	2.08	0.53
2:J3:12:TYR:CE2	2:J3:23:ALA:HB2	2.44	0.53
1:K3:50:ILE:HA	1:K3:136:VAL:CG1	2.39	0.53
2:d3:65:LEU:HB3	2:d3:72:MET:CG	2.39	0.53
5:j3:190:LEU:O	5:j3:194:CYS:HB2	2.08	0.53
5:k3:776:PHE:HA	5:k3:819:PHE:CE2	2.43	0.53
2:h3:148:GLU:HA	2:h3:151:ILE:CD1	2.38	0.53
1:C1:140:LEU:HD23	1:C1:141:LEU:HD23	1.91	0.52
2:G1:83:ARG:HD3	2:G1:87:TYR:CE2	2.44	0.52
1:A2:101:VAL:HG12	1:A2:104:ILE:HD11	1.91	0.52
2:H2:96:MET:HA	2:H2:152:TYR:CE2	2.44	0.52
1:I2:68:PRO:HA	1:I2:73:TYR:CD2	2.45	0.52
2:T2:75:THR:OG1	1:U2:110:ILE:O	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V2:24:LEU:CD2	2:V2:27:LEU:HD21	2.39	0.52
1:Y2:59:PHE:HZ	1:Y2:78:THR:HG23	1.74	0.52
1:i2:6:LYS:HE2	1:i2:100:ASP:OD2	2.09	0.52
1:i2:12:ASP:HB3	4:y2:46:LYS:NZ	2.24	0.52
2:j2:73:TYR:O	2:j2:77:ARG:HB2	2.09	0.52
2:l2:1:MET:CE	2:l2:103:ILE:HD12	2.39	0.52
1:q2:34:GLU:N	1:q2:34:GLU:OE2	2.39	0.52
1:u2:105:GLU:HA	1:u2:109:ILE:CG1	2.38	0.52
2:v2:130:ILE:HA	2:v2:133:MET:CE	2.38	0.52
2:F3:83:ARG:HA	2:F3:86:ASP:OD2	2.08	0.52
1:K3:97:VAL:HG11	2:L3:27:LEU:HD13	1.90	0.52
1:e3:105:GLU:OE1	1:e3:155:TYR:OH	2.27	0.52
5:j3:184:LEU:CD1	5:j3:242:PRO:HD3	2.40	0.52
5:j3:197:SER:O	5:j3:201:VAL:HG13	2.09	0.52
5:j3:237:ASP:HB3	5:j3:238:ARG:CZ	2.39	0.52
5:k3:593:LEU:HD12	5:k3:603:PHE:CG	2.44	0.52
1:E1:36:ARG:HA	1:E1:39:ILE:HD12	1.91	0.52
1:H1:57:GLN:HA	1:H1:60:GLN:CD	2.33	0.52
2:J1:76:ARG:NE	4:M1:67:VAL:HG11	2.24	0.52
4:z1:29:THR:N	5:k3:277:ILE:HD13	2.25	0.52
2:D2:1:MET:CE	2:D2:103:ILE:HD12	2.39	0.52
1:S2:67:SER:O	1:S2:73:TYR:HB2	2.09	0.52
2:X2:64:ASP:HA	2:X2:67:ARG:HE	1.74	0.52
2:Z2:16:GLY:HA3	2:d2:68:PRO:HG2	1.92	0.52
6:i2:201:CYC:HMD1	6:i2:201:CYC:NC	2.20	0.52
2:j2:61:ILE:HG13	2:j2:62:TYR:CD2	2.45	0.52
2:l2:12:TYR:CE1	2:l2:23:ALA:HB2	2.45	0.52
2:r2:12:TYR:CZ	2:r2:23:ALA:HB2	2.44	0.52
2:J3:28:LYS:O	2:J3:32:THR:HG23	2.08	0.52
6:O3:201:CYC:HMD1	6:O3:201:CYC:NC	2.20	0.52
1:Q3:134:LYS:HE3	1:Q3:150:GLY:CA	2.38	0.52
1:Y3:68:PRO:HA	1:Y3:73:TYR:CD2	2.44	0.52
2:d3:67:ARG:HG3	2:d3:68:PRO:HD2	1.91	0.52
4:i3:24:GLN:NE2	5:j3:541:THR:HA	2.24	0.52
5:k3:852:GLY:O	5:k3:856:ARG:NH1	2.43	0.52
2:h3:4:ALA:O	2:h3:8:VAL:HG23	2.09	0.52
2:h3:96:MET:HB2	2:h3:152:TYR:HD2	1.74	0.52
2:h3:96:MET:HB2	2:h3:152:TYR:CD2	2.45	0.52
2:F1:132:ALA:O	2:F1:136:VAL:HG23	2.09	0.52
2:F1:137:VAL:O	2:F1:141:VAL:HG22	2.10	0.52
1:a2:130:VAL:HG21	1:a2:156:LEU:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b2:78:TYR:O	2:b2:82:ILE:HG23	2.09	0.52
1:k2:111:GLY:HA2	1:k2:114:GLU:OE1	2.09	0.52
2:n2:61:ILE:HG13	2:n2:62:TYR:CD2	2.44	0.52
2:v2:134:LYS:NZ	2:v2:154:ASP:OD1	2.29	0.52
2:D3:105:ASP:OD2	2:D3:155:TYR:OH	2.15	0.52
1:I3:39:ILE:O	1:I3:43:LEU:HD23	2.09	0.52
2:L3:15:GLN:CG	2:L3:17:LYS:HB2	2.39	0.52
1:U3:134:LYS:HE2	1:U3:150:GLY:CA	2.39	0.52
1:W3:47:ARG:HD3	1:W3:86:ASP:OD1	2.09	0.52
2:f3:85:MET:O	2:f3:133:MET:HE1	2.08	0.52
2:f3:85:MET:HE3	2:f3:133:MET:HE3	1.91	0.52
5:j3:187:ARG:HD3	5:j3:237:ASP:OD1	2.10	0.52
5:j3:269:LEU:HD11	5:j3:422:TYR:CD1	2.45	0.52
2:h3:65:LEU:HD21	6:h3:201:CYC:HMC2	1.91	0.52
2:I1:107:ARG:HD3	4:M1:21:ARG:NH2	2.24	0.52
2:J1:114:GLU:OE1	2:J1:114:GLU:N	2.42	0.52
1:G2:13:ALA:CB	5:j3:816:ARG:HD2	2.39	0.52
1:S2:62:ARG:O	1:S2:65:VAL:HG22	2.09	0.52
1:S2:82:LEU:HA	1:S2:85:LEU:CD2	2.39	0.52
2:X2:132:ALA:O	2:X2:136:VAL:HG13	2.10	0.52
2:d2:12:TYR:CZ	2:d2:23:ALA:HB2	2.45	0.52
2:d2:78:TYR:O	2:d2:82:ILE:HG23	2.10	0.52
2:h2:76:ARG:HD3	1:i2:110:ILE:HD11	1.91	0.52
1:k2:122:PRO:HB2	1:k2:125:ALA:CB	2.39	0.52
1:m2:37:LEU:HD21	2:n2:27:LEU:HD13	1.90	0.52
2:n2:119:LEU:HD11	6:k3:1205:CYC:HAA2	1.91	0.52
1:q2:9:VAL:HG23	2:r2:1:MET:HE2	1.92	0.52
2:D3:12:TYR:CE2	2:D3:23:ALA:HB2	2.43	0.52
1:E3:130:VAL:CG2	1:E3:160:MET:HE1	2.40	0.52
1:G3:50:ILE:HA	1:G3:136:VAL:CG1	2.37	0.52
2:H3:61:ILE:HG13	2:H3:62:TYR:CD2	2.44	0.52
1:K3:68:PRO:HA	1:K3:73:TYR:CD2	2.45	0.52
1:Y3:132:ALA:O	1:Y3:136:VAL:HG23	2.09	0.52
1:c3:148:GLU:HA	1:c3:151:PHE:CD2	2.44	0.52
5:j3:1016:LEU:HB3	5:j3:1044:ASN:ND2	2.25	0.52
5:k3:1082:GLN:O	5:k3:1086:THR:HG23	2.09	0.52
5:k3:1106:PHE:CE1	5:k3:1112:PRO:HA	2.44	0.52
2:D1:105:ASP:OD2	2:D1:155:TYR:OH	2.20	0.52
1:H1:37:LEU:HD12	1:H1:41:GLN:HE22	1.73	0.52
1:H1:50:ILE:HA	1:H1:136:VAL:CG1	2.39	0.52
3:K1:155:TYR:HB2	1:a3:20:PRO:CG	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:33:GLY:O	1:A2:37:LEU:HG	2.09	0.52
1:S2:90:ARG:HG2	1:S2:94:TYR:CE2	2.44	0.52
2:V2:60:LEU:HD13	2:V2:72:MET:HE2	1.90	0.52
1:k2:81:CYS:O	1:k2:85:LEU:HD23	2.10	0.52
6:k2:201:CYC:HMD1	6:k2:201:CYC:NC	2.20	0.52
1:o2:23:LEU:HD12	2:p2:38:VAL:CB	2.38	0.52
2:H3:22:ALA:O	2:H3:26:LYS:HD2	2.09	0.52
2:N3:151:ILE:HD11	2:N3:152:TYR:CZ	2.45	0.52
1:S3:22:GLU:O	1:S3:26:ILE:HG13	2.09	0.52
1:S3:106:GLU:O	2:X3:76:ARG:NH1	2.42	0.52
2:T3:102:SER:O	2:T3:106:GLU:HG3	2.10	0.52
1:W3:134:LYS:HD3	1:W3:153:PHE:HB2	1.90	0.52
1:Y3:53:GLN:O	1:Y3:57:GLN:HG2	2.08	0.52
5:j3:426:LEU:HA	5:j3:431:GLN:CG	2.40	0.52
5:j3:434:TRP:HA	2:h3:110:ASN:O	2.09	0.52
5:j3:630:ILE:HG22	5:j3:664:MET:CE	2.35	0.52
5:k3:776:PHE:HB3	5:k3:780:ILE:CD1	2.40	0.52
6:k3:1205:CYC:HMA1	6:k3:1205:CYC:NB	2.24	0.52
1:C1:6:LYS:HD2	1:C1:100:ASP:OD2	2.09	0.52
1:E1:91:LEU:HD21	1:E1:107:ILE:HG21	1.92	0.52
2:G1:65:LEU:O	2:G1:72:MET:HB2	2.10	0.52
1:H1:23:LEU:O	1:H1:27:LYS:HE3	2.08	0.52
4:M1:38:PHE:HB3	5:j3:390:GLN:OE1	2.10	0.52
1:A2:34:GLU:OE2	1:A2:34:GLU:N	2.42	0.52
2:B2:72:MET:HE2	2:B2:78:TYR:CE2	2.45	0.52
1:C2:50:ILE:HD11	1:C2:140:LEU:HD12	1.91	0.52
2:D2:158:SER:OG	5:j3:737:MET:HG2	2.09	0.52
2:N2:12:TYR:CZ	2:N2:23:ALA:HB2	2.44	0.52
1:a2:158:GLY:O	1:a2:161:GLN:HB2	2.09	0.52
2:b2:75:THR:HG21	1:c2:112:VAL:HG23	1.92	0.52
1:e2:35:ARG:NH1	1:e2:144:ASP:OD2	2.43	0.52
2:j2:96:MET:HE3	2:j2:97:LEU:N	2.25	0.52
2:t2:114:GLU:OE1	2:t2:114:GLU:N	2.42	0.52
2:F3:3:ASP:N	2:F3:6:THR:OG1	2.40	0.52
2:L3:105:ASP:OD2	2:L3:155:TYR:OH	2.16	0.52
1:S3:102:THR:O	1:S3:106:GLU:HG2	2.09	0.52
2:V3:5:ILE:HG12	2:V3:27:LEU:HD22	1.90	0.52
1:c3:6:LYS:NZ	1:c3:100:ASP:HB3	2.25	0.52
1:c3:68:PRO:HA	1:c3:73:TYR:CD2	2.45	0.52
1:e3:26:ILE:O	1:e3:30:VAL:HG22	2.09	0.52
2:f3:96:MET:HA	2:f3:152:TYR:CE2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:77:VAL:HG22	5:j3:141:GLU:HB3	1.90	0.52
5:j3:776:PHE:HB3	5:j3:780:ILE:CD1	2.40	0.52
5:k3:1051:GLU:HB2	5:k3:1052:PRO:HD3	1.91	0.52
6:k3:1205:CYC:HMA1	6:k3:1205:CYC:HB	1.74	0.52
1:A1:37:LEU:HB3	2:B1:24:LEU:CD2	2.40	0.52
2:B1:38:VAL:HA	2:B1:97:LEU:HD21	1.92	0.52
2:B1:129:GLY:O	2:B1:133:MET:HG3	2.10	0.52
1:C1:7:ALA:HB2	1:C1:25:ARG:HD2	1.92	0.52
1:C1:68:PRO:HA	1:C1:73:TYR:CD2	2.44	0.52
1:E1:62:ARG:O	1:E1:65:VAL:HG22	2.10	0.52
2:G1:131:GLN:O	2:G1:134:LYS:HB3	2.10	0.52
1:A2:97:VAL:HG21	2:B2:19:LEU:HD11	1.92	0.52
2:H2:105:ASP:OD2	2:H2:155:TYR:OH	2.14	0.52
1:K2:105:GLU:HA	1:K2:109:ILE:HD11	1.90	0.52
2:P2:111:GLY:O	2:P2:114:GLU:HG3	2.10	0.52
1:c2:20:PRO:HG3	1:m2:155:TYR:CD2	2.44	0.52
2:f2:61:ILE:HG13	2:f2:62:TYR:CD2	2.45	0.52
2:l2:96:MET:HA	2:l2:152:TYR:CE2	2.44	0.52
1:o2:58:LEU:HD22	1:o2:129:GLY:CA	2.40	0.52
1:o2:105:GLU:HA	1:o2:109:ILE:CG1	2.40	0.52
2:v2:84:ASP:OD2	2:v2:116:TYR:OH	2.20	0.52
4:z2:7:VAL:HG11	4:z2:37:TRP:CZ3	2.44	0.52
2:H3:78:TYR:CG	1:I3:115:MET:HE1	2.45	0.52
1:K3:19:SER:O	1:K3:23:LEU:HD22	2.10	0.52
1:K3:50:ILE:HG12	1:K3:136:VAL:HG12	1.92	0.52
2:L3:71:MEN:O	2:L3:77:ARG:HD2	2.09	0.52
1:c3:64:ASP:N	1:c3:64:ASP:OD1	2.43	0.52
5:j3:197:SER:HA	5:j3:200:ILE:CD1	2.39	0.52
5:k3:57:VAL:HG21	5:k3:172:LEU:HD11	1.91	0.52
5:k3:303:GLN:NE2	5:k3:363:HIS:O	2.38	0.52
5:k3:367:ARG:NH1	5:k3:370:GLU:HG2	2.25	0.52
5:k3:1119:LEU:CD2	5:k3:1120:PRO:HD3	2.39	0.52
1:A1:23:LEU:HD22	1:Y3:151:PHE:CZ	2.45	0.52
2:B1:148:GLU:O	2:B1:151:ILE:HG13	2.09	0.52
2:D1:15:GLN:HB2	2:D1:17:LYS:HG3	1.92	0.52
1:E1:155:TYR:HB2	1:c3:20:PRO:HG3	1.92	0.52
3:K1:109:LEU:CA	3:K1:112:ILE:HD11	2.40	0.52
6:T2:201:CYC:HMD3	6:T2:201:CYC:HC	1.75	0.52
1:W2:64:ASP:HA	1:W2:67:SER:OG	2.10	0.52
2:b2:81:CYS:O	2:b2:85:MET:HE2	2.10	0.52
2:b2:105:ASP:OD2	2:b2:155:TYR:OH	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c2:2:SER:HA	1:c2:100:ASP:HB3	1.91	0.52
1:e2:50:ILE:HG12	1:e2:136:VAL:HG12	1.91	0.52
1:m2:41:GLN:HG2	1:m2:45:GLU:OE2	2.10	0.52
1:m2:62:ARG:O	1:m2:65:VAL:HG22	2.10	0.52
2:p2:130:ILE:O	2:p2:133:MET:HG2	2.09	0.52
1:s2:98:ALA:HB2	2:t2:9:ILE:CD1	2.40	0.52
2:D3:39:ARG:HA	2:D3:39:ARG:CZ	2.40	0.52
1:W3:2:SER:HA	1:W3:100:ASP:OD1	2.10	0.52
2:f3:64:ASP:HA	2:f3:67:ARG:CD	2.40	0.52
5:j3:246:VAL:HG22	5:j3:257:THR:CG2	2.39	0.52
5:j3:765:ASP:O	5:j3:769:THR:HG22	2.09	0.52
5:j3:1062:LEU:HD21	5:j3:1096:ILE:HG12	1.91	0.52
5:k3:184:LEU:O	5:k3:240:ASP:HB2	2.10	0.52
5:k3:952:PHE:CE1	5:k3:953:LEU:HG	2.44	0.52
2:D1:132:ALA:O	2:D1:136:VAL:HG23	2.10	0.52
2:F1:5:ILE:O	2:F1:9:ILE:HG12	2.09	0.52
3:L1:88:TYR:OH	3:L1:116:TYR:OH	2.28	0.52
4:z1:32:VAL:HG21	4:z1:37:TRP:HE3	1.75	0.52
2:D2:75:THR:HG22	1:E2:115:MET:CE	2.39	0.52
2:D2:81:CYS:O	2:D2:85:MET:HG2	2.10	0.52
2:D2:148:GLU:HG3	5:k3:930:LEU:HG	1.92	0.52
1:E2:14:GLU:OE2	1:E2:16:ARG:NH2	2.42	0.52
2:X2:78:TYR:O	2:X2:82:ILE:HG23	2.10	0.52
1:a2:95:GLY:HA3	1:a2:104:ILE:HD11	1.92	0.52
2:h2:78:TYR:O	2:h2:82:ILE:HG23	2.10	0.52
1:q2:44:THR:O	1:q2:47:ARG:HG2	2.10	0.52
1:G3:77:MET:HE1	6:G3:201:CYC:O1D	2.10	0.52
2:P3:12:TYR:OH	2:P3:20:ASP:OD1	2.23	0.52
1:Y3:34:GLU:OE1	1:Y3:34:GLU:N	2.41	0.52
2:Z3:61:ILE:O	5:k3:712:ARG:NH2	2.42	0.52
1:c3:49:ARG:HG3	1:c3:53:GLN:NE2	2.25	0.52
1:c3:142:SER:N	1:c3:145:ASP:OD2	2.43	0.52
1:e3:113:LYS:NZ	1:e3:161:GLN:OXT	2.42	0.52
5:k3:178:ILE:O	5:k3:182:ASN:ND2	2.41	0.52
5:k3:197:SER:HA	5:k3:200:ILE:CD1	2.39	0.52
1:A1:119:LEU:HD22	6:A1:201:CYC:HBD1	1.91	0.52
3:K1:46:ALA:O	3:K1:50:VAL:HG23	2.10	0.52
3:L1:20:VAL:HG21	1:e3:155:TYR:CG	2.45	0.52
1:S2:64:ASP:HA	1:S2:67:SER:OG	2.10	0.52
2:T2:137:VAL:HG21	2:T2:153:PHE:CE2	2.45	0.52
2:V2:24:LEU:O	2:V2:27:LEU:HG	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:W2:201:CYC:HMD1	6:W2:201:CYC:NC	2.20	0.52
1:Y2:132:ALA:O	1:Y2:136:VAL:HG23	2.10	0.52
1:c2:20:PRO:HD2	1:m2:101:VAL:HB	1.91	0.52
1:c2:97:VAL:CG2	2:d2:9:ILE:HD11	2.39	0.52
1:k2:132:ALA:O	1:k2:136:VAL:HG23	2.10	0.52
1:o2:80:LEU:CD2	5:k3:955:LEU:HD13	2.39	0.52
1:u2:83:ARG:NH2	1:u2:84:ASP:OD1	2.26	0.52
4:x2:24:GLN:HB2	5:k3:1109:ASP:OD2	2.09	0.52
1:C3:81:CYS:O	1:C3:85:LEU:HG	2.09	0.52
1:E3:50:ILE:HA	1:E3:136:VAL:CG1	2.38	0.52
1:K3:17:TYR:HD2	2:L3:45:SER:HA	1.75	0.52
2:V3:96:MET:HA	2:V3:152:TYR:CE2	2.45	0.52
1:Y3:62:ARG:O	1:Y3:65:VAL:HG22	2.09	0.52
2:g3:137:VAL:HG21	2:g3:153:PHE:CE2	2.45	0.52
5:k3:67:ILE:CD1	5:k3:209:ASN:HB3	2.40	0.52
5:k3:426:LEU:HA	5:k3:431:GLN:CG	2.40	0.52
2:B1:37:ARG:HB3	2:B1:96:MET:SD	2.50	0.51
1:C1:40:ALA:O	1:C1:44:THR:HG23	2.10	0.51
2:D1:112:LEU:HG	2:D1:116:TYR:CE2	2.45	0.51
2:G1:85:MET:HE3	2:G1:133:MET:CE	2.38	0.51
3:K1:59:PHE:HB3	3:K1:66:ASN:ND2	2.24	0.51
2:B2:87:TYR:OH	5:k3:855:GLY:HA3	2.09	0.51
1:E2:37:LEU:HD22	2:F2:24:LEU:HD22	1.92	0.51
1:M2:101:VAL:HA	1:M2:104:ILE:HD12	1.92	0.51
2:P2:12:TYR:OH	2:P2:20:ASP:OD1	2.24	0.51
1:Q2:126:VAL:HG22	6:Q2:201:CYC:H3C	1.92	0.51
6:S2:201:CYC:O2A	2:X2:66:THR:HG21	2.10	0.51
2:V2:11:ASN:O	2:V2:14:VAL:HG12	2.10	0.51
1:a2:72:ALA:HA	1:a2:77:MET:HB3	1.92	0.51
1:c2:7:ALA:HB1	1:c2:22:GLU:CG	2.41	0.51
1:e2:50:ILE:HA	1:e2:136:VAL:CG1	2.37	0.51
1:o2:50:ILE:HG23	1:o2:136:VAL:HG21	1.92	0.51
2:p2:15:GLN:HG2	5:k3:961:GLY:O	2.09	0.51
2:p2:24:LEU:HA	2:p2:27:LEU:HD12	1.92	0.51
1:q2:91:LEU:HB3	1:q2:104:ILE:HD13	1.92	0.51
1:C3:74:GLY:O	1:C3:78:THR:HG22	2.09	0.51
2:D3:75:THR:HG21	1:E3:112:VAL:HG23	1.92	0.51
2:F3:91:TYR:CE1	2:F3:107:ARG:HD2	2.45	0.51
2:F3:119:LEU:HD21	5:k3:546:PHE:CD2	2.45	0.51
1:K3:62:ARG:HH22	1:K3:125:ALA:HA	1.75	0.51
2:N3:2:GLN:OE1	2:N3:10:ASN:ND2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b3:132:ALA:O	2:b3:136:VAL:HG23	2.09	0.51
2:f3:35:ALA:HB1	2:f3:39:ARG:NH2	2.25	0.51
5:j3:261:ILE:HD12	5:j3:262:TYR:N	2.25	0.51
5:j3:335:ARG:O	5:j3:339:LYS:HG2	2.09	0.51
5:j3:769:THR:O	5:j3:773:VAL:HG23	2.10	0.51
5:k3:52:ARG:O	5:k3:56:ILE:HG13	2.10	0.51
5:k3:519:GLU:HB2	5:k3:684:TYR:OH	2.10	0.51
2:h3:37:ARG:HG2	2:h3:96:MET:O	2.09	0.51
2:F1:60:LEU:HB3	2:F1:72:MET:CE	2.41	0.51
2:F1:107:ARG:HA	4:z1:45:GLN:HE21	1.74	0.51
2:G1:75:THR:HG22	1:H1:115:MET:HG3	1.93	0.51
2:I1:107:ARG:HD3	4:M1:21:ARG:HH22	1.75	0.51
3:K1:131:ARG:NH1	3:K1:157:ILE:HD13	2.25	0.51
1:A2:22:GLU:O	1:A2:26:ILE:HG13	2.10	0.51
1:A2:76:LYS:HG3	1:A2:77:MET:HE2	1.93	0.51
1:E2:26:ILE:O	1:E2:30:VAL:HG13	2.10	0.51
2:R2:116:TYR:HB3	2:R2:121:VAL:HB	1.93	0.51
1:S2:34:GLU:HA	2:T2:28:LYS:NZ	2.25	0.51
2:T2:12:TYR:OH	2:T2:20:ASP:OD1	2.21	0.51
2:T2:84:ASP:OD2	2:T2:116:TYR:OH	2.26	0.51
2:X2:36:VAL:O	2:X2:39:ARG:HG3	2.10	0.51
1:c2:135:ASN:HA	1:c2:138:THR:HG22	1.93	0.51
2:d2:57:ALA:HA	2:d2:61:ILE:HD11	1.92	0.51
1:g2:122:PRO:HG2	1:g2:125:ALA:HB3	1.92	0.51
1:i2:36:ARG:NH1	1:i2:152:TYR:OH	2.23	0.51
1:s2:27:LYS:HZ3	2:t2:35:ALA:HA	1.75	0.51
2:t2:74:THR:OG1	2:t2:77:ARG:HG3	2.10	0.51
6:y2:101:CYC:HMA1	6:y2:101:CYC:NB	2.25	0.51
2:L3:131:GLN:O	2:L3:135:GLU:HG2	2.10	0.51
1:M3:22:GLU:O	1:M3:26:ILE:HG13	2.11	0.51
1:W3:113:LYS:HE3	1:W3:123:ILE:HD13	1.90	0.51
1:a3:135:ASN:O	1:a3:138:THR:HG22	2.11	0.51
2:d3:61:ILE:O	5:j3:712:ARG:NH2	2.41	0.51
5:j3:367:ARG:NH1	5:j3:370:GLU:HG2	2.25	0.51
5:j3:820:HIS:ND1	5:j3:859:ILE:HD11	2.25	0.51
5:k3:184:LEU:HD12	5:k3:261:ILE:CG2	2.39	0.51
2:B1:35:ALA:O	2:B1:38:VAL:HG22	2.10	0.51
2:G1:134:LYS:CE	2:G1:150:SER:HB3	2.38	0.51
3:K1:122:PRO:O	3:K1:126:MET:HG2	2.09	0.51
6:M1:101:CYC:HMA1	6:M1:101:CYC:NB	2.26	0.51
1:A2:122:PRO:HG2	1:A2:125:ALA:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G2:22:GLU:O	1:G2:26:ILE:HG13	2.10	0.51
2:R2:148:GLU:O	2:R2:151:ILE:HG12	2.10	0.51
1:U2:142:SER:O	1:U2:146:ALA:N	2.36	0.51
2:X2:64:ASP:HA	2:X2:67:ARG:NE	2.25	0.51
1:i2:87:TYR:HB3	6:i2:201:CYC:HBB3	1.91	0.51
1:i2:95:GLY:HA3	1:i2:104:ILE:HD11	1.91	0.51
1:k2:22:GLU:O	1:k2:26:ILE:HG13	2.09	0.51
2:l2:61:ILE:HG13	2:l2:62:TYR:CD2	2.45	0.51
1:q2:107:ILE:HD11	5:j3:1143:LEU:CB	2.40	0.51
1:u2:105:GLU:CD	1:u2:109:ILE:HD11	2.35	0.51
1:I3:2:SER:HA	1:I3:100:ASP:HB3	1.92	0.51
1:S3:116:TYR:CB	1:S3:123:ILE:HD11	2.40	0.51
1:S3:122:PRO:O	1:S3:126:VAL:HG23	2.10	0.51
2:Z3:22:ALA:HA	2:Z3:25:ASP:OD2	2.10	0.51
2:Z3:73:TYR:O	2:Z3:77:ARG:HB2	2.10	0.51
1:a3:18:LEU:HG	2:g3:97:LEU:CD2	2.40	0.51
2:b3:19:LEU:HG	5:k3:172:LEU:CD1	2.40	0.51
1:c3:105:GLU:HA	1:c3:109:ILE:HG12	1.92	0.51
5:j3:73:ASN:OD1	5:j3:82:MET:HE3	2.11	0.51
5:j3:76:PHE:HE1	5:j3:142:PRO:HB2	1.75	0.51
5:j3:586:LEU:HD21	5:j3:610:SER:HB2	1.91	0.51
5:j3:736:GLU:HA	5:j3:739:VAL:CG2	2.40	0.51
5:j3:1106:PHE:CE1	5:j3:1112:PRO:HA	2.45	0.51
5:k3:765:ASP:O	5:k3:769:THR:HG22	2.10	0.51
2:I1:37:ARG:O	2:I1:96:MET:HE1	2.10	0.51
3:K1:48:ASP:O	3:K1:52:LYS:HG3	2.10	0.51
3:L1:117:ARG:HH11	5:j3:239:SER:HA	1.75	0.51
2:N2:114:GLU:HA	2:N2:117:ASN:OD1	2.10	0.51
2:P2:137:VAL:O	2:P2:141:VAL:HG22	2.11	0.51
6:T2:201:CYC:HMA1	6:T2:201:CYC:NB	2.26	0.51
1:Y2:56:ASP:O	1:Y2:60:GLN:HG2	2.11	0.51
2:Z2:61:ILE:HG13	2:Z2:62:TYR:CD2	2.45	0.51
1:e2:88:TYR:HA	1:e2:91:LEU:CD2	2.40	0.51
1:g2:41:GLN:O	1:g2:45:GLU:HG2	2.10	0.51
1:g2:134:LYS:HG3	1:g2:153:PHE:CB	2.41	0.51
1:k2:128:GLU:HA	1:k2:131:ARG:NH1	2.25	0.51
1:q2:103:PRO:O	1:q2:107:ILE:HG12	2.10	0.51
2:t2:131:GLN:NE2	2:t2:157:SER:OG	2.42	0.51
2:v2:44:ILE:HG23	2:v2:89:LEU:HD11	1.93	0.51
2:B3:131:GLN:NE2	2:B3:134:LYS:HE2	2.26	0.51
1:K3:71:ASN:OD1	1:K3:121:THR:HG22	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P3:96:MET:HA	2:P3:152:TYR:CE2	2.45	0.51
2:R3:8:VAL:HA	2:R3:11:ASN:ND2	2.26	0.51
1:S3:49:ARG:HD2	1:S3:140:LEU:HD21	1.92	0.51
1:c3:105:GLU:HA	1:c3:109:ILE:CD1	2.40	0.51
2:d3:62:TYR:OH	6:e3:201:CYC:O1D	2.27	0.51
2:g3:104:LEU:O	2:g3:108:VAL:HG13	2.10	0.51
4:i3:7:VAL:HG11	4:i3:37:TRP:CZ3	2.45	0.51
5:j3:879:ASP:OD1	5:j3:879:ASP:N	2.42	0.51
5:k3:190:LEU:O	5:k3:194:CYS:HB2	2.11	0.51
5:k3:218:ALA:HA	5:k3:221:LYS:HE2	1.92	0.51
5:k3:982:TYR:O	5:k3:1110:ILE:HA	2.11	0.51
1:C1:98:ALA:HB2	2:D1:9:ILE:HD13	1.92	0.51
2:G1:137:VAL:O	2:G1:141:VAL:HG22	2.11	0.51
1:H1:53:GLN:HG3	1:H1:136:VAL:HG22	1.92	0.51
3:L1:40:ALA:HB2	3:L1:96:ILE:CG2	2.41	0.51
1:A2:43:LEU:HD21	1:A2:141:LEU:HD11	1.92	0.51
2:F2:73:TYR:O	2:F2:77:ARG:HB2	2.10	0.51
2:F2:132:ALA:O	2:F2:136:VAL:HG23	2.10	0.51
1:K2:105:GLU:HA	1:K2:109:ILE:CD1	2.41	0.51
2:N2:132:ALA:O	2:N2:136:VAL:HG23	2.11	0.51
6:N2:201:CYC:HMA1	6:N2:201:CYC:NB	2.26	0.51
2:R2:57:ALA:HA	2:R2:61:ILE:HG12	1.92	0.51
1:S2:19:SER:N	1:S2:22:GLU:OE2	2.27	0.51
1:S2:134:LYS:O	1:S2:138:THR:OG1	2.18	0.51
1:o2:116:TYR:CE2	1:o2:126:VAL:HG21	2.46	0.51
1:s2:17:TYR:CE2	2:t2:90:ARG:HA	2.46	0.51
1:s2:22:GLU:HA	1:s2:25:ARG:HG2	1.91	0.51
1:s2:62:ARG:O	1:s2:65:VAL:HG22	2.10	0.51
2:t2:78:TYR:O	2:t2:82:ILE:HG23	2.10	0.51
1:u2:80:LEU:HD23	5:j3:955:LEU:HD13	1.92	0.51
4:z2:21:ARG:HH21	4:z2:23:LEU:HD23	1.74	0.51
2:P3:61:ILE:HG13	2:P3:62:TYR:CD2	2.45	0.51
2:V3:85:MET:HE1	2:V3:129:GLY:CA	2.40	0.51
1:W3:77:MET:HE3	1:W3:77:MET:HA	1.92	0.51
2:g3:84:ASP:OD2	6:g3:201:CYC:HHD	2.10	0.51
5:j3:614:ARG:HB2	5:j3:657:PHE:CE2	2.46	0.51
5:k3:75:ILE:HG13	5:k3:76:PHE:CD1	2.41	0.51
5:k3:547:ARG:O	5:k3:548:SER:OG	2.25	0.51
5:k3:965:GLN:HB3	5:k3:969:VAL:CG1	2.39	0.51
5:k3:1090:ALA:O	5:k3:1093:VAL:HG12	2.10	0.51
1:C1:50:ILE:HG12	1:C1:136:VAL:HG12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G1:61:ILE:HA	2:G1:66:THR:OG1	2.10	0.51
1:H1:39:ILE:HD11	1:H1:145:ASP:CG	2.35	0.51
1:H1:87:TYR:O	1:H1:91:LEU:HD23	2.10	0.51
4:M1:24:GLN:NE2	5:j3:275:THR:HB	2.25	0.51
1:A2:106:GLU:HA	1:A2:110:ILE:HD11	1.92	0.51
2:B2:24:LEU:O	2:B2:27:LEU:HD12	2.11	0.51
1:C2:50:ILE:HG23	1:C2:136:VAL:HB	1.92	0.51
2:F2:61:ILE:HA	2:F2:66:THR:HG21	1.92	0.51
1:G2:24:ASP:OD2	1:S2:36:ARG:NH2	2.44	0.51
1:I2:126:VAL:HG12	1:I2:160:MET:HE1	1.93	0.51
6:S2:201:CYC:HMA1	6:S2:201:CYC:NB	2.24	0.51
1:U2:47:ARG:HD3	2:V2:18:TYR:CE1	2.46	0.51
2:Z2:12:TYR:CZ	2:Z2:23:ALA:HB2	2.46	0.51
1:c2:22:GLU:O	1:c2:26:ILE:HG13	2.11	0.51
2:j2:52:ILE:HD11	2:j2:86:ASP:HA	1.92	0.51
2:l2:51:ILE:HG22	2:l2:133:MET:HG3	1.93	0.51
1:m2:8:ILE:CD1	2:n2:98:ALA:HB2	2.40	0.51
2:n2:47:ASN:HD22	2:n2:140:LEU:HD13	1.76	0.51
1:u2:19:SER:O	1:u2:23:LEU:HD22	2.10	0.51
1:u2:138:THR:OG1	1:u2:146:ALA:HB1	2.11	0.51
2:v2:59:ALA:HA	5:j3:1155:ARG:NH2	2.25	0.51
6:x2:101:CYC:HMA1	6:x2:101:CYC:NB	2.25	0.51
2:B3:20:ASP:O	2:B3:24:LEU:HG	2.11	0.51
6:G3:201:CYC:HMA3	6:G3:201:CYC:HB	1.74	0.51
1:I3:126:VAL:HG12	1:I3:160:MET:HE1	1.91	0.51
1:M3:23:LEU:HD22	2:N3:38:VAL:HG13	1.92	0.51
2:V3:36:VAL:CG1	2:V3:145:ALA:HB2	2.41	0.51
1:c3:49:ARG:CZ	1:c3:140:LEU:HD21	2.40	0.51
1:c3:141:LEU:HB3	1:c3:145:ASP:OD2	2.11	0.51
1:e3:54:ALA:CB	1:e3:133:MET:HG3	2.40	0.51
5:j3:426:LEU:HA	5:j3:431:GLN:HG3	1.92	0.51
5:k3:86:GLU:HA	5:k3:89:LYS:CE	2.40	0.51
5:k3:216:ASP:OD1	5:k3:221:LYS:NZ	2.36	0.51
1:C1:109:ILE:O	1:C1:112:VAL:HG12	2.11	0.51
2:G1:15:GLN:HB2	2:G1:17:LYS:HE3	1.93	0.51
1:H1:112:VAL:O	1:H1:115:MET:HB2	2.10	0.51
6:L1:201:CYC:HMA3	6:L1:201:CYC:NB	2.22	0.51
1:A2:13:ALA:CB	5:k3:816:ARG:HD2	2.41	0.51
1:A2:78:THR:O	1:A2:82:LEU:HG	2.11	0.51
1:C2:5:THR:HG23	2:D2:1:MET:SD	2.50	0.51
2:L2:137:VAL:O	2:L2:141:VAL:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S2:8:ILE:HG12	2:T2:1:MET:HE1	1.91	0.51
1:U2:6:LYS:HA	1:U2:9:VAL:HG12	1.91	0.51
2:X2:148:GLU:O	2:X2:151:ILE:HG12	2.11	0.51
1:Y2:64:ASP:HA	1:Y2:67:SER:OG	2.11	0.51
1:c2:50:ILE:HA	1:c2:136:VAL:CG1	2.40	0.51
2:l2:78:TYR:O	2:l2:82:ILE:HG23	2.11	0.51
1:m2:50:ILE:HG23	1:m2:136:VAL:HB	1.93	0.51
2:n2:78:TYR:O	2:n2:82:ILE:HG23	2.10	0.51
1:o2:51:VAL:HG12	1:o2:82:LEU:CD1	2.41	0.51
1:o2:122:PRO:O	1:o2:126:VAL:HG23	2.11	0.51
1:s2:89:LEU:O	1:s2:93:THR:HG23	2.11	0.51
4:w2:22:GLU:OE2	5:j3:754:LYS:NZ	2.43	0.51
4:y2:63:ALA:HA	4:y2:67:VAL:HG21	1.92	0.51
6:H3:201:CYC:HMA1	6:H3:201:CYC:NB	2.25	0.51
1:K3:74:GLY:O	1:K3:78:THR:HG23	2.10	0.51
2:R3:24:LEU:O	2:R3:28:LYS:HE2	2.11	0.51
1:S3:19:SER:HB3	1:S3:22:GLU:HG3	1.91	0.51
2:V3:132:ALA:O	2:V3:136:VAL:HG23	2.10	0.51
1:W3:22:GLU:O	1:W3:26:ILE:HG13	2.11	0.51
2:b3:109:LEU:HD11	2:b3:159:GLY:HA3	1.92	0.51
2:d3:73:TYR:O	2:d3:77:ARG:HB2	2.11	0.51
5:j3:67:ILE:HD13	5:j3:209:ASN:HB3	1.92	0.51
5:j3:391:SER:OG	5:j3:392:SER:N	2.43	0.51
5:j3:1000:ILE:HG12	5:j3:1111:VAL:HG22	1.92	0.51
5:k3:805:PHE:CE2	5:k3:809:LEU:HD11	2.46	0.51
1:C2:77:MET:HE2	1:C2:77:MET:N	2.26	0.51
2:D2:61:ILE:HG13	2:D2:62:TYR:CD2	2.46	0.51
1:G2:114:GLU:OE2	5:j3:785:ARG:NH1	2.44	0.51
1:I2:77:MET:HE2	1:I2:77:MET:N	2.25	0.51
1:M2:47:ARG:HD3	2:N2:18:TYR:CE2	2.46	0.51
2:N2:39:ARG:HB2	2:N2:39:ARG:NH1	2.25	0.51
1:O2:32:SER:O	1:O2:36:ARG:HG2	2.11	0.51
2:R2:71:MEN:O	2:R2:77:ARG:HD3	2.10	0.51
1:U2:64:ASP:HA	1:U2:67:SER:OG	2.11	0.51
1:a2:129:GLY:O	1:a2:133:MET:HG2	2.10	0.51
2:b2:89:LEU:HB2	2:b2:133:MET:CE	2.41	0.51
1:c2:20:PRO:CG	1:m2:101:VAL:HB	2.40	0.51
2:f2:12:TYR:CZ	2:f2:23:ALA:HB2	2.46	0.51
2:j2:65:LEU:HB3	2:j2:72:MET:CG	2.40	0.51
2:j2:130:ILE:HA	2:j2:133:MET:SD	2.50	0.51
1:k2:34:GLU:OE1	1:k2:34:GLU:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:r2:14:VAL:HG11	5:j3:1145:PRO:HG2	1.92	0.51
1:s2:5:THR:OG1	2:t2:1:MET:HE1	2.11	0.51
1:s2:160:MET:SD	1:s2:161:GLN:N	2.83	0.51
4:y2:31:LEU:HD23	5:j3:1029:GLU:HB3	1.93	0.51
2:B3:73:TYR:O	2:B3:77:ARG:HB2	2.10	0.51
1:I3:56:ASP:O	1:I3:60:GLN:HG2	2.11	0.51
2:J3:75:THR:HG22	1:K3:115:MET:CE	2.40	0.51
2:L3:122:PRO:HG2	6:L3:201:CYC:HMC3	1.93	0.51
1:W3:2:SER:O	1:W3:6:LYS:HG2	2.11	0.51
1:Y3:23:LEU:HD22	2:Z3:38:VAL:HG13	1.92	0.51
2:g3:60:LEU:CD1	2:g3:85:MET:HE1	2.39	0.51
5:j3:21:MET:HE1	5:j3:43:LEU:CD1	2.41	0.51
5:j3:153:MET:O	5:j3:157:ILE:HG22	2.11	0.51
5:j3:656:GLY:O	5:j3:660:VAL:HG23	2.11	0.51
5:j3:1037:ARG:NE	5:j3:1094:ASP:OD1	2.42	0.51
5:k3:410:GLU:O	5:k3:414:ILE:HG12	2.11	0.51
2:B1:91:TYR:CD1	2:B1:103:ILE:HD11	2.46	0.51
2:F1:84:ASP:OD2	2:F1:116:TYR:OH	2.22	0.51
1:E1:77:MET:CE	6:E1:201:CYC:HAD1	2.40	0.51
3:K1:101:ASN:ND2	1:a3:20:PRO:HD2	2.24	0.51
1:I2:122:PRO:HG2	1:I2:125:ALA:HB3	1.91	0.51
1:K2:26:ILE:O	1:K2:30:VAL:HG13	2.11	0.51
1:M2:22:GLU:O	1:M2:26:ILE:HG13	2.10	0.51
1:S2:5:THR:HA	1:S2:8:ILE:HG22	1.92	0.51
1:S2:22:GLU:O	1:S2:26:ILE:HG13	2.10	0.51
1:S2:112:VAL:HG13	1:S2:160:MET:HE1	1.93	0.51
2:Z2:127:VAL:HG13	2:Z2:157:SER:OG	2.11	0.51
1:c2:4:LEU:HD12	1:c2:5:THR:N	2.26	0.51
2:d2:51:ILE:CG2	2:d2:133:MET:HB3	2.41	0.51
2:f2:72:MET:HE3	2:f2:81:CYS:CB	2.39	0.51
2:h2:75:THR:HG22	1:i2:115:MET:HG3	1.92	0.51
1:i2:20:PRO:CG	1:s2:101:VAL:HB	2.40	0.51
2:n2:85:MET:SD	6:k3:1205:CYC:HBC1	2.50	0.51
2:t2:66:THR:HG21	6:u2:201:CYC:O2A	2.11	0.51
4:x2:7:VAL:HG11	4:x2:37:TRP:CZ3	2.46	0.51
1:C3:11:ALA:HA	1:C3:16:ARG:NH1	2.26	0.51
1:C3:37:LEU:HD21	2:D3:27:LEU:HD13	1.91	0.51
2:R3:17:LYS:HZ3	2:R3:17:LYS:HB2	1.74	0.51
1:Y3:53:GLN:HA	1:Y3:56:ASP:OD2	2.10	0.51
1:c3:18:LEU:HD22	2:d3:97:LEU:HD13	1.92	0.51
1:c3:132:ALA:O	1:c3:136:VAL:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:57:VAL:HG23	5:j3:168:THR:HB	1.92	0.51
5:j3:276:ALA:HA	5:j3:278:TYR:CZ	2.46	0.51
5:k3:253:ARG:HD2	5:k3:370:GLU:HB2	1.92	0.51
5:k3:679:LEU:CD2	5:k3:680:PRO:HD2	2.41	0.51
2:h3:123:ILE:HA	2:h3:126:THR:CG2	2.41	0.51
2:B1:78:TYR:O	2:B1:82:ILE:HG22	2.11	0.51
2:G1:79:ALA:O	2:G1:82:ILE:HG12	2.11	0.51
1:H1:61:ILE:HG23	1:H1:62:ARG:HG2	1.93	0.51
2:I1:104:LEU:CD2	2:I1:156:LEU:HD13	2.40	0.51
2:D2:61:ILE:HA	2:D2:66:THR:CG2	2.40	0.51
1:G2:18:LEU:HD22	2:H2:97:LEU:HD13	1.92	0.51
2:H2:36:VAL:HA	2:H2:39:ARG:NH1	2.25	0.51
2:J2:132:ALA:O	2:J2:136:VAL:HG23	2.11	0.51
2:P2:96:MET:HA	2:P2:152:TYR:CE2	2.45	0.51
2:R2:64:ASP:HA	2:R2:67:ARG:NE	2.26	0.51
1:W2:76:LYS:HG2	1:W2:77:MET:CE	2.41	0.51
1:W2:89:LEU:O	1:W2:93:THR:HG23	2.11	0.51
2:X2:85:MET:HE2	2:X2:133:MET:SD	2.51	0.51
2:d2:36:VAL:O	2:d2:39:ARG:HG2	2.11	0.51
1:i2:28:SER:HB3	1:s2:28:SER:CB	2.41	0.51
1:k2:97:VAL:HG21	2:l2:19:LEU:HD11	1.92	0.51
1:m2:22:GLU:HA	1:m2:25:ARG:HG2	1.92	0.51
2:n2:106:GLU:O	2:n2:110:ASN:ND2	2.44	0.51
1:o2:64:ASP:HA	1:o2:67:SER:OG	2.10	0.51
4:x2:11:ILE:HD11	4:x2:44:ILE:CG2	2.41	0.51
1:A3:50:ILE:HA	1:A3:136:VAL:CG1	2.38	0.51
1:A3:89:LEU:O	1:A3:93:THR:HG23	2.11	0.51
1:C3:41:GLN:O	1:C3:45:GLU:HG2	2.11	0.51
1:E3:47:ARG:HD3	2:F3:18:TYR:CZ	2.45	0.51
1:I3:37:LEU:HD23	1:I3:97:VAL:HG12	1.92	0.51
1:M3:34:GLU:N	1:M3:34:GLU:OE1	2.43	0.51
1:U3:132:ALA:O	1:U3:136:VAL:HG23	2.11	0.51
2:g3:75:THR:HG21	5:k3:182:ASN:O	2.10	0.51
5:j3:70:ARG:HG3	5:j3:209:ASN:OD1	2.11	0.51
5:k3:996:ALA:O	5:k3:1000:ILE:HG13	2.10	0.51
2:h3:104:LEU:O	2:h3:108:VAL:HG13	2.11	0.51
1:H1:122:PRO:HG2	1:H1:125:ALA:HB3	1.93	0.50
3:K1:105:GLU:HA	3:K1:109:LEU:CB	2.34	0.50
3:L1:20:VAL:HG21	1:e3:155:TYR:HB2	1.93	0.50
4:z1:29:THR:H	5:k3:277:ILE:HD13	1.75	0.50
6:z1:101:CYC:HC	6:z1:101:CYC:HMD3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E2:123:ILE:H	1:E2:123:ILE:HD12	1.77	0.50
2:J2:50:THR:O	2:J2:54:GLU:HG3	2.11	0.50
1:K2:34:GLU:N	1:K2:34:GLU:OE2	2.44	0.50
1:S2:93:THR:O	1:S2:97:VAL:HG13	2.11	0.50
2:V2:96:MET:HE3	2:V2:97:LEU:N	2.26	0.50
1:a2:115:MET:HE2	1:a2:119:LEU:CD1	2.41	0.50
1:c2:50:ILE:HG22	1:c2:133:MET:HG3	1.92	0.50
1:e2:22:GLU:O	1:e2:26:ILE:HG13	2.10	0.50
2:l2:10:ASN:ND2	5:k3:1144:SER:HA	2.26	0.50
2:n2:36:VAL:CG2	2:n2:145:ALA:HB2	2.41	0.50
2:n2:66:THR:HG21	6:o2:201:CYC:O2A	2.11	0.50
2:r2:136:VAL:O	2:r2:140:LEU:HD13	2.11	0.50
4:y2:42:GLN:NE2	6:y2:101:CYC:OB	2.44	0.50
1:A3:50:ILE:HG23	1:A3:136:VAL:HB	1.93	0.50
1:C3:4:LEU:CD1	1:C3:26:ILE:HD11	2.41	0.50
2:V3:76:ARG:NH2	5:j3:503:LYS:HD3	2.26	0.50
1:a3:26:ILE:O	1:a3:30:VAL:HG22	2.10	0.50
5:j3:74:ARG:NH2	5:j3:201:VAL:HG23	2.26	0.50
5:j3:193:SER:HB2	6:j3:1206:CYC:O2D	2.12	0.50
5:j3:298:ARG:NH2	5:j3:310:LYS:HB2	2.21	0.50
5:k3:187:ARG:HB3	5:k3:234:LEU:CD2	2.41	0.50
1:A1:110:ILE:HG22	5:k3:393:MET:HG2	1.93	0.50
2:D1:75:THR:CB	3:K1:115:MET:HE2	2.41	0.50
2:F1:105:ASP:HA	2:F1:109:LEU:HD12	1.94	0.50
2:I1:75:THR:HG22	3:L1:115:MET:CE	2.40	0.50
2:B2:96:MET:HA	2:B2:152:TYR:CE2	2.44	0.50
1:g2:98:ALA:HB2	2:h2:9:ILE:CD1	2.41	0.50
2:j2:5:ILE:HG12	2:j2:27:LEU:CD1	2.41	0.50
2:p2:56:ALA:O	2:p2:61:ILE:HG12	2.12	0.50
2:T3:57:ALA:HA	2:T3:61:ILE:HD11	1.91	0.50
2:V3:114:GLU:HB2	5:j3:496:GLU:HG3	1.94	0.50
2:b3:18:TYR:HD2	5:k3:61:THR:HG22	1.77	0.50
1:c3:8:ILE:CD1	2:d3:98:ALA:HB2	2.42	0.50
2:d3:84:ASP:OD2	2:d3:116:TYR:OH	2.21	0.50
5:j3:179:LEU:HD12	5:j3:230:VAL:HG22	1.93	0.50
5:j3:1043:GLU:HG2	5:j3:1046:ARG:NH1	2.22	0.50
5:k3:187:ARG:HD2	5:k3:234:LEU:O	2.12	0.50
1:E1:110:ILE:HD11	2:J1:76:ARG:NH1	2.26	0.50
2:I1:62:TYR:CE2	3:L1:76:LYS:HD2	2.46	0.50
2:J1:6:THR:HA	2:J1:9:ILE:HD12	1.93	0.50
3:K1:2:SER:O	3:K1:6:THR:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:z1:30:LYS:HE2	4:z1:32:VAL:CG1	2.40	0.50
6:B2:201:CYC:HC	6:B2:201:CYC:HMD3	1.75	0.50
2:F2:137:VAL:O	2:F2:141:VAL:HG22	2.12	0.50
2:H2:24:LEU:O	2:H2:27:LEU:HD12	2.10	0.50
1:K2:67:SER:O	1:K2:73:TYR:HB2	2.12	0.50
1:M2:93:THR:O	1:M2:97:VAL:HG13	2.11	0.50
2:R2:96:MET:HA	2:R2:152:TYR:CE2	2.46	0.50
1:q2:50:ILE:CG2	1:q2:89:LEU:HD11	2.41	0.50
1:s2:57:GLN:HA	1:s2:60:GLN:OE1	2.11	0.50
2:v2:10:ASN:HD21	5:j3:968:GLU:HG2	1.77	0.50
1:C3:83:ARG:NH1	6:C3:201:CYC:O1A	2.33	0.50
1:E3:109:ILE:HD11	1:E3:156:LEU:CD2	2.42	0.50
1:G3:122:PRO:HG2	6:G3:201:CYC:OC	2.11	0.50
2:P3:5:ILE:HG12	2:P3:27:LEU:HD22	1.93	0.50
2:R3:148:GLU:O	2:R3:151:ILE:HG12	2.11	0.50
1:U3:138:THR:OG1	1:U3:146:ALA:HB1	2.11	0.50
1:a3:61:ILE:HG21	1:a3:128:GLU:CD	2.37	0.50
4:z3:7:VAL:HG11	4:z3:37:TRP:CZ3	2.46	0.50
5:k3:879:ASP:OD1	5:k3:879:ASP:N	2.43	0.50
5:k3:1000:ILE:HG12	5:k3:1111:VAL:HG22	1.94	0.50
2:D1:73:TYR:O	2:D1:77:ARG:HB2	2.11	0.50
1:H1:77:MET:HE2	1:H1:80:LEU:HD12	1.94	0.50
1:H1:112:VAL:HA	1:H1:115:MET:HB2	1.94	0.50
1:A2:108:GLY:HA2	2:F2:75:THR:HG23	1.93	0.50
2:B2:102:SER:O	2:B2:106:GLU:CB	2.60	0.50
1:M2:112:VAL:HA	1:M2:115:MET:CG	2.41	0.50
1:Q2:89:LEU:O	1:Q2:93:THR:HG23	2.11	0.50
2:R2:64:ASP:HA	2:R2:67:ARG:HE	1.76	0.50
2:T2:126:THR:HG23	6:T2:201:CYC:HMC2	1.94	0.50
1:U2:22:GLU:O	1:U2:25:ARG:HB2	2.11	0.50
2:V2:96:MET:HA	2:V2:152:TYR:CE2	2.46	0.50
2:X2:133:MET:HA	2:X2:136:VAL:HG22	1.92	0.50
2:Z2:36:VAL:O	2:Z2:39:ARG:HG2	2.12	0.50
2:f2:12:TYR:OH	2:f2:20:ASP:OD1	2.26	0.50
2:h2:73:TYR:O	2:h2:77:ARG:HB2	2.11	0.50
1:i2:4:LEU:HD12	1:i2:5:THR:N	2.27	0.50
1:i2:5:THR:HG22	2:j2:1:MET:HE1	1.94	0.50
1:m2:54:ALA:CB	1:m2:133:MET:HG3	2.42	0.50
1:m2:109:ILE:HD11	1:m2:159:ALA:O	2.12	0.50
2:p2:22:ALA:O	2:p2:26:LYS:HG2	2.11	0.50
1:q2:107:ILE:HG23	2:v2:74:THR:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:r2:67:ARG:O	2:r2:73:TYR:HB2	2.12	0.50
1:u2:48:GLU:O	1:u2:52:LYS:HG2	2.11	0.50
1:u2:64:ASP:HA	1:u2:67:SER:OG	2.11	0.50
1:u2:105:GLU:O	1:u2:110:ILE:HG22	2.12	0.50
2:v2:15:GLN:HG2	5:j3:961:GLY:O	2.11	0.50
4:x2:18:ARG:NE	4:x2:22:GLU:HG3	2.26	0.50
2:F3:96:MET:HA	2:F3:152:TYR:CE2	2.47	0.50
1:I3:16:ARG:HG3	1:I3:17:TYR:O	2.11	0.50
1:K3:17:TYR:CD2	2:L3:45:SER:HA	2.47	0.50
1:Q3:52:LYS:HD2	1:Q3:56:ASP:OD2	2.11	0.50
2:V3:61:ILE:HG13	2:V3:62:TYR:CD2	2.47	0.50
1:c3:56:ASP:O	1:c3:60:GLN:HG2	2.11	0.50
1:e3:18:LEU:HG	2:h3:97:LEU:CD2	2.42	0.50
1:e3:61:ILE:HG21	1:e3:128:GLU:OE1	2.11	0.50
5:k3:288:LEU:CD1	5:k3:290:SER:HA	2.41	0.50
5:k3:575:ILE:O	5:k3:633:ARG:HD3	2.10	0.50
5:k3:928:MET:N	5:k3:928:MET:HE2	2.27	0.50
2:B1:79:ALA:HA	2:B1:82:ILE:HG22	1.93	0.50
2:B1:113:LYS:O	2:B1:117:ASN:ND2	2.45	0.50
1:H1:98:ALA:HB2	2:I1:9:ILE:CD1	2.42	0.50
2:I1:97:LEU:HD12	2:I1:98:ALA:N	2.26	0.50
2:J1:137:VAL:O	2:J1:141:VAL:HG22	2.11	0.50
4:z1:38:PHE:HB3	5:k3:390:GLN:OE1	2.12	0.50
4:M1:30:LYS:HE2	4:M1:32:VAL:CG1	2.40	0.50
2:D2:61:ILE:HA	2:D2:66:THR:HG21	1.92	0.50
1:G2:135:ASN:O	1:G2:138:THR:HG22	2.11	0.50
1:K2:80:LEU:CD2	5:j3:725:LEU:HD21	2.39	0.50
1:K2:82:LEU:HB2	5:j3:722:ILE:HD13	1.93	0.50
1:S2:82:LEU:HD23	1:S2:85:LEU:HD23	1.92	0.50
1:W2:3:VAL:O	1:W2:6:LYS:HG2	2.11	0.50
1:Y2:43:LEU:HD11	1:Y2:137:ALA:HB1	1.94	0.50
1:Y2:134:LYS:HE3	1:Y2:150:GLY:CA	2.42	0.50
1:e2:54:ALA:HB2	1:e2:133:MET:HA	1.92	0.50
1:g2:20:PRO:HD2	1:u2:101:VAL:CG1	2.42	0.50
2:l2:10:ASN:HD21	5:k3:1145:PRO:HD2	1.75	0.50
2:n2:132:ALA:HA	2:n2:135:GLU:HG3	1.92	0.50
2:p2:71:MEN:O	2:p2:77:ARG:HD3	2.11	0.50
2:p2:82:ILE:HD12	2:p2:83:ARG:N	2.27	0.50
2:H3:134:LYS:NZ	2:H3:154:ASP:OD1	2.36	0.50
1:I3:37:LEU:HD21	2:J3:27:LEU:HD13	1.94	0.50
2:J3:96:MET:HA	2:J3:152:TYR:CE2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K3:22:GLU:O	1:K3:26:ILE:HG13	2.12	0.50
1:M3:93:THR:O	1:M3:97:VAL:HG23	2.12	0.50
2:N3:85:MET:CG	6:N3:201:CYC:HBC1	2.41	0.50
2:V3:54:GLU:N	2:V3:54:GLU:OE2	2.45	0.50
2:X3:23:ALA:HA	2:X3:26:LYS:HG3	1.92	0.50
1:Y3:126:VAL:HG22	6:Y3:201:CYC:HMC1	1.93	0.50
1:c3:110:ILE:O	2:f3:75:THR:OG1	2.15	0.50
2:d3:63:SER:OG	5:j3:703:LEU:HB2	2.12	0.50
1:e3:8:ILE:HD11	2:h3:97:LEU:HB3	1.94	0.50
5:j3:637:ARG:NH2	5:j3:669:GLU:OE1	2.42	0.50
1:C1:156:LEU:HD22	1:C1:160:MET:CE	2.40	0.50
2:D1:66:THR:OG1	6:K1:201:CYC:O2A	2.27	0.50
2:G1:3:ASP:N	2:G1:6:THR:OG1	2.45	0.50
3:K1:130:MET:HB3	3:K1:157:ILE:CG2	2.39	0.50
2:B2:102:SER:O	2:B2:106:GLU:HB3	2.11	0.50
2:H2:72:MET:HB3	6:H2:201:CYC:OC	2.11	0.50
1:K2:32:SER:O	1:K2:36:ARG:HD3	2.12	0.50
2:X2:73:TYR:O	2:X2:77:ARG:HB2	2.11	0.50
1:a2:85:LEU:HD22	1:a2:133:MET:SD	2.50	0.50
2:b2:89:LEU:HB2	2:b2:133:MET:HE3	1.92	0.50
1:c2:2:SER:HA	1:c2:100:ASP:CB	2.42	0.50
2:d2:96:MET:HA	2:d2:152:TYR:CE2	2.46	0.50
1:g2:51:VAL:HG12	1:g2:52:LYS:HE2	1.92	0.50
6:h2:201:CYC:OB	4:y2:23:LEU:HB2	2.11	0.50
2:n2:3:ASP:N	2:n2:6:THR:OG1	2.45	0.50
1:o2:58:LEU:HD22	1:o2:129:GLY:HA3	1.92	0.50
2:r2:50:THR:HA	2:r2:53:LYS:HG2	1.93	0.50
2:F3:148:GLU:O	2:F3:151:ILE:HG12	2.12	0.50
2:H3:111:GLY:O	2:H3:114:GLU:HG2	2.12	0.50
2:L3:12:TYR:CZ	2:L3:23:ALA:HB2	2.46	0.50
1:Q3:44:THR:O	1:Q3:47:ARG:HG2	2.10	0.50
1:Y3:105:GLU:O	1:Y3:110:ILE:HG13	2.11	0.50
1:a3:8:ILE:HD12	2:g3:98:ALA:HB2	1.94	0.50
2:g3:123:ILE:HA	2:g3:126:THR:CG2	2.42	0.50
5:j3:1025:LEU:HD11	5:j3:1035:PHE:CG	2.46	0.50
2:h3:137:VAL:HG21	2:h3:153:PHE:CE2	2.46	0.50
1:C1:4:LEU:CD2	1:C1:26:ILE:HG13	2.41	0.50
2:B2:72:MET:HE2	2:B2:78:TYR:CD2	2.46	0.50
1:K2:49:ARG:HH11	1:K2:140:LEU:HD11	1.75	0.50
2:N2:96:MET:HA	2:N2:152:TYR:CE2	2.47	0.50
1:Q2:94:TYR:OH	2:R2:17:LYS:O	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T2:36:VAL:CG1	2:T2:145:ALA:HB2	2.42	0.50
2:l2:54:GLU:O	2:l2:58:LYS:HG2	2.12	0.50
2:n2:76:ARG:NH1	5:k3:971:VAL:HG12	2.27	0.50
6:v2:201:CYC:HMA1	6:v2:201:CYC:NB	2.26	0.50
2:F3:8:VAL:CG2	2:F3:26:LYS:HD2	2.41	0.50
1:M3:108:GLY:HA2	2:R3:75:THR:HG23	1.93	0.50
2:V3:73:TYR:O	2:V3:74:THR:OG1	2.29	0.50
2:d3:36:VAL:CG1	2:d3:145:ALA:HB2	2.41	0.50
5:j3:216:ASP:HA	5:j3:220:SER:HB3	1.94	0.50
5:k3:724:GLU:HA	5:k3:727:THR:HG23	1.92	0.50
5:k3:912:VAL:O	5:k3:914:PRO:HD3	2.12	0.50
2:D1:96:MET:HA	2:D1:152:TYR:CE2	2.46	0.50
1:H1:89:LEU:HA	1:H1:92:VAL:CG1	2.41	0.50
2:I1:52:ILE:HD11	2:I1:85:MET:HB2	1.94	0.50
2:I1:112:LEU:HG	2:I1:116:TYR:CE2	2.46	0.50
4:z1:7:VAL:HG11	4:z1:37:TRP:CZ3	2.47	0.50
1:A2:39:ILE:CD1	1:A2:145:ASP:HB2	2.42	0.50
1:A2:132:ALA:O	1:A2:136:VAL:HG23	2.12	0.50
2:D2:105:ASP:OD2	2:D2:155:TYR:OH	2.24	0.50
2:H2:75:THR:OG1	1:I2:110:ILE:O	2.19	0.50
6:L2:201:CYC:HMA2	5:j3:779:ASP:OD2	2.11	0.50
2:N2:89:LEU:HB2	2:N2:133:MET:CE	2.41	0.50
1:O2:77:MET:N	1:O2:77:MET:HE2	2.27	0.50
1:S2:97:VAL:HG21	2:T2:19:LEU:HD11	1.93	0.50
1:S2:102:THR:O	1:S2:105:GLU:HG3	2.12	0.50
2:X2:110:ASN:OD1	2:X2:110:ASN:N	2.42	0.50
1:Y2:22:GLU:O	1:Y2:26:ILE:HG13	2.11	0.50
2:Z2:78:TYR:O	2:Z2:82:ILE:HG23	2.11	0.50
1:c2:22:GLU:O	1:c2:25:ARG:HG2	2.12	0.50
1:i2:22:GLU:O	1:i2:26:ILE:HG13	2.11	0.50
1:m2:122:PRO:HG2	6:m2:201:CYC:HMC1	1.92	0.50
1:s2:40:ALA:CB	1:s2:97:VAL:HG13	2.42	0.50
1:A3:122:PRO:HG2	6:A3:201:CYC:OC	2.12	0.50
1:E3:26:ILE:O	1:E3:30:VAL:HG13	2.11	0.50
1:E3:50:ILE:HG12	1:E3:136:VAL:HG12	1.93	0.50
1:G3:132:ALA:O	1:G3:136:VAL:HG23	2.12	0.50
1:K3:26:ILE:O	1:K3:30:VAL:HG13	2.11	0.50
6:V3:201:CYC:HMA1	6:V3:201:CYC:NB	2.21	0.50
1:a3:61:ILE:HG22	1:a3:62:ARG:HG2	1.93	0.50
1:a3:89:LEU:HB2	1:a3:133:MET:CE	2.35	0.50
5:j3:386:ILE:HG12	5:j3:393:MET:SD	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:1016:LEU:HD21	5:j3:1048:ARG:NH2	2.26	0.50
5:k3:939:GLN:O	5:k3:943:THR:HG23	2.12	0.50
1:A1:42:THR:HA	1:A1:45:GLU:HG3	1.94	0.50
2:B1:39:ARG:O	2:B1:43:VAL:HG23	2.11	0.50
2:B1:56:ALA:O	2:B1:61:ILE:HG12	2.11	0.50
1:C1:50:ILE:HG22	1:C1:133:MET:HG3	1.94	0.50
1:C1:138:THR:HG22	1:C1:146:ALA:HB1	1.92	0.50
1:H1:34:GLU:O	1:H1:37:LEU:HG	2.11	0.50
1:H1:122:PRO:O	1:H1:126:VAL:HG23	2.12	0.50
2:J1:10:ASN:O	2:J1:14:VAL:HG13	2.11	0.50
6:A2:201:CYC:HMD1	6:A2:201:CYC:NC	2.20	0.50
1:C2:6:LYS:NZ	1:C2:100:ASP:OD2	2.33	0.50
1:C2:62:ARG:O	1:C2:65:VAL:HG22	2.11	0.50
1:E2:82:LEU:HB2	5:k3:722:ILE:HD13	1.93	0.50
1:G2:106:GLU:HA	1:G2:110:ILE:HD11	1.93	0.50
2:T2:14:VAL:HG23	2:T2:15:GLN:HG3	1.94	0.50
1:W2:18:LEU:CD1	1:W2:22:GLU:HG2	2.42	0.50
1:Y2:9:VAL:HG23	2:Z2:1:MET:HE3	1.93	0.50
1:Y2:116:TYR:CD1	1:Y2:121:THR:HB	2.46	0.50
1:c2:40:ALA:O	1:c2:44:THR:HG22	2.11	0.50
1:e2:10:ASN:O	1:e2:14:GLU:HG3	2.12	0.50
1:g2:36:ARG:NH1	1:g2:99:GLY:HA2	2.27	0.50
1:g2:43:LEU:CD2	1:g2:141:LEU:HD11	2.40	0.50
1:i2:87:TYR:O	1:i2:91:LEU:HG	2.12	0.50
1:o2:122:PRO:HB2	1:o2:125:ALA:HB3	1.94	0.50
2:v2:71:MEN:CE2	6:v2:201:CYC:HBD2	2.39	0.50
2:D3:154:ASP:HA	2:D3:157:SER:OG	2.12	0.50
1:E3:71:ASN:OD1	1:E3:121:THR:HG22	2.12	0.50
2:J3:67:ARG:O	2:J3:73:TYR:HB2	2.12	0.50
6:U3:201:CYC:HMD1	6:U3:201:CYC:NC	2.20	0.50
2:V3:28:LYS:O	2:V3:32:THR:HG22	2.12	0.50
1:c3:126:VAL:HG12	1:c3:160:MET:HE1	1.93	0.50
5:j3:386:ILE:HD12	5:j3:395:SER:O	2.11	0.50
5:k3:196:ILE:O	5:k3:200:ILE:HG23	2.12	0.50
5:k3:385:PRO:O	5:k3:396:GLY:HA2	2.12	0.50
5:k3:769:THR:O	5:k3:773:VAL:HG23	2.11	0.50
1:A1:48:GLU:OE2	1:A1:48:GLU:N	2.41	0.49
2:N2:81:CYS:O	2:N2:85:MET:HG2	2.13	0.49
1:O2:25:ARG:HA	1:O2:25:ARG:HH11	1.77	0.49
1:e2:64:ASP:N	1:e2:64:ASP:OD1	2.44	0.49
1:e2:93:THR:O	1:e2:97:VAL:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e2:115:MET:CE	2:j2:78:TYR:HB3	2.42	0.49
1:g2:48:GLU:O	1:g2:52:LYS:HG2	2.12	0.49
1:i2:25:ARG:HG3	1:s2:25:ARG:HD3	1.93	0.49
1:m2:77:MET:H	1:m2:77:MET:CE	2.26	0.49
2:n2:60:LEU:HB3	2:n2:72:MET:CE	2.41	0.49
1:o2:115:MET:HE1	6:o2:201:CYC:HMA2	1.94	0.49
1:q2:39:ILE:O	1:q2:43:LEU:HD23	2.12	0.49
4:y2:7:VAL:HG11	4:y2:37:TRP:CZ3	2.47	0.49
2:B3:96:MET:HA	2:B3:152:TYR:CE2	2.47	0.49
1:G3:22:GLU:O	1:G3:25:ARG:HG2	2.12	0.49
1:G3:54:ALA:CB	1:G3:133:MET:HG3	2.42	0.49
2:L3:96:MET:HA	2:L3:152:TYR:CE2	2.47	0.49
1:U3:43:LEU:HD11	1:U3:141:LEU:HD11	1.94	0.49
1:W3:57:GLN:O	1:W3:61:ILE:HG22	2.12	0.49
1:a3:23:LEU:HD23	2:g3:38:VAL:HG13	1.94	0.49
2:b3:96:MET:HA	2:b3:152:TYR:CE2	2.47	0.49
5:j3:49:ASP:OD2	5:j3:53:ARG:NH1	2.45	0.49
5:k3:84:TYR:OH	5:k3:150:PRO:HB3	2.12	0.49
5:k3:468:ASN:HD21	5:k3:687:PRO:CG	2.25	0.49
1:C1:4:LEU:O	1:C1:8:ILE:HG22	2.12	0.49
3:K1:134:LYS:HA	3:K1:153:PHE:CD2	2.47	0.49
1:K2:14:GLU:OE2	1:K2:16:ARG:NH2	2.45	0.49
1:K2:82:LEU:HD12	5:j3:722:ILE:HD11	1.94	0.49
2:X2:51:ILE:HG23	2:X2:136:VAL:CG2	2.42	0.49
2:X2:64:ASP:O	2:X2:67:ARG:HG2	2.12	0.49
1:Y2:74:GLY:HA3	1:Y2:77:MET:HE3	1.93	0.49
1:Y2:105:GLU:HA	1:Y2:109:ILE:HD13	1.94	0.49
1:Y2:138:THR:OG1	1:Y2:146:ALA:HB1	2.12	0.49
2:Z2:78:TYR:CE2	1:a2:115:MET:HA	2.46	0.49
2:d2:48:ALA:N	1:m2:161:GLN:HE22	2.09	0.49
1:e2:91:LEU:CD1	1:e2:156:LEU:HD11	2.41	0.49
6:i2:201:CYC:HMA3	6:i2:201:CYC:HB	1.77	0.49
2:l2:78:TYR:CD1	1:m2:115:MET:HE1	2.47	0.49
2:r2:132:ALA:O	2:r2:136:VAL:HG23	2.11	0.49
1:u2:80:LEU:CD2	5:j3:955:LEU:HD13	2.42	0.49
2:v2:59:ALA:HA	5:j3:1155:ARG:HH22	1.77	0.49
4:w2:21:ARG:NH1	5:j3:756:SER:O	2.45	0.49
2:J3:73:TYR:O	2:J3:74:THR:OG1	2.28	0.49
1:Q3:61:ILE:HG22	1:Q3:62:ARG:CG	2.39	0.49
1:c3:122:PRO:HG2	1:c3:125:ALA:HB3	1.94	0.49
5:j3:276:ALA:HA	5:j3:278:TYR:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:805:PHE:CE2	5:j3:809:LEU:HD11	2.47	0.49
6:j3:1203:CYC:HMA1	6:j3:1203:CYC:NB	2.28	0.49
1:C1:97:VAL:HG11	2:D1:19:LEU:HD12	1.92	0.49
1:H1:105:GLU:HA	1:H1:109:ILE:CG1	2.42	0.49
2:J1:21:GLY:HA2	2:J1:24:LEU:CD2	2.42	0.49
2:J1:21:GLY:O	2:J1:24:LEU:HG	2.12	0.49
1:I2:145:ASP:N	1:I2:145:ASP:OD1	2.45	0.49
1:O2:24:ASP:HA	1:O2:27:LYS:HE2	1.93	0.49
1:O2:123:ILE:HB	1:O2:124:PRO:HD3	1.95	0.49
2:P2:57:ALA:HA	2:P2:61:ILE:HD11	1.94	0.49
1:Q2:123:ILE:CG1	1:Q2:124:PRO:HD3	2.42	0.49
2:R2:133:MET:O	2:R2:137:VAL:HG13	2.12	0.49
1:e2:56:ASP:O	1:e2:60:GLN:HG2	2.11	0.49
2:r2:61:ILE:HG13	2:r2:62:TYR:CD2	2.47	0.49
2:v2:40:ALA:HB2	2:v2:145:ALA:CB	2.43	0.49
1:A3:126:VAL:HG12	1:A3:160:MET:HE1	1.95	0.49
1:A3:132:ALA:O	1:A3:136:VAL:HG23	2.12	0.49
1:C3:126:VAL:HG12	1:C3:160:MET:HE1	1.94	0.49
2:F3:61:ILE:HA	2:F3:66:THR:CG2	2.42	0.49
1:G3:50:ILE:HG23	1:G3:136:VAL:HB	1.93	0.49
2:J3:64:ASP:OD1	2:J3:64:ASP:N	2.46	0.49
2:L3:83:ARG:HA	2:L3:86:ASP:OD2	2.11	0.49
1:U3:89:LEU:HB2	1:U3:133:MET:SD	2.52	0.49
2:g3:123:ILE:H	2:g3:123:ILE:HD12	1.77	0.49
5:j3:52:ARG:HB3	5:j3:52:ARG:NH1	2.27	0.49
5:k3:56:ILE:O	5:k3:60:LEU:HD13	2.10	0.49
1:C1:133:MET:HB3	1:C1:153:PHE:HE2	1.77	0.49
1:H1:26:ILE:O	1:H1:30:VAL:HG22	2.13	0.49
2:J1:6:THR:HA	2:J1:9:ILE:CD1	2.42	0.49
3:K1:130:MET:HE3	3:K1:160:MET:HE1	1.94	0.49
3:L1:36:ARG:HA	3:L1:39:VAL:HG23	1.93	0.49
1:A2:64:ASP:HA	1:A2:67:SER:OG	2.13	0.49
2:L2:89:LEU:HB2	2:L2:133:MET:HE1	1.93	0.49
2:N2:57:ALA:HA	2:N2:61:ILE:HD11	1.93	0.49
2:T2:36:VAL:HG11	2:T2:144:ASP:O	2.12	0.49
2:T2:132:ALA:O	2:T2:136:VAL:HG23	2.13	0.49
1:c2:35:ARG:O	1:c2:39:ILE:HG12	2.13	0.49
2:f2:78:TYR:OH	1:g2:118:SER:HB3	2.13	0.49
2:h2:28:LYS:O	2:h2:32:THR:HG23	2.12	0.49
1:q2:43:LEU:CD2	1:q2:141:LEU:HD11	2.40	0.49
1:q2:122:PRO:HB2	1:q2:125:ALA:CB	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:6:LYS:HE2	1:A3:6:LYS:HA	1.94	0.49
1:A3:97:VAL:HG21	2:B3:19:LEU:HD11	1.93	0.49
2:J3:114:GLU:HA	2:J3:117:ASN:HD21	1.76	0.49
1:M3:109:ILE:HD11	1:M3:156:LEU:HD12	1.94	0.49
1:S3:69:GLY:HA2	1:a3:56:ASP:OD1	2.12	0.49
5:j3:278:TYR:HB2	5:j3:284:PRO:HG2	1.94	0.49
5:j3:450:ARG:CZ	5:j3:454:GLN:HB3	2.43	0.49
5:j3:468:ASN:HD21	5:j3:687:PRO:CG	2.24	0.49
5:j3:490:SER:O	5:j3:490:SER:OG	2.29	0.49
2:F1:104:LEU:HA	2:F1:108:VAL:HG23	1.95	0.49
1:H1:47:ARG:HG3	1:H1:89:LEU:HD12	1.95	0.49
6:H1:201:CYC:HC	6:H1:201:CYC:HMD3	1.77	0.49
2:J1:3:ASP:OD1	2:J1:6:THR:HG22	2.12	0.49
3:K1:92:ILE:HD11	3:K1:153:PHE:HA	1.94	0.49
3:L1:121:VAL:O	5:j3:238:ARG:HD2	2.12	0.49
3:L1:130:MET:HB2	3:L1:160:MET:HE1	1.93	0.49
4:M1:25:ASN:OD1	5:j3:418:ASP:HB2	2.12	0.49
1:I2:61:ILE:HG21	1:I2:128:GLU:HG2	1.93	0.49
1:M2:95:GLY:HA3	1:M2:104:ILE:HD11	1.94	0.49
1:Q2:37:LEU:HD22	2:R2:24:LEU:HD22	1.95	0.49
1:Q2:134:LYS:HB2	1:Q2:153:PHE:CB	2.42	0.49
1:S2:92:VAL:O	1:S2:96:ILE:HG13	2.12	0.49
1:a2:130:VAL:HG21	1:a2:156:LEU:CD1	2.42	0.49
1:i2:20:PRO:HG3	1:s2:155:TYR:CG	2.47	0.49
2:j2:65:LEU:HB3	2:j2:72:MET:HG2	1.95	0.49
2:j2:96:MET:HA	2:j2:152:TYR:CE2	2.48	0.49
1:k2:106:GLU:HG2	5:k3:1140:TRP:HZ3	1.78	0.49
2:t2:62:TYR:OH	6:u2:201:CYC:O1D	2.27	0.49
1:C3:94:TYR:OH	2:D3:17:LYS:O	2.29	0.49
1:G3:34:GLU:O	1:G3:38:ARG:HG3	2.13	0.49
2:P3:105:ASP:OD2	2:P3:155:TYR:OH	2.28	0.49
1:S3:86:ASP:OD1	2:T3:18:TYR:OH	2.22	0.49
1:Y3:37:LEU:HD12	2:Z3:28:LYS:HE3	1.92	0.49
1:Y3:64:ASP:N	1:Y3:64:ASP:OD1	2.44	0.49
1:a3:37:LEU:HD22	2:g3:24:LEU:CD2	2.42	0.49
1:e3:25:ARG:HA	1:e3:28:SER:OG	2.12	0.49
5:k3:70:ARG:HB3	5:k3:205:GLU:OE2	2.13	0.49
1:C1:64:ASP:OD1	1:Y3:64:ASP:HB2	2.12	0.49
1:C1:119:LEU:HD12	6:C1:201:CYC:HBD1	1.95	0.49
2:D1:51:ILE:HG23	2:D1:136:VAL:CG1	2.41	0.49
1:H1:57:GLN:HA	1:H1:60:GLN:CG	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:91:LEU:CD1	1:H1:104:ILE:HA	2.43	0.49
2:I1:40:ALA:HB3	2:I1:96:MET:CE	2.42	0.49
2:J1:132:ALA:O	2:J1:136:VAL:HG23	2.11	0.49
3:L1:45:ASP:OD1	3:L1:45:ASP:N	2.38	0.49
4:z1:8:THR:CG2	4:z1:52:LEU:HB2	2.39	0.49
1:C2:134:LYS:O	1:C2:138:THR:HG22	2.13	0.49
2:D2:76:ARG:CB	1:E2:110:ILE:HD11	2.42	0.49
2:J2:78:TYR:O	2:J2:82:ILE:HG23	2.12	0.49
1:M2:64:ASP:HA	1:M2:67:SER:OG	2.12	0.49
1:M2:123:ILE:HG23	1:M2:160:MET:HE2	1.94	0.49
2:P2:150:SER:HA	2:P2:153:PHE:HD2	1.78	0.49
2:T2:10:ASN:O	2:T2:14:VAL:HG13	2.12	0.49
2:V2:111:GLY:O	2:V2:114:GLU:HG3	2.12	0.49
1:W2:21:GLY:HA2	1:W2:24:ASP:OD2	2.12	0.49
2:Z2:113:LYS:HD3	2:Z2:113:LYS:H	1.77	0.49
1:a2:122:PRO:HG2	1:a2:125:ALA:HB3	1.95	0.49
1:c2:21:GLY:CA	1:m2:100:ASP:HA	2.42	0.49
1:e2:39:ILE:HG12	1:e2:145:ASP:HB3	1.94	0.49
1:e2:138:THR:OG1	1:e2:146:ALA:HB1	2.13	0.49
2:j2:65:LEU:C	2:j2:72:MET:HG3	2.37	0.49
1:k2:109:ILE:HD12	1:k2:112:VAL:HG11	1.94	0.49
2:l2:10:ASN:O	2:l2:14:VAL:HG12	2.13	0.49
1:m2:48:GLU:O	1:m2:52:LYS:HG3	2.12	0.49
1:o2:27:LYS:NZ	2:p2:35:ALA:HA	2.27	0.49
1:s2:85:LEU:HB3	1:s2:133:MET:HE2	1.95	0.49
4:y2:43:ARG:HD2	5:j3:1103:LEU:CD1	2.41	0.49
1:C3:20:PRO:HB3	1:Q3:151:PHE:CE2	2.48	0.49
2:D3:145:ALA:HA	2:D3:148:GLU:OE1	2.13	0.49
1:E3:6:LYS:HG3	1:E3:100:ASP:OD2	2.13	0.49
1:G3:49:ARG:HH21	1:G3:140:LEU:HD22	1.77	0.49
1:I3:64:ASP:HA	1:I3:67:SER:OG	2.12	0.49
2:L3:85:MET:O	2:L3:133:MET:HE1	2.13	0.49
1:O3:109:ILE:HD12	1:O3:110:ILE:HG23	1.93	0.49
2:b3:73:TYR:O	2:b3:77:ARG:HB2	2.12	0.49
1:c3:105:GLU:HG2	1:c3:110:ILE:HD11	1.94	0.49
5:j3:190:LEU:HB3	5:j3:194:CYS:SG	2.52	0.49
5:j3:971:VAL:HG23	5:j3:1124:TYR:OH	2.13	0.49
5:k3:636:GLY:HA3	5:k3:683:ARG:HG3	1.95	0.49
5:k3:1118:THR:HG23	6:k3:1205:CYC:HMA3	1.94	0.49
2:F1:7:ALA:O	2:F1:11:ASN:HB3	2.13	0.49
2:F1:13:ASP:HA	3:K1:90:ARG:HH12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G1:28:LYS:O	2:G1:32:THR:HG23	2.13	0.49
2:I1:62:TYR:HE2	3:L1:76:LYS:HD2	1.77	0.49
2:I1:99:GLY:HA2	2:I1:152:TYR:OH	2.12	0.49
3:K1:137:ALA:HB3	3:K1:153:PHE:HE2	1.78	0.49
4:z1:25:ASN:OD1	5:k3:417:GLU:HB2	2.13	0.49
1:M2:49:ARG:CZ	1:M2:140:LEU:HD21	2.43	0.49
1:Q2:58:LEU:HD13	1:Q2:129:GLY:CA	2.42	0.49
2:R2:51:ILE:HG23	2:R2:136:VAL:CG2	2.43	0.49
1:Y2:93:THR:O	1:Y2:97:VAL:HG13	2.11	0.49
1:c2:112:VAL:O	1:c2:115:MET:HB3	2.11	0.49
1:g2:87:TYR:O	1:g2:91:LEU:HG	2.12	0.49
2:h2:85:MET:HE3	2:h2:133:MET:HE2	1.92	0.49
2:l2:145:ALA:HA	2:l2:148:GLU:OE2	2.13	0.49
1:q2:77:MET:HE2	1:q2:77:MET:HA	1.94	0.49
2:B3:61:ILE:HG13	2:B3:62:TYR:CD2	2.47	0.49
2:D3:61:ILE:HA	2:D3:66:THR:CG2	2.41	0.49
1:G3:41:GLN:O	1:G3:45:GLU:HG2	2.12	0.49
2:J3:50:THR:HG22	2:J3:54:GLU:OE1	2.12	0.49
2:L3:95:ALA:HB2	2:L3:104:LEU:HG	1.94	0.49
2:b3:3:ASP:H	2:b3:6:THR:HG1	1.61	0.49
1:c3:118:SER:O	2:f3:53:LYS:HD2	2.13	0.49
6:c3:201:CYC:HMA1	6:c3:201:CYC:NB	2.25	0.49
5:j3:820:HIS:HA	5:j3:828:VAL:HG22	1.94	0.49
5:j3:996:ALA:O	5:j3:1000:ILE:HG13	2.12	0.49
5:k3:288:LEU:HD12	5:k3:290:SER:OG	2.13	0.49
5:k3:362:LYS:HB2	5:k3:442:LEU:HD21	1.95	0.49
1:A1:37:LEU:HD11	2:B1:31:PHE:CD2	2.47	0.49
1:C1:97:VAL:HG11	2:D1:19:LEU:CD1	2.43	0.49
1:C1:154:ASP:CB	2:b3:46:SER:HB2	2.40	0.49
1:H1:3:VAL:HG13	1:H1:25:ARG:HD3	1.95	0.49
3:L1:123:ILE:O	3:L1:127:ILE:HD13	2.12	0.49
4:M1:32:VAL:HG21	4:M1:37:TRP:HE3	1.78	0.49
2:H2:61:ILE:HG13	2:H2:62:TYR:CD2	2.47	0.49
1:M2:134:LYS:O	1:M2:138:THR:OG1	2.18	0.49
1:U2:46:ALA:O	1:U2:50:ILE:HG12	2.13	0.49
2:Z2:107:ARG:HB2	2:Z2:107:ARG:HH11	1.78	0.49
1:g2:76:LYS:HG3	1:g2:77:MET:SD	2.53	0.49
1:g2:134:LYS:O	1:g2:138:THR:HG23	2.12	0.49
2:n2:132:ALA:O	2:n2:136:VAL:HG23	2.13	0.49
1:o2:77:MET:N	1:o2:77:MET:HE2	2.28	0.49
4:w2:16:ARG:O	4:w2:17:VAL:HG22	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B3:10:ASN:ND2	5:k3:555:ALA:HB1	2.27	0.49
6:D3:201:CYC:HBC2	6:D3:201:CYC:H2C	1.65	0.49
1:G3:89:LEU:O	1:G3:93:THR:HG23	2.13	0.49
1:I3:27:LYS:O	1:I3:30:VAL:HG22	2.13	0.49
1:I3:43:LEU:HD11	1:I3:137:ALA:HB1	1.93	0.49
2:P3:85:MET:HG2	6:k3:1206:CYC:HBC1	1.94	0.49
1:Q3:77:MET:CE	6:Q3:201:CYC:HAD1	2.31	0.49
1:Q3:131:ARG:O	1:Q3:134:LYS:HB3	2.13	0.49
6:R3:201:CYC:OB	5:k3:520:ARG:NH1	2.41	0.49
2:X3:105:ASP:OD2	2:X3:155:TYR:OH	2.24	0.49
1:Y3:2:SER:N	1:Y3:102:THR:OG1	2.45	0.49
1:Y3:82:LEU:HD23	1:Y3:85:LEU:HD12	1.95	0.49
1:a3:105:GLU:OE2	1:a3:155:TYR:OH	2.31	0.49
2:g3:46:SER:OG	2:g3:47:ASN:N	2.45	0.49
4:z3:30:LYS:NZ	4:z3:40:GLU:OE1	2.39	0.49
5:k3:382:ILE:CD1	5:k3:401:LEU:HD22	2.42	0.49
5:k3:776:PHE:HE2	5:k3:809:LEU:HD22	1.76	0.49
2:h3:116:TYR:CE1	2:h3:121:VAL:HG11	2.47	0.49
1:A1:89:LEU:HD13	1:A1:133:MET:HE3	1.95	0.49
2:B1:104:LEU:HD13	2:B1:156:LEU:HG	1.95	0.49
1:E2:109:ILE:HD11	1:E2:156:LEU:HD23	1.94	0.49
1:K2:29:PHE:HZ	2:L2:5:ILE:HD12	1.77	0.49
1:K2:126:VAL:HG12	1:K2:160:MET:HE1	1.94	0.49
1:O2:23:LEU:HB3	1:O2:27:LYS:NZ	2.28	0.49
2:R2:57:ALA:HA	2:R2:61:ILE:CD1	2.43	0.49
1:U2:112:VAL:HA	1:U2:115:MET:HB2	1.94	0.49
1:W2:22:GLU:O	1:W2:26:ILE:HG23	2.13	0.49
1:a2:20:PRO:HD2	1:o2:101:VAL:HG11	1.94	0.49
1:a2:48:GLU:O	1:a2:52:LYS:HG2	2.13	0.49
1:c2:5:THR:O	1:c2:8:ILE:HG12	2.13	0.49
1:c2:21:GLY:HA3	1:m2:100:ASP:OD1	2.12	0.49
1:c2:48:GLU:HB3	1:c2:49:ARG:NH1	2.27	0.49
2:l2:122:PRO:HG2	6:k3:1204:CYC:HMC2	1.95	0.49
1:C3:35:ARG:HG3	1:C3:38:ARG:HH21	1.78	0.49
2:D3:127:VAL:O	2:D3:131:GLN:HG2	2.13	0.49
2:F3:36:VAL:CG1	2:F3:145:ALA:HB2	2.43	0.49
2:H3:20:ASP:O	2:H3:24:LEU:HG	2.12	0.49
2:L3:137:VAL:O	2:L3:141:VAL:HG22	2.13	0.49
1:O3:64:ASP:HA	1:O3:67:SER:OG	2.13	0.49
2:T3:115:THR:HG23	5:j3:486:ILE:CD1	2.38	0.49
1:U3:105:GLU:HA	1:U3:109:ILE:CD1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V3:105:ASP:OD2	2:V3:155:TYR:OH	2.26	0.49
2:V3:107:ARG:NH1	5:j3:619:GLU:O	2.46	0.49
2:Z3:36:VAL:CG1	2:Z3:145:ALA:HB2	2.42	0.49
5:j3:385:PRO:O	5:j3:396:GLY:HA2	2.13	0.49
5:j3:679:LEU:CD2	5:j3:680:PRO:HD2	2.41	0.49
5:k3:59:LYS:O	5:k3:62:GLU:HG3	2.13	0.49
5:k3:85:SER:OG	5:k3:87:ARG:HG2	2.13	0.49
2:D1:44:ILE:HD11	2:D1:89:LEU:HD21	1.94	0.49
2:D1:104:LEU:HD13	2:D1:156:LEU:CD2	2.43	0.49
1:E1:89:LEU:HB2	1:E1:133:MET:HE1	1.95	0.49
2:G1:12:TYR:CE2	2:G1:19:LEU:HA	2.48	0.49
2:I1:75:THR:HA	3:L1:115:MET:HE2	1.95	0.49
2:J1:34:GLY:C	3:L1:30:MET:HE1	2.38	0.49
2:J1:93:THR:O	2:J1:96:MET:HE3	2.13	0.49
3:L1:120:GLU:HG2	5:j3:236:ALA:O	2.13	0.49
1:G2:105:GLU:HG3	1:G2:155:TYR:OH	2.13	0.49
1:M2:86:ASP:OD1	2:N2:18:TYR:OH	2.28	0.49
2:N2:36:VAL:HG13	2:N2:144:ASP:OD1	2.13	0.49
2:N2:66:THR:HG21	6:O2:201:CYC:O2A	2.13	0.49
1:Q2:3:VAL:O	1:Q2:6:LYS:HG2	2.13	0.49
2:R2:36:VAL:O	2:R2:39:ARG:HG2	2.11	0.49
2:T2:36:VAL:HA	2:T2:39:ARG:CD	2.43	0.49
2:f2:147:LYS:HD3	2:f2:148:GLU:H	1.77	0.49
1:k2:110:ILE:O	2:p2:75:THR:OG1	2.19	0.49
1:o2:27:LYS:HA	1:o2:30:VAL:HG22	1.94	0.49
4:x2:63:ALA:CA	4:x2:67:VAL:HG21	2.43	0.49
1:A3:115:MET:CE	2:F3:75:THR:HA	2.43	0.49
2:D3:96:MET:HA	2:D3:152:TYR:CE2	2.48	0.49
1:E3:74:GLY:O	1:E3:78:THR:HG23	2.13	0.49
1:G3:23:LEU:O	1:G3:27:LYS:HG2	2.12	0.49
2:L3:78:TYR:O	2:L3:82:ILE:HG23	2.13	0.49
2:N3:72:MET:HE3	2:N3:78:TYR:CD2	2.48	0.49
1:W3:26:ILE:O	1:W3:30:VAL:HG13	2.13	0.49
1:W3:160:MET:HB3	1:W3:161:GLN:OE1	2.13	0.49
2:f3:134:LYS:HD2	2:f3:150:SER:HB2	1.94	0.49
5:j3:804:GLU:OE1	5:j3:807:ARG:NH1	2.46	0.49
5:k3:274:MET:SD	5:k3:293:LYS:HG2	2.53	0.49
2:D1:94:TYR:HA	2:D1:97:LEU:HD21	1.94	0.48
3:K1:143:PRO:HA	3:K1:146:ALA:HB3	1.94	0.48
3:L1:35:LEU:O	3:L1:39:VAL:HG23	2.12	0.48
6:F2:201:CYC:HMA2	5:k3:779:ASP:OD2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H2:24:LEU:HA	2:H2:27:LEU:HD11	1.95	0.48
2:P2:114:GLU:HA	2:P2:117:ASN:ND2	2.27	0.48
2:R2:57:ALA:HA	2:R2:61:ILE:HD11	1.95	0.48
1:a2:130:VAL:HG11	1:a2:156:LEU:HD12	1.95	0.48
2:b2:112:LEU:HD23	2:b2:160:LEU:HD21	1.95	0.48
1:c2:92:VAL:HG11	1:c2:153:PHE:CZ	2.48	0.48
2:l2:14:VAL:HG21	5:k3:1147:TYR:CE1	2.48	0.48
2:l2:83:ARG:CD	5:k3:1082:GLN:HG2	2.43	0.48
1:m2:14:GLU:OE1	1:m2:16:ARG:NE	2.25	0.48
1:m2:109:ILE:CG1	1:m2:159:ALA:HB1	2.42	0.48
1:m2:122:PRO:O	1:m2:126:VAL:HG23	2.12	0.48
1:s2:50:ILE:HD11	1:s2:140:LEU:HD12	1.95	0.48
1:u2:113:LYS:NZ	1:u2:161:GLN:O	2.30	0.48
1:K3:72:ALA:HA	1:K3:77:MET:HB3	1.95	0.48
2:L3:1:MET:CE	2:L3:103:ILE:HD12	2.42	0.48
1:S3:138:THR:OG1	1:S3:146:ALA:HB1	2.13	0.48
6:W3:201:CYC:HMD1	6:W3:201:CYC:NC	2.21	0.48
1:a3:5:THR:HG23	2:g3:1:MET:CE	2.43	0.48
2:g3:134:LYS:HD3	2:g3:153:PHE:HB2	1.95	0.48
5:j3:575:ILE:O	5:j3:633:ARG:HD3	2.12	0.48
5:j3:1082:GLN:O	5:j3:1086:THR:HG23	2.13	0.48
5:k3:138:PRO:CB	5:k3:201:VAL:HG11	2.39	0.48
5:k3:190:LEU:C	5:k3:194:CYS:HB2	2.38	0.48
5:k3:322:LYS:CA	5:k3:325:ASN:HB3	2.41	0.48
5:k3:951:MET:HE2	5:k3:951:MET:HA	1.94	0.48
5:k3:1062:LEU:CD2	5:k3:1096:ILE:HG12	2.43	0.48
1:A1:161:GLN:OE1	2:Z3:49:THR:HG22	2.12	0.48
2:F1:21:GLY:O	2:F1:24:LEU:HG	2.12	0.48
2:F1:85:MET:HE2	2:F1:85:MET:HA	1.95	0.48
2:G1:113:LYS:HD2	2:G1:114:GLU:H	1.78	0.48
1:H1:7:ALA:HB2	1:H1:25:ARG:HH11	1.78	0.48
2:J1:95:ALA:HB2	2:J1:104:LEU:HG	1.96	0.48
3:K1:137:ALA:HB3	3:K1:153:PHE:CE2	2.48	0.48
3:L1:95:SER:HB3	3:L1:104:VAL:HG23	1.95	0.48
1:I2:76:LYS:HD3	1:I2:77:MET:CE	2.43	0.48
1:M2:8:ILE:CD1	2:N2:98:ALA:HB2	2.42	0.48
1:M2:26:ILE:O	1:M2:30:VAL:HG13	2.13	0.48
1:O2:62:ARG:O	1:O2:65:VAL:HG22	2.13	0.48
1:c2:62:ARG:O	1:c2:65:VAL:HG22	2.13	0.48
1:i2:6:LYS:O	1:i2:9:VAL:HB	2.13	0.48
1:k2:35:ARG:HH22	1:k2:144:ASP:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m2:37:LEU:HD13	2:n2:28:LYS:CE	2.42	0.48
2:n2:55:ALA:CB	2:n2:133:MET:HG2	2.43	0.48
1:q2:67:SER:O	1:q2:73:TYR:HB2	2.12	0.48
1:s2:111:GLY:HA2	1:s2:114:GLU:OE1	2.12	0.48
4:x2:6:LYS:HB3	4:x2:55:LYS:HB2	1.94	0.48
1:A3:29:PHE:O	1:A3:29:PHE:CG	2.65	0.48
2:D3:78:TYR:CD1	1:E3:115:MET:HB2	2.48	0.48
2:H3:82:ILE:HD11	1:I3:114:GLU:HB3	1.95	0.48
1:M3:113:LYS:HD3	1:M3:123:ILE:CD1	2.43	0.48
1:c3:91:LEU:HD21	1:c3:107:ILE:HG21	1.94	0.48
1:c3:118:SER:HA	2:f3:53:LYS:HZ2	1.77	0.48
5:j3:196:ILE:O	5:j3:200:ILE:HG23	2.13	0.48
5:j3:1060:GLU:HB2	5:j3:1071:PRO:HD3	1.93	0.48
5:k3:386:ILE:HD12	5:k3:395:SER:O	2.12	0.48
5:k3:1119:LEU:CG	5:k3:1120:PRO:HD3	2.43	0.48
1:H1:111:GLY:HA2	1:H1:114:GLU:OE1	2.12	0.48
2:J1:36:VAL:CG1	2:J1:145:ALA:HB2	2.44	0.48
2:J1:71:MEN:O	2:J1:77:ARG:HD2	2.13	0.48
2:J1:122:PRO:HG2	6:J1:201:CYC:HMC1	1.96	0.48
1:E2:67:SER:O	1:E2:73:TYR:HB2	2.13	0.48
1:G2:109:ILE:CD1	1:G2:110:ILE:HG23	2.44	0.48
2:H2:48:ALA:HB3	1:S2:161:GLN:OE1	2.12	0.48
2:J2:26:LYS:HE2	5:j3:926:ALA:HB2	1.96	0.48
2:P2:131:GLN:O	2:P2:135:GLU:HG2	2.13	0.48
1:Q2:2:SER:OG	1:Q2:5:THR:OG1	2.30	0.48
1:U2:50:ILE:HD11	1:U2:140:LEU:CD1	2.44	0.48
2:Z2:76:ARG:NH1	6:k3:1203:CYC:O1D	2.45	0.48
1:a2:4:LEU:HD21	1:a2:26:ILE:HG23	1.94	0.48
2:h2:85:MET:HG2	6:h2:201:CYC:HBC1	1.95	0.48
2:l2:148:GLU:HA	2:l2:151:ILE:CD1	2.44	0.48
2:r2:54:GLU:O	2:r2:58:LYS:HG2	2.13	0.48
1:s2:85:LEU:HD22	1:s2:133:MET:CE	2.38	0.48
4:x2:32:VAL:HG11	4:x2:37:TRP:CE3	2.48	0.48
1:A3:92:VAL:HA	1:A3:104:ILE:HD11	1.95	0.48
1:A3:109:ILE:HD12	1:A3:159:ALA:CB	2.43	0.48
2:F3:73:TYR:O	2:F3:74:THR:OG1	2.30	0.48
2:J3:105:ASP:OD2	2:J3:155:TYR:OH	2.15	0.48
2:P3:39:ARG:O	2:P3:43:VAL:HG23	2.14	0.48
2:V3:15:GLN:OE1	2:V3:17:LYS:NZ	2.47	0.48
2:V3:114:GLU:CD	5:j3:473:GLY:HA3	2.39	0.48
1:a3:36:ARG:HH21	1:a3:99:GLY:HA2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b3:36:VAL:CG1	2:b3:145:ALA:HB2	2.44	0.48
2:f3:73:TYR:O	2:f3:74:THR:OG1	2.29	0.48
5:k3:471:PRO:CB	5:k3:642:ARG:HG2	2.43	0.48
2:B1:77:ARG:N	2:B1:77:ARG:HD2	2.28	0.48
1:C1:89:LEU:HA	1:C1:92:VAL:HG12	1.95	0.48
2:F1:36:VAL:HG12	2:F1:145:ALA:HB2	1.96	0.48
1:H1:115:MET:HB3	1:H1:116:TYR:HD1	1.77	0.48
2:J1:147:LYS:HD2	2:J1:148:GLU:H	1.78	0.48
3:K1:161:GLN:NE2	2:g3:46:SER:O	2.43	0.48
6:B2:201:CYC:HMA3	6:B2:201:CYC:HB	1.78	0.48
1:E2:18:LEU:HD22	2:F2:97:LEU:CD1	2.43	0.48
2:F2:148:GLU:O	2:F2:151:ILE:HG12	2.14	0.48
2:L2:148:GLU:O	2:L2:151:ILE:HG12	2.14	0.48
1:S2:27:LYS:HE3	2:T2:38:VAL:CG1	2.43	0.48
1:S2:91:LEU:HB3	1:S2:104:ILE:HG23	1.94	0.48
1:W2:123:ILE:CG1	1:W2:124:PRO:HD3	2.43	0.48
1:c2:50:ILE:HD13	1:c2:136:VAL:HG12	1.95	0.48
1:e2:109:ILE:HG13	1:e2:110:ILE:N	2.28	0.48
6:e2:201:CYC:HMD1	6:e2:201:CYC:NC	2.22	0.48
1:k2:101:VAL:HB	1:k2:155:TYR:CE2	2.48	0.48
2:l2:148:GLU:HA	2:l2:151:ILE:HD13	1.95	0.48
2:r2:33:THR:O	2:r2:33:THR:OG1	2.30	0.48
2:r2:110:ASN:HB3	5:j3:1054:SER:HB3	1.94	0.48
1:s2:64:ASP:HA	1:s2:67:SER:OG	2.13	0.48
2:v2:35:ALA:HB1	2:v2:39:ARG:NH2	2.28	0.48
1:C3:88:TYR:CD1	1:C3:156:LEU:HD21	2.48	0.48
2:D3:71:MEN:HB2	6:D3:201:CYC:OC	2.12	0.48
1:I3:130:VAL:HA	1:I3:133:MET:HG3	1.95	0.48
2:J3:74:THR:HG22	1:K3:107:ILE:HG23	1.95	0.48
2:L3:28:LYS:O	2:L3:28:LYS:HD3	2.14	0.48
6:g3:201:CYC:HBA2	5:k3:426:LEU:CD1	2.43	0.48
5:j3:143:ILE:HG22	5:j3:145:ILE:H	1.78	0.48
5:j3:184:LEU:HB3	5:j3:261:ILE:CG2	2.43	0.48
5:j3:471:PRO:CB	5:j3:642:ARG:HG2	2.43	0.48
5:j3:511:ARG:NH1	5:j3:683:ARG:O	2.47	0.48
5:j3:1016:LEU:HD11	5:j3:1048:ARG:NH1	2.28	0.48
5:k3:780:ILE:HG22	5:k3:783:TYR:CE2	2.47	0.48
2:F1:76:ARG:NE	4:z1:67:VAL:HG11	2.28	0.48
3:L1:65:LEU:O	3:L1:72:ALA:HB3	2.14	0.48
2:B2:12:TYR:CE1	2:B2:23:ALA:HB2	2.49	0.48
2:P2:122:PRO:HB2	2:P2:125:ALA:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S2:4:LEU:O	1:S2:8:ILE:HG22	2.14	0.48
2:Z2:57:ALA:HA	2:Z2:61:ILE:HD11	1.96	0.48
1:e2:77:MET:H	1:e2:77:MET:HE2	1.78	0.48
1:k2:112:VAL:HA	1:k2:115:MET:HB2	1.95	0.48
1:s2:122:PRO:HG2	1:s2:125:ALA:HB3	1.95	0.48
4:x2:58:THR:OG1	4:x2:59:GLY:N	2.47	0.48
1:C3:87:TYR:O	1:C3:91:LEU:HG	2.13	0.48
2:D3:147:LYS:H	2:D3:147:LYS:HD3	1.78	0.48
1:G3:85:LEU:HD22	1:G3:133:MET:SD	2.54	0.48
2:N3:137:VAL:O	2:N3:141:VAL:HG22	2.14	0.48
1:O3:106:GLU:N	1:O3:106:GLU:OE2	2.46	0.48
2:P3:73:TYR:O	2:P3:74:THR:OG1	2.28	0.48
1:Q3:37:LEU:HD11	2:R3:27:LEU:CD1	2.40	0.48
2:T3:61:ILE:HG13	2:T3:62:TYR:CD2	2.48	0.48
2:V3:74:THR:OG1	2:V3:77:ARG:HG3	2.13	0.48
2:V3:119:LEU:HD11	6:V3:201:CYC:HAA2	1.95	0.48
2:X3:87:TYR:OH	5:j3:520:ARG:HB3	2.12	0.48
4:i3:23:LEU:HD12	4:i3:23:LEU:O	2.13	0.48
5:j3:511:ARG:CZ	5:j3:526:MET:HE1	2.44	0.48
5:k3:756:SER:HB3	5:k3:879:ASP:OD2	2.14	0.48
2:h3:51:ILE:HG23	2:h3:136:VAL:HG11	1.95	0.48
1:A1:103:PRO:O	1:A1:107:ILE:HD12	2.14	0.48
2:B1:40:ALA:HB1	2:B1:141:VAL:HG11	1.95	0.48
2:B1:127:VAL:HG21	2:B1:161:SER:HB2	1.94	0.48
2:D1:80:ALA:HB1	2:D1:83:ARG:HH21	1.79	0.48
2:G1:104:LEU:HD13	2:G1:156:LEU:HD22	1.95	0.48
2:G1:133:MET:O	2:G1:137:VAL:HG12	2.13	0.48
2:I1:47:ASN:O	2:I1:51:ILE:HG13	2.13	0.48
3:K1:36:ARG:HA	3:K1:39:VAL:CG2	2.44	0.48
3:K1:72:ALA:HB1	3:K1:78:LEU:HD23	1.96	0.48
2:D2:12:TYR:CZ	2:D2:23:ALA:HB2	2.48	0.48
1:G2:34:GLU:OE2	1:G2:34:GLU:N	2.43	0.48
1:M2:34:GLU:OE2	1:M2:34:GLU:N	2.46	0.48
1:M2:39:ILE:HG12	1:M2:145:ASP:HB3	1.95	0.48
1:S2:115:MET:HE1	2:X2:78:TYR:CD1	2.48	0.48
1:W2:35:ARG:NH2	1:W2:144:ASP:HB2	2.29	0.48
2:X2:96:MET:HA	2:X2:152:TYR:CE2	2.48	0.48
2:Z2:36:VAL:CG1	2:Z2:145:ALA:HB2	2.43	0.48
1:a2:59:PHE:CZ	1:a2:78:THR:HG23	2.49	0.48
1:a2:112:VAL:O	1:a2:115:MET:HB3	2.13	0.48
2:f2:96:MET:HA	2:f2:152:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g2:5:THR:HG23	2:h2:1:MET:SD	2.54	0.48
6:o2:201:CYC:HMA1	6:o2:201:CYC:NB	2.28	0.48
2:p2:112:LEU:HD21	6:p2:201:CYC:HMB1	1.96	0.48
6:s2:201:CYC:HMD1	6:s2:201:CYC:NC	2.20	0.48
2:B3:85:MET:HE3	2:B3:133:MET:HE2	1.95	0.48
1:E3:52:LYS:HA	1:E3:52:LYS:HE3	1.94	0.48
2:H3:12:TYR:CZ	2:H3:23:ALA:HB2	2.48	0.48
1:I3:41:GLN:O	1:I3:45:GLU:HG3	2.12	0.48
1:K3:92:VAL:O	1:K3:96:ILE:HG13	2.13	0.48
1:O3:54:ALA:CB	1:O3:133:MET:HG3	2.44	0.48
1:O3:154:ASP:HA	1:O3:157:VAL:HB	1.95	0.48
2:X3:20:ASP:O	2:X3:24:LEU:HG	2.13	0.48
2:b3:64:ASP:HA	2:b3:67:ARG:NH1	2.29	0.48
1:c3:35:ARG:NH2	1:c3:144:ASP:HB2	2.28	0.48
5:j3:187:ARG:NH1	5:j3:237:ASP:OD1	2.44	0.48
5:j3:982:TYR:O	5:j3:1110:ILE:HA	2.14	0.48
2:D1:112:LEU:HA	2:D1:115:THR:HG22	1.96	0.48
2:B2:148:GLU:O	2:B2:151:ILE:HG12	2.14	0.48
1:E2:82:LEU:HD12	5:k3:722:ILE:HD11	1.95	0.48
1:G2:81:CYS:O	1:G2:85:LEU:HG	2.13	0.48
2:T2:57:ALA:HA	2:T2:61:ILE:CD1	2.43	0.48
2:V2:57:ALA:HA	2:V2:61:ILE:HD11	1.95	0.48
1:Y2:47:ARG:HB2	1:Y2:89:LEU:CD2	2.43	0.48
1:i2:48:GLU:HB3	1:i2:49:ARG:NH1	2.29	0.48
2:j2:71:MEN:OD1	2:j2:121:VAL:HA	2.12	0.48
2:t2:10:ASN:O	2:t2:14:VAL:HG13	2.14	0.48
1:u2:8:ILE:HD12	2:v2:98:ALA:HB2	1.95	0.48
1:A3:93:THR:O	1:A3:97:VAL:HG13	2.14	0.48
1:C3:54:ALA:CB	1:C3:133:MET:HG2	2.43	0.48
2:D3:67:ARG:O	2:D3:73:TYR:HB2	2.14	0.48
2:D3:148:GLU:O	2:D3:151:ILE:HG12	2.14	0.48
1:I3:109:ILE:HD11	1:I3:156:LEU:HD23	1.94	0.48
1:I3:109:ILE:HD12	1:I3:159:ALA:CB	2.43	0.48
2:J3:107:ARG:HA	4:i3:45:GLN:OE1	2.14	0.48
2:L3:143:PRO:O	2:L3:147:LYS:NZ	2.42	0.48
2:R3:61:ILE:HG13	2:R3:62:TYR:CD2	2.49	0.48
1:S3:126:VAL:HG12	1:S3:160:MET:HE1	1.96	0.48
2:g3:148:GLU:HA	2:g3:151:ILE:CD1	2.39	0.48
5:j3:820:HIS:CE1	5:j3:859:ILE:HD11	2.49	0.48
5:j3:1015:TYR:CD1	5:j3:1016:LEU:HD23	2.49	0.48
5:k3:316:VAL:O	5:k3:320:GLU:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k3:549:LYS:HB2	5:k3:551:MET:HG3	1.95	0.48
5:k3:736:GLU:HA	5:k3:739:VAL:CG2	2.43	0.48
1:E1:20:PRO:HB3	1:c3:151:PHE:HB2	1.94	0.48
1:E2:2:SER:O	1:E2:6:LYS:HG3	2.14	0.48
1:c2:56:ASP:O	1:c2:60:GLN:HG3	2.14	0.48
1:e2:76:LYS:HG3	1:e2:77:MET:SD	2.54	0.48
2:f2:57:ALA:HA	2:f2:61:ILE:CD1	2.44	0.48
1:g2:21:GLY:HA3	1:u2:100:ASP:CG	2.39	0.48
2:n2:36:VAL:HG22	2:n2:145:ALA:HB2	1.96	0.48
1:o2:38:ARG:NH1	1:o2:145:ASP:OD2	2.46	0.48
2:t2:111:GLY:O	2:t2:115:THR:OG1	2.16	0.48
1:A3:2:SER:O	1:A3:6:LYS:HG2	2.14	0.48
1:A3:106:GLU:HG2	5:k3:557:VAL:O	2.14	0.48
2:D3:49:THR:HG21	1:Q3:161:GLN:HG3	1.96	0.48
2:J3:85:MET:HE3	6:J3:201:CYC:HBC1	1.96	0.48
2:L3:107:ARG:HB3	2:L3:107:ARG:NH1	2.28	0.48
2:V3:57:ALA:HA	2:V3:61:ILE:HD11	1.95	0.48
1:W3:122:PRO:HG2	1:W3:125:ALA:HB3	1.96	0.48
6:c3:201:CYC:HMD1	6:c3:201:CYC:NC	2.20	0.48
5:j3:251:GLU:N	5:j3:251:GLU:OE2	2.47	0.48
5:j3:511:ARG:NE	5:j3:526:MET:HE1	2.29	0.48
5:j3:1062:LEU:CD2	5:j3:1096:ILE:HG12	2.43	0.48
5:k3:187:ARG:HB3	5:k3:234:LEU:HD21	1.95	0.48
5:k3:246:VAL:HG22	5:k3:257:THR:CG2	2.38	0.48
2:G1:12:TYR:CD2	2:G1:19:LEU:HA	2.49	0.48
1:G2:4:LEU:CD2	1:G2:26:ILE:HD13	2.43	0.48
6:H2:201:CYC:HMD1	6:H2:201:CYC:NC	2.22	0.48
1:M2:61:ILE:HG21	1:M2:128:GLU:HG2	1.96	0.48
2:N2:28:LYS:HD2	2:N2:28:LYS:HA	1.42	0.48
2:N2:67:ARG:O	2:N2:73:TYR:HB2	2.14	0.48
1:U2:71:ASN:OD1	1:U2:121:THR:OG1	2.14	0.48
2:b2:3:ASP:N	2:b2:6:THR:OG1	2.46	0.48
1:c2:134:LYS:HB2	1:c2:153:PHE:HB3	1.94	0.48
2:f2:73:TYR:O	2:f2:77:ARG:HD3	2.13	0.48
2:f2:79:ALA:HA	2:f2:82:ILE:HG12	1.95	0.48
1:o2:8:ILE:CD1	2:p2:98:ALA:HB2	2.44	0.48
2:t2:36:VAL:CG2	2:t2:145:ALA:HB2	2.44	0.48
4:y2:58:THR:OG1	4:y2:59:GLY:N	2.47	0.48
1:A3:105:GLU:O	1:A3:110:ILE:HG13	2.13	0.48
1:C3:104:ILE:HD12	1:C3:156:LEU:HD13	1.96	0.48
1:C3:123:ILE:HB	1:C3:124:PRO:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E3:201:CYC:HMD1	6:E3:201:CYC:NC	2.21	0.48
1:G3:93:THR:O	1:G3:97:VAL:HG13	2.14	0.48
2:P3:57:ALA:HA	2:P3:61:ILE:HD11	1.96	0.48
1:Q3:57:GLN:HA	1:Q3:60:GLN:NE2	2.25	0.48
2:g3:79:ALA:HB2	5:k3:261:ILE:HD11	1.95	0.48
5:j3:195:SER:HB3	5:j3:198:ALA:HB3	1.95	0.48
5:j3:261:ILE:HD13	2:h3:76:ARG:CB	2.44	0.48
5:k3:629:TYR:OH	5:k3:633:ARG:NH1	2.46	0.48
5:k3:919:ILE:O	5:k3:920:ARG:HG2	2.13	0.48
5:k3:1047:LYS:HA	5:k3:1051:GLU:CG	2.42	0.48
5:k3:1125:ARG:HB3	5:k3:1125:ARG:HH11	1.78	0.48
2:G1:23:ALA:O	2:G1:27:LEU:HG	2.13	0.48
1:H1:88:TYR:O	1:H1:92:VAL:HG12	2.14	0.48
3:K1:20:VAL:HB	1:a3:101:VAL:HG13	1.96	0.48
4:M1:18:ARG:HB2	4:M1:22:GLU:HG3	1.96	0.48
1:A2:75:GLU:OE1	1:A2:75:GLU:N	2.46	0.48
1:K2:4:LEU:HD23	1:K2:26:ILE:HD13	1.96	0.48
1:O2:112:VAL:O	1:O2:115:MET:HB3	2.13	0.48
2:V2:51:ILE:HG12	2:V2:136:VAL:HG23	1.95	0.48
2:V2:73:TYR:O	2:V2:77:ARG:HB2	2.14	0.48
1:W2:126:VAL:HG12	1:W2:160:MET:HE1	1.95	0.48
2:X2:36:VAL:CG1	2:X2:145:ALA:HB2	2.44	0.48
2:X2:85:MET:HG2	6:X2:201:CYC:HBC1	1.95	0.48
6:Y2:201:CYC:HMD1	6:Y2:201:CYC:NC	2.21	0.48
2:b2:61:ILE:HG13	2:b2:62:TYR:CD2	2.48	0.48
1:c2:26:ILE:O	1:c2:30:VAL:HG13	2.13	0.48
2:d2:71:MEN:OD1	2:d2:121:VAL:HA	2.13	0.48
2:h2:107:ARG:HA	2:h2:107:ARG:CZ	2.44	0.48
1:i2:102:THR:O	1:i2:106:GLU:HG3	2.13	0.48
2:j2:81:CYS:O	2:j2:85:MET:HG2	2.14	0.48
1:m2:22:GLU:O	1:m2:25:ARG:HG3	2.13	0.48
1:o2:93:THR:O	1:o2:97:VAL:HG12	2.14	0.48
2:p2:71:MEN:OD1	6:p2:201:CYC:HMD2	2.14	0.48
1:q2:130:VAL:O	1:q2:133:MET:HG3	2.14	0.48
4:x2:15:LYS:HB2	4:x2:15:LYS:HE3	1.53	0.48
1:A3:112:VAL:O	1:A3:115:MET:HB3	2.13	0.48
2:H3:22:ALA:HA	2:H3:25:ASP:OD1	2.14	0.48
2:J3:10:ASN:O	2:J3:14:VAL:HG13	2.14	0.48
2:T3:12:TYR:CZ	2:T3:23:ALA:HB2	2.49	0.48
1:a3:27:LYS:HZ2	2:g3:38:VAL:HG11	1.79	0.48
1:c3:49:ARG:HG3	1:c3:53:GLN:HE22	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c3:118:SER:HA	2:f3:53:LYS:HZ3	1.78	0.48
2:d3:73:TYR:O	2:d3:74:THR:OG1	2.28	0.48
1:e3:100:ASP:OD1	1:e3:102:THR:N	2.45	0.48
2:f3:27:LEU:HD13	5:j3:172:LEU:HD22	1.96	0.48
5:j3:637:ARG:HB3	5:j3:684:TYR:CD1	2.48	0.48
5:k3:138:PRO:HB2	5:k3:139:ASP:OD1	2.14	0.48
5:k3:471:PRO:HB3	5:k3:642:ARG:HG2	1.96	0.48
5:k3:540:LEU:HD11	5:k3:544:VAL:CG2	2.44	0.48
2:B1:35:ALA:HB1	2:B1:38:VAL:HG22	1.96	0.47
2:D1:5:ILE:HG12	2:D1:27:LEU:HD13	1.95	0.47
1:H1:54:ALA:HB2	1:H1:133:MET:HA	1.95	0.47
3:L1:2:SER:O	3:L1:6:THR:HG23	2.14	0.47
2:B2:78:TYR:CE1	1:C2:115:MET:HE1	2.49	0.47
1:E2:20:PRO:HB3	1:O2:151:PHE:CZ	2.41	0.47
1:O2:112:VAL:HA	1:O2:115:MET:HB2	1.96	0.47
1:S2:48:GLU:OE2	1:S2:48:GLU:N	2.45	0.47
1:U2:40:ALA:CB	1:U2:97:VAL:HG13	2.44	0.47
2:V2:39:ARG:HD2	2:V2:144:ASP:OD2	2.14	0.47
2:X2:58:LYS:HE2	2:X2:132:ALA:HA	1.95	0.47
2:X2:134:LYS:NZ	2:X2:154:ASP:OD1	2.47	0.47
2:Z2:36:VAL:HA	2:Z2:39:ARG:CD	2.43	0.47
2:j2:2:GLN:HG2	2:j2:102:SER:CB	2.43	0.47
1:k2:133:MET:HE3	1:k2:153:PHE:HE1	1.79	0.47
2:l2:51:ILE:HG23	2:l2:136:VAL:HB	1.95	0.47
2:n2:28:LYS:O	2:n2:32:THR:HG23	2.14	0.47
1:s2:85:LEU:HD21	6:s2:201:CYC:CBC	2.44	0.47
2:t2:144:ASP:N	2:t2:144:ASP:OD1	2.47	0.47
1:u2:132:ALA:O	1:u2:136:VAL:HG23	2.13	0.47
1:E3:76:LYS:HB2	1:E3:76:LYS:HE3	1.59	0.47
1:G3:73:TYR:O	1:G3:77:MET:HG3	2.14	0.47
1:G3:105:GLU:HA	1:G3:109:ILE:HD11	1.96	0.47
1:G3:105:GLU:HA	1:G3:109:ILE:HG13	1.96	0.47
1:G3:105:GLU:O	1:G3:110:ILE:HG13	2.13	0.47
1:I3:52:LYS:HZ1	1:I3:53:GLN:HA	1.78	0.47
2:L3:3:ASP:OD1	2:L3:5:ILE:N	2.42	0.47
2:P3:67:ARG:O	2:P3:73:TYR:HB2	2.13	0.47
1:a3:32:SER:HB2	1:a3:35:ARG:HH12	1.79	0.47
1:a3:109:ILE:HD12	1:a3:159:ALA:HB1	1.96	0.47
2:b3:36:VAL:HA	2:b3:39:ARG:HD2	1.96	0.47
2:d3:22:ALA:HA	2:d3:25:ASP:OD1	2.14	0.47
5:j3:586:LEU:HD21	5:j3:610:SER:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k3:64:ALA:HB1	5:k3:164:LEU:HD23	1.96	0.47
5:k3:186:LEU:CD2	5:k3:190:LEU:HG	2.44	0.47
5:k3:820:HIS:HA	5:k3:828:VAL:HG22	1.96	0.47
1:C1:122:PRO:HG2	1:C1:125:ALA:HB3	1.96	0.47
1:C1:134:LYS:HB2	1:C1:153:PHE:CD2	2.50	0.47
2:D1:71:MEN:OD1	2:D1:121:VAL:HG22	2.14	0.47
2:F1:6:THR:HG21	3:K1:5:LEU:CD2	2.44	0.47
1:E1:130:VAL:CG2	1:E1:160:MET:HE1	2.45	0.47
2:J1:2:GLN:HB3	2:J1:6:THR:HG23	1.96	0.47
2:B2:72:MET:HB2	6:B2:201:CYC:OC	2.13	0.47
2:H2:147:LYS:HD3	2:H2:147:LYS:N	2.28	0.47
2:L2:131:GLN:O	2:L2:135:GLU:HG2	2.14	0.47
1:M2:64:ASP:OD1	1:M2:64:ASP:N	2.45	0.47
2:P2:61:ILE:HG13	2:P2:62:TYR:CD2	2.49	0.47
2:P2:76:ARG:HD3	1:Q2:110:ILE:HD11	1.96	0.47
2:P2:132:ALA:O	2:P2:136:VAL:HG13	2.13	0.47
1:U2:135:ASN:O	1:U2:138:THR:HG22	2.14	0.47
1:Y2:39:ILE:HG12	1:Y2:145:ASP:HB3	1.95	0.47
2:Z2:57:ALA:HA	2:Z2:61:ILE:CD1	2.44	0.47
1:c2:39:ILE:HD12	1:c2:145:ASP:HB3	1.95	0.47
1:i2:20:PRO:CD	1:s2:101:VAL:HB	2.44	0.47
1:m2:48:GLU:HB3	1:m2:52:LYS:NZ	2.29	0.47
1:m2:68:PRO:HA	1:m2:73:TYR:CD2	2.48	0.47
1:q2:64:ASP:HA	1:q2:67:SER:OG	2.14	0.47
2:r2:10:ASN:OD1	5:j3:1143:LEU:HA	2.14	0.47
1:A3:85:LEU:HD22	1:A3:133:MET:SD	2.54	0.47
1:E3:35:ARG:HH21	1:E3:148:GLU:HG2	1.78	0.47
2:F3:2:GLN:HG2	4:z3:66:GLY:HA3	1.96	0.47
1:G3:3:VAL:HG13	1:G3:25:ARG:NH1	2.30	0.47
2:J3:137:VAL:O	2:J3:141:VAL:HG22	2.14	0.47
1:O3:138:THR:OG1	1:O3:146:ALA:HB1	2.14	0.47
2:P3:28:LYS:O	2:P3:32:THR:HG22	2.13	0.47
2:f3:28:LYS:HZ1	5:j3:51:GLN:HA	1.79	0.47
2:g3:96:MET:HB2	2:g3:152:TYR:CD2	2.48	0.47
5:k3:386:ILE:HG12	5:k3:393:MET:CE	2.40	0.47
5:k3:619:GLU:HB3	5:k3:620:PRO:HD3	1.95	0.47
5:k3:938:GLN:O	5:k3:942:LYS:HG2	2.14	0.47
2:h3:3:ASP:HB3	2:h3:98:ALA:HB1	1.96	0.47
1:C1:21:GLY:O	1:C1:24:ASP:HB2	2.14	0.47
1:C1:39:ILE:HG13	1:C1:145:ASP:HB3	1.96	0.47
2:F1:76:ARG:CZ	4:z1:67:VAL:HG11	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F1:201:CYC:OB	4:z1:41:GLN:NE2	2.47	0.47
2:G1:30:TYR:OH	2:G1:97:LEU:O	2.32	0.47
1:H1:14:GLU:OE2	5:j3:270:THR:OG1	2.30	0.47
1:A2:115:MET:HG3	2:F2:78:TYR:CD1	2.49	0.47
2:B2:73:TYR:O	2:B2:74:THR:OG1	2.30	0.47
2:D2:96:MET:HA	2:D2:152:TYR:CE2	2.49	0.47
1:K2:90:ARG:HB2	2:L2:18:TYR:CE1	2.49	0.47
2:P2:87:TYR:OH	4:z2:21:ARG:N	2.42	0.47
6:Q2:201:CYC:HMD1	6:Q2:201:CYC:NC	2.21	0.47
2:R2:61:ILE:HG13	2:R2:62:TYR:CD2	2.49	0.47
2:T2:148:GLU:HA	2:T2:151:ILE:HD13	1.97	0.47
1:U2:77:MET:HE2	1:U2:77:MET:N	2.28	0.47
2:V2:85:MET:HG3	2:V2:133:MET:CE	2.45	0.47
2:Z2:67:ARG:O	2:Z2:73:TYR:HB2	2.14	0.47
2:b2:96:MET:HA	2:b2:152:TYR:CE2	2.50	0.47
1:i2:142:SER:OG	1:i2:145:ASP:OD1	2.32	0.47
2:j2:119:LEU:HD21	4:y2:5:PHE:HZ	1.79	0.47
2:l2:10:ASN:HD21	5:k3:1145:PRO:CD	2.27	0.47
2:l2:122:PRO:HG2	6:k3:1204:CYC:CMC	2.44	0.47
1:m2:27:LYS:HD2	1:m2:27:LYS:HA	1.54	0.47
1:m2:59:PHE:CZ	1:m2:78:THR:HG23	2.49	0.47
1:o2:68:PRO:HG2	1:G3:61:ILE:CD1	2.43	0.47
1:q2:78:THR:O	1:q2:82:LEU:HG	2.14	0.47
2:H3:76:ARG:HB2	1:I3:110:ILE:HD11	1.95	0.47
2:N3:71:MEN:O	2:N3:77:ARG:HG2	2.15	0.47
1:O3:126:VAL:HG12	1:O3:160:MET:CE	2.44	0.47
2:R3:71:MEN:OD1	6:R3:201:CYC:HMD2	2.14	0.47
1:c3:40:ALA:O	1:c3:44:THR:HG22	2.14	0.47
5:j3:149:GLY:O	5:j3:153:MET:HB2	2.15	0.47
5:j3:210:ALA:HB1	5:j3:223:VAL:HG11	1.96	0.47
5:k3:198:ALA:O	5:k3:201:VAL:HG22	2.14	0.47
5:k3:487:PHE:CZ	5:k3:629:TYR:HB2	2.49	0.47
2:B1:104:LEU:HA	2:B1:108:VAL:HG23	1.96	0.47
2:D1:66:THR:HG22	2:D1:72:MET:SD	2.54	0.47
2:D1:104:LEU:HD13	2:D1:156:LEU:HD21	1.96	0.47
1:E1:12:ASP:OD2	2:G1:107:ARG:NE	2.47	0.47
1:E1:83:ARG:NH2	1:E1:84:ASP:OD1	2.32	0.47
1:H1:97:VAL:HG11	2:I1:19:LEU:CD1	2.45	0.47
1:A2:81:CYS:O	1:A2:85:LEU:HG	2.15	0.47
1:E2:68:PRO:HG3	1:S3:66:VAL:HG11	1.97	0.47
2:J2:29:ALA:HB2	5:j3:935:LEU:CD2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L2:78:TYR:O	2:L2:82:ILE:HG23	2.14	0.47
2:P2:145:ALA:HA	2:P2:148:GLU:OE2	2.14	0.47
1:Q2:21:GLY:HA2	1:Q2:24:ASP:OD2	2.13	0.47
2:T2:101:PRO:HB2	2:T2:155:TYR:CE2	2.49	0.47
1:e2:88:TYR:HA	1:e2:91:LEU:CG	2.44	0.47
1:m2:122:PRO:HG2	1:m2:125:ALA:HB3	1.95	0.47
1:q2:101:VAL:HB	1:q2:155:TYR:CE2	2.49	0.47
6:E3:201:CYC:HMA1	6:E3:201:CYC:NB	2.26	0.47
2:F3:137:VAL:O	2:F3:141:VAL:HG22	2.14	0.47
1:I3:138:THR:OG1	1:I3:146:ALA:HB1	2.14	0.47
2:J3:61:ILE:HA	2:J3:66:THR:CG2	2.44	0.47
2:L3:119:LEU:HD21	5:j3:546:PHE:CD2	2.49	0.47
2:N3:1:MET:HB2	2:N3:1:MET:HE3	1.78	0.47
1:O3:77:MET:HE1	6:O3:201:CYC:O1D	2.14	0.47
2:V3:101:PRO:HB2	2:V3:155:TYR:CE2	2.49	0.47
1:W3:47:ARG:HG3	1:W3:89:LEU:CD2	2.37	0.47
2:X3:132:ALA:O	2:X3:136:VAL:HG23	2.14	0.47
2:g3:83:ARG:HG2	2:g3:84:ASP:N	2.27	0.47
5:j3:164:LEU:O	5:j3:167:THR:OG1	2.26	0.47
5:j3:974:LEU:O	5:j3:978:LEU:HB2	2.14	0.47
5:k3:77:VAL:HG11	5:k3:141:GLU:HG2	1.95	0.47
5:k3:1016:LEU:HD11	5:k3:1048:ARG:NH1	2.29	0.47
2:F1:34:GLY:C	3:K1:30:MET:HE1	2.39	0.47
3:K1:120:GLU:HA	5:k3:238:ARG:HE	1.80	0.47
1:C2:76:LYS:HD2	1:C2:77:MET:HE2	1.97	0.47
1:E2:32:SER:O	1:E2:36:ARG:HD3	2.15	0.47
1:K2:20:PRO:HB3	1:U2:151:PHE:CZ	2.47	0.47
1:M2:115:MET:HE1	2:R2:78:TYR:HB3	1.96	0.47
2:N2:78:TYR:CD1	1:O2:115:MET:HE1	2.50	0.47
1:O2:94:TYR:OH	2:P2:17:LYS:O	2.29	0.47
1:U2:21:GLY:HA2	1:U2:24:ASP:OD2	2.15	0.47
2:V2:61:ILE:HG13	2:V2:62:TYR:CD2	2.50	0.47
1:W2:134:LYS:HB2	1:W2:153:PHE:HB3	1.97	0.47
2:l2:22:ALA:O	2:l2:26:LYS:HG2	2.15	0.47
1:o2:32:SER:O	1:o2:35:ARG:HG3	2.14	0.47
2:r2:119:LEU:HD13	6:j3:1204:CYC:HBD1	1.96	0.47
2:t2:28:LYS:HD2	2:t2:28:LYS:HA	1.66	0.47
1:u2:94:TYR:OH	2:v2:17:LYS:O	2.32	0.47
2:v2:82:ILE:HD12	2:v2:83:ARG:N	2.29	0.47
1:A3:22:GLU:HA	1:A3:25:ARG:HG2	1.96	0.47
2:H3:137:VAL:HG11	2:H3:153:PHE:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H3:201:CYC:HMD1	6:H3:201:CYC:NC	2.21	0.47
6:H3:201:CYC:HMA1	6:H3:201:CYC:HB	1.79	0.47
1:K3:144:ASP:OD1	1:K3:144:ASP:N	2.47	0.47
2:P3:80:ALA:HA	2:P3:83:ARG:HE	1.79	0.47
6:W3:201:CYC:HMA1	6:W3:201:CYC:NB	2.28	0.47
2:X3:137:VAL:O	2:X3:141:VAL:HG22	2.15	0.47
6:Z3:201:CYC:HMA3	6:Z3:201:CYC:HB	1.80	0.47
1:c3:64:ASP:HA	1:c3:67:SER:OG	2.15	0.47
1:c3:91:LEU:HD11	1:c3:107:ILE:HG22	1.95	0.47
2:g3:46:SER:OG	2:g3:47:ASN:OD1	2.29	0.47
2:g3:75:THR:O	2:g3:76:ARG:HB3	2.15	0.47
2:g3:111:GLY:HA2	2:g3:114:GLU:HG2	1.96	0.47
2:g3:116:TYR:CE1	2:g3:121:VAL:HG11	2.49	0.47
4:i3:30:LYS:NZ	4:i3:40:GLU:OE1	2.48	0.47
5:j3:912:VAL:O	5:j3:914:PRO:HD3	2.14	0.47
5:j3:1027:ASN:OD1	6:j3:1203:CYC:HAA1	2.13	0.47
5:k3:219:ASP:OD1	5:k3:220:SER:N	2.47	0.47
5:k3:476:ASN:ND2	5:k3:625:LYS:HG3	2.30	0.47
5:k3:923:MET:HE3	5:k3:923:MET:HB3	1.75	0.47
6:k3:1206:CYC:HMA1	6:k3:1206:CYC:NB	2.23	0.47
1:A1:102:THR:HG23	1:A1:103:PRO:HD3	1.96	0.47
3:K1:130:MET:HG2	3:K1:156:VAL:CB	2.45	0.47
3:L1:36:ARG:HA	3:L1:39:VAL:CG2	2.44	0.47
1:A2:126:VAL:HG12	1:A2:160:MET:HE1	1.97	0.47
1:C2:64:ASP:HA	1:C2:67:SER:OG	2.14	0.47
1:E2:68:PRO:HG3	1:S3:66:VAL:CG1	2.44	0.47
2:L2:122:PRO:HG2	2:L2:125:ALA:HB3	1.97	0.47
1:O2:122:PRO:O	1:O2:126:VAL:HG23	2.14	0.47
1:S2:49:ARG:NH2	1:S2:140:LEU:HD21	2.30	0.47
1:Y2:115:MET:HE1	2:d2:78:TYR:CD1	2.50	0.47
1:a2:89:LEU:O	1:a2:93:THR:HG23	2.15	0.47
1:c2:7:ALA:HB1	1:c2:22:GLU:HG2	1.95	0.47
1:e2:110:ILE:O	2:j2:75:THR:OG1	2.30	0.47
1:i2:116:TYR:HB2	1:i2:123:ILE:HD11	1.95	0.47
1:k2:2:SER:OG	2:l2:3:ASP:OD2	2.31	0.47
1:k2:22:GLU:HA	1:k2:25:ARG:HG2	1.97	0.47
1:m2:113:LYS:HD3	1:m2:123:ILE:CD1	2.44	0.47
2:t2:57:ALA:HA	2:t2:61:ILE:HD11	1.95	0.47
2:t2:84:ASP:OD2	2:t2:116:TYR:OH	2.26	0.47
1:u2:58:LEU:HD22	1:u2:129:GLY:HA3	1.95	0.47
2:J3:76:ARG:NH1	1:K3:106:GLU:HB3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N3:12:TYR:CZ	2:N3:23:ALA:HB2	2.50	0.47
2:R3:96:MET:HA	2:R3:152:TYR:CE2	2.50	0.47
1:S3:77:MET:HE2	1:S3:77:MET:N	2.30	0.47
6:T3:201:CYC:HMA3	6:T3:201:CYC:HB	1.79	0.47
1:U3:35:ARG:O	1:U3:39:ILE:HG12	2.14	0.47
1:a3:5:THR:O	1:a3:9:VAL:HG12	2.14	0.47
1:c3:6:LYS:HZ1	1:c3:100:ASP:HB3	1.79	0.47
4:z3:22:GLU:N	6:z3:101:CYC:OB	2.48	0.47
5:j3:20:VAL:CG1	5:j3:174:GLY:HA3	2.45	0.47
5:j3:1051:GLU:HB2	5:j3:1052:PRO:HD3	1.96	0.47
5:k3:450:ARG:CZ	5:k3:454:GLN:HB3	2.43	0.47
5:k3:503:LYS:HE3	5:k3:503:LYS:HB3	1.63	0.47
5:k3:880:THR:HG22	5:k3:881:VAL:O	2.14	0.47
5:k3:1003:GLN:HG2	5:k3:1112:PRO:HB2	1.96	0.47
2:h3:135:GLU:OE1	2:h3:135:GLU:HA	2.15	0.47
2:F1:5:ILE:H	2:F1:5:ILE:HD12	1.79	0.47
2:G1:57:ALA:HA	2:G1:61:ILE:HD11	1.96	0.47
2:G1:90:ARG:HG2	2:G1:94:TYR:CE2	2.50	0.47
2:I1:148:GLU:O	2:I1:151:ILE:HG12	2.15	0.47
3:K1:35:LEU:O	3:K1:39:VAL:HG23	2.13	0.47
1:A2:40:ALA:O	1:A2:44:THR:HG22	2.15	0.47
1:A2:105:GLU:CG	1:A2:109:ILE:HD11	2.43	0.47
2:B2:36:VAL:CG1	2:B2:145:ALA:HB2	2.43	0.47
1:C2:59:PHE:CZ	1:C2:78:THR:HG23	2.49	0.47
1:G2:50:ILE:HA	1:G2:136:VAL:CG1	2.41	0.47
1:I2:64:ASP:HA	1:I2:67:SER:OG	2.14	0.47
1:M2:37:LEU:HD22	2:N2:24:LEU:CD2	2.44	0.47
2:R2:147:LYS:H	2:R2:147:LYS:HE2	1.80	0.47
1:U2:24:ASP:CA	1:U2:27:LYS:HE2	2.43	0.47
1:W2:101:VAL:HB	1:W2:155:TYR:CE2	2.50	0.47
2:Z2:72:MET:HE1	2:Z2:81:CYS:HB3	1.96	0.47
1:a2:144:ASP:OD1	1:a2:145:ASP:N	2.48	0.47
2:b2:148:GLU:O	2:b2:151:ILE:HG12	2.14	0.47
1:c2:21:GLY:HA3	1:m2:100:ASP:CG	2.39	0.47
1:c2:50:ILE:HD11	1:c2:140:LEU:HD12	1.96	0.47
2:d2:2:GLN:HG2	2:d2:102:SER:CB	2.44	0.47
2:d2:130:ILE:HA	2:d2:133:MET:CE	2.38	0.47
1:g2:2:SER:OG	2:h2:3:ASP:OD2	2.33	0.47
1:g2:77:MET:CE	1:g2:80:LEU:HD12	2.44	0.47
1:g2:144:ASP:OD1	1:g2:145:ASP:N	2.47	0.47
2:h2:35:ALA:O	2:h2:39:ARG:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h2:96:MET:HA	2:h2:152:TYR:CE2	2.49	0.47
1:i2:64:ASP:HA	1:i2:67:SER:HG	1.79	0.47
2:j2:78:TYR:O	2:j2:82:ILE:HG12	2.14	0.47
1:k2:8:ILE:HG21	2:l2:1:MET:HE1	1.97	0.47
1:k2:93:THR:O	1:k2:97:VAL:HG13	2.14	0.47
1:o2:17:TYR:CE2	2:p2:90:ARG:HA	2.49	0.47
1:o2:78:THR:O	1:o2:82:LEU:HD23	2.14	0.47
2:p2:141:VAL:HG21	2:p2:146:ALA:HA	1.96	0.47
2:t2:114:GLU:HA	2:t2:117:ASN:OD1	2.15	0.47
4:z2:5:PHE:HB2	4:z2:32:VAL:HG13	1.97	0.47
4:x2:3:ARG:HG2	4:x2:59:GLY:HA3	1.96	0.47
2:B3:10:ASN:HD22	5:k3:555:ALA:HB1	1.79	0.47
1:C3:22:GLU:HA	1:C3:25:ARG:HH12	1.79	0.47
1:C3:110:ILE:CD1	4:z3:15:LYS:HB2	2.41	0.47
6:C3:201:CYC:HMA1	6:C3:201:CYC:NB	2.26	0.47
2:D3:10:ASN:O	2:D3:14:VAL:HG13	2.15	0.47
2:D3:76:ARG:NH1	1:E3:106:GLU:HB3	2.30	0.47
2:F3:61:ILE:HG13	2:F3:62:TYR:CD2	2.49	0.47
1:G3:109:ILE:HD12	1:G3:110:ILE:N	2.30	0.47
2:H3:1:MET:HB2	2:H3:2:GLN:H	1.55	0.47
1:I3:4:LEU:CD1	1:I3:26:ILE:HD11	2.44	0.47
1:I3:11:ALA:HA	1:I3:16:ARG:HH12	1.80	0.47
1:K3:102:THR:HG23	1:K3:103:PRO:CD	2.44	0.47
1:M3:109:ILE:HD12	1:M3:159:ALA:CB	2.45	0.47
1:M3:113:LYS:HB2	1:M3:113:LYS:HE3	1.67	0.47
1:W3:64:ASP:HA	1:W3:67:SER:OG	2.14	0.47
2:X3:127:VAL:HG21	2:X3:161:SER:OG	2.14	0.47
1:Y3:48:GLU:OE2	1:Y3:48:GLU:N	2.38	0.47
1:Y3:107:ILE:HD13	2:Z3:13:ASP:OD2	2.14	0.47
1:Y3:126:VAL:HG12	1:Y3:160:MET:HE1	1.96	0.47
1:a3:113:LYS:NZ	1:a3:161:GLN:OXT	2.48	0.47
1:a3:134:LYS:NZ	1:a3:154:ASP:OD1	2.34	0.47
1:e3:4:LEU:HB2	2:h3:3:ASP:OD2	2.15	0.47
1:e3:138:THR:OG1	1:e3:146:ALA:HB1	2.15	0.47
1:e3:144:ASP:N	1:e3:144:ASP:OD1	2.47	0.47
2:f3:61:ILE:HD12	2:f3:62:TYR:CZ	2.49	0.47
5:j3:67:ILE:CD1	5:j3:209:ASN:HB3	2.45	0.47
5:j3:77:VAL:CG1	5:j3:141:GLU:HG2	2.45	0.47
5:j3:82:MET:N	5:j3:82:MET:HE2	2.29	0.47
5:j3:992:GLU:OE1	5:j3:992:GLU:N	2.44	0.47
5:k3:15:ARG:HD3	5:k3:16:LEU:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k3:357:LEU:CD2	5:k3:382:ILE:HD12	2.44	0.47
5:k3:511:ARG:NH1	5:k3:683:ARG:O	2.48	0.47
5:k3:568:ILE:HD13	5:k3:590:GLU:HB3	1.96	0.47
5:k3:614:ARG:HB2	5:k3:657:PHE:CE2	2.49	0.47
5:k3:747:LYS:O	5:k3:750:ARG:NH1	2.47	0.47
5:k3:937:GLU:O	5:k3:941:THR:HG22	2.14	0.47
2:h3:85:MET:HG2	2:h3:133:MET:SD	2.54	0.47
2:B1:47:ASN:HB2	2:B1:50:THR:OG1	2.14	0.47
1:C1:33:GLY:HA2	1:C1:36:ARG:HG2	1.97	0.47
1:C1:38:ARG:O	1:C1:42:THR:HG23	2.13	0.47
2:F1:21:GLY:HA2	2:F1:24:LEU:CD2	2.45	0.47
2:I1:103:ILE:HG13	2:I1:107:ARG:HD2	1.96	0.47
2:J1:147:LYS:HD2	2:J1:148:GLU:HG2	1.95	0.47
3:L1:144:ALA:O	3:L1:148:ILE:HG12	2.15	0.47
4:z1:8:THR:OG1	4:z1:29:THR:OG1	2.07	0.47
4:z1:9:ALA:O	4:z1:27:PHE:HA	2.15	0.47
2:B2:76:ARG:HB2	1:C2:110:ILE:HG13	1.96	0.47
1:G2:106:GLU:HA	1:G2:110:ILE:CD1	2.45	0.47
2:H2:73:TYR:O	2:H2:74:THR:OG1	2.28	0.47
1:Q2:4:LEU:O	1:Q2:8:ILE:HG12	2.14	0.47
1:a2:116:TYR:CE2	1:a2:126:VAL:HG21	2.49	0.47
2:b2:73:TYR:O	2:b2:77:ARG:HB2	2.14	0.47
1:k2:158:GLY:HA2	1:k2:161:GLN:OE1	2.15	0.47
2:l2:127:VAL:HG22	2:l2:160:LEU:HD12	1.95	0.47
2:l2:130:ILE:CD1	2:l2:160:LEU:HD11	2.44	0.47
2:n2:60:LEU:HD13	2:n2:72:MET:HE1	1.97	0.47
2:n2:114:GLU:OE2	2:n2:114:GLU:N	2.39	0.47
2:r2:95:ALA:HB2	2:r2:104:LEU:HG	1.95	0.47
1:I3:104:ILE:HD12	1:I3:156:LEU:HD21	1.96	0.47
1:K3:106:GLU:OE1	4:i3:66:GLY:N	2.47	0.47
2:N3:127:VAL:O	2:N3:131:GLN:HG2	2.15	0.47
1:O3:91:LEU:HD11	1:O3:107:ILE:CG2	2.42	0.47
2:P3:36:VAL:CG1	2:P3:145:ALA:HB2	2.44	0.47
2:X3:1:MET:N	2:X3:106:GLU:OE1	2.39	0.47
2:b3:44:ILE:CD1	2:b3:96:MET:HE1	2.44	0.47
1:c3:105:GLU:O	1:c3:110:ILE:HG13	2.15	0.47
5:j3:56:ILE:O	5:j3:60:LEU:HD13	2.15	0.47
5:j3:760:ASP:OD1	5:j3:763:SER:HB3	2.14	0.47
5:k3:77:VAL:CG1	5:k3:141:GLU:HG2	2.45	0.47
5:k3:586:LEU:HD21	5:k3:610:SER:HB3	1.96	0.47
5:k3:743:VAL:HG13	6:k3:1202:CYC:CGD	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C1:201:CYC:HMD1	6:C1:201:CYC:NC	2.22	0.47
2:I1:76:ARG:HD2	4:M1:14:LEU:CA	2.45	0.47
2:J1:34:GLY:HA2	2:J1:37:ARG:CD	2.45	0.47
4:z1:3:ARG:HB2	4:z1:58:THR:HB	1.97	0.47
1:I2:71:ASN:ND2	1:I2:120:GLN:O	2.47	0.47
1:I2:128:GLU:HA	1:I2:131:ARG:NH1	2.30	0.47
1:M2:91:LEU:HB3	1:M2:104:ILE:HG23	1.97	0.47
1:S2:96:ILE:HD11	1:S2:149:ALA:HA	1.97	0.47
2:Z2:148:GLU:O	2:Z2:151:ILE:HG12	2.14	0.47
1:e2:114:GLU:OE1	1:e2:115:MET:HE2	2.14	0.47
1:g2:106:GLU:HA	1:g2:110:ILE:CD1	2.43	0.47
2:j2:148:GLU:O	2:j2:151:ILE:HG12	2.15	0.47
1:O3:115:MET:HG3	1:O3:116:TYR:N	2.29	0.47
1:Q3:64:ASP:HA	1:Q3:67:SER:OG	2.15	0.47
1:W3:53:GLN:HG3	1:W3:136:VAL:HG21	1.97	0.47
2:Z3:83:ARG:HD2	5:k3:383:SER:OG	2.15	0.47
1:c3:34:GLU:OE1	1:c3:34:GLU:N	2.43	0.47
2:B1:12:TYR:HE2	2:B1:23:ALA:HB2	1.80	0.47
2:D1:8:VAL:HG11	2:D1:27:LEU:CD2	2.45	0.47
2:J1:34:GLY:O	2:J1:37:ARG:HB2	2.15	0.47
6:J1:201:CYC:HMA1	6:J1:201:CYC:NB	2.26	0.47
1:C2:38:ARG:NH2	1:C2:145:ASP:OD2	2.47	0.47
1:I2:109:ILE:HD11	1:I2:156:LEU:CD2	2.44	0.47
1:I2:140:LEU:O	1:I2:141:LEU:HD23	2.15	0.47
2:J2:12:TYR:OH	2:J2:20:ASP:OD1	2.29	0.47
1:K2:18:LEU:HD22	2:L2:97:LEU:CD1	2.44	0.47
1:Q2:54:ALA:CB	1:Q2:133:MET:HG2	2.45	0.47
1:Q2:72:ALA:HA	1:Q2:77:MET:CG	2.45	0.47
1:Q2:156:LEU:O	1:Q2:160:MET:HE3	2.15	0.47
1:S2:105:GLU:OE1	1:S2:106:GLU:HG3	2.14	0.47
6:S2:201:CYC:HMD1	6:S2:201:CYC:NC	2.21	0.47
2:X2:112:LEU:HD23	2:X2:160:LEU:HD21	1.97	0.47
2:d2:36:VAL:CG1	2:d2:145:ALA:HB2	2.45	0.47
6:g2:201:CYC:HMA1	6:g2:201:CYC:NB	2.29	0.47
1:i2:156:LEU:HA	1:i2:156:LEU:HD23	1.73	0.47
1:o2:92:VAL:CG2	1:o2:156:LEU:HD12	2.44	0.47
1:o2:133:MET:HA	1:o2:136:VAL:HG22	1.95	0.47
1:C3:64:ASP:HA	1:C3:67:SER:OG	2.14	0.47
1:S3:62:ARG:NH2	1:S3:64:ASP:OD2	2.47	0.47
1:U3:105:GLU:HA	1:U3:109:ILE:CG1	2.45	0.47
1:W3:131:ARG:O	1:W3:134:LYS:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a3:19:SER:HB3	1:a3:22:GLU:CG	2.38	0.47
5:j3:56:ILE:HD11	5:j3:219:ASP:HB3	1.97	0.47
5:k3:85:SER:HB2	5:k3:157:ILE:HG12	1.97	0.47
5:k3:487:PHE:HZ	5:k3:629:TYR:HB2	1.80	0.47
2:B1:73:TYR:O	2:B1:74:THR:OG1	2.28	0.46
2:F1:114:GLU:HG2	4:z1:54:VAL:CG2	2.40	0.46
1:H1:22:GLU:O	1:H1:26:ILE:HG12	2.16	0.46
6:M1:101:CYC:HMD3	6:M1:101:CYC:HC	1.79	0.46
2:H2:12:TYR:CE1	2:H2:23:ALA:HB2	2.50	0.46
1:K2:83:ARG:HD3	5:j3:725:LEU:CD2	2.40	0.46
1:K2:105:GLU:CG	1:K2:109:ILE:HD11	2.43	0.46
1:K2:122:PRO:HG2	1:K2:125:ALA:HB3	1.98	0.46
1:M2:53:GLN:HB2	1:M2:136:VAL:HG21	1.95	0.46
2:R2:1:MET:HE2	2:R2:1:MET:C	2.40	0.46
2:R2:51:ILE:HD11	2:R2:140:LEU:HD22	1.97	0.46
2:R2:85:MET:HE2	2:R2:133:MET:SD	2.55	0.46
1:S2:126:VAL:HG23	6:S2:201:CYC:HMC2	1.97	0.46
2:T2:55:ALA:HB1	2:T2:133:MET:HG2	1.97	0.46
2:X2:137:VAL:O	2:X2:141:VAL:HG12	2.15	0.46
2:Z2:79:ALA:HA	2:Z2:82:ILE:HG12	1.96	0.46
1:c2:50:ILE:CG2	1:c2:136:VAL:HB	2.41	0.46
1:e2:26:ILE:O	1:e2:30:VAL:HG13	2.15	0.46
1:e2:142:SER:OG	1:e2:144:ASP:OD1	2.33	0.46
1:g2:59:PHE:CZ	1:g2:78:THR:HG23	2.50	0.46
1:i2:19:SER:HB2	1:i2:22:GLU:HG3	1.96	0.46
1:k2:68:PRO:HA	1:k2:73:TYR:CE2	2.50	0.46
1:k2:109:ILE:HD12	1:k2:112:VAL:CG1	2.45	0.46
1:k2:126:VAL:HG22	6:k2:201:CYC:H3C	1.96	0.46
1:m2:94:TYR:HB3	1:m2:104:ILE:HD11	1.97	0.46
1:m2:94:TYR:OH	2:n2:17:LYS:O	2.28	0.46
6:m2:201:CYC:HMD1	6:m2:201:CYC:NC	2.21	0.46
2:p2:68:PRO:HA	2:p2:73:TYR:CG	2.50	0.46
2:p2:137:VAL:HG21	2:p2:153:PHE:CE2	2.49	0.46
2:J3:72:MET:HB2	2:J3:72:MET:HE3	1.71	0.46
1:K3:35:ARG:HG3	1:K3:38:ARG:NH2	2.29	0.46
1:K3:53:GLN:HA	1:K3:56:ASP:OD1	2.15	0.46
6:U3:201:CYC:HMA1	6:U3:201:CYC:NB	2.28	0.46
1:c3:6:LYS:CE	1:c3:102:THR:HG23	2.45	0.46
1:c3:22:GLU:O	1:c3:26:ILE:HG13	2.15	0.46
2:d3:147:LYS:O	2:d3:151:ILE:HG13	2.15	0.46
1:e3:53:GLN:O	1:e3:57:GLN:HG3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:g3:55:ALA:CB	2:g3:133:MET:HG2	2.45	0.46
2:g3:92:ALA:HA	2:g3:95:ALA:CB	2.43	0.46
5:j3:487:PHE:CZ	5:j3:629:TYR:HB2	2.50	0.46
5:j3:1069:ARG:NH1	5:j3:1072:ILE:HG13	2.30	0.46
2:h3:41:ALA:HB2	2:h3:97:LEU:HD13	1.96	0.46
2:h3:73:TYR:CD2	2:h3:74:THR:HG23	2.50	0.46
2:F1:10:ASN:HB3	3:K1:106:ARG:HH21	1.81	0.46
2:G1:29:ALA:O	2:G1:32:THR:OG1	2.28	0.46
2:I1:105:ASP:OD2	2:I1:155:TYR:OH	2.28	0.46
1:G2:105:GLU:HG2	1:G2:109:ILE:CD1	2.40	0.46
1:G2:110:ILE:CD1	2:L2:76:ARG:HD3	2.46	0.46
1:O2:68:PRO:HA	1:O2:73:TYR:CE2	2.50	0.46
2:V2:51:ILE:HG23	2:V2:136:VAL:HG21	1.97	0.46
2:X2:51:ILE:HD11	2:X2:140:LEU:HD22	1.97	0.46
6:b2:201:CYC:HMA1	6:b2:201:CYC:HB	1.80	0.46
1:e2:22:GLU:HA	1:e2:25:ARG:HG2	1.96	0.46
1:e2:110:ILE:O	1:e2:110:ILE:HD12	2.14	0.46
2:f2:36:VAL:HA	2:f2:39:ARG:CD	2.42	0.46
2:f2:127:VAL:HG13	2:f2:157:SER:OG	2.14	0.46
1:o2:42:THR:OG1	1:o2:141:LEU:HD21	2.14	0.46
1:q2:4:LEU:CD2	1:q2:26:ILE:HD13	2.43	0.46
2:v2:28:LYS:HA	2:v2:31:PHE:CD2	2.50	0.46
2:B3:144:ASP:N	2:B3:144:ASP:OD1	2.46	0.46
1:I3:36:ARG:NH1	1:I3:99:GLY:HA2	2.30	0.46
2:Z3:132:ALA:O	2:Z3:136:VAL:HG23	2.15	0.46
2:f3:105:ASP:OD2	2:f3:155:TYR:OH	2.17	0.46
2:g3:83:ARG:CD	5:k3:259:PRO:HD3	2.45	0.46
5:j3:77:VAL:HG13	5:j3:141:GLU:HG2	1.97	0.46
5:j3:190:LEU:C	5:j3:194:CYS:HB2	2.40	0.46
5:j3:586:LEU:HD13	5:j3:607:LEU:CD2	2.46	0.46
5:k3:151:GLU:CD	5:k3:152:ARG:HG2	2.40	0.46
5:k3:222:LEU:HA	5:k3:222:LEU:HD23	1.73	0.46
2:h3:85:MET:HA	2:h3:87:TYR:O	2.16	0.46
1:C1:89:LEU:HB2	1:C1:133:MET:CE	2.44	0.46
2:D1:11:ASN:O	2:D1:14:VAL:HG22	2.15	0.46
2:I1:71:MEN:OD1	2:I1:121:VAL:HG22	2.15	0.46
2:I1:73:TYR:O	2:I1:77:ARG:HB2	2.15	0.46
2:I1:147:LYS:HE3	2:I1:147:LYS:HB3	1.68	0.46
2:J1:147:LYS:HA	2:J1:150:SER:OG	2.15	0.46
2:D2:24:LEU:O	2:D2:28:LYS:HG2	2.15	0.46
2:J2:65:LEU:HB3	2:J2:72:MET:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R2:64:ASP:HA	2:R2:67:ARG:CD	2.44	0.46
1:S2:58:LEU:HA	1:S2:61:ILE:HG22	1.98	0.46
2:T2:94:TYR:HB3	2:T2:103:ILE:HD13	1.97	0.46
2:X2:61:ILE:HG13	2:X2:62:TYR:CD2	2.50	0.46
1:Y2:61:ILE:HG21	1:Y2:128:GLU:HG2	1.97	0.46
1:Y2:64:ASP:N	1:Y2:64:ASP:OD1	2.48	0.46
1:c2:76:LYS:H	1:c2:76:LYS:HG2	1.35	0.46
2:j2:39:ARG:O	2:j2:43:VAL:HG23	2.15	0.46
1:q2:85:LEU:CD2	6:q2:201:CYC:HBC1	2.39	0.46
2:r2:57:ALA:HA	2:r2:61:ILE:CD1	2.45	0.46
1:u2:122:PRO:O	1:u2:126:VAL:HG23	2.15	0.46
2:v2:51:ILE:HG23	2:v2:136:VAL:CG2	2.44	0.46
2:v2:88:PHE:HZ	2:v2:112:LEU:HD21	1.81	0.46
2:D3:76:ARG:NH2	4:z3:63:ALA:O	2.49	0.46
1:E3:142:SER:OG	1:E3:145:ASP:OD1	2.33	0.46
2:J3:148:GLU:O	2:J3:151:ILE:HG12	2.15	0.46
1:K3:14:GLU:OE1	1:K3:16:ARG:NE	2.42	0.46
2:N3:147:LYS:HD3	2:N3:148:GLU:H	1.80	0.46
1:Q3:15:ALA:HA	2:R3:90:ARG:NH1	2.31	0.46
1:e3:65:VAL:HG23	1:e3:66:VAL:HG23	1.97	0.46
2:g3:74:THR:HG22	5:k3:162:TRP:CZ2	2.41	0.46
5:j3:261:ILE:HD11	2:h3:79:ALA:CB	2.45	0.46
5:k3:184:LEU:HD12	5:k3:261:ILE:HG22	1.96	0.46
5:k3:208:LYS:O	5:k3:212:ARG:HG2	2.16	0.46
5:k3:971:VAL:HG23	5:k3:1124:TYR:OH	2.15	0.46
5:k3:1119:LEU:HG	5:k3:1120:PRO:HD3	1.96	0.46
2:h3:114:GLU:OE2	2:h3:114:GLU:N	2.43	0.46
1:A1:2:SER:HB2	1:A1:98:ALA:O	2.14	0.46
1:A1:122:PRO:HG2	1:A1:125:ALA:HB3	1.98	0.46
1:C1:122:PRO:HG2	6:C1:201:CYC:HMC1	1.96	0.46
2:F1:83:ARG:HH12	5:k3:391:SER:HB2	1.81	0.46
2:G1:114:GLU:CG	5:j3:281:ASP:HB2	2.45	0.46
1:H1:18:LEU:HD23	1:H1:18:LEU:HA	1.77	0.46
2:J1:57:ALA:HA	2:J1:61:ILE:HD11	1.97	0.46
1:A2:61:ILE:HG21	1:A2:128:GLU:HG2	1.97	0.46
1:A2:126:VAL:HG22	6:A2:201:CYC:H3C	1.98	0.46
1:E2:61:ILE:HG12	1:E2:128:GLU:OE2	2.16	0.46
2:F2:61:ILE:HG13	2:F2:62:TYR:CD2	2.51	0.46
1:O2:24:ASP:HA	1:O2:27:LYS:HD2	1.98	0.46
2:d2:10:ASN:O	2:d2:14:VAL:HG13	2.15	0.46
1:g2:83:ARG:NH2	1:g2:84:ASP:OD1	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g2:101:VAL:HG23	1:g2:105:GLU:OE1	2.16	0.46
2:h2:146:ALA:HB3	2:h2:147:LYS:NZ	2.30	0.46
1:i2:62:ARG:O	1:i2:65:VAL:HG22	2.15	0.46
1:i2:112:VAL:HA	1:i2:115:MET:HB2	1.96	0.46
1:q2:65:VAL:O	1:q2:70:GLY:HA3	2.16	0.46
1:q2:106:GLU:O	1:q2:107:ILE:HD13	2.15	0.46
1:u2:17:TYR:CE2	2:v2:90:ARG:HA	2.51	0.46
2:D3:41:ALA:N	2:D3:96:MET:HE1	2.30	0.46
1:E3:2:SER:O	1:E3:6:LYS:HG2	2.15	0.46
2:F3:36:VAL:HG12	2:F3:145:ALA:HB2	1.96	0.46
2:P3:54:GLU:OE1	2:P3:54:GLU:N	2.49	0.46
2:R3:132:ALA:O	2:R3:136:VAL:HG23	2.15	0.46
2:R3:137:VAL:O	2:R3:141:VAL:HG22	2.15	0.46
2:T3:71:MEN:O	2:T3:77:ARG:HG2	2.15	0.46
1:U3:134:LYS:HE3	1:U3:153:PHE:HB2	1.98	0.46
2:f3:73:TYR:O	2:f3:77:ARG:HB2	2.16	0.46
6:g3:201:CYC:HC	6:g3:201:CYC:HMD3	1.78	0.46
5:j3:138:PRO:CB	5:j3:201:VAL:HG11	2.43	0.46
5:j3:487:PHE:HZ	5:j3:629:TYR:HB2	1.81	0.46
5:j3:912:VAL:HG12	5:j3:913:VAL:HG23	1.97	0.46
6:j3:1204:CYC:HC	6:j3:1204:CYC:HMD3	1.80	0.46
5:k3:70:ARG:O	5:k3:74:ARG:HG3	2.16	0.46
5:k3:331:ARG:NH2	5:k3:407:ASP:HA	2.31	0.46
5:k3:1126:ALA:O	5:k3:1130:VAL:HG13	2.15	0.46
1:C1:62:ARG:O	1:C1:65:VAL:HG22	2.16	0.46
1:H1:101:VAL:HG11	1:H1:155:TYR:HD2	1.80	0.46
2:F2:73:TYR:O	2:F2:74:THR:OG1	2.29	0.46
1:K2:77:MET:HE1	6:K2:201:CYC:CGD	2.46	0.46
1:K2:82:LEU:CB	5:j3:722:ILE:HD13	2.46	0.46
2:N2:55:ALA:CB	2:N2:133:MET:HG3	2.45	0.46
1:Q2:12:ASP:OD1	2:R2:91:TYR:OH	2.23	0.46
2:f2:85:MET:HE2	2:f2:85:MET:HB2	1.77	0.46
2:h2:137:VAL:O	2:h2:141:VAL:HG22	2.15	0.46
2:j2:5:ILE:HG12	2:j2:27:LEU:HD11	1.98	0.46
1:k2:122:PRO:O	1:k2:126:VAL:HG23	2.15	0.46
1:k2:123:ILE:HB	1:k2:124:PRO:HD3	1.98	0.46
1:m2:53:GLN:N	1:m2:53:GLN:OE1	2.48	0.46
1:o2:50:ILE:HG23	1:o2:136:VAL:HG23	1.97	0.46
1:o2:158:GLY:HA2	1:o2:161:GLN:HE21	1.80	0.46
2:r2:148:GLU:HA	2:r2:151:ILE:HD13	1.98	0.46
1:s2:134:LYS:O	1:s2:138:THR:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H3:201:CYC:OB	4:i3:21:ARG:HA	2.16	0.46
2:J3:114:GLU:HA	2:J3:117:ASN:ND2	2.30	0.46
1:Y3:74:GLY:O	1:Y3:78:THR:HG23	2.16	0.46
5:j3:485:ALA:HB2	5:j3:629:TYR:CZ	2.51	0.46
5:j3:538:PHE:HB3	5:j3:567:LEU:CD2	2.44	0.46
5:j3:719:MET:O	5:j3:723:GLN:HB2	2.16	0.46
2:h3:75:THR:O	2:h3:76:ARG:HG2	2.15	0.46
1:C1:33:GLY:O	1:C1:37:LEU:HG	2.16	0.46
2:I1:40:ALA:HB3	2:I1:96:MET:HE2	1.97	0.46
2:J1:36:VAL:HG12	2:J1:145:ALA:HB2	1.97	0.46
3:K1:157:ILE:CD1	2:g3:46:SER:HB2	2.46	0.46
1:G2:64:ASP:HA	1:G2:67:SER:OG	2.16	0.46
1:G2:68:PRO:HA	1:G2:73:TYR:CD2	2.50	0.46
1:M2:34:GLU:HA	2:N2:28:LYS:NZ	2.30	0.46
2:N2:57:ALA:HA	2:N2:61:ILE:CD1	2.46	0.46
1:O2:40:ALA:CB	1:O2:97:VAL:HG13	2.46	0.46
2:R2:116:TYR:CB	2:R2:121:VAL:HB	2.46	0.46
1:U2:4:LEU:CD2	1:U2:26:ILE:HD12	2.45	0.46
6:U2:201:CYC:HMA1	6:U2:201:CYC:NB	2.29	0.46
1:W2:3:VAL:HA	1:W2:6:LYS:HG2	1.98	0.46
2:X2:131:GLN:O	2:X2:135:GLU:HG2	2.16	0.46
1:Y2:10:ASN:O	1:Y2:14:GLU:HG3	2.16	0.46
2:b2:58:LYS:HB3	2:b2:58:LYS:HE3	1.59	0.46
1:c2:90:ARG:HH12	2:d2:16:GLY:HA2	1.81	0.46
2:h2:57:ALA:HA	2:h2:61:ILE:CD1	2.45	0.46
1:k2:58:LEU:HA	1:k2:61:ILE:HG22	1.98	0.46
1:k2:91:LEU:HD11	1:k2:107:ILE:CB	2.41	0.46
2:l2:57:ALA:HA	2:l2:61:ILE:HD11	1.96	0.46
1:m2:16:ARG:O	2:n2:94:TYR:OH	2.33	0.46
1:q2:85:LEU:HB3	1:q2:133:MET:CE	2.46	0.46
1:q2:123:ILE:HB	1:q2:124:PRO:HD3	1.98	0.46
1:s2:48:GLU:HB2	1:s2:49:ARG:NH1	2.31	0.46
1:u2:52:LYS:HD3	5:j3:952:PHE:CZ	2.51	0.46
2:v2:25:ASP:HA	2:v2:28:LYS:CD	2.41	0.46
2:v2:36:VAL:O	2:v2:39:ARG:HG2	2.15	0.46
1:C3:4:LEU:HD13	1:C3:26:ILE:HD11	1.98	0.46
2:D3:56:ALA:O	2:D3:61:ILE:HG12	2.15	0.46
1:G3:64:ASP:O	1:G3:67:SER:HB2	2.14	0.46
6:K3:201:CYC:HMA1	6:K3:201:CYC:NB	2.27	0.46
2:P3:61:ILE:HA	2:P3:66:THR:HG21	1.96	0.46
1:Q3:54:ALA:CB	1:Q3:133:MET:HG3	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q3:77:MET:HA	1:Q3:77:MET:HE3	1.98	0.46
1:a3:53:GLN:O	1:a3:57:GLN:HG3	2.15	0.46
5:j3:1012:PRO:HD2	5:j3:1017:ARG:HH12	1.81	0.46
5:k3:65:GLU:HG2	5:k3:87:ARG:HH21	1.81	0.46
5:k3:637:ARG:HB3	5:k3:684:TYR:CD1	2.48	0.46
5:k3:1069:ARG:NH1	5:k3:1070:ALA:O	2.48	0.46
1:A1:64:ASP:OD1	1:A1:64:ASP:N	2.38	0.46
1:A1:76:LYS:HE3	1:A1:77:MET:HE3	1.97	0.46
1:A1:85:LEU:HG	6:A1:201:CYC:HBC1	1.97	0.46
2:D1:36:VAL:CG2	2:D1:145:ALA:HB2	2.45	0.46
1:H1:57:GLN:HA	1:H1:60:GLN:OE1	2.16	0.46
2:J1:19:LEU:HD13	3:L1:97:VAL:HG21	1.97	0.46
3:K1:96:ILE:HA	3:K1:152:TYR:CE1	2.50	0.46
4:M1:7:VAL:HG11	4:M1:37:TRP:CZ3	2.50	0.46
4:M1:8:THR:CG2	4:M1:52:LEU:HB2	2.40	0.46
4:M1:28:PHE:HA	5:j3:277:ILE:HD13	1.96	0.46
2:F2:122:PRO:HG2	2:F2:125:ALA:HB3	1.98	0.46
1:G2:54:ALA:CB	1:G2:133:MET:HG2	2.46	0.46
1:G2:87:TYR:HB3	6:G2:201:CYC:HBB3	1.97	0.46
2:J2:33:THR:HG21	5:j3:930:LEU:HB3	1.98	0.46
1:M2:112:VAL:C	1:M2:115:MET:HB2	2.41	0.46
1:M2:160:MET:HA	1:M2:160:MET:CE	2.40	0.46
2:T2:36:VAL:O	2:T2:39:ARG:HG2	2.15	0.46
2:Z2:107:ARG:HB2	2:Z2:107:ARG:NH1	2.30	0.46
1:c2:21:GLY:HA2	1:m2:100:ASP:HA	1.98	0.46
1:g2:20:PRO:HD2	1:u2:101:VAL:HG11	1.98	0.46
1:g2:101:VAL:HG23	1:g2:105:GLU:CD	2.40	0.46
1:g2:127:ALA:HB2	1:g2:160:MET:HE3	1.97	0.46
2:h2:122:PRO:HG2	6:h2:201:CYC:HMC2	1.98	0.46
1:i2:20:PRO:HD3	1:s2:155:TYR:CD1	2.50	0.46
2:l2:57:ALA:HA	2:l2:61:ILE:CD1	2.46	0.46
1:m2:54:ALA:HA	1:m2:132:ALA:HB1	1.98	0.46
2:p2:19:LEU:HD13	2:p2:23:ALA:CB	2.45	0.46
1:A3:26:ILE:O	1:A3:30:VAL:HG13	2.15	0.46
1:C3:78:THR:O	1:C3:82:LEU:HG	2.16	0.46
1:E3:16:ARG:O	2:F3:94:TYR:OH	2.33	0.46
2:L3:85:MET:CE	2:L3:133:MET:HE3	2.46	0.46
1:Q3:138:THR:OG1	1:Q3:146:ALA:HB1	2.16	0.46
2:R3:119:LEU:HD11	6:R3:201:CYC:HAA1	1.97	0.46
1:W3:91:LEU:HD11	1:W3:107:ILE:HG22	1.98	0.46
2:g3:141:VAL:HG12	2:g3:145:ALA:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:215:LYS:HB2	5:j3:217:GLU:OE2	2.16	0.46
5:j3:575:ILE:HD12	5:j3:607:LEU:HD12	1.98	0.46
5:j3:601:LYS:NZ	5:j3:671:GLN:OE1	2.49	0.46
5:j3:668:ASN:O	5:j3:672:GLU:HG3	2.16	0.46
5:k3:335:ARG:NH2	5:k3:407:ASP:OD1	2.49	0.46
5:k3:804:GLU:OE1	5:k3:807:ARG:NH1	2.49	0.46
2:h3:5:ILE:HD12	2:h3:27:LEU:HD22	1.97	0.46
1:H1:33:GLY:HA3	2:I1:31:PHE:CZ	2.51	0.46
3:L1:3:VAL:O	3:L1:7:THR:HG23	2.15	0.46
1:A2:101:VAL:O	1:A2:104:ILE:HG13	2.16	0.46
2:D2:47:ASN:O	2:D2:51:ILE:HD12	2.16	0.46
1:E2:82:LEU:CB	5:k3:722:ILE:HD13	2.46	0.46
2:P2:57:ALA:HA	2:P2:61:ILE:CD1	2.46	0.46
1:Q2:108:GLY:C	1:Q2:109:ILE:HD12	2.41	0.46
1:c2:85:LEU:HD22	1:c2:133:MET:HE2	1.98	0.46
1:g2:99:GLY:O	1:g2:152:TYR:OH	2.34	0.46
2:h2:96:MET:HG2	2:h2:148:GLU:HG3	1.98	0.46
1:i2:3:VAL:HA	1:i2:6:LYS:NZ	2.30	0.46
2:n2:85:MET:HE3	2:n2:85:MET:HB3	1.64	0.46
2:r2:72:MET:SD	2:r2:78:TYR:HA	2.55	0.46
2:r2:134:LYS:HD2	2:r2:150:SER:OG	2.16	0.46
1:s2:41:GLN:O	1:s2:44:THR:HB	2.16	0.46
2:v2:68:PRO:HA	2:v2:73:TYR:CG	2.50	0.46
4:z2:41:GLN:O	4:z2:45:GLN:HG2	2.16	0.46
1:A3:19:SER:O	1:A3:20:PRO:C	2.58	0.46
1:E3:17:TYR:HE1	2:F3:90:ARG:HA	1.80	0.46
2:H3:23:ALA:HA	2:H3:26:LYS:HD2	1.98	0.46
1:K3:17:TYR:CE1	2:L3:90:ARG:HD3	2.51	0.46
1:a3:144:ASP:OD1	1:a3:144:ASP:N	2.49	0.46
2:b3:6:THR:HA	2:b3:9:ILE:HG22	1.98	0.46
2:b3:39:ARG:NH1	2:b3:39:ARG:HB3	2.31	0.46
4:i3:40:GLU:OE1	5:j3:601:LYS:HE3	2.16	0.46
5:j3:33:ARG:O	5:j3:34:TYR:HB2	2.16	0.46
5:j3:922:LYS:HZ3	5:k3:737:MET:HE1	1.79	0.46
5:j3:1105:ILE:HD13	5:j3:1115:ARG:NH1	2.29	0.46
1:A1:93:THR:O	1:A1:97:VAL:HG22	2.16	0.46
2:B1:76:ARG:NH2	5:k3:288:LEU:HD11	2.30	0.46
1:E1:39:ILE:O	1:E1:43:LEU:HG	2.15	0.46
1:H1:91:LEU:HB3	1:H1:104:ILE:HG23	1.98	0.46
3:L1:117:ARG:CZ	5:j3:242:PRO:HA	2.45	0.46
1:A2:39:ILE:CG1	1:A2:145:ASP:HB2	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:61:ILE:HG13	2:B2:62:TYR:CD2	2.51	0.46
1:E2:105:GLU:HG3	1:E2:155:TYR:OH	2.16	0.46
1:G2:43:LEU:HD21	1:G2:141:LEU:HD11	1.97	0.46
1:G2:126:VAL:HG22	6:G2:201:CYC:HMC1	1.98	0.46
2:P2:65:LEU:HB3	2:P2:72:MET:HG3	1.98	0.46
1:Q2:35:ARG:NH2	1:Q2:144:ASP:HB2	2.31	0.46
2:V2:57:ALA:HA	2:V2:61:ILE:CD1	2.45	0.46
2:j2:36:VAL:CG1	2:j2:145:ALA:HB2	2.45	0.46
2:j2:147:LYS:HE2	2:j2:147:LYS:N	2.31	0.46
1:m2:123:ILE:HG23	1:m2:160:MET:HG3	1.96	0.46
2:n2:96:MET:HA	2:n2:152:TYR:CE2	2.50	0.46
2:p2:73:TYR:O	2:p2:74:THR:OG1	2.30	0.46
2:r2:39:ARG:O	2:r2:43:VAL:HG23	2.16	0.46
1:u2:50:ILE:HD11	1:u2:140:LEU:HD12	1.98	0.46
1:E3:62:ARG:HH22	1:E3:125:ALA:HA	1.81	0.46
1:M3:101:VAL:HG21	1:M3:155:TYR:CE2	2.51	0.46
2:N3:61:ILE:HG13	2:N3:62:TYR:CD2	2.51	0.46
1:Q3:6:LYS:NZ	1:Q3:102:THR:OG1	2.23	0.46
1:Q3:49:ARG:NH2	1:Q3:140:LEU:HD21	2.31	0.46
2:T3:12:TYR:CE1	2:T3:23:ALA:HB2	2.51	0.46
1:W3:57:GLN:HA	1:W3:60:GLN:HG3	1.98	0.46
2:d3:91:TYR:OH	2:d3:107:ARG:NH2	2.49	0.46
5:j3:219:ASP:O	5:j3:223:VAL:HG23	2.16	0.46
5:j3:450:ARG:HG3	5:j3:494:PRO:O	2.16	0.46
5:j3:1126:ALA:O	5:j3:1130:VAL:HG13	2.16	0.46
5:k3:195:SER:HB3	5:k3:198:ALA:HB3	1.98	0.46
2:D1:94:TYR:HA	2:D1:97:LEU:CD2	2.46	0.46
1:H1:21:GLY:O	1:H1:24:ASP:HB2	2.16	0.46
4:M1:24:GLN:CD	5:j3:275:THR:HB	2.41	0.46
2:F2:81:CYS:HA	6:F2:201:CYC:HAC1	1.74	0.46
1:M2:76:LYS:HG3	1:M2:77:MET:HE3	1.96	0.46
1:Q2:22:GLU:O	1:Q2:26:ILE:HG23	2.16	0.46
1:S2:109:ILE:O	1:S2:112:VAL:HG12	2.15	0.46
1:S2:115:MET:HE2	1:S2:115:MET:CA	2.45	0.46
2:X2:5:ILE:HG12	2:X2:27:LEU:HD11	1.98	0.46
2:X2:143:PRO:O	2:X2:147:LYS:NZ	2.40	0.46
2:Z2:81:CYS:O	2:Z2:84:ASP:HB2	2.16	0.46
1:e2:59:PHE:HZ	1:e2:78:THR:HG23	1.80	0.46
1:e2:64:ASP:HA	1:e2:67:SER:OG	2.16	0.46
1:e2:65:VAL:HG23	1:e2:66:VAL:HG23	1.98	0.46
1:g2:91:LEU:CD2	1:g2:107:ILE:HG21	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i2:47:ARG:HD2	1:i2:48:GLU:N	2.30	0.46
1:i2:123:ILE:HB	1:i2:124:PRO:HD3	1.98	0.46
2:j2:73:TYR:O	2:j2:74:THR:OG1	2.30	0.46
2:j2:105:ASP:OD2	2:j2:155:TYR:OH	2.25	0.46
1:q2:111:GLY:HA2	1:q2:114:GLU:OE1	2.16	0.46
2:t2:63:SER:O	2:t2:66:THR:HG22	2.16	0.46
1:G3:2:SER:HA	1:G3:100:ASP:OD1	2.16	0.46
2:J3:89:LEU:HD13	2:J3:133:MET:HE3	1.98	0.46
2:J3:127:VAL:O	2:J3:131:GLN:HG2	2.15	0.46
6:M3:201:CYC:HMA1	6:M3:201:CYC:NB	2.26	0.46
2:P3:75:THR:HG22	1:Q3:115:MET:HE1	1.97	0.46
1:W3:134:LYS:HD3	1:W3:153:PHE:CB	2.46	0.46
1:W3:161:GLN:OE1	1:W3:161:GLN:N	2.49	0.46
2:b3:27:LEU:CD1	5:k3:172:LEU:HD22	2.46	0.46
2:b3:57:ALA:HA	2:b3:61:ILE:CD1	2.41	0.46
2:f3:5:ILE:O	2:f3:9:ILE:HG22	2.15	0.46
5:j3:180:GLU:O	5:j3:184:LEU:HB2	2.16	0.46
5:j3:223:VAL:HG12	5:j3:227:ILE:HD13	1.98	0.46
5:j3:314:GLN:HB3	5:j3:342:LEU:HD11	1.97	0.46
5:j3:325:ASN:ND2	6:j3:1201:CYC:HAA1	2.31	0.46
5:j3:568:ILE:HD13	5:j3:590:GLU:HB3	1.98	0.46
5:j3:911:LEU:HG	5:j3:914:PRO:HG3	1.96	0.46
5:k3:283:ARG:NH1	5:k3:284:PRO:HD3	2.31	0.46
5:k3:353:ASN:O	5:k3:357:LEU:HG	2.16	0.46
1:A1:151:PHE:HE2	1:Y3:27:LYS:HE3	1.81	0.45
1:C1:35:ARG:HA	1:C1:38:ARG:HE	1.81	0.45
2:D1:23:ALA:O	2:D1:27:LEU:HD23	2.16	0.45
2:D1:74:THR:HG22	3:K1:107:ILE:HG23	1.98	0.45
2:F1:76:ARG:NH1	4:z1:67:VAL:HG21	2.30	0.45
1:H1:39:ILE:HG23	1:H1:43:LEU:HD23	1.98	0.45
3:K1:119:LEU:HD22	3:K1:121:VAL:HB	1.98	0.45
3:K1:121:VAL:HG21	6:K1:201:CYC:C1D	2.46	0.45
3:L1:154:ASP:HA	3:L1:157:ILE:CD1	2.46	0.45
4:M1:6:LYS:HD3	4:M1:57:PHE:CE2	2.52	0.45
1:C2:105:GLU:HA	1:C2:109:ILE:HB	1.96	0.45
2:F2:61:ILE:HA	2:F2:66:THR:CG2	2.46	0.45
1:S2:64:ASP:OD1	1:S2:64:ASP:N	2.50	0.45
2:V2:11:ASN:O	2:V2:15:GLN:NE2	2.50	0.45
1:W2:97:VAL:HG11	2:X2:19:LEU:CD1	2.45	0.45
1:a2:109:ILE:HG13	1:a2:110:ILE:N	2.31	0.45
1:c2:12:ASP:OD2	4:x2:46:LYS:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f2:122:PRO:HG2	6:j3:1203:CYC:HMC3	1.97	0.45
1:m2:129:GLY:O	1:m2:133:MET:HE2	2.16	0.45
1:m2:134:LYS:HB2	1:m2:153:PHE:HB3	1.97	0.45
2:n2:84:ASP:OD2	2:n2:116:TYR:OH	2.27	0.45
2:r2:57:ALA:HA	2:r2:61:ILE:HD11	1.98	0.45
1:s2:4:LEU:HD23	1:s2:26:ILE:HD13	1.96	0.45
1:u2:17:TYR:OH	2:v2:89:LEU:HD12	2.15	0.45
4:w2:63:ALA:HB1	4:w2:67:VAL:HG21	1.98	0.45
1:A3:87:TYR:O	1:A3:91:LEU:HG	2.16	0.45
1:C3:34:GLU:HA	2:D3:28:LYS:HZ3	1.80	0.45
1:C3:37:LEU:HD22	2:D3:24:LEU:CD2	2.47	0.45
1:Q3:90:ARG:HD3	2:R3:18:TYR:CE2	2.51	0.45
2:V3:137:VAL:O	2:V3:141:VAL:HG22	2.15	0.45
1:Y3:114:GLU:HG3	5:k3:311:ALA:O	2.17	0.45
6:Y3:201:CYC:HMD1	6:Y3:201:CYC:NC	2.21	0.45
1:c3:122:PRO:O	1:c3:126:VAL:HG23	2.16	0.45
1:e3:128:GLU:O	1:e3:128:GLU:HG3	2.15	0.45
2:f3:9:ILE:HD11	5:j3:169:TYR:CG	2.51	0.45
2:g3:96:MET:HB2	2:g3:152:TYR:HD2	1.80	0.45
4:i3:11:ILE:HD11	4:i3:44:ILE:HG23	1.97	0.45
5:k3:260:TYR:CE2	5:k3:264:LEU:HD22	2.52	0.45
5:k3:450:ARG:HG3	5:k3:494:PRO:O	2.16	0.45
1:C1:105:GLU:O	1:C1:110:ILE:HG22	2.16	0.45
2:D1:41:ALA:HA	2:D1:44:ILE:HG22	1.99	0.45
1:E1:62:ARG:HE	1:E1:62:ARG:HB3	1.65	0.45
2:G1:51:ILE:HG12	2:G1:136:VAL:HG12	1.99	0.45
2:G1:95:ALA:HB2	2:G1:104:LEU:HG	1.97	0.45
1:H1:37:LEU:O	1:H1:40:ALA:HB3	2.16	0.45
3:L1:134:LYS:HA	3:L1:153:PHE:CD2	2.51	0.45
2:D2:29:ALA:HB2	5:k3:935:LEU:CD2	2.45	0.45
1:K2:16:ARG:O	2:L2:94:TYR:OH	2.32	0.45
1:M2:112:VAL:HA	1:M2:115:MET:CB	2.46	0.45
1:Q2:67:SER:O	1:Q2:73:TYR:HB2	2.17	0.45
1:Q2:97:VAL:HG11	2:R2:19:LEU:CD1	2.47	0.45
2:T2:10:ASN:HB3	4:w2:65:THR:HB	1.98	0.45
1:U2:34:GLU:O	1:U2:37:LEU:HG	2.17	0.45
2:X2:71:MEN:O	2:X2:77:ARG:HD3	2.17	0.45
2:b2:122:PRO:HG2	6:b2:201:CYC:CMC	2.40	0.45
2:n2:47:ASN:HD22	2:n2:140:LEU:CD1	2.28	0.45
1:s2:35:ARG:O	1:s2:39:ILE:HG13	2.16	0.45
4:z2:54:VAL:O	4:z2:55:LYS:HD3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E3:154:ASP:HB2	2:P3:46:SER:HB2	1.99	0.45
2:H3:96:MET:HA	2:H3:152:TYR:CE2	2.49	0.45
1:M3:71:ASN:ND2	1:M3:120:GLN:O	2.49	0.45
1:O3:105:GLU:HG2	1:O3:109:ILE:HD11	1.99	0.45
1:O3:109:ILE:CD1	1:O3:110:ILE:HG23	2.46	0.45
1:a3:16:ARG:O	2:g3:94:TYR:OH	2.33	0.45
1:a3:104:ILE:HD12	1:a3:156:LEU:HD21	1.97	0.45
1:c3:48:GLU:OE2	1:c3:48:GLU:N	2.36	0.45
1:e3:104:ILE:HD11	1:e3:156:LEU:CG	2.46	0.45
5:j3:1000:ILE:O	5:j3:1004:VAL:HG23	2.16	0.45
6:j3:1202:CYC:HMA3	6:j3:1202:CYC:NB	2.31	0.45
5:k3:33:ARG:NH1	5:k3:39:GLU:OE1	2.29	0.45
5:k3:485:ALA:HB2	5:k3:629:TYR:CZ	2.51	0.45
5:k3:540:LEU:HD11	5:k3:544:VAL:HG21	1.99	0.45
5:k3:1018:LEU:HB3	5:k3:1021:ALA:CB	2.38	0.45
1:A1:4:LEU:HD21	2:B1:30:TYR:CE2	2.52	0.45
1:A1:90:ARG:NH2	2:F1:73:TYR:OH	2.40	0.45
2:B1:3:ASP:N	2:B1:6:THR:OG1	2.49	0.45
1:C1:105:GLU:HA	1:C1:109:ILE:HD11	1.98	0.45
1:E1:38:ARG:O	1:E1:41:GLN:NE2	2.34	0.45
6:E1:201:CYC:HMD1	6:E1:201:CYC:NC	2.21	0.45
1:H1:39:ILE:HG21	1:H1:96:ILE:HG21	1.98	0.45
2:I1:109:LEU:HD21	2:I1:156:LEU:HD12	1.98	0.45
1:C2:122:PRO:O	1:C2:126:VAL:HG23	2.16	0.45
2:D2:85:MET:HE3	2:D2:133:MET:SD	2.57	0.45
2:F2:96:MET:HA	2:F2:152:TYR:CE2	2.51	0.45
2:H2:12:TYR:CZ	2:H2:23:ALA:HB2	2.51	0.45
1:K2:6:LYS:HE3	1:K2:100:ASP:OD2	2.17	0.45
2:L2:112:LEU:HD23	2:L2:160:LEU:HD21	1.98	0.45
1:Q2:32:SER:HG	1:Q2:36:ARG:HE	1.62	0.45
2:T2:73:TYR:O	2:T2:74:THR:OG1	2.31	0.45
1:U2:50:ILE:CD1	1:U2:136:VAL:HG12	2.47	0.45
1:W2:68:PRO:HA	1:W2:73:TYR:CD2	2.51	0.45
1:c2:85:LEU:HD23	1:c2:85:LEU:HA	1.82	0.45
2:d2:148:GLU:O	2:d2:151:ILE:HG12	2.16	0.45
2:f2:148:GLU:O	2:f2:151:ILE:HG12	2.16	0.45
1:g2:101:VAL:HG12	1:g2:152:TYR:CD2	2.51	0.45
6:h2:201:CYC:C4B	4:y2:23:LEU:HB2	2.46	0.45
1:i2:5:THR:O	1:i2:9:VAL:HG23	2.16	0.45
2:n2:10:ASN:O	2:n2:14:VAL:HG13	2.17	0.45
1:o2:57:GLN:O	1:o2:61:ILE:HG13	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s2:122:PRO:O	1:s2:126:VAL:HG23	2.16	0.45
6:N3:201:CYC:HMA3	6:N3:201:CYC:HB	1.81	0.45
2:V3:37:ARG:NH2	2:V3:148:GLU:OE1	2.46	0.45
2:V3:76:ARG:HD2	1:W3:110:ILE:CD1	2.42	0.45
2:b3:78:TYR:O	2:b3:82:ILE:HG23	2.16	0.45
2:b3:91:TYR:O	2:b3:104:LEU:HD21	2.16	0.45
2:d3:132:ALA:O	2:d3:136:VAL:HG23	2.15	0.45
1:e3:156:LEU:HD23	1:e3:156:LEU:HA	1.81	0.45
2:g3:85:MET:HG2	2:g3:133:MET:SD	2.57	0.45
4:z3:39:THR:O	4:z3:43:ARG:HG3	2.17	0.45
4:i3:14:LEU:HD12	4:i3:15:LYS:HD2	1.98	0.45
5:j3:66:MET:C	5:j3:66:MET:HE2	2.41	0.45
5:k3:75:ILE:HG22	5:k3:139:ASP:OD2	2.16	0.45
5:k3:190:LEU:HA	5:k3:190:LEU:HD23	1.68	0.45
1:A1:65:VAL:O	1:A1:72:ALA:HB3	2.16	0.45
2:B1:36:VAL:HG12	2:B1:39:ARG:NH1	2.32	0.45
2:D1:57:ALA:HA	2:D1:61:ILE:HG22	1.97	0.45
2:F1:89:LEU:HD12	3:K1:17:TYR:OH	2.17	0.45
1:H1:8:ILE:HD11	2:I1:97:LEU:HD21	1.97	0.45
1:H1:39:ILE:HG22	1:H1:96:ILE:HG21	1.97	0.45
2:J1:3:ASP:HB2	2:J1:98:ALA:O	2.17	0.45
2:F2:58:LYS:HB3	2:F2:58:LYS:HE3	1.59	0.45
1:G2:122:PRO:HG2	1:G2:125:ALA:HB3	1.97	0.45
2:N2:36:VAL:CG1	2:N2:145:ALA:HB2	2.47	0.45
2:T2:113:LYS:NZ	2:T2:123:ILE:HG12	2.31	0.45
2:Z2:133:MET:HE3	2:Z2:153:PHE:HE1	1.82	0.45
1:g2:9:VAL:CG2	2:h2:1:MET:HE1	2.46	0.45
1:g2:161:GLN:HG3	2:v2:49:THR:HG21	1.96	0.45
2:j2:148:GLU:HA	2:j2:151:ILE:HD13	1.98	0.45
1:m2:59:PHE:HZ	1:m2:78:THR:HG23	1.81	0.45
1:m2:158:GLY:CA	1:m2:161:GLN:HG3	2.35	0.45
2:n2:72:MET:HB3	6:k3:1205:CYC:OC	2.15	0.45
1:o2:83:ARG:NH2	1:o2:84:ASP:OD1	2.26	0.45
1:s2:8:ILE:CD1	2:t2:98:ALA:HB2	2.47	0.45
2:t2:89:LEU:HB2	2:t2:133:MET:CE	2.46	0.45
2:t2:109:LEU:CD2	2:t2:159:GLY:HA3	2.46	0.45
1:A3:64:ASP:O	1:A3:67:SER:HB2	2.17	0.45
2:B3:28:LYS:O	2:B3:32:THR:HG22	2.16	0.45
2:D3:75:THR:OG1	1:E3:110:ILE:O	2.20	0.45
1:M3:122:PRO:O	1:M3:126:VAL:HG23	2.17	0.45
1:Q3:54:ALA:HA	1:Q3:132:ALA:HB1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V3:12:TYR:OH	2:V3:20:ASP:OD1	2.28	0.45
2:b3:15:GLN:HG3	2:b3:17:LYS:HB2	1.99	0.45
5:j3:1118:THR:HG23	6:j3:1205:CYC:HMA3	1.98	0.45
5:k3:170:ALA:HB2	5:k3:179:LEU:HD23	1.97	0.45
5:k3:279:GLY:C	5:k3:281:ASP:H	2.25	0.45
2:h3:64:ASP:HA	2:h3:67:ARG:HH12	1.81	0.45
2:F1:71:MEN:HD2	2:F1:71:MEN:HA	1.57	0.45
1:A2:47:ARG:HG2	1:A2:48:GLU:N	2.31	0.45
1:E2:34:GLU:N	1:E2:34:GLU:OE2	2.50	0.45
2:H2:148:GLU:O	2:H2:151:ILE:HG12	2.17	0.45
6:N2:201:CYC:HMD1	6:N2:201:CYC:NC	2.21	0.45
2:R2:5:ILE:HG12	2:R2:27:LEU:HD11	1.98	0.45
2:R2:79:ALA:O	2:R2:82:ILE:HG12	2.16	0.45
1:S2:39:ILE:HG23	1:S2:141:LEU:HD11	1.97	0.45
1:S2:90:ARG:HD3	2:T2:18:TYR:CD1	2.52	0.45
1:U2:23:LEU:HB3	1:U2:27:LYS:NZ	2.32	0.45
1:U2:59:PHE:CZ	1:U2:78:THR:HG23	2.52	0.45
1:W2:3:VAL:HA	1:W2:6:LYS:HD2	1.98	0.45
1:Y2:22:GLU:HA	1:Y2:25:ARG:HG2	1.98	0.45
1:c2:156:LEU:HD23	1:c2:156:LEU:HA	1.75	0.45
1:e2:34:GLU:OE2	1:e2:34:GLU:N	2.47	0.45
1:e2:47:ARG:HA	1:e2:89:LEU:HD21	1.98	0.45
1:e2:88:TYR:O	1:e2:91:LEU:HG	2.16	0.45
2:j2:121:VAL:HG13	2:j2:122:PRO:HD2	1.97	0.45
1:m2:76:LYS:O	1:m2:76:LYS:HD3	2.16	0.45
2:p2:112:LEU:HD21	6:p2:201:CYC:CMB	2.47	0.45
2:p2:122:PRO:HG2	2:p2:125:ALA:HB3	1.97	0.45
1:s2:59:PHE:HZ	1:s2:78:THR:HG23	1.82	0.45
1:u2:71:ASN:HB3	6:u2:201:CYC:OC	2.17	0.45
2:v2:133:MET:HA	2:v2:136:VAL:HG22	1.98	0.45
1:C3:27:LYS:O	1:C3:30:VAL:HG22	2.17	0.45
2:H3:121:VAL:HG12	2:H3:122:PRO:HD2	1.97	0.45
2:J3:144:ASP:OD1	2:J3:144:ASP:N	2.40	0.45
2:N3:37:ARG:NH2	2:N3:148:GLU:OE1	2.48	0.45
2:N3:73:TYR:O	2:N3:77:ARG:HB2	2.17	0.45
1:O3:112:VAL:HA	1:O3:115:MET:HG2	1.97	0.45
1:Y3:122:PRO:O	1:Y3:126:VAL:HG23	2.16	0.45
2:f3:28:LYS:CE	5:j3:54:ILE:HD12	2.47	0.45
5:j3:207:ARG:HB2	5:j3:227:ILE:CG2	2.46	0.45
5:j3:949:ARG:HB2	5:j3:950:PRO:HD2	1.99	0.45
5:j3:1119:LEU:HB3	5:j3:1120:PRO:HD3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:1147:TYR:O	5:j3:1148:THR:HG22	2.16	0.45
5:k3:426:LEU:HA	5:k3:431:GLN:HG3	1.98	0.45
1:A1:39:ILE:HG12	1:A1:145:ASP:HB3	1.99	0.45
1:C1:62:ARG:HB3	1:C1:65:VAL:HG13	1.99	0.45
2:F1:50:THR:O	2:F1:54:GLU:HG2	2.17	0.45
2:F1:73:TYR:O	2:F1:74:THR:OG1	2.32	0.45
3:K1:50:VAL:HG12	3:K1:136:GLU:HG3	1.98	0.45
3:K1:138:LEU:HD23	3:K1:138:LEU:H	1.80	0.45
1:C2:126:VAL:HG12	1:C2:160:MET:HE1	1.97	0.45
2:F2:36:VAL:CG1	2:F2:145:ALA:HB2	2.46	0.45
1:I2:101:VAL:HG11	1:W2:20:PRO:HG2	1.99	0.45
2:J2:96:MET:HA	2:J2:152:TYR:CE2	2.51	0.45
1:M2:105:GLU:HA	1:M2:109:ILE:HD11	1.98	0.45
2:P2:24:LEU:HB3	2:P2:28:LYS:NZ	2.32	0.45
2:R2:28:LYS:O	2:R2:32:THR:HG22	2.17	0.45
1:S2:22:GLU:HA	1:S2:25:ARG:HG2	1.98	0.45
1:S2:112:VAL:CG1	1:S2:160:MET:HE1	2.46	0.45
1:W2:50:ILE:HD13	1:W2:136:VAL:HG12	1.97	0.45
1:a2:133:MET:HG2	1:a2:133:MET:H	1.64	0.45
2:n2:73:TYR:O	2:n2:74:THR:OG1	2.29	0.45
2:p2:5:ILE:O	2:p2:9:ILE:HG12	2.17	0.45
1:u2:23:LEU:O	1:u2:27:LYS:HG2	2.15	0.45
2:v2:60:LEU:HA	5:j3:1153:VAL:HG21	1.99	0.45
2:v2:71:MEN:O	2:v2:77:ARG:HG2	2.16	0.45
2:F3:52:ILE:HG12	2:F3:133:MET:HE2	1.99	0.45
2:J3:89:LEU:HD13	2:J3:133:MET:CE	2.46	0.45
1:K3:36:ARG:NH2	1:K3:99:GLY:HA2	2.31	0.45
1:U3:67:SER:O	1:U3:73:TYR:HB2	2.16	0.45
1:U3:85:LEU:HB3	1:U3:133:MET:CE	2.47	0.45
1:Y3:94:TYR:OH	2:Z3:17:LYS:O	2.33	0.45
2:f3:57:ALA:HA	2:f3:61:ILE:CD1	2.40	0.45
5:j3:148:TYR:O	5:j3:152:ARG:HG3	2.15	0.45
5:j3:382:ILE:CD1	5:j3:401:LEU:HD22	2.42	0.45
5:j3:743:VAL:HG13	6:j3:1202:CYC:CGD	2.46	0.45
5:j3:834:LYS:O	5:j3:834:LYS:HG2	2.15	0.45
5:k3:197:SER:O	5:k3:200:ILE:HG12	2.17	0.45
1:A1:32:SER:O	1:A1:35:ARG:HG3	2.17	0.45
2:B1:30:TYR:OH	2:B1:97:LEU:O	2.27	0.45
2:F1:85:MET:HE3	6:F1:201:CYC:HBC1	1.99	0.45
2:G1:71:MEN:OD1	2:G1:121:VAL:HG22	2.17	0.45
1:H1:105:GLU:CG	1:H1:109:ILE:HD11	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J1:88:PHE:CB	2:J1:133:MET:HE1	2.36	0.45
2:J1:147:LYS:CD	2:J1:148:GLU:HG2	2.47	0.45
6:K1:201:CYC:HMD1	6:K1:201:CYC:NC	2.20	0.45
3:L1:14:GLN:OE1	3:L1:16:ARG:NH2	2.50	0.45
1:A2:106:GLU:HA	1:A2:110:ILE:CD1	2.46	0.45
1:G2:39:ILE:CG1	1:G2:145:ASP:HB2	2.47	0.45
1:G2:105:GLU:HA	1:G2:109:ILE:HD11	1.99	0.45
1:I2:157:VAL:O	1:I2:161:GLN:HG2	2.16	0.45
1:M2:35:ARG:NH2	1:M2:144:ASP:HB3	2.32	0.45
1:O2:50:ILE:HD11	1:O2:140:LEU:CD1	2.45	0.45
1:Q2:134:LYS:HB2	1:Q2:153:PHE:CG	2.51	0.45
2:T2:55:ALA:CB	2:T2:133:MET:HG2	2.46	0.45
2:X2:57:ALA:HA	2:X2:61:ILE:CD1	2.47	0.45
1:Y2:105:GLU:O	1:Y2:110:ILE:HG13	2.17	0.45
1:a2:91:LEU:HD21	1:a2:107:ILE:HG21	1.98	0.45
1:c2:36:ARG:HH12	1:c2:152:TYR:HH	1.60	0.45
1:c2:68:PRO:HA	1:c2:73:TYR:CD1	2.51	0.45
2:h2:61:ILE:HG13	2:h2:62:TYR:CD2	2.52	0.45
2:h2:148:GLU:O	2:h2:151:ILE:HG12	2.17	0.45
1:k2:106:GLU:HA	1:k2:110:ILE:CD1	2.47	0.45
1:o2:22:GLU:HA	1:o2:25:ARG:HG2	1.98	0.45
1:u2:113:LYS:HE2	1:u2:113:LYS:HB2	1.52	0.45
2:v2:67:ARG:HD2	2:v2:68:PRO:O	2.16	0.45
2:L3:61:ILE:HG13	2:L3:62:TYR:CD2	2.52	0.45
1:U3:6:LYS:HG3	1:U3:100:ASP:OD2	2.15	0.45
2:V3:82:ILE:HD12	2:V3:83:ARG:N	2.32	0.45
5:j3:151:GLU:CD	5:j3:152:ARG:HG2	2.41	0.45
5:j3:450:ARG:NH1	5:j3:454:GLN:HB3	2.32	0.45
5:k3:331:ARG:HH21	5:k3:407:ASP:HA	1.82	0.45
5:k3:1060:GLU:O	5:k3:1063:THR:HG22	2.16	0.45
2:h3:47:ASN:OD1	2:h3:47:ASN:N	2.50	0.45
2:h3:104:LEU:HA	2:h3:108:VAL:CG1	2.47	0.45
2:B1:122:PRO:O	2:B1:126:THR:HG23	2.17	0.45
1:C1:123:ILE:HB	1:C1:124:PRO:HD3	1.98	0.45
2:F1:101:PRO:HB2	2:F1:155:TYR:CE2	2.52	0.45
2:J1:28:LYS:O	2:J1:32:THR:HG22	2.17	0.45
2:B2:78:TYR:CZ	1:C2:115:MET:HE1	2.52	0.45
2:H2:46:SER:HB3	1:S2:154:ASP:HB2	1.99	0.45
1:I2:4:LEU:HD21	1:I2:26:ILE:HG23	1.99	0.45
2:L2:96:MET:HA	2:L2:152:TYR:CE2	2.51	0.45
6:N2:201:CYC:HMA1	6:N2:201:CYC:HB	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T2:60:LEU:CD1	2:T2:72:MET:HE1	2.41	0.45
1:W2:121:THR:HG23	1:W2:122:PRO:HD2	1.99	0.45
2:X2:122:PRO:HG2	6:X2:201:CYC:CMC	2.41	0.45
1:c2:110:ILE:HD12	1:c2:110:ILE:O	2.17	0.45
2:f2:16:GLY:HA3	2:j2:68:PRO:HG2	1.98	0.45
1:i2:93:THR:HA	1:i2:96:ILE:HD12	1.98	0.45
6:p2:201:CYC:HMA3	6:p2:201:CYC:HB	1.82	0.45
1:u2:92:VAL:HG11	1:u2:153:PHE:CZ	2.52	0.45
1:u2:136:VAL:O	1:u2:140:LEU:HG	2.16	0.45
2:v2:59:ALA:O	5:j3:1153:VAL:HG11	2.17	0.45
2:v2:73:TYR:O	2:v2:74:THR:OG1	2.29	0.45
4:y2:18:ARG:NE	4:y2:22:GLU:HG3	2.32	0.45
2:F3:83:ARG:NH2	6:F3:201:CYC:O2A	2.48	0.45
1:I3:23:LEU:C	1:I3:26:ILE:HG22	2.42	0.45
2:N3:50:THR:HG22	2:N3:54:GLU:OE2	2.17	0.45
1:a3:61:ILE:HG21	1:a3:128:GLU:OE2	2.17	0.45
2:b3:61:ILE:HA	2:b3:66:THR:HG21	1.99	0.45
2:b3:114:GLU:CG	5:k3:491:THR:HG23	2.46	0.45
2:f3:61:ILE:HA	2:f3:66:THR:HG21	1.98	0.45
2:g3:118:SER:HB2	5:k3:10:THR:O	2.17	0.45
5:j3:249:SER:OG	5:j3:253:ARG:HG3	2.16	0.45
5:j3:776:PHE:HA	5:j3:819:PHE:HE2	1.82	0.45
5:k3:370:GLU:OE2	5:k3:435:ASN:ND2	2.42	0.45
1:A1:3:VAL:HG13	1:A1:25:ARG:NE	2.32	0.45
2:B1:36:VAL:HG12	2:B1:39:ARG:HH12	1.80	0.45
2:B1:160:LEU:HD23	2:B1:160:LEU:HA	1.83	0.45
2:D1:44:ILE:HD11	2:D1:89:LEU:CD1	2.45	0.45
1:E1:41:GLN:O	1:E1:45:GLU:HG3	2.17	0.45
2:G1:65:LEU:HD22	2:G1:72:MET:H	1.81	0.45
1:E2:101:VAL:HB	1:E2:155:TYR:CE2	2.52	0.45
2:H2:50:THR:O	2:H2:54:GLU:HG2	2.17	0.45
1:M2:37:LEU:HD12	2:N2:28:LYS:CD	2.43	0.45
1:O2:65:VAL:HG23	1:O2:66:VAL:HG23	1.99	0.45
1:Q2:101:VAL:HB	1:Q2:155:TYR:CE2	2.52	0.45
1:Q2:111:GLY:HA2	1:Q2:114:GLU:OE1	2.17	0.45
6:T2:201:CYC:HMA1	6:T2:201:CYC:HB	1.82	0.45
2:V2:148:GLU:O	2:V2:151:ILE:HG12	2.17	0.45
1:W2:87:TYR:O	1:W2:91:LEU:HD13	2.17	0.45
2:X2:28:LYS:O	2:X2:32:THR:HG22	2.17	0.45
1:Y2:37:LEU:HD22	2:Z2:24:LEU:HD22	1.99	0.45
1:Y2:54:ALA:HB2	1:Y2:133:MET:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h2:107:ARG:HH21	4:y2:21:ARG:HD2	1.82	0.45
2:j2:39:ARG:HA	2:j2:39:ARG:CZ	2.47	0.45
2:l2:57:ALA:HA	2:l2:61:ILE:HG12	1.98	0.45
1:o2:22:GLU:O	1:o2:26:ILE:HG13	2.16	0.45
1:s2:127:ALA:HB2	1:s2:160:MET:SD	2.56	0.45
2:v2:56:ALA:C	2:v2:61:ILE:HG12	2.42	0.45
4:y2:21:ARG:HG2	5:j3:983:ARG:HD2	1.99	0.45
1:A3:105:GLU:HA	1:A3:109:ILE:HB	1.99	0.45
2:B3:12:TYR:CZ	2:B3:23:ALA:HB2	2.52	0.45
2:D3:132:ALA:O	2:D3:136:VAL:HG23	2.17	0.45
2:D3:137:VAL:O	2:D3:141:VAL:HG22	2.17	0.45
1:G3:109:ILE:O	1:G3:112:VAL:HG12	2.16	0.45
2:H3:147:LYS:O	2:H3:151:ILE:HG22	2.17	0.45
1:I3:104:ILE:HD11	1:I3:155:TYR:CD2	2.52	0.45
2:N3:57:ALA:HA	2:N3:61:ILE:CD1	2.46	0.45
1:U3:49:ARG:HH22	1:U3:140:LEU:HD21	1.81	0.45
1:U3:142:SER:OG	1:U3:144:ASP:OD1	2.35	0.45
6:d3:201:CYC:OB	5:j3:352:ILE:HD12	2.17	0.45
4:i3:22:GLU:N	4:i3:22:GLU:OE2	2.49	0.45
5:j3:631:HIS:HA	5:j3:664:MET:CE	2.44	0.45
5:j3:636:GLY:HA3	5:j3:683:ARG:HG3	1.98	0.45
5:j3:852:GLY:O	5:j3:856:ARG:HD3	2.17	0.45
5:j3:1047:LYS:HA	5:j3:1051:GLU:HG2	1.99	0.45
5:k3:802:VAL:O	5:k3:806:VAL:HG23	2.17	0.45
5:k3:974:LEU:CD1	5:k3:978:LEU:HD13	2.47	0.45
5:k3:1000:ILE:O	5:k3:1004:VAL:HG23	2.17	0.45
5:k3:1005:LEU:HD23	5:k3:1049:PHE:HE2	1.81	0.45
2:h3:85:MET:CE	6:h3:201:CYC:HBC1	2.43	0.45
1:A1:91:LEU:HD23	1:A1:91:LEU:HA	1.74	0.45
1:A1:109:ILE:HD11	1:A1:156:LEU:HD22	1.98	0.45
2:B1:133:MET:HB3	2:B1:133:MET:HE2	1.75	0.45
1:E1:77:MET:HE3	6:E1:201:CYC:HAD1	1.98	0.45
2:G1:37:ARG:HD3	2:G1:96:MET:O	2.16	0.45
3:L1:49:ARG:NH2	3:L1:136:GLU:OE1	2.50	0.45
3:L1:65:LEU:HD11	6:L1:201:CYC:HMC1	1.99	0.45
3:L1:108:GLY:O	3:L1:112:ILE:HD11	2.16	0.45
1:G2:105:GLU:HA	1:G2:109:ILE:HG13	1.97	0.45
2:H2:57:ALA:HA	2:H2:61:ILE:HG12	1.98	0.45
1:I2:52:LYS:HE3	1:I2:52:LYS:HB3	1.85	0.45
1:K2:134:LYS:NZ	1:K2:154:ASP:OD1	2.24	0.45
2:L2:85:MET:CE	2:L2:133:MET:HE3	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O2:88:TYR:HD1	1:O2:91:LEU:HD12	1.81	0.45
2:R2:47:ASN:O	2:R2:51:ILE:HD12	2.17	0.45
2:T2:132:ALA:HA	2:T2:135:GLU:HG3	1.98	0.45
2:X2:109:LEU:HD21	2:X2:159:GLY:HA3	1.99	0.45
2:Z2:2:GLN:NE2	4:x2:66:GLY:HA3	2.32	0.45
2:d2:121:VAL:HG13	2:d2:122:PRO:HD2	1.98	0.45
2:f2:51:ILE:HG22	2:f2:133:MET:HG2	1.99	0.45
1:g2:160:MET:C	1:g2:160:MET:HE2	2.42	0.45
1:i2:5:THR:CG2	2:j2:1:MET:HE1	2.47	0.45
2:l2:78:TYR:CG	1:m2:115:MET:HE1	2.52	0.45
1:q2:26:ILE:O	1:q2:30:VAL:HG13	2.17	0.45
1:u2:26:ILE:CD1	2:v2:97:LEU:HD11	2.47	0.45
2:B3:137:VAL:O	2:B3:141:VAL:HG13	2.17	0.45
2:F3:74:THR:OG1	2:F3:77:ARG:HG3	2.16	0.45
6:I3:201:CYC:HMA3	6:I3:201:CYC:NB	2.31	0.45
2:L3:52:ILE:CD1	2:L3:86:ASP:HB3	2.47	0.45
1:Q3:50:ILE:HA	1:Q3:136:VAL:CG1	2.45	0.45
1:Q3:156:LEU:HD23	1:Q3:156:LEU:HA	1.86	0.45
1:S3:71:ASN:ND2	1:S3:120:GLN:O	2.50	0.45
2:V3:67:ARG:O	2:V3:73:TYR:HB2	2.16	0.45
2:X3:72:MET:HE3	2:X3:81:CYS:HB3	1.99	0.45
1:Y3:53:GLN:HB2	1:Y3:136:VAL:HG21	1.99	0.45
2:b3:28:LYS:HA	2:b3:28:LYS:HE3	1.98	0.45
6:d3:201:CYC:HMA1	6:d3:201:CYC:NB	2.30	0.45
2:f3:6:THR:HA	2:f3:9:ILE:HG22	1.99	0.45
5:j3:84:TYR:HE2	5:j3:150:PRO:HA	1.82	0.45
5:j3:830:GLU:HG3	5:j3:900:LEU:HD21	1.98	0.45
1:A1:92:VAL:HG23	1:A1:156:LEU:CD1	2.48	0.44
2:D1:137:VAL:O	2:D1:141:VAL:HG22	2.17	0.44
1:E1:42:THR:HA	1:E1:45:GLU:OE2	2.17	0.44
1:H1:24:ASP:O	5:j3:45:GLN:NE2	2.47	0.44
1:H1:122:PRO:HG2	6:H1:201:CYC:HMC2	1.99	0.44
3:K1:48:ASP:OD1	3:K1:48:ASP:N	2.40	0.44
3:K1:59:PHE:CE1	3:K1:65:LEU:HB3	2.51	0.44
3:L1:130:MET:CE	3:L1:160:MET:HE1	2.46	0.44
4:z1:36:ASN:ND2	5:k3:407:ASP:OD2	2.49	0.44
2:F2:112:LEU:CD2	2:F2:160:LEU:HD21	2.47	0.44
1:G2:161:GLN:OE1	1:G2:161:GLN:HA	2.17	0.44
2:H2:160:LEU:HD23	2:H2:160:LEU:HA	1.86	0.44
1:I2:156:LEU:HD23	1:I2:156:LEU:HA	1.83	0.44
2:J2:47:ASN:O	2:J2:51:ILE:HD12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L2:89:LEU:HB2	2:L2:133:MET:CE	2.47	0.44
1:M2:83:ARG:NH2	1:M2:84:ASP:OD1	2.26	0.44
1:O2:161:GLN:OE1	1:O2:161:GLN:HA	2.16	0.44
2:R2:54:GLU:HG2	2:R2:136:VAL:CG1	2.45	0.44
1:U2:138:THR:OG1	1:U2:146:ALA:HB1	2.16	0.44
6:b2:201:CYC:OB	4:x2:23:LEU:HB2	2.17	0.44
1:c2:103:PRO:HA	1:c2:106:GLU:OE1	2.18	0.44
1:c2:105:GLU:HG2	1:c2:155:TYR:OH	2.17	0.44
2:d2:81:CYS:HA	6:x2:101:CYC:HAC1	1.62	0.44
2:f2:132:ALA:O	2:f2:136:VAL:HG23	2.18	0.44
2:h2:37:ARG:NH1	2:h2:96:MET:O	2.50	0.44
2:j2:1:MET:SD	2:j2:2:GLN:N	2.90	0.44
2:l2:73:TYR:HB3	2:l2:77:ARG:NH2	2.32	0.44
1:m2:47:ARG:HG2	1:m2:48:GLU:N	2.32	0.44
2:p2:133:MET:O	2:p2:137:VAL:HG13	2.16	0.44
4:y2:32:VAL:HG11	4:y2:37:TRP:CE3	2.52	0.44
1:A3:6:LYS:O	1:A3:9:VAL:HG12	2.16	0.44
1:S3:18:LEU:H	1:S3:18:LEU:HD12	1.82	0.44
1:U3:85:LEU:HB3	1:U3:133:MET:HE1	1.99	0.44
1:Y3:24:ASP:HA	1:Y3:27:LYS:NZ	2.32	0.44
2:b3:112:LEU:HD23	2:b3:160:LEU:HD21	1.99	0.44
1:c3:109:ILE:O	1:c3:112:VAL:HG12	2.17	0.44
1:e3:36:ARG:NH1	1:e3:99:GLY:HA2	2.31	0.44
2:f3:156:LEU:HD12	2:f3:156:LEU:HA	1.79	0.44
5:j3:802:VAL:O	5:j3:806:VAL:HG23	2.18	0.44
5:j3:919:ILE:HD12	5:j3:920:ARG:N	2.32	0.44
1:A1:50:ILE:HG23	1:A1:136:VAL:CB	2.41	0.44
1:A1:75:GLU:H	1:A1:75:GLU:HG2	1.56	0.44
2:B1:91:TYR:OH	2:B1:107:ARG:NH1	2.50	0.44
2:D1:47:ASN:O	2:D1:51:ILE:HG12	2.18	0.44
2:I1:121:VAL:HG13	2:I1:122:PRO:HD2	1.97	0.44
1:C2:49:ARG:CZ	1:C2:140:LEU:HD21	2.47	0.44
1:E2:36:ARG:HH22	1:E2:99:GLY:HA3	1.83	0.44
2:H2:67:ARG:O	2:H2:73:TYR:HB2	2.17	0.44
1:Q2:130:VAL:O	1:Q2:133:MET:HB2	2.16	0.44
1:Q2:132:ALA:O	1:Q2:136:VAL:HG23	2.17	0.44
1:S2:26:ILE:O	1:S2:30:VAL:HG13	2.16	0.44
2:d2:39:ARG:O	2:d2:43:VAL:HG23	2.18	0.44
1:i2:26:ILE:O	1:i2:30:VAL:HG13	2.17	0.44
2:j2:37:ARG:HG2	2:j2:148:GLU:OE2	2.17	0.44
1:k2:26:ILE:O	1:k2:30:VAL:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k2:114:GLU:OE2	5:k3:1013:PRO:HB2	2.18	0.44
2:l2:39:ARG:O	2:l2:43:VAL:HG23	2.17	0.44
2:l2:76:ARG:HD3	1:m2:110:ILE:CD1	2.46	0.44
1:m2:36:ARG:HG2	1:m2:148:GLU:OE2	2.17	0.44
1:o2:26:ILE:O	1:o2:30:VAL:HG13	2.17	0.44
2:p2:87:TYR:HE2	5:k3:1009:ALA:HA	1.83	0.44
1:q2:29:PHE:CE1	1:q2:99:GLY:HA3	2.52	0.44
2:r2:105:ASP:OD2	2:r2:155:TYR:OH	2.15	0.44
1:s2:76:LYS:HG3	1:s2:77:MET:CE	2.47	0.44
1:s2:115:MET:HE2	1:s2:115:MET:HA	2.00	0.44
1:C3:104:ILE:HD11	1:C3:155:TYR:CD2	2.52	0.44
1:E3:49:ARG:NH2	1:E3:140:LEU:HD11	2.32	0.44
2:F3:57:ALA:HA	2:F3:61:ILE:CD1	2.47	0.44
1:K3:85:LEU:HD22	1:K3:133:MET:SD	2.58	0.44
2:L3:85:MET:HG2	6:L3:201:CYC:HBC1	2.00	0.44
2:T3:57:ALA:HA	2:T3:61:ILE:CD1	2.48	0.44
2:T3:78:TYR:O	2:T3:82:ILE:HG23	2.17	0.44
2:V3:53:LYS:HG2	2:V3:54:GLU:OE2	2.16	0.44
2:V3:61:ILE:HA	2:V3:66:THR:HG21	1.98	0.44
1:W3:33:GLY:O	1:W3:37:LEU:HG	2.18	0.44
1:W3:109:ILE:CD1	1:W3:110:ILE:HG23	2.45	0.44
2:X3:122:PRO:HB3	2:d3:64:ASP:OD2	2.17	0.44
1:Y3:87:TYR:O	1:Y3:91:LEU:HG	2.17	0.44
1:a3:4:LEU:HB2	2:g3:3:ASP:OD2	2.16	0.44
1:a3:11:ALA:HB2	1:a3:22:GLU:OE2	2.17	0.44
2:b3:109:LEU:HD23	2:b3:109:LEU:HA	1.65	0.44
2:d3:135:GLU:OE1	2:d3:135:GLU:HA	2.17	0.44
2:f3:53:LYS:HD3	2:f3:53:LYS:HA	1.57	0.44
5:j3:325:ASN:HB2	6:j3:1201:CYC:HMA3	1.61	0.44
5:j3:328:ILE:HD12	5:j3:328:ILE:O	2.17	0.44
5:j3:747:LYS:O	5:j3:750:ARG:NH1	2.50	0.44
5:k3:33:ARG:O	5:k3:34:TYR:HB2	2.17	0.44
5:k3:738:TYR:O	5:k3:741:GLN:HG2	2.17	0.44
5:k3:949:ARG:HB3	5:k3:950:PRO:HD2	1.99	0.44
2:h3:84:ASP:OD1	6:h3:201:CYC:HHB	2.18	0.44
6:A1:201:CYC:HMA1	6:A1:201:CYC:NB	2.31	0.44
1:C1:18:LEU:H	1:C1:18:LEU:HD12	1.82	0.44
1:H1:134:LYS:HE3	1:H1:153:PHE:CB	2.47	0.44
2:J1:6:THR:HA	2:J1:9:ILE:HG13	2.00	0.44
2:J1:17:LYS:HE3	2:J1:17:LYS:HB2	1.76	0.44
3:L1:151:PRO:C	1:e3:20:PRO:HB3	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:z1:25:ASN:ND2	5:k3:416:GLY:O	2.47	0.44
4:z1:41:GLN:O	4:z1:45:GLN:HG3	2.17	0.44
1:C2:85:LEU:HD22	1:C2:133:MET:SD	2.57	0.44
2:H2:40:ALA:HB2	2:H2:145:ALA:CB	2.47	0.44
2:L2:58:LYS:NZ	2:L2:58:LYS:HB2	2.32	0.44
1:M2:111:GLY:HA2	1:M2:114:GLU:OE1	2.16	0.44
1:M2:115:MET:HE1	2:R2:78:TYR:CD1	2.52	0.44
1:Q2:122:PRO:O	1:Q2:126:VAL:HG23	2.17	0.44
2:R2:64:ASP:HA	2:R2:67:ARG:HG2	2.00	0.44
2:b2:73:TYR:O	2:b2:74:THR:OG1	2.28	0.44
2:f2:107:ARG:HB3	2:f2:107:ARG:NH1	2.31	0.44
2:h2:73:TYR:O	2:h2:74:THR:OG1	2.29	0.44
1:i2:50:ILE:HG22	1:i2:133:MET:HG3	2.00	0.44
1:k2:4:LEU:CD2	1:k2:26:ILE:HD13	2.44	0.44
1:k2:64:ASP:HA	1:k2:67:SER:OG	2.17	0.44
2:n2:61:ILE:HG13	2:n2:62:TYR:CE2	2.52	0.44
2:n2:112:LEU:HD23	2:n2:160:LEU:HD21	1.99	0.44
2:t2:148:GLU:HA	2:t2:151:ILE:HD13	1.97	0.44
1:u2:62:ARG:HG3	1:u2:62:ARG:O	2.18	0.44
2:B3:40:ALA:CB	2:B3:96:MET:HE1	2.46	0.44
1:U3:134:LYS:HE3	1:U3:153:PHE:CB	2.47	0.44
2:f3:72:MET:HE2	2:f3:72:MET:HB2	1.76	0.44
2:f3:148:GLU:HA	2:f3:151:ILE:CD1	2.46	0.44
2:g3:133:MET:O	2:g3:137:VAL:HG22	2.17	0.44
5:j3:283:ARG:HD2	5:j3:284:PRO:CD	2.39	0.44
5:j3:1110:ILE:HD12	5:j3:1110:ILE:O	2.17	0.44
5:k3:36:ASN:O	5:k3:40:VAL:HG23	2.18	0.44
2:h3:141:VAL:HG12	2:h3:145:ALA:HB3	1.99	0.44
1:A1:155:TYR:HB2	1:Y3:20:PRO:HG3	1.98	0.44
1:C1:64:ASP:O	1:C1:67:SER:HB2	2.18	0.44
2:F1:100:ASP:OD1	2:F1:101:PRO:HD2	2.18	0.44
2:F1:154:ASP:HA	2:F1:157:SER:OG	2.17	0.44
2:G1:30:TYR:O	2:G1:33:THR:HG22	2.18	0.44
1:H1:58:LEU:HD22	1:H1:129:GLY:CA	2.47	0.44
2:D2:26:LYS:HD3	5:k3:926:ALA:HB2	1.99	0.44
1:M2:8:ILE:HB	2:N2:1:MET:HE1	1.99	0.44
2:R2:64:ASP:O	2:R2:67:ARG:HG2	2.17	0.44
1:S2:115:MET:CE	2:X2:78:TYR:HB3	2.44	0.44
1:W2:89:LEU:HB3	2:X2:18:TYR:OH	2.18	0.44
2:X2:88:PHE:CE2	2:X2:130:ILE:HD11	2.52	0.44
1:Y2:134:LYS:O	1:Y2:138:THR:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z2:10:ASN:CG	4:x2:65:THR:HB	2.43	0.44
1:a2:64:ASP:HA	1:a2:67:SER:OG	2.18	0.44
1:c2:23:LEU:O	1:c2:27:LYS:HG2	2.17	0.44
2:f2:111:GLY:HA2	2:f2:114:GLU:OE2	2.17	0.44
2:h2:108:VAL:O	2:h2:112:LEU:HB2	2.17	0.44
1:q2:35:ARG:NH1	1:q2:144:ASP:OD2	2.41	0.44
1:I3:100:ASP:OD1	1:I3:101:VAL:N	2.50	0.44
2:J3:133:MET:HE3	2:J3:133:MET:HB3	1.76	0.44
2:R3:24:LEU:HB3	2:R3:28:LYS:NZ	2.32	0.44
2:X3:148:GLU:O	2:X3:151:ILE:HG12	2.17	0.44
2:b3:6:THR:HA	2:b3:9:ILE:CG2	2.47	0.44
2:b3:112:LEU:CD2	2:b3:160:LEU:HD21	2.48	0.44
2:g3:83:ARG:NH1	2:g3:87:TYR:OH	2.51	0.44
5:j3:743:VAL:HG22	6:j3:1202:CYC:CGD	2.48	0.44
2:D1:83:ARG:HD2	4:z1:22:GLU:OE2	2.17	0.44
2:D1:148:GLU:O	2:D1:151:ILE:HG12	2.17	0.44
2:F1:82:ILE:HG13	2:F1:83:ARG:N	2.33	0.44
2:J1:147:LYS:HD2	2:J1:148:GLU:N	2.33	0.44
3:L1:102:GLU:HB3	3:L1:103:PRO:HD3	2.00	0.44
2:J2:75:THR:HG22	1:K2:115:MET:CE	2.43	0.44
1:O2:50:ILE:HD13	1:O2:136:VAL:CG1	2.36	0.44
2:T2:78:TYR:CG	1:U2:115:MET:HE1	2.52	0.44
1:U2:50:ILE:HD13	1:U2:136:VAL:HG12	1.99	0.44
1:W2:47:ARG:HD2	1:W2:48:GLU:N	2.31	0.44
2:X2:47:ASN:O	2:X2:51:ILE:HD12	2.17	0.44
1:c2:22:GLU:OE1	1:c2:26:ILE:HD11	2.17	0.44
1:g2:51:VAL:CG1	1:g2:52:LYS:HE2	2.48	0.44
1:m2:40:ALA:CB	1:m2:97:VAL:HG13	2.47	0.44
1:s2:127:ALA:HB2	1:s2:160:MET:CG	2.48	0.44
6:u2:201:CYC:HMA3	6:u2:201:CYC:NB	2.31	0.44
4:x2:20:GLY:O	4:x2:22:GLU:HG2	2.17	0.44
2:B3:40:ALA:HB3	2:B3:96:MET:CE	2.46	0.44
1:C3:23:LEU:C	1:C3:26:ILE:HG22	2.43	0.44
1:K3:64:ASP:HA	1:K3:67:SER:OG	2.18	0.44
1:M3:109:ILE:HD12	1:M3:159:ALA:HB3	1.99	0.44
2:N3:96:MET:HA	2:N3:152:TYR:CE2	2.53	0.44
1:O3:106:GLU:HA	1:O3:110:ILE:CD1	2.43	0.44
1:Q3:12:ASP:OD2	2:R3:107:ARG:NH1	2.45	0.44
1:S3:104:ILE:HG22	1:S3:109:ILE:HD12	2.00	0.44
2:g3:89:LEU:O	2:g3:91:TYR:N	2.50	0.44
5:j3:138:PRO:HB2	5:j3:139:ASP:OD1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:772:TYR:HE1	5:j3:809:LEU:HD21	1.81	0.44
5:j3:890:PRO:HD2	5:j3:893:ASN:HD22	1.82	0.44
5:k3:6:THR:HG23	5:k3:500:PRO:HD3	1.99	0.44
5:k3:49:ASP:HB3	5:k3:53:ARG:HD2	1.99	0.44
2:h3:89:LEU:O	2:h3:91:TYR:N	2.50	0.44
2:D1:28:LYS:O	2:D1:32:THR:HG22	2.17	0.44
2:J1:67:ARG:O	2:J1:73:TYR:HB2	2.17	0.44
2:J1:96:MET:HA	2:J1:152:TYR:CE2	2.52	0.44
3:L1:137:ALA:HB3	3:L1:153:PHE:CE2	2.53	0.44
4:M1:6:LYS:HD2	4:M1:31:LEU:HD21	2.00	0.44
2:B2:12:TYR:CZ	2:B2:23:ALA:HB2	2.52	0.44
1:E2:29:PHE:HZ	2:F2:5:ILE:HD12	1.83	0.44
2:F2:78:TYR:O	2:F2:82:ILE:HG23	2.17	0.44
2:J2:76:ARG:HB2	1:K2:110:ILE:HG13	1.99	0.44
1:K2:111:GLY:HA2	1:K2:114:GLU:OE1	2.17	0.44
1:M2:97:VAL:HG21	2:N2:19:LEU:HD11	1.98	0.44
2:N2:3:ASP:N	2:N2:6:THR:OG1	2.50	0.44
2:R2:131:GLN:O	2:R2:135:GLU:HG2	2.17	0.44
2:T2:10:ASN:CB	4:w2:65:THR:HB	2.48	0.44
2:T2:114:GLU:HA	2:T2:117:ASN:OD1	2.17	0.44
6:V2:201:CYC:HMA3	6:V2:201:CYC:HB	1.82	0.44
2:X2:112:LEU:HD11	6:X2:201:CYC:HMB3	1.99	0.44
1:Y2:34:GLU:OE2	1:Y2:34:GLU:N	2.44	0.44
1:Y2:35:ARG:NH1	1:Y2:144:ASP:OD2	2.50	0.44
1:a2:20:PRO:HD2	1:o2:101:VAL:CG1	2.48	0.44
6:e2:201:CYC:O2A	2:j2:66:THR:HG21	2.18	0.44
1:i2:35:ARG:O	1:i2:39:ILE:HG12	2.17	0.44
1:o2:27:LYS:N	1:o2:27:LYS:HD2	2.33	0.44
1:o2:131:ARG:CG	1:o2:157:VAL:HG21	2.48	0.44
2:r2:107:ARG:NH1	5:j3:1055:SER:OG	2.51	0.44
1:A3:9:VAL:HG21	5:k3:560:VAL:HG21	1.99	0.44
1:C3:50:ILE:HG12	1:C3:136:VAL:HG12	1.97	0.44
1:C3:109:ILE:HD12	1:C3:159:ALA:CB	2.48	0.44
1:E3:34:GLU:OE2	1:E3:34:GLU:N	2.50	0.44
1:E3:64:ASP:HA	1:E3:67:SER:OG	2.18	0.44
2:F3:67:ARG:O	2:F3:73:TYR:HB2	2.17	0.44
1:I3:50:ILE:HG12	1:I3:136:VAL:HG12	2.00	0.44
2:J3:76:ARG:NH2	4:i3:63:ALA:O	2.50	0.44
1:O3:42:THR:O	1:O3:45:GLU:HG3	2.17	0.44
1:O3:160:MET:HE2	1:O3:160:MET:HB2	1.70	0.44
2:T3:81:CYS:HA	6:T3:201:CYC:HAC1	1.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V3:201:CYC:HAA1	5:j3:472:TYR:CE1	2.53	0.44
1:W3:27:LYS:O	1:W3:30:VAL:HG22	2.18	0.44
1:W3:49:ARG:HG2	1:W3:52:LYS:HZ2	1.82	0.44
1:Y3:26:ILE:O	1:Y3:30:VAL:HG13	2.17	0.44
1:Y3:35:ARG:NH1	1:Y3:144:ASP:OD2	2.50	0.44
1:Y3:85:LEU:O	1:Y3:133:MET:HE1	2.17	0.44
1:Y3:128:GLU:HA	1:Y3:131:ARG:HH12	1.83	0.44
1:a3:145:ASP:OD1	1:a3:145:ASP:N	2.51	0.44
2:f3:16:GLY:O	2:f3:17:LYS:HD2	2.18	0.44
2:g3:5:ILE:HD12	2:g3:27:LEU:HD22	2.00	0.44
5:j3:479:LEU:HD12	5:j3:479:LEU:HA	1.87	0.44
5:j3:738:TYR:O	5:j3:741:GLN:HG2	2.17	0.44
5:k3:314:GLN:HB3	5:k3:342:LEU:HD11	2.00	0.44
5:k3:622:TYR:HB3	5:k3:625:LYS:HD2	1.99	0.44
5:k3:780:ILE:HG22	5:k3:783:TYR:CD2	2.52	0.44
2:B1:112:LEU:HD11	2:B1:116:TYR:CZ	2.53	0.44
2:B1:131:GLN:HA	2:B1:134:LYS:NZ	2.21	0.44
1:C1:29:PHE:CZ	1:C1:99:GLY:HA3	2.53	0.44
1:H1:142:SER:O	1:H1:146:ALA:N	2.40	0.44
1:G2:141:LEU:HB3	1:G2:145:ASP:OD1	2.18	0.44
1:O2:22:GLU:O	1:O2:26:ILE:HG13	2.18	0.44
2:P2:3:ASP:N	2:P2:6:THR:OG1	2.47	0.44
2:R2:111:GLY:O	2:R2:114:GLU:HG3	2.18	0.44
1:U2:57:GLN:NE2	2:p2:117:ASN:OD1	2.50	0.44
2:V2:91:TYR:HE2	6:V2:201:CYC:HBB1	1.83	0.44
1:Y2:68:PRO:HA	1:Y2:73:TYR:CE2	2.53	0.44
1:c2:18:LEU:HD11	2:d2:94:TYR:HE1	1.82	0.44
2:d2:126:THR:O	2:d2:130:ILE:HG13	2.18	0.44
2:f2:10:ASN:O	2:f2:14:VAL:HG13	2.17	0.44
2:l2:73:TYR:HB3	2:l2:77:ARG:HH21	1.83	0.44
2:l2:81:CYS:HA	6:k3:1204:CYC:HAC1	1.82	0.44
1:s2:35:ARG:NH2	1:s2:144:ASP:HB3	2.33	0.44
1:s2:56:ASP:O	1:s2:60:GLN:HG3	2.17	0.44
1:u2:92:VAL:CG2	1:u2:156:LEU:HD12	2.47	0.44
2:v2:141:VAL:HG21	2:v2:146:ALA:HA	2.00	0.44
4:w2:7:VAL:HG11	4:w2:37:TRP:CZ3	2.53	0.44
4:w2:41:GLN:O	4:w2:45:GLN:HG2	2.18	0.44
1:G3:52:LYS:HE2	1:G3:52:LYS:HA	1.99	0.44
2:H3:133:MET:O	2:H3:137:VAL:HG12	2.17	0.44
6:H3:201:CYC:CBA	4:i3:26:THR:HG21	2.48	0.44
1:I3:3:VAL:HG13	1:I3:25:ARG:NH2	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K3:34:GLU:OE2	1:K3:34:GLU:N	2.51	0.44
1:O3:109:ILE:HD12	1:O3:110:ILE:N	2.33	0.44
2:R3:135:GLU:OE1	2:R3:135:GLU:HA	2.18	0.44
1:U3:17:TYR:HE1	2:V3:90:ARG:HA	1.81	0.44
2:V3:75:THR:HG22	1:W3:115:MET:HE1	2.00	0.44
1:W3:47:ARG:HH12	1:W3:90:ARG:N	2.15	0.44
1:a3:27:LYS:NZ	2:g3:38:VAL:HG11	2.32	0.44
2:b3:36:VAL:O	2:b3:39:ARG:HG2	2.18	0.44
2:f3:131:GLN:O	2:f3:135:GLU:HG2	2.17	0.44
2:g3:122:PRO:O	2:g3:126:THR:HG22	2.18	0.44
5:j3:320:GLU:O	5:j3:323:VAL:HG12	2.17	0.44
5:j3:788:PHE:O	5:j3:792:GLU:HG3	2.18	0.44
5:j3:1060:GLU:O	5:j3:1063:THR:HG22	2.17	0.44
5:k3:538:PHE:HB3	5:k3:567:LEU:CD2	2.48	0.44
1:C1:101:VAL:HG11	1:C1:155:TYR:CD2	2.53	0.44
2:G1:60:LEU:HD13	2:G1:72:MET:HE2	2.00	0.44
2:J1:160:LEU:HD12	2:J1:160:LEU:HA	1.79	0.44
3:K1:36:ARG:HA	3:K1:39:VAL:HG23	1.98	0.44
3:K1:157:ILE:H	3:K1:157:ILE:HG13	1.63	0.44
1:C2:42:THR:O	1:C2:45:GLU:HG3	2.17	0.44
2:F2:50:THR:HG22	2:F2:54:GLU:OE2	2.18	0.44
1:Q2:115:MET:HE1	6:Q2:201:CYC:C1B	2.48	0.44
2:R2:36:VAL:CG1	2:R2:145:ALA:HB2	2.47	0.44
1:S2:8:ILE:HD11	2:T2:94:TYR:CG	2.53	0.44
2:T2:124:ALA:O	2:T2:127:VAL:HG22	2.18	0.44
1:U2:109:ILE:HD11	1:U2:156:LEU:HD22	1.99	0.44
2:X2:51:ILE:HG12	2:X2:136:VAL:HG23	2.00	0.44
2:b2:57:ALA:HA	2:b2:61:ILE:CD1	2.46	0.44
1:c2:4:LEU:O	1:c2:8:ILE:HG23	2.17	0.44
1:c2:94:TYR:CD2	2:d2:9:ILE:HG23	2.53	0.44
1:c2:134:LYS:O	1:c2:138:THR:HG22	2.17	0.44
2:d2:137:VAL:O	2:d2:141:VAL:HG22	2.18	0.44
1:e2:102:THR:N	1:e2:103:PRO:HD2	2.33	0.44
1:g2:49:ARG:NH2	1:g2:140:LEU:HD11	2.33	0.44
1:k2:43:LEU:CD1	1:k2:141:LEU:HD11	2.42	0.44
2:l2:137:VAL:O	2:l2:141:VAL:HG22	2.18	0.44
1:m2:75:GLU:OE1	1:m2:75:GLU:N	2.47	0.44
2:n2:1:MET:HE2	2:n2:2:GLN:N	2.33	0.44
2:n2:12:TYR:OH	2:n2:20:ASP:OD1	2.31	0.44
1:o2:27:LYS:HZ3	2:p2:35:ALA:HA	1.82	0.44
2:B3:131:GLN:O	2:B3:135:GLU:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F3:3:ASP:N	2:F3:3:ASP:OD1	2.50	0.44
2:F3:60:LEU:HB3	2:F3:72:MET:CE	2.42	0.44
1:G3:12:ASP:OD2	2:H3:107:ARG:NH1	2.51	0.44
1:K3:76:LYS:HG3	1:K3:77:MET:CE	2.48	0.44
1:M3:62:ARG:HE	1:M3:62:ARG:HB3	1.51	0.44
1:O3:43:LEU:HD11	1:O3:141:LEU:HD11	2.00	0.44
6:S3:201:CYC:HMA1	6:S3:201:CYC:NB	2.26	0.44
2:V3:75:THR:OG1	1:W3:110:ILE:O	2.21	0.44
2:b3:18:TYR:CD2	5:k3:61:THR:HG22	2.52	0.44
2:f3:1:MET:HE2	2:f3:2:GLN:N	2.33	0.44
2:f3:20:ASP:O	2:f3:24:LEU:HG	2.18	0.44
2:f3:148:GLU:O	2:f3:151:ILE:HG12	2.18	0.44
5:j3:10:THR:O	2:h3:118:SER:HB2	2.17	0.44
5:j3:690:LEU:O	5:j3:690:LEU:HD22	2.17	0.44
5:j3:912:VAL:C	5:j3:914:PRO:HD3	2.42	0.44
5:j3:1089:LEU:O	5:j3:1093:VAL:HG12	2.17	0.44
2:h3:60:LEU:HD11	2:h3:85:MET:HE1	1.99	0.44
1:C1:24:ASP:HB3	5:k3:45:GLN:CD	2.43	0.44
2:D1:142:GLY:O	2:D1:146:ALA:HB2	2.17	0.44
2:F1:104:LEU:HD23	2:F1:108:VAL:HG21	1.99	0.44
1:E1:113:LYS:HD3	1:E1:113:LYS:HA	1.86	0.44
2:J1:1:MET:HG2	2:J1:103:ILE:HA	1.99	0.44
3:K1:67:ASN:O	3:K1:73:TYR:HB2	2.18	0.44
2:B2:148:GLU:OE1	2:B2:148:GLU:HA	2.18	0.44
1:C2:6:LYS:HE3	1:C2:6:LYS:HB2	1.59	0.44
1:C2:91:LEU:HD11	1:C2:107:ILE:HG22	1.99	0.44
2:D2:44:ILE:HD12	2:D2:96:MET:HE1	2.00	0.44
1:I2:138:THR:OG1	1:I2:146:ALA:HB1	2.17	0.44
1:Q2:121:THR:HG23	1:Q2:122:PRO:HD2	1.99	0.44
1:W2:43:LEU:HD23	1:W2:43:LEU:HA	1.68	0.44
1:Y2:95:GLY:HA3	1:Y2:104:ILE:CD1	2.48	0.44
2:Z2:85:MET:HA	2:Z2:88:PHE:CD2	2.52	0.44
1:a2:24:ASP:OD1	1:a2:24:ASP:N	2.50	0.44
1:a2:40:ALA:CB	1:a2:97:VAL:HG13	2.47	0.44
2:b2:1:MET:HG3	2:b2:103:ILE:HB	1.99	0.44
2:d2:61:ILE:HG13	2:d2:62:TYR:CE2	2.53	0.44
1:e2:68:PRO:HA	1:e2:73:TYR:CD2	2.52	0.44
1:e2:105:GLU:HG2	1:e2:155:TYR:OH	2.17	0.44
1:g2:40:ALA:CB	1:g2:97:VAL:HG13	2.48	0.44
1:o2:53:GLN:HE21	1:o2:53:GLN:HB3	1.58	0.44
2:p2:116:TYR:CD1	2:p2:121:VAL:HG21	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:p2:130:ILE:HA	2:p2:133:MET:SD	2.58	0.44
2:v2:87:TYR:HE1	5:j3:1009:ALA:HA	1.83	0.44
1:C3:39:ILE:O	1:C3:43:LEU:HD23	2.17	0.44
1:G3:106:GLU:HG2	5:j3:557:VAL:O	2.18	0.44
2:N3:64:ASP:OD1	2:N3:67:ARG:NH1	2.51	0.44
2:P3:99:GLY:HA2	2:P3:152:TYR:OH	2.18	0.44
1:Q3:58:LEU:HB2	1:Q3:129:GLY:HA2	1.99	0.44
2:R3:20:ASP:O	2:R3:24:LEU:HG	2.18	0.44
1:U3:34:GLU:HA	1:U3:37:LEU:HD23	1.99	0.44
1:W3:53:GLN:OE1	1:W3:57:GLN:HG3	2.18	0.44
1:c3:6:LYS:HD3	1:c3:100:ASP:OD2	2.18	0.44
2:d3:71:MEN:O	2:d3:77:ARG:HD3	2.18	0.44
2:f3:52:ILE:HG12	2:f3:133:MET:CE	2.47	0.44
2:f3:64:ASP:HA	2:f3:67:ARG:HG2	1.99	0.44
5:j3:743:VAL:HG22	6:j3:1202:CYC:O1D	2.18	0.44
5:j3:1129:ARG:HA	5:j3:1133:GLU:HB3	2.00	0.44
5:k3:237:ASP:HB3	5:k3:238:ARG:CZ	2.48	0.44
5:k3:974:LEU:HD13	5:k3:978:LEU:HD13	2.00	0.44
2:h3:134:LYS:HD2	2:h3:150:SER:HA	2.00	0.44
1:A1:142:SER:O	1:A1:146:ALA:HB2	2.18	0.43
1:C1:71:ASN:O	1:C1:77:MET:HE3	2.17	0.43
1:C1:98:ALA:HB2	2:D1:9:ILE:CD1	2.47	0.43
2:D1:56:ALA:CB	2:D1:60:LEU:HD11	2.47	0.43
1:E1:8:ILE:HB	2:G1:1:MET:HE1	2.00	0.43
3:L1:62:ARG:NH1	3:L1:125:ALA:HB2	2.33	0.43
1:C2:34:GLU:O	1:C2:37:LEU:HG	2.18	0.43
2:J2:112:LEU:HD23	2:J2:160:LEU:HD21	1.98	0.43
2:N2:137:VAL:O	2:N2:141:VAL:HG22	2.18	0.43
2:V2:24:LEU:HA	2:V2:27:LEU:CD2	2.48	0.43
1:Y2:116:TYR:HB2	1:Y2:123:ILE:HG12	2.00	0.43
2:Z2:72:MET:HE1	2:Z2:81:CYS:SG	2.59	0.43
1:k2:37:LEU:HD22	2:l2:24:LEU:CD2	2.44	0.43
2:l2:148:GLU:O	2:l2:151:ILE:HG12	2.17	0.43
1:s2:59:PHE:CZ	1:s2:78:THR:HG23	2.53	0.43
1:s2:87:TYR:O	1:s2:91:LEU:HG	2.18	0.43
2:t2:3:ASP:N	2:t2:6:THR:OG1	2.47	0.43
2:t2:61:ILE:HG13	2:t2:62:TYR:CE2	2.53	0.43
1:A3:19:SER:C	1:A3:21:GLY:N	2.74	0.43
1:A3:138:THR:CG2	1:A3:146:ALA:HB1	2.40	0.43
2:B3:122:PRO:HG2	6:z3:101:CYC:HMC1	1.99	0.43
1:U3:36:ARG:NH1	1:U3:152:TYR:OH	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z3:5:ILE:HG12	2:Z3:27:LEU:HD22	2.00	0.43
1:c3:85:LEU:HB3	1:c3:133:MET:CE	2.48	0.43
2:f3:90:ARG:HB2	5:j3:34:TYR:CZ	2.53	0.43
5:j3:81:PRO:HB2	5:j3:82:MET:HE2	1.99	0.43
5:j3:481:ILE:HG13	5:j3:484:GLY:H	1.83	0.43
5:j3:574:GLN:HG2	5:j3:680:PRO:O	2.18	0.43
5:j3:1127:SER:HA	5:j3:1130:VAL:HG22	1.99	0.43
5:k3:175:ASP:HB2	5:k3:176:PRO:HD2	1.99	0.43
5:k3:690:LEU:O	5:k3:690:LEU:HD22	2.17	0.43
2:h3:116:TYR:CD1	2:h3:121:VAL:HG11	2.53	0.43
1:A1:2:SER:O	1:A1:6:LYS:HG2	2.18	0.43
1:A1:130:VAL:CG2	1:A1:160:MET:HE1	2.48	0.43
1:C1:42:THR:O	1:C1:45:GLU:HG3	2.18	0.43
2:F1:10:ASN:HB3	3:K1:106:ARG:NH2	2.33	0.43
2:F1:37:ARG:O	2:F1:96:MET:HE1	2.17	0.43
1:E1:5:THR:O	1:E1:9:VAL:HG23	2.18	0.43
1:H1:8:ILE:HD12	1:H1:18:LEU:HD21	2.00	0.43
1:H1:14:GLU:HG3	1:H1:16:ARG:NH2	2.33	0.43
2:J1:28:LYS:HE2	2:J1:28:LYS:HB2	1.69	0.43
3:L1:126:MET:CE	6:L1:201:CYC:HMC2	2.43	0.43
1:C2:98:ALA:HB2	2:D2:9:ILE:CD1	2.48	0.43
1:M2:5:THR:HA	2:N2:1:MET:CE	2.47	0.43
2:N2:36:VAL:HA	2:N2:39:ARG:NH1	2.33	0.43
2:N2:64:ASP:OD1	2:N2:67:ARG:NH1	2.50	0.43
1:O2:89:LEU:HB2	1:O2:133:MET:CE	2.48	0.43
1:Q2:58:LEU:HD13	1:Q2:129:GLY:N	2.34	0.43
6:Q2:201:CYC:HMA1	6:Q2:201:CYC:NB	2.32	0.43
2:R2:2:GLN:N	2:R2:102:SER:OG	2.45	0.43
2:T2:36:VAL:HG13	2:T2:144:ASP:OD2	2.17	0.43
1:W2:130:VAL:O	1:W2:133:MET:HB2	2.16	0.43
2:Z2:85:MET:HA	2:Z2:88:PHE:HD2	1.83	0.43
1:a2:43:LEU:CD1	1:a2:141:LEU:HD11	2.48	0.43
1:c2:50:ILE:CD1	1:c2:136:VAL:HG12	2.48	0.43
1:c2:93:THR:HA	1:c2:96:ILE:HD12	2.00	0.43
2:f2:20:ASP:O	2:f2:24:LEU:HG	2.18	0.43
1:g2:115:MET:HA	1:g2:115:MET:HE2	2.00	0.43
2:n2:144:ASP:N	2:n2:144:ASP:OD1	2.51	0.43
1:s2:27:LYS:NZ	2:t2:35:ALA:HA	2.32	0.43
1:A3:123:ILE:HD12	1:A3:123:ILE:H	1.83	0.43
2:D3:148:GLU:HA	2:D3:151:ILE:CD1	2.47	0.43
2:L3:12:TYR:HB3	2:L3:17:LYS:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N3:36:VAL:CG1	2:N3:145:ALA:HB2	2.48	0.43
1:O3:34:GLU:O	1:O3:37:LEU:HG	2.18	0.43
2:T3:73:TYR:O	2:T3:77:ARG:HB2	2.18	0.43
1:U3:122:PRO:HG2	1:U3:125:ALA:HB3	1.99	0.43
1:Y3:96:ILE:HA	1:Y3:152:TYR:CE2	2.53	0.43
1:Y3:109:ILE:O	1:Y3:112:VAL:HG12	2.18	0.43
5:j3:1016:LEU:HD22	5:j3:1044:ASN:ND2	2.32	0.43
5:k3:549:LYS:HE3	5:k3:550:GLY:H	1.83	0.43
5:k3:764:PHE:CE1	5:k3:795:LEU:HG	2.52	0.43
5:k3:1063:THR:O	5:k3:1067:LEU:HB2	2.18	0.43
2:h3:81:CYS:O	2:h3:82:ILE:HB	2.18	0.43
1:C1:94:TYR:O	1:C1:97:VAL:HG22	2.18	0.43
2:F1:160:LEU:HD12	2:F1:160:LEU:HA	1.74	0.43
2:G1:112:LEU:HD12	2:G1:112:LEU:HA	1.85	0.43
3:L1:25:GLN:HG3	1:e3:25:ARG:CG	2.41	0.43
4:z1:3:ARG:CB	4:z1:58:THR:HB	2.48	0.43
1:G2:126:VAL:CG1	1:G2:160:MET:HE1	2.40	0.43
2:H2:47:ASN:O	2:H2:51:ILE:HD12	2.19	0.43
1:M2:22:GLU:HA	1:M2:25:ARG:HG2	1.99	0.43
1:M2:105:GLU:HA	1:M2:109:ILE:CD1	2.49	0.43
2:N2:91:TYR:HB3	2:N2:104:LEU:HD23	2.00	0.43
2:T2:130:ILE:HG13	2:T2:156:LEU:HD22	2.01	0.43
2:V2:105:ASP:HA	2:V2:109:LEU:HD12	1.99	0.43
1:Y2:47:ARG:HB2	1:Y2:89:LEU:HD21	2.00	0.43
1:Y2:49:ARG:HH11	1:Y2:53:GLN:HG3	1.83	0.43
1:c2:20:PRO:HG3	1:m2:155:TYR:CD1	2.53	0.43
2:d2:133:MET:O	2:d2:137:VAL:HG23	2.17	0.43
2:f2:78:TYR:CE2	1:g2:115:MET:HE2	2.54	0.43
2:n2:147:LYS:H	2:n2:147:LYS:HG3	1.60	0.43
2:r2:51:ILE:HA	2:r2:136:VAL:HG11	1.99	0.43
1:u2:22:GLU:O	1:u2:25:ARG:HG2	2.18	0.43
1:A3:77:MET:H	1:A3:77:MET:HG2	1.52	0.43
2:B3:47:ASN:O	2:B3:51:ILE:HD12	2.19	0.43
2:L3:73:TYR:O	2:L3:77:ARG:HB2	2.18	0.43
1:U3:23:LEU:HD22	2:V3:38:VAL:HG13	2.00	0.43
2:V3:84:ASP:OD2	2:V3:116:TYR:OH	2.29	0.43
1:W3:35:ARG:HG3	1:W3:38:ARG:NH2	2.32	0.43
1:W3:37:LEU:HD13	2:X3:28:LYS:NZ	2.33	0.43
2:X3:1:MET:HE3	2:X3:1:MET:HB2	1.83	0.43
2:Z3:67:ARG:NH1	5:k3:705:THR:OG1	2.48	0.43
2:Z3:91:TYR:OH	2:Z3:107:ARG:NH2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b3:61:ILE:HD12	2:b3:62:TYR:CZ	2.53	0.43
5:j3:165:ARG:HG2	5:j3:169:TYR:CZ	2.53	0.43
5:j3:1033:ARG:HD2	5:j3:1102:TYR:CE2	2.48	0.43
5:k3:188:GLU:OE1	5:k3:188:GLU:N	2.51	0.43
2:F1:28:LYS:HE2	2:F1:28:LYS:HB2	1.88	0.43
1:E1:47:ARG:HA	1:E1:89:LEU:HD21	2.01	0.43
1:E1:49:ARG:HD3	1:E1:53:GLN:HE21	1.82	0.43
2:I1:110:ASN:OD1	5:j3:278:TYR:HB3	2.19	0.43
3:K1:20:VAL:HG21	1:a3:101:VAL:HG11	2.00	0.43
3:L1:46:ALA:O	3:L1:50:VAL:HG23	2.17	0.43
4:z1:11:ILE:CD1	4:z1:44:ILE:HG12	2.46	0.43
1:C2:144:ASP:N	1:C2:144:ASP:OD1	2.51	0.43
1:E2:25:ARG:NH2	1:O2:6:LYS:HE2	2.32	0.43
1:M2:37:LEU:HD12	2:N2:28:LYS:NZ	2.33	0.43
1:S2:85:LEU:CB	1:S2:133:MET:HE2	2.44	0.43
1:W2:132:ALA:O	1:W2:136:VAL:HG23	2.18	0.43
2:X2:127:VAL:O	2:X2:131:GLN:HG2	2.18	0.43
1:Y2:76:LYS:HG3	1:Y2:77:MET:SD	2.58	0.43
1:a2:160:MET:O	1:a2:161:GLN:NE2	2.50	0.43
2:b2:137:VAL:O	2:b2:141:VAL:HG22	2.17	0.43
1:c2:154:ASP:CG	2:n2:46:SER:HB2	2.42	0.43
1:c2:155:TYR:HB2	1:m2:20:PRO:HG3	2.00	0.43
2:d2:39:ARG:HB3	2:d2:39:ARG:NH1	2.33	0.43
1:e2:47:ARG:HB2	1:e2:89:LEU:CD2	2.49	0.43
1:e2:74:GLY:HA3	1:e2:77:MET:CE	2.47	0.43
2:f2:95:ALA:HB2	2:f2:104:LEU:HG	2.00	0.43
1:m2:4:LEU:HD23	1:m2:26:ILE:CD1	2.48	0.43
1:m2:50:ILE:HA	1:m2:136:VAL:CG1	2.40	0.43
2:p2:60:LEU:HB3	2:p2:72:MET:CE	2.48	0.43
1:u2:48:GLU:OE1	1:u2:48:GLU:N	2.37	0.43
1:u2:90:ARG:HD3	2:v2:18:TYR:CD1	2.52	0.43
6:A3:201:CYC:HMA3	6:A3:201:CYC:NB	2.32	0.43
1:C3:101:VAL:HG23	1:C3:105:GLU:OE1	2.19	0.43
1:E3:36:ARG:NH2	1:E3:99:GLY:HA2	2.32	0.43
2:F3:12:TYR:OH	2:F3:20:ASP:OD1	2.35	0.43
2:F3:40:ALA:HB3	2:F3:96:MET:CE	2.40	0.43
1:K3:21:GLY:HA3	1:U3:100:ASP:OD1	2.19	0.43
1:K3:156:LEU:HD22	1:K3:160:MET:HE1	2.01	0.43
1:M3:18:LEU:H	1:M3:18:LEU:HD12	1.83	0.43
1:Q3:105:GLU:HA	1:Q3:109:ILE:CD1	2.48	0.43
2:R3:65:LEU:HD12	5:k3:706:PRO:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V3:12:TYR:CZ	2:V3:23:ALA:HB2	2.53	0.43
2:V3:75:THR:HG22	1:W3:115:MET:HE2	1.99	0.43
2:X3:96:MET:HA	2:X3:152:TYR:CE2	2.53	0.43
1:Y3:134:LYS:O	1:Y3:138:THR:HG22	2.19	0.43
1:a3:133:MET:HE2	1:a3:133:MET:HB3	1.80	0.43
2:g3:105:ASP:O	2:g3:110:ASN:HB2	2.18	0.43
5:k3:20:VAL:CG1	5:k3:174:GLY:HA3	2.48	0.43
1:A1:101:VAL:HB	1:A1:155:TYR:CE2	2.54	0.43
1:C1:73:TYR:O	1:C1:77:MET:HE2	2.17	0.43
2:J1:76:ARG:CZ	4:M1:67:VAL:HG11	2.48	0.43
1:C2:76:LYS:HD2	1:C2:77:MET:CE	2.49	0.43
1:E2:67:SER:HB3	1:E2:68:PRO:HD2	2.01	0.43
2:F2:47:ASN:O	2:F2:51:ILE:HD12	2.19	0.43
1:M2:59:PHE:HZ	1:M2:78:THR:HG23	1.82	0.43
2:N2:89:LEU:HB2	2:N2:133:MET:HE1	2.00	0.43
2:N2:94:TYR:HB3	2:N2:103:ILE:HD13	1.99	0.43
2:N2:132:ALA:O	2:N2:135:GLU:HG3	2.18	0.43
1:Q2:156:LEU:HD23	1:Q2:156:LEU:HA	1.86	0.43
2:T2:119:LEU:HD11	6:T2:201:CYC:HAA2	2.00	0.43
1:W2:156:LEU:HD23	1:W2:156:LEU:HA	1.85	0.43
1:Y2:105:GLU:HA	1:Y2:109:ILE:CD1	2.47	0.43
6:c2:201:CYC:HMA3	6:c2:201:CYC:NB	2.30	0.43
2:d2:147:LYS:N	2:d2:147:LYS:HE2	2.33	0.43
2:l2:133:MET:HB2	2:l2:133:MET:HE3	1.76	0.43
2:n2:1:MET:HE2	2:n2:1:MET:C	2.43	0.43
2:n2:62:TYR:OH	6:o2:201:CYC:O1D	2.33	0.43
1:A3:76:LYS:HE2	1:A3:76:LYS:HB3	1.73	0.43
1:G3:161:GLN:HA	1:G3:161:GLN:OE1	2.19	0.43
2:R3:112:LEU:HD23	2:R3:160:LEU:HD21	2.01	0.43
6:X3:201:CYC:OB	5:j3:520:ARG:NH1	2.51	0.43
1:e3:5:THR:O	1:e3:9:VAL:HG12	2.17	0.43
1:e3:24:ASP:O	1:e3:27:LYS:N	2.37	0.43
1:e3:67:SER:O	1:e3:73:TYR:HB2	2.18	0.43
2:f3:147:LYS:HD3	2:f3:147:LYS:H	1.84	0.43
5:j3:84:TYR:CD2	5:j3:153:MET:HB3	2.54	0.43
5:j3:187:ARG:HH21	5:j3:234:LEU:HG	1.84	0.43
5:k3:214:PHE:HB3	5:k3:219:ASP:CG	2.44	0.43
5:k3:278:TYR:HB2	5:k3:284:PRO:CG	2.47	0.43
5:k3:743:VAL:HG22	6:k3:1202:CYC:CGD	2.49	0.43
5:k3:834:LYS:HG2	5:k3:834:LYS:O	2.16	0.43
5:k3:1016:LEU:HD22	5:k3:1044:ASN:OD1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k3:1030:ILE:HG13	5:k3:1034:GLU:HB2	2.01	0.43
2:h3:11:ASN:O	2:h3:15:GLN:NE2	2.47	0.43
2:h3:122:PRO:HD2	6:h3:201:CYC:HMC3	1.99	0.43
1:A1:109:ILE:O	1:A1:112:VAL:HG12	2.18	0.43
1:A1:114:GLU:OE2	5:k3:388:ARG:NH1	2.52	0.43
1:C1:14:GLU:OE1	5:k3:268:SER:OG	2.37	0.43
2:D1:49:THR:O	2:D1:53:LYS:HG3	2.18	0.43
2:F1:83:ARG:NH1	5:k3:391:SER:HB2	2.34	0.43
1:H1:83:ARG:NH1	6:H1:201:CYC:O1A	2.51	0.43
1:H1:91:LEU:HD11	1:H1:107:ILE:CG2	2.48	0.43
3:K1:3:VAL:HG12	3:K1:26:ILE:HD13	1.99	0.43
3:K1:127:ILE:HD11	3:K1:160:MET:O	2.19	0.43
3:L1:122:PRO:HB2	3:L1:125:ALA:CB	2.48	0.43
2:B2:67:ARG:O	2:B2:73:TYR:HB2	2.18	0.43
2:B2:74:THR:OG1	2:B2:77:ARG:HG3	2.19	0.43
1:E2:62:ARG:NH1	1:E2:125:ALA:HB2	2.33	0.43
2:L2:142:GLY:O	2:L2:146:ALA:HB2	2.19	0.43
1:M2:48:GLU:O	1:M2:52:LYS:HG2	2.18	0.43
2:P2:89:LEU:HB2	2:P2:133:MET:SD	2.59	0.43
1:S2:53:GLN:HA	1:S2:56:ASP:OD1	2.18	0.43
2:T2:8:VAL:HG21	2:T2:27:LEU:HD21	1.99	0.43
6:c2:201:CYC:HC	6:c2:201:CYC:HMD3	1.83	0.43
2:d2:3:ASP:H	2:d2:6:THR:HG1	1.65	0.43
1:g2:134:LYS:HG3	1:g2:153:PHE:HB2	1.99	0.43
2:h2:131:GLN:O	2:h2:135:GLU:HG2	2.18	0.43
2:l2:85:MET:HE3	2:l2:85:MET:HB2	1.87	0.43
2:n2:105:ASP:OD2	2:n2:155:TYR:OH	2.22	0.43
1:o2:91:LEU:HD23	1:o2:91:LEU:HA	1.79	0.43
2:p2:78:TYR:O	2:p2:82:ILE:HG13	2.18	0.43
1:q2:22:GLU:HA	1:q2:25:ARG:HG2	2.01	0.43
1:q2:106:GLU:CB	5:j3:1143:LEU:HD12	2.40	0.43
2:r2:96:MET:HG2	2:r2:148:GLU:OE1	2.19	0.43
2:r2:135:GLU:OE1	2:r2:135:GLU:HA	2.19	0.43
1:s2:123:ILE:HG22	1:s2:160:MET:CE	2.49	0.43
2:v2:35:ALA:HB1	2:v2:39:ARG:CZ	2.49	0.43
2:v2:47:ASN:O	2:v2:51:ILE:HD12	2.18	0.43
4:z2:10:CYS:HB3	4:z2:52:LEU:HD21	2.01	0.43
4:x2:18:ARG:HE	4:x2:22:GLU:HG3	1.82	0.43
4:y2:15:LYS:HB2	4:y2:15:LYS:HE3	1.50	0.43
1:C3:132:ALA:O	1:C3:136:VAL:HG23	2.18	0.43
2:D3:76:ARG:HH12	1:E3:106:GLU:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I3:37:LEU:HD22	2:J3:24:LEU:CD2	2.49	0.43
2:J3:106:GLU:CG	2:J3:107:ARG:HG3	2.48	0.43
6:J3:201:CYC:HC	6:J3:201:CYC:HMD3	1.83	0.43
2:P3:160:LEU:HD23	2:P3:160:LEU:HA	1.85	0.43
2:T3:137:VAL:O	2:T3:141:VAL:HG22	2.19	0.43
2:T3:148:GLU:OE2	2:T3:148:GLU:HA	2.18	0.43
1:U3:34:GLU:O	1:U3:37:LEU:HG	2.18	0.43
2:V3:114:GLU:HG3	5:j3:473:GLY:HA3	2.01	0.43
1:a3:6:LYS:HG3	1:a3:100:ASP:OD2	2.18	0.43
4:z3:8:THR:HG23	4:z3:29:THR:OG1	2.18	0.43
5:j3:222:LEU:HD23	5:j3:222:LEU:HA	1.79	0.43
5:j3:917:LYS:HE3	5:j3:917:LYS:HB3	1.50	0.43
6:j3:1205:CYC:HBD1	6:j3:1205:CYC:O1A	2.18	0.43
5:k3:15:ARG:HD3	5:k3:16:LEU:N	2.34	0.43
2:h3:92:ALA:HA	2:h3:95:ALA:CB	2.48	0.43
2:h3:113:LYS:H	2:h3:113:LYS:HG3	1.62	0.43
1:A1:8:ILE:CG2	2:B1:1:MET:HE1	2.47	0.43
1:A1:107:ILE:O	2:F1:74:THR:HB	2.19	0.43
2:F1:3:ASP:HB2	2:F1:98:ALA:O	2.19	0.43
2:F1:34:GLY:O	2:F1:37:ARG:HB2	2.19	0.43
2:F1:36:VAL:CG1	2:F1:145:ALA:HB2	2.48	0.43
1:H1:39:ILE:HD11	1:H1:145:ASP:OD2	2.19	0.43
2:I1:39:ARG:O	2:I1:43:VAL:HG23	2.18	0.43
2:I1:122:PRO:HG2	2:I1:125:ALA:HB3	1.99	0.43
2:J1:114:GLU:HA	2:J1:117:ASN:HB3	2.00	0.43
1:A2:41:GLN:HA	1:A2:44:THR:HG22	2.00	0.43
1:C2:50:ILE:HA	1:C2:136:VAL:CG1	2.41	0.43
1:E2:39:ILE:HG12	1:E2:145:ASP:HB3	2.00	0.43
2:F2:142:GLY:O	2:F2:146:ALA:HB2	2.19	0.43
1:G2:107:ILE:HD13	2:H2:13:ASP:OD2	2.18	0.43
2:L2:36:VAL:CG1	2:L2:145:ALA:HB2	2.48	0.43
1:M2:112:VAL:CA	1:M2:115:MET:HB2	2.46	0.43
2:N2:10:ASN:CB	4:z2:65:THR:HB	2.48	0.43
2:N2:39:ARG:HB2	2:N2:39:ARG:HH11	1.83	0.43
2:R2:134:LYS:NZ	2:R2:154:ASP:OD1	2.49	0.43
1:a2:10:ASN:ND2	1:a2:22:GLU:OE2	2.52	0.43
2:f2:61:ILE:HG13	2:f2:62:TYR:CE2	2.53	0.43
2:j2:74:THR:HG21	4:y2:64:ASN:HB2	1.99	0.43
2:n2:28:LYS:HA	2:n2:28:LYS:HD3	1.82	0.43
2:n2:95:ALA:HB2	2:n2:104:LEU:HG	2.00	0.43
1:o2:75:GLU:OE2	1:G3:138:THR:HG21	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q2:9:VAL:HG13	5:j3:1051:GLU:OE1	2.18	0.43
1:A3:101:VAL:HB	1:A3:155:TYR:CE2	2.53	0.43
1:C3:71:ASN:ND2	1:C3:120:GLN:O	2.52	0.43
1:E3:43:LEU:HD21	1:E3:141:LEU:HD11	2.01	0.43
6:F3:201:CYC:HAA2	5:k3:546:PHE:HE2	1.83	0.43
1:I3:52:LYS:HE3	1:I3:52:LYS:HB3	1.86	0.43
1:I3:57:GLN:O	1:I3:61:ILE:HG12	2.19	0.43
2:J3:28:LYS:HB2	2:J3:28:LYS:HE2	1.57	0.43
2:N3:78:TYR:O	2:N3:82:ILE:HG23	2.19	0.43
2:N3:82:ILE:HD11	1:O3:114:GLU:HB3	2.00	0.43
2:P3:75:THR:HG22	1:Q3:115:MET:HE2	2.00	0.43
1:Q3:22:GLU:O	1:Q3:26:ILE:HG13	2.19	0.43
2:Z3:63:SER:OG	5:k3:703:LEU:HB2	2.19	0.43
1:a3:16:ARG:HH12	1:a3:19:SER:HB2	1.84	0.43
2:b3:53:LYS:HA	2:b3:53:LYS:HD3	1.56	0.43
1:c3:15:ALA:O	5:j3:385:PRO:HB3	2.19	0.43
1:e3:12:ASP:OD2	2:h3:107:ARG:NH1	2.52	0.43
2:g3:28:LYS:O	2:g3:32:THR:HG23	2.19	0.43
5:j3:52:ARG:O	5:j3:56:ILE:HG13	2.19	0.43
5:j3:353:ASN:O	5:j3:357:LEU:HG	2.18	0.43
5:k3:426:LEU:HB2	5:k3:440:TYR:OH	2.19	0.43
5:k3:586:LEU:HD21	5:k3:610:SER:HB2	1.99	0.43
2:B1:73:TYR:CD2	2:B1:74:THR:HG23	2.53	0.43
2:D1:73:TYR:O	2:D1:74:THR:OG1	2.29	0.43
2:F1:1:MET:HE2	2:F1:103:ILE:CD1	2.49	0.43
1:H1:57:GLN:CG	1:H1:132:ALA:HB1	2.47	0.43
1:H1:78:THR:O	1:H1:82:LEU:HG	2.19	0.43
2:I1:75:THR:HG21	3:L1:112:ILE:CD1	2.48	0.43
2:I1:91:TYR:OH	4:M1:21:ARG:NH2	2.52	0.43
2:I1:137:VAL:O	2:I1:141:VAL:HG22	2.18	0.43
3:L1:26:ILE:HD13	3:L1:26:ILE:HA	1.62	0.43
1:A2:87:TYR:O	1:A2:91:LEU:HG	2.19	0.43
1:C2:145:ASP:OD1	1:C2:145:ASP:N	2.49	0.43
1:I2:50:ILE:HA	1:I2:136:VAL:CG1	2.42	0.43
1:K2:113:LYS:HB2	1:K2:113:LYS:HE2	1.54	0.43
1:O2:49:ARG:NH2	1:O2:140:LEU:HD21	2.34	0.43
1:O2:63:PRO:HG2	5:j3:1152:TYR:OH	2.19	0.43
1:a2:87:TYR:HB3	6:a2:201:CYC:HBB3	1.99	0.43
2:b2:81:CYS:O	2:b2:84:ASP:HB2	2.19	0.43
1:g2:4:LEU:HD21	1:g2:26:ILE:HG23	2.00	0.43
1:i2:156:LEU:O	1:i2:160:MET:HE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j2:57:ALA:HA	2:j2:61:ILE:HD11	2.01	0.43
1:m2:5:THR:HG21	1:m2:102:THR:HG21	2.00	0.43
1:m2:35:ARG:NH1	1:m2:144:ASP:OD2	2.52	0.43
2:p2:23:ALA:O	2:p2:27:LEU:HG	2.19	0.43
2:F3:142:GLY:O	2:F3:146:ALA:HB2	2.19	0.43
2:H3:76:ARG:NH2	6:H3:201:CYC:O1D	2.49	0.43
1:I3:104:ILE:HD11	1:I3:155:TYR:CE2	2.53	0.43
1:K3:27:LYS:O	1:K3:30:VAL:HG22	2.19	0.43
1:M3:89:LEU:O	1:M3:93:THR:HG23	2.18	0.43
6:O3:201:CYC:HMA1	6:O3:201:CYC:NB	2.28	0.43
2:P3:137:VAL:O	2:P3:141:VAL:HG22	2.19	0.43
1:S3:89:LEU:O	1:S3:93:THR:HG23	2.18	0.43
2:b3:3:ASP:OD2	5:k3:21:MET:HG2	2.19	0.43
1:e3:109:ILE:HD12	1:e3:159:ALA:HB1	1.99	0.43
4:i3:6:LYS:HB3	4:i3:55:LYS:HB2	2.00	0.43
5:j3:1030:ILE:HD12	5:j3:1030:ILE:HA	1.77	0.43
5:k3:215:LYS:HB2	5:k3:217:GLU:OE2	2.19	0.43
5:k3:942:LYS:HE2	5:k3:942:LYS:HB2	1.77	0.43
5:k3:1129:ARG:HA	5:k3:1133:GLU:HB3	1.99	0.43
2:D1:111:GLY:O	2:D1:115:THR:HG22	2.18	0.43
2:G1:79:ALA:HA	2:G1:82:ILE:HD11	2.01	0.43
3:K1:142:SER:N	3:K1:145:GLU:OE1	2.30	0.43
1:E2:16:ARG:O	2:F2:94:TYR:OH	2.34	0.43
2:H2:96:MET:HE2	2:H2:96:MET:HB3	1.73	0.43
1:K2:6:LYS:HB2	1:K2:6:LYS:HE2	1.75	0.43
1:M2:122:PRO:HG2	1:M2:125:ALA:HB3	2.01	0.43
1:Q2:87:TYR:O	1:Q2:91:LEU:HD13	2.19	0.43
1:Q2:140:LEU:O	1:Q2:141:LEU:HD23	2.18	0.43
1:S2:4:LEU:CD2	1:S2:26:ILE:HD13	2.48	0.43
2:T2:91:TYR:O	2:T2:104:LEU:HD21	2.19	0.43
2:X2:65:LEU:O	2:X2:72:MET:HB2	2.19	0.43
2:Z2:148:GLU:OE2	2:Z2:151:ILE:HD11	2.18	0.43
1:c2:41:GLN:HG2	1:c2:45:GLU:OE2	2.18	0.43
1:c2:50:ILE:HG23	1:c2:136:VAL:CB	2.45	0.43
1:e2:134:LYS:O	1:e2:138:THR:HG22	2.19	0.43
1:g2:109:ILE:HG13	1:g2:110:ILE:N	2.33	0.43
1:o2:105:GLU:CG	1:o2:109:ILE:HD11	2.46	0.43
2:p2:131:GLN:O	2:p2:135:GLU:HG2	2.19	0.43
1:q2:97:VAL:HG21	2:r2:27:LEU:HD13	2.00	0.43
2:r2:107:ARG:HD2	5:j3:1053:TYR:O	2.19	0.43
1:s2:91:LEU:HD11	1:s2:107:ILE:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v2:21:GLY:HA2	2:v2:24:LEU:HG	2.00	0.43
2:D3:61:ILE:HG13	2:D3:62:TYR:CE2	2.53	0.43
1:G3:9:VAL:HG21	5:j3:560:VAL:HG21	2.00	0.43
2:H3:106:GLU:HA	5:j3:547:ARG:HH12	1.82	0.43
2:J3:57:ALA:HA	2:J3:61:ILE:CD1	2.49	0.43
6:L3:201:CYC:HC	6:L3:201:CYC:HMD3	1.83	0.43
1:S3:2:SER:OG	2:T3:3:ASP:OD2	2.37	0.43
2:b3:10:ASN:O	2:b3:14:VAL:HG13	2.19	0.43
4:z3:32:VAL:HG21	4:z3:40:GLU:HG3	2.00	0.43
5:j3:386:ILE:HD12	5:j3:386:ILE:HA	1.80	0.43
5:j3:1144:SER:OG	5:j3:1144:SER:O	2.34	0.43
5:k3:764:PHE:HE1	5:k3:795:LEU:HG	1.83	0.43
1:C1:27:LYS:HA	1:C1:30:VAL:HG22	2.01	0.43
1:E1:97:VAL:HG11	2:G1:19:LEU:HD13	2.01	0.43
3:K1:108:GLY:C	3:K1:112:ILE:HD11	2.44	0.43
1:C2:40:ALA:CB	1:C2:97:VAL:HG23	2.49	0.43
2:F2:57:ALA:HA	2:F2:61:ILE:CD1	2.48	0.43
1:G2:78:THR:O	1:G2:82:LEU:HG	2.19	0.43
1:M2:64:ASP:HA	1:M2:67:SER:HG	1.83	0.43
2:P2:153:PHE:O	2:P2:157:SER:OG	2.37	0.43
2:X2:57:ALA:HA	2:X2:61:ILE:CG1	2.49	0.43
1:Y2:59:PHE:CZ	1:Y2:78:THR:HG23	2.52	0.43
1:Y2:74:GLY:HA3	1:Y2:77:MET:CE	2.49	0.43
2:b2:101:PRO:HB2	2:b2:155:TYR:CE1	2.54	0.43
2:d2:73:TYR:O	2:d2:74:THR:OG1	2.35	0.43
2:f2:78:TYR:CE2	1:g2:115:MET:HA	2.54	0.43
2:f2:109:LEU:HD22	2:f2:159:GLY:HA3	2.01	0.43
2:h2:60:LEU:HB3	2:h2:72:MET:CE	2.39	0.43
2:h2:146:ALA:HB3	2:h2:147:LYS:HZ1	1.84	0.43
2:j2:10:ASN:O	2:j2:14:VAL:HG13	2.19	0.43
2:j2:137:VAL:O	2:j2:141:VAL:HG22	2.19	0.43
1:k2:138:THR:OG1	1:k2:146:ALA:HB1	2.19	0.43
2:l2:47:ASN:O	2:l2:51:ILE:HD12	2.18	0.43
2:n2:60:LEU:HB3	2:n2:72:MET:HE1	2.01	0.43
2:t2:71:MEN:OD1	6:j3:1205:CYC:HMD2	2.19	0.43
1:u2:157:VAL:O	1:u2:161:GLN:HG3	2.19	0.43
2:v2:107:ARG:O	6:v2:201:CYC:HBB1	2.19	0.43
2:v2:137:VAL:O	2:v2:141:VAL:HG22	2.19	0.43
1:A3:41:GLN:O	1:A3:45:GLU:HG2	2.18	0.43
1:A3:91:LEU:HD21	1:A3:107:ILE:HG21	2.00	0.43
2:B3:76:ARG:HD2	4:z3:14:LEU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F3:83:ARG:HD3	2:F3:87:TYR:CE2	2.54	0.43
2:J3:89:LEU:CB	2:J3:133:MET:HE1	2.47	0.43
2:N3:85:MET:HE3	2:N3:133:MET:SD	2.59	0.43
2:d3:61:ILE:HD12	2:d3:62:TYR:CZ	2.54	0.43
2:d3:109:LEU:HD21	2:d3:156:LEU:HD23	2.00	0.43
2:f3:36:VAL:HA	2:f3:39:ARG:CD	2.47	0.43
2:g3:89:LEU:HD12	2:g3:89:LEU:HA	1.72	0.43
5:j3:74:ARG:HH21	5:j3:75:ILE:CG2	2.31	0.43
5:j3:426:LEU:HB2	5:j3:440:TYR:OH	2.19	0.43
5:k3:772:TYR:HE1	5:k3:809:LEU:HD21	1.83	0.43
5:k3:774:GLN:HG2	5:k3:883:SER:H	1.83	0.43
5:k3:911:LEU:O	5:k3:913:VAL:N	2.52	0.43
1:A1:67:SER:HB3	1:A1:68:PRO:HD2	2.01	0.42
6:C1:201:CYC:HMA1	6:C1:201:CYC:NB	2.29	0.42
2:D1:93:THR:O	2:D1:97:LEU:HD23	2.19	0.42
2:F1:12:TYR:O	2:F1:15:GLN:NE2	2.51	0.42
1:E1:42:THR:HG21	1:E1:141:LEU:CD2	2.49	0.42
2:G1:78:TYR:O	2:G1:82:ILE:HG23	2.18	0.42
1:H1:58:LEU:HA	1:H1:61:ILE:HG22	2.01	0.42
1:H1:131:ARG:O	1:H1:134:LYS:HB3	2.19	0.42
2:I1:51:ILE:HG12	2:I1:140:LEU:CD2	2.49	0.42
2:B2:106:GLU:OE1	2:B2:107:ARG:HG2	2.19	0.42
2:D2:52:ILE:HD11	2:D2:86:ASP:HA	2.00	0.42
1:I2:115:MET:HB3	1:I2:115:MET:HE2	1.73	0.42
1:K2:144:ASP:N	1:K2:144:ASP:OD1	2.51	0.42
1:M2:77:MET:HE2	1:M2:77:MET:N	2.34	0.42
1:M2:110:ILE:O	2:R2:75:THR:OG1	2.22	0.42
2:N2:91:TYR:HB3	2:N2:104:LEU:CD2	2.49	0.42
2:R2:5:ILE:HG23	2:R2:27:LEU:HD11	2.01	0.42
2:T2:3:ASP:N	2:T2:6:THR:OG1	2.52	0.42
1:U2:91:LEU:HD21	1:U2:107:ILE:CG2	2.49	0.42
1:U2:105:GLU:HG2	1:U2:110:ILE:HG23	2.00	0.42
1:U2:158:GLY:O	1:U2:161:GLN:HB2	2.19	0.42
2:V2:57:ALA:HA	2:V2:61:ILE:HG12	2.00	0.42
1:W2:115:MET:HE2	6:W2:201:CYC:HMA3	2.00	0.42
2:Z2:101:PRO:HB2	2:Z2:155:TYR:CE1	2.53	0.42
1:a2:101:VAL:HG23	1:a2:105:GLU:OE1	2.19	0.42
1:c2:108:GLY:C	1:c2:109:ILE:HD12	2.44	0.42
1:e2:48:GLU:H	1:e2:49:ARG:NH2	2.16	0.42
1:g2:21:GLY:HA3	1:u2:100:ASP:OD1	2.19	0.42
2:h2:2:GLN:CD	2:h2:7:ALA:HB2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:p2:112:LEU:HD12	2:p2:112:LEU:HA	1.71	0.42
1:s2:54:ALA:HA	1:s2:132:ALA:HB1	2.01	0.42
1:s2:109:ILE:HD11	1:s2:159:ALA:O	2.19	0.42
2:v2:51:ILE:HG12	2:v2:136:VAL:CG2	2.46	0.42
4:y2:3:ARG:NH1	6:y2:101:CYC:O2D	2.52	0.42
1:A3:18:LEU:HB3	1:A3:22:GLU:CB	2.44	0.42
2:B3:22:ALA:HA	2:B3:25:ASP:OD1	2.19	0.42
1:C3:35:ARG:NH2	1:C3:144:ASP:HB3	2.34	0.42
1:C3:109:ILE:HD12	1:C3:159:ALA:HB1	2.01	0.42
1:E3:53:GLN:HA	1:E3:56:ASP:OD1	2.19	0.42
1:E3:90:ARG:HB2	2:F3:18:TYR:CZ	2.53	0.42
2:H3:40:ALA:HB3	2:H3:96:MET:CE	2.48	0.42
2:H3:57:ALA:HA	2:H3:61:ILE:HD11	2.00	0.42
2:H3:137:VAL:O	2:H3:141:VAL:HG22	2.18	0.42
2:L3:83:ARG:NH2	6:L3:201:CYC:O2A	2.52	0.42
1:M3:115:MET:HE2	2:R3:75:THR:HA	2.01	0.42
1:Q3:23:LEU:HD13	2:R3:42:ALA:HB2	2.01	0.42
1:Q3:122:PRO:O	1:Q3:126:VAL:HG23	2.19	0.42
2:T3:147:LYS:HD2	2:T3:148:GLU:H	1.84	0.42
1:U3:40:ALA:CB	1:U3:97:VAL:HG13	2.48	0.42
1:U3:97:VAL:HG21	2:V3:19:LEU:CD1	2.48	0.42
2:V3:1:MET:CE	2:V3:103:ILE:HD12	2.49	0.42
2:V3:65:LEU:C	2:V3:72:MET:HG2	2.44	0.42
1:Y3:8:ILE:CD1	2:Z3:98:ALA:HB2	2.49	0.42
2:g3:126:THR:O	2:g3:130:ILE:HG12	2.19	0.42
5:j3:1002:ARG:HA	5:j3:1006:ASP:O	2.19	0.42
1:A1:7:ALA:HB2	1:A1:25:ARG:HD3	2.01	0.42
1:C1:104:ILE:HG23	1:C1:156:LEU:HD21	2.01	0.42
1:E1:3:VAL:HG13	1:E1:25:ARG:CD	2.49	0.42
1:E1:53:GLN:HB2	1:E1:136:VAL:HG21	2.00	0.42
2:G1:5:ILE:O	2:G1:9:ILE:HG12	2.18	0.42
1:A2:154:ASP:OD1	2:N2:46:SER:HB3	2.19	0.42
2:B2:24:LEU:HA	2:B2:27:LEU:CD1	2.48	0.42
1:G2:90:ARG:HD3	2:H2:18:TYR:CD1	2.53	0.42
2:N2:73:TYR:O	2:N2:77:ARG:HB2	2.19	0.42
2:P2:24:LEU:HD23	2:P2:24:LEU:HA	1.85	0.42
2:R2:1:MET:HE2	2:R2:2:GLN:N	2.33	0.42
1:S2:89:LEU:HB2	1:S2:133:MET:SD	2.60	0.42
1:Y2:77:MET:H	1:Y2:77:MET:CE	2.27	0.42
2:Z2:10:ASN:O	2:Z2:14:VAL:HG13	2.19	0.42
1:c2:6:LYS:HE2	1:m2:10:ASN:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f2:41:ALA:N	2:f2:96:MET:HE1	2.34	0.42
1:g2:59:PHE:HZ	1:g2:78:THR:HG23	1.83	0.42
2:j2:129:GLY:O	2:j2:132:ALA:HB3	2.19	0.42
2:n2:54:GLU:O	2:n2:58:LYS:HG3	2.19	0.42
2:t2:22:ALA:HB1	2:t2:26:LYS:NZ	2.34	0.42
2:v2:130:ILE:HA	2:v2:133:MET:HE3	2.01	0.42
1:A3:49:ARG:HH21	1:A3:140:LEU:HD22	1.82	0.42
1:C3:106:GLU:N	1:C3:106:GLU:OE2	2.52	0.42
2:H3:57:ALA:HA	2:H3:61:ILE:CD1	2.50	0.42
2:H3:142:GLY:O	2:H3:146:ALA:HB2	2.19	0.42
1:K3:3:VAL:HG21	1:K3:29:PHE:CG	2.54	0.42
1:M3:60:GLN:OE1	1:M3:60:GLN:HA	2.19	0.42
1:M3:67:SER:O	1:M3:73:TYR:HB2	2.19	0.42
1:S3:16:ARG:CZ	1:S3:16:ARG:HB3	2.49	0.42
2:T3:82:ILE:HD11	1:U3:114:GLU:HB3	2.00	0.42
1:U3:131:ARG:O	1:U3:134:LYS:HB3	2.18	0.42
2:b3:39:ARG:HB3	2:b3:39:ARG:CZ	2.49	0.42
1:c3:115:MET:HE1	6:c3:201:CYC:NB	2.34	0.42
5:j3:18:ARG:HB3	5:j3:23:GLU:HG2	2.02	0.42
5:j3:471:PRO:HA	5:j3:501:ILE:HG12	2.00	0.42
5:j3:772:TYR:CE1	5:j3:809:LEU:HD21	2.54	0.42
5:j3:1148:THR:O	5:j3:1151:GLN:NE2	2.48	0.42
5:k3:249:SER:OG	5:k3:253:ARG:HG3	2.19	0.42
5:k3:743:VAL:HG22	6:k3:1202:CYC:O1D	2.19	0.42
5:k3:974:LEU:HD13	5:k3:974:LEU:O	2.20	0.42
2:B1:65:LEU:HB3	2:B1:72:MET:HB2	2.01	0.42
2:B1:133:MET:O	2:B1:137:VAL:HG22	2.19	0.42
1:C1:134:LYS:HE2	1:C1:150:GLY:HA2	2.01	0.42
2:I1:142:GLY:O	2:I1:146:ALA:HB2	2.20	0.42
3:L1:20:VAL:HG21	1:e3:155:TYR:CB	2.50	0.42
4:z1:3:ARG:NH1	4:z1:67:VAL:HG22	2.32	0.42
1:A2:138:THR:OG1	1:A2:146:ALA:HB1	2.19	0.42
1:G2:42:THR:HG21	1:G2:141:LEU:CD2	2.50	0.42
2:R2:57:ALA:HA	2:R2:61:ILE:CG1	2.48	0.42
2:T2:36:VAL:HA	2:T2:39:ARG:HD2	2.01	0.42
1:U2:6:LYS:HE3	1:U2:25:ARG:NH1	2.33	0.42
2:V2:64:ASP:OD1	2:V2:67:ARG:NH1	2.52	0.42
2:V2:134:LYS:HG3	2:V2:153:PHE:CD2	2.54	0.42
1:W2:22:GLU:HA	1:W2:25:ARG:HG2	2.00	0.42
1:a2:140:LEU:O	1:a2:141:LEU:HD23	2.20	0.42
1:i2:19:SER:HB3	1:s2:101:VAL:HG11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i2:41:GLN:HG2	1:i2:45:GLU:OE2	2.19	0.42
2:j2:119:LEU:HD22	6:y2:101:CYC:O2D	2.19	0.42
1:k2:35:ARG:NH2	1:k2:144:ASP:HB3	2.34	0.42
1:k2:78:THR:O	1:k2:82:LEU:HG	2.19	0.42
1:m2:49:ARG:CZ	1:m2:140:LEU:HD21	2.49	0.42
1:o2:150:GLY:O	1:o2:154:ASP:HB2	2.19	0.42
1:s2:35:ARG:NH1	1:s2:144:ASP:OD2	2.52	0.42
2:t2:65:LEU:O	2:t2:72:MET:HB3	2.20	0.42
1:u2:47:ARG:NH1	1:u2:86:ASP:OD1	2.39	0.42
2:v2:25:ASP:O	2:v2:28:LYS:HG2	2.20	0.42
2:v2:130:ILE:HA	2:v2:133:MET:HE2	2.01	0.42
4:w2:4:TYR:H	4:w2:58:THR:HB	1.83	0.42
2:J3:47:ASN:O	2:J3:51:ILE:HD12	2.18	0.42
2:J3:75:THR:HG21	1:K3:112:VAL:HG23	2.00	0.42
2:L3:52:ILE:HD13	2:L3:86:ASP:HB3	2.00	0.42
1:M3:37:LEU:HD22	2:N3:24:LEU:HD22	2.01	0.42
1:M3:54:ALA:CB	1:M3:133:MET:HG3	2.50	0.42
1:U3:22:GLU:H	1:U3:22:GLU:HG3	1.64	0.42
2:V3:85:MET:CE	2:V3:129:GLY:HA3	2.48	0.42
2:V3:148:GLU:O	2:V3:151:ILE:HG12	2.19	0.42
2:Z3:57:ALA:HA	2:Z3:61:ILE:CD1	2.49	0.42
1:a3:8:ILE:HD12	2:g3:98:ALA:CB	2.49	0.42
2:b3:4:ALA:HB3	2:b3:30:TYR:CD2	2.54	0.42
2:f3:67:ARG:O	2:f3:73:TYR:HB2	2.19	0.42
2:f3:147:LYS:H	2:f3:147:LYS:CD	2.31	0.42
2:g3:1:MET:HG2	2:g3:2:GLN:N	2.33	0.42
5:j3:143:ILE:HB	5:j3:146:ALA:HB3	2.01	0.42
5:k3:406:ILE:HD13	5:k3:406:ILE:HA	1.88	0.42
5:k3:1033:ARG:HD2	5:k3:1102:TYR:CE2	2.50	0.42
2:h3:46:SER:OG	2:h3:47:ASN:N	2.52	0.42
2:B1:90:ARG:HG2	2:B1:94:TYR:CE2	2.54	0.42
1:C1:48:GLU:OE2	1:C1:48:GLU:N	2.38	0.42
2:D1:79:ALA:CB	3:K1:114:GLU:HB3	2.50	0.42
1:H1:8:ILE:CG1	2:I1:97:LEU:HD11	2.50	0.42
2:J1:134:LYS:HD2	2:J1:150:SER:HB2	2.00	0.42
3:K1:20:VAL:HG21	1:a3:155:TYR:CB	2.49	0.42
3:K1:61:ARG:O	3:K1:63:PRO:HD3	2.19	0.42
1:G2:76:LYS:HD3	1:G2:76:LYS:H	1.85	0.42
2:L2:73:TYR:CD2	2:L2:74:THR:HG23	2.55	0.42
1:M2:37:LEU:HD23	1:M2:37:LEU:HA	1.76	0.42
1:O2:111:GLY:O	1:O2:114:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:113:LYS:HE3	1:Q2:113:LYS:HB2	1.75	0.42
1:S2:40:ALA:HA	1:S2:43:LEU:HD11	2.00	0.42
6:T2:201:CYC:HC	6:T2:201:CYC:CMD	2.32	0.42
2:V2:110:ASN:OD1	2:V2:110:ASN:N	2.53	0.42
6:X2:201:CYC:HC	6:X2:201:CYC:HMD3	1.84	0.42
1:Y2:33:GLY:O	1:Y2:37:LEU:HG	2.20	0.42
1:Y2:43:LEU:CD2	1:Y2:141:LEU:HD11	2.45	0.42
1:c2:106:GLU:OE2	1:c2:107:ILE:HG13	2.18	0.42
2:d2:46:SER:HB3	1:m2:154:ASP:HB3	2.00	0.42
2:f2:137:VAL:O	2:f2:141:VAL:HG22	2.19	0.42
2:j2:36:VAL:HG12	2:j2:145:ALA:HB2	2.00	0.42
6:k2:201:CYC:HMA3	6:k2:201:CYC:NB	2.32	0.42
1:m2:109:ILE:HD12	1:m2:109:ILE:HA	1.79	0.42
1:m2:134:LYS:HG3	1:m2:153:PHE:HB2	2.01	0.42
1:q2:106:GLU:HA	1:q2:110:ILE:CD1	2.50	0.42
4:y2:43:ARG:HE	5:j3:1103:LEU:HD22	1.84	0.42
2:B3:147:LYS:HD3	2:B3:148:GLU:N	2.31	0.42
2:D3:131:GLN:O	2:D3:135:GLU:HG2	2.19	0.42
2:J3:57:ALA:HA	2:J3:61:ILE:CG1	2.49	0.42
1:U3:34:GLU:HA	1:U3:37:LEU:CD2	2.49	0.42
1:U3:131:ARG:NH1	1:U3:157:VAL:HG11	2.34	0.42
1:W3:109:ILE:HD12	1:W3:110:ILE:N	2.35	0.42
1:Y3:22:GLU:O	1:Y3:25:ARG:HG2	2.20	0.42
1:Y3:64:ASP:HA	1:Y3:67:SER:OG	2.19	0.42
1:Y3:85:LEU:HB3	1:Y3:133:MET:CE	2.50	0.42
1:Y3:110:ILE:O	2:b3:75:THR:OG1	2.15	0.42
2:b3:24:LEU:HD13	5:k3:58:ALA:HB2	2.02	0.42
1:c3:49:ARG:NH2	1:c3:140:LEU:HD21	2.34	0.42
2:f3:28:LYS:HD3	2:f3:28:LYS:HA	1.34	0.42
2:f3:85:MET:CE	2:f3:133:MET:HE3	2.49	0.42
2:g3:73:TYR:CD2	2:g3:74:THR:HG23	2.55	0.42
4:i3:22:GLU:O	4:i3:26:THR:HG23	2.19	0.42
5:j3:184:LEU:HD13	5:j3:241:ALA:H	1.84	0.42
5:j3:325:ASN:CG	6:j3:1201:CYC:HAA1	2.45	0.42
5:k3:450:ARG:NH1	5:k3:454:GLN:HB3	2.33	0.42
5:k3:665:LEU:HD12	5:k3:665:LEU:HA	1.75	0.42
2:h3:65:LEU:HD23	6:h3:201:CYC:OC	2.19	0.42
1:C1:156:LEU:HD23	1:C1:156:LEU:HA	1.89	0.42
2:F1:9:ILE:HG23	3:K1:94:TYR:CD2	2.55	0.42
2:I1:10:ASN:O	2:I1:14:VAL:HG12	2.19	0.42
2:J1:1:MET:HG2	2:J1:103:ILE:HG13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K1:65:LEU:O	3:K1:72:ALA:HB3	2.19	0.42
4:M1:11:ILE:CD1	4:M1:44:ILE:HG12	2.49	0.42
1:A2:111:GLY:HA2	1:A2:114:GLU:OE1	2.19	0.42
2:B2:104:LEU:HD11	2:B2:152:TYR:HB3	2.01	0.42
1:C2:18:LEU:HD22	2:D2:97:LEU:CD1	2.49	0.42
2:D2:148:GLU:HG3	5:k3:930:LEU:CG	2.49	0.42
1:G2:115:MET:HG3	2:L2:78:TYR:CD1	2.54	0.42
1:Q2:79:ALA:HA	1:Q2:82:LEU:HG	2.02	0.42
1:S2:43:LEU:HD12	1:S2:44:THR:N	2.34	0.42
1:U2:89:LEU:O	1:U2:93:THR:HG23	2.20	0.42
1:Y2:39:ILE:O	1:Y2:43:LEU:HD23	2.20	0.42
2:Z2:73:TYR:O	2:Z2:74:THR:OG1	2.32	0.42
2:Z2:137:VAL:O	2:Z2:141:VAL:HG22	2.18	0.42
1:a2:43:LEU:HD11	1:a2:141:LEU:HD11	2.01	0.42
1:c2:88:TYR:OH	1:c2:112:VAL:HG21	2.19	0.42
1:c2:156:LEU:O	1:c2:160:MET:HE2	2.19	0.42
2:h2:73:TYR:CD2	2:h2:74:THR:HG23	2.55	0.42
1:i2:109:ILE:O	1:i2:112:VAL:HG12	2.20	0.42
1:m2:105:GLU:O	1:m2:109:ILE:HG22	2.19	0.42
1:o2:94:TYR:CE1	2:p2:19:LEU:HD23	2.54	0.42
2:p2:58:LYS:O	5:k3:1155:ARG:NH2	2.53	0.42
2:p2:147:LYS:N	2:p2:147:LYS:HD3	2.34	0.42
2:r2:91:TYR:CE2	6:j3:1204:CYC:HBB1	2.54	0.42
1:s2:97:VAL:HG11	2:t2:19:LEU:CD1	2.49	0.42
2:t2:89:LEU:HB2	2:t2:133:MET:HE3	2.01	0.42
1:u2:26:ILE:O	1:u2:30:VAL:HG13	2.18	0.42
1:C3:97:VAL:HG11	2:D3:19:LEU:HD13	2.01	0.42
1:E3:97:VAL:CG1	2:F3:27:LEU:HD13	2.45	0.42
1:E3:102:THR:HG23	1:E3:103:PRO:CD	2.44	0.42
1:O3:27:LYS:HA	1:O3:30:VAL:HG22	2.00	0.42
1:O3:134:LYS:O	1:O3:138:THR:HG22	2.20	0.42
1:W3:61:ILE:HD13	1:W3:128:GLU:OE2	2.20	0.42
1:W3:101:VAL:HB	1:W3:155:TYR:CE2	2.54	0.42
1:a3:104:ILE:HD11	1:a3:155:TYR:CE2	2.54	0.42
2:f3:12:TYR:CE1	2:f3:23:ALA:HB2	2.55	0.42
4:i3:5:PHE:N	4:i3:32:VAL:O	2.48	0.42
5:j3:31:GLU:OE2	5:j3:33:ARG:NE	2.46	0.42
5:j3:303:GLN:NE2	5:j3:363:HIS:O	2.48	0.42
5:j3:370:GLU:OE1	5:j3:435:ASN:ND2	2.42	0.42
5:j3:1012:PRO:HD2	5:j3:1017:ARG:NH1	2.34	0.42
5:k3:65:GLU:HG2	5:k3:87:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k3:237:ASP:HB3	5:k3:238:ARG:NH1	2.35	0.42
2:h3:142:GLY:O	2:h3:146:ALA:HB2	2.19	0.42
2:G1:35:ALA:O	2:G1:39:ARG:HG2	2.20	0.42
3:L1:101:ASN:HD21	1:e3:19:SER:CB	2.33	0.42
3:L1:126:MET:SD	6:L1:201:CYC:HBC3	2.59	0.42
4:z1:7:VAL:O	4:z1:29:THR:HA	2.19	0.42
4:z1:22:GLU:O	6:z1:101:CYC:HMA2	2.20	0.42
2:D2:17:LYS:HZ3	2:D2:17:LYS:HB2	1.84	0.42
2:D2:72:MET:HE2	2:D2:72:MET:HB2	1.90	0.42
2:F2:89:LEU:HB2	2:F2:133:MET:CE	2.49	0.42
1:M2:115:MET:CE	2:R2:78:TYR:HB3	2.48	0.42
1:O2:25:ARG:HH12	1:O2:28:SER:HB2	1.84	0.42
2:T2:137:VAL:O	2:T2:141:VAL:HG22	2.19	0.42
1:a2:136:VAL:O	1:a2:140:LEU:HG	2.20	0.42
1:e2:61:ILE:HG21	1:e2:128:GLU:HG2	2.01	0.42
2:f2:64:ASP:OD1	2:f2:67:ARG:NH1	2.53	0.42
2:f2:101:PRO:HB2	2:f2:155:TYR:CE2	2.55	0.42
1:i2:106:GLU:OE2	1:i2:107:ILE:HG13	2.20	0.42
6:m2:201:CYC:HMA3	6:m2:201:CYC:NB	2.35	0.42
2:r2:68:PRO:HG3	2:r2:73:TYR:CZ	2.54	0.42
1:u2:49:ARG:NH2	1:u2:53:GLN:OE1	2.49	0.42
4:z2:10:CYS:HA	4:z2:26:THR:O	2.19	0.42
4:z2:57:PHE:HB3	4:z2:58:THR:H	1.71	0.42
4:w2:10:CYS:HA	4:w2:26:THR:O	2.20	0.42
4:x2:21:ARG:HB3	4:x2:22:GLU:H	1.61	0.42
2:B3:76:ARG:HD2	4:z3:14:LEU:C	2.45	0.42
2:B3:104:LEU:O	2:B3:108:VAL:HB	2.19	0.42
1:C3:11:ALA:HA	1:C3:16:ARG:HH11	1.84	0.42
1:C3:89:LEU:O	1:C3:93:THR:HG23	2.20	0.42
1:K3:135:ASN:HA	1:K3:138:THR:HG22	2.02	0.42
2:L3:148:GLU:HA	2:L3:151:ILE:CD1	2.46	0.42
1:W3:87:TYR:HB3	6:W3:201:CYC:HBB3	2.01	0.42
1:W3:106:GLU:HA	1:W3:110:ILE:HD11	2.01	0.42
1:e3:15:ALA:HA	2:h3:90:ARG:NH1	2.34	0.42
2:f3:40:ALA:HB2	2:f3:145:ALA:CB	2.49	0.42
5:j3:85:SER:HB2	5:j3:157:ILE:HG12	2.02	0.42
5:j3:288:LEU:HD23	5:j3:293:LYS:HD2	2.01	0.42
5:j3:423:LEU:HD12	5:j3:423:LEU:HA	1.76	0.42
2:h3:148:GLU:HA	2:h3:151:ILE:CG1	2.49	0.42
1:A1:54:ALA:CB	1:A1:133:MET:HG3	2.50	0.42
2:F1:56:ALA:O	2:F1:61:ILE:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G1:33:THR:HG23	2:G1:37:ARG:HE	1.85	0.42
1:H1:24:ASP:HA	1:H1:27:LYS:HG2	2.02	0.42
2:J1:119:LEU:HD22	6:J1:201:CYC:HBD1	2.02	0.42
3:K1:135:LYS:HG3	3:K1:136:GLU:N	2.34	0.42
6:z1:101:CYC:HMA3	6:z1:101:CYC:HB	1.85	0.42
2:B2:66:THR:HG21	6:C2:201:CYC:O2A	2.19	0.42
2:D2:24:LEU:HD23	2:D2:24:LEU:HA	1.82	0.42
1:G2:76:LYS:H	1:G2:76:LYS:CD	2.32	0.42
1:M2:76:LYS:HG3	1:M2:77:MET:HE2	2.00	0.42
2:N2:79:ALA:HB2	1:O2:114:GLU:OE1	2.20	0.42
2:R2:40:ALA:HB2	2:R2:145:ALA:HB3	2.01	0.42
1:W2:126:VAL:HG12	1:W2:160:MET:CE	2.50	0.42
2:X2:36:VAL:HG12	2:X2:145:ALA:HB2	2.00	0.42
2:X2:72:MET:CE	2:X2:78:TYR:HA	2.46	0.42
2:d2:119:LEU:HD21	4:x2:5:PHE:HZ	1.84	0.42
1:i2:102:THR:HG23	1:i2:103:PRO:CD	2.49	0.42
1:k2:8:ILE:HG22	2:l2:1:MET:HE1	2.02	0.42
1:u2:59:PHE:HB3	1:A3:53:GLN:NE2	2.34	0.42
2:v2:131:GLN:O	2:v2:135:GLU:HG2	2.19	0.42
4:w2:24:GLN:HG2	5:j3:756:SER:HA	2.00	0.42
1:E3:3:VAL:HG13	1:E3:25:ARG:HD3	2.02	0.42
1:I3:97:VAL:HG21	2:J3:19:LEU:CD1	2.46	0.42
2:J3:1:MET:HB3	2:J3:106:GLU:OE2	2.19	0.42
2:J3:36:VAL:CG1	2:J3:145:ALA:HB2	2.50	0.42
2:J3:65:LEU:O	2:J3:72:MET:HB3	2.19	0.42
2:N3:24:LEU:HA	2:N3:24:LEU:HD23	1.83	0.42
1:Q3:106:GLU:HA	1:Q3:110:ILE:CD1	2.50	0.42
4:z3:5:PHE:N	4:z3:32:VAL:O	2.53	0.42
5:j3:911:LEU:O	5:j3:913:VAL:N	2.52	0.42
5:j3:1024:LYS:NZ	5:j3:1038:ARG:HH12	2.18	0.42
5:k3:82:MET:HE3	5:k3:82:MET:HB3	1.96	0.42
2:h3:134:LYS:CD	2:h3:150:SER:HA	2.49	0.42
2:D1:36:VAL:HG23	2:D1:144:ASP:OD2	2.20	0.42
2:F1:28:LYS:O	2:F1:32:THR:HG22	2.19	0.42
1:H1:52:LYS:HD2	1:H1:56:ASP:OD2	2.20	0.42
2:J1:130:ILE:O	2:J1:133:MET:HB2	2.20	0.42
3:L1:117:ARG:HG3	5:j3:239:SER:CA	2.33	0.42
1:A2:87:TYR:HB3	6:A2:201:CYC:HBB3	2.02	0.42
2:B2:95:ALA:HB2	2:B2:104:LEU:HG	2.02	0.42
6:E2:201:CYC:HMA1	6:E2:201:CYC:NB	2.25	0.42
2:J2:24:LEU:O	2:J2:28:LYS:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J2:85:MET:HE3	2:J2:85:MET:HB3	1.80	0.42
2:N2:91:TYR:C	2:N2:104:LEU:HD21	2.45	0.42
2:P2:71:MEN:HB2	6:P2:201:CYC:OC	2.20	0.42
2:P2:99:GLY:HA2	2:P2:152:TYR:OH	2.20	0.42
2:T2:37:ARG:HG2	2:T2:148:GLU:OE1	2.19	0.42
2:T2:89:LEU:HB2	2:T2:133:MET:CE	2.42	0.42
1:Y2:14:GLU:OE2	5:k3:1043:GLU:HG2	2.19	0.42
2:Z2:73:TYR:CD2	2:Z2:74:THR:HG23	2.54	0.42
2:h2:72:MET:HE2	2:h2:72:MET:HB2	1.86	0.42
2:h2:96:MET:HE3	2:h2:96:MET:HB3	1.85	0.42
1:i2:39:ILE:HD11	1:i2:145:ASP:HA	2.01	0.42
1:i2:85:LEU:O	1:i2:133:MET:HE1	2.20	0.42
2:j2:57:ALA:HA	2:j2:61:ILE:CD1	2.48	0.42
1:o2:5:THR:HG23	2:p2:1:MET:CE	2.49	0.42
1:o2:18:LEU:HD23	2:p2:97:LEU:HD12	2.02	0.42
1:q2:133:MET:HA	1:q2:136:VAL:CG2	2.50	0.42
2:r2:137:VAL:O	2:r2:141:VAL:HG13	2.20	0.42
1:u2:131:ARG:HG3	1:u2:157:VAL:HG21	2.02	0.42
2:B3:130:ILE:HA	2:B3:133:MET:HE3	2.01	0.42
2:B3:160:LEU:HD23	2:B3:160:LEU:HA	1.91	0.42
2:D3:106:GLU:OE1	2:D3:107:ARG:HG3	2.20	0.42
1:E3:107:ILE:HD11	4:z3:65:THR:HG22	2.01	0.42
2:F3:91:TYR:O	2:F3:104:LEU:HD21	2.20	0.42
1:G3:92:VAL:HA	1:G3:104:ILE:HD11	2.00	0.42
2:H3:73:TYR:O	2:H3:74:THR:OG1	2.30	0.42
1:O3:62:ARG:O	1:O3:65:VAL:HG22	2.20	0.42
2:T3:67:ARG:O	2:T3:73:TYR:HB2	2.20	0.42
2:Z3:12:TYR:CZ	2:Z3:23:ALA:HB2	2.55	0.42
2:b3:24:LEU:HB3	5:k3:54:ILE:HG23	2.02	0.42
2:b3:79:ALA:O	2:b3:82:ILE:HG12	2.20	0.42
1:c3:35:ARG:NH2	1:c3:148:GLU:OE1	2.52	0.42
2:d3:12:TYR:CZ	2:d3:23:ALA:HB2	2.55	0.42
2:d3:57:ALA:HA	2:d3:61:ILE:HD11	2.02	0.42
2:f3:18:TYR:CD2	5:j3:61:THR:HG22	2.54	0.42
2:g3:75:THR:CG2	5:k3:182:ASN:HA	2.50	0.42
2:g3:81:CYS:O	2:g3:82:ILE:HB	2.19	0.42
4:i3:8:THR:HG23	4:i3:29:THR:OG1	2.20	0.42
5:j3:158:ARG:NH2	5:j3:159:ASP:OD1	2.42	0.42
5:j3:187:ARG:NH1	5:j3:196:ILE:HG21	2.28	0.42
5:j3:207:ARG:HB2	5:j3:227:ILE:HG21	2.01	0.42
5:k3:637:ARG:NH2	5:k3:669:GLU:OE1	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k3:854:LEU:HD22	5:k3:862:LEU:CD2	2.49	0.42
5:k3:1016:LEU:HD21	5:k3:1048:ARG:NH2	2.35	0.42
5:k3:1125:ARG:HB3	5:k3:1125:ARG:NH1	2.34	0.42
1:A1:141:LEU:HD23	1:A1:141:LEU:HA	1.75	0.42
2:D1:44:ILE:HD13	2:D1:137:VAL:HG22	2.02	0.42
2:D1:96:MET:HE3	2:D1:96:MET:HB3	1.94	0.42
2:G1:47:ASN:HB2	2:G1:140:LEU:HD23	2.00	0.42
2:G1:89:LEU:HD12	2:G1:153:PHE:HZ	1.85	0.42
1:H1:35:ARG:O	1:H1:39:ILE:HD13	2.19	0.42
2:I1:113:LYS:H	2:I1:113:LYS:HD2	1.85	0.42
3:K1:126:MET:SD	6:K1:201:CYC:H3C	2.59	0.42
3:L1:105:GLU:HA	3:L1:109:LEU:CB	2.38	0.42
4:z1:11:ILE:CG1	4:z1:44:ILE:HG23	2.45	0.42
2:H2:121:VAL:HG13	2:H2:122:PRO:HD2	2.02	0.42
2:J2:106:GLU:HG3	5:j3:919:ILE:HG12	2.01	0.42
1:M2:49:ARG:O	1:M2:53:GLN:HG3	2.20	0.42
2:N2:81:CYS:HA	6:N2:201:CYC:HAC1	1.78	0.42
2:V2:137:VAL:O	2:V2:141:VAL:HG12	2.20	0.42
1:W2:122:PRO:HG2	1:W2:125:ALA:HB3	2.01	0.42
2:X2:122:PRO:HG2	2:X2:125:ALA:HB3	2.01	0.42
1:a2:37:LEU:HD13	2:b2:24:LEU:CD2	2.50	0.42
2:t2:51:ILE:CG2	2:t2:133:MET:HG3	2.49	0.42
1:u2:50:ILE:HG23	1:u2:136:VAL:HB	2.01	0.42
4:x2:21:ARG:HA	4:x2:21:ARG:HD2	1.81	0.42
2:B3:1:MET:HB2	2:B3:2:GLN:H	1.60	0.42
1:C3:102:THR:HA	1:C3:105:GLU:CD	2.45	0.42
2:F3:28:LYS:O	2:F3:32:THR:HG22	2.20	0.42
2:F3:67:ARG:HG2	2:F3:68:PRO:HD2	2.02	0.42
2:H3:57:ALA:HA	2:H3:61:ILE:HG12	2.01	0.42
1:K3:52:LYS:O	1:K3:52:LYS:HD3	2.20	0.42
2:L3:10:ASN:HB2	4:i3:65:THR:OG1	2.20	0.42
2:T3:85:MET:HE3	2:T3:133:MET:SD	2.59	0.42
2:V3:64:ASP:OD1	2:V3:67:ARG:NH1	2.52	0.42
1:W3:22:GLU:O	1:W3:25:ARG:HG2	2.19	0.42
2:Z3:57:ALA:HA	2:Z3:61:ILE:HD11	2.02	0.42
1:a3:62:ARG:O	1:a3:65:VAL:HG22	2.20	0.42
1:a3:132:ALA:O	1:a3:136:VAL:HG23	2.19	0.42
2:b3:51:ILE:HA	2:b3:136:VAL:HG11	2.01	0.42
2:f3:74:THR:OG1	2:f3:77:ARG:HD3	2.19	0.42
5:j3:198:ALA:O	5:j3:201:VAL:HG22	2.20	0.42
5:j3:1069:ARG:HD3	5:j3:1115:ARG:NH2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:j3:1201:CYC:HMA1	6:j3:1201:CYC:NB	2.35	0.42
5:k3:357:LEU:HD21	5:k3:382:ILE:HD12	2.02	0.42
5:k3:935:LEU:HD23	5:k3:935:LEU:HA	1.79	0.42
2:h3:83:ARG:O	2:h3:85:MET:N	2.52	0.42
1:A1:14:GLU:HB3	1:A1:16:ARG:HG2	2.01	0.42
2:B1:89:LEU:HD13	2:B1:133:MET:CE	2.50	0.42
1:C1:10:ASN:O	1:C1:14:GLU:HG2	2.20	0.42
2:D1:61:ILE:HD11	6:K1:201:CYC:CAA	2.49	0.42
2:G1:57:ALA:HA	2:G1:61:ILE:CG1	2.50	0.42
1:H1:57:GLN:O	1:H1:60:GLN:HG2	2.20	0.42
2:I1:28:LYS:HE2	2:I1:28:LYS:HA	2.01	0.42
2:I1:59:ALA:CB	2:I1:60:LEU:HD22	2.46	0.42
3:K1:3:VAL:HG12	3:K1:26:ILE:CD1	2.50	0.42
3:K1:52:LYS:O	3:K1:55:SER:OG	2.36	0.42
6:A2:201:CYC:HMA3	6:A2:201:CYC:NB	2.32	0.42
6:G2:201:CYC:HMA3	6:G2:201:CYC:NB	2.34	0.42
1:M2:47:ARG:HG2	1:M2:48:GLU:CD	2.45	0.42
1:O2:23:LEU:HB3	1:O2:27:LYS:HZ1	1.84	0.42
2:R2:36:VAL:HG12	2:R2:145:ALA:HB2	2.02	0.42
1:S2:59:PHE:HZ	1:S2:78:THR:HG23	1.85	0.42
1:a2:130:VAL:HA	1:a2:133:MET:CG	2.50	0.42
2:b2:61:ILE:HG13	2:b2:62:TYR:CE2	2.54	0.42
1:c2:3:VAL:HG13	1:m2:25:ARG:NH2	2.33	0.42
1:c2:71:ASN:HD22	1:c2:71:ASN:HA	1.52	0.42
1:e2:57:GLN:HB2	1:e2:132:ALA:HB1	2.01	0.42
2:f2:36:VAL:HA	2:f2:39:ARG:CG	2.50	0.42
1:i2:20:PRO:HD2	1:s2:101:VAL:CB	2.48	0.42
2:l2:121:VAL:HG13	2:l2:122:PRO:HD2	2.02	0.42
1:o2:76:LYS:HD2	1:o2:77:MET:HE2	2.01	0.42
1:o2:96:ILE:HD11	1:o2:149:ALA:HA	2.02	0.42
1:o2:156:LEU:HA	1:o2:156:LEU:HD23	1.77	0.42
1:s2:91:LEU:HB3	1:s2:104:ILE:HG23	2.02	0.42
4:w2:24:GLN:CG	5:j3:756:SER:HA	2.50	0.42
1:A3:67:SER:O	1:A3:73:TYR:HB2	2.20	0.42
1:E3:85:LEU:HD22	1:E3:133:MET:SD	2.60	0.42
1:I3:90:ARG:HD2	2:J3:17:LYS:O	2.19	0.42
1:K3:17:TYR:CD1	2:L3:90:ARG:HD3	2.55	0.42
2:L3:28:LYS:O	2:L3:32:THR:HG22	2.20	0.42
1:M3:16:ARG:NE	1:M3:17:TYR:O	2.46	0.42
2:V3:39:ARG:O	2:V3:43:VAL:HG23	2.20	0.42
2:b3:77:ARG:HG3	6:b3:201:CYC:HMD1	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:21:MET:HE1	5:j3:43:LEU:HD13	2.00	0.42
5:j3:57:VAL:HG21	5:j3:172:LEU:HD11	2.01	0.42
5:j3:84:TYR:CE2	5:j3:150:PRO:HA	2.55	0.42
5:j3:208:LYS:O	5:j3:211:ALA:HB3	2.20	0.42
5:j3:619:GLU:HB3	5:j3:620:PRO:HD3	2.02	0.42
5:k3:207:ARG:HG3	5:k3:224:SER:HA	2.02	0.42
1:A1:11:ALA:HB3	1:A1:18:LEU:HD23	2.01	0.41
1:A1:155:TYR:HB2	1:Y3:20:PRO:CG	2.50	0.41
2:B1:29:ALA:O	2:B1:33:THR:HG23	2.20	0.41
2:G1:85:MET:HB3	2:G1:133:MET:HE3	2.02	0.41
2:I1:5:ILE:HG12	2:I1:27:LEU:CD2	2.49	0.41
4:z1:3:ARG:NH1	4:z1:67:VAL:HA	2.35	0.41
1:C2:156:LEU:HD23	1:C2:156:LEU:HA	1.81	0.41
1:E2:27:LYS:O	1:E2:30:VAL:HG22	2.19	0.41
1:G2:114:GLU:HB3	2:L2:82:ILE:HD11	2.02	0.41
2:H2:57:ALA:HA	2:H2:61:ILE:HD11	2.02	0.41
2:N2:58:LYS:NZ	2:N2:135:GLU:OE2	2.38	0.41
1:W2:92:VAL:HA	1:W2:104:ILE:HD11	2.02	0.41
1:c2:77:MET:HE2	1:c2:77:MET:HA	2.02	0.41
1:c2:106:GLU:CD	1:c2:107:ILE:HG13	2.45	0.41
2:d2:41:ALA:HB2	2:d2:96:MET:HE1	2.02	0.41
1:e2:122:PRO:O	1:e2:126:VAL:HG23	2.19	0.41
1:i2:50:ILE:CG2	1:i2:133:MET:HG3	2.50	0.41
1:k2:106:GLU:CB	5:k3:1143:LEU:HD22	2.44	0.41
2:r2:10:ASN:O	2:r2:14:VAL:HG13	2.20	0.41
2:r2:154:ASP:HA	2:r2:157:SER:OG	2.20	0.41
1:s2:98:ALA:HB2	2:t2:9:ILE:HD13	2.01	0.41
4:w2:10:CYS:HB3	4:w2:52:LEU:HD21	2.02	0.41
4:w2:16:ARG:O	4:w2:16:ARG:HG2	2.20	0.41
4:x2:22:GLU:OE2	5:k3:983:ARG:NH1	2.49	0.41
2:B3:111:GLY:HA2	2:B3:114:GLU:CD	2.44	0.41
2:F3:112:LEU:HD23	2:F3:160:LEU:HD21	2.03	0.41
2:J3:133:MET:HE2	2:J3:153:PHE:HE1	1.84	0.41
2:L3:67:ARG:O	2:L3:73:TYR:HB2	2.19	0.41
1:M3:26:ILE:O	1:M3:30:VAL:HG13	2.20	0.41
1:M3:132:ALA:O	1:M3:136:VAL:HG23	2.20	0.41
1:O3:126:VAL:HG12	1:O3:160:MET:HE1	2.02	0.41
1:Q3:58:LEU:HD22	1:Q3:129:GLY:HA3	2.01	0.41
1:S3:105:GLU:O	1:S3:110:ILE:HD12	2.19	0.41
1:U3:156:LEU:HD23	1:U3:156:LEU:HA	1.92	0.41
2:Z3:47:ASN:O	2:Z3:51:ILE:HD12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:z3:22:GLU:O	4:z3:26:THR:HG23	2.20	0.41
4:i3:31:LEU:HD21	4:i3:57:PHE:CD2	2.55	0.41
5:j3:242:PRO:HG2	5:j3:260:TYR:CD2	2.55	0.41
5:j3:609:ARG:HD2	5:j3:662:ASP:OD1	2.20	0.41
5:k3:170:ALA:CB	5:k3:179:LEU:HD23	2.50	0.41
5:k3:788:PHE:O	5:k3:792:GLU:HG3	2.20	0.41
6:h3:201:CYC:HBC2	6:h3:201:CYC:H2C	1.88	0.41
2:B1:49:THR:HB	1:Y3:161:GLN:CD	2.45	0.41
2:B1:79:ALA:HA	2:B1:82:ILE:CG2	2.50	0.41
2:D1:122:PRO:HG2	2:D1:125:ALA:HB3	2.01	0.41
2:F1:130:ILE:HD13	2:F1:133:MET:HE1	2.03	0.41
1:A2:4:LEU:CD2	1:A2:26:ILE:HD13	2.44	0.41
2:B2:73:TYR:O	2:B2:77:ARG:HB2	2.20	0.41
2:D2:113:LYS:HE2	2:D2:113:LYS:HB2	1.93	0.41
1:E2:4:LEU:CD2	1:E2:26:ILE:HD13	2.44	0.41
1:Q2:72:ALA:HA	1:Q2:77:MET:HG2	2.02	0.41
1:Q2:82:LEU:HD12	1:Q2:83:ARG:N	2.35	0.41
1:S2:88:TYR:OH	1:S2:112:VAL:HG21	2.20	0.41
1:U2:109:ILE:HD11	1:U2:156:LEU:CD2	2.50	0.41
2:V2:65:LEU:C	2:V2:72:MET:HB2	2.45	0.41
2:V2:144:ASP:OD1	2:V2:145:ALA:N	2.53	0.41
1:W2:7:ALA:HB1	1:W2:22:GLU:OE1	2.19	0.41
2:Z2:113:LYS:HB2	2:Z2:113:LYS:HE2	1.79	0.41
2:b2:39:ARG:HG2	2:b2:39:ARG:HH11	1.85	0.41
2:b2:113:LYS:HE2	2:b2:113:LYS:HB2	1.83	0.41
2:d2:102:SER:O	2:d2:106:GLU:HG2	2.20	0.41
1:i2:28:SER:HB3	1:s2:28:SER:HB2	2.02	0.41
2:j2:67:ARG:O	2:j2:73:TYR:HB2	2.20	0.41
1:k2:97:VAL:HG11	2:l2:19:LEU:CD1	2.49	0.41
2:p2:137:VAL:O	2:p2:141:VAL:HG13	2.20	0.41
2:r2:121:VAL:HG13	2:r2:122:PRO:HD2	2.01	0.41
1:s2:7:ALA:HB2	1:s2:25:ARG:HH11	1.84	0.41
1:u2:27:LYS:HE2	2:v2:38:VAL:HG11	2.01	0.41
4:z2:17:VAL:O	4:z2:18:ARG:HB2	2.20	0.41
1:A3:50:ILE:HG12	1:A3:136:VAL:HG12	2.01	0.41
1:E3:27:LYS:O	1:E3:30:VAL:HG22	2.19	0.41
2:F3:47:ASN:O	2:F3:51:ILE:HD12	2.21	0.41
1:I3:52:LYS:HZ1	1:I3:53:GLN:CA	2.32	0.41
2:L3:37:ARG:HA	2:L3:96:MET:HE3	2.02	0.41
2:P3:127:VAL:O	2:P3:131:GLN:HG2	2.19	0.41
1:Q3:61:ILE:CG2	1:Q3:62:ARG:HG2	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R3:17:LYS:HB2	2:R3:17:LYS:NZ	2.34	0.41
1:Y3:56:ASP:O	1:Y3:60:GLN:HG2	2.20	0.41
2:Z3:96:MET:HE1	2:Z3:149:ALA:HB2	2.01	0.41
2:d3:127:VAL:O	2:d3:131:GLN:HG2	2.20	0.41
2:f3:79:ALA:O	2:f3:82:ILE:HG12	2.21	0.41
2:g3:72:MET:HG3	2:g3:78:TYR:HA	2.01	0.41
2:g3:85:MET:HA	2:g3:87:TYR:O	2.20	0.41
4:i3:43:ARG:HD3	5:j3:671:GLN:OE1	2.20	0.41
5:j3:458:LEU:HD11	5:j3:462:TYR:CZ	2.55	0.41
5:j3:802:VAL:HB	5:j3:879:ASP:HA	2.02	0.41
5:k3:74:ARG:CZ	5:k3:205:GLU:HG3	2.50	0.41
5:k3:300:ALA:HA	5:k3:420:VAL:HG11	2.01	0.41
5:k3:989:THR:HB	5:k3:992:GLU:OE1	2.20	0.41
6:A1:201:CYC:HC	6:A1:201:CYC:HMD3	1.85	0.41
1:E1:3:VAL:HG13	1:E1:25:ARG:HD3	2.01	0.41
2:G1:137:VAL:HG11	2:G1:153:PHE:CE2	2.55	0.41
1:H1:90:ARG:O	1:H1:93:THR:HG22	2.20	0.41
2:I1:132:ALA:HA	2:I1:135:GLU:OE1	2.21	0.41
3:K1:157:ILE:O	3:K1:161:GLN:NE2	2.53	0.41
4:M1:16:ARG:CZ	4:M1:18:ARG:HG2	2.51	0.41
2:F2:32:THR:HG23	2:F2:33:THR:HG23	2.02	0.41
2:H2:133:MET:HE3	2:H2:133:MET:HB3	1.83	0.41
1:I2:89:LEU:HB2	1:I2:133:MET:SD	2.60	0.41
2:J2:158:SER:OG	5:k3:737:MET:HG2	2.20	0.41
1:M2:27:LYS:O	1:M2:30:VAL:HG22	2.20	0.41
1:S2:56:ASP:OD1	1:S2:56:ASP:N	2.47	0.41
1:U2:16:ARG:O	2:V2:94:TYR:OH	2.36	0.41
1:W2:49:ARG:HH21	1:W2:140:LEU:HD21	1.86	0.41
1:W2:68:PRO:HA	1:W2:73:TYR:CE2	2.55	0.41
1:W2:94:TYR:OH	2:X2:17:LYS:O	2.33	0.41
1:a2:21:GLY:HA3	1:o2:100:ASP:CG	2.46	0.41
1:c2:60:GLN:HE21	1:U3:74:GLY:HA3	1.84	0.41
1:g2:77:MET:HE3	1:g2:80:LEU:HD12	2.01	0.41
1:m2:57:GLN:HA	1:m2:60:GLN:OE1	2.21	0.41
1:m2:123:ILE:HB	1:m2:124:PRO:HD3	2.02	0.41
1:s2:42:THR:HA	1:s2:45:GLU:OE2	2.19	0.41
1:s2:43:LEU:CD1	1:s2:141:LEU:HD11	2.50	0.41
4:y2:63:ALA:CA	4:y2:67:VAL:HG21	2.50	0.41
2:F3:20:ASP:O	2:F3:24:LEU:HG	2.20	0.41
1:G3:130:VAL:HG12	1:G3:157:VAL:HG23	2.02	0.41
1:I3:110:ILE:HD12	1:I3:110:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L3:91:TYR:O	2:L3:104:LEU:HD21	2.19	0.41
1:Q3:6:LYS:HE3	1:Q3:100:ASP:OD2	2.20	0.41
1:U3:102:THR:HB	1:U3:103:PRO:HD3	2.02	0.41
1:W3:105:GLU:HA	1:W3:109:ILE:CD1	2.49	0.41
6:a3:201:CYC:HMA3	6:a3:201:CYC:NB	2.33	0.41
1:e3:50:ILE:HA	1:e3:136:VAL:HG11	2.02	0.41
2:g3:83:ARG:O	2:g3:85:MET:N	2.53	0.41
4:i3:55:LYS:NZ	4:i3:55:LYS:HB3	2.35	0.41
5:j3:372:ARG:O	5:j3:376:GLN:HG3	2.20	0.41
5:j3:754:LYS:HE3	5:j3:880:THR:OG1	2.20	0.41
5:k3:258:LEU:HD12	5:k3:259:PRO:CD	2.50	0.41
5:k3:423:LEU:HD12	5:k3:423:LEU:HA	1.78	0.41
5:k3:1030:ILE:HG13	5:k3:1034:GLU:CB	2.50	0.41
5:k3:1047:LYS:HG3	5:k3:1048:ARG:HG3	2.02	0.41
1:A1:25:ARG:HH22	1:Y3:25:ARG:HH21	1.67	0.41
2:B1:104:LEU:O	2:B1:109:LEU:N	2.53	0.41
1:E1:17:TYR:HD2	2:G1:45:SER:HB3	1.84	0.41
1:E1:38:ARG:O	1:E1:41:GLN:HG3	2.20	0.41
1:E1:50:ILE:HA	1:E1:136:VAL:CG1	2.43	0.41
1:A2:34:GLU:CB	2:B2:28:LYS:HZ1	2.33	0.41
1:I2:40:ALA:CB	1:I2:97:VAL:HG13	2.51	0.41
2:J2:74:THR:HG22	1:K2:107:ILE:HG23	2.01	0.41
2:L2:81:CYS:HA	6:L2:201:CYC:HAC1	1.79	0.41
2:N2:73:TYR:O	2:N2:74:THR:OG1	2.29	0.41
2:N2:76:ARG:HB2	1:O2:110:ILE:CD1	2.46	0.41
1:U2:111:GLY:HA2	1:U2:114:GLU:OE1	2.21	0.41
2:V2:85:MET:HG3	2:V2:133:MET:HE1	2.01	0.41
1:Y2:49:ARG:NH1	1:Y2:52:LYS:HB3	2.36	0.41
1:Y2:104:ILE:O	1:Y2:109:ILE:HD12	2.20	0.41
1:a2:91:LEU:CD2	1:a2:107:ILE:HG21	2.51	0.41
1:c2:47:ARG:HD2	1:c2:48:GLU:N	2.35	0.41
2:d2:104:LEU:O	2:d2:108:VAL:HB	2.19	0.41
2:f2:67:ARG:O	2:f2:73:TYR:HB2	2.20	0.41
1:k2:116:TYR:CD1	1:k2:121:THR:HB	2.56	0.41
2:l2:105:ASP:OD2	2:l2:155:TYR:OH	2.15	0.41
1:q2:109:ILE:O	1:q2:112:VAL:HG12	2.20	0.41
2:v2:104:LEU:H	2:v2:104:LEU:HG	1.69	0.41
1:I3:85:LEU:HB3	1:I3:133:MET:HE2	2.02	0.41
2:J3:154:ASP:HA	2:J3:157:SER:OG	2.20	0.41
1:K3:18:LEU:HD22	2:L3:97:LEU:HD13	2.02	0.41
1:K3:36:ARG:HH21	1:K3:99:GLY:HA2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R3:67:ARG:HG3	2:R3:68:PRO:CD	2.46	0.41
1:Y3:142:SER:O	1:Y3:146:ALA:N	2.41	0.41
2:Z3:71:MEN:O	2:Z3:77:ARG:HD3	2.20	0.41
2:b3:9:ILE:HD11	5:k3:169:TYR:CG	2.56	0.41
2:b3:31:PHE:CD2	5:k3:50:GLY:HA2	2.55	0.41
2:b3:71:MEN:O	2:b3:77:ARG:HG2	2.19	0.41
1:c3:68:PRO:HA	1:c3:73:TYR:CE2	2.55	0.41
1:c3:113:LYS:HD3	1:c3:123:ILE:HD13	2.02	0.41
1:e3:145:ASP:OD1	1:e3:145:ASP:N	2.53	0.41
2:g3:116:TYR:CD1	2:g3:121:VAL:HG11	2.56	0.41
5:j3:261:ILE:HD11	2:h3:79:ALA:HB3	2.01	0.41
5:j3:1010:GLY:C	5:j3:1011:ILE:HG13	2.46	0.41
5:k3:67:ILE:HD12	5:k3:209:ASN:HB3	2.03	0.41
5:k3:216:ASP:OD1	5:k3:221:LYS:HG3	2.20	0.41
5:k3:724:GLU:HA	5:k3:727:THR:CG2	2.49	0.41
1:A1:62:ARG:HE	1:A1:62:ARG:HB3	1.68	0.41
2:B1:72:MET:SD	6:k3:1201:CYC:H2C	2.60	0.41
2:G1:95:ALA:CB	2:G1:104:LEU:HG	2.50	0.41
3:K1:91:LEU:HD13	3:K1:91:LEU:HA	1.90	0.41
3:K1:114:GLU:OE1	3:K1:114:GLU:N	2.52	0.41
1:A2:114:GLU:HB3	2:F2:82:ILE:HD11	2.03	0.41
1:A2:122:PRO:O	1:A2:126:VAL:HG23	2.20	0.41
2:B2:127:VAL:HG21	2:B2:161:SER:OG	2.20	0.41
2:D2:116:TYR:HD2	2:D2:123:ILE:HD13	1.84	0.41
2:D2:148:GLU:HG3	5:k3:930:LEU:HD12	2.03	0.41
1:I2:9:VAL:HG22	2:J2:107:ARG:HH22	1.85	0.41
1:I2:37:LEU:HD22	2:J2:24:LEU:HD22	2.03	0.41
1:I2:49:ARG:CZ	1:I2:140:LEU:HD21	2.51	0.41
1:M2:37:LEU:CD1	2:N2:28:LYS:HD3	2.45	0.41
1:O2:6:LYS:CA	1:O2:9:VAL:HG12	2.48	0.41
2:X2:109:LEU:HD11	2:X2:159:GLY:O	2.21	0.41
1:c2:43:LEU:CD1	1:c2:137:ALA:HB1	2.49	0.41
1:c2:87:TYR:O	1:c2:91:LEU:HD13	2.20	0.41
2:d2:85:MET:HE3	2:d2:133:MET:HE2	2.02	0.41
2:h2:57:ALA:HA	2:h2:61:ILE:HG12	2.02	0.41
2:h2:67:ARG:O	2:h2:73:TYR:HB2	2.21	0.41
2:l2:154:ASP:HA	2:l2:157:SER:OG	2.20	0.41
1:m2:97:VAL:HG11	2:n2:19:LEU:CD1	2.50	0.41
1:o2:52:LYS:HD2	1:o2:52:LYS:HA	1.72	0.41
2:p2:108:VAL:O	2:p2:112:LEU:HD22	2.20	0.41
2:t2:50:THR:O	2:t2:54:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:z2:24:GLN:HG2	5:k3:756:SER:HA	2.02	0.41
2:B3:111:GLY:O	2:B3:114:GLU:HG2	2.19	0.41
1:C3:20:PRO:HA	1:Q3:151:PHE:HZ	1.85	0.41
2:D3:110:ASN:HD21	4:z3:45:GLN:CG	2.34	0.41
1:E3:156:LEU:HD23	1:E3:156:LEU:HA	1.91	0.41
1:G3:4:LEU:HD12	1:G3:4:LEU:HA	1.81	0.41
1:K3:126:VAL:O	1:K3:130:VAL:HG23	2.21	0.41
1:M3:86:ASP:OD1	2:N3:18:TYR:OH	2.29	0.41
1:M3:92:VAL:HA	1:M3:104:ILE:HD11	2.02	0.41
2:P3:3:ASP:N	2:P3:6:THR:OG1	2.53	0.41
1:Q3:94:TYR:O	1:Q3:97:VAL:HG22	2.21	0.41
2:T3:1:MET:HB2	2:T3:1:MET:HE3	1.83	0.41
1:W3:43:LEU:CD1	1:W3:141:LEU:HD11	2.49	0.41
1:W3:49:ARG:NH1	1:W3:53:GLN:HB2	2.35	0.41
1:a3:35:ARG:NH2	1:a3:148:GLU:OE1	2.53	0.41
2:b3:3:ASP:HA	2:b3:100:ASP:HB2	2.03	0.41
6:z3:101:CYC:HC	6:z3:101:CYC:HMD3	1.85	0.41
5:j3:15:ARG:HD3	5:j3:16:LEU:N	2.36	0.41
5:j3:718:MET:O	5:j3:722:ILE:HG13	2.20	0.41
5:j3:780:ILE:HG22	5:j3:783:TYR:CE2	2.55	0.41
5:j3:935:LEU:HD23	5:j3:935:LEU:HA	1.81	0.41
5:j3:1007:VAL:O	5:j3:1010:GLY:N	2.34	0.41
5:k3:927:SER:C	5:k3:928:MET:HE2	2.45	0.41
5:k3:1022:GLU:O	5:k3:1026:LYS:HG3	2.21	0.41
2:h3:130:ILE:HD13	2:h3:130:ILE:HA	1.79	0.41
1:C1:24:ASP:HB3	5:k3:45:GLN:NE2	2.35	0.41
1:C1:121:THR:HG22	1:C1:122:PRO:HD2	2.03	0.41
1:E1:67:SER:HB3	1:E1:68:PRO:HD2	2.02	0.41
1:E1:156:LEU:HD23	1:E1:156:LEU:HA	1.89	0.41
1:H1:50:ILE:HG23	1:H1:136:VAL:HB	2.02	0.41
3:K1:5:LEU:HA	3:K1:5:LEU:HD12	1.79	0.41
3:K1:89:TYR:O	3:K1:92:ILE:HG22	2.20	0.41
3:K1:117:ARG:CD	5:k3:239:SER:HA	2.50	0.41
4:z1:10:CYS:HB2	4:z1:26:THR:O	2.21	0.41
4:M1:13:SER:CB	4:M1:18:ARG:HE	2.33	0.41
1:C2:123:ILE:HB	1:C2:124:PRO:HD3	2.01	0.41
1:I2:59:PHE:CZ	1:I2:78:THR:HG23	2.56	0.41
1:K2:126:VAL:HG12	1:K2:160:MET:CE	2.50	0.41
1:O2:47:ARG:HD3	2:P2:18:TYR:CE1	2.55	0.41
1:O2:104:ILE:HG13	1:O2:105:GLU:N	2.35	0.41
2:P2:73:TYR:O	2:P2:77:ARG:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q2:26:ILE:HD11	2:R2:38:VAL:CG2	2.45	0.41
2:R2:156:LEU:HD23	2:R2:156:LEU:HA	1.94	0.41
2:V2:73:TYR:O	2:V2:74:THR:OG1	2.30	0.41
6:W2:201:CYC:HMA3	6:W2:201:CYC:NB	2.36	0.41
1:Y2:72:ALA:HB2	6:Y2:201:CYC:C1C	2.51	0.41
1:a2:116:TYR:CD1	1:a2:121:THR:HB	2.56	0.41
2:b2:64:ASP:OD1	2:b2:67:ARG:NH1	2.53	0.41
2:d2:77:ARG:NH2	4:x2:62:GLY:O	2.42	0.41
2:d2:130:ILE:HD11	2:d2:160:LEU:HD12	2.02	0.41
2:f2:73:TYR:CD2	2:f2:74:THR:HG23	2.55	0.41
2:h2:47:ASN:OD1	2:h2:47:ASN:N	2.54	0.41
1:m2:94:TYR:HB2	1:m2:104:ILE:HD11	2.02	0.41
2:n2:1:MET:HB3	2:n2:106:GLU:OE2	2.20	0.41
2:n2:133:MET:HE3	2:n2:133:MET:HB3	1.74	0.41
1:o2:90:ARG:O	1:o2:93:THR:OG1	2.30	0.41
2:p2:77:ARG:NH2	5:k3:1144:SER:O	2.53	0.41
1:q2:130:VAL:HA	1:q2:133:MET:CG	2.50	0.41
2:t2:96:MET:HE2	2:t2:96:MET:HB3	1.86	0.41
1:u2:5:THR:CA	2:v2:1:MET:HE1	2.46	0.41
4:w2:37:TRP:CZ2	4:w2:41:GLN:HG3	2.55	0.41
1:I3:101:VAL:HB	1:I3:155:TYR:CE2	2.55	0.41
2:P3:47:ASN:O	2:P3:51:ILE:HD12	2.20	0.41
2:P3:57:ALA:HA	2:P3:61:ILE:HG12	2.02	0.41
1:S3:91:LEU:HD21	1:S3:107:ILE:HG21	2.03	0.41
2:V3:61:ILE:HG13	2:V3:62:TYR:CE2	2.56	0.41
1:W3:109:ILE:O	1:W3:112:VAL:HG12	2.21	0.41
1:Y3:22:GLU:O	1:Y3:26:ILE:HG13	2.20	0.41
1:Y3:76:LYS:CD	1:Y3:76:LYS:H	2.33	0.41
2:Z3:148:GLU:O	2:Z3:151:ILE:HG12	2.21	0.41
2:b3:73:TYR:CD2	2:b3:74:THR:HG23	2.56	0.41
1:c3:82:LEU:HD23	1:c3:85:LEU:HD12	2.02	0.41
2:d3:47:ASN:O	2:d3:51:ILE:HD12	2.21	0.41
5:j3:170:ALA:HB2	5:j3:179:LEU:HD23	2.03	0.41
5:j3:186:LEU:HD12	5:j3:186:LEU:O	2.21	0.41
5:j3:188:GLU:OE1	5:j3:188:GLU:N	2.54	0.41
5:j3:288:LEU:HD23	5:j3:288:LEU:O	2.20	0.41
5:j3:978:LEU:HA	5:j3:978:LEU:HD23	1.74	0.41
5:k3:66:MET:HE1	5:k3:70:ARG:NH1	2.36	0.41
5:k3:489:ASN:ND2	5:k3:492:ILE:HG12	2.35	0.41
6:k3:1203:CYC:HMA1	6:k3:1203:CYC:NB	2.35	0.41
1:C1:52:LYS:HD2	1:C1:56:ASP:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G1:126:THR:HG23	6:j3:1201:CYC:HMC2	2.03	0.41
2:J1:148:GLU:O	2:J1:151:ILE:HG12	2.20	0.41
3:K1:26:ILE:HD13	3:K1:26:ILE:HA	1.63	0.41
4:z1:31:LEU:O	5:k3:328:ILE:HG22	2.20	0.41
1:E2:104:ILE:HG22	1:E2:109:ILE:HD12	2.02	0.41
1:G2:14:GLU:HB3	1:G2:16:ARG:HG2	2.02	0.41
1:G2:39:ILE:HD11	1:G2:145:ASP:HB2	2.03	0.41
6:H2:201:CYC:CMA	5:j3:826:THR:HG21	2.50	0.41
1:K2:36:ARG:HH22	1:K2:99:GLY:HA3	1.86	0.41
1:Q2:122:PRO:HG2	1:Q2:125:ALA:HB3	2.01	0.41
2:V2:133:MET:HE2	2:V2:133:MET:HB2	1.89	0.41
2:X2:68:PRO:HG3	2:X2:73:TYR:CE1	2.55	0.41
1:Y2:109:ILE:HG23	1:Y2:159:ALA:HB1	2.02	0.41
1:a2:59:PHE:HZ	1:a2:78:THR:HG23	1.85	0.41
2:h2:81:CYS:HA	6:h2:201:CYC:HAC1	1.80	0.41
1:k2:134:LYS:HG3	1:k2:153:PHE:CB	2.50	0.41
1:m2:131:ARG:CZ	1:m2:157:VAL:HG11	2.51	0.41
1:m2:156:LEU:HD23	1:m2:156:LEU:HA	1.84	0.41
1:q2:76:LYS:HG3	1:q2:77:MET:CE	2.42	0.41
1:q2:82:LEU:HA	1:q2:85:LEU:HD23	2.03	0.41
1:s2:22:GLU:O	1:s2:26:ILE:HG13	2.20	0.41
1:u2:27:LYS:HA	1:u2:27:LYS:HD3	1.43	0.41
1:E3:49:ARG:O	1:E3:53:GLN:HG3	2.21	0.41
1:G3:19:SER:HB3	1:G3:22:GLU:HG3	2.03	0.41
1:G3:69:GLY:O	1:U3:62:ARG:NH2	2.54	0.41
1:G3:133:MET:HE2	1:G3:133:MET:HB2	1.78	0.41
2:L3:47:ASN:O	2:L3:51:ILE:HD12	2.21	0.41
1:S3:69:GLY:HA2	1:a3:56:ASP:CG	2.46	0.41
2:V3:85:MET:HE1	2:V3:129:GLY:C	2.46	0.41
2:d3:112:LEU:HD23	2:d3:160:LEU:HD21	2.02	0.41
5:j3:214:PHE:CD2	5:j3:219:ASP:HB2	2.55	0.41
5:j3:344:ARG:NH2	5:j3:345:ARG:HB2	2.36	0.41
5:j3:392:SER:HB3	5:j3:394:PRO:HD2	2.03	0.41
5:j3:549:LYS:HE2	5:j3:550:GLY:H	1.85	0.41
5:j3:898:VAL:HA	5:j3:901:TYR:CD2	2.55	0.41
5:k3:165:ARG:HG2	5:k3:169:TYR:CZ	2.55	0.41
2:B1:65:LEU:O	2:B1:72:MET:HB2	2.21	0.41
1:E1:89:LEU:HB2	1:E1:133:MET:CE	2.51	0.41
6:E1:201:CYC:HMA1	6:E1:201:CYC:NB	2.31	0.41
2:G1:58:LYS:O	2:G1:58:LYS:HD3	2.20	0.41
2:G1:72:MET:HG2	6:j3:1201:CYC:OC	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I1:79:ALA:O	2:I1:82:ILE:HG12	2.20	0.41
2:I1:110:ASN:CG	5:j3:278:TYR:HB3	2.46	0.41
3:K1:12:ASP:O	3:K1:15:LEU:HD23	2.20	0.41
1:A2:154:ASP:CG	2:N2:46:SER:HB3	2.46	0.41
1:E2:14:GLU:HG2	5:k3:766:ALA:HB1	2.02	0.41
2:H2:36:VAL:HA	2:H2:39:ARG:HH12	1.85	0.41
2:N2:58:LYS:HZ1	2:N2:132:ALA:HB1	1.85	0.41
2:N2:75:THR:OG1	1:O2:110:ILE:O	2.37	0.41
2:N2:91:TYR:O	2:N2:104:LEU:HD21	2.21	0.41
1:U2:3:VAL:HA	1:U2:6:LYS:HG2	2.02	0.41
2:X2:141:VAL:HG11	2:X2:146:ALA:HA	2.03	0.41
1:Y2:156:LEU:O	1:Y2:160:MET:HE3	2.21	0.41
1:e2:45:GLU:O	1:e2:49:ARG:NH2	2.54	0.41
1:i2:3:VAL:HG13	1:i2:25:ARG:HD2	2.03	0.41
1:k2:33:GLY:O	1:k2:37:LEU:HG	2.21	0.41
1:k2:89:LEU:O	1:k2:93:THR:HG23	2.20	0.41
2:l2:113:LYS:HE2	2:l2:113:LYS:HB2	1.83	0.41
2:n2:24:LEU:O	2:n2:28:LYS:HG2	2.21	0.41
1:o2:17:TYR:HE2	2:p2:90:ARG:HA	1.86	0.41
2:r2:145:ALA:HA	2:r2:148:GLU:HG3	2.03	0.41
1:s2:27:LYS:HA	1:s2:27:LYS:HD2	1.40	0.41
2:t2:101:PRO:HB2	2:t2:155:TYR:CE1	2.56	0.41
1:u2:52:LYS:HD3	5:j3:952:PHE:CE1	2.55	0.41
1:u2:58:LEU:HD22	1:u2:129:GLY:CA	2.51	0.41
2:D3:39:ARG:O	2:D3:43:VAL:HG23	2.20	0.41
1:E3:90:ARG:HD3	2:F3:18:TYR:CE1	2.56	0.41
1:G3:67:SER:O	1:G3:73:TYR:HB2	2.21	0.41
2:H3:47:ASN:O	2:H3:51:ILE:HD12	2.20	0.41
2:H3:111:GLY:HA2	2:H3:114:GLU:CD	2.45	0.41
2:J3:73:TYR:OH	1:K3:90:ARG:NH2	2.24	0.41
1:O3:37:LEU:HD12	1:O3:38:ARG:N	2.36	0.41
1:O3:40:ALA:CB	1:O3:97:VAL:HG13	2.51	0.41
2:P3:54:GLU:O	2:P3:58:LYS:HG3	2.20	0.41
2:R3:65:LEU:CD1	5:k3:706:PRO:HG3	2.51	0.41
1:S3:50:ILE:HG22	1:S3:133:MET:HG2	2.03	0.41
1:W3:81:CYS:HA	6:W3:201:CYC:HAC1	1.92	0.41
2:X3:73:TYR:O	2:X3:74:THR:OG1	2.29	0.41
1:a3:9:VAL:HG21	5:k3:251:GLU:O	2.21	0.41
1:a3:16:ARG:NH1	1:a3:19:SER:HB2	2.35	0.41
2:f3:145:ALA:HA	2:f3:148:GLU:OE2	2.20	0.41
5:j3:278:TYR:HB2	5:j3:284:PRO:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:325:ASN:HB2	6:j3:1201:CYC:HBA1	2.03	0.41
5:j3:386:ILE:HD11	5:j3:393:MET:O	2.21	0.41
5:j3:974:LEU:O	5:j3:974:LEU:HD22	2.21	0.41
5:k3:52:ARG:HE	5:k3:52:ARG:HB3	1.72	0.41
5:k3:288:LEU:O	5:k3:288:LEU:HD22	2.21	0.41
5:k3:766:ALA:HA	5:k3:769:THR:HG22	2.02	0.41
5:k3:776:PHE:HB3	5:k3:780:ILE:HD12	2.03	0.41
5:k3:1024:LYS:NZ	5:k3:1038:ARG:HH12	2.18	0.41
2:h3:133:MET:O	2:h3:137:VAL:HG13	2.21	0.41
2:B1:1:MET:CE	2:B1:103:ILE:HB	2.51	0.41
1:C1:100:ASP:OD1	1:C1:101:VAL:N	2.54	0.41
2:F1:73:TYR:O	2:F1:77:ARG:HB2	2.21	0.41
1:E1:89:LEU:HD13	1:E1:133:MET:HE3	2.02	0.41
1:H1:38:ARG:O	1:H1:42:THR:HG23	2.20	0.41
1:H1:87:TYR:HB3	6:H1:201:CYC:HBB3	2.02	0.41
6:H1:201:CYC:HMA3	6:H1:201:CYC:NB	2.29	0.41
2:J1:47:ASN:O	2:J1:51:ILE:HD12	2.21	0.41
2:J1:107:ARG:HG2	4:M1:45:GLN:HB3	2.03	0.41
3:K1:116:TYR:O	5:k3:238:ARG:HB3	2.21	0.41
6:K1:201:CYC:HMA3	6:K1:201:CYC:NB	2.35	0.41
3:L1:127:ILE:HD11	3:L1:160:MET:HG3	2.02	0.41
1:A2:93:THR:O	1:A2:97:VAL:HG13	2.21	0.41
1:A2:123:ILE:HB	1:A2:124:PRO:HD3	2.03	0.41
2:D2:10:ASN:O	2:D2:14:VAL:HG13	2.21	0.41
2:F2:73:TYR:CD2	2:F2:74:THR:HG23	2.55	0.41
2:H2:65:LEU:HD23	2:H2:65:LEU:HA	1.90	0.41
1:I2:72:ALA:CA	1:I2:77:MET:HB3	2.46	0.41
1:I2:97:VAL:HG21	2:J2:19:LEU:HD11	2.02	0.41
1:K2:27:LYS:O	1:K2:30:VAL:HG22	2.20	0.41
6:K2:201:CYC:HMA1	6:K2:201:CYC:NB	2.26	0.41
2:L2:73:TYR:O	2:L2:74:THR:OG1	2.28	0.41
1:M2:84:ASP:OD2	6:M2:201:CYC:HHB	2.21	0.41
2:N2:47:ASN:O	2:N2:51:ILE:HD12	2.21	0.41
1:O2:45:GLU:OE1	2:r2:117:ASN:ND2	2.54	0.41
2:R2:83:ARG:HD2	4:z2:38:PHE:CZ	2.56	0.41
1:S2:47:ARG:O	1:S2:51:VAL:HG23	2.21	0.41
1:S2:77:MET:SD	6:S2:201:CYC:HAD1	2.60	0.41
1:S2:105:GLU:CB	1:S2:109:ILE:HD11	2.48	0.41
2:T2:91:TYR:HH	2:T2:107:ARG:HH21	1.64	0.41
1:U2:6:LYS:O	1:U2:9:VAL:HG12	2.21	0.41
1:W2:76:LYS:HD2	1:W2:77:MET:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y2:26:ILE:O	1:Y2:30:VAL:HG13	2.20	0.41
2:Z2:66:THR:HG21	6:a2:201:CYC:O2A	2.21	0.41
2:Z2:82:ILE:HA	2:Z2:85:MET:CE	2.40	0.41
1:a2:123:ILE:HB	1:a2:124:PRO:HD3	2.03	0.41
6:a2:201:CYC:HMA3	6:a2:201:CYC:NB	2.34	0.41
1:c2:20:PRO:CD	1:m2:101:VAL:HB	2.50	0.41
1:c2:90:ARG:NH1	2:d2:16:GLY:HA2	2.36	0.41
2:d2:36:VAL:HA	2:d2:39:ARG:CD	2.51	0.41
2:d2:39:ARG:HB3	2:d2:39:ARG:CZ	2.50	0.41
2:d2:119:LEU:HD22	6:x2:101:CYC:O2D	2.21	0.41
2:d2:130:ILE:CD1	2:d2:160:LEU:HD12	2.51	0.41
2:d2:131:GLN:O	2:d2:135:GLU:HG2	2.21	0.41
1:e2:77:MET:H	1:e2:77:MET:CE	2.33	0.41
1:e2:116:TYR:CD1	1:e2:121:THR:HB	2.56	0.41
1:i2:21:GLY:HA3	1:s2:100:ASP:OD1	2.21	0.41
1:i2:108:GLY:C	1:i2:109:ILE:HD12	2.46	0.41
2:l2:73:TYR:O	2:l2:74:THR:OG1	2.31	0.41
2:n2:76:ARG:HD3	1:o2:110:ILE:HD13	2.02	0.41
2:n2:97:LEU:HD23	2:n2:97:LEU:HA	1.95	0.41
2:n2:122:PRO:HG2	6:k3:1205:CYC:HMC1	2.03	0.41
1:o2:76:LYS:HD2	1:o2:77:MET:CE	2.51	0.41
2:p2:47:ASN:O	2:p2:51:ILE:HD12	2.21	0.41
1:q2:126:VAL:HG22	6:q2:201:CYC:HMC1	2.01	0.41
2:r2:24:LEU:O	2:r2:28:LYS:HD3	2.21	0.41
1:s2:123:ILE:HB	1:s2:124:PRO:HD3	2.03	0.41
2:t2:119:LEU:HD11	6:j3:1205:CYC:CAA	2.51	0.41
2:v2:22:ALA:O	2:v2:26:LYS:HD3	2.21	0.41
1:A3:26:ILE:C	1:A3:28:SER:N	2.79	0.41
1:A3:52:LYS:HA	1:A3:52:LYS:HD2	1.76	0.41
1:A3:94:TYR:OH	2:B3:17:LYS:O	2.37	0.41
2:D3:57:ALA:CA	2:D3:61:ILE:HD11	2.49	0.41
2:D3:74:THR:OG1	2:D3:77:ARG:HD3	2.21	0.41
2:D3:134:LYS:HG3	2:D3:150:SER:HA	2.02	0.41
1:E3:107:ILE:HD11	4:z3:65:THR:CG2	2.51	0.41
1:G3:122:PRO:O	1:G3:126:VAL:HG23	2.21	0.41
2:H3:12:TYR:CE1	2:H3:23:ALA:HB2	2.56	0.41
2:H3:72:MET:HB2	6:H3:201:CYC:OC	2.20	0.41
2:J3:12:TYR:HD1	2:J3:17:LYS:HB2	1.85	0.41
2:L3:46:SER:CB	1:U3:154:ASP:HB3	2.44	0.41
2:N3:151:ILE:HD11	2:N3:152:TYR:CE2	2.55	0.41
1:O3:40:ALA:HB2	1:O3:97:VAL:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R3:8:VAL:CG1	2:R3:23:ALA:HB1	2.51	0.41
1:S3:39:ILE:O	1:S3:43:LEU:HG	2.20	0.41
1:S3:92:VAL:HA	1:S3:104:ILE:HD11	2.02	0.41
1:U3:50:ILE:HA	1:U3:136:VAL:HG11	2.03	0.41
2:V3:160:LEU:HD23	2:V3:160:LEU:HA	1.86	0.41
2:X3:119:LEU:HD11	6:X3:201:CYC:HAA1	2.03	0.41
1:Y3:126:VAL:CG1	1:Y3:160:MET:HE1	2.51	0.41
6:Y3:201:CYC:HMA1	6:Y3:201:CYC:NB	2.28	0.41
1:a3:4:LEU:HD23	1:a3:26:ILE:HD13	2.03	0.41
1:a3:104:ILE:HD11	1:a3:155:TYR:CD2	2.56	0.41
2:b3:133:MET:HE2	2:b3:133:MET:HB3	1.91	0.41
1:e3:15:ALA:HA	2:h3:90:ARG:CZ	2.51	0.41
2:f3:109:LEU:HD21	2:f3:156:LEU:HD12	2.02	0.41
2:f3:114:GLU:HG2	5:j3:491:THR:HG23	2.01	0.41
2:g3:68:PRO:HA	2:g3:73:TYR:CD1	2.56	0.41
5:j3:236:ALA:O	5:j3:237:ASP:HB2	2.21	0.41
5:j3:1125:ARG:HA	5:j3:1128:VAL:CG1	2.48	0.41
6:j3:1204:CYC:HC	6:j3:1204:CYC:CMD	2.34	0.41
5:k3:187:ARG:HG3	5:k3:188:GLU:OE1	2.21	0.41
5:k3:187:ARG:CZ	5:k3:237:ASP:HB2	2.51	0.41
5:k3:382:ILE:CG1	5:k3:401:LEU:HB2	2.51	0.41
5:k3:514:SER:HA	5:k3:515:PRO:HD3	1.95	0.41
5:k3:1106:PHE:O	5:k3:1110:ILE:HG12	2.20	0.41
2:h3:83:ARG:HE	2:h3:84:ASP:H	1.68	0.41
2:h3:133:MET:HA	2:h3:136:VAL:HG12	2.02	0.41
1:A1:66:VAL:HA	1:A1:72:ALA:O	2.21	0.41
1:C1:33:GLY:HA2	1:C1:36:ARG:CG	2.51	0.41
2:F1:44:ILE:HG23	2:F1:89:LEU:HD11	2.02	0.41
1:E1:140:LEU:O	1:E1:141:LEU:HD23	2.21	0.41
3:K1:105:GLU:HG3	3:K1:110:THR:HG23	2.02	0.41
3:L1:101:ASN:OD1	1:e3:20:PRO:HD2	2.20	0.41
4:M1:18:ARG:H	4:M1:18:ARG:HG3	1.59	0.41
1:A2:26:ILE:O	1:A2:30:VAL:HG13	2.21	0.41
1:E2:34:GLU:OE1	2:F2:28:LYS:HE2	2.21	0.41
2:H2:112:LEU:HD23	2:H2:160:LEU:HD21	2.03	0.41
2:H2:122:PRO:HG2	6:H2:201:CYC:CMC	2.51	0.41
1:O2:38:ARG:O	1:O2:41:GLN:HG3	2.21	0.41
1:O2:64:ASP:HA	1:O2:67:SER:OG	2.21	0.41
1:S2:27:LYS:O	1:S2:30:VAL:HG22	2.21	0.41
2:V2:47:ASN:O	2:V2:51:ILE:HD12	2.20	0.41
1:g2:111:GLY:HA2	1:g2:114:GLU:CD	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i2:4:LEU:HD11	2:j2:3:ASP:OD2	2.21	0.41
1:i2:76:LYS:H	1:i2:76:LYS:CD	2.34	0.41
1:m2:85:LEU:HB3	1:m2:133:MET:SD	2.61	0.41
1:m2:98:ALA:HB2	2:n2:9:ILE:HD13	2.03	0.41
2:n2:137:VAL:O	2:n2:141:VAL:HG13	2.21	0.41
2:r2:73:TYR:O	2:r2:74:THR:OG1	2.30	0.41
2:t2:104:LEU:O	2:t2:108:VAL:HB	2.21	0.41
4:z2:6:LYS:HE2	4:z2:57:PHE:CE1	2.55	0.41
2:D3:81:CYS:O	2:D3:85:MET:HE2	2.21	0.41
1:G3:27:LYS:HA	1:G3:30:VAL:HG22	2.03	0.41
2:H3:83:ARG:NH2	6:H3:201:CYC:O2A	2.54	0.41
2:H3:136:VAL:O	2:H3:140:LEU:HD13	2.21	0.41
1:I3:111:GLY:HA2	1:I3:114:GLU:OE1	2.21	0.41
1:K3:107:ILE:HD11	4:i3:65:THR:CG2	2.51	0.41
2:L3:160:LEU:HD23	2:L3:160:LEU:HA	1.87	0.41
2:N3:160:LEU:HD23	2:N3:160:LEU:HA	1.87	0.41
2:V3:83:ARG:NH2	6:V3:201:CYC:O2A	2.54	0.41
1:W3:23:LEU:HD13	2:X3:42:ALA:HB2	2.02	0.41
1:W3:58:LEU:HA	1:W3:61:ILE:HG22	2.03	0.41
1:Y3:15:ALA:O	5:k3:385:PRO:HB3	2.21	0.41
5:j3:176:PRO:HD3	5:j3:226:TYR:HE1	1.86	0.41
5:j3:357:LEU:HD11	5:j3:379:PHE:HA	2.03	0.41
5:j3:1005:LEU:HD23	5:j3:1049:PHE:HE2	1.86	0.41
5:k3:586:LEU:O	5:k3:590:GLU:HG3	2.21	0.41
5:k3:971:VAL:O	5:k3:971:VAL:HG13	2.21	0.41
2:h3:55:ALA:CB	2:h3:133:MET:HG3	2.51	0.41
1:C1:105:GLU:HA	1:C1:109:ILE:CD1	2.50	0.40
1:C1:123:ILE:H	1:C1:123:ILE:HG12	1.63	0.40
1:H1:62:ARG:O	1:H1:65:VAL:HG22	2.21	0.40
2:J1:76:ARG:NH2	4:M1:67:VAL:HG21	2.36	0.40
6:J1:201:CYC:HC	6:J1:201:CYC:CMD	2.33	0.40
1:G2:156:LEU:HD23	1:G2:156:LEU:HA	1.89	0.40
2:H2:148:GLU:HA	2:H2:151:ILE:CD1	2.50	0.40
1:O2:6:LYS:O	1:O2:9:VAL:HG12	2.21	0.40
2:P2:39:ARG:O	2:P2:43:VAL:HG23	2.20	0.40
2:P2:134:LYS:HD2	2:P2:150:SER:HB2	2.01	0.40
2:P2:148:GLU:O	2:P2:151:ILE:HG12	2.21	0.40
2:T2:67:ARG:O	2:T2:73:TYR:HB2	2.20	0.40
2:T2:113:LYS:HZ2	2:T2:123:ILE:HG12	1.85	0.40
1:W2:62:ARG:HG3	1:W2:64:ASP:OD1	2.21	0.40
1:W2:142:SER:HB2	1:W2:145:ASP:OD2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y2:69:GLY:HA3	1:m2:64:ASP:OD2	2.22	0.40
1:Y2:94:TYR:O	1:Y2:97:VAL:HG22	2.21	0.40
1:a2:50:ILE:HA	1:a2:136:VAL:CG1	2.40	0.40
1:g2:101:VAL:HG12	1:g2:152:TYR:CE2	2.56	0.40
2:h2:95:ALA:HB2	2:h2:104:LEU:HG	2.02	0.40
2:j2:81:CYS:HA	6:y2:101:CYC:HAC1	1.74	0.40
2:p2:107:ARG:O	6:p2:201:CYC:HBB1	2.21	0.40
2:r2:101:PRO:HB2	2:r2:155:TYR:CE1	2.55	0.40
2:r2:109:LEU:HD22	2:r2:159:GLY:HA3	2.02	0.40
1:s2:91:LEU:HD21	1:s2:107:ILE:HG21	2.02	0.40
1:s2:105:GLU:O	1:s2:110:ILE:HG12	2.21	0.40
1:A3:126:VAL:HG23	6:A3:201:CYC:CMC	2.50	0.40
2:F3:131:GLN:O	2:F3:134:LYS:HB3	2.20	0.40
2:F3:154:ASP:HA	2:F3:157:SER:OG	2.21	0.40
1:I3:135:ASN:O	1:I3:138:THR:HG22	2.21	0.40
1:K3:77:MET:HE2	1:K3:77:MET:HA	2.04	0.40
1:K3:108:GLY:O	1:K3:109:ILE:HD13	2.20	0.40
2:R3:102:SER:O	2:R3:106:GLU:HG3	2.21	0.40
1:S3:148:GLU:HA	1:S3:148:GLU:OE2	2.21	0.40
1:U3:85:LEU:HD22	1:U3:133:MET:HE3	2.03	0.40
2:b3:160:LEU:HD23	2:b3:160:LEU:HA	1.95	0.40
1:c3:43:LEU:HD11	1:c3:141:LEU:HD11	2.02	0.40
1:c3:114:GLU:O	1:c3:118:SER:OG	2.37	0.40
2:f3:78:TYR:O	2:f3:82:ILE:HG23	2.21	0.40
4:z3:52:LEU:HD22	4:z3:52:LEU:H	1.85	0.40
5:j3:33:ARG:HG3	5:j3:34:TYR:O	2.21	0.40
5:j3:215:LYS:HA	5:j3:215:LYS:HE3	2.03	0.40
5:j3:286:VAL:HG23	5:j3:287:ASN:H	1.84	0.40
5:j3:1066:PHE:HB2	5:j3:1096:ILE:HG21	2.03	0.40
5:k3:190:LEU:HB3	5:k3:194:CYS:HB2	2.03	0.40
5:k3:327:GLU:OE2	5:k3:327:GLU:N	2.54	0.40
2:h3:64:ASP:HA	2:h3:67:ARG:CZ	2.51	0.40
2:B1:55:ALA:CB	2:B1:133:MET:HG2	2.52	0.40
1:C1:24:ASP:HA	1:C1:27:LYS:CE	2.45	0.40
1:C1:39:ILE:HD13	1:C1:39:ILE:HA	1.91	0.40
1:E1:155:TYR:HB2	1:c3:20:PRO:CG	2.51	0.40
1:H1:22:GLU:HA	5:j3:42:GLN:OE1	2.20	0.40
1:H1:39:ILE:HA	1:H1:42:THR:OG1	2.21	0.40
3:L1:20:VAL:HB	1:e3:101:VAL:HG13	2.02	0.40
3:L1:135:LYS:HD2	3:L1:135:LYS:O	2.22	0.40
4:M1:3:ARG:NH1	4:M1:67:VAL:HG22	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M1:42:GLN:O	4:M1:46:LYS:HG2	2.22	0.40
1:E2:2:SER:OG	2:F2:3:ASP:OD2	2.38	0.40
2:H2:73:TYR:O	2:H2:77:ARG:HG3	2.21	0.40
2:L2:65:LEU:HB3	2:L2:72:MET:HG2	2.04	0.40
1:O2:89:LEU:O	1:O2:93:THR:HG23	2.21	0.40
1:S2:101:VAL:HA	1:S2:104:ILE:HD12	2.03	0.40
1:U2:60:GLN:NE2	2:p2:117:ASN:O	2.54	0.40
1:U2:156:LEU:HD23	1:U2:156:LEU:HA	1.89	0.40
2:V2:89:LEU:HD13	2:V2:133:MET:SD	2.61	0.40
2:V2:113:LYS:H	2:V2:113:LYS:HG2	1.69	0.40
1:W2:115:MET:HE1	6:W2:201:CYC:NB	2.36	0.40
2:X2:71:MEN:HE23	2:X2:119:LEU:O	2.21	0.40
6:Y2:201:CYC:HMA3	6:Y2:201:CYC:NB	2.35	0.40
1:a2:101:VAL:HG23	1:a2:105:GLU:CD	2.47	0.40
2:d2:136:VAL:O	2:d2:140:LEU:HD13	2.21	0.40
1:e2:53:GLN:OE1	1:e2:136:VAL:HG13	2.21	0.40
1:e2:101:VAL:HB	1:e2:155:TYR:CE2	2.57	0.40
1:i2:103:PRO:HA	1:i2:106:GLU:HG3	2.02	0.40
2:j2:104:LEU:O	2:j2:108:VAL:HB	2.21	0.40
2:l2:101:PRO:HB2	2:l2:155:TYR:CE1	2.56	0.40
2:r2:134:LYS:HD3	2:r2:134:LYS:C	2.46	0.40
2:t2:99:GLY:HA2	2:t2:152:TYR:OH	2.20	0.40
2:t2:137:VAL:O	2:t2:141:VAL:HG13	2.21	0.40
1:u2:115:MET:HE1	6:u2:201:CYC:CHB	2.51	0.40
2:v2:12:TYR:CD2	2:v2:19:LEU:HA	2.55	0.40
2:v2:96:MET:HE3	2:v2:96:MET:HB3	1.94	0.40
1:A3:122:PRO:O	1:A3:126:VAL:HG23	2.21	0.40
1:C3:37:LEU:HD23	1:C3:97:VAL:HG12	2.01	0.40
2:D3:134:LYS:HD2	2:D3:150:SER:HB2	2.04	0.40
2:F3:160:LEU:HD23	2:F3:160:LEU:HA	1.87	0.40
2:H3:76:ARG:HD2	4:i3:14:LEU:C	2.47	0.40
6:H3:201:CYC:HBA1	4:i3:26:THR:HG21	2.02	0.40
6:J3:201:CYC:HMA3	6:J3:201:CYC:NB	2.30	0.40
1:M3:37:LEU:O	1:M3:41:GLN:HG3	2.21	0.40
2:P3:148:GLU:O	2:P3:151:ILE:HG12	2.21	0.40
2:T3:142:GLY:O	2:T3:146:ALA:HB2	2.22	0.40
2:X3:27:LEU:HD12	2:X3:27:LEU:HA	1.76	0.40
2:b3:99:GLY:HA2	2:b3:152:TYR:OH	2.20	0.40
2:f3:19:LEU:HD13	2:f3:19:LEU:HA	1.91	0.40
5:j3:214:PHE:HD2	5:j3:219:ASP:HB2	1.86	0.40
5:j3:431:GLN:HA	5:j3:432:PRO:HD2	1.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j3:669:GLU:O	5:j3:673:VAL:HG23	2.22	0.40
5:k3:386:ILE:CG1	5:k3:393:MET:HB2	2.51	0.40
5:k3:526:MET:SD	5:k3:683:ARG:HD2	2.61	0.40
5:k3:1018:LEU:HD23	5:k3:1018:LEU:HA	1.88	0.40
2:h3:81:CYS:HA	2:h3:83:ARG:O	2.22	0.40
2:h3:126:THR:O	2:h3:130:ILE:HG12	2.20	0.40
2:F1:76:ARG:CZ	4:z1:67:VAL:HG21	2.52	0.40
2:F1:130:ILE:HA	2:F1:133:MET:CE	2.50	0.40
2:G1:61:ILE:HD12	2:G1:62:TYR:CZ	2.56	0.40
6:H1:201:CYC:HC	6:H1:201:CYC:CMD	2.35	0.40
2:I1:104:LEU:HG	2:I1:156:LEU:HD13	2.03	0.40
3:K1:20:VAL:HG13	1:a3:151:PHE:CD1	2.57	0.40
3:K1:39:VAL:HG13	3:K1:141:LEU:HD13	2.03	0.40
1:C2:109:ILE:HD13	1:C2:159:ALA:CB	2.52	0.40
2:D2:160:LEU:HD23	2:D2:160:LEU:HA	1.87	0.40
1:G2:77:MET:HA	1:G2:77:MET:HE2	2.04	0.40
1:I2:134:LYS:O	1:I2:138:THR:HG22	2.21	0.40
1:K2:22:GLU:HA	1:K2:25:ARG:HG2	2.03	0.40
1:K2:22:GLU:O	1:K2:26:ILE:HG13	2.21	0.40
2:V2:51:ILE:HD11	2:V2:140:LEU:HD22	2.02	0.40
2:b2:85:MET:O	2:b2:133:MET:HE1	2.21	0.40
1:c2:76:LYS:HE2	1:c2:76:LYS:HB3	1.59	0.40
1:c2:105:GLU:O	1:c2:110:ILE:HG13	2.20	0.40
1:g2:49:ARG:HH21	1:g2:136:VAL:CG1	2.34	0.40
1:q2:126:VAL:HG22	6:q2:201:CYC:H3C	2.02	0.40
2:r2:66:THR:HG21	6:s2:201:CYC:O2A	2.20	0.40
1:s2:94:TYR:OH	2:t2:17:LYS:O	2.37	0.40
4:w2:5:PHE:O	4:w2:31:LEU:HA	2.20	0.40
1:G3:6:LYS:O	1:G3:9:VAL:HG12	2.21	0.40
1:I3:77:MET:HE2	1:I3:77:MET:N	2.36	0.40
2:L3:111:GLY:HA2	2:L3:114:GLU:CD	2.47	0.40
1:Q3:27:LYS:O	1:Q3:30:VAL:HG22	2.22	0.40
2:R3:76:ARG:HG3	5:k3:515:PRO:HD2	2.03	0.40
2:X3:76:ARG:HG3	5:j3:515:PRO:HD2	2.03	0.40
1:Y3:49:ARG:HB3	1:Y3:49:ARG:NH1	2.36	0.40
2:b3:55:ALA:HA	2:b3:132:ALA:HB1	2.03	0.40
2:f3:114:GLU:HA	5:j3:491:THR:HG23	2.03	0.40
5:j3:469:GLN:HG3	5:j3:470:HIS:O	2.22	0.40
5:j3:1063:THR:O	5:j3:1067:LEU:HB2	2.21	0.40
5:k3:837:LEU:HA	5:k3:837:LEU:HD23	1.84	0.40
5:k3:912:VAL:HG12	5:k3:913:VAL:HG23	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k3:1066:PHE:HB2	5:k3:1096:ILE:HG21	2.04	0.40
6:h3:201:CYC:HC	6:h3:201:CYC:CMD	2.34	0.40
2:B1:76:ARG:NH1	1:C1:110:ILE:HD13	2.37	0.40
2:B1:76:ARG:NH1	1:C1:106:GLU:OE2	2.54	0.40
2:I1:49:THR:O	2:I1:52:ILE:HG22	2.22	0.40
2:J1:6:THR:HA	2:J1:9:ILE:CG1	2.52	0.40
3:K1:25:GLN:HG3	1:a3:25:ARG:CG	2.46	0.40
3:L1:122:PRO:HB2	3:L1:125:ALA:HB3	2.04	0.40
2:B2:10:ASN:O	2:B2:14:VAL:HG13	2.22	0.40
2:F2:121:VAL:HG13	2:F2:122:PRO:HD2	2.03	0.40
1:G2:123:ILE:HB	1:G2:124:PRO:HD3	2.04	0.40
1:I2:91:LEU:HD21	1:I2:107:ILE:HG21	2.04	0.40
1:K2:32:SER:O	1:K2:35:ARG:HG3	2.21	0.40
1:Q2:23:LEU:O	1:Q2:26:ILE:HG13	2.22	0.40
2:T2:41:ALA:CB	2:T2:97:LEU:HD11	2.51	0.40
1:U2:64:ASP:OD1	1:U2:64:ASP:N	2.37	0.40
2:V2:36:VAL:CG1	2:V2:145:ALA:HB2	2.52	0.40
2:V2:99:GLY:HA2	2:V2:152:TYR:OH	2.21	0.40
2:Z2:39:ARG:HB3	2:Z2:39:ARG:NH1	2.36	0.40
1:a2:52:LYS:HA	1:a2:52:LYS:HD3	1.82	0.40
1:a2:135:ASN:HA	1:a2:138:THR:HG22	2.03	0.40
2:d2:105:ASP:OD2	2:d2:155:TYR:OH	2.24	0.40
1:i2:27:LYS:O	1:i2:30:VAL:HG22	2.22	0.40
2:j2:122:PRO:HG2	6:y2:101:CYC:CMC	2.45	0.40
1:k2:77:MET:HE2	1:k2:77:MET:N	2.37	0.40
1:k2:97:VAL:HG11	2:l2:19:LEU:HD12	2.02	0.40
1:m2:35:ARG:O	1:m2:39:ILE:HG13	2.22	0.40
1:m2:67:SER:O	1:m2:73:TYR:HB2	2.21	0.40
1:o2:41:GLN:HA	1:o2:41:GLN:OE1	2.21	0.40
1:q2:106:GLU:C	1:q2:107:ILE:HD13	2.47	0.40
2:r2:47:ASN:O	2:r2:51:ILE:HD12	2.21	0.40
2:r2:57:ALA:HA	2:r2:61:ILE:HG12	2.02	0.40
1:s2:14:GLU:HB2	1:s2:16:ARG:HG2	2.02	0.40
1:s2:49:ARG:O	1:s2:53:GLN:HG3	2.21	0.40
1:u2:18:LEU:HD22	2:v2:97:LEU:HG	2.03	0.40
2:B3:91:TYR:O	2:B3:104:LEU:HD21	2.22	0.40
2:F3:73:TYR:CD2	2:F3:74:THR:HG23	2.57	0.40
2:H3:73:TYR:CD2	2:H3:74:THR:HG23	2.57	0.40
2:J3:56:ALA:O	2:J3:61:ILE:HG12	2.22	0.40
1:K3:2:SER:O	1:K3:6:LYS:HG2	2.22	0.40
1:K3:6:LYS:HG3	1:K3:100:ASP:OD2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K3:41:GLN:O	1:K3:44:THR:HG22	2.22	0.40
1:K3:134:LYS:HG3	1:K3:153:PHE:HB2	2.03	0.40
2:g3:133:MET:CA	2:g3:136:VAL:HG22	2.47	0.40
4:z3:5:PHE:HB2	4:z3:32:VAL:CG1	2.51	0.40
4:i3:8:THR:HB	4:i3:53:SER:OG	2.21	0.40
5:j3:138:PRO:CA	5:j3:201:VAL:HG11	2.52	0.40
5:j3:197:SER:HA	5:j3:200:ILE:HG12	2.03	0.40
5:k3:487:PHE:CD1	5:k3:625:LYS:HG2	2.56	0.40
5:k3:875:LEU:HD11	5:k3:885:GLN:HE22	1.87	0.40
5:k3:1084:LEU:HD23	5:k3:1084:LEU:HA	1.90	0.40
6:k3:1204:CYC:HC	6:k3:1204:CYC:HMD3	1.87	0.40
2:h3:15:GLN:H	2:h3:15:GLN:HG2	1.61	0.40
2:F1:1:MET:HE2	2:F1:103:ILE:HD13	2.03	0.40
2:F1:11:ASN:O	2:F1:14:VAL:HG22	2.21	0.40
2:G1:16:GLY:HA3	2:J1:68:PRO:HG2	2.04	0.40
1:H1:105:GLU:HG3	1:H1:109:ILE:CD1	2.45	0.40
3:K1:134:LYS:HB2	3:K1:153:PHE:HB3	2.03	0.40
3:L1:78:LEU:O	3:L1:82:ILE:HD13	2.21	0.40
2:B2:122:PRO:HG2	6:B2:201:CYC:HMC2	2.03	0.40
1:M2:105:GLU:OE1	1:M2:155:TYR:OH	2.37	0.40
2:R2:34:GLY:O	2:R2:38:VAL:HG23	2.22	0.40
2:R2:127:VAL:O	2:R2:131:GLN:HG2	2.21	0.40
2:T2:73:TYR:O	2:T2:77:ARG:NE	2.53	0.40
1:W2:39:ILE:HG12	1:W2:145:ASP:HB3	2.03	0.40
2:X2:40:ALA:HB2	2:X2:145:ALA:HB3	2.04	0.40
1:Y2:49:ARG:HH12	1:Y2:52:LYS:HG2	1.86	0.40
2:Z2:2:GLN:HE22	4:x2:66:GLY:HA3	1.84	0.40
1:c2:61:ILE:HG22	1:c2:62:ARG:CG	2.46	0.40
1:c2:87:TYR:HB3	6:c2:201:CYC:HBB3	2.03	0.40
1:e2:105:GLU:HA	1:e2:109:ILE:CG1	2.25	0.40
2:f2:136:VAL:O	2:f2:140:LEU:HD13	2.22	0.40
1:g2:116:TYR:CD1	1:g2:121:THR:HB	2.56	0.40
1:i2:90:ARG:HH12	2:j2:16:GLY:CA	2.32	0.40
1:m2:109:ILE:HD13	1:m2:160:MET:HE1	2.03	0.40
2:n2:109:LEU:CD2	2:n2:159:GLY:HA3	2.52	0.40
2:p2:19:LEU:HD13	2:p2:23:ALA:HB1	2.03	0.40
2:p2:40:ALA:O	2:p2:43:VAL:HG22	2.21	0.40
2:p2:60:LEU:CD1	2:p2:72:MET:HE1	2.51	0.40
1:s2:2:SER:HA	1:s2:100:ASP:HB3	2.03	0.40
6:s2:201:CYC:HMA3	6:s2:201:CYC:NB	2.35	0.40
2:t2:95:ALA:HB1	2:t2:152:TYR:CD1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v2:36:VAL:HA	2:v2:39:ARG:CG	2.51	0.40
4:z2:16:ARG:CD	4:z2:18:ARG:HG3	2.51	0.40
1:A3:130:VAL:HG12	1:A3:157:VAL:HG23	2.04	0.40
1:C3:97:VAL:HG21	2:D3:19:LEU:CD1	2.47	0.40
2:D3:75:THR:HG22	1:E3:115:MET:SD	2.62	0.40
1:G3:134:LYS:HG3	1:G3:153:PHE:CB	2.51	0.40
1:I3:82:LEU:HA	1:I3:85:LEU:HD12	2.03	0.40
1:I3:89:LEU:O	1:I3:93:THR:HG23	2.21	0.40
1:I3:126:VAL:HG22	6:I3:201:CYC:H3C	2.03	0.40
1:O3:56:ASP:OD1	1:O3:57:GLN:N	2.54	0.40
2:P3:57:ALA:HA	2:P3:61:ILE:CD1	2.51	0.40
1:Q3:109:ILE:HD12	1:Q3:110:ILE:N	2.37	0.40
1:Q3:132:ALA:O	1:Q3:136:VAL:HG23	2.21	0.40
1:Y3:97:VAL:HG11	2:Z3:19:LEU:CD1	2.49	0.40
1:a3:45:GLU:OE1	1:a3:45:GLU:HA	2.22	0.40
2:d3:37:ARG:NH1	2:d3:148:GLU:OE2	2.54	0.40
2:d3:40:ALA:HB3	2:d3:96:MET:HE1	2.02	0.40
2:f3:3:ASP:OD1	2:f3:6:THR:HG23	2.22	0.40
2:f3:114:GLU:CG	5:j3:491:THR:HG23	2.52	0.40
5:k3:184:LEU:HD13	5:k3:241:ALA:H	1.86	0.40
5:k3:301:TYR:CE1	5:k3:337:LEU:HD21	2.57	0.40
5:k3:834:LYS:CB	5:k3:900:LEU:HD23	2.52	0.40
5:k3:930:LEU:HD23	5:k3:930:LEU:HA	1.88	0.40
5:k3:1012:PRO:HD2	5:k3:1017:ARG:NH1	2.36	0.40
5:k3:1012:PRO:HA	5:k3:1013:PRO:HD3	1.84	0.40
5:k3:1070:ALA:HB1	5:k3:1071:PRO:HD2	2.04	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	A1	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
1	A2	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
1	A3	158/161 (98%)	148 (94%)	8 (5%)	2 (1%)	10	33
1	C1	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
1	C2	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
1	C3	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
1	E1	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
1	E2	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
1	E3	158/161 (98%)	157 (99%)	1 (1%)	0	100	100
1	G2	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
1	G3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
1	H1	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
1	I2	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
1	I3	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
1	K2	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
1	K3	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
1	M2	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
1	M3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
1	O2	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
1	O3	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
1	Q2	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
1	Q3	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
1	S2	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
1	S3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
1	U2	158/161 (98%)	157 (99%)	1 (1%)	0	100	100
1	U3	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
1	W2	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
1	W3	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
1	Y2	158/161 (98%)	157 (99%)	1 (1%)	0	100	100
1	Y3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
1	a2	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
1	a3	158/161 (98%)	152 (96%)	5 (3%)	1 (1%)	22	50

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	c2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
1	c3	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
1	e2	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
1	e3	158/161 (98%)	152 (96%)	5 (3%)	1 (1%)	22	50
1	g2	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
1	i2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
1	k2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
1	m2	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
1	o2	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
1	q2	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
1	s2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
1	u2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	B1	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
2	B2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	B3	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
2	D1	158/161 (98%)	156 (99%)	2 (1%)	0	100	100
2	D2	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
2	D3	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
2	F1	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
2	F2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	F3	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
2	G1	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	H2	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
2	H3	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
2	I1	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
2	J1	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
2	J2	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
2	J3	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
2	L2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	L3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	N2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	N3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	P2	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
2	P3	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
2	R2	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
2	R3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	T2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	T3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	V2	158/161 (98%)	151 (96%)	7 (4%)	0	100	100
2	V3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	X2	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
2	X3	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
2	Z2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	Z3	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
2	b2	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
2	b3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	d2	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
2	d3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	f2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	f3	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	g3	158/161 (98%)	130 (82%)	25 (16%)	3 (2%)	6	26
2	h2	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
2	h3	158/161 (98%)	130 (82%)	25 (16%)	3 (2%)	6	26
2	j2	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
2	l2	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
2	n2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
2	p2	158/161 (98%)	153 (97%)	5 (3%)	0	100	100
2	r2	158/161 (98%)	155 (98%)	3 (2%)	0	100	100
2	t2	158/161 (98%)	152 (96%)	6 (4%)	0	100	100
2	v2	158/161 (98%)	154 (98%)	4 (2%)	0	100	100
3	K1	158/161 (98%)	150 (95%)	8 (5%)	0	100	100
3	L1	158/161 (98%)	150 (95%)	8 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
4	M1	66/69 (96%)	58 (88%)	7 (11%)	1 (2%)	8 29
4	i3	66/69 (96%)	59 (89%)	6 (9%)	1 (2%)	8 29
4	w2	66/69 (96%)	56 (85%)	7 (11%)	3 (4%)	2 12
4	x2	66/69 (96%)	57 (86%)	8 (12%)	1 (2%)	8 29
4	y2	66/69 (96%)	57 (86%)	9 (14%)	0	100 100
4	z1	66/69 (96%)	58 (88%)	8 (12%)	0	100 100
4	z2	66/69 (96%)	56 (85%)	8 (12%)	2 (3%)	3 18
4	z3	66/69 (96%)	59 (89%)	6 (9%)	1 (2%)	8 29
5	j3	1104/1155 (96%)	971 (88%)	119 (11%)	14 (1%)	10 33
5	k3	1104/1155 (96%)	973 (88%)	115 (10%)	16 (1%)	9 30
All	All	17588/17996 (98%)	16814 (96%)	725 (4%)	49 (0%)	38 66

All (49) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	a3	25	ARG
1	e3	25	ARG
2	g3	90	ARG
2	g3	102	SER
5	j3	20	VAL
5	j3	283	ARG
5	j3	388	ARG
5	j3	984	ILE
5	k3	20	VAL
5	k3	278	TYR
5	k3	283	ARG
5	k3	388	ARG
5	k3	973	THR
5	k3	984	ILE
2	h3	84	ASP
2	h3	90	ARG
2	h3	102	SER
4	z2	22	GLU
4	w2	22	GLU
1	A3	29	PHE
2	g3	84	ASP
5	j3	236	ALA
5	j3	558	VAL

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Mol	Chain	Res	Type
5	j3	702	VAL
5	j3	729	ILE
5	k3	236	ALA
5	k3	558	VAL
5	k3	729	ILE
5	k3	702	VAL
4	w2	57	PHE
4	x2	63	ALA
5	j3	278	TYR
5	j3	286	VAL
5	j3	544	VAL
5	k3	286	VAL
5	k3	544	VAL
4	z3	17	VAL
4	i3	17	VAL
5	j3	3	ILE
5	k3	3	ILE
5	k3	391	SER
5	k3	705	THR
4	z2	17	VAL
1	A3	19	SER
5	k3	588	VAL
4	M1	17	VAL
4	w2	17	VAL
5	j3	282	GLY
5	j3	588	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	A1	127/128 (99%)	122 (96%)	5 (4%)	27 54
1	A2	127/128 (99%)	126 (99%)	1 (1%)	79 88
1	A3	127/128 (99%)	126 (99%)	1 (1%)	79 88
1	C1	127/128 (99%)	120 (94%)	7 (6%)	18 44

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C2	127/128 (99%)	125 (98%)	2 (2%)	58	75
1	C3	127/128 (99%)	123 (97%)	4 (3%)	35	61
1	E1	127/128 (99%)	126 (99%)	1 (1%)	79	88
1	E2	127/128 (99%)	121 (95%)	6 (5%)	22	49
1	E3	127/128 (99%)	121 (95%)	6 (5%)	22	49
1	G2	127/128 (99%)	126 (99%)	1 (1%)	79	88
1	G3	127/128 (99%)	125 (98%)	2 (2%)	58	75
1	H1	127/128 (99%)	124 (98%)	3 (2%)	44	67
1	I2	127/128 (99%)	122 (96%)	5 (4%)	27	54
1	I3	127/128 (99%)	121 (95%)	6 (5%)	22	49
1	K2	127/128 (99%)	120 (94%)	7 (6%)	18	44
1	K3	127/128 (99%)	124 (98%)	3 (2%)	44	67
1	M2	127/128 (99%)	122 (96%)	5 (4%)	27	54
1	M3	127/128 (99%)	124 (98%)	3 (2%)	44	67
1	O2	127/128 (99%)	125 (98%)	2 (2%)	58	75
1	O3	127/128 (99%)	125 (98%)	2 (2%)	58	75
1	Q2	127/128 (99%)	121 (95%)	6 (5%)	22	49
1	Q3	127/128 (99%)	126 (99%)	1 (1%)	79	88
1	S2	127/128 (99%)	124 (98%)	3 (2%)	44	67
1	S3	127/128 (99%)	121 (95%)	6 (5%)	22	49
1	U2	127/128 (99%)	126 (99%)	1 (1%)	79	88
1	U3	127/128 (99%)	121 (95%)	6 (5%)	22	49
1	W2	127/128 (99%)	120 (94%)	7 (6%)	18	44
1	W3	127/128 (99%)	122 (96%)	5 (4%)	27	54
1	Y2	127/128 (99%)	127 (100%)	0	100	100
1	Y3	127/128 (99%)	127 (100%)	0	100	100
1	a2	127/128 (99%)	124 (98%)	3 (2%)	44	67
1	a3	127/128 (99%)	123 (97%)	4 (3%)	35	61
1	c2	127/128 (99%)	122 (96%)	5 (4%)	27	54
1	c3	127/128 (99%)	123 (97%)	4 (3%)	35	61
1	e2	127/128 (99%)	123 (97%)	4 (3%)	35	61

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	e3	127/128 (99%)	121 (95%)	6 (5%)	22	49
1	g2	127/128 (99%)	125 (98%)	2 (2%)	58	75
1	i2	127/128 (99%)	121 (95%)	6 (5%)	22	49
1	k2	127/128 (99%)	126 (99%)	1 (1%)	79	88
1	m2	127/128 (99%)	124 (98%)	3 (2%)	44	67
1	o2	127/128 (99%)	124 (98%)	3 (2%)	44	67
1	q2	127/128 (99%)	123 (97%)	4 (3%)	35	61
1	s2	127/128 (99%)	125 (98%)	2 (2%)	58	75
1	u2	127/128 (99%)	125 (98%)	2 (2%)	58	75
2	B1	121/121 (100%)	116 (96%)	5 (4%)	26	52
2	B2	121/121 (100%)	119 (98%)	2 (2%)	56	74
2	B3	121/121 (100%)	121 (100%)	0	100	100
2	D1	121/121 (100%)	118 (98%)	3 (2%)	42	66
2	D2	121/121 (100%)	119 (98%)	2 (2%)	56	74
2	D3	121/121 (100%)	117 (97%)	4 (3%)	33	59
2	F1	121/121 (100%)	120 (99%)	1 (1%)	79	88
2	F2	121/121 (100%)	120 (99%)	1 (1%)	79	88
2	F3	121/121 (100%)	120 (99%)	1 (1%)	79	88
2	G1	121/121 (100%)	115 (95%)	6 (5%)	20	47
2	H2	121/121 (100%)	120 (99%)	1 (1%)	79	88
2	H3	121/121 (100%)	119 (98%)	2 (2%)	56	74
2	I1	121/121 (100%)	120 (99%)	1 (1%)	79	88
2	J1	121/121 (100%)	119 (98%)	2 (2%)	56	74
2	J2	121/121 (100%)	119 (98%)	2 (2%)	56	74
2	J3	121/121 (100%)	117 (97%)	4 (3%)	33	59
2	L2	121/121 (100%)	120 (99%)	1 (1%)	79	88
2	L3	121/121 (100%)	120 (99%)	1 (1%)	79	88
2	N2	121/121 (100%)	121 (100%)	0	100	100
2	N3	121/121 (100%)	119 (98%)	2 (2%)	56	74
2	P2	121/121 (100%)	118 (98%)	3 (2%)	42	66
2	P3	121/121 (100%)	119 (98%)	2 (2%)	56	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	R2	121/121 (100%)	118 (98%)	3 (2%)	42 66
2	R3	121/121 (100%)	119 (98%)	2 (2%)	56 74
2	T2	121/121 (100%)	120 (99%)	1 (1%)	79 88
2	T3	121/121 (100%)	121 (100%)	0	100 100
2	V2	121/121 (100%)	121 (100%)	0	100 100
2	V3	121/121 (100%)	118 (98%)	3 (2%)	42 66
2	X2	121/121 (100%)	120 (99%)	1 (1%)	79 88
2	X3	121/121 (100%)	118 (98%)	3 (2%)	42 66
2	Z2	121/121 (100%)	120 (99%)	1 (1%)	79 88
2	Z3	121/121 (100%)	120 (99%)	1 (1%)	79 88
2	b2	121/121 (100%)	120 (99%)	1 (1%)	79 88
2	b3	121/121 (100%)	121 (100%)	0	100 100
2	d2	121/121 (100%)	116 (96%)	5 (4%)	26 52
2	d3	121/121 (100%)	119 (98%)	2 (2%)	56 74
2	f2	121/121 (100%)	119 (98%)	2 (2%)	56 74
2	f3	121/121 (100%)	120 (99%)	1 (1%)	79 88
2	g3	121/121 (100%)	116 (96%)	5 (4%)	26 52
2	h2	121/121 (100%)	118 (98%)	3 (2%)	42 66
2	h3	121/121 (100%)	114 (94%)	7 (6%)	17 43
2	j2	121/121 (100%)	118 (98%)	3 (2%)	42 66
2	l2	121/121 (100%)	117 (97%)	4 (3%)	33 59
2	n2	121/121 (100%)	116 (96%)	5 (4%)	26 52
2	p2	121/121 (100%)	120 (99%)	1 (1%)	79 88
2	r2	121/121 (100%)	117 (97%)	4 (3%)	33 59
2	t2	121/121 (100%)	117 (97%)	4 (3%)	33 59
2	v2	121/121 (100%)	117 (97%)	4 (3%)	33 59
3	K1	132/135 (98%)	123 (93%)	9 (7%)	13 38
3	L1	132/135 (98%)	122 (92%)	10 (8%)	11 34
4	M1	57/58 (98%)	51 (90%)	6 (10%)	5 21
4	i3	57/58 (98%)	55 (96%)	2 (4%)	31 57
4	w2	57/58 (98%)	52 (91%)	5 (9%)	8 28

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
4	x2	57/58 (98%)	55 (96%)	2 (4%)	31 57
4	y2	57/58 (98%)	56 (98%)	1 (2%)	54 73
4	z1	57/58 (98%)	53 (93%)	4 (7%)	12 37
4	z2	57/58 (98%)	56 (98%)	1 (2%)	54 73
4	z3	57/58 (98%)	55 (96%)	2 (4%)	31 57
5	j3	941/977 (96%)	912 (97%)	29 (3%)	35 61
5	k3	941/977 (96%)	913 (97%)	28 (3%)	36 62
All	All	13998/14128 (99%)	13631 (97%)	367 (3%)	42 65

All (367) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A1	24	ASP
1	A1	75	GLU
1	A1	92	VAL
1	A1	128	GLU
1	A1	141	LEU
2	B1	60	LEU
2	B1	103	ILE
2	B1	108	VAL
2	B1	115	THR
2	B1	150	SER
1	C1	60	GLN
1	C1	71	ASN
1	C1	78	THR
1	C1	101	VAL
1	C1	119	LEU
1	C1	121	THR
1	C1	134	LYS
2	D1	66	THR
2	D1	113	LYS
2	D1	127	VAL
2	F1	157	SER
1	E1	138	THR
2	G1	49	THR
2	G1	93	THR
2	G1	108	VAL
2	G1	113	LYS
2	G1	115	THR
2	G1	123	ILE

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Mol	Chain	Res	Type
1	H1	8	ILE
1	H1	28	SER
1	H1	78	THR
2	I1	66	THR
2	J1	147	LYS
2	J1	150	SER
3	K1	26	ILE
3	K1	37	LEU
3	K1	50	VAL
3	K1	85	LEU
3	K1	121	VAL
3	K1	123	ILE
3	K1	128	GLU
3	K1	132	LEU
3	K1	135	LYS
3	L1	26	ILE
3	L1	37	LEU
3	L1	43	LEU
3	L1	50	VAL
3	L1	96	ILE
3	L1	97	VAL
3	L1	121	VAL
3	L1	123	ILE
3	L1	154	ASP
3	L1	157	ILE
4	z1	7	VAL
4	z1	8	THR
4	z1	19	THR
4	z1	58	THR
4	M1	7	VAL
4	M1	8	THR
4	M1	19	THR
4	M1	36	ASN
4	M1	56	LEU
4	M1	58	THR
1	A2	104	ILE
2	B2	32	THR
2	B2	96	MET
1	C2	144	ASP
1	C2	160	MET
2	D2	54	GLU
2	D2	151	ILE

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Mol	Chain	Res	Type
1	E2	57	GLN
1	E2	138	THR
1	E2	139	SER
1	E2	142	SER
1	E2	144	ASP
1	E2	145	ASP
2	F2	66	THR
1	G2	133	MET
2	H2	106	GLU
1	I2	61	ILE
1	I2	142	SER
1	I2	144	ASP
1	I2	145	ASP
1	I2	160	MET
2	J2	151	ILE
2	J2	157	SER
1	K2	49	ARG
1	K2	57	GLN
1	K2	121	THR
1	K2	139	SER
1	K2	142	SER
1	K2	144	ASP
1	K2	145	ASP
2	L2	96	MET
1	M2	9	VAL
1	M2	47	ARG
1	M2	86	ASP
1	M2	104	ILE
1	M2	142	SER
1	O2	102	THR
1	O2	104	ILE
2	P2	66	THR
2	P2	157	SER
2	P2	160	LEU
1	Q2	32	SER
1	Q2	53	GLN
1	Q2	115	MET
1	Q2	144	ASP
1	Q2	145	ASP
1	Q2	160	MET
2	R2	32	THR
2	R2	113	LYS

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Mol	Chain	Res	Type
2	R2	160	LEU
1	S2	9	VAL
1	S2	104	ILE
1	S2	142	SER
2	T2	54	GLU
1	U2	144	ASP
1	W2	10	ASN
1	W2	47	ARG
1	W2	53	GLN
1	W2	57	GLN
1	W2	76	LYS
1	W2	86	ASP
1	W2	145	ASP
2	X2	32	THR
2	Z2	66	THR
1	a2	43	LEU
1	a2	64	ASP
1	a2	101	VAL
2	b2	157	SER
1	c2	37	LEU
1	c2	43	LEU
1	c2	71	ASN
1	c2	76	LYS
1	c2	121	THR
2	d2	26	LYS
2	d2	38	VAL
2	d2	54	GLU
2	d2	66	THR
2	d2	157	SER
1	e2	43	LEU
1	e2	47	ARG
1	e2	131	ARG
1	e2	142	SER
2	f2	36	VAL
2	f2	53	LYS
1	g2	61	ILE
1	g2	64	ASP
2	h2	66	THR
2	h2	144	ASP
2	h2	157	SER
1	i2	4	LEU
1	i2	66	VAL

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Mol	Chain	Res	Type
1	i2	73	TYR
1	i2	92	VAL
1	i2	113	LYS
1	i2	121	THR
2	j2	66	THR
2	j2	106	GLU
2	j2	157	SER
1	k2	89	LEU
2	l2	66	THR
2	l2	82	ILE
2	l2	119	LEU
2	l2	133	MET
1	m2	2	SER
1	m2	53	GLN
1	m2	61	ILE
2	n2	36	VAL
2	n2	54	GLU
2	n2	63	SER
2	n2	64	ASP
2	n2	118	SER
1	o2	23	LEU
1	o2	24	ASP
1	o2	53	GLN
2	p2	160	LEU
1	q2	9	VAL
1	q2	75	GLU
1	q2	102	THR
1	q2	144	ASP
2	r2	64	ASP
2	r2	66	THR
2	r2	151	ILE
2	r2	157	SER
1	s2	45	GLU
1	s2	133	MET
2	t2	36	VAL
2	t2	63	SER
2	t2	64	ASP
2	t2	118	SER
1	u2	138	THR
1	u2	142	SER
2	v2	58	LYS
2	v2	93	THR

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Mol	Chain	Res	Type
2	v2	106	GLU
2	v2	160	LEU
4	z2	26	THR
4	w2	7	VAL
4	w2	26	THR
4	w2	39	THR
4	w2	60	VAL
4	w2	65	THR
4	x2	32	VAL
4	x2	42	GLN
4	y2	29	THR
1	A3	121	THR
1	C3	65	VAL
1	C3	77	MET
1	C3	104	ILE
1	C3	105	GLU
2	D3	8	VAL
2	D3	17	LYS
2	D3	61	ILE
2	D3	66	THR
1	E3	4	LEU
1	E3	23	LEU
1	E3	24	ASP
1	E3	96	ILE
1	E3	102	THR
1	E3	160	MET
2	F3	3	ASP
1	G3	35	ARG
1	G3	121	THR
2	H3	1	MET
2	H3	121	VAL
1	I3	2	SER
1	I3	22	GLU
1	I3	57	GLN
1	I3	65	VAL
1	I3	104	ILE
1	I3	142	SER
2	J3	52	ILE
2	J3	64	ASP
2	J3	66	THR
2	J3	144	ASP
1	K3	3	VAL

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Mol	Chain	Res	Type
1	K3	23	LEU
1	K3	102	THR
2	L3	131	GLN
1	M3	9	VAL
1	M3	65	VAL
1	M3	142	SER
2	N3	46	SER
2	N3	54	GLU
1	O3	32	SER
1	O3	110	ILE
2	P3	32	THR
2	P3	157	SER
1	Q3	160	MET
2	R3	150	SER
2	R3	157	SER
1	S3	9	VAL
1	S3	41	GLN
1	S3	100	ASP
1	S3	105	GLU
1	S3	138	THR
1	S3	142	SER
1	U3	19	SER
1	U3	32	SER
1	U3	138	THR
1	U3	139	SER
1	U3	142	SER
1	U3	145	ASP
2	V3	32	THR
2	V3	96	MET
2	V3	157	SER
1	W3	27	LYS
1	W3	121	THR
1	W3	138	THR
1	W3	145	ASP
1	W3	151	PHE
2	X3	118	SER
2	X3	140	LEU
2	X3	157	SER
2	Z3	157	SER
1	a3	102	THR
1	a3	104	ILE
1	a3	115	MET

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Mol	Chain	Res	Type
1	a3	145	ASP
1	c3	53	GLN
1	c3	128	GLU
1	c3	131	ARG
1	c3	145	ASP
2	d3	96	MET
2	d3	157	SER
1	e3	49	ARG
1	e3	67	SER
1	e3	91	LEU
1	e3	102	THR
1	e3	113	LYS
1	e3	145	ASP
2	f3	10	ASN
2	g3	3	ASP
2	g3	47	ASN
2	g3	105	ASP
2	g3	108	VAL
2	g3	127	VAL
4	z3	14	LEU
4	z3	23	LEU
4	i3	2	SER
4	i3	14	LEU
5	j3	9	SER
5	j3	24	THR
5	j3	32	ASP
5	j3	51	GLN
5	j3	61	THR
5	j3	76	PHE
5	j3	179	LEU
5	j3	197	SER
5	j3	240	ASP
5	j3	275	THR
5	j3	289	SER
5	j3	297	VAL
5	j3	382	ILE
5	j3	449	ARG
5	j3	501	ILE
5	j3	531	THR
5	j3	558	VAL
5	j3	591	ILE
5	j3	665	LEU

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Mol	Chain	Res	Type
5	j3	727	THR
5	j3	737	MET
5	j3	752	VAL
5	j3	782	SER
5	j3	911	LEU
5	j3	919	ILE
5	j3	946	ASP
5	j3	967	VAL
5	j3	1119	LEU
5	j3	1152	TYR
5	k3	9	SER
5	k3	24	THR
5	k3	32	ASP
5	k3	45	GLN
5	k3	61	THR
5	k3	77	VAL
5	k3	180	GLU
5	k3	197	SER
5	k3	277	ILE
5	k3	297	VAL
5	k3	298	ARG
5	k3	328	ILE
5	k3	382	ILE
5	k3	393	MET
5	k3	449	ARG
5	k3	531	THR
5	k3	546	PHE
5	k3	591	ILE
5	k3	642	ARG
5	k3	665	LEU
5	k3	752	VAL
5	k3	782	SER
5	k3	826	THR
5	k3	911	LEU
5	k3	946	ASP
5	k3	991	SER
5	k3	1093	VAL
5	k3	1147	TYR
2	h3	3	ASP
2	h3	14	VAL
2	h3	15	GLN
2	h3	50	THR

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Mol	Chain	Res	Type
2	h3	108	VAL
2	h3	121	VAL
2	h3	148	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (88) such sidechains are listed below:

Mol	Chain	Res	Type
2	B1	117	ASN
1	C1	10	ASN
2	D1	11	ASN
2	F1	11	ASN
2	F1	15	GLN
1	H1	41	GLN
1	H1	57	GLN
2	J1	2	GLN
2	J1	47	ASN
4	z1	24	GLN
4	z1	41	GLN
4	z1	45	GLN
4	z1	61	GLN
4	M1	24	GLN
1	A2	161	GLN
2	B2	2	GLN
2	H2	131	GLN
2	J2	131	GLN
2	L2	15	GLN
1	O2	60	GLN
2	T2	15	GLN
2	T2	47	ASN
1	U2	60	GLN
2	X2	15	GLN
1	Y2	161	GLN
2	Z2	47	ASN
2	Z2	131	GLN
1	c2	71	ASN
2	d2	47	ASN
1	e2	60	GLN
2	f2	47	ASN
2	f2	131	GLN
1	i2	161	GLN
2	j2	15	GLN
2	l2	10	ASN

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Mol	Chain	Res	Type
2	l2	47	ASN
2	r2	47	ASN
1	u2	161	GLN
4	z2	36	ASN
4	z2	64	ASN
4	x2	41	GLN
4	y2	42	GLN
1	A3	53	GLN
2	B3	10	ASN
2	B3	15	GLN
2	D3	47	ASN
2	F3	2	GLN
2	F3	110	ASN
1	G3	53	GLN
1	I3	57	GLN
2	J3	47	ASN
2	J3	117	ASN
1	M3	41	GLN
1	O3	41	GLN
2	P3	110	ASN
1	U3	135	ASN
2	V3	2	GLN
2	V3	110	ASN
1	W3	60	GLN
2	Z3	47	ASN
1	a3	60	GLN
1	e3	60	GLN
4	z3	36	ASN
4	z3	41	GLN
4	i3	41	GLN
5	j3	26	ASN
5	j3	29	ASN
5	j3	468	ASN
5	j3	476	ASN
5	j3	584	GLN
5	j3	741	GLN
5	j3	851	HIS
5	j3	1027	ASN
5	j3	1074	GLN
5	k3	26	ASN
5	k3	29	ASN
5	k3	325	ASN

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Mol	Chain	Res	Type
5	k3	431	GLN
5	k3	468	ASN
5	k3	489	ASN
5	k3	646	ASN
5	k3	723	GLN
5	k3	730	ASN
5	k3	741	GLN
5	k3	885	GLN
5	k3	902	ASN
5	k3	938	GLN
5	k3	1074	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

48 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	$\#\|Z\| > 2$
2	MEN	F1	71	2	7,8,9	0.90	0	6,9,11	1.23	1 (16%)
2	MEN	N3	71	2	7,8,9	0.88	0	6,9,11	1.53	1 (16%)
2	MEN	f3	71	2	7,8,9	0.91	0	6,9,11	1.52	1 (16%)
2	MEN	J2	71	2	7,8,9	0.91	0	6,9,11	1.55	2 (33%)
2	MEN	j2	71	2	7,8,9	0.91	0	6,9,11	1.18	1 (16%)
2	MEN	T3	71	2	7,8,9	0.90	0	6,9,11	1.50	1 (16%)
2	MEN	R2	71	2	7,8,9	0.87	0	6,9,11	1.48	1 (16%)
2	MEN	f2	71	2	7,8,9	0.93	0	6,9,11	1.26	1 (16%)
2	MEN	r2	71	2	7,8,9	0.93	0	6,9,11	1.20	1 (16%)
2	MEN	V3	71	2	7,8,9	0.89	0	6,9,11	1.49	1 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	MEN	v2	71	2	7,8,9	0.91	0	6,9,11	1.47	1 (16%)
2	MEN	P3	71	2	7,8,9	0.89	0	6,9,11	1.35	1 (16%)
2	MEN	p2	71	2	7,8,9	0.89	0	6,9,11	1.30	1 (16%)
2	MEN	b3	71	2	7,8,9	0.90	0	6,9,11	1.50	2 (33%)
2	MEN	D1	71	2	7,8,9	0.90	0	6,9,11	1.34	1 (16%)
2	MEN	l2	71	2	7,8,9	0.94	0	6,9,11	1.32	1 (16%)
2	MEN	h2	71	2	7,8,9	0.91	0	6,9,11	1.38	1 (16%)
2	MEN	L2	71	2	7,8,9	0.91	0	6,9,11	1.46	1 (16%)
2	MEN	B2	71	2	7,8,9	0.92	0	6,9,11	1.24	1 (16%)
2	MEN	Z2	71	2	7,8,9	0.87	0	6,9,11	1.33	1 (16%)
2	MEN	n2	71	2	7,8,9	0.90	0	6,9,11	1.46	1 (16%)
2	MEN	F3	71	2	7,8,9	0.89	0	6,9,11	1.36	1 (16%)
2	MEN	L3	71	2	7,8,9	0.87	0	6,9,11	1.36	1 (16%)
2	MEN	d3	71	2	7,8,9	0.88	0	6,9,11	1.59	1 (16%)
2	MEN	b2	71	2	7,8,9	0.90	0	6,9,11	1.28	1 (16%)
2	MEN	V2	71	2	7,8,9	0.87	0	6,9,11	1.32	1 (16%)
2	MEN	X3	71	2	7,8,9	0.86	0	6,9,11	1.42	1 (16%)
2	MEN	g3	71	2	7,8,9	0.85	0	6,9,11	1.42	1 (16%)
2	MEN	t2	71	2	7,8,9	0.88	0	6,9,11	1.33	1 (16%)
2	MEN	G1	71	2	7,8,9	0.89	0	6,9,11	1.27	0
2	MEN	B1	71	2	7,8,9	0.92	0	6,9,11	1.02	1 (16%)
2	MEN	I1	71	2	7,8,9	0.92	0	6,9,11	1.30	1 (16%)
2	MEN	h3	71	2	7,8,9	0.87	0	6,9,11	1.43	1 (16%)
2	MEN	F2	71	2	7,8,9	0.91	0	6,9,11	1.47	1 (16%)
2	MEN	X2	71	2	7,8,9	0.87	0	6,9,11	1.39	1 (16%)
2	MEN	Z3	71	2	7,8,9	0.89	0	6,9,11	1.55	1 (16%)
2	MEN	R3	71	2	7,8,9	0.88	0	6,9,11	1.45	1 (16%)
2	MEN	D3	71	2	7,8,9	0.89	0	6,9,11	1.13	0
2	MEN	H3	71	2	7,8,9	0.89	0	6,9,11	1.31	1 (16%)
2	MEN	D2	71	2	7,8,9	0.89	0	6,9,11	1.52	1 (16%)
2	MEN	J3	71	2	7,8,9	0.89	0	6,9,11	1.21	1 (16%)
2	MEN	B3	71	2	7,8,9	0.87	0	6,9,11	1.39	1 (16%)
2	MEN	N2	71	2	7,8,9	0.90	0	6,9,11	1.22	1 (16%)
2	MEN	P2	71	2	7,8,9	0.96	0	6,9,11	1.04	0
2	MEN	T2	71	2	7,8,9	0.89	0	6,9,11	1.24	1 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	MEN	H2	71	2	7,8,9	0.88	0	6,9,11	1.40	1 (16%)
2	MEN	J1	71	2	7,8,9	0.90	0	6,9,11	1.24	1 (16%)
2	MEN	d2	71	2	7,8,9	0.92	0	6,9,11	1.02	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
2	MEN	F1	71	2	-	4/7/8/10	-
2	MEN	N3	71	2	-	1/7/8/10	-
2	MEN	f3	71	2	-	3/7/8/10	-
2	MEN	J2	71	2	-	2/7/8/10	-
2	MEN	j2	71	2	-	2/7/8/10	-
2	MEN	T3	71	2	-	2/7/8/10	-
2	MEN	R2	71	2	-	2/7/8/10	-
2	MEN	f2	71	2	-	3/7/8/10	-
2	MEN	r2	71	2	-	1/7/8/10	-
2	MEN	V3	71	2	-	3/7/8/10	-
2	MEN	v2	71	2	-	2/7/8/10	-
2	MEN	P3	71	2	-	2/7/8/10	-
2	MEN	p2	71	2	-	2/7/8/10	-
2	MEN	b3	71	2	-	2/7/8/10	-
2	MEN	D1	71	2	-	3/7/8/10	-
2	MEN	l2	71	2	-	2/7/8/10	-
2	MEN	h2	71	2	-	2/7/8/10	-
2	MEN	L2	71	2	-	2/7/8/10	-
2	MEN	B2	71	2	-	2/7/8/10	-
2	MEN	Z2	71	2	-	4/7/8/10	-
2	MEN	n2	71	2	-	2/7/8/10	-
2	MEN	F3	71	2	-	3/7/8/10	-
2	MEN	L3	71	2	-	2/7/8/10	-
2	MEN	d3	71	2	-	2/7/8/10	-
2	MEN	b2	71	2	-	3/7/8/10	-
2	MEN	V2	71	2	-	2/7/8/10	-
2	MEN	X3	71	2	-	1/7/8/10	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MEN	g3	71	2	-	5/7/8/10	-
2	MEN	t2	71	2	-	3/7/8/10	-
2	MEN	G1	71	2	-	3/7/8/10	-
2	MEN	B1	71	2	-	3/7/8/10	-
2	MEN	I1	71	2	-	2/7/8/10	-
2	MEN	h3	71	2	-	5/7/8/10	-
2	MEN	F2	71	2	-	3/7/8/10	-
2	MEN	X2	71	2	-	2/7/8/10	-
2	MEN	Z3	71	2	-	2/7/8/10	-
2	MEN	R3	71	2	-	1/7/8/10	-
2	MEN	D3	71	2	-	4/7/8/10	-
2	MEN	H3	71	2	-	0/7/8/10	-
2	MEN	D2	71	2	-	1/7/8/10	-
2	MEN	J3	71	2	-	4/7/8/10	-
2	MEN	B3	71	2	-	2/7/8/10	-
2	MEN	N2	71	2	-	4/7/8/10	-
2	MEN	P2	71	2	-	3/7/8/10	-
2	MEN	T2	71	2	-	1/7/8/10	-
2	MEN	H2	71	2	-	1/7/8/10	-
2	MEN	J1	71	2	-	2/7/8/10	-
2	MEN	d2	71	2	-	2/7/8/10	-

There are no bond length outliers.

All (46) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	R2	71	MEN	CB-CA-C	-3.02	105.80	111.47
2	d3	71	MEN	CB-CA-C	-2.97	105.90	111.47
2	v2	71	MEN	CB-CA-C	-2.94	105.96	111.47
2	Z2	71	MEN	CB-CA-C	-2.93	105.97	111.47
2	f3	71	MEN	CB-CA-C	-2.89	106.04	111.47
2	V3	71	MEN	CB-CA-C	-2.88	106.06	111.47
2	Z3	71	MEN	CB-CA-C	-2.88	106.07	111.47
2	F2	71	MEN	CB-CA-C	-2.86	106.11	111.47
2	L2	71	MEN	CB-CA-C	-2.81	106.21	111.47
2	N3	71	MEN	CB-CA-C	-2.76	106.29	111.47
2	T3	71	MEN	CB-CA-C	-2.75	106.30	111.47
2	h3	71	MEN	CB-CA-C	-2.74	106.32	111.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	h2	71	MEN	CB-CA-C	-2.74	106.33	111.47
2	b3	71	MEN	CB-CA-C	-2.73	106.34	111.47
2	l2	71	MEN	CB-CA-C	-2.73	106.36	111.47
2	R3	71	MEN	CB-CA-C	-2.70	106.41	111.47
2	X2	71	MEN	CB-CA-C	-2.67	106.47	111.47
2	n2	71	MEN	CB-CA-C	-2.64	106.53	111.47
2	D2	71	MEN	CB-CA-C	-2.63	106.53	111.47
2	p2	71	MEN	CB-CA-C	-2.63	106.53	111.47
2	g3	71	MEN	CB-CA-C	-2.63	106.53	111.47
2	P3	71	MEN	CB-CA-C	-2.62	106.56	111.47
2	f2	71	MEN	CB-CA-C	-2.61	106.58	111.47
2	H2	71	MEN	CB-CA-C	-2.59	106.61	111.47
2	H3	71	MEN	CB-CA-C	-2.59	106.62	111.47
2	D1	71	MEN	CB-CA-C	-2.57	106.66	111.47
2	X3	71	MEN	CB-CA-C	-2.56	106.67	111.47
2	L3	71	MEN	CB-CA-C	-2.55	106.69	111.47
2	F3	71	MEN	CB-CA-C	-2.51	106.75	111.47
2	B3	71	MEN	CB-CA-C	-2.51	106.76	111.47
2	I1	71	MEN	CB-CA-C	-2.51	106.76	111.47
2	b2	71	MEN	CB-CA-C	-2.50	106.78	111.47
2	J2	71	MEN	CB-CA-C	-2.50	106.78	111.47
2	t2	71	MEN	CB-CA-C	-2.42	106.93	111.47
2	V2	71	MEN	CB-CA-C	-2.39	106.98	111.47
2	F1	71	MEN	CB-CA-C	-2.30	107.17	111.47
2	J1	71	MEN	CB-CA-C	-2.28	107.19	111.47
2	j2	71	MEN	CB-CA-C	-2.26	107.22	111.47
2	B2	71	MEN	CB-CA-C	-2.22	107.31	111.47
2	T2	71	MEN	CB-CA-C	-2.20	107.35	111.47
2	r2	71	MEN	CB-CA-C	-2.17	107.40	111.47
2	N2	71	MEN	CB-CA-C	-2.14	107.46	111.47
2	B1	71	MEN	CB-CA-C	-2.13	107.47	111.47
2	J3	71	MEN	CB-CA-C	-2.10	107.53	111.47
2	b3	71	MEN	CA-CB-CG	-2.02	106.95	112.70
2	J2	71	MEN	CB-CG-ND2	2.02	118.20	115.48

There are no chirality outliers.

All (114) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B1	71	MEN	C-CA-CB-CG
2	D1	71	MEN	O-C-CA-CB
2	F1	71	MEN	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
2	G1	71	MEN	C-CA-CB-CG
2	F2	71	MEN	O-C-CA-CB
2	P2	71	MEN	O-C-CA-CB
2	Z2	71	MEN	C-CA-CB-CG
2	f2	71	MEN	O-C-CA-CB
2	t2	71	MEN	C-CA-CB-CG
2	D3	71	MEN	O-C-CA-CB
2	F3	71	MEN	O-C-CA-CB
2	J3	71	MEN	O-C-CA-CB
2	f3	71	MEN	O-C-CA-CB
2	g3	71	MEN	O-C-CA-CB
2	g3	71	MEN	C-CA-CB-CG
2	h3	71	MEN	O-C-CA-CB
2	h3	71	MEN	C-CA-CB-CG
2	g3	71	MEN	CA-CB-CG-ND2
2	B1	71	MEN	N-CA-CB-CG
2	F1	71	MEN	N-CA-CB-CG
2	Z2	71	MEN	N-CA-CB-CG
2	g3	71	MEN	N-CA-CB-CG
2	h3	71	MEN	N-CA-CB-CG
2	F2	71	MEN	CA-CB-CG-OD1
2	g3	71	MEN	CA-CB-CG-OD1
2	F1	71	MEN	CA-CB-CG-ND2
2	I1	71	MEN	CA-CB-CG-OD1
2	P2	71	MEN	CA-CB-CG-OD1
2	V2	71	MEN	CA-CB-CG-OD1
2	b2	71	MEN	CA-CB-CG-OD1
2	j2	71	MEN	CA-CB-CG-OD1
2	L3	71	MEN	CA-CB-CG-OD1
2	P3	71	MEN	CA-CB-CG-OD1
2	Z3	71	MEN	CA-CB-CG-OD1
2	d3	71	MEN	CA-CB-CG-OD1
2	f3	71	MEN	CA-CB-CG-OD1
2	h3	71	MEN	CA-CB-CG-OD1
2	I1	71	MEN	CA-CB-CG-ND2
2	R2	71	MEN	CA-CB-CG-ND2
2	V2	71	MEN	CA-CB-CG-ND2
2	Z2	71	MEN	CA-CB-CG-ND2
2	b2	71	MEN	CA-CB-CG-ND2
2	p2	71	MEN	CA-CB-CG-ND2
2	v2	71	MEN	CA-CB-CG-ND2
2	P3	71	MEN	CA-CB-CG-ND2

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Mol	Chain	Res	Type	Atoms
2	Z3	71	MEN	CA-CB-CG-ND2
2	d3	71	MEN	CA-CB-CG-ND2
2	f3	71	MEN	CA-CB-CG-ND2
2	h3	71	MEN	CA-CB-CG-ND2
2	G1	71	MEN	N-CA-CB-CG
2	F1	71	MEN	CA-CB-CG-OD1
2	J1	71	MEN	CA-CB-CG-OD1
2	L2	71	MEN	CA-CB-CG-OD1
2	R2	71	MEN	CA-CB-CG-OD1
2	X2	71	MEN	CA-CB-CG-OD1
2	Z2	71	MEN	CA-CB-CG-OD1
2	f2	71	MEN	CA-CB-CG-OD1
2	h2	71	MEN	CA-CB-CG-OD1
2	p2	71	MEN	CA-CB-CG-OD1
2	v2	71	MEN	CA-CB-CG-OD1
2	V3	71	MEN	CA-CB-CG-OD1
2	b3	71	MEN	CA-CB-CG-OD1
2	J1	71	MEN	CA-CB-CG-ND2
2	F2	71	MEN	CA-CB-CG-ND2
2	L2	71	MEN	CA-CB-CG-ND2
2	h2	71	MEN	CA-CB-CG-ND2
2	b3	71	MEN	CA-CB-CG-ND2
2	J3	71	MEN	C-CA-CB-CG
2	D1	71	MEN	CA-CB-CG-ND2
2	P2	71	MEN	CA-CB-CG-ND2
2	X2	71	MEN	CA-CB-CG-ND2
2	d2	71	MEN	CA-CB-CG-ND2
2	f2	71	MEN	CA-CB-CG-ND2
2	j2	71	MEN	CA-CB-CG-ND2
2	l2	71	MEN	CA-CB-CG-ND2
2	F3	71	MEN	CA-CB-CG-ND2
2	L3	71	MEN	CA-CB-CG-ND2
2	V3	71	MEN	CA-CB-CG-ND2
2	t2	71	MEN	N-CA-CB-CG
2	D1	71	MEN	CA-CB-CG-OD1
2	l2	71	MEN	CA-CB-CG-OD1
2	F3	71	MEN	CA-CB-CG-OD1
2	d2	71	MEN	CA-CB-CG-OD1
2	n2	71	MEN	CA-CB-CG-OD1
2	T3	71	MEN	CA-CB-CG-OD1
2	N2	71	MEN	N-CA-CB-CG
2	b2	71	MEN	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
2	D3	71	MEN	N-CA-CB-CG
2	J3	71	MEN	N-CA-CB-CG
2	V3	71	MEN	N-CA-CB-CG
2	J3	71	MEN	CA-CB-CG-OD1
2	G1	71	MEN	CA-CB-CG-OD1
2	J2	71	MEN	CA-CB-CG-OD1
2	T2	71	MEN	CA-CB-CG-OD1
2	r2	71	MEN	CA-CB-CG-OD1
2	B3	71	MEN	CA-CB-CG-OD1
2	B2	71	MEN	CA-CB-CG-ND2
2	T3	71	MEN	CA-CB-CG-ND2
2	N2	71	MEN	C-CA-CB-CG
2	D3	71	MEN	C-CA-CB-CG
2	B1	71	MEN	CA-CB-CG-OD1
2	B2	71	MEN	CA-CB-CG-OD1
2	D2	71	MEN	CA-CB-CG-OD1
2	N2	71	MEN	CA-CB-CG-OD1
2	t2	71	MEN	CA-CB-CG-OD1
2	D3	71	MEN	CA-CB-CG-OD1
2	R3	71	MEN	CA-CB-CG-OD1
2	X3	71	MEN	CA-CB-CG-OD1
2	H2	71	MEN	CA-CB-CG-ND2
2	J2	71	MEN	CA-CB-CG-ND2
2	N2	71	MEN	CA-CB-CG-ND2
2	n2	71	MEN	CA-CB-CG-ND2
2	B3	71	MEN	CA-CB-CG-ND2
2	N3	71	MEN	CA-CB-CG-ND2

There are no ring outliers.

27 monomers are involved in 32 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	F1	71	MEN	1	0
2	N3	71	MEN	1	0
2	j2	71	MEN	1	0
2	T3	71	MEN	1	0
2	R2	71	MEN	1	0
2	v2	71	MEN	3	0
2	p2	71	MEN	3	0
2	b3	71	MEN	1	0
2	D1	71	MEN	1	0
2	F3	71	MEN	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	L3	71	MEN	1	0
2	d3	71	MEN	1	0
2	b2	71	MEN	1	0
2	V2	71	MEN	1	0
2	X3	71	MEN	1	0
2	t2	71	MEN	1	0
2	G1	71	MEN	1	0
2	B1	71	MEN	1	0
2	I1	71	MEN	1	0
2	X2	71	MEN	2	0
2	Z3	71	MEN	1	0
2	R3	71	MEN	1	0
2	D3	71	MEN	1	0
2	B3	71	MEN	1	0
2	P2	71	MEN	1	0
2	J1	71	MEN	1	0
2	d2	71	MEN	1	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

96 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	$\#\|Z\| > 2$
6	CYC	K2	201	1	42,46,46	1.03	1 (2%)	50,67,67	1.38	6 (12%)
6	CYC	C2	201	1	42,46,46	1.03	1 (2%)	50,67,67	1.34	4 (8%)
6	CYC	s2	201	1	42,46,46	1.04	1 (2%)	50,67,67	1.37	5 (10%)
6	CYC	Y3	201	1	42,46,46	1.05	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	b2	201	2	42,46,46	1.05	1 (2%)	50,67,67	1.25	5 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
6	CYC	V2	201	2	42,46,46	1.04	1 (2%)	50,67,67	1.34	6 (12%)
6	CYC	q2	201	1	42,46,46	1.01	1 (2%)	50,67,67	1.35	6 (12%)
6	CYC	j3	1202	2	42,46,46	1.15	3 (7%)	50,67,67	1.46	9 (18%)
6	CYC	M3	201	1	42,46,46	1.03	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	j3	1204	2	42,46,46	1.15	1 (2%)	50,67,67	1.31	6 (12%)
6	CYC	H1	201	1	42,46,46	1.09	1 (2%)	50,67,67	1.37	5 (10%)
6	CYC	E2	201	1	42,46,46	1.03	1 (2%)	50,67,67	1.37	5 (10%)
6	CYC	u2	201	1	42,46,46	1.02	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	U2	201	1	42,46,46	1.05	1 (2%)	50,67,67	1.38	6 (12%)
6	CYC	V3	201	2	42,46,46	1.05	1 (2%)	50,67,67	1.35	5 (10%)
6	CYC	L1	201	3	42,46,46	1.10	1 (2%)	50,67,67	1.37	7 (14%)
6	CYC	j3	1203	2	42,46,46	1.05	2 (4%)	50,67,67	1.41	6 (12%)
6	CYC	p2	201	2	42,46,46	1.04	1 (2%)	50,67,67	1.33	7 (14%)
6	CYC	H3	201	2	42,46,46	1.06	1 (2%)	50,67,67	1.21	5 (10%)
6	CYC	R3	201	2	42,46,46	1.05	1 (2%)	50,67,67	1.27	5 (10%)
6	CYC	T2	201	2	42,46,46	1.08	1 (2%)	50,67,67	1.21	5 (10%)
6	CYC	F3	201	2	42,46,46	1.07	1 (2%)	50,67,67	1.33	6 (12%)
6	CYC	c2	201	1	42,46,46	1.07	1 (2%)	50,67,67	1.37	5 (10%)
6	CYC	a3	201	1	42,46,46	1.03	1 (2%)	50,67,67	1.37	5 (10%)
6	CYC	G2	201	1	42,46,46	1.06	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	F2	201	2	42,46,46	1.07	1 (2%)	50,67,67	1.25	5 (10%)
6	CYC	G3	201	-	42,46,46	1.11	1 (2%)	50,67,67	1.36	5 (10%)
6	CYC	k3	1202	2	42,46,46	1.01	1 (2%)	50,67,67	1.34	6 (12%)
6	CYC	B2	201	2	42,46,46	1.10	1 (2%)	50,67,67	1.35	5 (10%)
6	CYC	Y2	201	1	42,46,46	1.07	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	E3	201	1	42,46,46	1.07	1 (2%)	50,67,67	1.36	7 (14%)
6	CYC	k3	1207	-	42,46,46	1.36	2 (4%)	50,67,67	1.70	12 (24%)
6	CYC	I2	201	1	42,46,46	1.04	1 (2%)	50,67,67	1.35	5 (10%)
6	CYC	M2	201	1	42,46,46	1.06	1 (2%)	50,67,67	1.40	5 (10%)
6	CYC	j3	1206	-	42,46,46	1.29	1 (2%)	50,67,67	1.40	7 (14%)
6	CYC	d3	201	2	42,46,46	1.05	1 (2%)	50,67,67	1.39	5 (10%)
6	CYC	R2	201	2	42,46,46	1.11	1 (2%)	50,67,67	1.35	5 (10%)
6	CYC	k3	1206	2	42,46,46	1.03	1 (2%)	50,67,67	1.36	6 (12%)
6	CYC	A2	201	1	42,46,46	1.06	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	P2	201	2	42,46,46	1.05	1 (2%)	50,67,67	1.42	5 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
6	CYC	O3	201	1	42,46,46	1.03	1 (2%)	50,67,67	1.38	6 (12%)
6	CYC	a2	201	1	42,46,46	1.07	1 (2%)	50,67,67	1.36	5 (10%)
6	CYC	N3	201	2	42,46,46	1.06	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	z3	101	2	42,46,46	1.11	2 (4%)	50,67,67	1.12	5 (10%)
6	CYC	j3	1201	2	42,46,46	1.04	1 (2%)	50,67,67	1.18	5 (10%)
6	CYC	A3	201	-	42,46,46	1.11	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	K1	201	3	42,46,46	1.10	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	H2	201	2	42,46,46	1.05	1 (2%)	50,67,67	1.27	5 (10%)
6	CYC	O2	201	1	42,46,46	1.04	1 (2%)	50,67,67	1.35	5 (10%)
6	CYC	Q3	201	1	42,46,46	1.04	1 (2%)	50,67,67	1.39	5 (10%)
6	CYC	e2	201	1	42,46,46	1.04	1 (2%)	50,67,67	1.33	5 (10%)
6	CYC	k3	1203	2	42,46,46	1.12	2 (4%)	50,67,67	1.45	7 (14%)
6	CYC	I3	201	1	42,46,46	1.04	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	W3	201	1	42,46,46	1.02	1 (2%)	50,67,67	1.39	7 (14%)
6	CYC	j3	1205	2	42,46,46	1.05	1 (2%)	50,67,67	1.36	6 (12%)
6	CYC	k3	1201	2	42,46,46	0.95	2 (4%)	50,67,67	1.45	5 (10%)
6	CYC	C3	201	1	42,46,46	1.04	1 (2%)	50,67,67	1.38	6 (12%)
6	CYC	A1	201	1	42,46,46	1.05	1 (2%)	50,67,67	1.37	5 (10%)
6	CYC	X3	201	2	42,46,46	1.05	1 (2%)	50,67,67	1.31	5 (10%)
6	CYC	h3	201	2	42,46,46	1.08	1 (2%)	50,67,67	1.26	5 (10%)
6	CYC	U3	201	1	42,46,46	1.03	1 (2%)	50,67,67	1.37	6 (12%)
6	CYC	M1	101	2	42,46,46	1.06	1 (2%)	50,67,67	1.26	5 (10%)
6	CYC	X2	201	2	42,46,46	1.11	1 (2%)	50,67,67	1.32	5 (10%)
6	CYC	F1	201	2	42,46,46	1.11	1 (2%)	50,67,67	1.37	5 (10%)
6	CYC	g2	201	1	42,46,46	1.04	1 (2%)	50,67,67	1.37	5 (10%)
6	CYC	S2	201	1	42,46,46	1.03	1 (2%)	50,67,67	1.37	5 (10%)
6	CYC	T3	201	2	42,46,46	1.07	2 (4%)	50,67,67	1.38	5 (10%)
6	CYC	e3	201	1	42,46,46	1.05	1 (2%)	50,67,67	1.37	5 (10%)
6	CYC	W2	201	1	42,46,46	1.06	1 (2%)	50,67,67	1.36	7 (14%)
6	CYC	h2	201	2	42,46,46	1.09	1 (2%)	50,67,67	1.21	4 (8%)
6	CYC	m2	201	1	42,46,46	1.09	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	i2	201	1	42,46,46	1.05	1 (2%)	50,67,67	1.34	5 (10%)
6	CYC	k3	1205	2	42,46,46	1.02	1 (2%)	50,67,67	1.32	6 (12%)
6	CYC	K3	201	1	42,46,46	1.06	1 (2%)	50,67,67	1.37	6 (12%)
6	CYC	k2	201	1	42,46,46	1.05	1 (2%)	50,67,67	1.34	5 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
6	CYC	C1	201	1	42,46,46	1.08	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	k3	1204	2	42,46,46	1.09	1 (2%)	50,67,67	1.04	3 (6%)
6	CYC	E1	201	1	42,46,46	1.06	1 (2%)	50,67,67	1.37	5 (10%)
6	CYC	J3	201	2	42,46,46	1.08	1 (2%)	50,67,67	1.39	5 (10%)
6	CYC	o2	201	1	42,46,46	1.00	1 (2%)	50,67,67	1.38	6 (12%)
6	CYC	S3	201	1	42,46,46	1.03	1 (2%)	50,67,67	1.39	5 (10%)
6	CYC	L2	201	2	42,46,46	1.09	1 (2%)	50,67,67	1.27	5 (10%)
6	CYC	D3	201	2	42,46,46	1.06	1 (2%)	50,67,67	1.39	5 (10%)
6	CYC	L3	201	2	42,46,46	1.09	1 (2%)	50,67,67	1.33	7 (14%)
6	CYC	f3	201	2	42,46,46	1.06	1 (2%)	50,67,67	1.26	5 (10%)
6	CYC	y2	101	2	42,46,46	1.14	1 (2%)	50,67,67	1.39	6 (12%)
6	CYC	g3	201	2	42,46,46	1.06	1 (2%)	50,67,67	1.27	6 (12%)
6	CYC	b3	201	2	42,46,46	1.06	1 (2%)	50,67,67	1.24	5 (10%)
6	CYC	z1	101	2	42,46,46	1.06	1 (2%)	50,67,67	1.32	6 (12%)
6	CYC	x2	101	2	42,46,46	1.05	1 (2%)	50,67,67	1.39	5 (10%)
6	CYC	c3	201	1	42,46,46	1.07	1 (2%)	50,67,67	1.37	5 (10%)
6	CYC	v2	201	2	42,46,46	1.05	1 (2%)	50,67,67	1.38	6 (12%)
6	CYC	N2	201	2	42,46,46	1.07	1 (2%)	50,67,67	1.21	5 (10%)
6	CYC	Q2	201	1	42,46,46	1.05	1 (2%)	50,67,67	1.37	7 (14%)
6	CYC	J1	201	2	42,46,46	1.10	1 (2%)	50,67,67	1.38	5 (10%)
6	CYC	Z3	201	2	42,46,46	1.05	1 (2%)	50,67,67	1.37	5 (10%)

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
6	CYC	K2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	C2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	s2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	Y3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	b2	201	2	-	11/25/74/74	0/4/4/4
6	CYC	V2	201	2	-	10/25/74/74	0/4/4/4
6	CYC	q2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	j3	1202	2	-	9/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	CYC	M3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	j3	1204	2	-	9/25/74/74	0/4/4/4
6	CYC	H1	201	1	-	6/25/74/74	0/4/4/4
6	CYC	E2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	u2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	U2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	V3	201	2	-	8/25/74/74	0/4/4/4
6	CYC	L1	201	3	-	6/25/74/74	0/4/4/4
6	CYC	j3	1203	2	-	8/25/74/74	0/4/4/4
6	CYC	p2	201	2	-	10/25/74/74	0/4/4/4
6	CYC	H3	201	2	-	10/25/74/74	0/4/4/4
6	CYC	R3	201	2	-	10/25/74/74	0/4/4/4
6	CYC	T2	201	2	-	10/25/74/74	0/4/4/4
6	CYC	F3	201	2	-	10/25/74/74	0/4/4/4
6	CYC	c2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	a3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	G2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	F2	201	2	-	10/25/74/74	0/4/4/4
6	CYC	G3	201	-	-	6/25/74/74	0/4/4/4
6	CYC	k3	1202	2	-	6/25/74/74	0/4/4/4
6	CYC	B2	201	2	-	10/25/74/74	0/4/4/4
6	CYC	Y2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	E3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	k3	1207	-	-	6/25/74/74	0/4/4/4
6	CYC	I2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	M2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	j3	1206	-	-	6/25/74/74	0/4/4/4
6	CYC	d3	201	2	-	10/25/74/74	0/4/4/4
6	CYC	R2	201	2	-	10/25/74/74	0/4/4/4
6	CYC	k3	1206	2	-	8/25/74/74	0/4/4/4
6	CYC	A2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	P2	201	2	-	10/25/74/74	0/4/4/4
6	CYC	O3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	a2	201	1	-	6/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	CYC	N3	201	2	-	10/25/74/74	0/4/4/4
6	CYC	z3	101	2	-	10/25/74/74	0/4/4/4
6	CYC	j3	1201	2	-	10/25/74/74	0/4/4/4
6	CYC	A3	201	-	-	6/25/74/74	0/4/4/4
6	CYC	K1	201	3	-	6/25/74/74	0/4/4/4
6	CYC	H2	201	2	-	8/25/74/74	0/4/4/4
6	CYC	O2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	Q3	201	1	-	9/25/74/74	0/4/4/4
6	CYC	e2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	k3	1203	2	-	8/25/74/74	0/4/4/4
6	CYC	I3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	W3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	j3	1205	2	-	10/25/74/74	0/4/4/4
6	CYC	k3	1201	2	-	8/25/74/74	0/4/4/4
6	CYC	C3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	A1	201	1	-	6/25/74/74	0/4/4/4
6	CYC	X3	201	2	-	10/25/74/74	0/4/4/4
6	CYC	h3	201	2	-	10/25/74/74	0/4/4/4
6	CYC	U3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	M1	101	2	-	10/25/74/74	0/4/4/4
6	CYC	X2	201	2	-	10/25/74/74	0/4/4/4
6	CYC	F1	201	2	-	8/25/74/74	0/4/4/4
6	CYC	g2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	S2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	T3	201	2	-	10/25/74/74	0/4/4/4
6	CYC	e3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	W2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	h2	201	2	-	10/25/74/74	0/4/4/4
6	CYC	m2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	i2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	k3	1205	2	-	10/25/74/74	0/4/4/4
6	CYC	K3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	k2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	C1	201	1	-	6/25/74/74	0/4/4/4

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	CYC	k3	1204	2	-	10/25/74/74	0/4/4/4
6	CYC	E1	201	1	-	6/25/74/74	0/4/4/4
6	CYC	J3	201	2	-	10/25/74/74	0/4/4/4
6	CYC	o2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	S3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	L2	201	2	-	10/25/74/74	0/4/4/4
6	CYC	D3	201	2	-	12/25/74/74	0/4/4/4
6	CYC	L3	201	2	-	10/25/74/74	0/4/4/4
6	CYC	f3	201	2	-	10/25/74/74	0/4/4/4
6	CYC	y2	101	2	-	10/25/74/74	0/4/4/4
6	CYC	g3	201	2	-	11/25/74/74	0/4/4/4
6	CYC	b3	201	2	-	10/25/74/74	0/4/4/4
6	CYC	z1	101	2	-	10/25/74/74	0/4/4/4
6	CYC	x2	101	2	-	10/25/74/74	0/4/4/4
6	CYC	c3	201	1	-	6/25/74/74	0/4/4/4
6	CYC	v2	201	2	-	11/25/74/74	0/4/4/4
6	CYC	N2	201	2	-	10/25/74/74	0/4/4/4
6	CYC	Q2	201	1	-	6/25/74/74	0/4/4/4
6	CYC	J1	201	2	-	10/25/74/74	0/4/4/4
6	CYC	Z3	201	2	-	10/25/74/74	0/4/4/4

All (104) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	k3	1207	CYC	CHA-C1A	7.20	1.41	1.35
6	j3	1206	CYC	CHA-C1A	6.80	1.40	1.35
6	y2	101	CYC	CHA-C1A	5.46	1.39	1.35
6	j3	1204	CYC	CHA-C1A	5.39	1.39	1.35
6	X2	201	CYC	CHA-C1A	5.27	1.39	1.35
6	F1	201	CYC	CHA-C1A	5.26	1.39	1.35
6	R2	201	CYC	CHA-C1A	5.23	1.39	1.35
6	A3	201	CYC	CHA-C1A	5.23	1.39	1.35
6	G3	201	CYC	CHA-C1A	5.19	1.39	1.35
6	z3	101	CYC	CHA-C1A	5.19	1.39	1.35
6	k3	1204	CYC	CHA-C1A	5.19	1.39	1.35
6	B2	201	CYC	CHA-C1A	5.18	1.39	1.35
6	m2	201	CYC	CHA-C1A	5.15	1.39	1.35
6	L3	201	CYC	CHA-C1A	5.13	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	K1	201	CYC	CHA-C1A	5.13	1.39	1.35
6	J1	201	CYC	CHA-C1A	5.08	1.39	1.35
6	H1	201	CYC	CHA-C1A	5.07	1.39	1.35
6	L2	201	CYC	CHA-C1A	5.07	1.39	1.35
6	C1	201	CYC	CHA-C1A	5.05	1.39	1.35
6	h2	201	CYC	CHA-C1A	5.02	1.39	1.35
6	a2	201	CYC	CHA-C1A	5.02	1.39	1.35
6	L1	201	CYC	CHA-C1A	4.99	1.39	1.35
6	h3	201	CYC	CHA-C1A	4.99	1.39	1.35
6	E3	201	CYC	CHA-C1A	4.98	1.39	1.35
6	F3	201	CYC	CHA-C1A	4.97	1.39	1.35
6	c2	201	CYC	CHA-C1A	4.95	1.39	1.35
6	J3	201	CYC	CHA-C1A	4.91	1.39	1.35
6	c3	201	CYC	CHA-C1A	4.91	1.39	1.35
6	i2	201	CYC	CHA-C1A	4.89	1.39	1.35
6	z1	101	CYC	CHA-C1A	4.88	1.39	1.35
6	F2	201	CYC	CHA-C1A	4.88	1.39	1.35
6	W2	201	CYC	CHA-C1A	4.87	1.39	1.35
6	Y2	201	CYC	CHA-C1A	4.87	1.39	1.35
6	M1	101	CYC	CHA-C1A	4.85	1.39	1.35
6	K3	201	CYC	CHA-C1A	4.85	1.39	1.35
6	A2	201	CYC	CHA-C1A	4.84	1.39	1.35
6	M2	201	CYC	CHA-C1A	4.81	1.39	1.35
6	E1	201	CYC	CHA-C1A	4.81	1.39	1.35
6	Q2	201	CYC	CHA-C1A	4.81	1.39	1.35
6	T2	201	CYC	CHA-C1A	4.81	1.39	1.35
6	j3	1205	CYC	CHA-C1A	4.81	1.39	1.35
6	G2	201	CYC	CHA-C1A	4.80	1.39	1.35
6	T3	201	CYC	CHA-C1A	4.78	1.39	1.35
6	x2	101	CYC	CHA-C1A	4.78	1.39	1.35
6	N2	201	CYC	CHA-C1A	4.78	1.39	1.35
6	g3	201	CYC	CHA-C1A	4.77	1.39	1.35
6	f3	201	CYC	CHA-C1A	4.77	1.39	1.35
6	U2	201	CYC	CHA-C1A	4.76	1.39	1.35
6	v2	201	CYC	CHA-C1A	4.76	1.39	1.35
6	V3	201	CYC	CHA-C1A	4.75	1.39	1.35
6	d3	201	CYC	CHA-C1A	4.74	1.39	1.35
6	g2	201	CYC	CHA-C1A	4.74	1.39	1.35
6	k3	1203	CYC	CHA-C1A	4.74	1.39	1.35
6	H2	201	CYC	CHA-C1A	4.73	1.39	1.35
6	Z3	201	CYC	CHA-C1A	4.73	1.39	1.35
6	e2	201	CYC	CHA-C1A	4.72	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H3	201	CYC	CHA-C1A	4.72	1.39	1.35
6	Y3	201	CYC	CHA-C1A	4.71	1.39	1.35
6	I3	201	CYC	CHA-C1A	4.71	1.39	1.35
6	b3	201	CYC	CHA-C1A	4.71	1.39	1.35
6	N3	201	CYC	CHA-C1A	4.67	1.39	1.35
6	O2	201	CYC	CHA-C1A	4.67	1.39	1.35
6	k2	201	CYC	CHA-C1A	4.67	1.39	1.35
6	A1	201	CYC	CHA-C1A	4.66	1.39	1.35
6	Q3	201	CYC	CHA-C1A	4.64	1.39	1.35
6	U3	201	CYC	CHA-C1A	4.64	1.39	1.35
6	I2	201	CYC	CHA-C1A	4.64	1.39	1.35
6	p2	201	CYC	CHA-C1A	4.63	1.39	1.35
6	C3	201	CYC	CHA-C1A	4.63	1.39	1.35
6	s2	201	CYC	CHA-C1A	4.62	1.39	1.35
6	b2	201	CYC	CHA-C1A	4.61	1.39	1.35
6	C2	201	CYC	CHA-C1A	4.61	1.39	1.35
6	S2	201	CYC	CHA-C1A	4.60	1.39	1.35
6	j3	1201	CYC	CHA-C1A	4.60	1.39	1.35
6	k3	1206	CYC	CHA-C1A	4.59	1.39	1.35
6	O3	201	CYC	CHA-C1A	4.58	1.38	1.35
6	e3	201	CYC	CHA-C1A	4.58	1.38	1.35
6	E2	201	CYC	CHA-C1A	4.58	1.38	1.35
6	P2	201	CYC	CHA-C1A	4.57	1.38	1.35
6	k3	1202	CYC	CHA-C1A	4.57	1.38	1.35
6	D3	201	CYC	CHA-C1A	4.53	1.38	1.35
6	K2	201	CYC	CHA-C1A	4.53	1.38	1.35
6	X3	201	CYC	CHA-C1A	4.52	1.38	1.35
6	R3	201	CYC	CHA-C1A	4.50	1.38	1.35
6	j3	1202	CYC	CHA-C1A	4.50	1.38	1.35
6	V2	201	CYC	CHA-C1A	4.50	1.38	1.35
6	M3	201	CYC	CHA-C1A	4.49	1.38	1.35
6	S3	201	CYC	CHA-C1A	4.48	1.38	1.35
6	k3	1205	CYC	CHA-C1A	4.47	1.38	1.35
6	a3	201	CYC	CHA-C1A	4.46	1.38	1.35
6	W3	201	CYC	CHA-C1A	4.43	1.38	1.35
6	q2	201	CYC	CHA-C1A	4.38	1.38	1.35
6	u2	201	CYC	CHA-C1A	4.34	1.38	1.35
6	j3	1203	CYC	CHA-C1A	4.34	1.38	1.35
6	o2	201	CYC	CHA-C1A	4.15	1.38	1.35
6	j3	1202	CYC	C1B-C2B	-3.37	1.39	1.45
6	k3	1203	CYC	C1B-C2B	-2.86	1.40	1.45
6	k3	1201	CYC	C1B-C2B	-2.71	1.40	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	j3	1203	CYC	C1B-C2B	-2.47	1.40	1.45
6	k3	1207	CYC	C1B-NB	2.18	1.41	1.37
6	z3	101	CYC	C1B-C2B	-2.16	1.41	1.45
6	k3	1201	CYC	CHD-C4C	2.15	1.43	1.38
6	T3	201	CYC	C1B-C2B	-2.05	1.41	1.45
6	j3	1202	CYC	C1B-NB	2.02	1.41	1.37

All (525) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E1	201	CYC	C1B-CHB-C4A	5.87	142.41	128.08
6	A1	201	CYC	C1B-CHB-C4A	5.84	142.34	128.08
6	C1	201	CYC	C1B-CHB-C4A	5.83	142.33	128.08
6	d3	201	CYC	C1B-CHB-C4A	5.81	142.29	128.08
6	S3	201	CYC	C1B-CHB-C4A	5.81	142.28	128.08
6	g2	201	CYC	C1B-CHB-C4A	5.81	142.27	128.08
6	Q3	201	CYC	C1B-CHB-C4A	5.80	142.26	128.08
6	U2	201	CYC	C1B-CHB-C4A	5.80	142.25	128.08
6	H1	201	CYC	C1B-CHB-C4A	5.80	142.25	128.08
6	M3	201	CYC	C1B-CHB-C4A	5.80	142.24	128.08
6	J3	201	CYC	C1B-CHB-C4A	5.79	142.23	128.08
6	o2	201	CYC	C1B-CHB-C4A	5.79	142.22	128.08
6	E2	201	CYC	C1B-CHB-C4A	5.78	142.21	128.08
6	U3	201	CYC	C1B-CHB-C4A	5.78	142.20	128.08
6	J1	201	CYC	C1B-CHB-C4A	5.78	142.19	128.08
6	Y3	201	CYC	C1B-CHB-C4A	5.78	142.19	128.08
6	W3	201	CYC	C1B-CHB-C4A	5.77	142.19	128.08
6	F1	201	CYC	C1B-CHB-C4A	5.77	142.18	128.08
6	I3	201	CYC	C1B-CHB-C4A	5.77	142.18	128.08
6	a2	201	CYC	C1B-CHB-C4A	5.77	142.17	128.08
6	A2	201	CYC	C1B-CHB-C4A	5.76	142.16	128.08
6	K2	201	CYC	C1B-CHB-C4A	5.76	142.16	128.08
6	D3	201	CYC	C1B-CHB-C4A	5.76	142.16	128.08
6	a3	201	CYC	C1B-CHB-C4A	5.76	142.16	128.08
6	M2	201	CYC	C1B-CHB-C4A	5.76	142.15	128.08
6	Y2	201	CYC	C1B-CHB-C4A	5.75	142.14	128.08
6	P2	201	CYC	C1B-CHB-C4A	5.75	142.13	128.08
6	c2	201	CYC	C1B-CHB-C4A	5.74	142.12	128.08
6	G2	201	CYC	C1B-CHB-C4A	5.74	142.10	128.08
6	e3	201	CYC	C1B-CHB-C4A	5.74	142.09	128.08
6	K1	201	CYC	C1B-CHB-C4A	5.73	142.08	128.08
6	E3	201	CYC	C1B-CHB-C4A	5.73	142.08	128.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	c3	201	CYC	C1B-CHB-C4A	5.73	142.08	128.08
6	O3	201	CYC	C1B-CHB-C4A	5.73	142.08	128.08
6	C3	201	CYC	C1B-CHB-C4A	5.73	142.07	128.08
6	m2	201	CYC	C1B-CHB-C4A	5.72	142.06	128.08
6	K3	201	CYC	C1B-CHB-C4A	5.72	142.06	128.08
6	A3	201	CYC	C1B-CHB-C4A	5.72	142.05	128.08
6	s2	201	CYC	C1B-CHB-C4A	5.72	142.05	128.08
6	k3	1206	CYC	C1B-CHB-C4A	5.70	142.01	128.08
6	u2	201	CYC	C1B-CHB-C4A	5.70	142.01	128.08
6	k2	201	CYC	C1B-CHB-C4A	5.69	141.99	128.08
6	Q2	201	CYC	C1B-CHB-C4A	5.68	141.97	128.08
6	S2	201	CYC	C1B-CHB-C4A	5.67	141.94	128.08
6	k3	1207	CYC	CMB-C2B-C1B	5.65	131.23	124.17
6	C2	201	CYC	C1B-CHB-C4A	5.65	141.88	128.08
6	O2	201	CYC	C1B-CHB-C4A	5.63	141.83	128.08
6	T3	201	CYC	C1B-CHB-C4A	5.62	141.81	128.08
6	I2	201	CYC	C1B-CHB-C4A	5.62	141.81	128.08
6	V3	201	CYC	C1B-CHB-C4A	5.61	141.80	128.08
6	G3	201	CYC	C1B-CHB-C4A	5.60	141.77	128.08
6	q2	201	CYC	C1B-CHB-C4A	5.60	141.76	128.08
6	N3	201	CYC	C1B-CHB-C4A	5.60	141.75	128.08
6	v2	201	CYC	C1B-CHB-C4A	5.58	141.71	128.08
6	B2	201	CYC	C1B-CHB-C4A	5.58	141.71	128.08
6	L1	201	CYC	C1B-CHB-C4A	5.57	141.70	128.08
6	W2	201	CYC	C1B-CHB-C4A	5.57	141.68	128.08
6	i2	201	CYC	C1B-CHB-C4A	5.56	141.67	128.08
6	Z3	201	CYC	C1B-CHB-C4A	5.50	141.52	128.08
6	j3	1203	CYC	C1B-CHB-C4A	5.43	141.34	128.08
6	R2	201	CYC	C1B-CHB-C4A	5.42	141.33	128.08
6	x2	101	CYC	C1B-CHB-C4A	5.41	141.31	128.08
6	V2	201	CYC	C1B-CHB-C4A	5.32	141.08	128.08
6	e2	201	CYC	C1B-CHB-C4A	5.31	141.05	128.08
6	z1	101	CYC	C1B-CHB-C4A	5.26	140.93	128.08
6	k3	1203	CYC	C1B-CHB-C4A	5.23	140.87	128.08
6	k3	1207	CYC	C1B-CHB-C4A	5.21	140.81	128.08
6	p2	201	CYC	C1B-CHB-C4A	5.20	140.78	128.08
6	y2	101	CYC	C1B-CHB-C4A	5.20	140.78	128.08
6	k3	1202	CYC	C1B-CHB-C4A	5.19	140.77	128.08
6	F3	201	CYC	C1B-CHB-C4A	5.09	140.51	128.08
6	L3	201	CYC	C1B-CHB-C4A	5.08	140.50	128.08
6	j3	1204	CYC	C1B-CHB-C4A	5.07	140.47	128.08
6	j3	1202	CYC	C1B-CHB-C4A	5.06	140.45	128.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	X2	201	CYC	C1B-CHB-C4A	5.03	140.37	128.08
6	X3	201	CYC	C1B-CHB-C4A	4.88	140.00	128.08
6	k3	1201	CYC	C1B-CHB-C4A	4.84	139.92	128.08
6	j3	1206	CYC	CMB-C2B-C1B	4.84	130.21	124.17
6	h3	201	CYC	C1B-CHB-C4A	4.78	139.77	128.08
6	H2	201	CYC	C1B-CHB-C4A	4.70	139.56	128.08
6	L2	201	CYC	C1B-CHB-C4A	4.62	139.37	128.08
6	g3	201	CYC	C1B-CHB-C4A	4.59	139.29	128.08
6	M1	101	CYC	C1B-CHB-C4A	4.53	139.15	128.08
6	f3	201	CYC	C1B-CHB-C4A	4.48	139.02	128.08
6	F2	201	CYC	C1B-CHB-C4A	4.47	139.01	128.08
6	R3	201	CYC	C1B-CHB-C4A	4.46	138.99	128.08
6	j3	1205	CYC	C1B-CHB-C4A	4.43	138.91	128.08
6	b3	201	CYC	C1B-CHB-C4A	4.40	138.83	128.08
6	h2	201	CYC	C1B-CHB-C4A	4.27	138.51	128.08
6	k3	1205	CYC	C1B-CHB-C4A	4.24	138.45	128.08
6	H3	201	CYC	C1B-CHB-C4A	4.08	138.04	128.08
6	N2	201	CYC	C1B-CHB-C4A	4.04	137.95	128.08
6	T2	201	CYC	C1B-CHB-C4A	4.01	137.88	128.08
6	b2	201	CYC	C1B-CHB-C4A	3.98	137.81	128.08
6	x2	101	CYC	C4D-CHA-C1A	3.93	133.50	128.81
6	j3	1201	CYC	C1B-CHB-C4A	3.67	137.04	128.08
6	k3	1203	CYC	CHB-C1B-C2B	-3.64	119.74	126.95
6	j3	1202	CYC	CHB-C1B-C2B	-3.55	119.91	126.95
6	k3	1201	CYC	CMB-C2B-C1B	3.48	128.51	124.17
6	k3	1201	CYC	CHA-C1A-NA	-3.48	124.00	128.83
6	k3	1203	CYC	CHA-C1A-NA	-3.21	124.37	128.83
6	y2	101	CYC	C4D-CHA-C1A	3.19	132.62	128.81
6	P2	201	CYC	CHA-C1A-NA	-3.18	124.41	128.83
6	k3	1207	CYC	CHB-C1B-C2B	-3.13	120.75	126.95
6	N3	201	CYC	CHA-C1A-NA	-3.07	124.57	128.83
6	X2	201	CYC	CHA-C1A-NA	-3.06	124.59	128.83
6	M2	201	CYC	CHA-C1A-NA	-3.03	124.62	128.83
6	R2	201	CYC	CHA-C1A-NA	-3.03	124.63	128.83
6	k3	1204	CYC	CHA-C1A-NA	-3.02	124.64	128.83
6	T3	201	CYC	CHA-C1A-NA	-3.02	124.64	128.83
6	D3	201	CYC	CHB-C1B-C2B	-3.00	121.01	126.95
6	Z3	201	CYC	CHA-C1A-NA	-3.00	124.67	128.83
6	j3	1203	CYC	CHA-C1A-NA	-2.98	124.69	128.83
6	X2	201	CYC	CMB-C2B-C1B	2.98	127.89	124.17
6	j3	1205	CYC	CHA-C1A-NA	-2.97	124.70	128.83
6	j3	1205	CYC	CBD-CAD-C3D	2.96	117.68	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	d3	201	CYC	CHA-C1A-NA	-2.95	124.73	128.83
6	J1	201	CYC	CHA-C1A-NA	-2.95	124.73	128.83
6	J3	201	CYC	CHA-C1A-NA	-2.95	124.74	128.83
6	j3	1206	CYC	CHD-C4C-NC	2.94	128.70	125.20
6	L3	201	CYC	CHA-C1A-NA	-2.94	124.75	128.83
6	X3	201	CYC	CHA-C1A-NA	-2.94	124.75	128.83
6	T3	201	CYC	CHB-C1B-C2B	-2.93	121.14	126.95
6	Z3	201	CYC	CMB-C2B-C1B	2.92	127.81	124.17
6	j3	1206	CYC	CHA-C1A-NA	-2.92	124.78	128.83
6	f3	201	CYC	CHA-C1A-NA	-2.91	124.79	128.83
6	V3	201	CYC	CHA-C1A-NA	-2.91	124.79	128.83
6	k3	1202	CYC	CMB-C2B-C1B	2.91	127.80	124.17
6	N3	201	CYC	CHB-C1B-C2B	-2.91	121.19	126.95
6	F1	201	CYC	CHA-C1A-NA	-2.90	124.80	128.83
6	k3	1207	CYC	CHB-C1B-NB	2.90	132.28	126.06
6	T2	201	CYC	CHA-C1A-NA	-2.89	124.81	128.83
6	k3	1207	CYC	CHA-C1A-NA	-2.89	124.82	128.83
6	M3	201	CYC	CMB-C2B-C1B	2.88	127.76	124.17
6	Q3	201	CYC	CHA-C1A-NA	-2.88	124.83	128.83
6	V2	201	CYC	CHA-C1A-NA	-2.87	124.84	128.83
6	S3	201	CYC	CMB-C2B-C1B	2.87	127.75	124.17
6	B2	201	CYC	CHA-C1A-NA	-2.87	124.85	128.83
6	L2	201	CYC	CHA-C1A-NA	-2.87	124.85	128.83
6	k3	1201	CYC	CMA-C3A-C4A	2.87	129.48	125.06
6	H2	201	CYC	CHA-C1A-NA	-2.87	124.85	128.83
6	h2	201	CYC	CHA-C1A-NA	-2.87	124.85	128.83
6	J1	201	CYC	CHB-C1B-C2B	-2.86	121.28	126.95
6	U3	201	CYC	CMB-C2B-C1B	2.86	127.74	124.17
6	O3	201	CYC	CMB-C2B-C1B	2.86	127.74	124.17
6	g3	201	CYC	CHA-C1A-NA	-2.86	124.86	128.83
6	J3	201	CYC	CHB-C1B-C2B	-2.85	121.29	126.95
6	C1	201	CYC	CHA-C1A-NA	-2.85	124.87	128.83
6	G2	201	CYC	CHA-C1A-NA	-2.85	124.87	128.83
6	M3	201	CYC	CHA-C1A-NA	-2.85	124.88	128.83
6	k3	1207	CYC	CHD-C4C-NC	2.85	128.59	125.20
6	j3	1203	CYC	CHB-C1B-C2B	-2.84	121.31	126.95
6	Q3	201	CYC	CHB-C1B-C2B	-2.84	121.32	126.95
6	Y3	201	CYC	CHA-C1A-NA	-2.84	124.89	128.83
6	c3	201	CYC	CHA-C1A-NA	-2.84	124.89	128.83
6	L2	201	CYC	CMB-C2B-C1B	2.83	127.70	124.17
6	H3	201	CYC	CHA-C1A-NA	-2.83	124.90	128.83
6	S3	201	CYC	CHA-C1A-NA	-2.82	124.91	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	c2	201	CYC	CMB-C2B-C1B	2.82	127.68	124.17
6	E2	201	CYC	CHA-C1A-NA	-2.81	124.92	128.83
6	b3	201	CYC	CHA-C1A-NA	-2.81	124.93	128.83
6	M2	201	CYC	CHB-C1B-C2B	-2.80	121.39	126.95
6	R3	201	CYC	CMB-C2B-C1B	2.80	127.67	124.17
6	K2	201	CYC	CHA-C1A-NA	-2.80	124.94	128.83
6	C3	201	CYC	CMB-C2B-C1B	2.80	127.66	124.17
6	d3	201	CYC	CMB-C2B-C1B	2.80	127.66	124.17
6	g2	201	CYC	CHA-C1A-NA	-2.79	124.95	128.83
6	j3	1203	CYC	CMB-C2B-C1B	2.79	127.65	124.17
6	U2	201	CYC	CHA-C1A-NA	-2.79	124.96	128.83
6	I3	201	CYC	CMB-C2B-C1B	2.79	127.65	124.17
6	R3	201	CYC	CHA-C1A-NA	-2.79	124.96	128.83
6	A1	201	CYC	CHB-C1B-C2B	-2.79	121.43	126.95
6	F1	201	CYC	CHB-C1B-C2B	-2.79	121.43	126.95
6	k3	1205	CYC	CHA-C1A-NA	-2.78	124.96	128.83
6	S2	201	CYC	CHB-C1B-C2B	-2.78	121.43	126.95
6	I2	201	CYC	CMB-C2B-C1B	2.78	127.64	124.17
6	K2	201	CYC	CMB-C2B-C1B	2.78	127.64	124.17
6	A2	201	CYC	CHA-C1A-NA	-2.78	124.97	128.83
6	S2	201	CYC	CHA-C1A-NA	-2.78	124.97	128.83
6	F2	201	CYC	CHA-C1A-NA	-2.78	124.97	128.83
6	j3	1206	CYC	C1B-CHB-C4A	2.78	134.86	128.08
6	e3	201	CYC	CHA-C1A-NA	-2.77	124.98	128.83
6	m2	201	CYC	CHA-C1A-NA	-2.77	124.98	128.83
6	H1	201	CYC	CHA-C1A-NA	-2.77	124.98	128.83
6	Y2	201	CYC	CHA-C1A-NA	-2.77	124.98	128.83
6	o2	201	CYC	CHB-C1B-C2B	-2.77	121.47	126.95
6	P2	201	CYC	CHB-C1B-C2B	-2.76	121.47	126.95
6	C1	201	CYC	CHB-C1B-C2B	-2.76	121.47	126.95
6	U3	201	CYC	CHA-C1A-NA	-2.76	125.00	128.83
6	M1	101	CYC	CHA-C1A-NA	-2.76	125.00	128.83
6	u2	201	CYC	CHB-C1B-C2B	-2.76	121.49	126.95
6	v2	201	CYC	CMB-C2B-C1B	2.75	127.60	124.17
6	F3	201	CYC	CHA-C1A-NA	-2.75	125.01	128.83
6	a2	201	CYC	CHA-C1A-NA	-2.75	125.01	128.83
6	L1	201	CYC	CHB-C1B-C2B	-2.75	121.51	126.95
6	A3	201	CYC	CHA-C1A-NA	-2.75	125.02	128.83
6	O3	201	CYC	CHA-C1A-NA	-2.75	125.02	128.83
6	A3	201	CYC	CHB-C1B-C2B	-2.75	121.51	126.95
6	H1	201	CYC	CHB-C1B-C2B	-2.74	121.51	126.95
6	e3	201	CYC	CHB-C1B-C2B	-2.74	121.51	126.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	k3	1206	CYC	CMB-C2B-C1B	2.74	127.59	124.17
6	k3	1204	CYC	CMB-C2B-C1B	2.74	127.59	124.17
6	h3	201	CYC	CMB-C2B-C1B	2.74	127.59	124.17
6	C2	201	CYC	CHA-C1A-NA	-2.74	125.03	128.83
6	X3	201	CYC	CMB-C2B-C1B	2.74	127.58	124.17
6	F2	201	CYC	CMB-C2B-C1B	2.73	127.58	124.17
6	i2	201	CYC	CHA-C1A-NA	-2.73	125.04	128.83
6	A3	201	CYC	CMB-C2B-C1B	2.73	127.58	124.17
6	Y2	201	CYC	CHB-C1B-C2B	-2.73	121.54	126.95
6	G3	201	CYC	CMB-C2B-C1B	2.73	127.57	124.17
6	j3	1201	CYC	CMB-C2B-C1B	2.73	127.57	124.17
6	a3	201	CYC	CHA-C1A-NA	-2.72	125.05	128.83
6	W3	201	CYC	CMB-C2B-C1B	2.72	127.57	124.17
6	Y3	201	CYC	CHB-C1B-C2B	-2.72	121.56	126.95
6	G3	201	CYC	CHA-C1A-NA	-2.72	125.05	128.83
6	d3	201	CYC	CHB-C1B-C2B	-2.72	121.56	126.95
6	u2	201	CYC	CMB-C2B-C1B	2.72	127.56	124.17
6	D3	201	CYC	CHA-C1A-NA	-2.72	125.06	128.83
6	G2	201	CYC	CMB-C2B-C1B	2.72	127.56	124.17
6	I2	201	CYC	CHA-C1A-NA	-2.71	125.06	128.83
6	m2	201	CYC	CHB-C1B-C2B	-2.71	121.57	126.95
6	E2	201	CYC	CMB-C2B-C1B	2.71	127.56	124.17
6	N2	201	CYC	CHA-C1A-NA	-2.71	125.06	128.83
6	a3	201	CYC	CMB-C2B-C1B	2.71	127.55	124.17
6	K1	201	CYC	CHB-C1B-C2B	-2.71	121.58	126.95
6	E1	201	CYC	CHA-C1A-NA	-2.71	125.07	128.83
6	s2	201	CYC	CHB-C1B-C2B	-2.71	121.58	126.95
6	A2	201	CYC	CHB-C1B-C2B	-2.71	121.58	126.95
6	B2	201	CYC	CHB-C1B-C2B	-2.71	121.58	126.95
6	U2	201	CYC	CHB-C1B-C2B	-2.71	121.58	126.95
6	h2	201	CYC	CMB-C2B-C1B	2.71	127.55	124.17
6	A1	201	CYC	CHA-C1A-NA	-2.71	125.07	128.83
6	y2	101	CYC	CMB-C2B-C1B	2.70	127.54	124.17
6	C2	201	CYC	CMB-C2B-C1B	2.70	127.54	124.17
6	q2	201	CYC	CHB-C1B-C2B	-2.70	121.60	126.95
6	M1	101	CYC	CMB-C2B-C1B	2.70	127.54	124.17
6	W3	201	CYC	CHA-C1A-NA	-2.70	125.08	128.83
6	O2	201	CYC	CHA-C1A-NA	-2.70	125.08	128.83
6	W3	201	CYC	CHB-C1B-C2B	-2.70	121.60	126.95
6	A2	201	CYC	CMB-C2B-C1B	2.69	127.53	124.17
6	m2	201	CYC	CMB-C2B-C1B	2.69	127.53	124.17
6	G2	201	CYC	CHB-C1B-C2B	-2.69	121.61	126.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	Q3	201	CYC	CMB-C2B-C1B	2.69	127.53	124.17
6	I3	201	CYC	CHA-C1A-NA	-2.69	125.09	128.83
6	H2	201	CYC	CMB-C2B-C1B	2.69	127.53	124.17
6	T3	201	CYC	CMB-C2B-C1B	2.69	127.53	124.17
6	s2	201	CYC	CHA-C1A-NA	-2.69	125.09	128.83
6	P2	201	CYC	CMB-C2B-C1B	2.69	127.52	124.17
6	Q2	201	CYC	CHA-C1A-NA	-2.69	125.10	128.83
6	R2	201	CYC	CMB-C2B-C1B	2.68	127.52	124.17
6	X3	201	CYC	CHB-C1B-C2B	-2.68	121.63	126.95
6	C3	201	CYC	CHA-C1A-NA	-2.68	125.11	128.83
6	K3	201	CYC	CHB-C1B-C2B	-2.68	121.63	126.95
6	M2	201	CYC	CMB-C2B-C1B	2.68	127.52	124.17
6	k3	1206	CYC	CHB-C1B-C2B	-2.68	121.64	126.95
6	g2	201	CYC	CMB-C2B-C1B	2.68	127.51	124.17
6	a3	201	CYC	CHB-C1B-C2B	-2.68	121.64	126.95
6	o2	201	CYC	CHA-C1A-NA	-2.68	125.11	128.83
6	V3	201	CYC	CMB-C2B-C1B	2.67	127.51	124.17
6	F3	201	CYC	CMB-C2B-C1B	2.67	127.50	124.17
6	j3	1202	CYC	CHA-C1A-NA	-2.67	125.12	128.83
6	e3	201	CYC	CMB-C2B-C1B	2.67	127.50	124.17
6	k2	201	CYC	CHB-C1B-C2B	-2.67	121.66	126.95
6	V3	201	CYC	CHB-C1B-C2B	-2.67	121.67	126.95
6	z1	101	CYC	CHA-C1A-NA	-2.67	125.13	128.83
6	Y3	201	CYC	CMB-C2B-C1B	2.67	127.50	124.17
6	j3	1205	CYC	CMB-C2B-C1B	2.66	127.49	124.17
6	g3	201	CYC	CMB-C2B-C1B	2.66	127.49	124.17
6	s2	201	CYC	CMB-C2B-C1B	2.66	127.49	124.17
6	K3	201	CYC	CMB-C2B-C1B	2.66	127.49	124.17
6	I3	201	CYC	CHB-C1B-C2B	-2.66	121.69	126.95
6	b3	201	CYC	CMB-C2B-C1B	2.66	127.48	124.17
6	g2	201	CYC	CHB-C1B-C2B	-2.65	121.69	126.95
6	k3	1205	CYC	CMB-C2B-C1B	2.65	127.48	124.17
6	C3	201	CYC	CHB-C1B-C2B	-2.65	121.69	126.95
6	S3	201	CYC	CHB-C1B-C2B	-2.65	121.69	126.95
6	e2	201	CYC	CMB-C2B-C1B	2.65	127.48	124.17
6	Q2	201	CYC	CMB-C2B-C1B	2.65	127.48	124.17
6	b2	201	CYC	CMB-C2B-C1B	2.65	127.48	124.17
6	E1	201	CYC	CHB-C1B-C2B	-2.65	121.70	126.95
6	R2	201	CYC	CHB-C1B-C2B	-2.65	121.70	126.95
6	a2	201	CYC	CMB-C2B-C1B	2.65	127.47	124.17
6	c2	201	CYC	CHA-C1A-NA	-2.65	125.16	128.83
6	e2	201	CYC	CHA-C1A-NA	-2.65	125.16	128.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	f3	201	CYC	CMB-C2B-C1B	2.65	127.47	124.17
6	p2	201	CYC	CMB-C2B-C1B	2.64	127.47	124.17
6	C2	201	CYC	CHB-C1B-C2B	-2.64	121.71	126.95
6	S2	201	CYC	CMB-C2B-C1B	2.64	127.47	124.17
6	B2	201	CYC	CMB-C2B-C1B	2.64	127.47	124.17
6	U2	201	CYC	CMB-C2B-C1B	2.64	127.47	124.17
6	I2	201	CYC	CHB-C1B-C2B	-2.64	121.72	126.95
6	E1	201	CYC	CMB-C2B-C1B	2.64	127.46	124.17
6	K2	201	CYC	CHB-C1B-C2B	-2.64	121.72	126.95
6	H3	201	CYC	CMB-C2B-C1B	2.64	127.46	124.17
6	i2	201	CYC	CMB-C2B-C1B	2.64	127.46	124.17
6	c3	201	CYC	CHB-C1B-C2B	-2.64	121.72	126.95
6	E2	201	CYC	CHB-C1B-C2B	-2.64	121.72	126.95
6	O2	201	CYC	CMB-C2B-C1B	2.64	127.46	124.17
6	W2	201	CYC	CHA-C1A-NA	-2.63	125.17	128.83
6	z1	101	CYC	CMB-C2B-C1B	2.63	127.45	124.17
6	W2	201	CYC	CMB-C2B-C1B	2.63	127.45	124.17
6	k2	201	CYC	CHA-C1A-NA	-2.63	125.17	128.83
6	N3	201	CYC	CMB-C2B-C1B	2.63	127.45	124.17
6	G3	201	CYC	CHB-C1B-C2B	-2.63	121.74	126.95
6	K1	201	CYC	CMB-C2B-C1B	2.63	127.45	124.17
6	k2	201	CYC	CMB-C2B-C1B	2.63	127.45	124.17
6	q2	201	CYC	CMB-C2B-C1B	2.62	127.44	124.17
6	M3	201	CYC	CHB-C1B-C2B	-2.62	121.75	126.95
6	F1	201	CYC	CMB-C2B-C1B	2.62	127.44	124.17
6	K1	201	CYC	CHA-C1A-NA	-2.62	125.20	128.83
6	j3	1204	CYC	CHA-C1A-NA	-2.62	125.20	128.83
6	O2	201	CYC	CHB-C1B-C2B	-2.62	121.76	126.95
6	u2	201	CYC	CHA-C1A-NA	-2.61	125.20	128.83
6	V2	201	CYC	CMB-C2B-C1B	2.61	127.42	124.17
6	C1	201	CYC	CMB-C2B-C1B	2.61	127.42	124.17
6	h3	201	CYC	CHA-C1A-NA	-2.61	125.21	128.83
6	O3	201	CYC	CHB-C1B-C2B	-2.60	121.79	126.95
6	k3	1206	CYC	CHA-C1A-NA	-2.60	125.21	128.83
6	c2	201	CYC	CHB-C1B-C2B	-2.60	121.79	126.95
6	k3	1202	CYC	CHA-C1A-NA	-2.60	125.22	128.83
6	a2	201	CYC	CHB-C1B-C2B	-2.60	121.80	126.95
6	H1	201	CYC	CMB-C2B-C1B	2.60	127.41	124.17
6	E3	201	CYC	CHA-C1A-NA	-2.60	125.23	128.83
6	Q2	201	CYC	CHB-C1B-C2B	-2.59	121.81	126.95
6	V2	201	CYC	CHB-C1B-C2B	-2.59	121.81	126.95
6	c3	201	CYC	CMB-C2B-C1B	2.59	127.40	124.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	L3	201	CYC	CMB-C2B-C1B	2.58	127.39	124.17
6	U3	201	CYC	CHB-C1B-C2B	-2.58	121.83	126.95
6	T2	201	CYC	CMB-C2B-C1B	2.58	127.39	124.17
6	E3	201	CYC	CMB-C2B-C1B	2.58	127.38	124.17
6	J3	201	CYC	CMB-C2B-C1B	2.58	127.38	124.17
6	A1	201	CYC	CMB-C2B-C1B	2.58	127.38	124.17
6	N2	201	CYC	CMB-C2B-C1B	2.57	127.38	124.17
6	j3	1202	CYC	CHB-C1B-NB	2.57	131.59	126.06
6	j3	1204	CYC	CHB-C1B-C2B	-2.57	121.85	126.95
6	T2	201	CYC	C2C-C3C-C4C	2.56	105.18	101.34
6	Z3	201	CYC	CHB-C1B-C2B	-2.56	121.88	126.95
6	J1	201	CYC	CMB-C2B-C1B	2.55	127.36	124.17
6	x2	101	CYC	CMA-C3A-C4A	2.55	128.99	125.06
6	b2	201	CYC	CHA-C1A-NA	-2.55	125.29	128.83
6	e2	201	CYC	CHB-C1B-C2B	-2.55	121.90	126.95
6	Y2	201	CYC	CMB-C2B-C1B	2.53	127.33	124.17
6	R3	201	CYC	CHB-C1B-C2B	-2.53	121.93	126.95
6	K3	201	CYC	CHA-C1A-NA	-2.52	125.33	128.83
6	E3	201	CYC	CHB-C1B-C2B	-2.52	121.96	126.95
6	j3	1203	CYC	C2C-C3C-C4C	2.51	105.09	101.34
6	j3	1201	CYC	CHA-C1A-NA	-2.50	125.35	128.83
6	j3	1202	CYC	CMB-C2B-C1B	2.50	127.29	124.17
6	v2	201	CYC	CHB-C1B-C2B	-2.50	122.00	126.95
6	H2	201	CYC	CHB-C1B-C2B	-2.49	122.00	126.95
6	o2	201	CYC	CMB-C2B-C1B	2.49	127.28	124.17
6	u2	201	CYC	C2C-C3C-C4C	2.49	105.06	101.34
6	o2	201	CYC	C2C-C3C-C4C	2.48	105.06	101.34
6	j3	1204	CYC	CMB-C2B-C1B	2.48	127.27	124.17
6	W2	201	CYC	CHB-C1B-C2B	-2.48	122.03	126.95
6	L3	201	CYC	CHB-C1B-C2B	-2.48	122.04	126.95
6	j3	1205	CYC	C2C-C3C-C4C	2.47	105.04	101.34
6	j3	1205	CYC	CHB-C1B-C2B	-2.47	122.06	126.95
6	z1	101	CYC	CHB-C1B-C2B	-2.46	122.07	126.95
6	q2	201	CYC	CHA-C1A-NA	-2.45	125.43	128.83
6	J3	201	CYC	C2C-C3C-C4C	2.45	105.01	101.34
6	k3	1205	CYC	CHB-C1B-C2B	-2.45	122.10	126.95
6	K1	201	CYC	C2C-C3C-C4C	2.45	105.00	101.34
6	Y2	201	CYC	C2C-C3C-C4C	2.44	105.00	101.34
6	F3	201	CYC	CHB-C1B-C2B	-2.44	122.10	126.95
6	p2	201	CYC	CHB-C1B-C2B	-2.44	122.11	126.95
6	z3	101	CYC	C2C-C3C-C4C	2.44	104.99	101.34
6	i2	201	CYC	CHB-C1B-C2B	-2.44	122.12	126.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	k3	1205	CYC	CBD-CAD-C3D	2.43	116.78	112.62
6	k3	1207	CYC	CHB-C4A-NA	-2.43	119.84	124.93
6	k3	1207	CYC	CHB-C4A-C3A	2.43	131.14	124.90
6	X2	201	CYC	C2C-C3C-C4C	2.42	104.97	101.34
6	b2	201	CYC	C2C-C3C-C4C	2.42	104.97	101.34
6	F3	201	CYC	C2C-C3C-C4C	2.42	104.96	101.34
6	K3	201	CYC	C2C-C3C-C4C	2.41	104.95	101.34
6	k3	1205	CYC	C2C-C3C-C4C	2.41	104.95	101.34
6	g3	201	CYC	CHB-C1B-C2B	-2.41	122.17	126.95
6	D3	201	CYC	CMB-C2B-C1B	2.41	127.17	124.17
6	M2	201	CYC	C2C-C3C-C4C	2.41	104.95	101.34
6	D3	201	CYC	C2C-C3C-C4C	2.41	104.95	101.34
6	L2	201	CYC	CHB-C1B-C2B	-2.40	122.19	126.95
6	e2	201	CYC	C2C-C3C-C4C	2.40	104.93	101.34
6	y2	101	CYC	C2C-C3C-C4C	2.40	104.93	101.34
6	f3	201	CYC	C2C-C3C-C4C	2.40	104.93	101.34
6	L1	201	CYC	CMB-C2B-C1B	2.40	127.16	124.17
6	F2	201	CYC	CHB-C1B-C2B	-2.40	122.20	126.95
6	y2	101	CYC	CMA-C3A-C4A	2.39	128.75	125.06
6	c3	201	CYC	C2C-C3C-C4C	2.39	104.92	101.34
6	V2	201	CYC	C2C-C3C-C4C	2.39	104.91	101.34
6	k3	1202	CYC	CMA-C3A-C4A	2.39	128.74	125.06
6	j3	1206	CYC	C2C-C3C-C4C	2.38	104.91	101.34
6	v2	201	CYC	CHA-C1A-NA	-2.38	125.53	128.83
6	f3	201	CYC	CHB-C1B-C2B	-2.38	122.24	126.95
6	z3	101	CYC	CMA-C3A-C4A	2.37	128.72	125.06
6	O2	201	CYC	C2C-C3C-C4C	2.37	104.89	101.34
6	c2	201	CYC	C2C-C3C-C4C	2.37	104.88	101.34
6	S3	201	CYC	C2C-C3C-C4C	2.37	104.88	101.34
6	p2	201	CYC	CHA-C1A-NA	-2.37	125.55	128.83
6	M3	201	CYC	C2C-C3C-C4C	2.36	104.88	101.34
6	b3	201	CYC	CHB-C1B-C2B	-2.36	122.28	126.95
6	h3	201	CYC	CHB-C1B-C2B	-2.36	122.28	126.95
6	G2	201	CYC	C2C-C3C-C4C	2.36	104.87	101.34
6	i2	201	CYC	C2C-C3C-C4C	2.35	104.87	101.34
6	W2	201	CYC	C2C-C3C-C4C	2.35	104.86	101.34
6	q2	201	CYC	C2C-C3C-C4C	2.35	104.86	101.34
6	U2	201	CYC	C2C-C3C-C4C	2.35	104.86	101.34
6	L1	201	CYC	C4D-CHA-C1A	2.35	131.61	128.81
6	C3	201	CYC	C2C-C3C-C4C	2.34	104.84	101.34
6	S2	201	CYC	C2C-C3C-C4C	2.34	104.84	101.34
6	b3	201	CYC	C2C-C3C-C4C	2.34	104.84	101.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	W3	201	CYC	C2C-C3C-C4C	2.34	104.84	101.34
6	P2	201	CYC	C2C-C3C-C4C	2.34	104.84	101.34
6	m2	201	CYC	C2C-C3C-C4C	2.34	104.84	101.34
6	E3	201	CYC	C2C-C3C-C4C	2.33	104.83	101.34
6	H3	201	CYC	CHB-C1B-C2B	-2.33	122.33	126.95
6	M1	101	CYC	CHB-C1B-C2B	-2.33	122.34	126.95
6	X2	201	CYC	CHB-C1B-C2B	-2.33	122.34	126.95
6	v2	201	CYC	C2C-C3C-C4C	2.32	104.82	101.34
6	e3	201	CYC	C2C-C3C-C4C	2.32	104.81	101.34
6	A2	201	CYC	C2C-C3C-C4C	2.32	104.81	101.34
6	I3	201	CYC	C2C-C3C-C4C	2.32	104.81	101.34
6	J1	201	CYC	C2C-C3C-C4C	2.31	104.80	101.34
6	k3	1207	CYC	C2C-C3C-C4C	2.31	104.79	101.34
6	z1	101	CYC	C2C-C3C-C4C	2.30	104.79	101.34
6	k3	1202	CYC	C2C-C3C-C4C	2.30	104.79	101.34
6	d3	201	CYC	C2C-C3C-C4C	2.30	104.79	101.34
6	a3	201	CYC	C2C-C3C-C4C	2.30	104.78	101.34
6	Y3	201	CYC	C2C-C3C-C4C	2.30	104.78	101.34
6	Q2	201	CYC	C2C-C3C-C4C	2.29	104.77	101.34
6	R3	201	CYC	C2C-C3C-C4C	2.29	104.77	101.34
6	N2	201	CYC	CHB-C1B-C2B	-2.29	122.42	126.95
6	k3	1204	CYC	C2C-C3C-C4C	2.28	104.76	101.34
6	L2	201	CYC	C2C-C3C-C4C	2.28	104.76	101.34
6	F1	201	CYC	C2C-C3C-C4C	2.28	104.75	101.34
6	k3	1206	CYC	C2C-C3C-C4C	2.28	104.75	101.34
6	k3	1203	CYC	CMB-C2B-C1B	2.28	127.01	124.17
6	M1	101	CYC	C2C-C3C-C4C	2.28	104.75	101.34
6	j3	1202	CYC	C1B-NB-C4B	-2.28	107.77	110.67
6	L3	201	CYC	C2C-C3C-C4C	2.28	104.75	101.34
6	k3	1201	CYC	C2C-C3C-C4C	2.28	104.75	101.34
6	Q3	201	CYC	C2C-C3C-C4C	2.27	104.74	101.34
6	p2	201	CYC	C2C-C3C-C4C	2.27	104.74	101.34
6	L1	201	CYC	C2C-C3C-C4C	2.27	104.74	101.34
6	E2	201	CYC	C2C-C3C-C4C	2.27	104.74	101.34
6	R2	201	CYC	C2C-C3C-C4C	2.27	104.74	101.34
6	a2	201	CYC	C2C-C3C-C4C	2.27	104.74	101.34
6	p2	201	CYC	CMA-C3A-C4A	2.26	128.55	125.06
6	Z3	201	CYC	C2C-C3C-C4C	2.26	104.73	101.34
6	T2	201	CYC	CHB-C1B-C2B	-2.26	122.47	126.95
6	g2	201	CYC	C2C-C3C-C4C	2.26	104.73	101.34
6	I2	201	CYC	C2C-C3C-C4C	2.26	104.72	101.34
6	H3	201	CYC	C2C-C3C-C4C	2.26	104.72	101.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	A3	201	CYC	CHD-C4C-NC	2.25	127.88	125.20
6	L3	201	CYC	CHD-C4C-NC	2.25	127.88	125.20
6	G3	201	CYC	CHD-C4C-NC	2.25	127.88	125.20
6	s2	201	CYC	C2C-C3C-C4C	2.24	104.70	101.34
6	x2	101	CYC	C2C-C3C-C4C	2.24	104.69	101.34
6	k3	1207	CYC	CMB-C2B-C3B	-2.24	120.05	126.12
6	j3	1202	CYC	C3B-C4B-NB	-2.23	104.97	106.78
6	j3	1201	CYC	C2C-C3C-C4C	2.23	104.68	101.34
6	v2	201	CYC	CMA-C3A-C4A	2.23	128.50	125.06
6	k3	1202	CYC	CHB-C1B-C2B	-2.23	122.53	126.95
6	y2	101	CYC	CHB-C1B-C2B	-2.23	122.53	126.95
6	N3	201	CYC	C2C-C3C-C4C	2.23	104.67	101.34
6	k3	1203	CYC	C2C-C3C-C4C	2.22	104.67	101.34
6	C1	201	CYC	C2C-C3C-C4C	2.22	104.67	101.34
6	z3	101	CYC	C1B-CHB-C4A	2.22	133.50	128.08
6	N2	201	CYC	C2C-C3C-C4C	2.22	104.66	101.34
6	X3	201	CYC	C2C-C3C-C4C	2.22	104.66	101.34
6	h3	201	CYC	CHD-C4C-NC	2.20	127.82	125.20
6	L1	201	CYC	CHA-C1A-NA	-2.19	125.78	128.83
6	h2	201	CYC	CHB-C1B-C2B	-2.19	122.61	126.95
6	b2	201	CYC	CHB-C1B-C2B	-2.19	122.62	126.95
6	H1	201	CYC	C2C-C3C-C4C	2.18	104.61	101.34
6	O3	201	CYC	C2C-C3C-C4C	2.18	104.61	101.34
6	K2	201	CYC	C2C-C3C-C4C	2.18	104.60	101.34
6	j3	1202	CYC	C2C-C3C-C4C	2.18	104.60	101.34
6	j3	1204	CYC	C4D-CHA-C1A	2.17	131.40	128.81
6	T3	201	CYC	C2C-C3C-C4C	2.17	104.58	101.34
6	k3	1203	CYC	CHB-C1B-NB	2.16	130.69	126.06
6	H2	201	CYC	CHD-C4C-NC	2.15	127.76	125.20
6	E1	201	CYC	C2C-C3C-C4C	2.15	104.55	101.34
6	z3	101	CYC	CHB-C1B-C2B	-2.14	122.71	126.95
6	j3	1206	CYC	CHB-C1B-C2B	-2.14	122.71	126.95
6	F2	201	CYC	C2C-C3C-C4C	2.14	104.54	101.34
6	A1	201	CYC	C2C-C3C-C4C	2.13	104.53	101.34
6	j3	1202	CYC	CAB-C3B-C2B	2.13	131.17	127.53
6	q2	201	CYC	CMA-C3A-C4A	2.11	128.32	125.06
6	U3	201	CYC	C2C-C3C-C4C	2.11	104.50	101.34
6	g3	201	CYC	CHD-C4C-NC	2.11	127.71	125.20
6	V2	201	CYC	CMA-C3A-C4A	2.10	128.30	125.06
6	j3	1204	CYC	CMA-C3A-C4A	2.10	128.29	125.06
6	z1	101	CYC	CMA-C3A-C4A	2.10	128.29	125.06
6	k3	1207	CYC	C4D-CHA-C1A	2.10	131.31	128.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	x2	101	CYC	CMB-C2B-C1B	2.09	126.78	124.17
6	j3	1206	CYC	CMA-C3A-C4A	2.08	128.27	125.06
6	j3	1201	CYC	CHB-C1B-C2B	-2.08	122.82	126.95
6	F3	201	CYC	CMA-C3A-C4A	2.08	128.27	125.06
6	B2	201	CYC	CHD-C4C-NC	2.07	127.67	125.20
6	p2	201	CYC	C4D-CHA-C1A	2.07	131.28	128.81
6	Q2	201	CYC	CHD-C4C-NC	2.07	127.67	125.20
6	E3	201	CYC	CMA-C3A-C4A	2.07	128.25	125.06
6	O3	201	CYC	CMA-C3A-C4A	2.07	128.25	125.06
6	W3	201	CYC	CHD-C4C-NC	2.06	127.65	125.20
6	K3	201	CYC	CMA-C3A-C4A	2.05	128.23	125.06
6	L3	201	CYC	CMA-C3A-C4A	2.05	128.22	125.06
6	W2	201	CYC	CMA-C3A-C4A	2.05	128.22	125.06
6	j3	1203	CYC	CMA-C3A-C4A	2.05	128.22	125.06
6	U3	201	CYC	CMA-C3A-C4A	2.04	128.21	125.06
6	W3	201	CYC	CMA-C3A-C4A	2.04	128.21	125.06
6	k3	1203	CYC	CHD-C4C-NC	2.04	127.63	125.20
6	k3	1207	CYC	CMA-C3A-C4A	2.04	128.20	125.06
6	C3	201	CYC	CMA-C3A-C4A	2.04	128.20	125.06
6	L1	201	CYC	CMA-C3A-C4A	2.04	128.20	125.06
6	k2	201	CYC	CMA-C3A-C4A	2.03	128.20	125.06
6	K2	201	CYC	CMA-C3A-C4A	2.03	128.18	125.06
6	z3	101	CYC	CHA-C1A-NA	-2.02	126.03	128.83
6	g3	201	CYC	C2C-C3C-C4C	2.02	104.36	101.34
6	o2	201	CYC	CMA-C3A-C4A	2.01	128.17	125.06
6	V3	201	CYC	C2C-C3C-C4C	2.01	104.36	101.34
6	W2	201	CYC	CHD-C4C-NC	2.01	127.60	125.20
6	Q2	201	CYC	CMA-C3A-C4A	2.01	128.16	125.06
6	E3	201	CYC	CHD-C4C-NC	2.01	127.59	125.20
6	k3	1206	CYC	CMA-C3A-C4A	2.01	128.15	125.06
6	U2	201	CYC	CMA-C3A-C4A	2.00	128.15	125.06

There are no chirality outliers.

All (756) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A1	201	CYC	NA-C4A-CHB-C1B
6	A1	201	CYC	C3A-C4A-CHB-C1B
6	A1	201	CYC	ND-C1D-CHD-C4C
6	A1	201	CYC	C2D-C1D-CHD-C4C
6	C1	201	CYC	NA-C4A-CHB-C1B
6	C1	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
6	C1	201	CYC	ND-C1D-CHD-C4C
6	C1	201	CYC	C2D-C1D-CHD-C4C
6	F1	201	CYC	NA-C4A-CHB-C1B
6	F1	201	CYC	C3A-C4A-CHB-C1B
6	F1	201	CYC	C4B-C3B-CAB-CBB
6	F1	201	CYC	ND-C1D-CHD-C4C
6	F1	201	CYC	C2D-C1D-CHD-C4C
6	E1	201	CYC	NA-C4A-CHB-C1B
6	E1	201	CYC	C3A-C4A-CHB-C1B
6	E1	201	CYC	ND-C1D-CHD-C4C
6	E1	201	CYC	C2D-C1D-CHD-C4C
6	H1	201	CYC	NA-C4A-CHB-C1B
6	H1	201	CYC	C3A-C4A-CHB-C1B
6	H1	201	CYC	ND-C1D-CHD-C4C
6	H1	201	CYC	C2D-C1D-CHD-C4C
6	J1	201	CYC	NA-C4A-CHB-C1B
6	J1	201	CYC	C3A-C4A-CHB-C1B
6	J1	201	CYC	C4B-C3B-CAB-CBB
6	J1	201	CYC	ND-C1D-CHD-C4C
6	J1	201	CYC	C2D-C1D-CHD-C4C
6	K1	201	CYC	C3A-C4A-CHB-C1B
6	K1	201	CYC	ND-C1D-CHD-C4C
6	K1	201	CYC	C2D-C1D-CHD-C4C
6	L1	201	CYC	C3A-C4A-CHB-C1B
6	L1	201	CYC	ND-C1D-CHD-C4C
6	L1	201	CYC	C2D-C1D-CHD-C4C
6	z1	101	CYC	C4B-C3B-CAB-CBB
6	z1	101	CYC	ND-C1D-CHD-C4C
6	z1	101	CYC	C2D-C1D-CHD-C4C
6	M1	101	CYC	C4B-C3B-CAB-CBB
6	M1	101	CYC	ND-C1D-CHD-C4C
6	M1	101	CYC	C2D-C1D-CHD-C4C
6	A2	201	CYC	C3A-C4A-CHB-C1B
6	A2	201	CYC	ND-C1D-CHD-C4C
6	A2	201	CYC	C2D-C1D-CHD-C4C
6	B2	201	CYC	C4B-C3B-CAB-CBB
6	B2	201	CYC	ND-C1D-CHD-C4C
6	B2	201	CYC	C2D-C1D-CHD-C4C
6	C2	201	CYC	ND-C1D-CHD-C4C
6	C2	201	CYC	C2D-C1D-CHD-C4C
6	E2	201	CYC	NA-C4A-CHB-C1B
6	E2	201	CYC	C3A-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
6	E2	201	CYC	ND-C1D-CHD-C4C
6	E2	201	CYC	C2D-C1D-CHD-C4C
6	F2	201	CYC	C4B-C3B-CAB-CBB
6	F2	201	CYC	ND-C1D-CHD-C4C
6	F2	201	CYC	C2D-C1D-CHD-C4C
6	G2	201	CYC	C3A-C4A-CHB-C1B
6	G2	201	CYC	ND-C1D-CHD-C4C
6	G2	201	CYC	C2D-C1D-CHD-C4C
6	H2	201	CYC	ND-C1D-CHD-C4C
6	H2	201	CYC	C2D-C1D-CHD-C4C
6	I2	201	CYC	ND-C1D-CHD-C4C
6	I2	201	CYC	C2D-C1D-CHD-C4C
6	K2	201	CYC	NA-C4A-CHB-C1B
6	K2	201	CYC	C3A-C4A-CHB-C1B
6	K2	201	CYC	ND-C1D-CHD-C4C
6	K2	201	CYC	C2D-C1D-CHD-C4C
6	L2	201	CYC	C4B-C3B-CAB-CBB
6	L2	201	CYC	ND-C1D-CHD-C4C
6	L2	201	CYC	C2D-C1D-CHD-C4C
6	M2	201	CYC	ND-C1D-CHD-C4C
6	M2	201	CYC	C2D-C1D-CHD-C4C
6	N2	201	CYC	C4B-C3B-CAB-CBB
6	N2	201	CYC	ND-C1D-CHD-C4C
6	N2	201	CYC	C2D-C1D-CHD-C4C
6	O2	201	CYC	C3A-C4A-CHB-C1B
6	O2	201	CYC	ND-C1D-CHD-C4C
6	O2	201	CYC	C2D-C1D-CHD-C4C
6	P2	201	CYC	C4B-C3B-CAB-CBB
6	P2	201	CYC	ND-C1D-CHD-C4C
6	P2	201	CYC	C2D-C1D-CHD-C4C
6	Q2	201	CYC	C3A-C4A-CHB-C1B
6	Q2	201	CYC	ND-C1D-CHD-C4C
6	Q2	201	CYC	C2D-C1D-CHD-C4C
6	R2	201	CYC	C4B-C3B-CAB-CBB
6	R2	201	CYC	ND-C1D-CHD-C4C
6	R2	201	CYC	C2D-C1D-CHD-C4C
6	S2	201	CYC	ND-C1D-CHD-C4C
6	S2	201	CYC	C2D-C1D-CHD-C4C
6	T2	201	CYC	C4B-C3B-CAB-CBB
6	T2	201	CYC	ND-C1D-CHD-C4C
6	T2	201	CYC	C2D-C1D-CHD-C4C
6	U2	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
6	U2	201	CYC	C3A-C4A-CHB-C1B
6	U2	201	CYC	ND-C1D-CHD-C4C
6	U2	201	CYC	C2D-C1D-CHD-C4C
6	V2	201	CYC	C4B-C3B-CAB-CBB
6	V2	201	CYC	ND-C1D-CHD-C4C
6	V2	201	CYC	C2D-C1D-CHD-C4C
6	W2	201	CYC	ND-C1D-CHD-C4C
6	W2	201	CYC	C2D-C1D-CHD-C4C
6	X2	201	CYC	C4B-C3B-CAB-CBB
6	X2	201	CYC	ND-C1D-CHD-C4C
6	X2	201	CYC	C2D-C1D-CHD-C4C
6	Y2	201	CYC	C3A-C4A-CHB-C1B
6	Y2	201	CYC	ND-C1D-CHD-C4C
6	Y2	201	CYC	C2D-C1D-CHD-C4C
6	a2	201	CYC	NA-C4A-CHB-C1B
6	a2	201	CYC	C3A-C4A-CHB-C1B
6	a2	201	CYC	ND-C1D-CHD-C4C
6	a2	201	CYC	C2D-C1D-CHD-C4C
6	b2	201	CYC	C4B-C3B-CAB-CBB
6	b2	201	CYC	C2C-C3C-CAC-CBC
6	b2	201	CYC	ND-C1D-CHD-C4C
6	b2	201	CYC	C2D-C1D-CHD-C4C
6	c2	201	CYC	C3A-C4A-CHB-C1B
6	c2	201	CYC	ND-C1D-CHD-C4C
6	c2	201	CYC	C2D-C1D-CHD-C4C
6	e2	201	CYC	ND-C1D-CHD-C4C
6	e2	201	CYC	C2D-C1D-CHD-C4C
6	g2	201	CYC	NA-C4A-CHB-C1B
6	g2	201	CYC	C3A-C4A-CHB-C1B
6	g2	201	CYC	ND-C1D-CHD-C4C
6	g2	201	CYC	C2D-C1D-CHD-C4C
6	h2	201	CYC	C4B-C3B-CAB-CBB
6	h2	201	CYC	ND-C1D-CHD-C4C
6	h2	201	CYC	C2D-C1D-CHD-C4C
6	i2	201	CYC	ND-C1D-CHD-C4C
6	i2	201	CYC	C2D-C1D-CHD-C4C
6	k2	201	CYC	C3A-C4A-CHB-C1B
6	k2	201	CYC	ND-C1D-CHD-C4C
6	k2	201	CYC	C2D-C1D-CHD-C4C
6	m2	201	CYC	C3A-C4A-CHB-C1B
6	m2	201	CYC	ND-C1D-CHD-C4C
6	m2	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
6	o2	201	CYC	NA-C4A-CHB-C1B
6	o2	201	CYC	C3A-C4A-CHB-C1B
6	o2	201	CYC	ND-C1D-CHD-C4C
6	o2	201	CYC	C2D-C1D-CHD-C4C
6	p2	201	CYC	C4B-C3B-CAB-CBB
6	p2	201	CYC	ND-C1D-CHD-C4C
6	p2	201	CYC	C2D-C1D-CHD-C4C
6	q2	201	CYC	C3A-C4A-CHB-C1B
6	q2	201	CYC	ND-C1D-CHD-C4C
6	q2	201	CYC	C2D-C1D-CHD-C4C
6	s2	201	CYC	C3A-C4A-CHB-C1B
6	s2	201	CYC	ND-C1D-CHD-C4C
6	s2	201	CYC	C2D-C1D-CHD-C4C
6	u2	201	CYC	NA-C4A-CHB-C1B
6	u2	201	CYC	C3A-C4A-CHB-C1B
6	u2	201	CYC	ND-C1D-CHD-C4C
6	u2	201	CYC	C2D-C1D-CHD-C4C
6	v2	201	CYC	NA-C4A-CHB-C1B
6	v2	201	CYC	C3A-C4A-CHB-C1B
6	v2	201	CYC	C4B-C3B-CAB-CBB
6	v2	201	CYC	C2C-C3C-CAC-CBC
6	v2	201	CYC	ND-C1D-CHD-C4C
6	v2	201	CYC	C2D-C1D-CHD-C4C
6	x2	101	CYC	NA-C4A-CHB-C1B
6	x2	101	CYC	C3A-C4A-CHB-C1B
6	x2	101	CYC	ND-C1D-CHD-C4C
6	x2	101	CYC	C2D-C1D-CHD-C4C
6	y2	101	CYC	NA-C4A-CHB-C1B
6	y2	101	CYC	C3A-C4A-CHB-C1B
6	y2	101	CYC	ND-C1D-CHD-C4C
6	y2	101	CYC	C2D-C1D-CHD-C4C
6	A3	201	CYC	C3A-C4A-CHB-C1B
6	A3	201	CYC	ND-C1D-CHD-C4C
6	A3	201	CYC	C2D-C1D-CHD-C4C
6	C3	201	CYC	NA-C4A-CHB-C1B
6	C3	201	CYC	C3A-C4A-CHB-C1B
6	C3	201	CYC	ND-C1D-CHD-C4C
6	C3	201	CYC	C2D-C1D-CHD-C4C
6	D3	201	CYC	C3A-C4A-CHB-C1B
6	D3	201	CYC	C4B-C3B-CAB-CBB
6	D3	201	CYC	C2C-C3C-CAC-CBC
6	D3	201	CYC	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
6	D3	201	CYC	ND-C1D-CHD-C4C
6	D3	201	CYC	C2D-C1D-CHD-C4C
6	E3	201	CYC	NA-C4A-CHB-C1B
6	E3	201	CYC	C3A-C4A-CHB-C1B
6	E3	201	CYC	ND-C1D-CHD-C4C
6	E3	201	CYC	C2D-C1D-CHD-C4C
6	F3	201	CYC	C4B-C3B-CAB-CBB
6	F3	201	CYC	ND-C1D-CHD-C4C
6	F3	201	CYC	C2D-C1D-CHD-C4C
6	G3	201	CYC	ND-C1D-CHD-C4C
6	G3	201	CYC	C2D-C1D-CHD-C4C
6	H3	201	CYC	C4B-C3B-CAB-CBB
6	H3	201	CYC	ND-C1D-CHD-C4C
6	H3	201	CYC	C2D-C1D-CHD-C4C
6	I3	201	CYC	NA-C4A-CHB-C1B
6	I3	201	CYC	C3A-C4A-CHB-C1B
6	I3	201	CYC	ND-C1D-CHD-C4C
6	I3	201	CYC	C2D-C1D-CHD-C4C
6	J3	201	CYC	C3A-C4A-CHB-C1B
6	J3	201	CYC	C4B-C3B-CAB-CBB
6	J3	201	CYC	ND-C1D-CHD-C4C
6	J3	201	CYC	C2D-C1D-CHD-C4C
6	K3	201	CYC	NA-C4A-CHB-C1B
6	K3	201	CYC	C3A-C4A-CHB-C1B
6	K3	201	CYC	ND-C1D-CHD-C4C
6	K3	201	CYC	C2D-C1D-CHD-C4C
6	L3	201	CYC	C4B-C3B-CAB-CBB
6	L3	201	CYC	ND-C1D-CHD-C4C
6	L3	201	CYC	C2D-C1D-CHD-C4C
6	M3	201	CYC	C3A-C4A-CHB-C1B
6	M3	201	CYC	ND-C1D-CHD-C4C
6	M3	201	CYC	C2D-C1D-CHD-C4C
6	N3	201	CYC	C4B-C3B-CAB-CBB
6	N3	201	CYC	ND-C1D-CHD-C4C
6	N3	201	CYC	C2D-C1D-CHD-C4C
6	O3	201	CYC	NA-C4A-CHB-C1B
6	O3	201	CYC	C3A-C4A-CHB-C1B
6	O3	201	CYC	ND-C1D-CHD-C4C
6	O3	201	CYC	C2D-C1D-CHD-C4C
6	Q3	201	CYC	C3A-C4A-CHB-C1B
6	Q3	201	CYC	C4B-C3B-CAB-CBB
6	Q3	201	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
6	Q3	201	CYC	C2D-C1D-CHD-C4C
6	R3	201	CYC	ND-C1D-CHD-C4C
6	R3	201	CYC	C2D-C1D-CHD-C4C
6	S3	201	CYC	C3A-C4A-CHB-C1B
6	S3	201	CYC	ND-C1D-CHD-C4C
6	S3	201	CYC	C2D-C1D-CHD-C4C
6	T3	201	CYC	C4B-C3B-CAB-CBB
6	T3	201	CYC	ND-C1D-CHD-C4C
6	T3	201	CYC	C2D-C1D-CHD-C4C
6	U3	201	CYC	NA-C4A-CHB-C1B
6	U3	201	CYC	C3A-C4A-CHB-C1B
6	U3	201	CYC	ND-C1D-CHD-C4C
6	U3	201	CYC	C2D-C1D-CHD-C4C
6	V3	201	CYC	ND-C1D-CHD-C4C
6	V3	201	CYC	C2D-C1D-CHD-C4C
6	W3	201	CYC	NA-C4A-CHB-C1B
6	W3	201	CYC	C3A-C4A-CHB-C1B
6	W3	201	CYC	ND-C1D-CHD-C4C
6	W3	201	CYC	C2D-C1D-CHD-C4C
6	X3	201	CYC	ND-C1D-CHD-C4C
6	X3	201	CYC	C2D-C1D-CHD-C4C
6	Y3	201	CYC	NA-C4A-CHB-C1B
6	Y3	201	CYC	C3A-C4A-CHB-C1B
6	Y3	201	CYC	ND-C1D-CHD-C4C
6	Y3	201	CYC	C2D-C1D-CHD-C4C
6	Z3	201	CYC	C4B-C3B-CAB-CBB
6	Z3	201	CYC	ND-C1D-CHD-C4C
6	Z3	201	CYC	C2D-C1D-CHD-C4C
6	a3	201	CYC	C3A-C4A-CHB-C1B
6	a3	201	CYC	ND-C1D-CHD-C4C
6	a3	201	CYC	C2D-C1D-CHD-C4C
6	b3	201	CYC	C4B-C3B-CAB-CBB
6	b3	201	CYC	ND-C1D-CHD-C4C
6	b3	201	CYC	C2D-C1D-CHD-C4C
6	c3	201	CYC	C3A-C4A-CHB-C1B
6	c3	201	CYC	ND-C1D-CHD-C4C
6	c3	201	CYC	C2D-C1D-CHD-C4C
6	d3	201	CYC	NA-C4A-CHB-C1B
6	d3	201	CYC	C3A-C4A-CHB-C1B
6	d3	201	CYC	C4B-C3B-CAB-CBB
6	d3	201	CYC	ND-C1D-CHD-C4C
6	d3	201	CYC	C2D-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
6	e3	201	CYC	C3A-C4A-CHB-C1B
6	e3	201	CYC	ND-C1D-CHD-C4C
6	e3	201	CYC	C2D-C1D-CHD-C4C
6	f3	201	CYC	C4B-C3B-CAB-CBB
6	f3	201	CYC	ND-C1D-CHD-C4C
6	f3	201	CYC	C2D-C1D-CHD-C4C
6	g3	201	CYC	C4B-C3B-CAB-CBB
6	g3	201	CYC	ND-C1D-CHD-C4C
6	g3	201	CYC	C2D-C1D-CHD-C4C
6	z3	101	CYC	C4B-C3B-CAB-CBB
6	z3	101	CYC	ND-C1D-CHD-C4C
6	z3	101	CYC	C2D-C1D-CHD-C4C
6	j3	1201	CYC	C4B-C3B-CAB-CBB
6	j3	1201	CYC	ND-C1D-CHD-C4C
6	j3	1201	CYC	C2D-C1D-CHD-C4C
6	j3	1202	CYC	C3A-C4A-CHB-C1B
6	j3	1202	CYC	ND-C1D-CHD-C4C
6	j3	1202	CYC	C2D-C1D-CHD-C4C
6	j3	1203	CYC	ND-C1D-CHD-C4C
6	j3	1203	CYC	C2D-C1D-CHD-C4C
6	j3	1204	CYC	ND-C1D-CHD-C4C
6	j3	1204	CYC	C2D-C1D-CHD-C4C
6	j3	1205	CYC	C4B-C3B-CAB-CBB
6	j3	1205	CYC	ND-C1D-CHD-C4C
6	j3	1205	CYC	C2D-C1D-CHD-C4C
6	j3	1205	CYC	C2D-C3D-CAD-CBD
6	j3	1205	CYC	C4D-C3D-CAD-CBD
6	k3	1201	CYC	NA-C4A-CHB-C1B
6	k3	1201	CYC	C3A-C4A-CHB-C1B
6	k3	1201	CYC	ND-C1D-CHD-C4C
6	k3	1201	CYC	C2D-C1D-CHD-C4C
6	k3	1202	CYC	ND-C1D-CHD-C4C
6	k3	1202	CYC	C2D-C1D-CHD-C4C
6	k3	1203	CYC	ND-C1D-CHD-C4C
6	k3	1203	CYC	C2D-C1D-CHD-C4C
6	k3	1204	CYC	NA-C4A-CHB-C1B
6	k3	1204	CYC	C3A-C4A-CHB-C1B
6	k3	1204	CYC	C4B-C3B-CAB-CBB
6	k3	1204	CYC	ND-C1D-CHD-C4C
6	k3	1204	CYC	C2D-C1D-CHD-C4C
6	k3	1205	CYC	C4B-C3B-CAB-CBB
6	k3	1205	CYC	ND-C1D-CHD-C4C

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Mol	Chain	Res	Type	Atoms
6	k3	1205	CYC	C2D-C1D-CHD-C4C
6	k3	1205	CYC	C2D-C3D-CAD-CBD
6	k3	1205	CYC	C4D-C3D-CAD-CBD
6	k3	1206	CYC	NA-C4A-CHB-C1B
6	k3	1206	CYC	C3A-C4A-CHB-C1B
6	k3	1206	CYC	ND-C1D-CHD-C4C
6	k3	1206	CYC	C2D-C1D-CHD-C4C
6	k3	1207	CYC	C3A-C4A-CHB-C1B
6	h3	201	CYC	C4B-C3B-CAB-CBB
6	h3	201	CYC	ND-C1D-CHD-C4C
6	h3	201	CYC	C2D-C1D-CHD-C4C
6	z1	101	CYC	C2B-C3B-CAB-CBB
6	M1	101	CYC	C2B-C3B-CAB-CBB
6	F2	201	CYC	C2B-C3B-CAB-CBB
6	L2	201	CYC	C2B-C3B-CAB-CBB
6	N2	201	CYC	C2B-C3B-CAB-CBB
6	P2	201	CYC	C2B-C3B-CAB-CBB
6	T2	201	CYC	C2B-C3B-CAB-CBB
6	V2	201	CYC	C2B-C3B-CAB-CBB
6	b2	201	CYC	C2B-C3B-CAB-CBB
6	h2	201	CYC	C2B-C3B-CAB-CBB
6	v2	201	CYC	C2B-C3B-CAB-CBB
6	F3	201	CYC	C2B-C3B-CAB-CBB
6	H3	201	CYC	C2B-C3B-CAB-CBB
6	L3	201	CYC	C2B-C3B-CAB-CBB
6	Z3	201	CYC	C2B-C3B-CAB-CBB
6	b3	201	CYC	C2B-C3B-CAB-CBB
6	d3	201	CYC	C2B-C3B-CAB-CBB
6	f3	201	CYC	C2B-C3B-CAB-CBB
6	g3	201	CYC	C2B-C3B-CAB-CBB
6	j3	1201	CYC	C2B-C3B-CAB-CBB
6	k3	1204	CYC	C2B-C3B-CAB-CBB
6	h3	201	CYC	C2B-C3B-CAB-CBB
6	B2	201	CYC	C2B-C3B-CAB-CBB
6	p2	201	CYC	C2B-C3B-CAB-CBB
6	D3	201	CYC	C2B-C3B-CAB-CBB
6	J3	201	CYC	C2B-C3B-CAB-CBB
6	j3	1205	CYC	C2B-C3B-CAB-CBB
6	R2	201	CYC	C2B-C3B-CAB-CBB
6	N3	201	CYC	C2B-C3B-CAB-CBB
6	Q3	201	CYC	C2B-C3B-CAB-CBB
6	k3	1205	CYC	C2B-C3B-CAB-CBB

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Mol	Chain	Res	Type	Atoms
6	T3	201	CYC	C2B-C3B-CAB-CBB
6	J1	201	CYC	C2B-C3B-CAB-CBB
6	F1	201	CYC	C2B-C3B-CAB-CBB
6	X2	201	CYC	C2B-C3B-CAB-CBB
6	y2	101	CYC	C2B-C3B-CAB-CBB
6	x2	101	CYC	C2B-C3B-CAB-CBB
6	z3	101	CYC	C3A-C4A-CHB-C1B
6	z3	101	CYC	C2B-C3B-CAB-CBB
6	Q2	201	CYC	NA-C4A-CHB-C1B
6	Y2	201	CYC	NA-C4A-CHB-C1B
6	c2	201	CYC	NA-C4A-CHB-C1B
6	k2	201	CYC	NA-C4A-CHB-C1B
6	D3	201	CYC	NA-C4A-CHB-C1B
6	M3	201	CYC	NA-C4A-CHB-C1B
6	Q3	201	CYC	NA-C4A-CHB-C1B
6	S3	201	CYC	NA-C4A-CHB-C1B
6	a3	201	CYC	NA-C4A-CHB-C1B
6	C2	201	CYC	C3A-C4A-CHB-C1B
6	I2	201	CYC	C3A-C4A-CHB-C1B
6	M2	201	CYC	C3A-C4A-CHB-C1B
6	P2	201	CYC	C3A-C4A-CHB-C1B
6	S2	201	CYC	C3A-C4A-CHB-C1B
6	W2	201	CYC	C3A-C4A-CHB-C1B
6	i2	201	CYC	C3A-C4A-CHB-C1B
6	G3	201	CYC	C3A-C4A-CHB-C1B
6	V3	201	CYC	C3A-C4A-CHB-C1B
6	j3	1203	CYC	C3A-C4A-CHB-C1B
6	k3	1202	CYC	C3A-C4A-CHB-C1B
6	k3	1203	CYC	C3A-C4A-CHB-C1B
6	K1	201	CYC	NA-C4A-CHB-C1B
6	L1	201	CYC	NA-C4A-CHB-C1B
6	z1	101	CYC	NA-C4A-CHB-C1B
6	M1	101	CYC	NA-C4A-CHB-C1B
6	A2	201	CYC	NA-C4A-CHB-C1B
6	B2	201	CYC	NA-C4A-CHB-C1B
6	C2	201	CYC	NA-C4A-CHB-C1B
6	F2	201	CYC	NA-C4A-CHB-C1B
6	G2	201	CYC	NA-C4A-CHB-C1B
6	H2	201	CYC	NA-C4A-CHB-C1B
6	I2	201	CYC	NA-C4A-CHB-C1B
6	L2	201	CYC	NA-C4A-CHB-C1B
6	M2	201	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
6	N2	201	CYC	NA-C4A-CHB-C1B
6	O2	201	CYC	NA-C4A-CHB-C1B
6	P2	201	CYC	NA-C4A-CHB-C1B
6	R2	201	CYC	NA-C4A-CHB-C1B
6	S2	201	CYC	NA-C4A-CHB-C1B
6	T2	201	CYC	NA-C4A-CHB-C1B
6	V2	201	CYC	NA-C4A-CHB-C1B
6	W2	201	CYC	NA-C4A-CHB-C1B
6	X2	201	CYC	NA-C4A-CHB-C1B
6	b2	201	CYC	NA-C4A-CHB-C1B
6	e2	201	CYC	NA-C4A-CHB-C1B
6	h2	201	CYC	NA-C4A-CHB-C1B
6	i2	201	CYC	NA-C4A-CHB-C1B
6	m2	201	CYC	NA-C4A-CHB-C1B
6	p2	201	CYC	NA-C4A-CHB-C1B
6	q2	201	CYC	NA-C4A-CHB-C1B
6	s2	201	CYC	NA-C4A-CHB-C1B
6	A3	201	CYC	NA-C4A-CHB-C1B
6	F3	201	CYC	NA-C4A-CHB-C1B
6	G3	201	CYC	NA-C4A-CHB-C1B
6	H3	201	CYC	NA-C4A-CHB-C1B
6	J3	201	CYC	NA-C4A-CHB-C1B
6	L3	201	CYC	NA-C4A-CHB-C1B
6	N3	201	CYC	NA-C4A-CHB-C1B
6	R3	201	CYC	NA-C4A-CHB-C1B
6	T3	201	CYC	NA-C4A-CHB-C1B
6	V3	201	CYC	NA-C4A-CHB-C1B
6	X3	201	CYC	NA-C4A-CHB-C1B
6	Z3	201	CYC	NA-C4A-CHB-C1B
6	b3	201	CYC	NA-C4A-CHB-C1B
6	c3	201	CYC	NA-C4A-CHB-C1B
6	e3	201	CYC	NA-C4A-CHB-C1B
6	f3	201	CYC	NA-C4A-CHB-C1B
6	g3	201	CYC	NA-C4A-CHB-C1B
6	z3	101	CYC	NA-C4A-CHB-C1B
6	j3	1201	CYC	NA-C4A-CHB-C1B
6	j3	1202	CYC	NA-C4A-CHB-C1B
6	j3	1203	CYC	NA-C4A-CHB-C1B
6	j3	1204	CYC	NA-C4A-CHB-C1B
6	j3	1205	CYC	NA-C4A-CHB-C1B
6	j3	1206	CYC	NA-C4A-CHB-C1B
6	k3	1202	CYC	NA-C4A-CHB-C1B

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Mol	Chain	Res	Type	Atoms
6	k3	1203	CYC	NA-C4A-CHB-C1B
6	k3	1205	CYC	NA-C4A-CHB-C1B
6	k3	1207	CYC	NA-C4A-CHB-C1B
6	h3	201	CYC	NA-C4A-CHB-C1B
6	z1	101	CYC	C3A-C4A-CHB-C1B
6	M1	101	CYC	C3A-C4A-CHB-C1B
6	B2	201	CYC	C3A-C4A-CHB-C1B
6	F2	201	CYC	C3A-C4A-CHB-C1B
6	H2	201	CYC	C3A-C4A-CHB-C1B
6	L2	201	CYC	C3A-C4A-CHB-C1B
6	N2	201	CYC	C3A-C4A-CHB-C1B
6	R2	201	CYC	C3A-C4A-CHB-C1B
6	T2	201	CYC	C3A-C4A-CHB-C1B
6	V2	201	CYC	C3A-C4A-CHB-C1B
6	X2	201	CYC	C3A-C4A-CHB-C1B
6	b2	201	CYC	C3A-C4A-CHB-C1B
6	e2	201	CYC	C3A-C4A-CHB-C1B
6	h2	201	CYC	C3A-C4A-CHB-C1B
6	p2	201	CYC	C3A-C4A-CHB-C1B
6	F3	201	CYC	C3A-C4A-CHB-C1B
6	H3	201	CYC	C3A-C4A-CHB-C1B
6	L3	201	CYC	C3A-C4A-CHB-C1B
6	N3	201	CYC	C3A-C4A-CHB-C1B
6	R3	201	CYC	C3A-C4A-CHB-C1B
6	T3	201	CYC	C3A-C4A-CHB-C1B
6	X3	201	CYC	C3A-C4A-CHB-C1B
6	Z3	201	CYC	C3A-C4A-CHB-C1B
6	b3	201	CYC	C3A-C4A-CHB-C1B
6	f3	201	CYC	C3A-C4A-CHB-C1B
6	g3	201	CYC	C3A-C4A-CHB-C1B
6	j3	1201	CYC	C3A-C4A-CHB-C1B
6	j3	1204	CYC	C3A-C4A-CHB-C1B
6	j3	1205	CYC	C3A-C4A-CHB-C1B
6	j3	1206	CYC	C3A-C4A-CHB-C1B
6	k3	1205	CYC	C3A-C4A-CHB-C1B
6	h3	201	CYC	C3A-C4A-CHB-C1B
6	Q3	201	CYC	C3D-CAD-CBD-CGD
6	j3	1202	CYC	C2B-C1B-CHB-C4A
6	R3	201	CYC	C1A-C2A-CAA-CBA
6	y2	101	CYC	C4B-C3B-CAB-CBB
6	x2	101	CYC	C4B-C3B-CAB-CBB
6	R3	201	CYC	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
6	X3	201	CYC	C1A-C2A-CAA-CBA
6	j3	1204	CYC	C2A-CAA-CBA-CGA
6	X3	201	CYC	C3A-C2A-CAA-CBA
6	j3	1202	CYC	C2B-C3B-CAB-CBB
6	j3	1206	CYC	CAD-CBD-CGD-O1D
6	V3	201	CYC	CAA-CBA-CGA-O1A
6	L1	201	CYC	CAA-CBA-CGA-O1A
6	k3	1207	CYC	CAD-CBD-CGD-O1D
6	L1	201	CYC	CAA-CBA-CGA-O2A
6	V3	201	CYC	CAA-CBA-CGA-O2A
6	j3	1202	CYC	NB-C1B-CHB-C4A
6	k3	1207	CYC	CAA-CBA-CGA-O2A
6	k3	1207	CYC	CAA-CBA-CGA-O1A
6	k3	1207	CYC	CAD-CBD-CGD-O2D
6	g2	201	CYC	CAA-CBA-CGA-O2A
6	I3	201	CYC	CAA-CBA-CGA-O2A
6	U3	201	CYC	CAA-CBA-CGA-O1A
6	m2	201	CYC	CAA-CBA-CGA-O2A
6	E3	201	CYC	CAA-CBA-CGA-O2A
6	K3	201	CYC	CAA-CBA-CGA-O2A
6	j3	1206	CYC	CAD-CBD-CGD-O2D
6	e2	201	CYC	CAA-CBA-CGA-O2A
6	A3	201	CYC	CAA-CBA-CGA-O2A
6	G3	201	CYC	CAA-CBA-CGA-O2A
6	U3	201	CYC	CAA-CBA-CGA-O2A
6	g3	201	CYC	CAD-CBD-CGD-O2D
6	T3	201	CYC	CAD-CBD-CGD-O2D
6	j3	1206	CYC	CAA-CBA-CGA-O2A
6	h3	201	CYC	CAA-CBA-CGA-O2A
6	c3	201	CYC	CAA-CBA-CGA-O2A
6	j3	1202	CYC	CAA-CBA-CGA-O2A
6	j3	1206	CYC	CAA-CBA-CGA-O1A
6	U2	201	CYC	CAA-CBA-CGA-O2A
6	Y2	201	CYC	CAA-CBA-CGA-O2A
6	q2	201	CYC	CAA-CBA-CGA-O2A
6	C3	201	CYC	CAA-CBA-CGA-O2A
6	Z3	201	CYC	CAD-CBD-CGD-O2D
6	k3	1206	CYC	CAD-CBD-CGD-O2D
6	A1	201	CYC	CAA-CBA-CGA-O2A
6	G2	201	CYC	CAA-CBA-CGA-O2A
6	M2	201	CYC	CAA-CBA-CGA-O2A
6	S2	201	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
6	U2	201	CYC	CAA-CBA-CGA-O1A
6	W2	201	CYC	CAA-CBA-CGA-O2A
6	Y2	201	CYC	CAA-CBA-CGA-O1A
6	c2	201	CYC	CAA-CBA-CGA-O2A
6	g2	201	CYC	CAA-CBA-CGA-O1A
6	o2	201	CYC	CAA-CBA-CGA-O2A
6	s2	201	CYC	CAA-CBA-CGA-O2A
6	G3	201	CYC	CAA-CBA-CGA-O1A
6	K3	201	CYC	CAA-CBA-CGA-O1A
6	Q3	201	CYC	CAD-CBD-CGD-O2D
6	R3	201	CYC	CAD-CBD-CGD-O2D
6	V3	201	CYC	CAD-CBD-CGD-O2D
6	W3	201	CYC	CAA-CBA-CGA-O2A
6	X3	201	CYC	CAA-CBA-CGA-O2A
6	g3	201	CYC	CAD-CBD-CGD-O1D
6	h3	201	CYC	CAD-CBD-CGD-O2D
6	F1	201	CYC	CAD-CBD-CGD-O2D
6	E1	201	CYC	CAA-CBA-CGA-O2A
6	K1	201	CYC	CAA-CBA-CGA-O2A
6	m2	201	CYC	CAA-CBA-CGA-O1A
6	A3	201	CYC	CAA-CBA-CGA-O1A
6	C3	201	CYC	CAA-CBA-CGA-O1A
6	D3	201	CYC	CAA-CBA-CGA-O2A
6	E3	201	CYC	CAA-CBA-CGA-O1A
6	I3	201	CYC	CAA-CBA-CGA-O1A
6	J3	201	CYC	CAA-CBA-CGA-O2A
6	M3	201	CYC	CAA-CBA-CGA-O2A
6	O3	201	CYC	CAA-CBA-CGA-O2A
6	e3	201	CYC	CAA-CBA-CGA-O2A
6	B2	201	CYC	CAD-CBD-CGD-O2D
6	M2	201	CYC	CAA-CBA-CGA-O1A
6	Q2	201	CYC	CAA-CBA-CGA-O2A
6	i2	201	CYC	CAA-CBA-CGA-O2A
6	k2	201	CYC	CAA-CBA-CGA-O2A
6	S3	201	CYC	CAA-CBA-CGA-O2A
6	X3	201	CYC	CAD-CBD-CGD-O2D
6	a3	201	CYC	CAA-CBA-CGA-O2A
6	d3	201	CYC	CAD-CBD-CGD-O2D
6	N3	201	CYC	CAD-CBD-CGD-O2D
6	T3	201	CYC	CAA-CBA-CGA-O2A
6	B2	201	CYC	CAA-CBA-CGA-O2A
6	I2	201	CYC	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
6	L2	201	CYC	CAD-CBD-CGD-O2D
6	y2	101	CYC	CAD-CBD-CGD-O2D
6	N3	201	CYC	CAA-CBA-CGA-O2A
6	O3	201	CYC	CAA-CBA-CGA-O1A
6	W3	201	CYC	CAA-CBA-CGA-O1A
6	C1	201	CYC	CAA-CBA-CGA-O2A
6	H2	201	CYC	CAD-CBD-CGD-O2D
6	K2	201	CYC	CAA-CBA-CGA-O2A
6	P2	201	CYC	CAD-CBD-CGD-O2D
6	R2	201	CYC	CAD-CBD-CGD-O2D
6	u2	201	CYC	CAA-CBA-CGA-O2A
6	Y3	201	CYC	CAA-CBA-CGA-O2A
6	k3	1201	CYC	CAA-CBA-CGA-O1A
6	k3	1201	CYC	CAA-CBA-CGA-O2A
6	x2	101	CYC	CAA-CBA-CGA-O2A
6	F3	201	CYC	CAD-CBD-CGD-O2D
6	R3	201	CYC	CAA-CBA-CGA-O2A
6	z3	101	CYC	CAA-CBA-CGA-O2A
6	j3	1203	CYC	CAD-CBD-CGD-O2D
6	j3	1204	CYC	CAA-CBA-CGA-O2A
6	M1	101	CYC	CAA-CBA-CGA-O2A
6	Q2	201	CYC	CAA-CBA-CGA-O1A
6	W2	201	CYC	CAA-CBA-CGA-O1A
6	o2	201	CYC	CAA-CBA-CGA-O1A
6	D3	201	CYC	CAA-CBA-CGA-O1A
6	H3	201	CYC	CAD-CBD-CGD-O2D
6	M3	201	CYC	CAA-CBA-CGA-O1A
6	V3	201	CYC	CAD-CBD-CGD-O1D
6	H1	201	CYC	CAA-CBA-CGA-O2A
6	A2	201	CYC	CAA-CBA-CGA-O2A
6	F2	201	CYC	CAA-CBA-CGA-O2A
6	F2	201	CYC	CAD-CBD-CGD-O2D
6	G2	201	CYC	CAA-CBA-CGA-O1A
6	O2	201	CYC	CAA-CBA-CGA-O2A
6	V2	201	CYC	CAD-CBD-CGD-O2D
6	X2	201	CYC	CAA-CBA-CGA-O2A
6	a2	201	CYC	CAA-CBA-CGA-O2A
6	c2	201	CYC	CAA-CBA-CGA-O1A
6	p2	201	CYC	CAA-CBA-CGA-O2A
6	s2	201	CYC	CAA-CBA-CGA-O1A
6	v2	201	CYC	CAA-CBA-CGA-O2A
6	v2	201	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
6	y2	101	CYC	CAA-CBA-CGA-O2A
6	L3	201	CYC	CAA-CBA-CGA-O2A
6	R3	201	CYC	CAA-CBA-CGA-O1A
6	S3	201	CYC	CAA-CBA-CGA-O1A
6	X3	201	CYC	CAA-CBA-CGA-O1A
6	Z3	201	CYC	CAA-CBA-CGA-O2A
6	d3	201	CYC	CAA-CBA-CGA-O2A
6	J1	201	CYC	CAA-CBA-CGA-O2A
6	K1	201	CYC	CAA-CBA-CGA-O1A
6	z1	101	CYC	CAA-CBA-CGA-O2A
6	E2	201	CYC	CAA-CBA-CGA-O2A
6	N2	201	CYC	CAA-CBA-CGA-O2A
6	P2	201	CYC	CAA-CBA-CGA-O2A
6	R2	201	CYC	CAA-CBA-CGA-O2A
6	T2	201	CYC	CAD-CBD-CGD-O2D
6	b2	201	CYC	CAD-CBD-CGD-O2D
6	h2	201	CYC	CAA-CBA-CGA-O2A
6	i2	201	CYC	CAA-CBA-CGA-O1A
6	p2	201	CYC	CAD-CBD-CGD-O2D
6	J3	201	CYC	CAD-CBD-CGD-O2D
6	g3	201	CYC	CAA-CBA-CGA-O2A
6	j3	1205	CYC	CAA-CBA-CGA-O2A
6	k3	1203	CYC	CAA-CBA-CGA-O2A
6	k3	1204	CYC	CAA-CBA-CGA-O2A
6	E1	201	CYC	CAA-CBA-CGA-O1A
6	z1	101	CYC	CAD-CBD-CGD-O2D
6	M1	101	CYC	CAD-CBD-CGD-O2D
6	L2	201	CYC	CAA-CBA-CGA-O2A
6	h2	201	CYC	CAD-CBD-CGD-O2D
6	k2	201	CYC	CAA-CBA-CGA-O1A
6	F3	201	CYC	CAA-CBA-CGA-O2A
6	N3	201	CYC	CAD-CBD-CGD-O1D
6	b3	201	CYC	CAD-CBD-CGD-O2D
6	f3	201	CYC	CAA-CBA-CGA-O2A
6	j3	1204	CYC	CAD-CBD-CGD-O2D
6	k3	1203	CYC	CAD-CBD-CGD-O2D
6	h3	201	CYC	CAD-CBD-CGD-O1D
6	T2	201	CYC	CAA-CBA-CGA-O2A
6	b2	201	CYC	CAA-CBA-CGA-O2A
6	x2	101	CYC	CAD-CBD-CGD-O2D
6	J3	201	CYC	CAA-CBA-CGA-O1A
6	L3	201	CYC	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
6	Q3	201	CYC	CAD-CBD-CGD-O1D
6	Y3	201	CYC	CAA-CBA-CGA-O1A
6	e3	201	CYC	CAA-CBA-CGA-O1A
6	z3	101	CYC	CAD-CBD-CGD-O2D
6	j3	1201	CYC	CAA-CBA-CGA-O2A
6	j3	1201	CYC	CAD-CBD-CGD-O2D
6	k3	1201	CYC	CAD-CBD-CGD-O2D
6	k3	1202	CYC	CAA-CBA-CGA-O2A
6	H1	201	CYC	CAA-CBA-CGA-O1A
6	J1	201	CYC	CAD-CBD-CGD-O2D
6	z1	101	CYC	CAD-CBD-CGD-O1D
6	M1	101	CYC	CAD-CBD-CGD-O1D
6	C2	201	CYC	CAA-CBA-CGA-O2A
6	H2	201	CYC	CAA-CBA-CGA-O2A
6	L2	201	CYC	CAA-CBA-CGA-O1A
6	N2	201	CYC	CAD-CBD-CGD-O1D
6	V2	201	CYC	CAA-CBA-CGA-O2A
6	b2	201	CYC	CAA-CBA-CGA-O1A
6	e2	201	CYC	CAA-CBA-CGA-O1A
6	p2	201	CYC	CAA-CBA-CGA-O1A
6	y2	101	CYC	CAD-CBD-CGD-O1D
6	D3	201	CYC	CAD-CBD-CGD-O1D
6	D3	201	CYC	CAD-CBD-CGD-O2D
6	F3	201	CYC	CAA-CBA-CGA-O1A
6	L3	201	CYC	CAD-CBD-CGD-O1D
6	R3	201	CYC	CAD-CBD-CGD-O1D
6	T3	201	CYC	CAD-CBD-CGD-O1D
6	b3	201	CYC	CAA-CBA-CGA-O2A
6	b3	201	CYC	CAD-CBD-CGD-O1D
6	d3	201	CYC	CAD-CBD-CGD-O1D
6	f3	201	CYC	CAA-CBA-CGA-O1A
6	f3	201	CYC	CAD-CBD-CGD-O2D
6	j3	1201	CYC	CAD-CBD-CGD-O1D
6	j3	1203	CYC	CAA-CBA-CGA-O1A
6	j3	1203	CYC	CAA-CBA-CGA-O2A
6	j3	1204	CYC	CAD-CBD-CGD-O1D
6	k3	1202	CYC	CAA-CBA-CGA-O1A
6	k3	1203	CYC	CAA-CBA-CGA-O1A
6	k3	1203	CYC	CAD-CBD-CGD-O1D
6	k3	1204	CYC	CAD-CBD-CGD-O2D
6	k3	1205	CYC	CAA-CBA-CGA-O2A
6	k3	1206	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
6	A1	201	CYC	CAA-CBA-CGA-O1A
6	A2	201	CYC	CAA-CBA-CGA-O1A
6	C2	201	CYC	CAA-CBA-CGA-O1A
6	E2	201	CYC	CAA-CBA-CGA-O1A
6	F2	201	CYC	CAD-CBD-CGD-O1D
6	I2	201	CYC	CAA-CBA-CGA-O1A
6	K2	201	CYC	CAA-CBA-CGA-O1A
6	R2	201	CYC	CAA-CBA-CGA-O1A
6	S2	201	CYC	CAA-CBA-CGA-O1A
6	T2	201	CYC	CAD-CBD-CGD-O1D
6	X2	201	CYC	CAD-CBD-CGD-O2D
6	b2	201	CYC	CAD-CBD-CGD-O1D
6	h2	201	CYC	CAD-CBD-CGD-O1D
6	q2	201	CYC	CAA-CBA-CGA-O1A
6	H3	201	CYC	CAA-CBA-CGA-O2A
6	J3	201	CYC	CAD-CBD-CGD-O1D
6	X3	201	CYC	CAD-CBD-CGD-O1D
6	Z3	201	CYC	CAA-CBA-CGA-O1A
6	a3	201	CYC	CAA-CBA-CGA-O1A
6	c3	201	CYC	CAA-CBA-CGA-O1A
6	d3	201	CYC	CAA-CBA-CGA-O1A
6	j3	1201	CYC	CAA-CBA-CGA-O1A
6	k3	1206	CYC	CAA-CBA-CGA-O2A
6	h3	201	CYC	CAA-CBA-CGA-O1A
6	C1	201	CYC	CAA-CBA-CGA-O1A
6	J1	201	CYC	CAD-CBD-CGD-O1D
6	z1	101	CYC	CAA-CBA-CGA-O1A
6	F2	201	CYC	CAA-CBA-CGA-O1A
6	H2	201	CYC	CAA-CBA-CGA-O1A
6	N2	201	CYC	CAA-CBA-CGA-O1A
6	N2	201	CYC	CAD-CBD-CGD-O2D
6	T2	201	CYC	CAA-CBA-CGA-O1A
6	V2	201	CYC	CAA-CBA-CGA-O1A
6	V2	201	CYC	CAD-CBD-CGD-O1D
6	X2	201	CYC	CAA-CBA-CGA-O1A
6	X2	201	CYC	CAD-CBD-CGD-O1D
6	p2	201	CYC	CAD-CBD-CGD-O1D
6	x2	101	CYC	CAD-CBD-CGD-O1D
6	y2	101	CYC	CAA-CBA-CGA-O1A
6	F3	201	CYC	CAD-CBD-CGD-O1D
6	H3	201	CYC	CAA-CBA-CGA-O1A
6	H3	201	CYC	CAD-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
6	L3	201	CYC	CAA-CBA-CGA-O1A
6	Z3	201	CYC	CAD-CBD-CGD-O1D
6	b3	201	CYC	CAA-CBA-CGA-O1A
6	f3	201	CYC	CAD-CBD-CGD-O1D
6	z3	101	CYC	CAD-CBD-CGD-O1D
6	j3	1202	CYC	CAA-CBA-CGA-O1A
6	j3	1203	CYC	CAD-CBD-CGD-O1D
6	j3	1205	CYC	CAA-CBA-CGA-O1A
6	k3	1205	CYC	CAA-CBA-CGA-O1A
6	k3	1206	CYC	CAA-CBA-CGA-O1A
6	J1	201	CYC	CAA-CBA-CGA-O1A
6	M1	101	CYC	CAA-CBA-CGA-O1A
6	B2	201	CYC	CAD-CBD-CGD-O1D
6	O2	201	CYC	CAA-CBA-CGA-O1A
6	P2	201	CYC	CAD-CBD-CGD-O1D
6	a2	201	CYC	CAA-CBA-CGA-O1A
6	h2	201	CYC	CAA-CBA-CGA-O1A
6	v2	201	CYC	CAA-CBA-CGA-O1A
6	z3	101	CYC	CAA-CBA-CGA-O1A
6	k3	1204	CYC	CAD-CBD-CGD-O1D
6	P2	201	CYC	CAA-CBA-CGA-O1A
6	k3	1204	CYC	CAA-CBA-CGA-O1A
6	v2	201	CYC	CAD-CBD-CGD-O1D
6	u2	201	CYC	CAA-CBA-CGA-O1A
6	B2	201	CYC	CAA-CBA-CGA-O1A
6	x2	101	CYC	CAA-CBA-CGA-O1A
6	j3	1204	CYC	CAA-CBA-CGA-O1A
6	k3	1201	CYC	CAD-CBD-CGD-O1D
6	R2	201	CYC	CAD-CBD-CGD-O1D
6	g3	201	CYC	CAA-CBA-CGA-O1A
6	F1	201	CYC	CAD-CBD-CGD-O1D
6	H2	201	CYC	CAD-CBD-CGD-O1D
6	L2	201	CYC	CAD-CBD-CGD-O1D
6	N3	201	CYC	CAA-CBA-CGA-O1A
6	T3	201	CYC	CAA-CBA-CGA-O1A
6	g3	201	CYC	C2A-CAA-CBA-CGA

There are no ring outliers.

95 monomers are involved in 524 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	K2	201	CYC	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	C2	201	CYC	4	0
6	s2	201	CYC	7	0
6	Y3	201	CYC	5	0
6	b2	201	CYC	8	0
6	V2	201	CYC	3	0
6	q2	201	CYC	7	0
6	j3	1202	CYC	5	0
6	M3	201	CYC	4	0
6	j3	1204	CYC	9	0
6	H1	201	CYC	7	0
6	E2	201	CYC	5	0
6	u2	201	CYC	8	0
6	U2	201	CYC	3	0
6	V3	201	CYC	5	0
6	L1	201	CYC	12	0
6	j3	1203	CYC	6	0
6	p2	201	CYC	7	0
6	H3	201	CYC	11	0
6	R3	201	CYC	3	0
6	T2	201	CYC	6	0
6	F3	201	CYC	5	0
6	c2	201	CYC	4	0
6	a3	201	CYC	3	0
6	G2	201	CYC	6	0
6	F2	201	CYC	2	0
6	G3	201	CYC	9	0
6	k3	1202	CYC	4	0
6	B2	201	CYC	4	0
6	Y2	201	CYC	5	0
6	E3	201	CYC	4	0
6	I2	201	CYC	3	0
6	M2	201	CYC	4	0
6	j3	1206	CYC	1	0
6	d3	201	CYC	3	0
6	R2	201	CYC	2	0
6	k3	1206	CYC	3	0
6	A2	201	CYC	7	0
6	P2	201	CYC	2	0
6	O3	201	CYC	6	0
6	a2	201	CYC	6	0
6	N3	201	CYC	4	0
6	z3	101	CYC	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	j3	1201	CYC	11	0
6	A3	201	CYC	10	0
6	K1	201	CYC	10	0
6	H2	201	CYC	7	0
6	O2	201	CYC	3	0
6	Q3	201	CYC	5	0
6	e2	201	CYC	5	0
6	k3	1203	CYC	2	0
6	I3	201	CYC	5	0
6	W3	201	CYC	9	0
6	j3	1205	CYC	9	0
6	k3	1201	CYC	3	0
6	C3	201	CYC	5	0
6	A1	201	CYC	5	0
6	X3	201	CYC	3	0
6	h3	201	CYC	13	0
6	U3	201	CYC	5	0
6	M1	101	CYC	6	0
6	X2	201	CYC	5	0
6	F1	201	CYC	5	0
6	g2	201	CYC	4	0
6	S2	201	CYC	8	0
6	T3	201	CYC	3	0
6	e3	201	CYC	4	0
6	W2	201	CYC	7	0
6	h2	201	CYC	5	0
6	m2	201	CYC	5	0
6	i2	201	CYC	4	0
6	k3	1205	CYC	10	0
6	K3	201	CYC	4	0
6	k2	201	CYC	5	0
6	C1	201	CYC	7	0
6	k3	1204	CYC	6	0
6	E1	201	CYC	6	0
6	J3	201	CYC	6	0
6	o2	201	CYC	8	0
6	S3	201	CYC	4	0
6	L2	201	CYC	2	0
6	D3	201	CYC	4	0
6	L3	201	CYC	7	0
6	f3	201	CYC	2	0
6	y2	101	CYC	8	0

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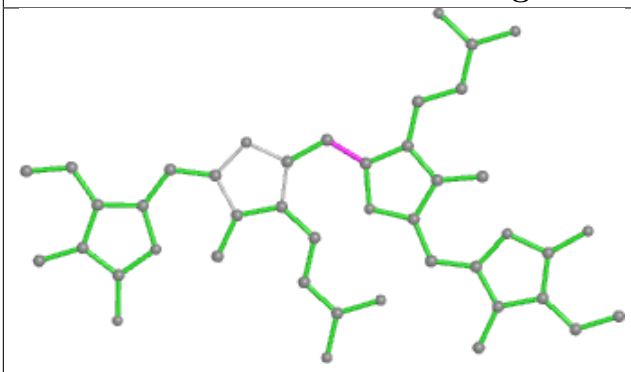
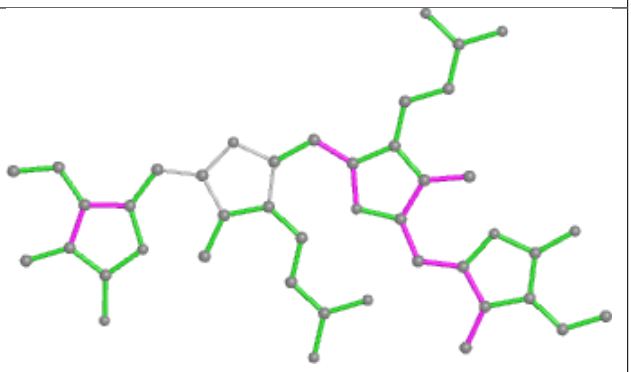
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	g3	201	CYC	8	0
6	b3	201	CYC	1	0
6	z1	101	CYC	5	0
6	x2	101	CYC	7	0
6	c3	201	CYC	5	0
6	v2	201	CYC	7	0
6	N2	201	CYC	5	0
6	Q2	201	CYC	6	0
6	J1	201	CYC	7	0
6	Z3	201	CYC	2	0

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.

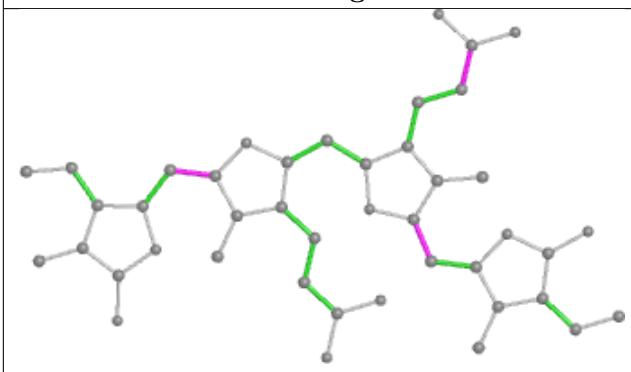
Ligand CYC K2 201



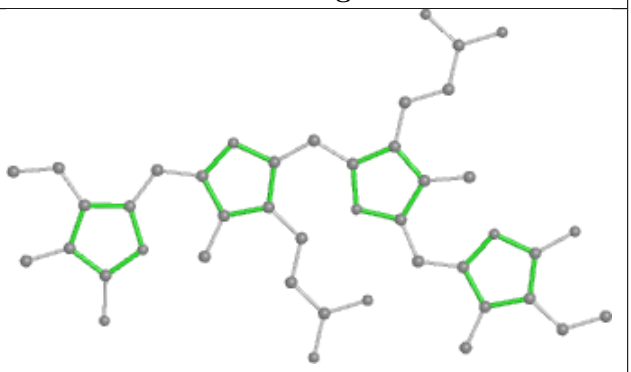
Bond lengths



Bond angles

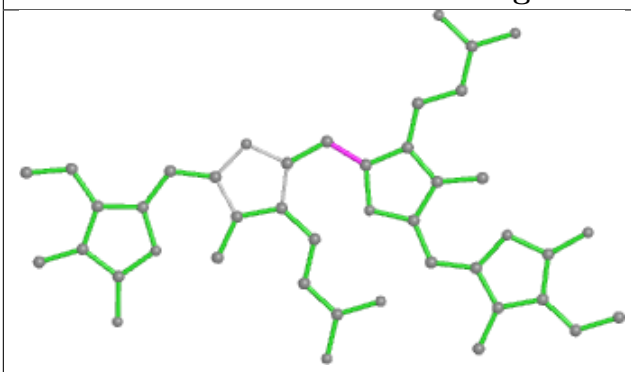


Torsions

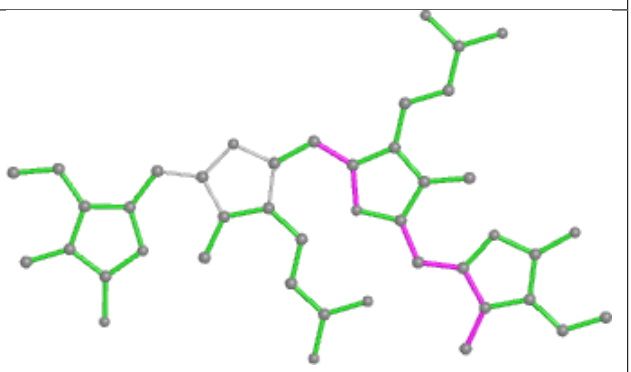


Rings

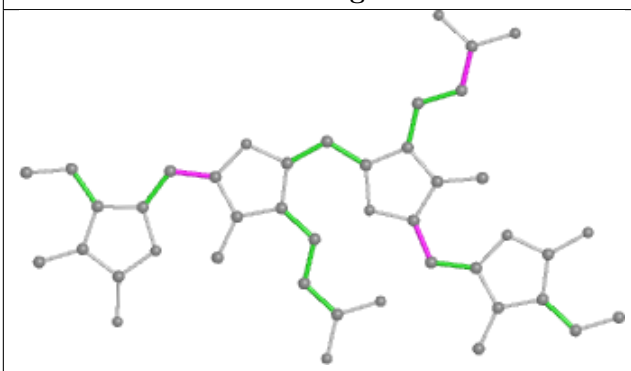
Ligand CYC C2 201



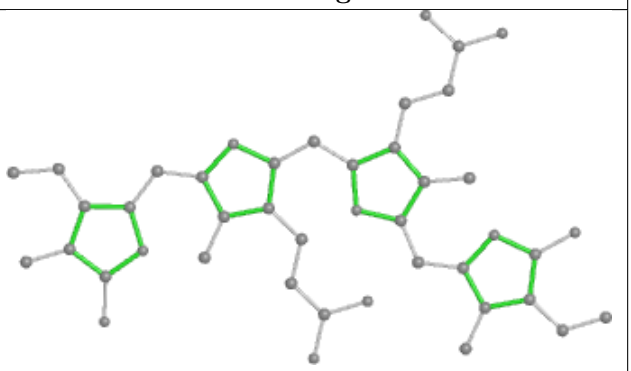
Bond lengths



Bond angles

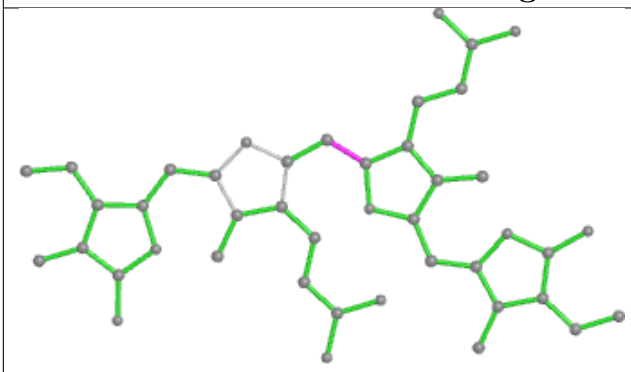


Torsions

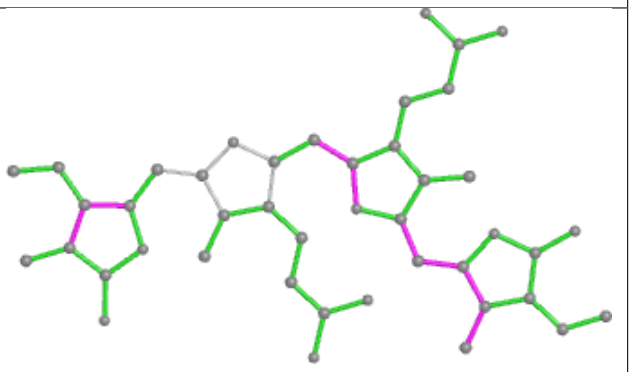


Rings

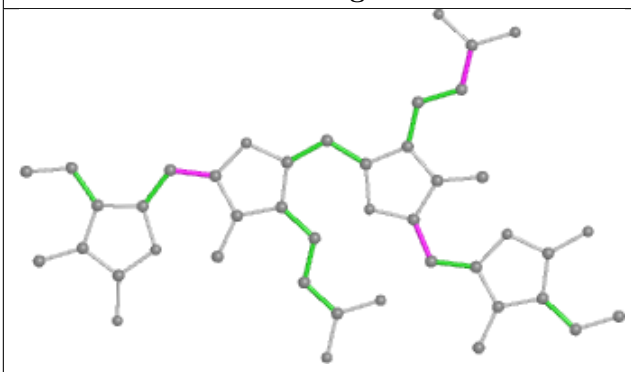
Ligand CYC s2 201



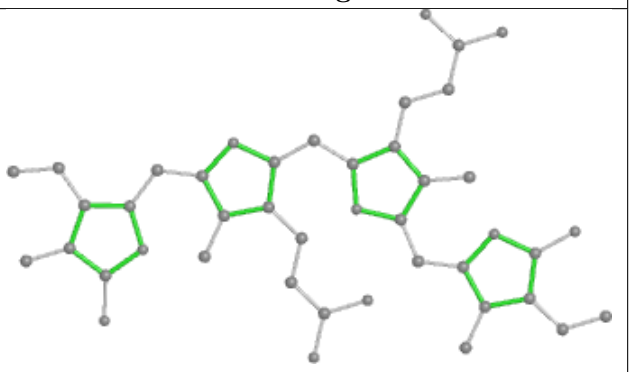
Bond lengths



Bond angles

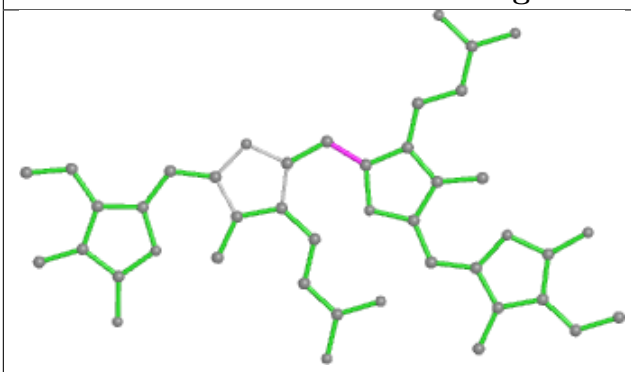


Torsions



Rings

Ligand CYC Y3 201



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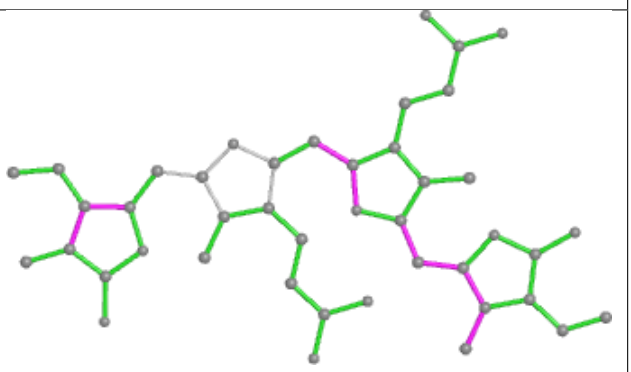
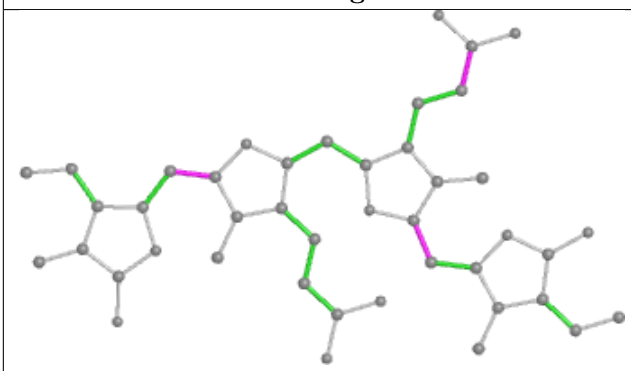
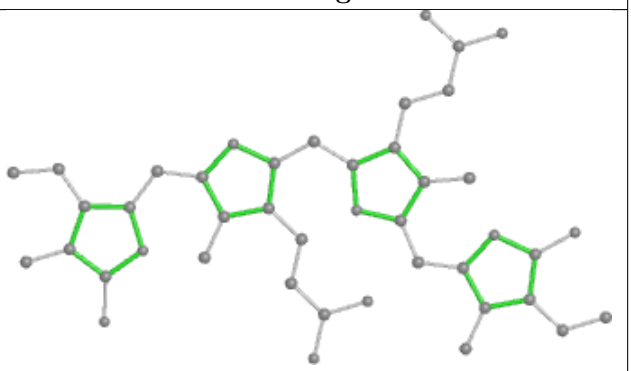


Bond angles

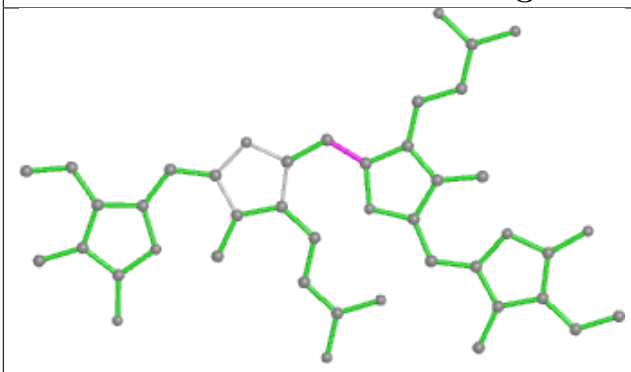


Torsions



Rings

Ligand CYC b2 201



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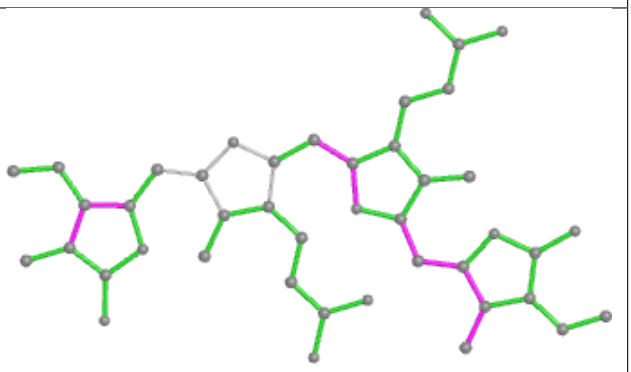
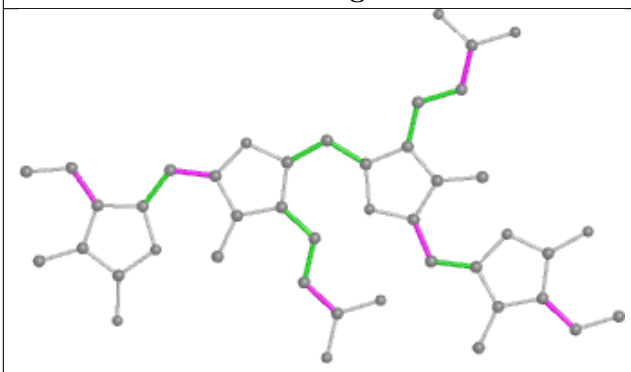


Bond angles



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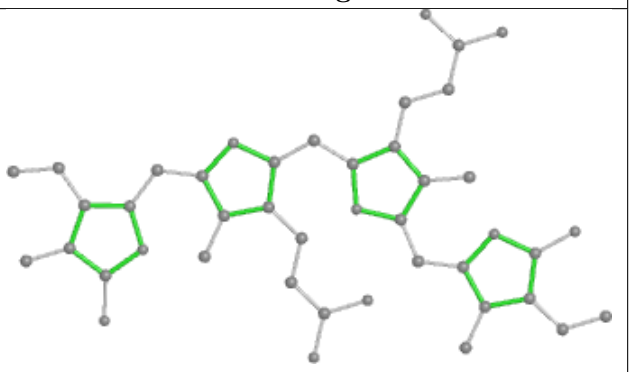
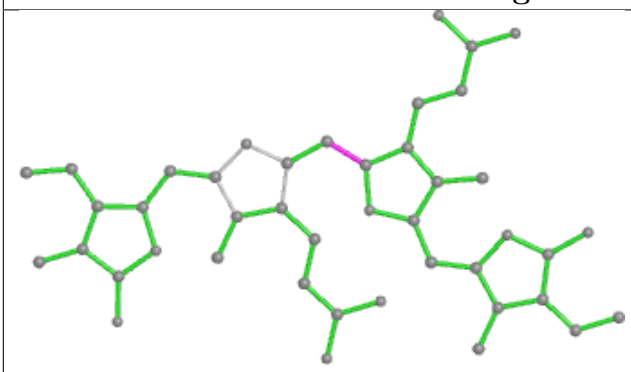


Rings

Ligand CYC V2 201



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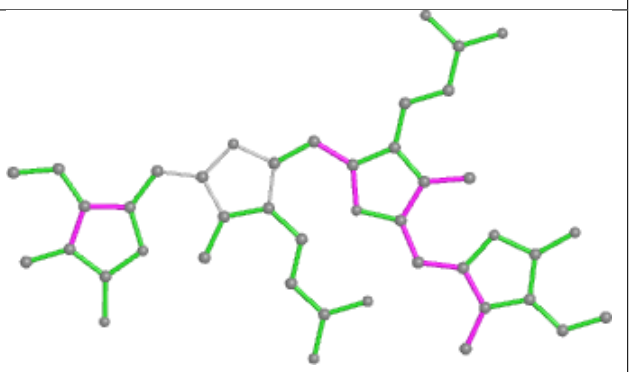

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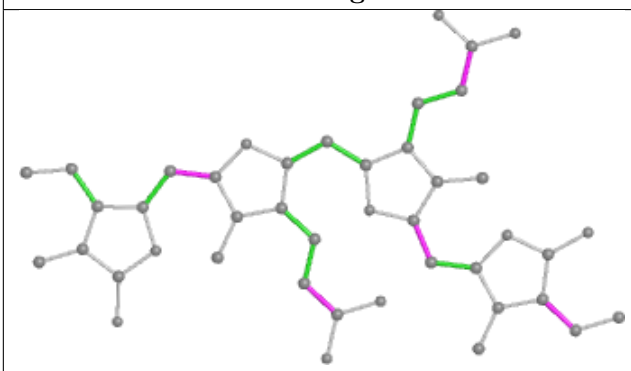

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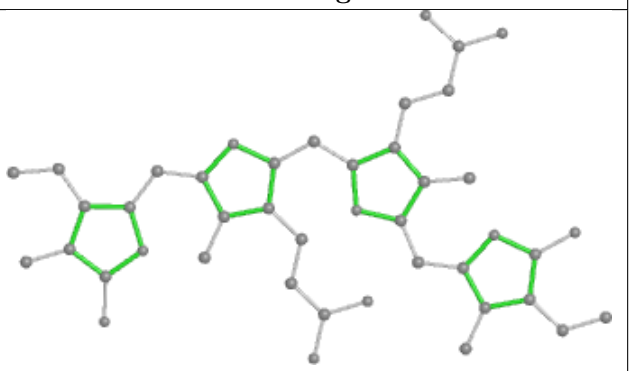
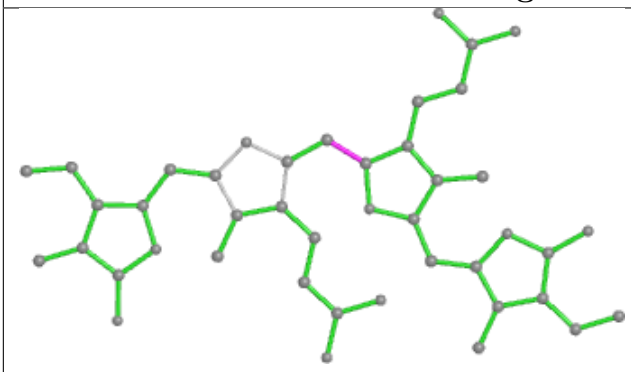


Rings

Ligand CYC q2 201



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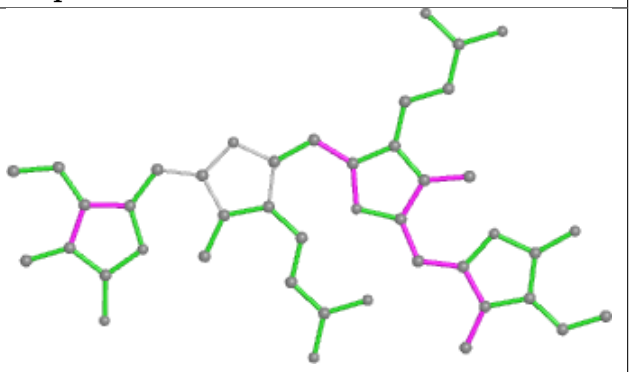

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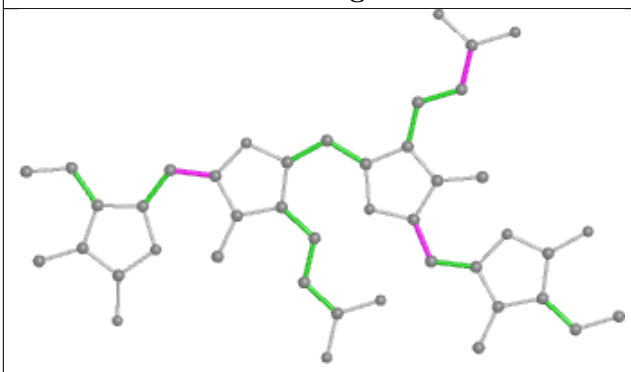

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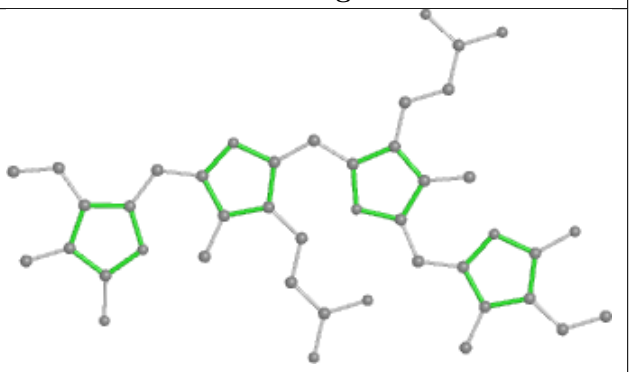
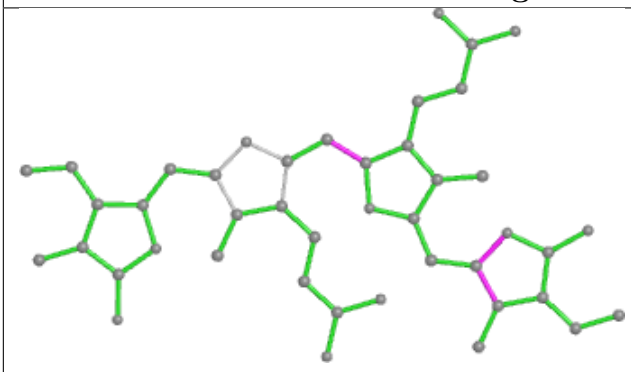


Rings

Ligand CYC j3 1202



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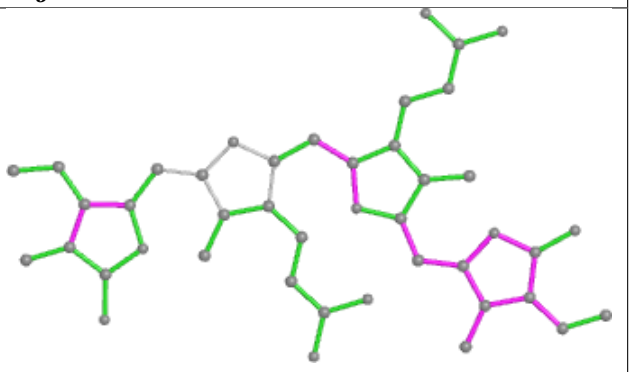

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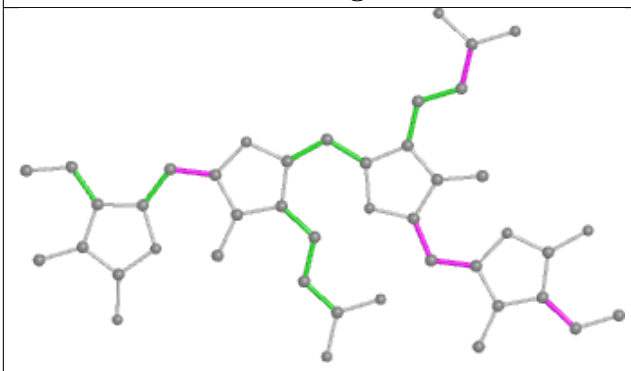

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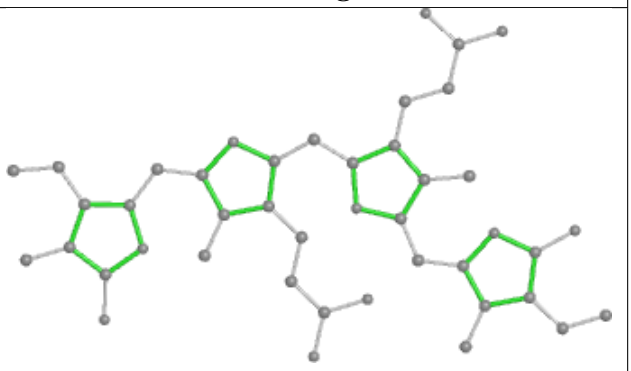
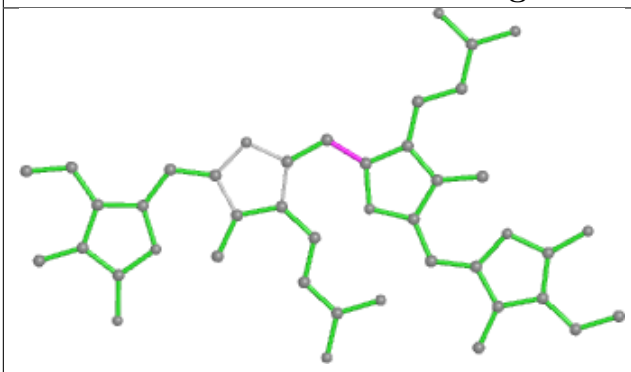


Rings

Ligand CYC M3 201



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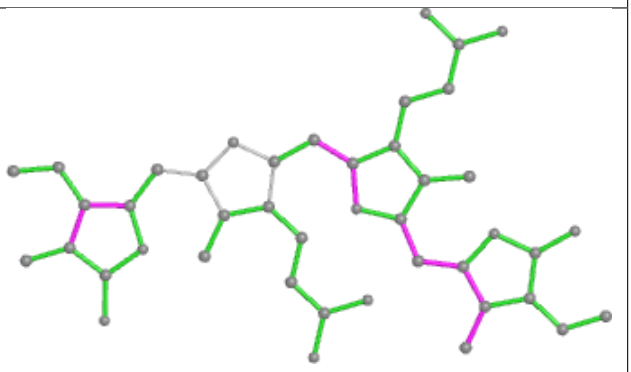
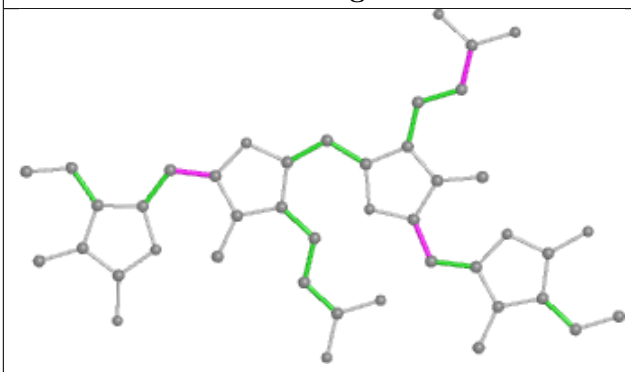


Bond angles



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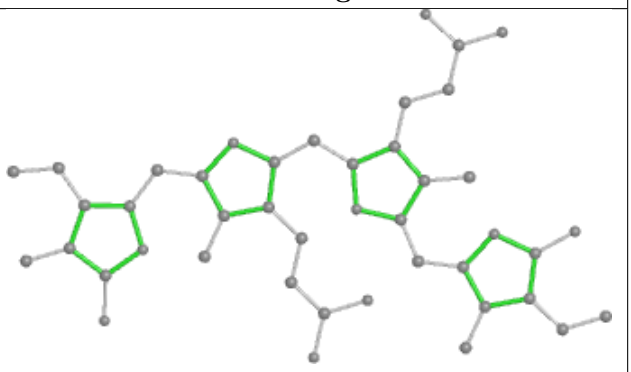
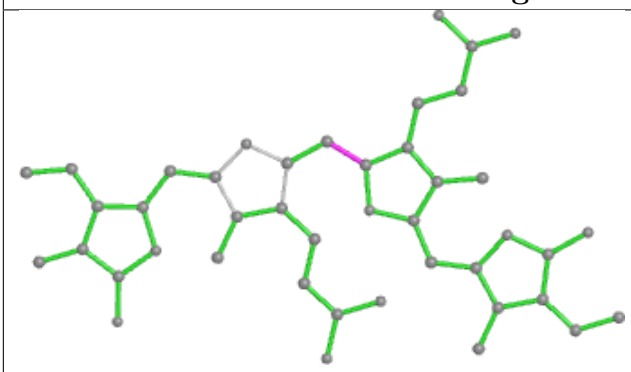


Rings

Ligand CYC j3 1204



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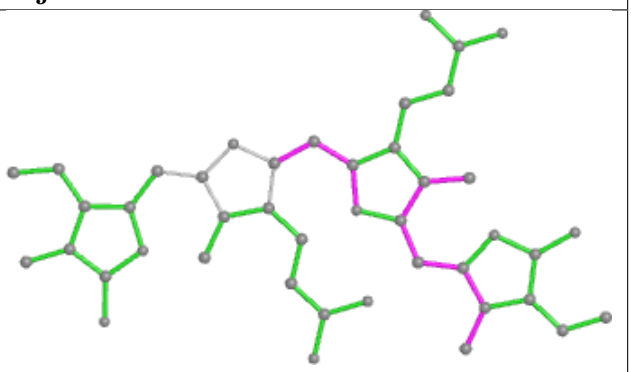

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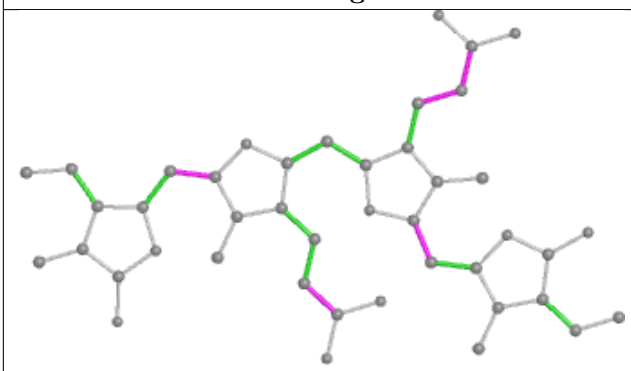

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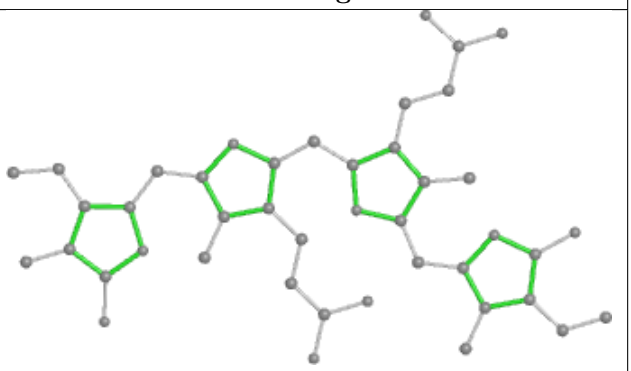
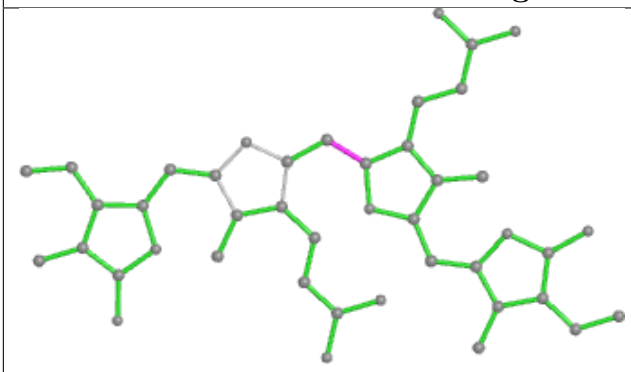


Rings

Ligand CYC H1 201



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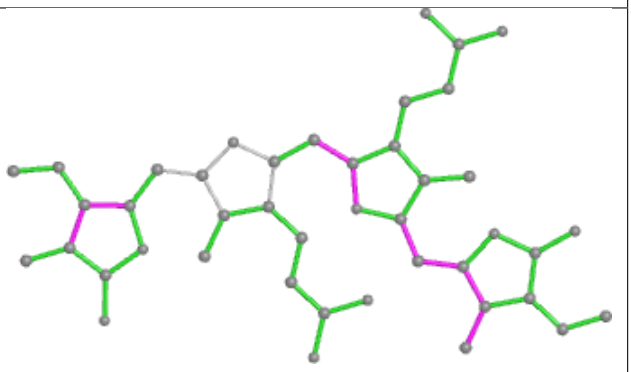
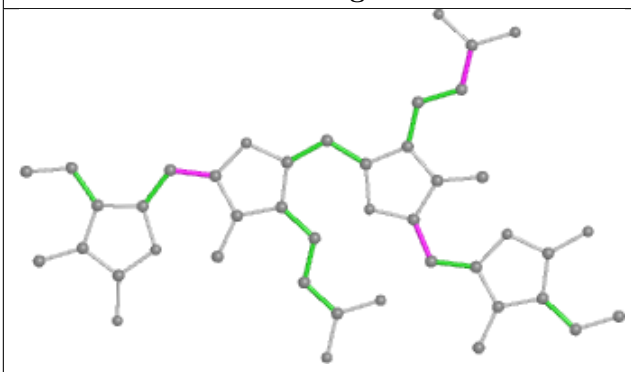


Bond angles



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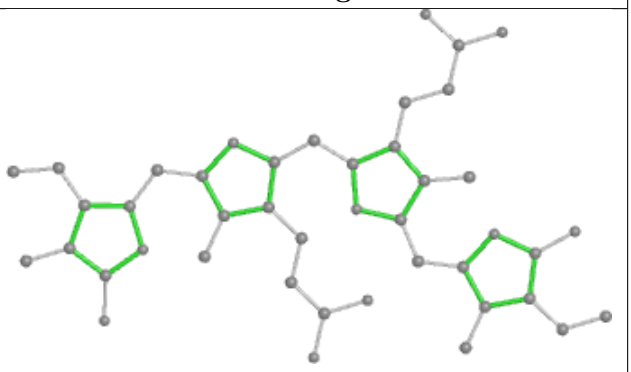
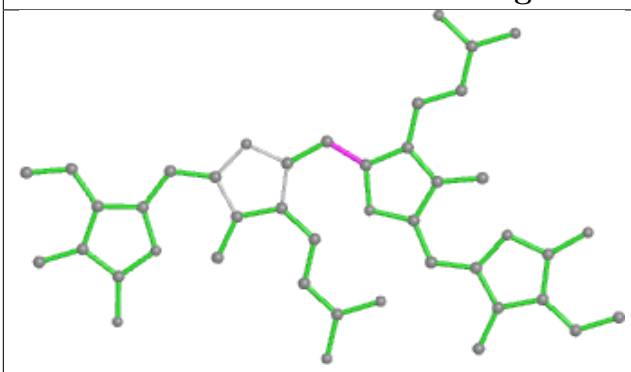
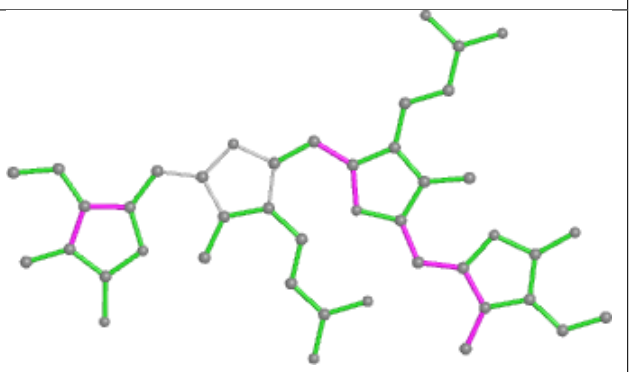


Rings

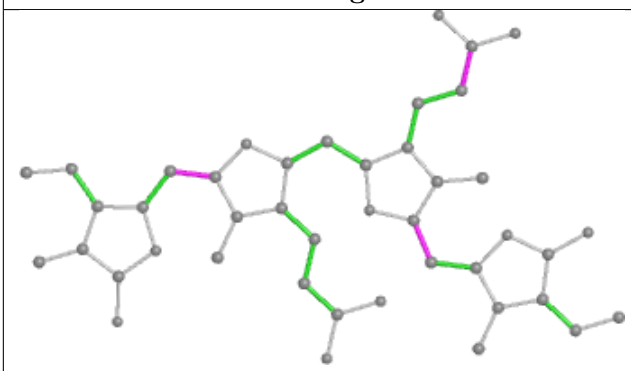
Ligand CYC E2 201



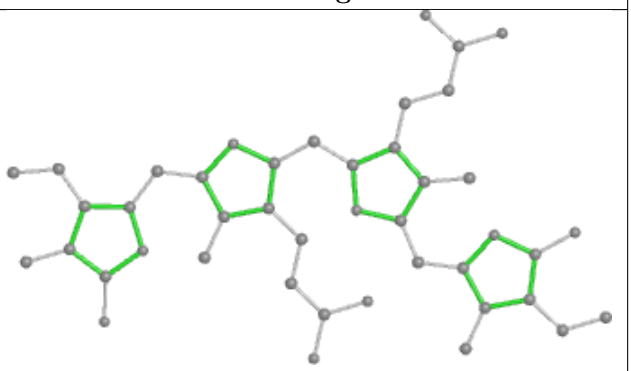
Bond lengths



Bond angles

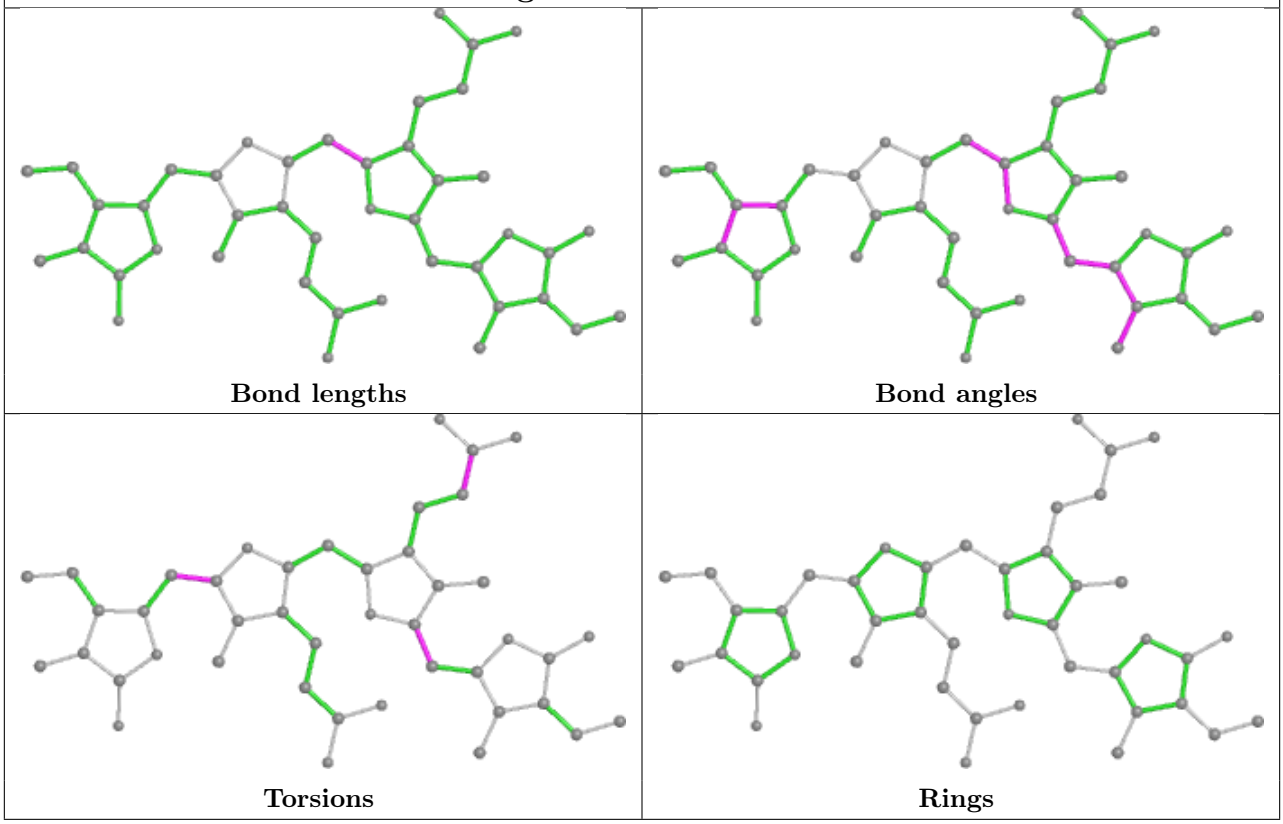


Torsions

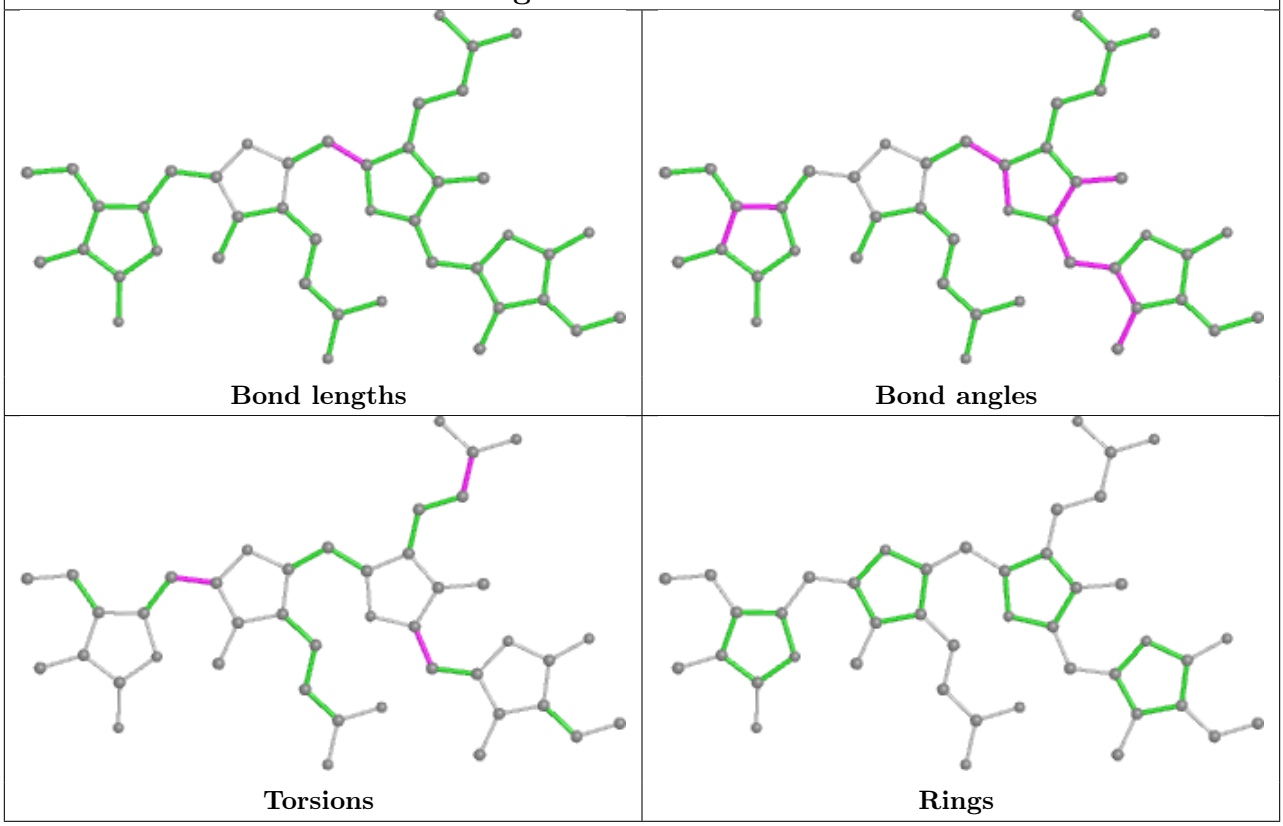


Rings

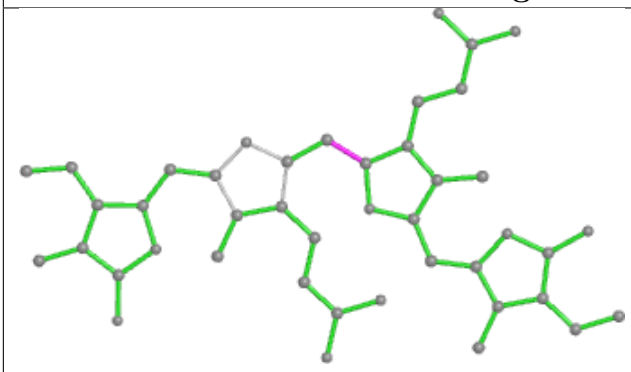
Ligand CYC u2 201



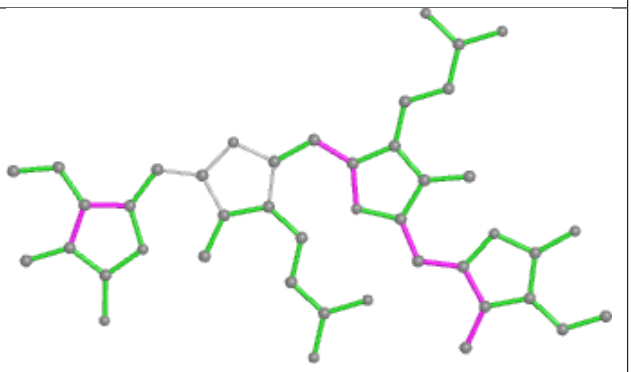
Ligand CYC U2 201



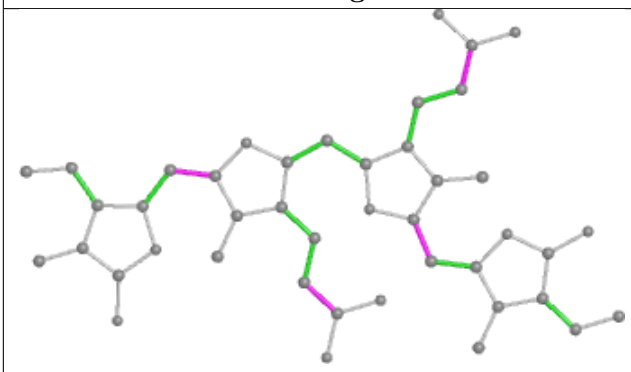
Ligand CYC V3 201



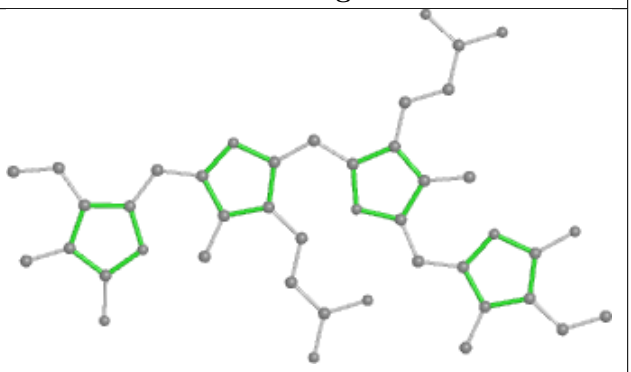
Bond lengths



Bond angles

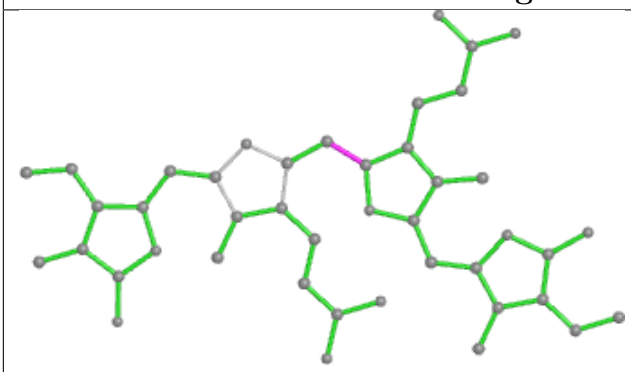


Torsions



Rings

Ligand CYC L1 201



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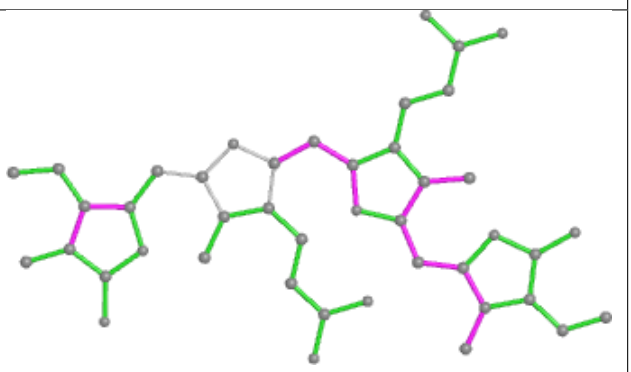
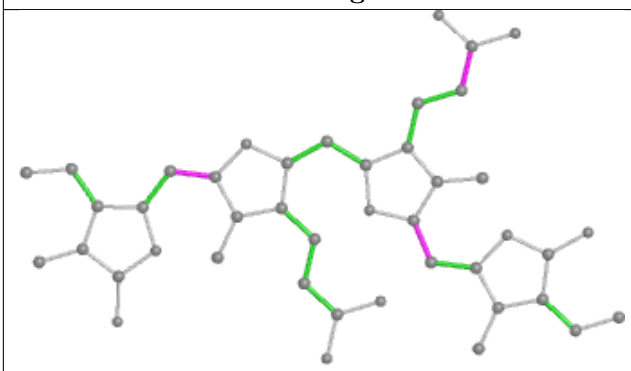


Bond angles



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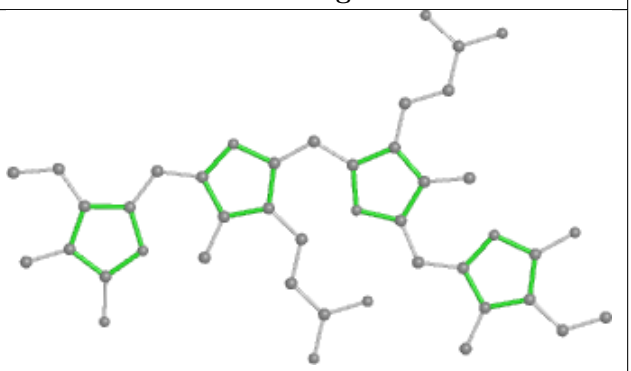
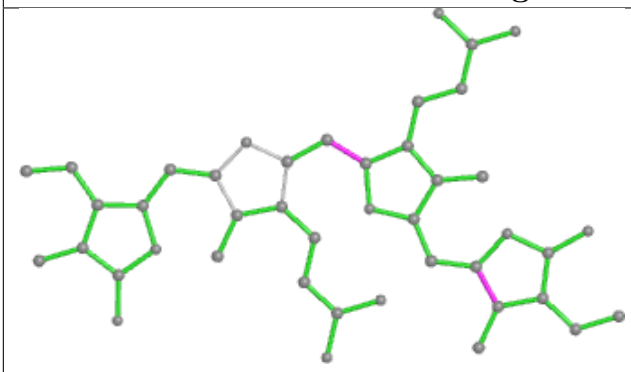


Rings

Ligand CYC j3 1203



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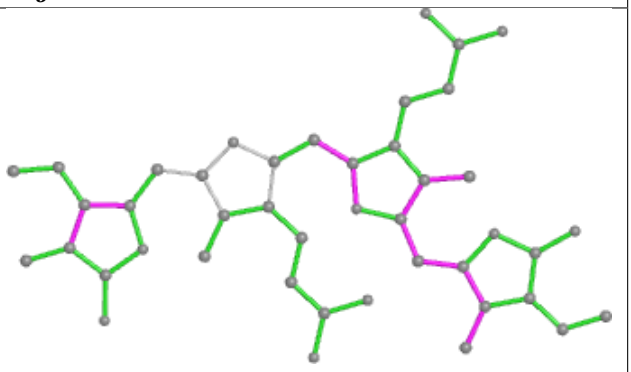
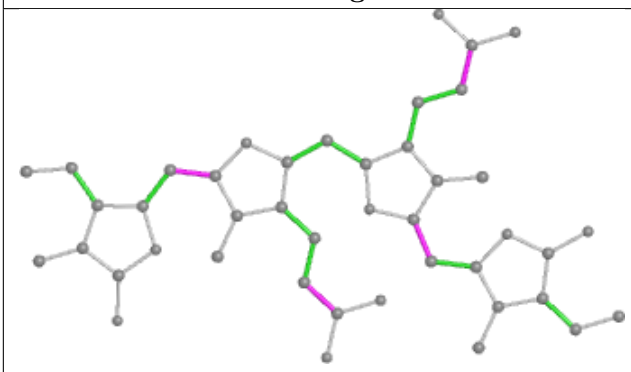


Bond angles



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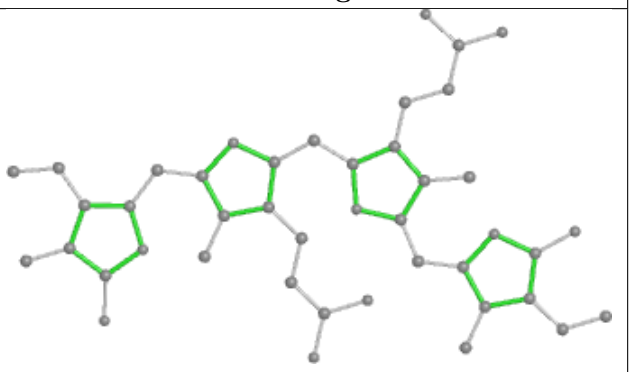
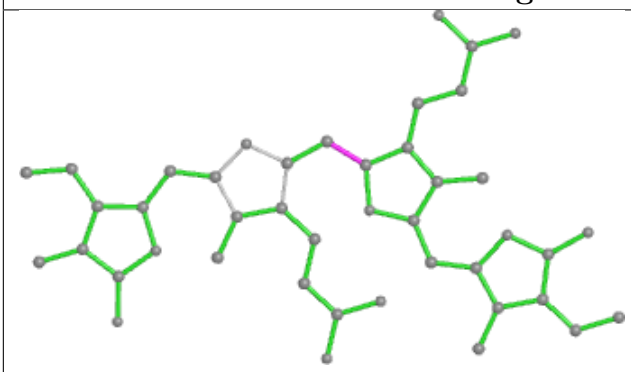


Rings

Ligand CYC p2 201



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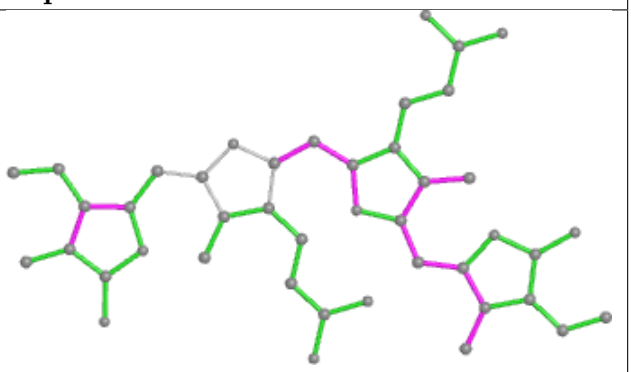
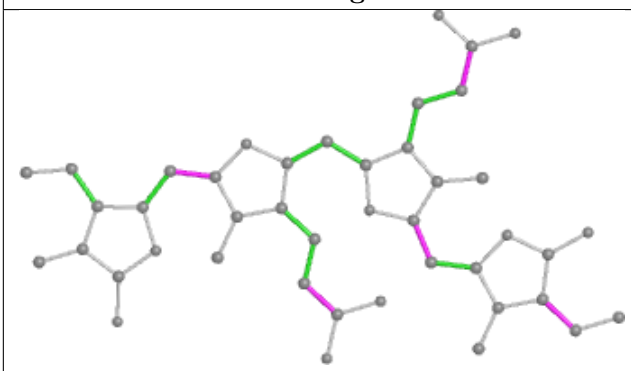


Bond angles



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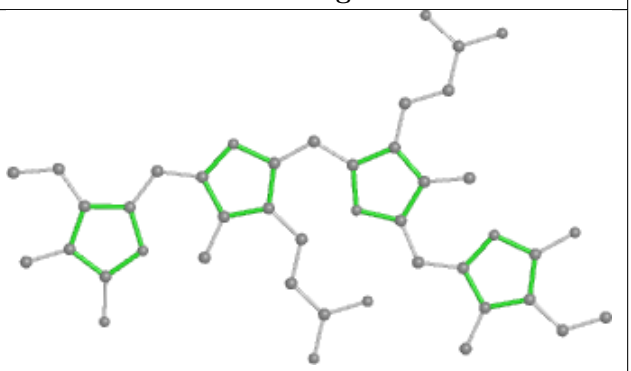
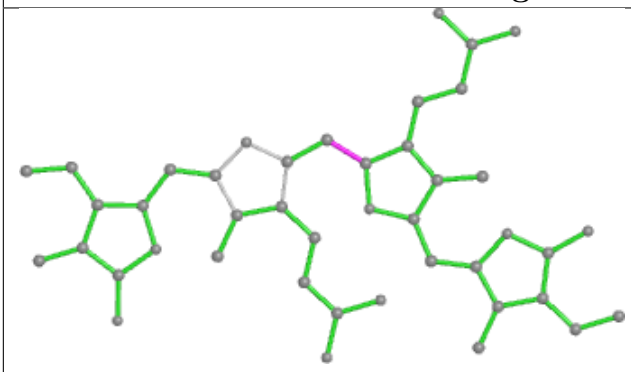


Rings

Ligand CYC H3 201



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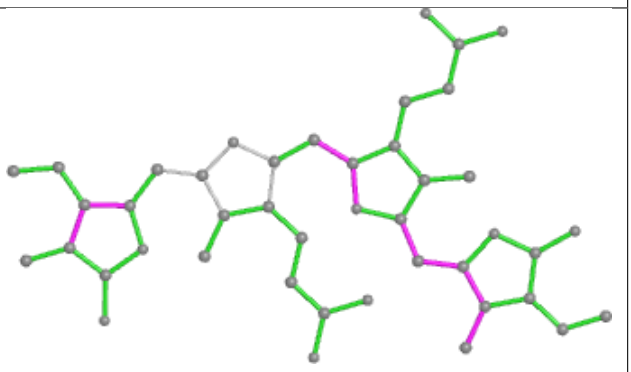
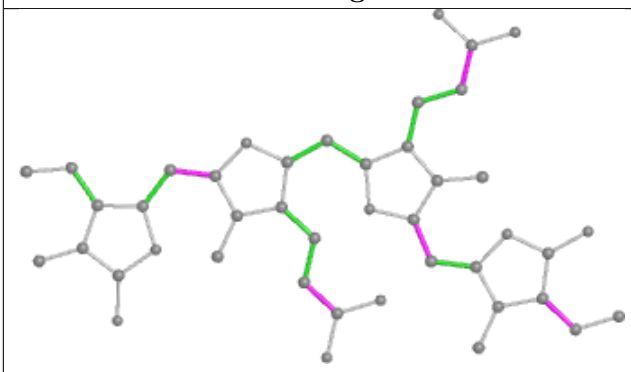


Bond angles



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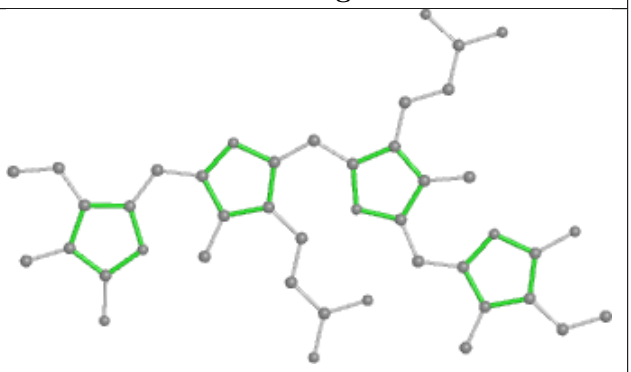
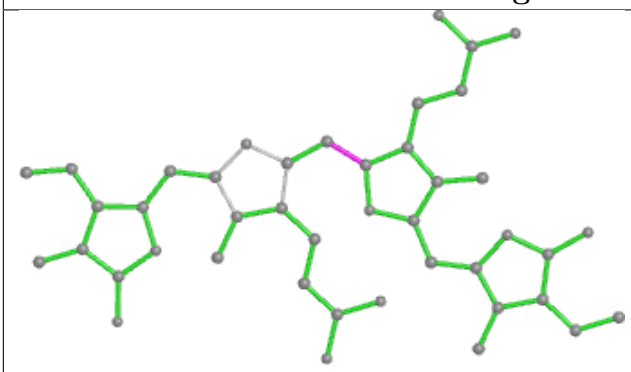


Rings

Ligand CYC R3 201



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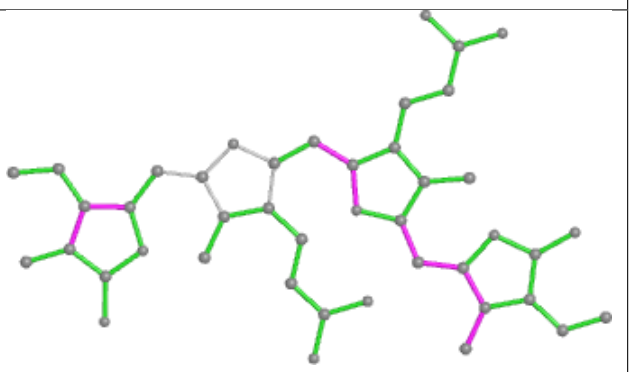

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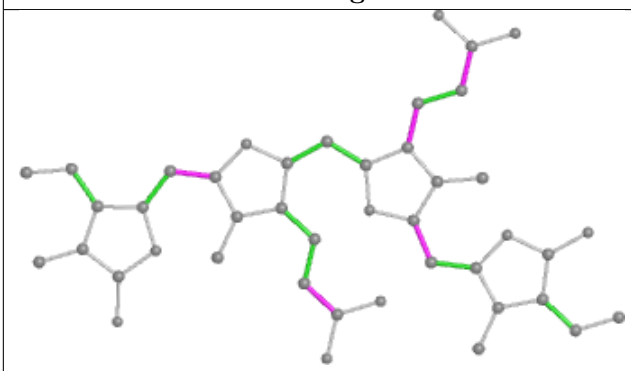

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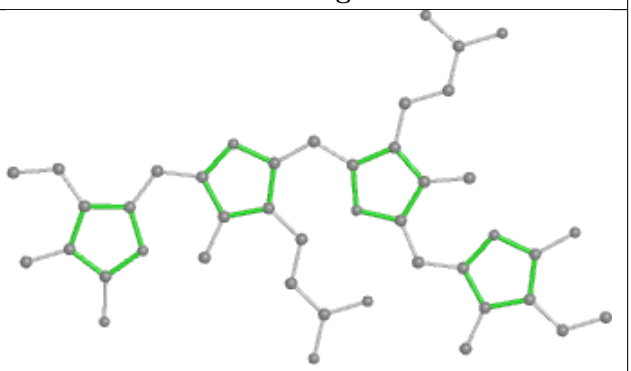
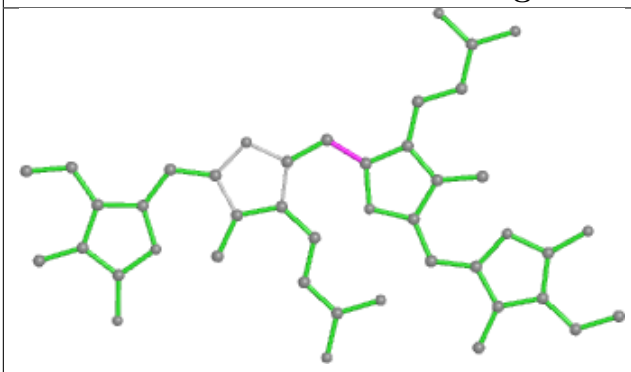


Rings

Ligand CYC T2 201



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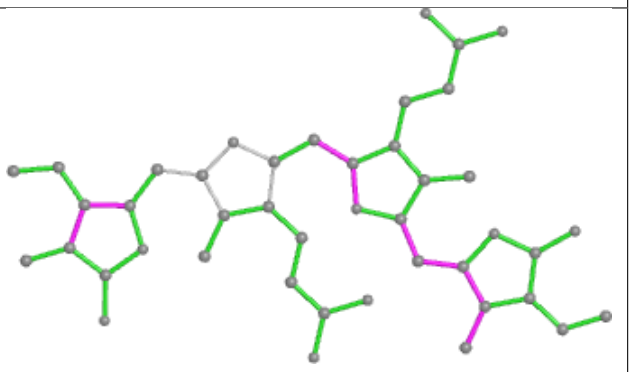
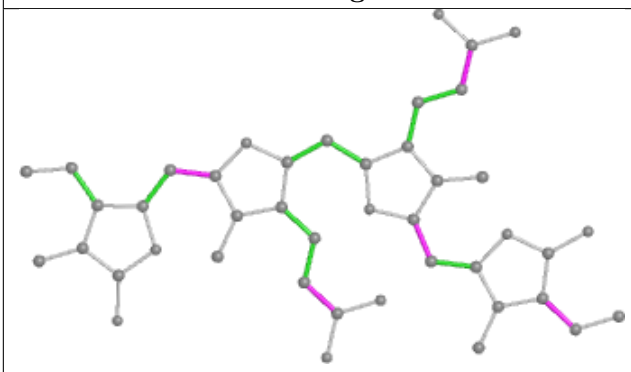


Bond angles



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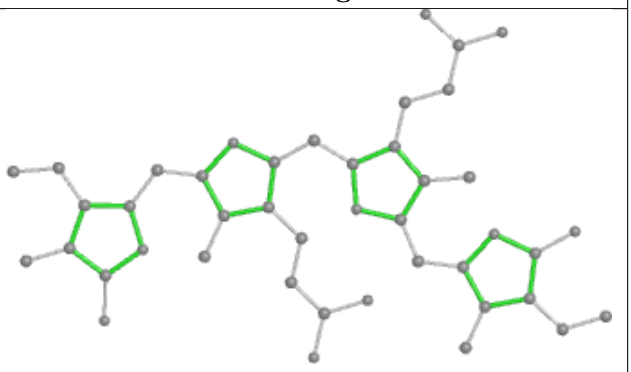
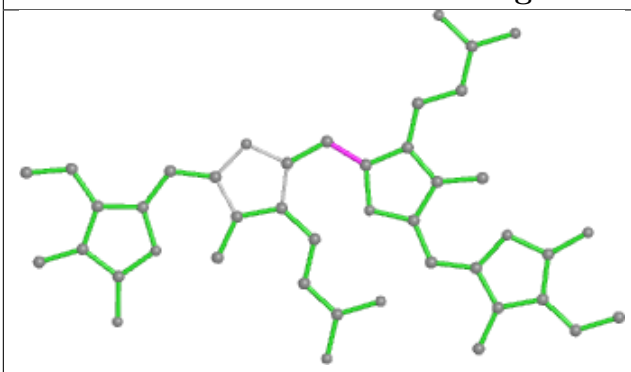


Rings

Ligand CYC F3 201



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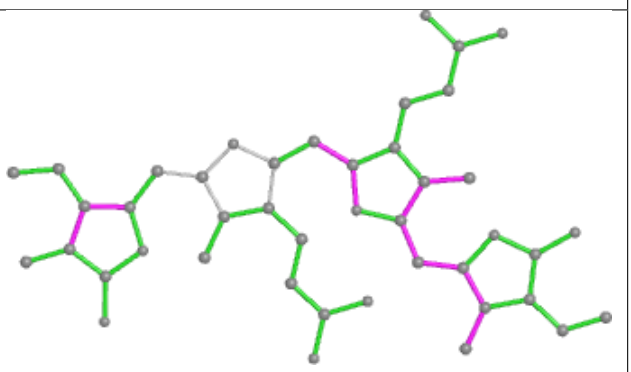
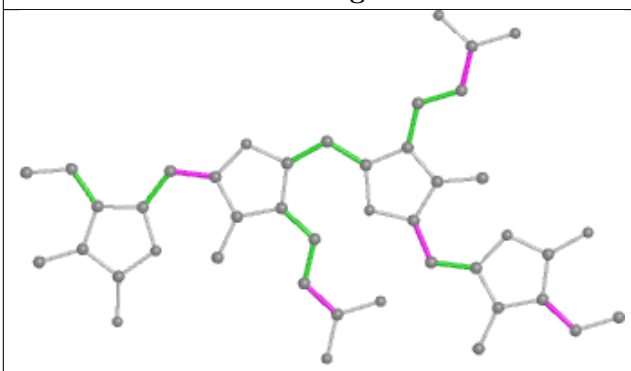


Bond angles



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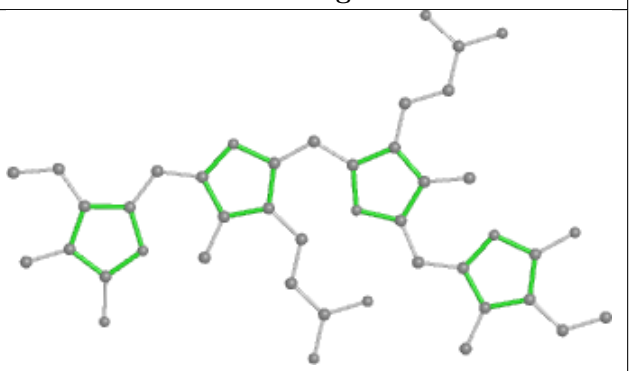
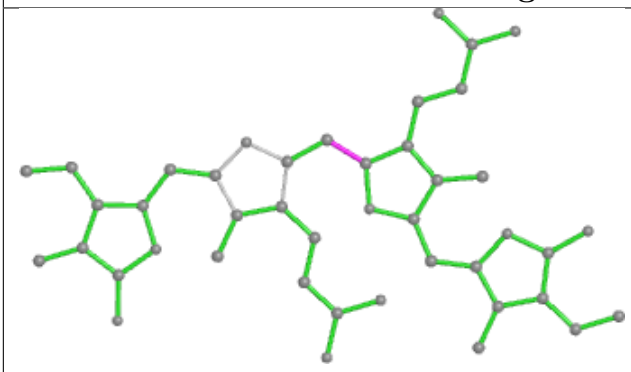
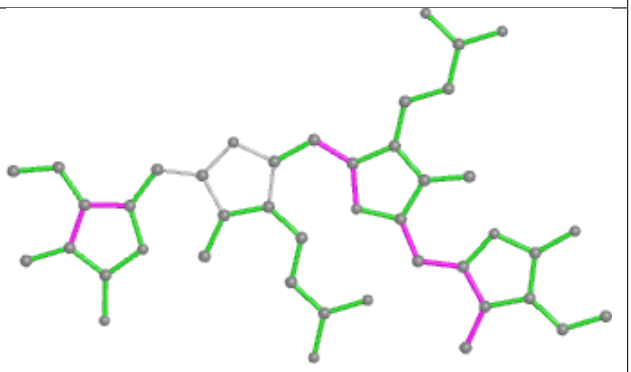


Rings

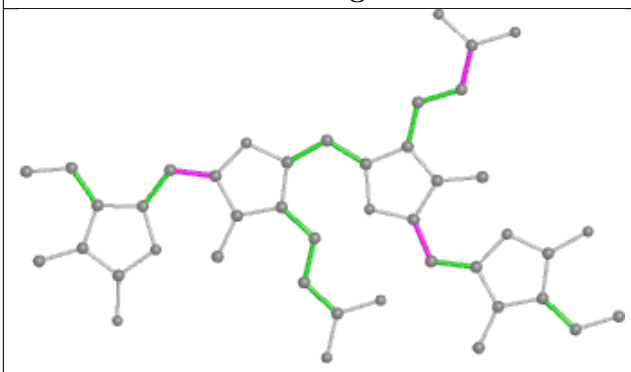
Ligand CYC c2 201



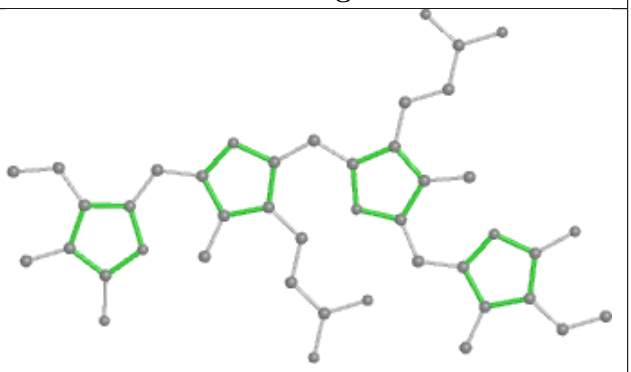
Bond lengths



Bond angles

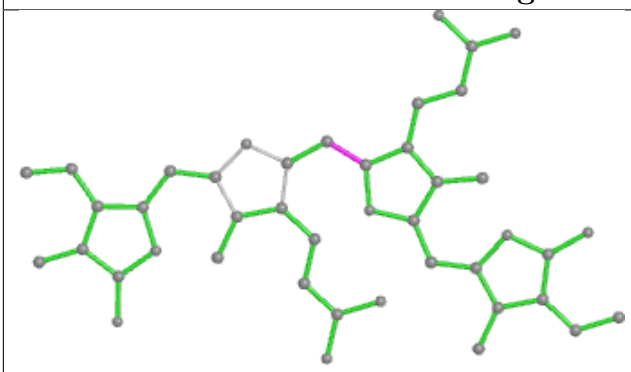


Torsions



Rings

Ligand CYC a3 201



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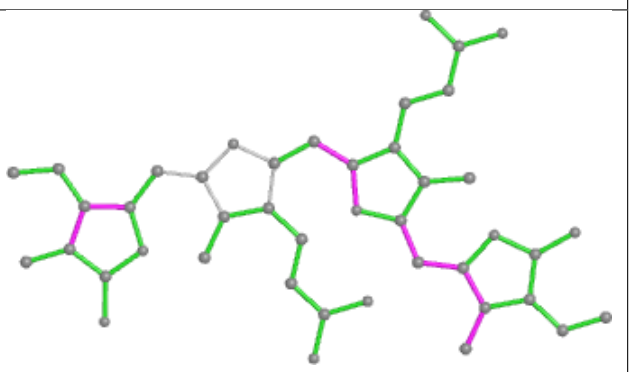
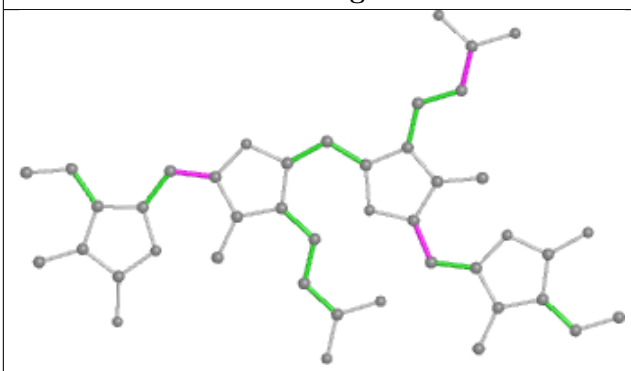


Bond angles



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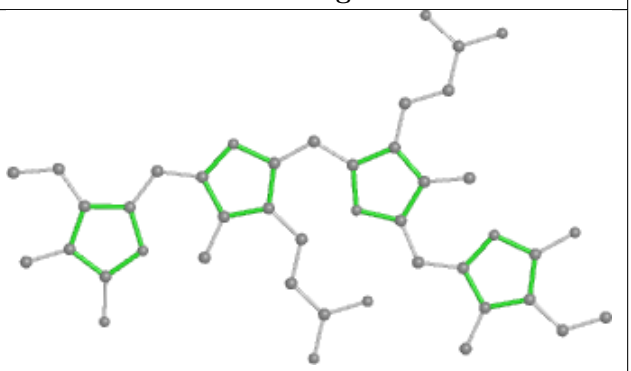
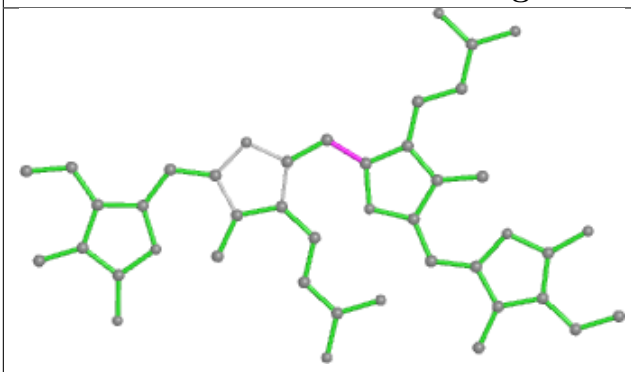


Rings

Ligand CYC G2 201



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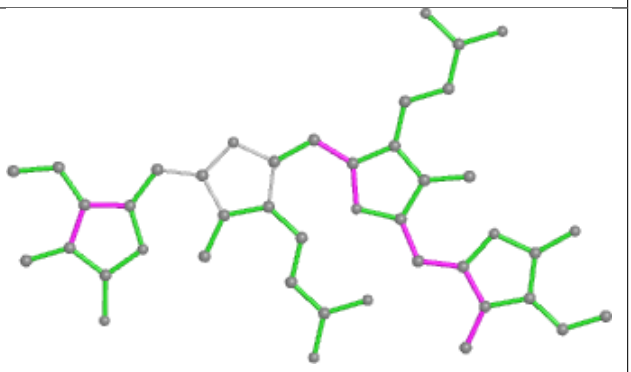

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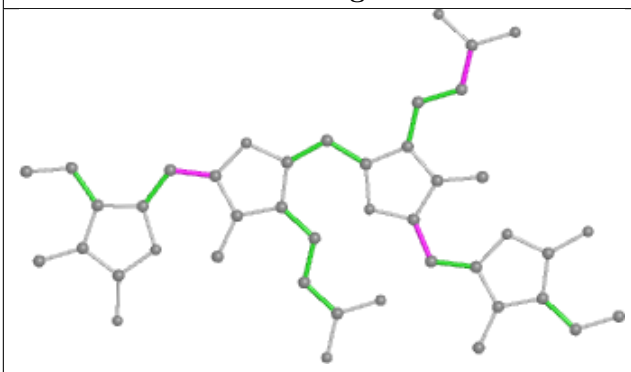

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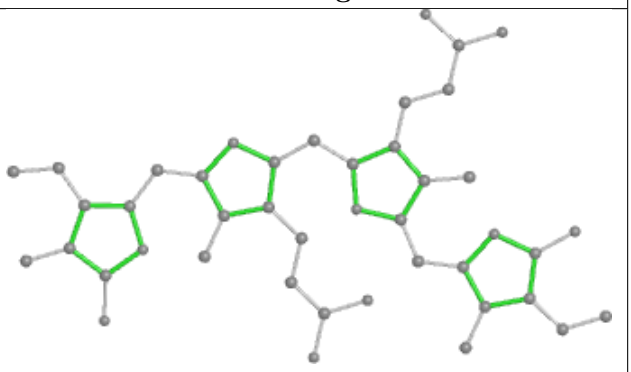
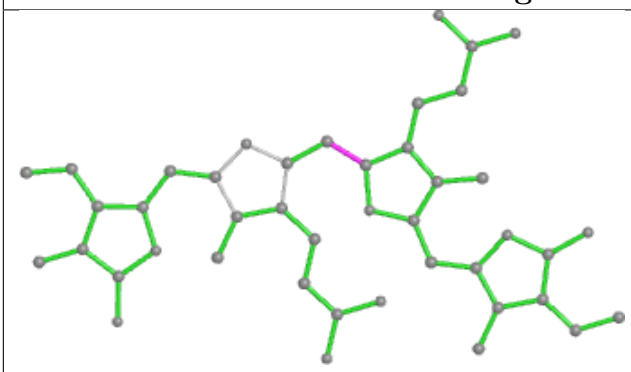


Rings

Ligand CYC F2 201



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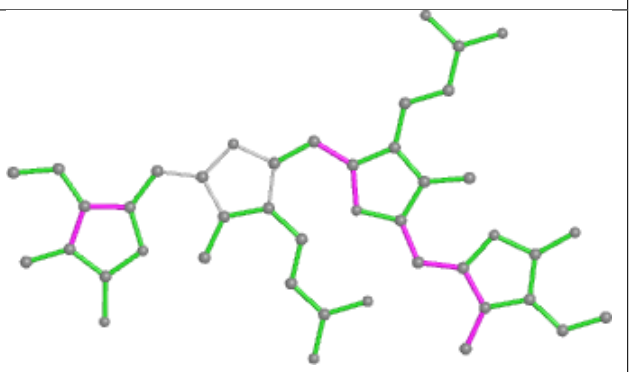
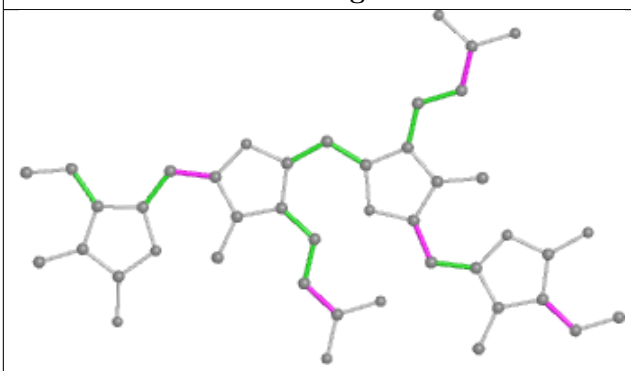


Bond angles



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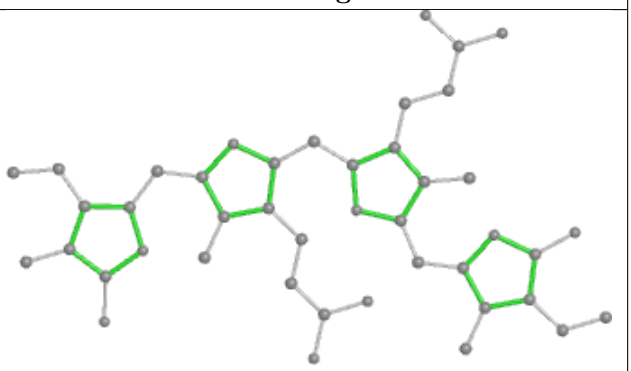
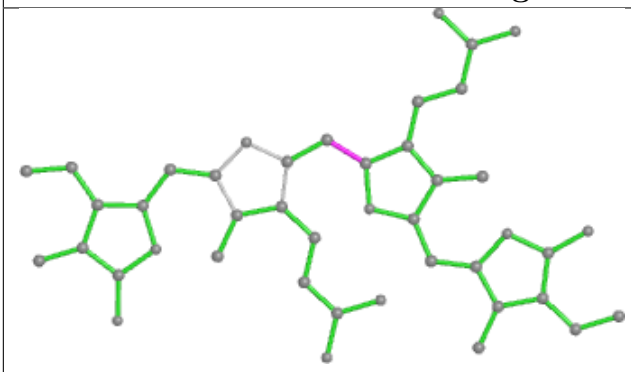
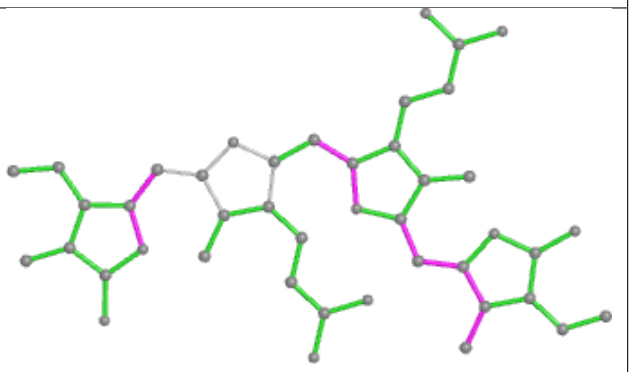


Rings

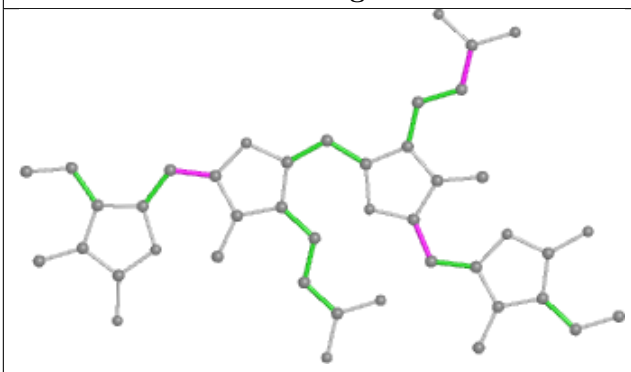
Ligand CYC G3 201



Bond lengths



Bond angles



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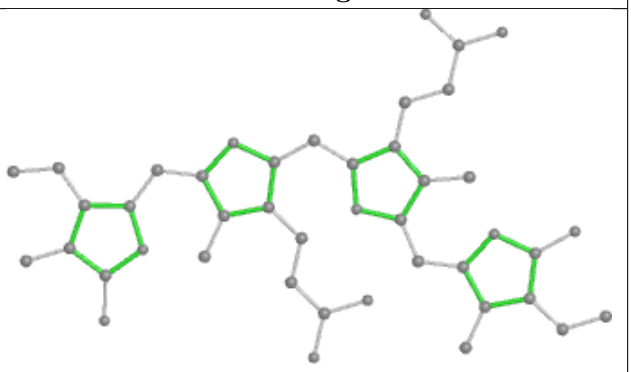
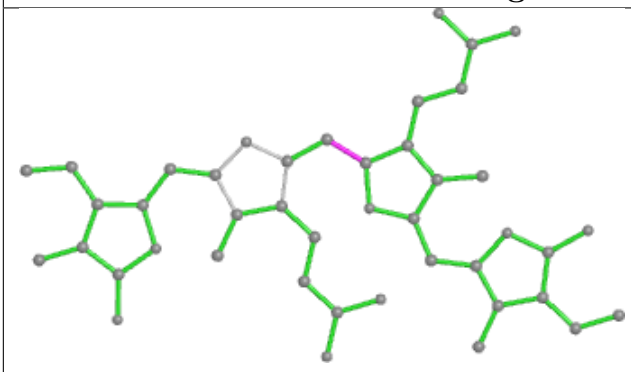


Rings

Ligand CYC k3 1202



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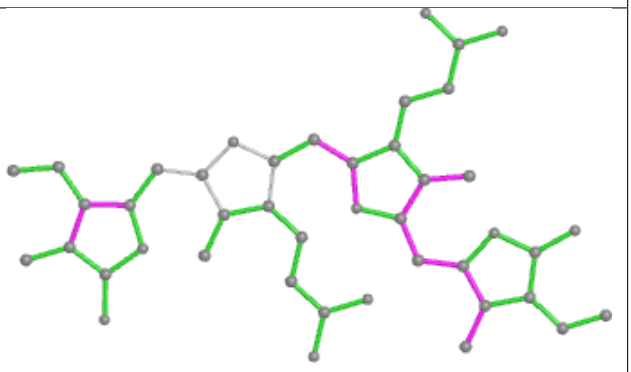
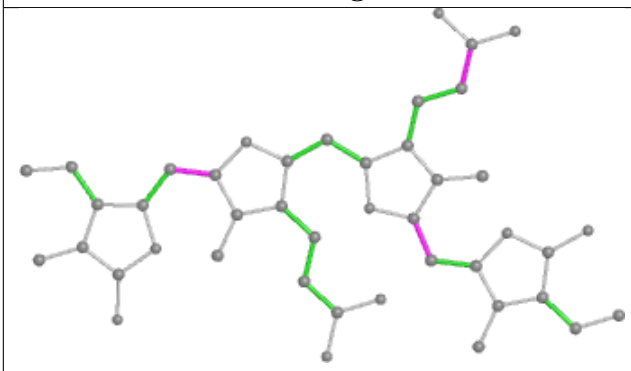


Bond angles



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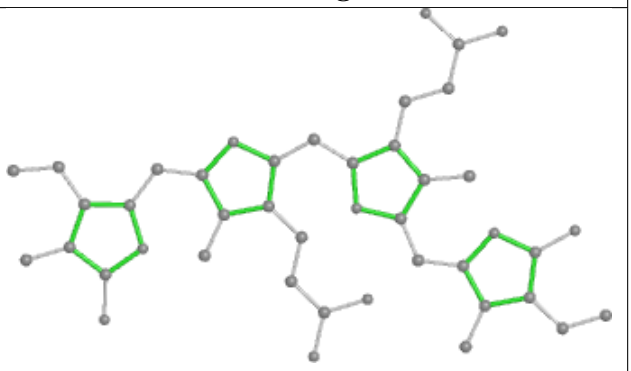
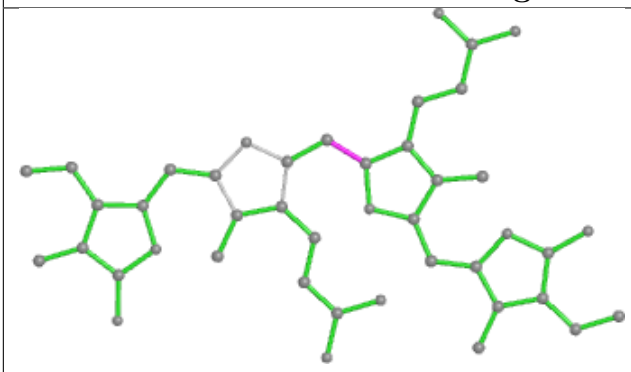
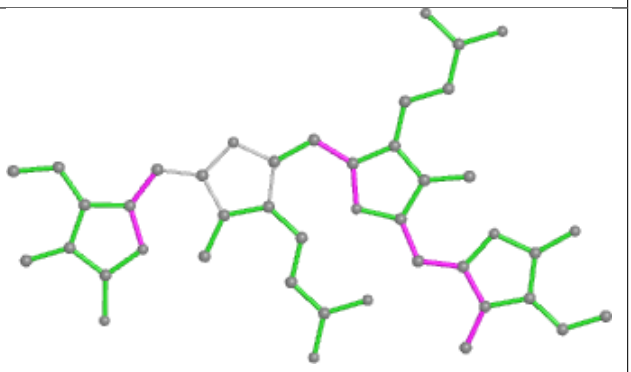


Rings

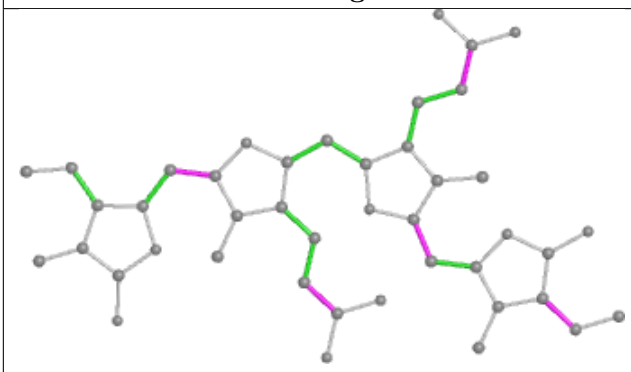
Ligand CYC B2 201



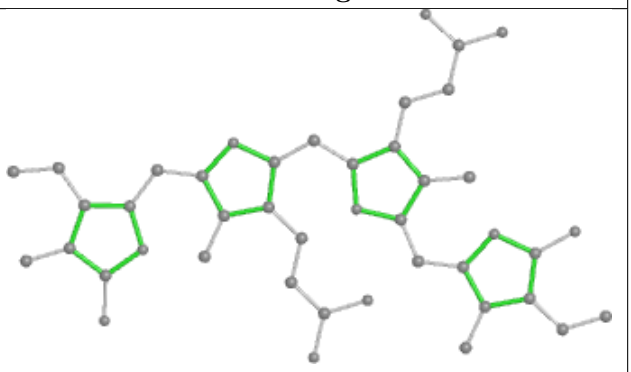
Bond lengths



Bond angles

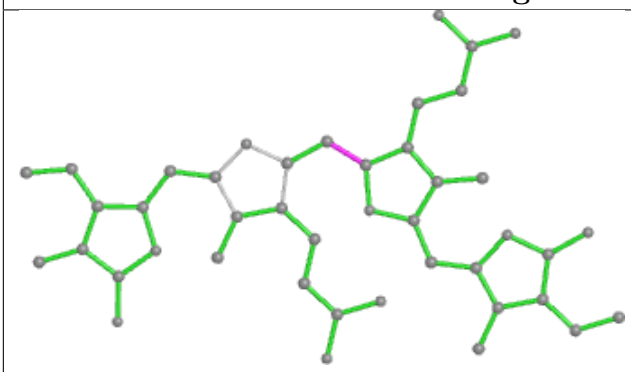


Torsions



Rings

Ligand CYC Y2 201



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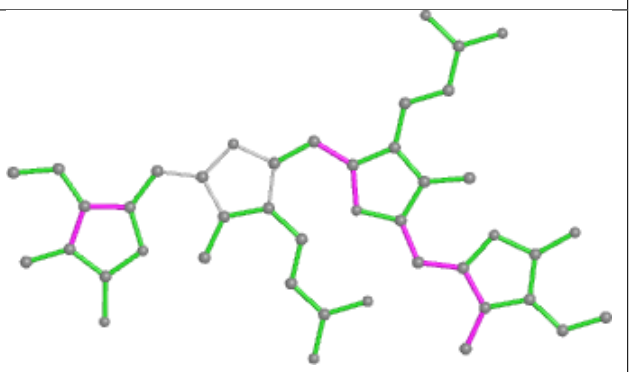

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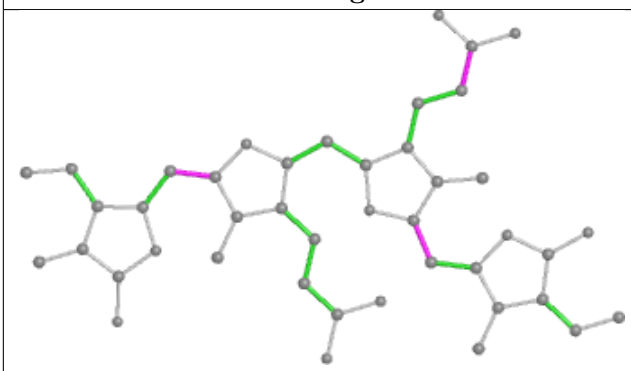

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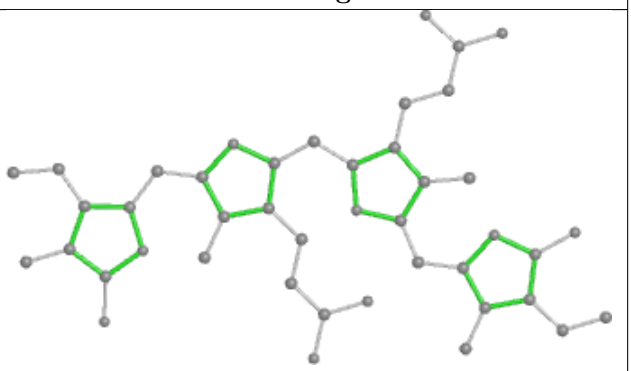
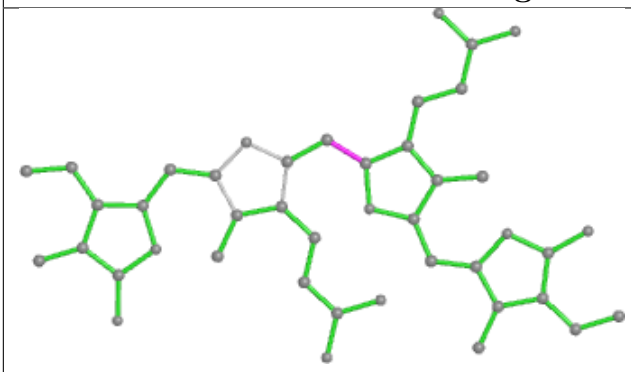


Rings

Ligand CYC E3 201



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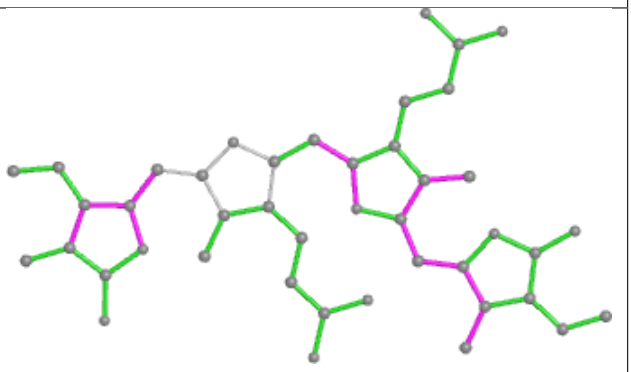

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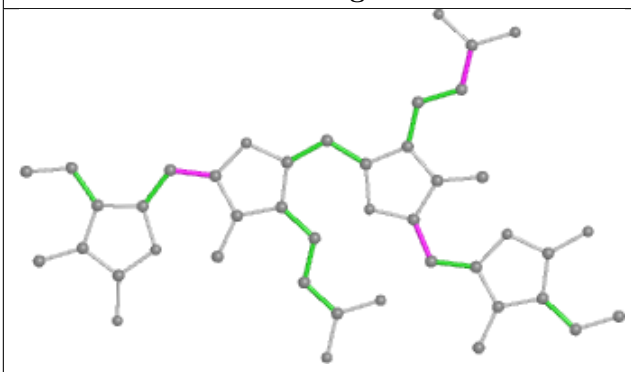

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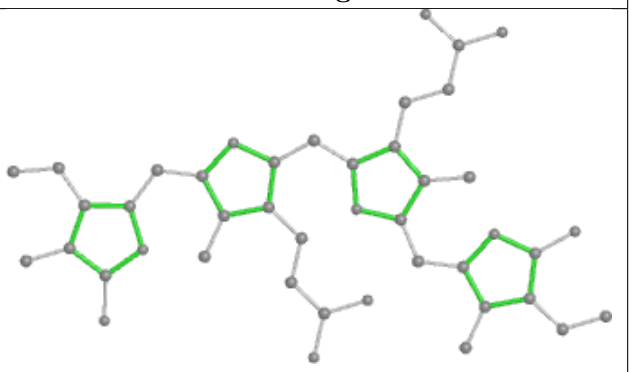
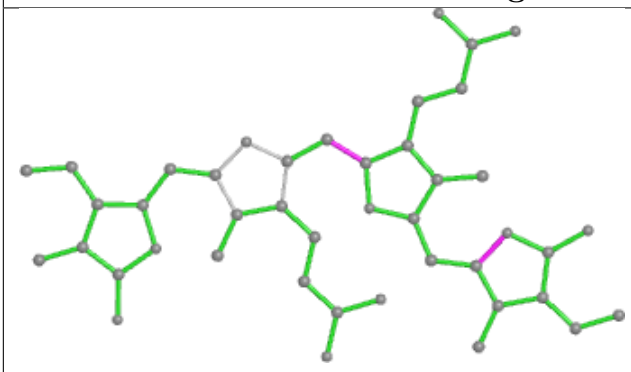


Rings

Ligand CYC k3 1207



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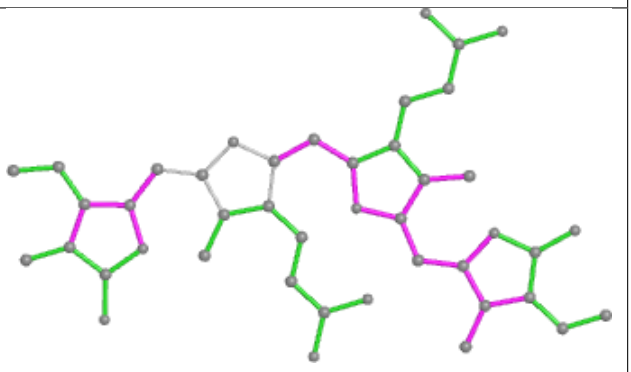

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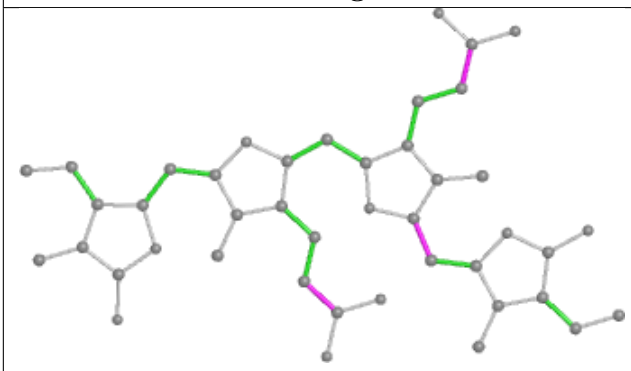

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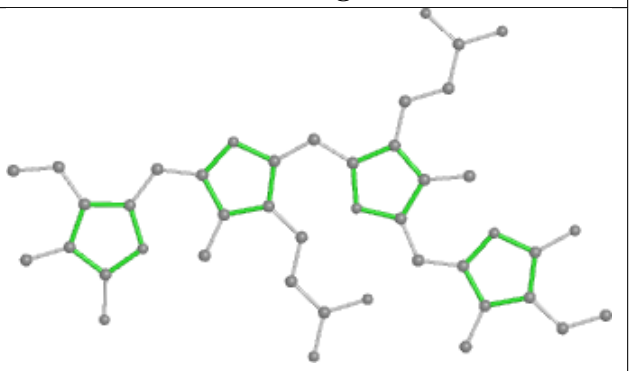
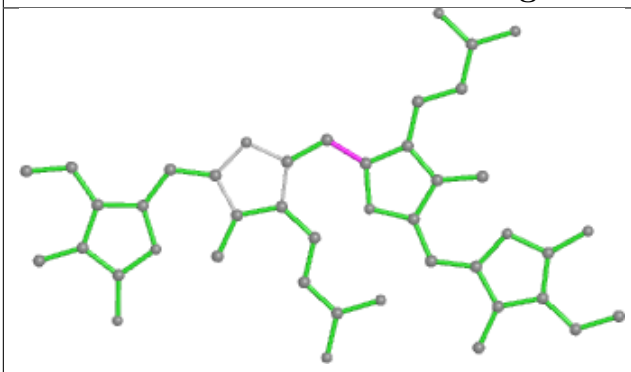


Rings

Ligand CYC I2 201



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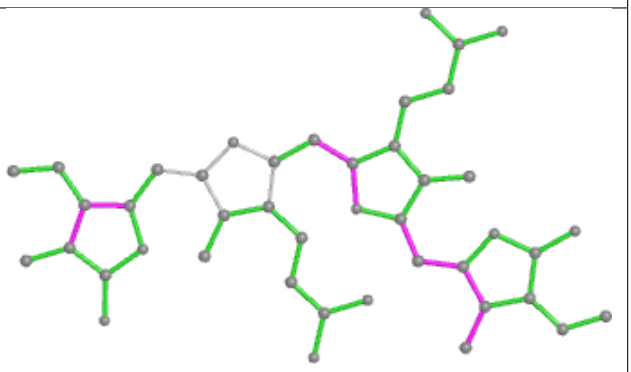

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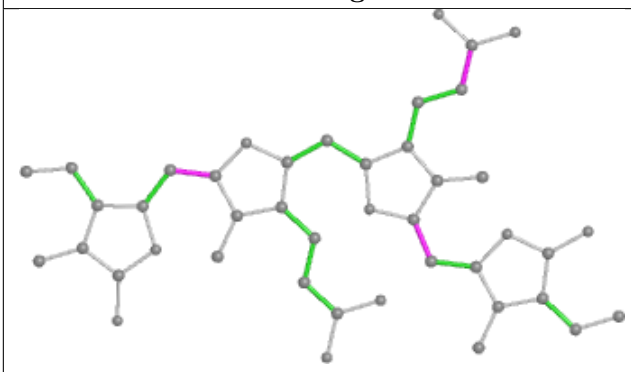

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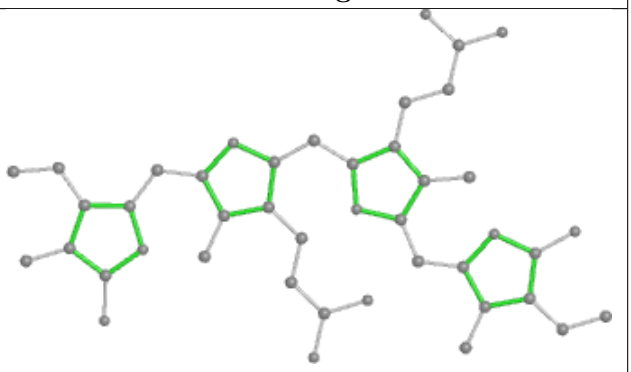
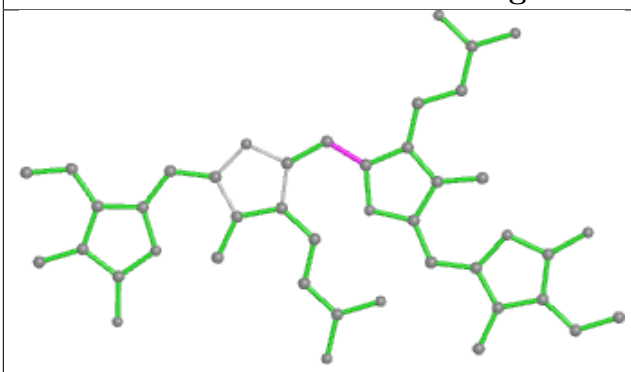


Rings

Ligand CYC M2 201



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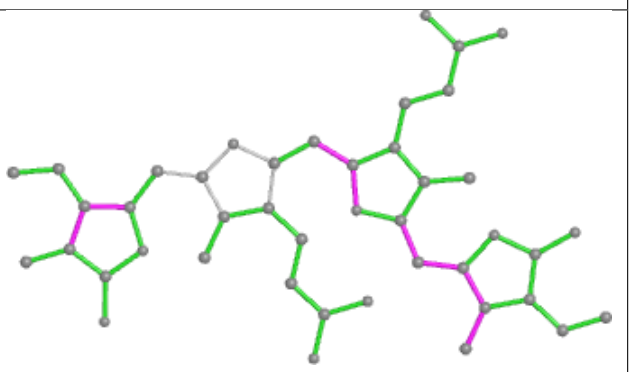

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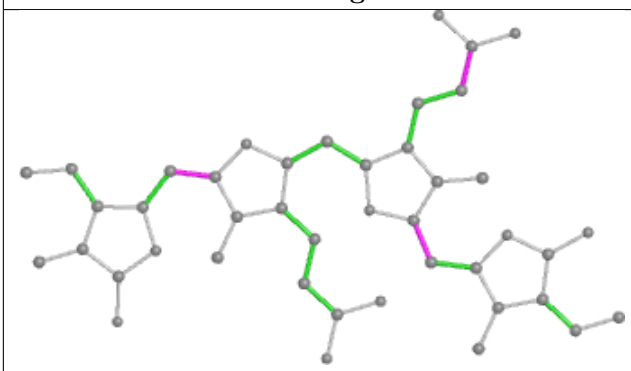

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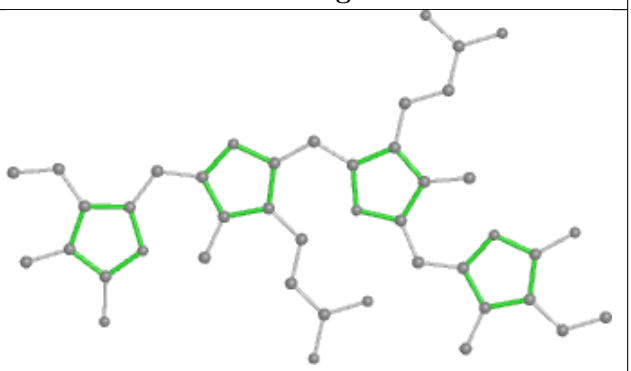
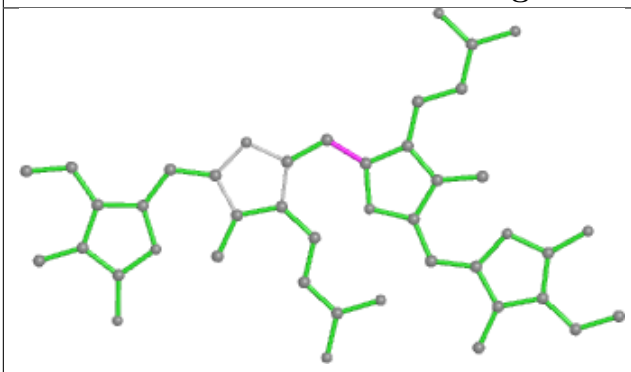


Rings

Ligand CYC j3 1206



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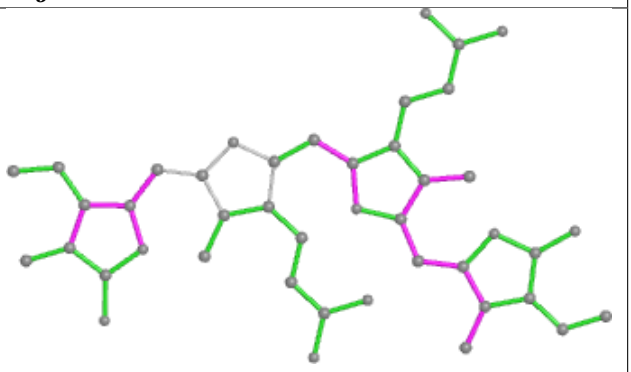

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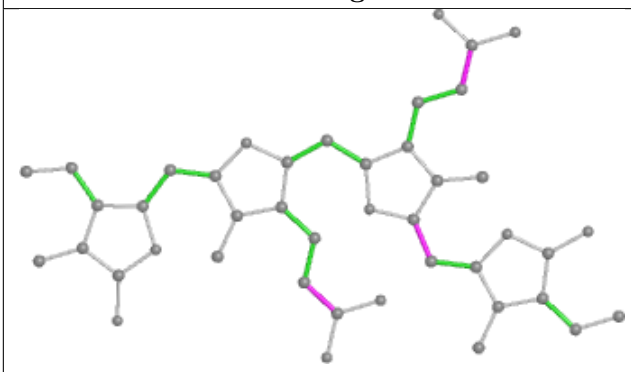

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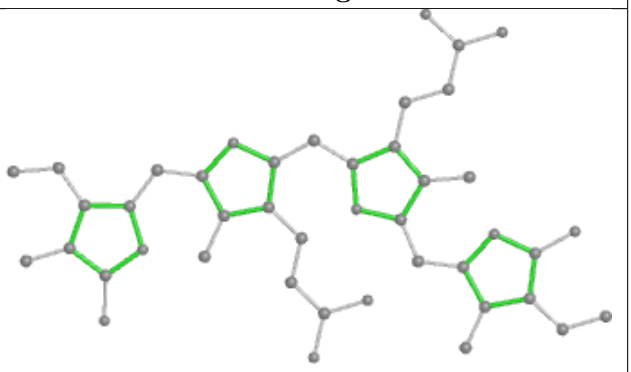
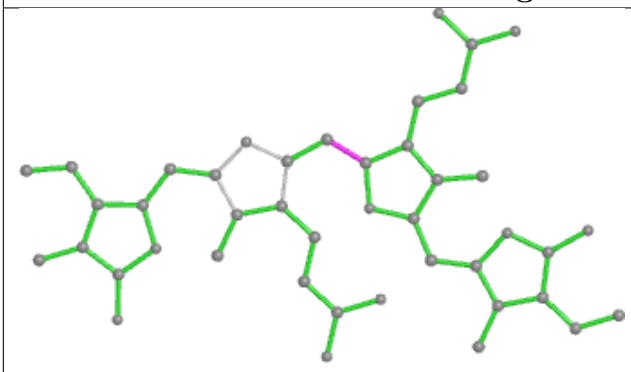


Rings

Ligand CYC d3 201



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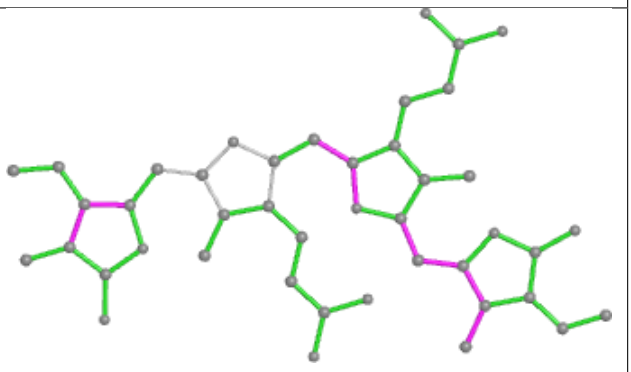

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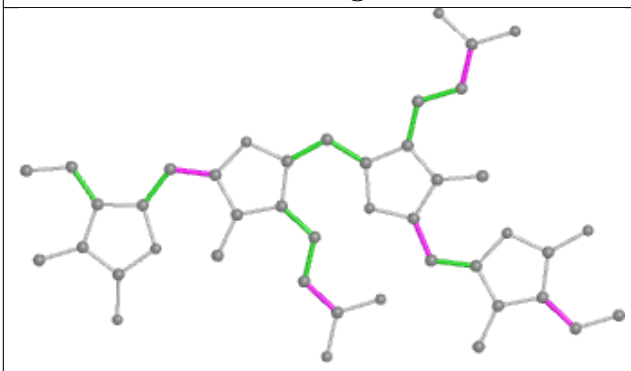

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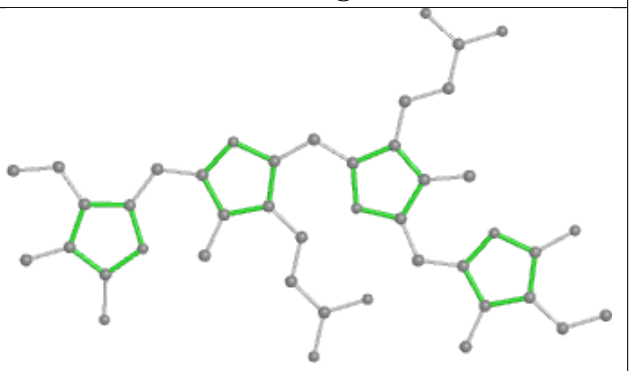
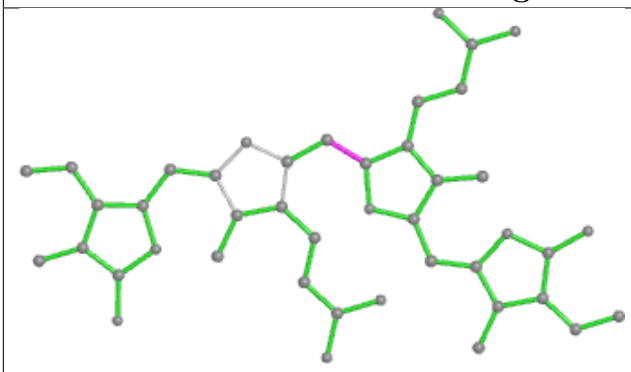


Rings

Ligand CYC R2 201



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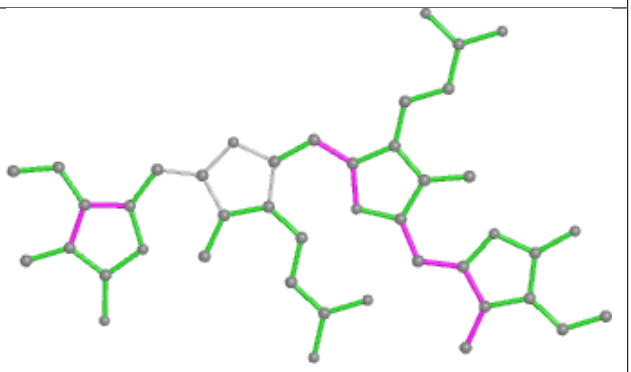
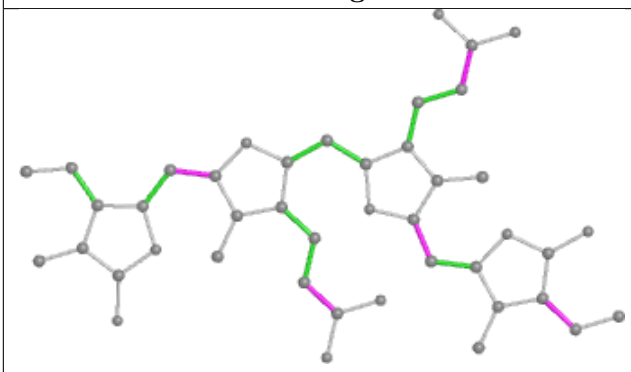


Bond angles



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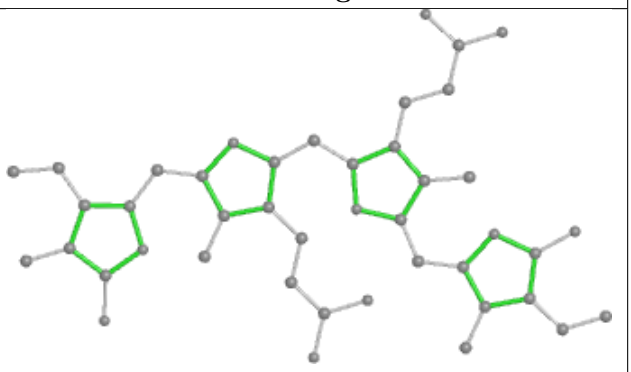
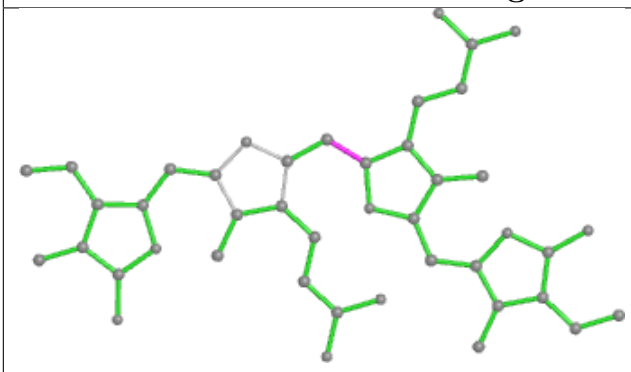


Rings

Ligand CYC k3 1206



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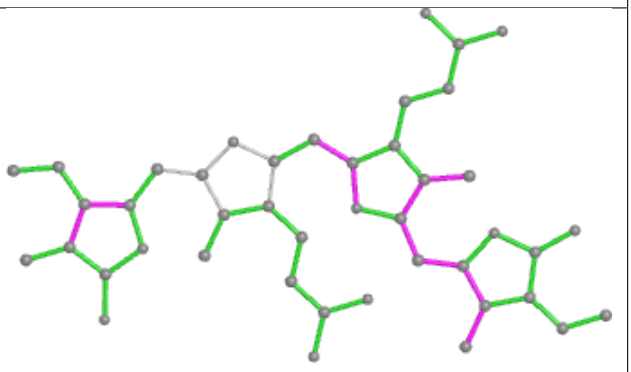

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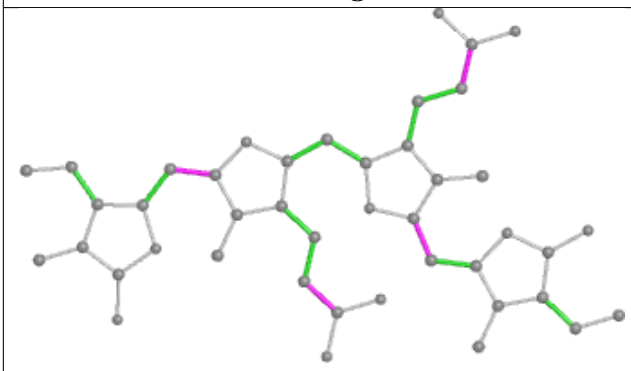

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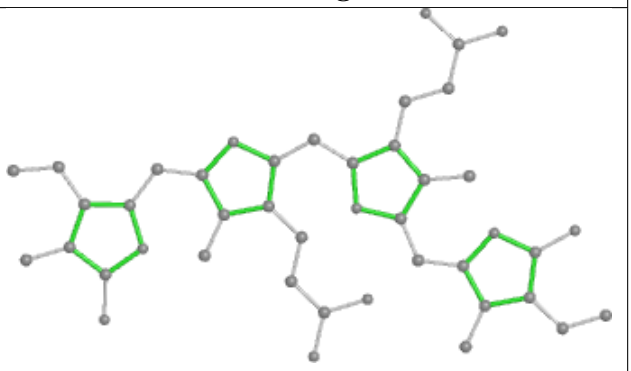
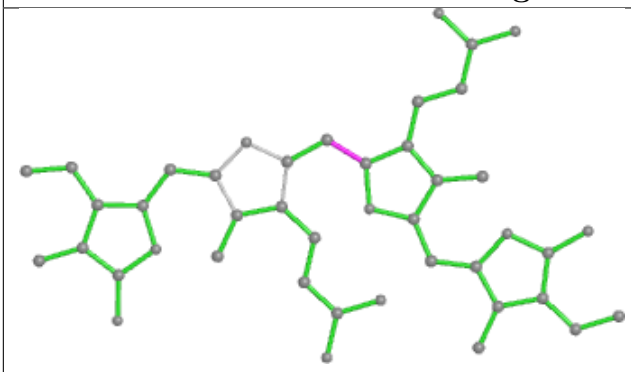


Rings

Ligand CYC A2 201



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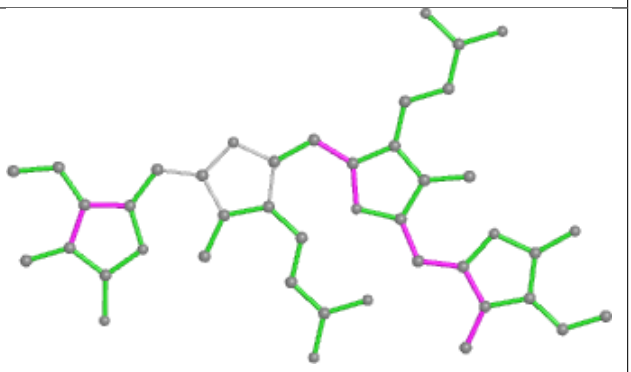
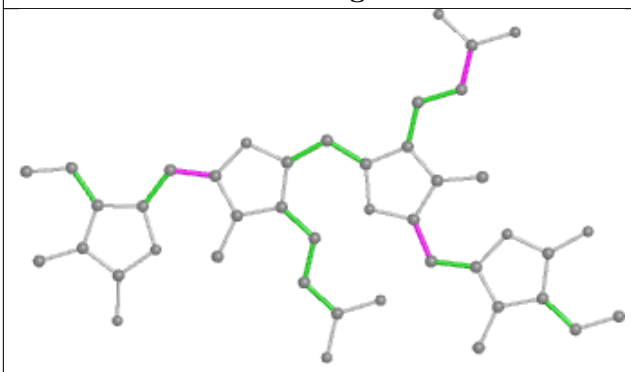


Bond angles



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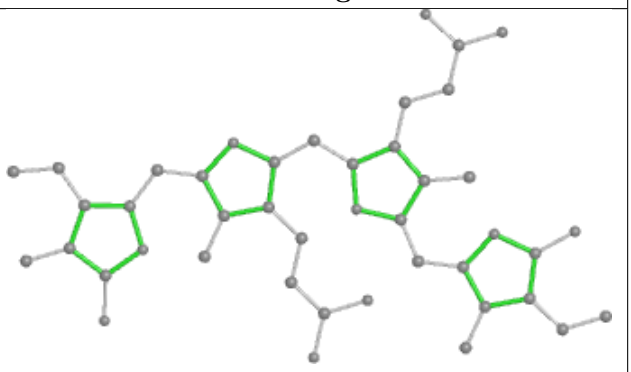
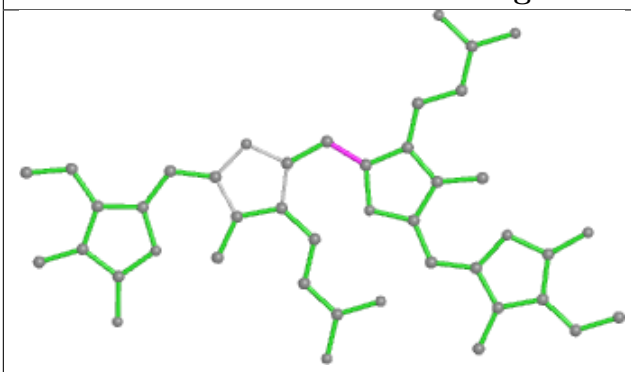


Rings

Ligand CYC P2 201



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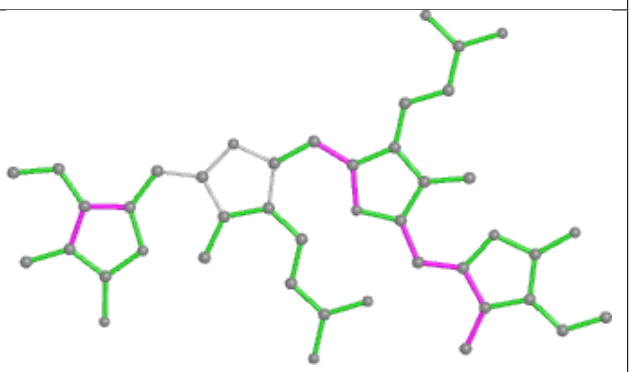

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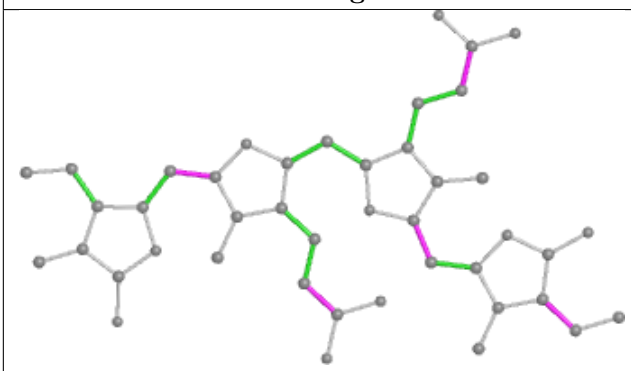

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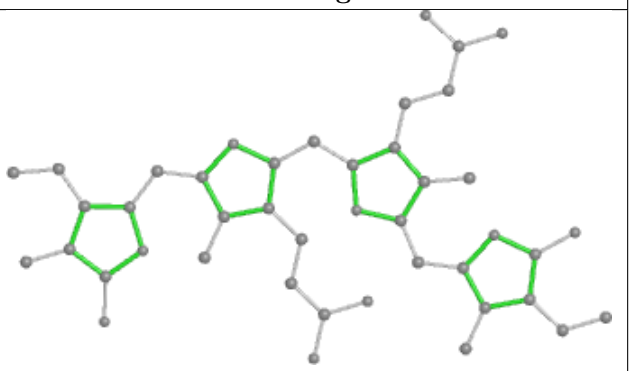
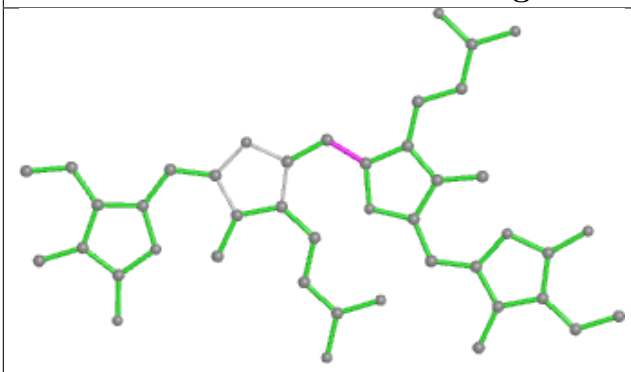


Rings

Ligand CYC O3 201



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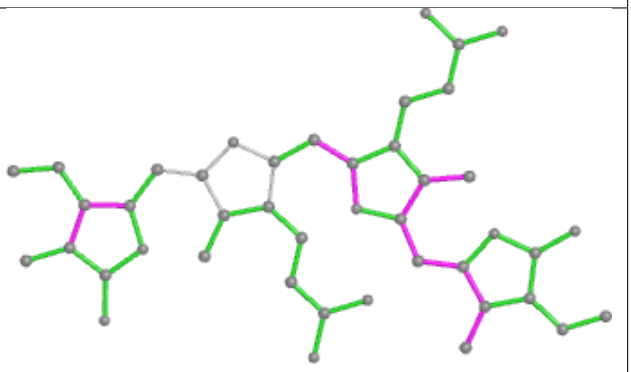

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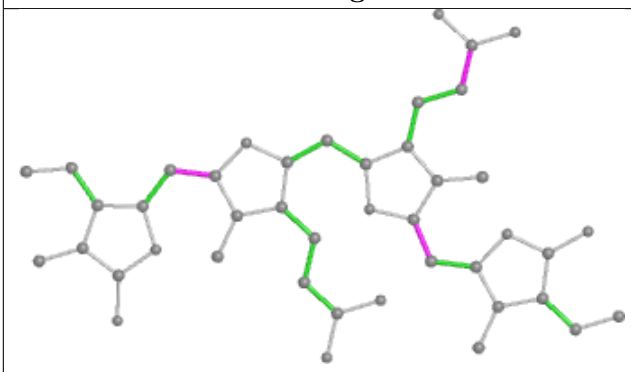

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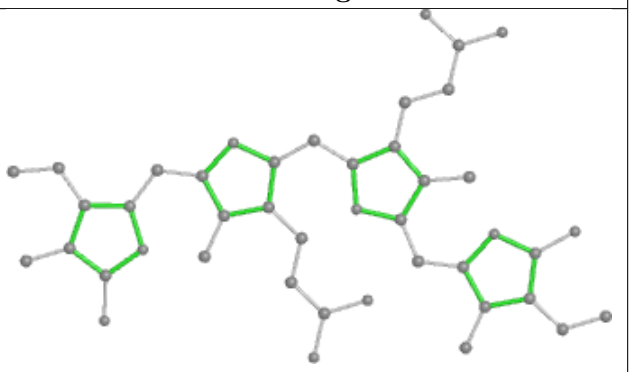
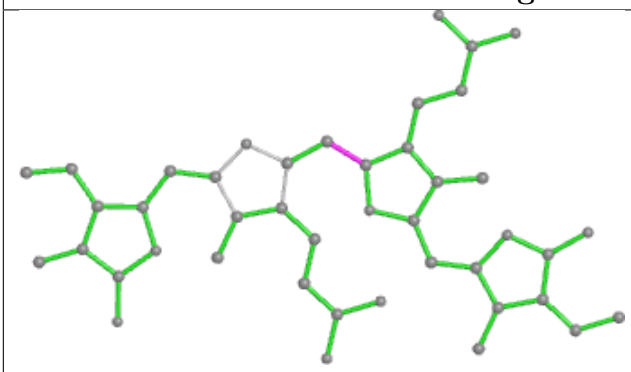


Rings

Ligand CYC a2 201



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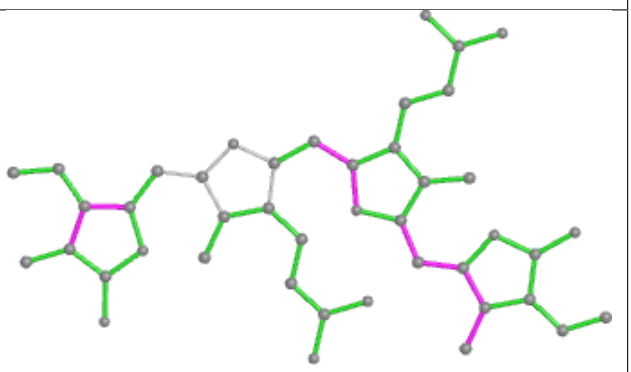
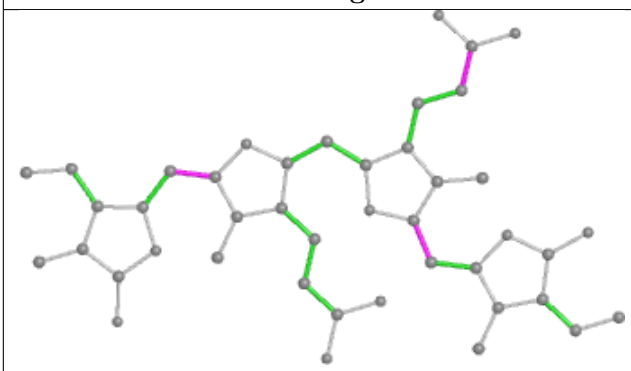


Bond angles



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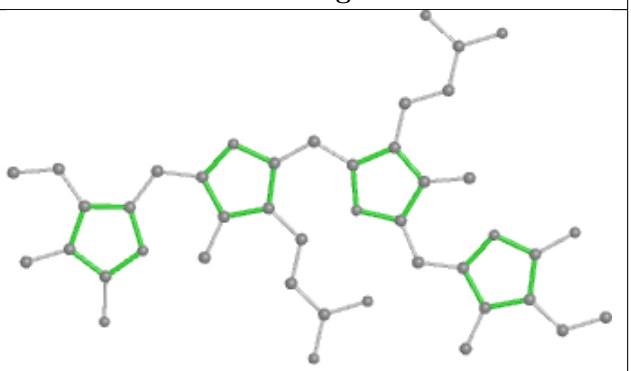
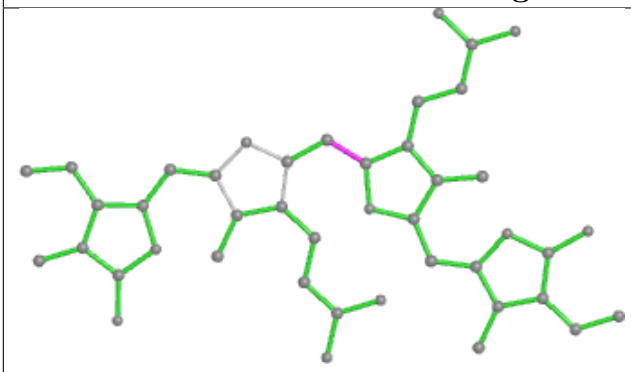


Rings

Ligand CYC N3 201



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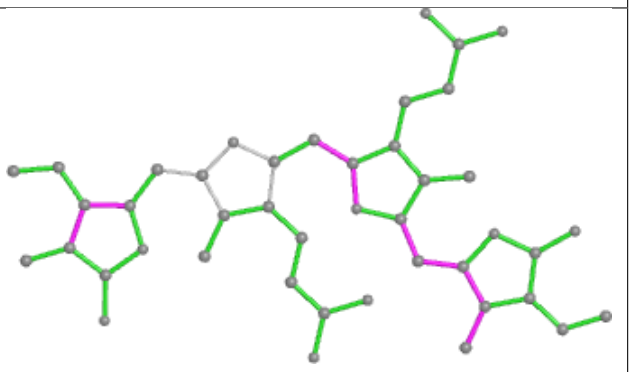
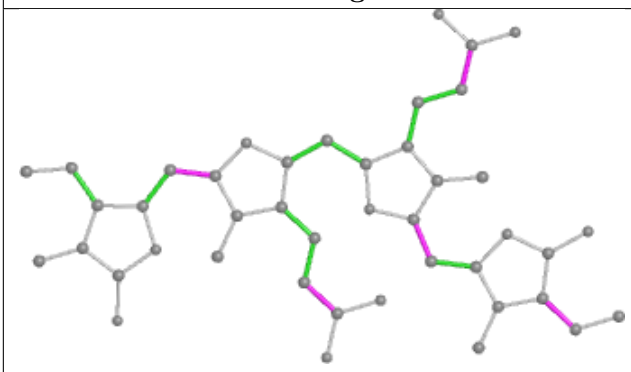
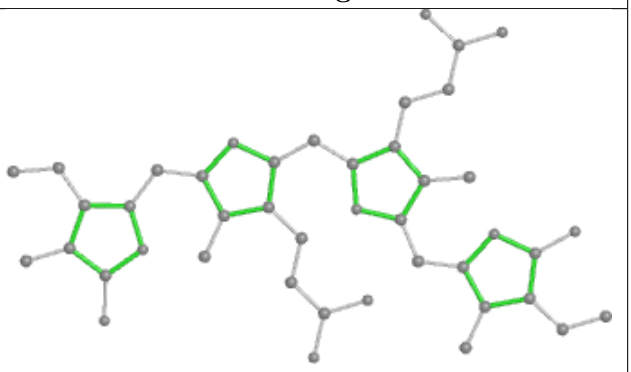


Bond angles

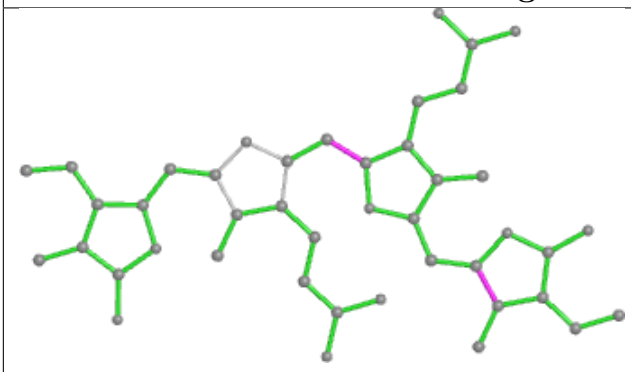


Torsions

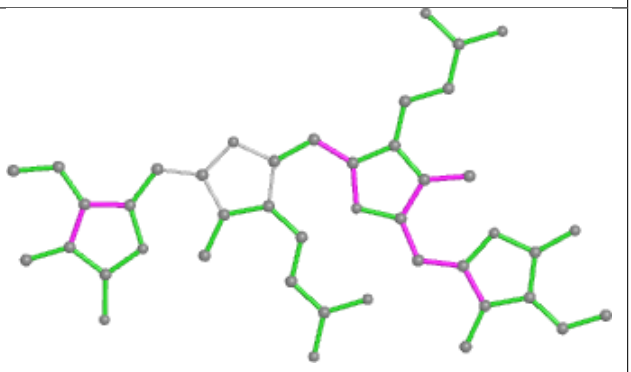


Rings

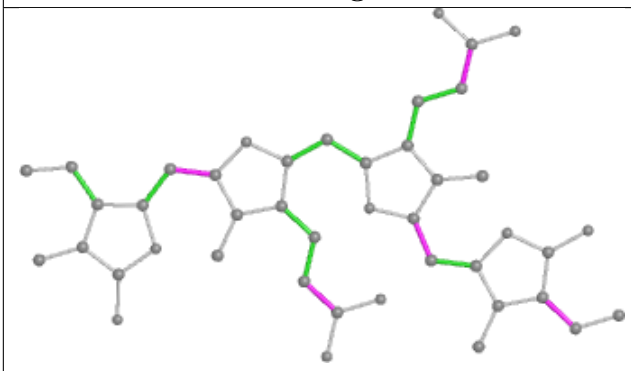
Ligand CYC z3 101



Bond lengths



Bond angles



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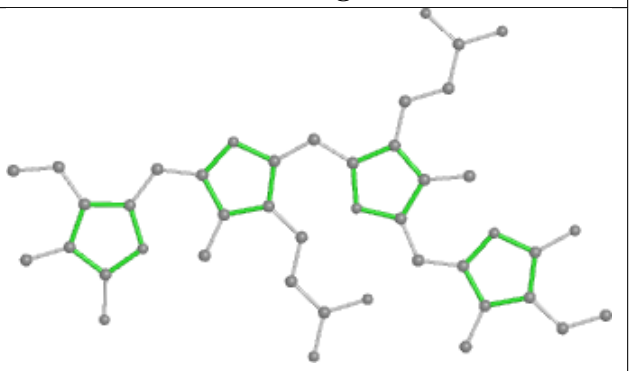
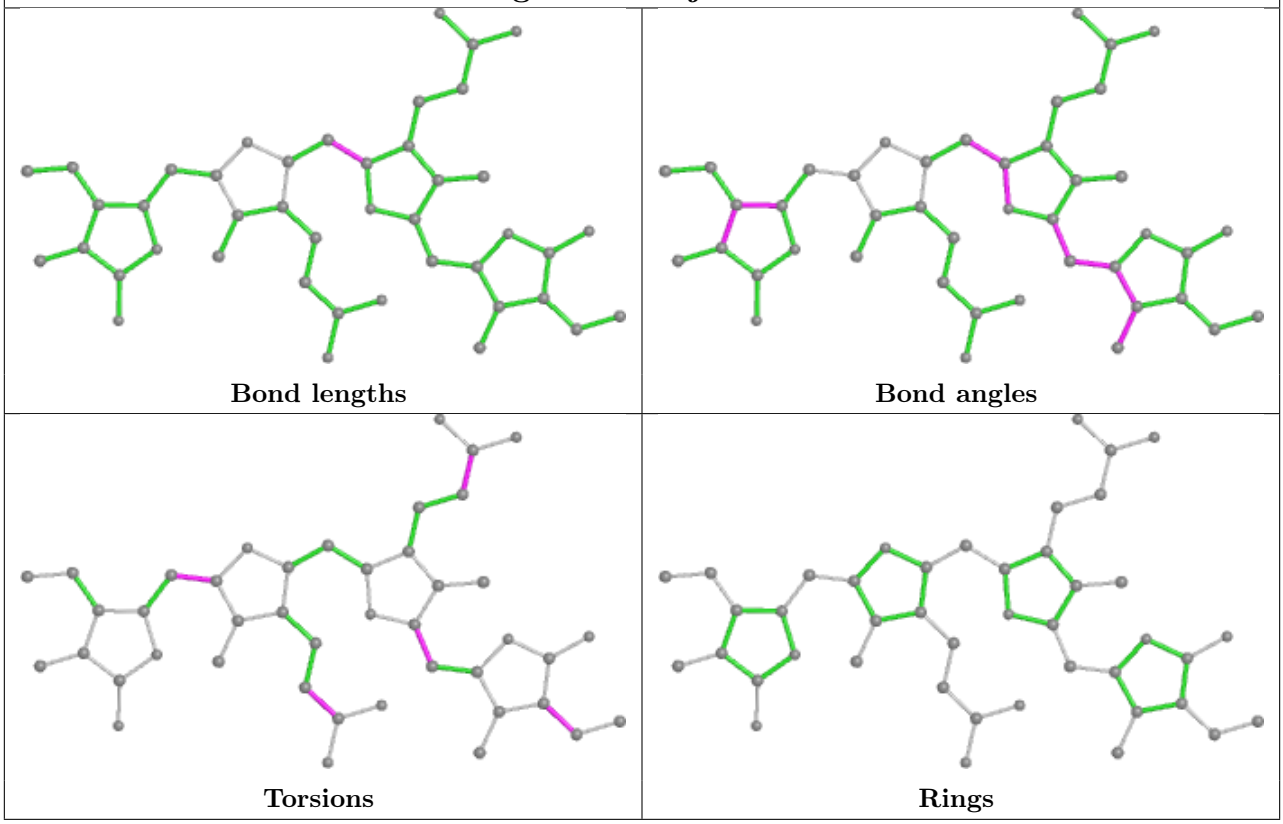
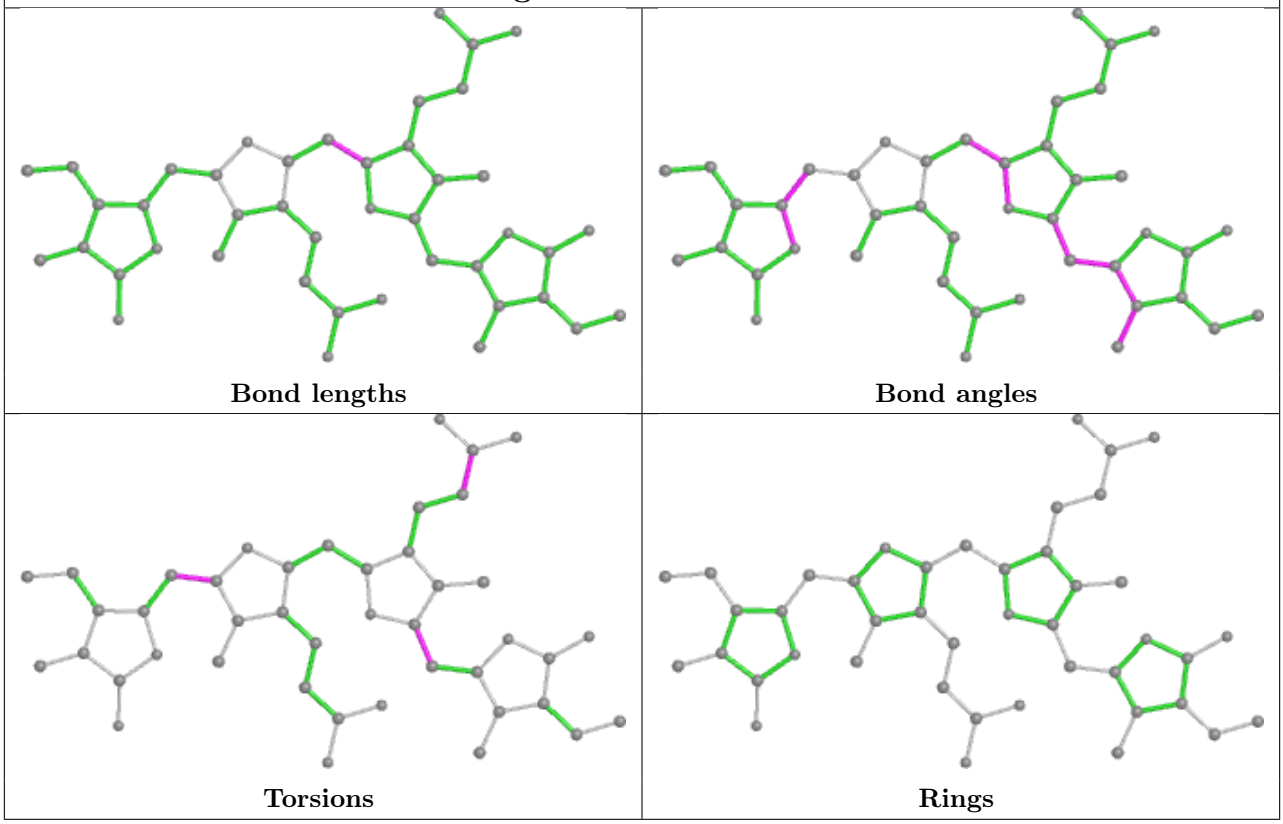


Rings

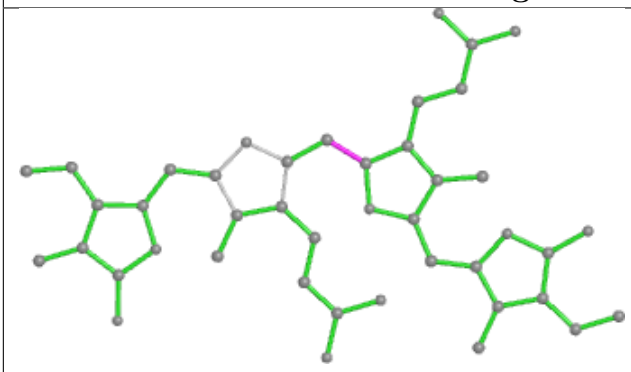
Ligand CYC j3 1201



Ligand CYC A3 201



Ligand CYC K1 201



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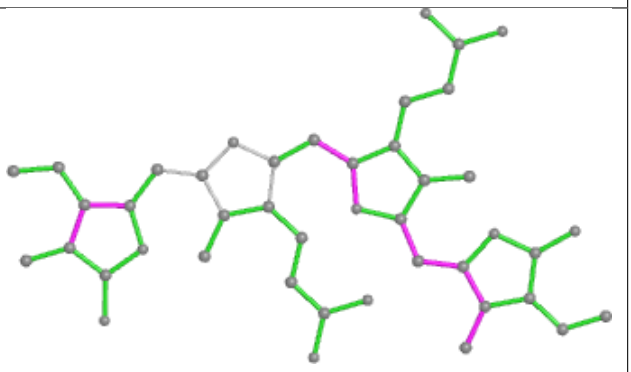

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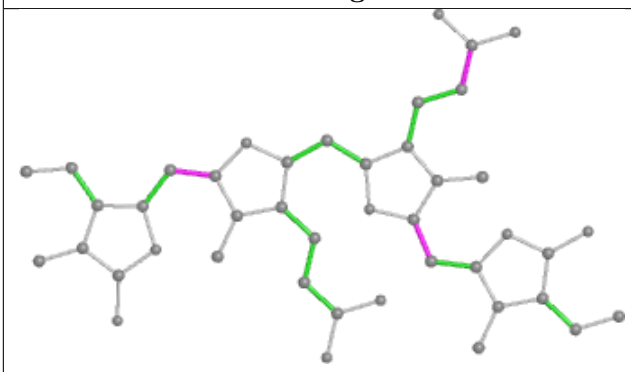

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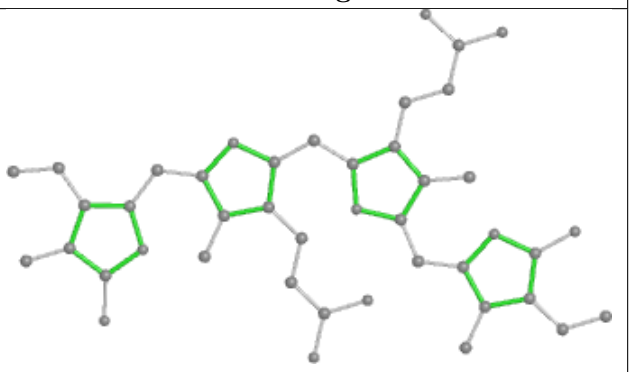
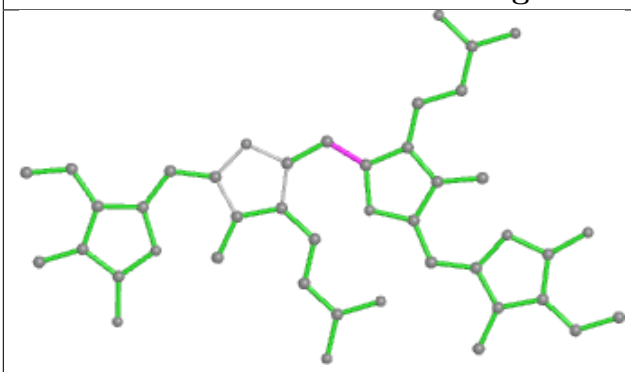


Rings

Ligand CYC H2 201



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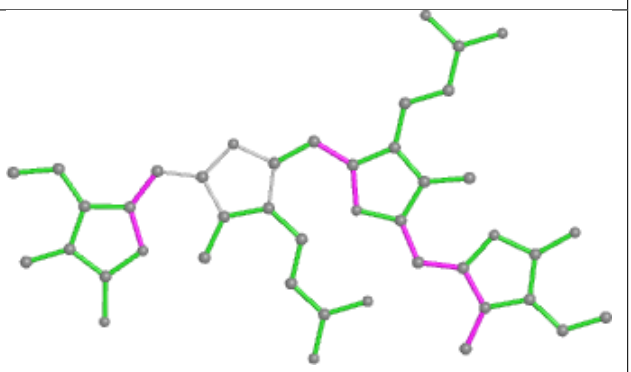

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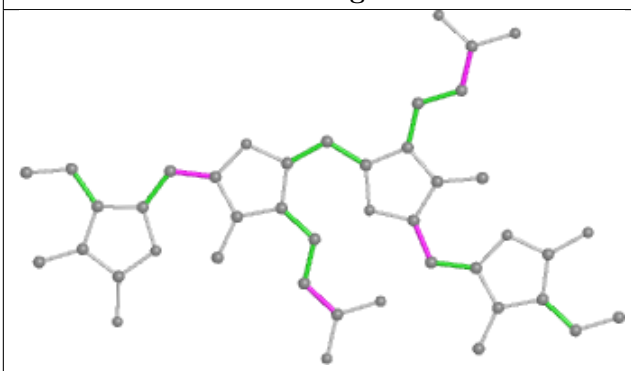

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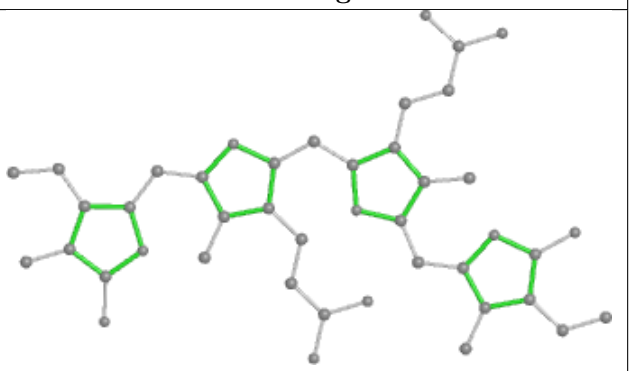
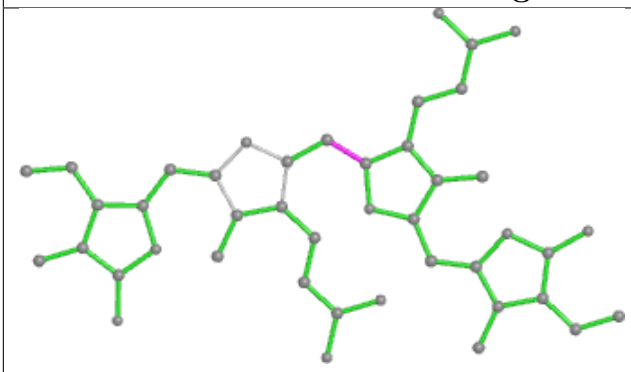


Rings

Ligand CYC O2 201



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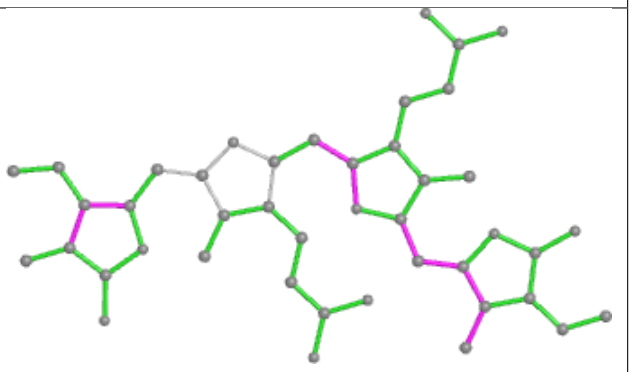

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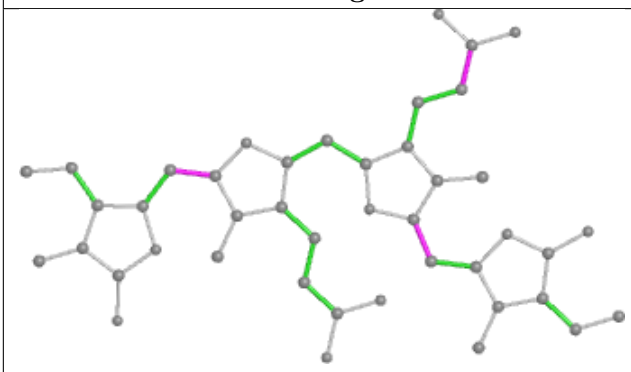

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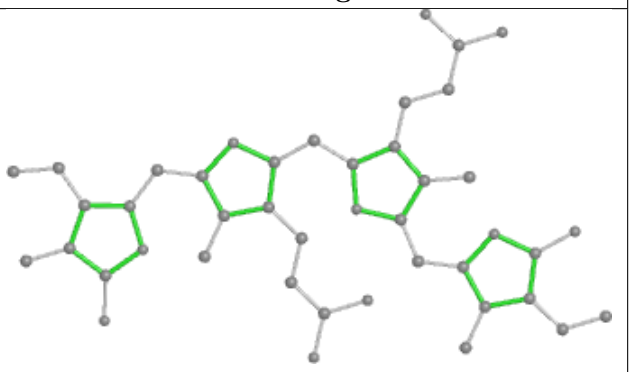
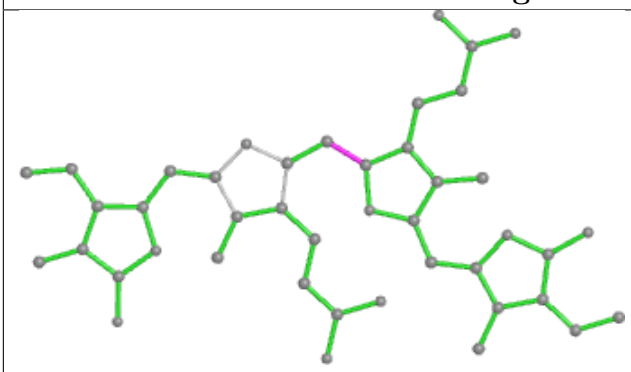


Rings

Ligand CYC Q3 201



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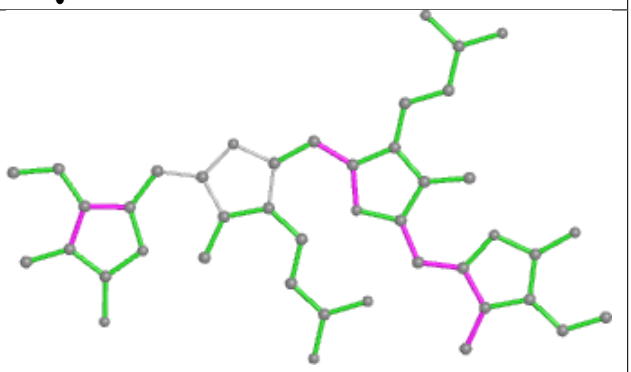

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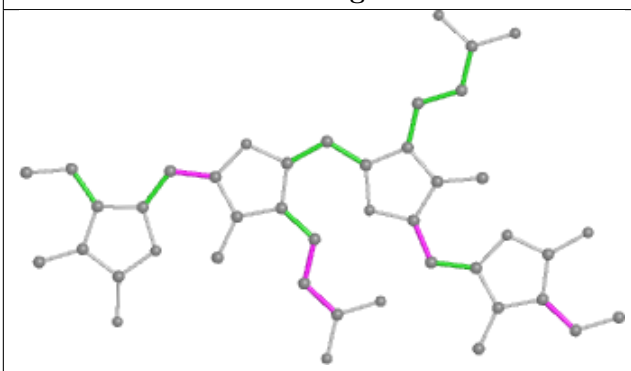

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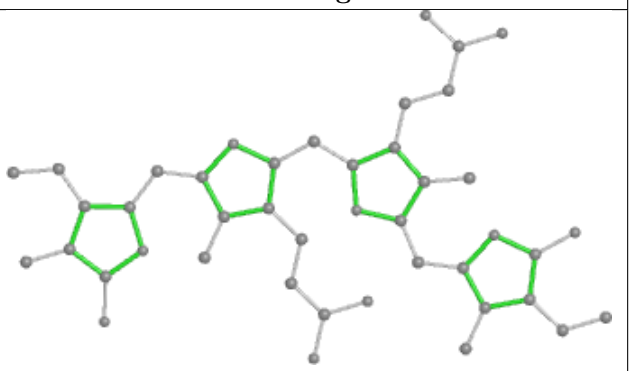
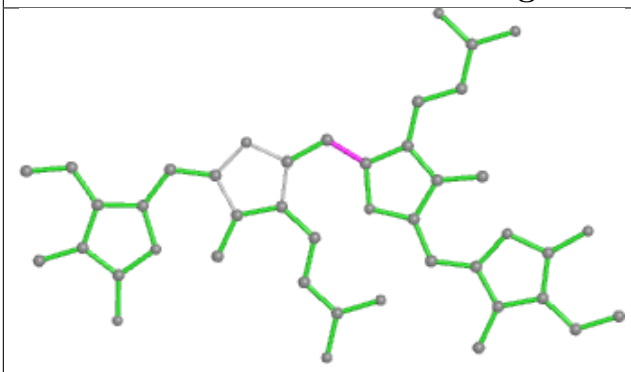


Rings

Ligand CYC e2 201



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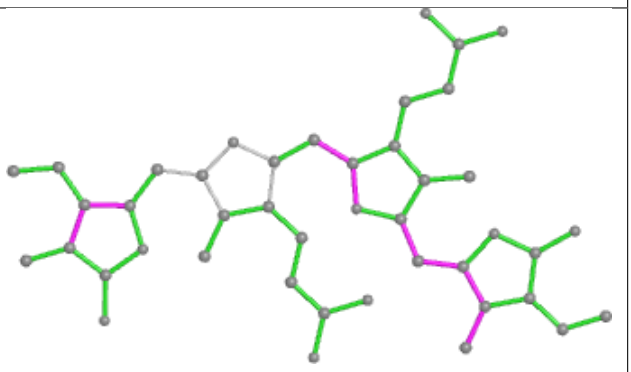

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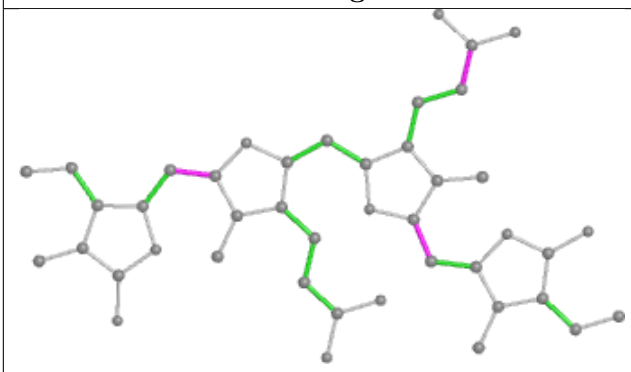

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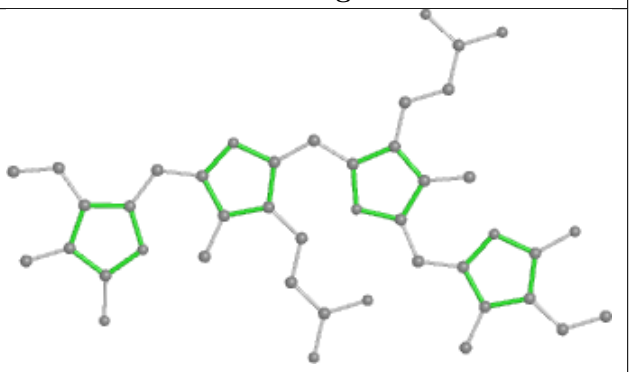
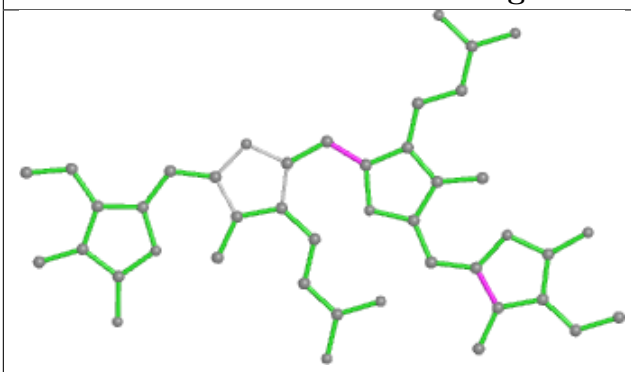


Rings

Ligand CYC k3 1203



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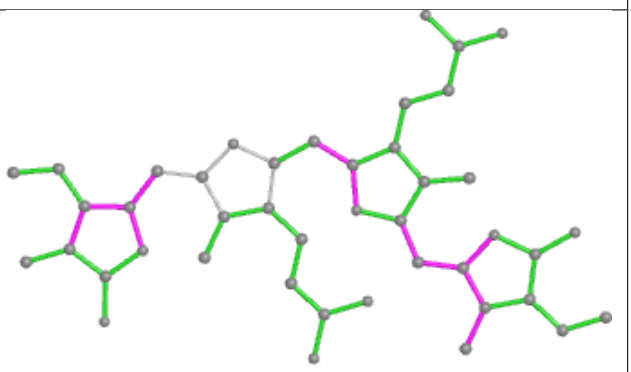

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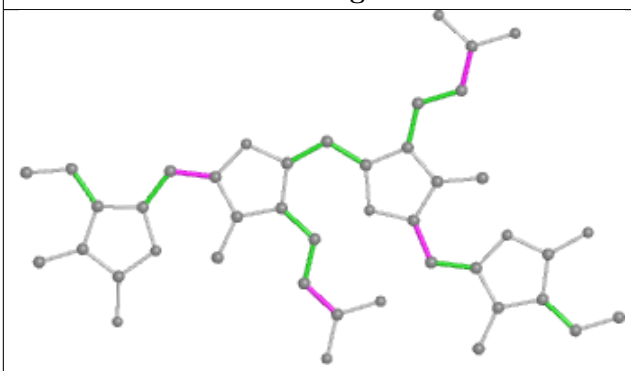

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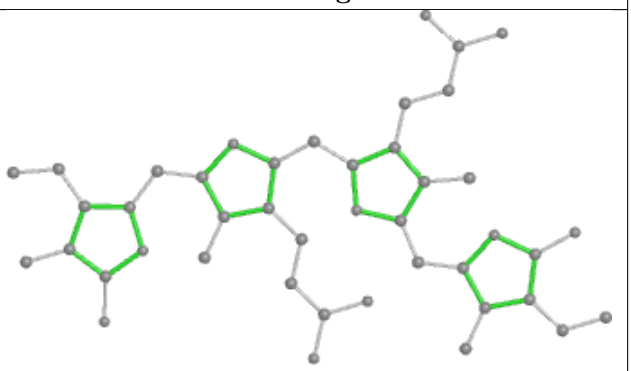
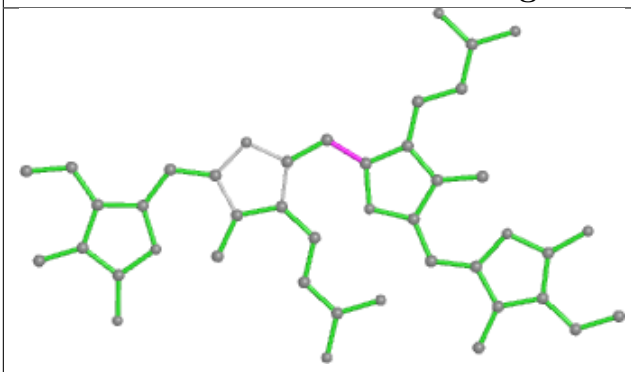


Rings

Ligand CYC I3 201



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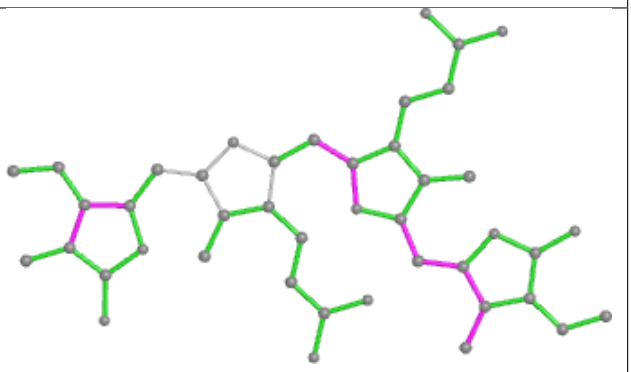

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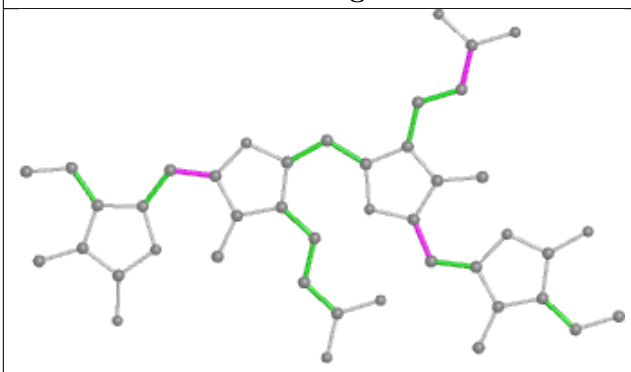

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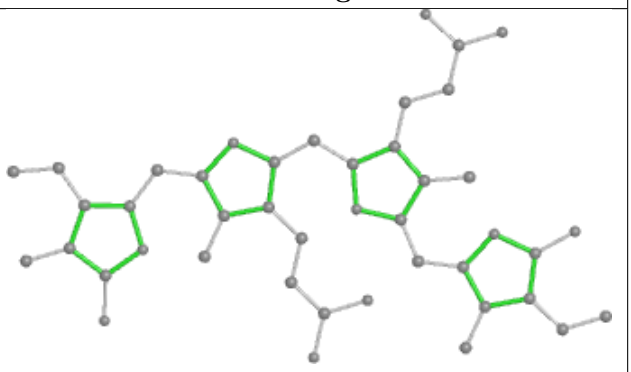
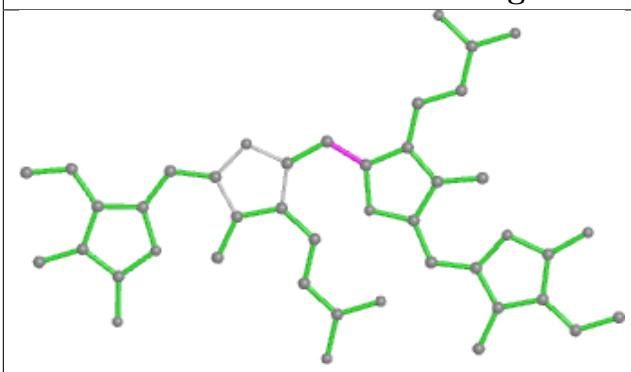


Rings

Ligand CYC W3 201



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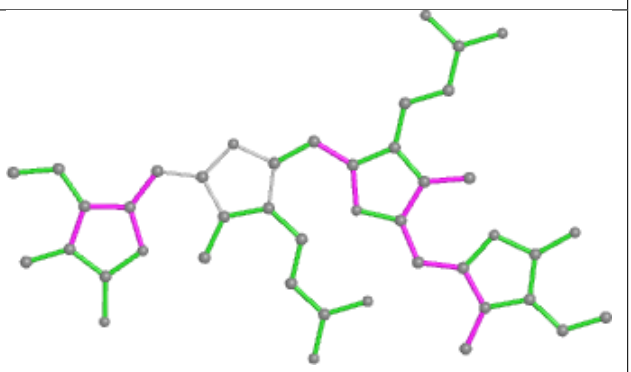

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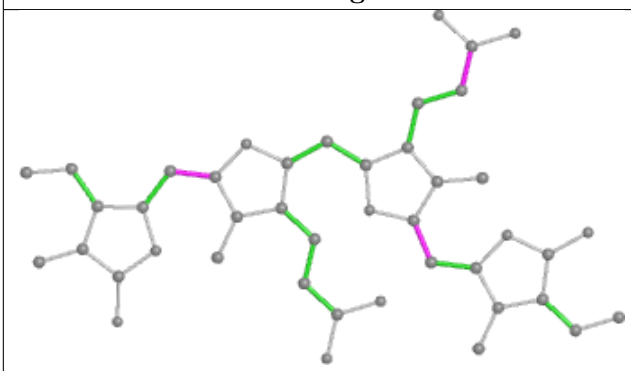

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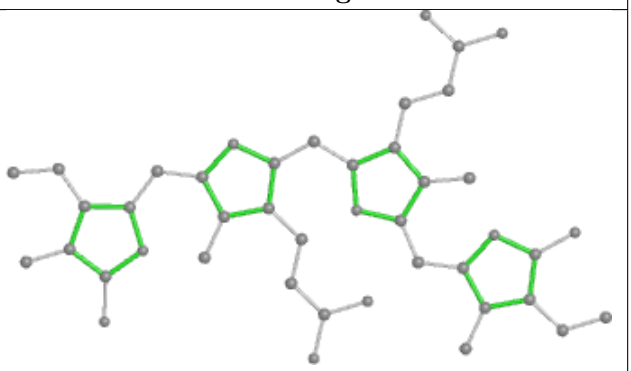
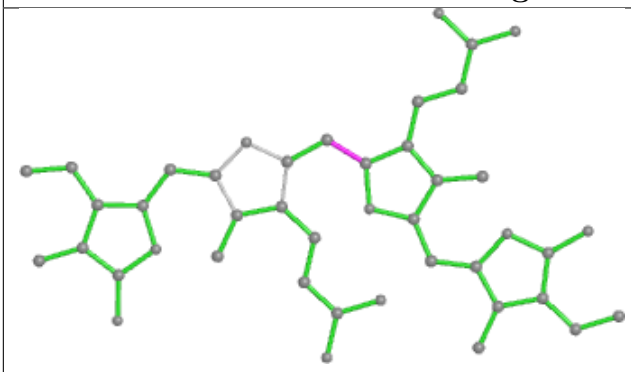


Rings

Ligand CYC j3 1205



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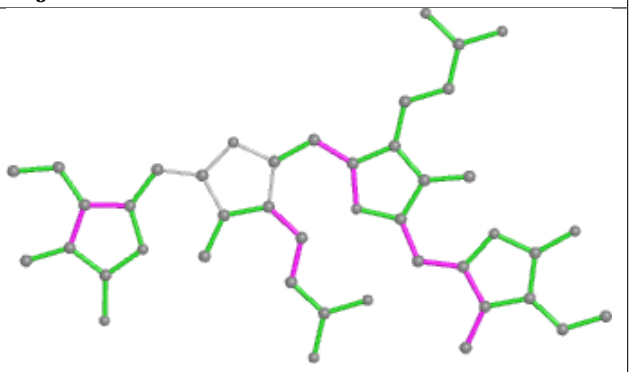
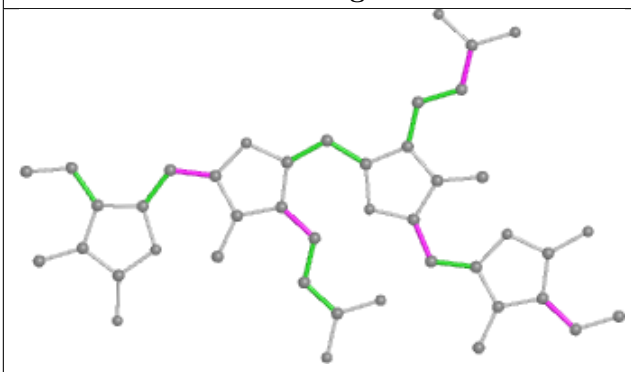


Bond angles



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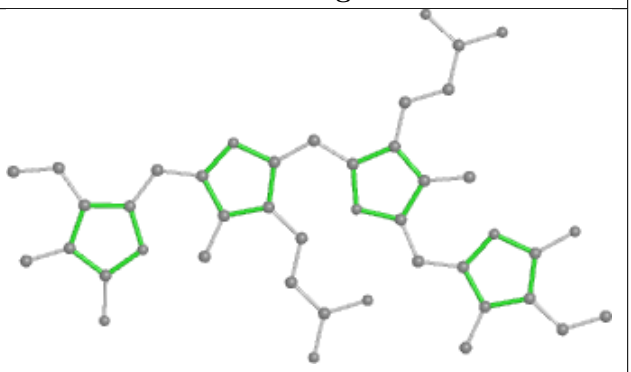
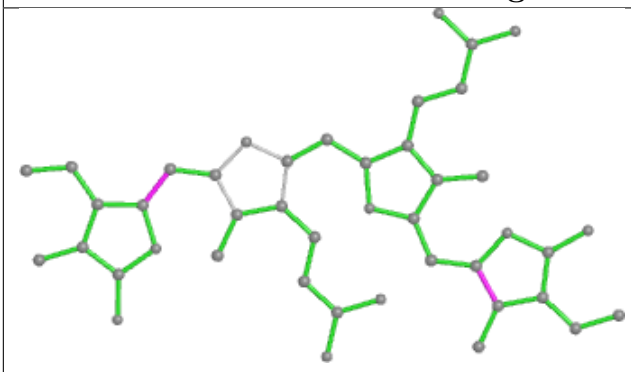


Rings

Ligand CYC k3 1201



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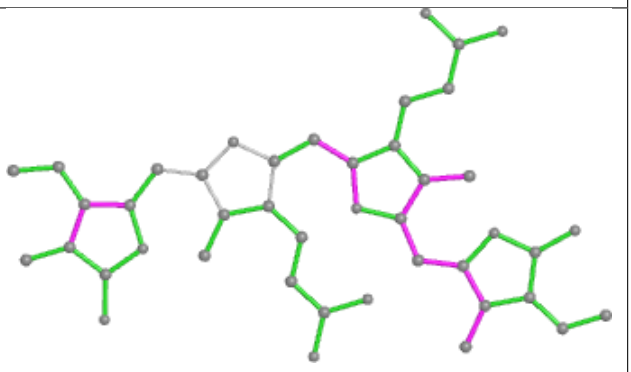

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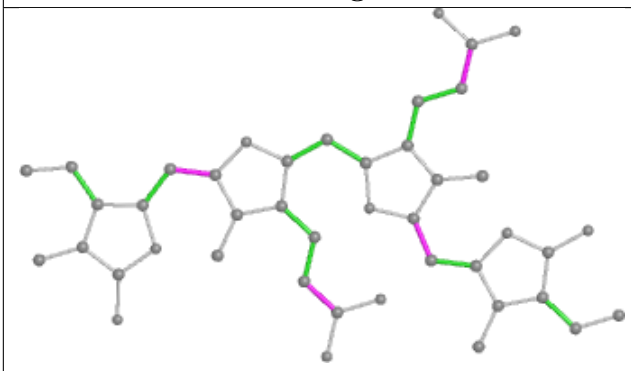

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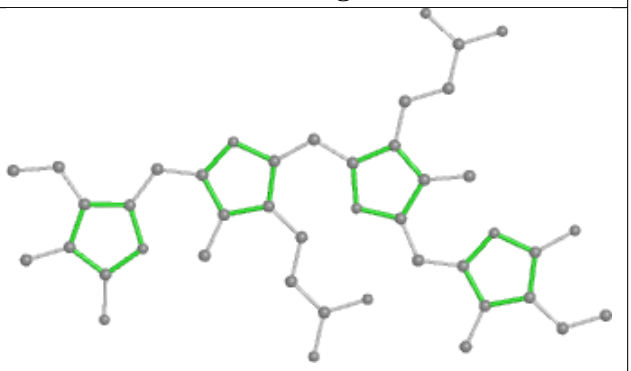
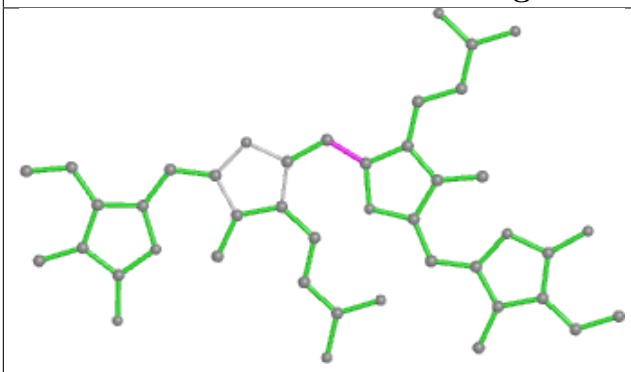


Rings

Ligand CYC C3 201



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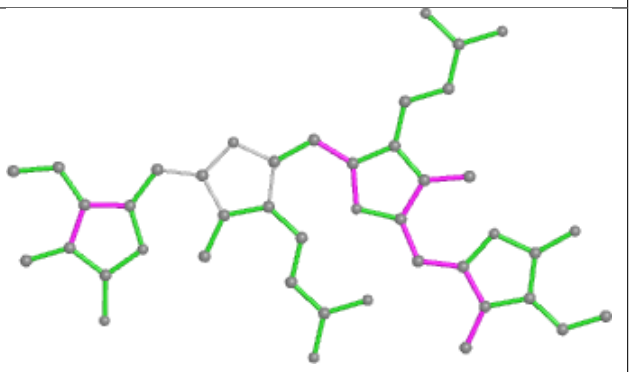
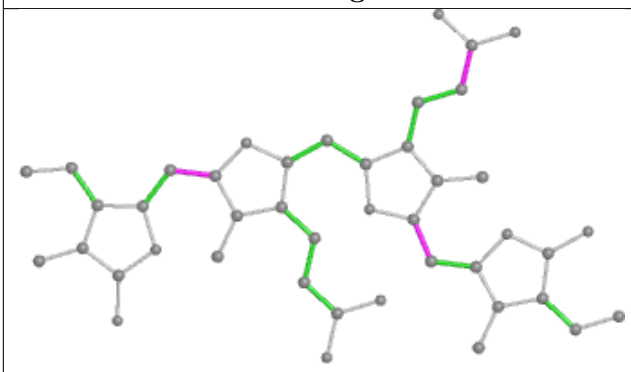
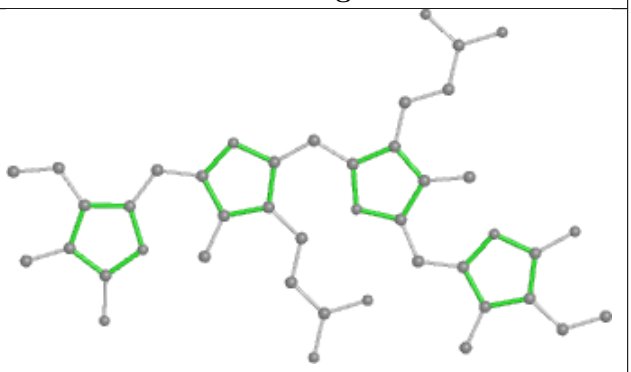


Bond angles

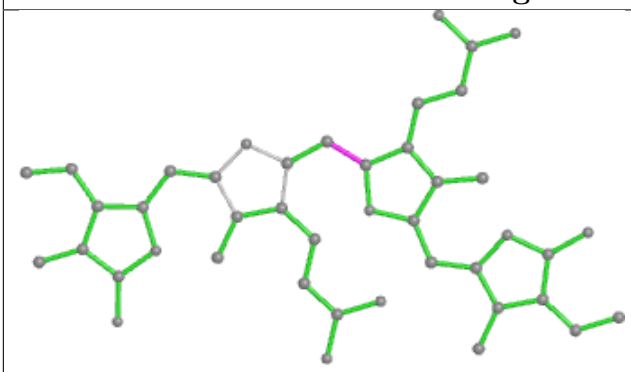


Torsions



Rings

Ligand CYC A1 201



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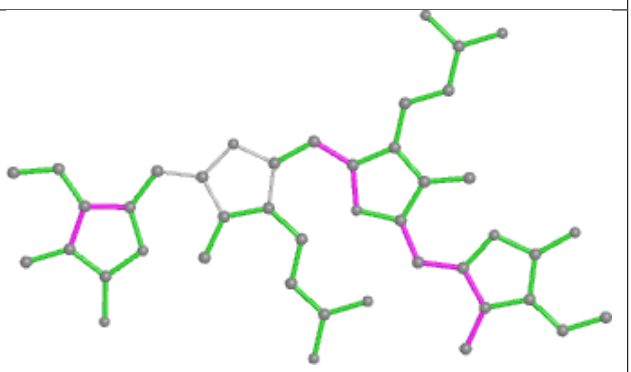
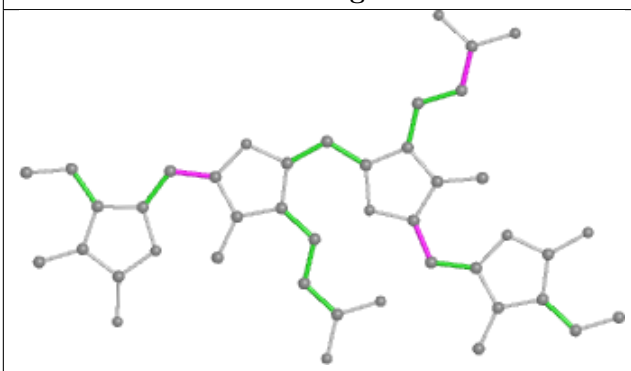


Bond angles



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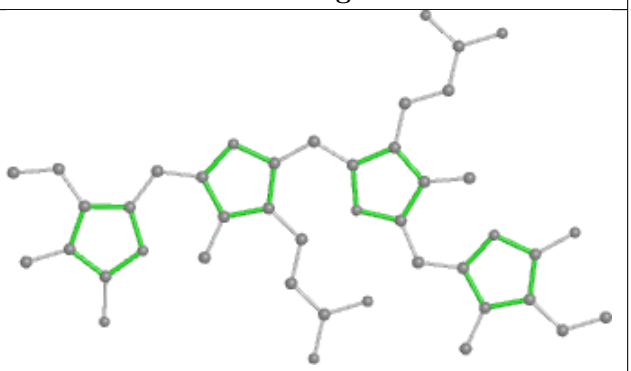
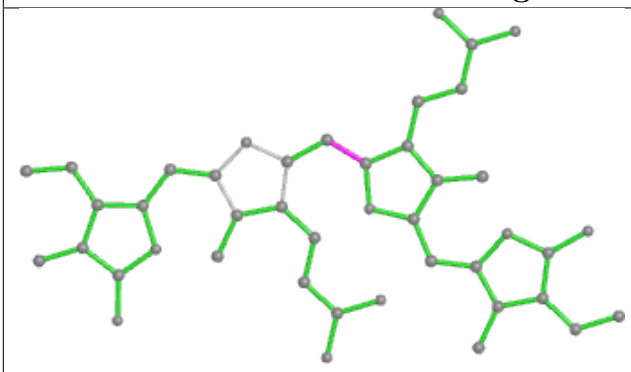
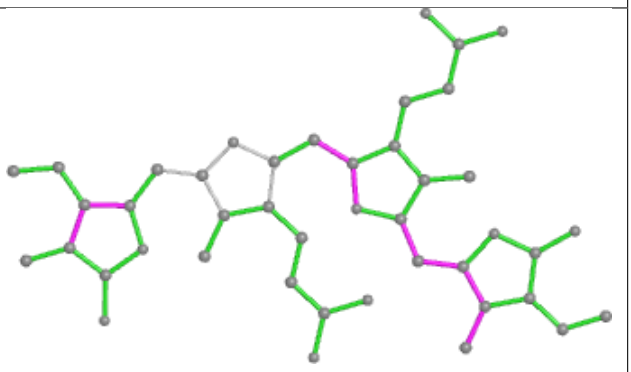


Rings

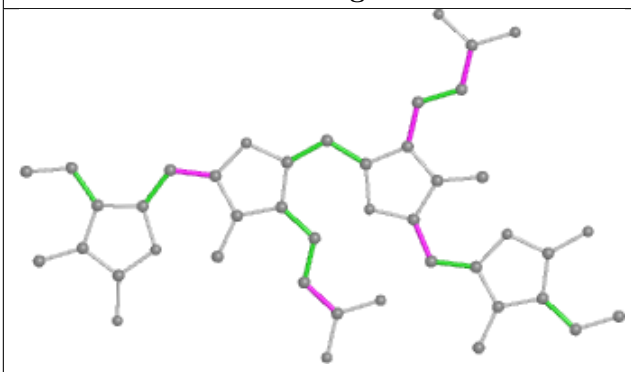
Ligand CYC X3 201



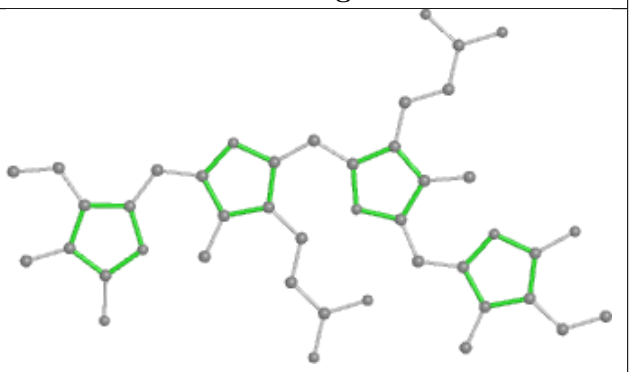
Bond lengths



Bond angles

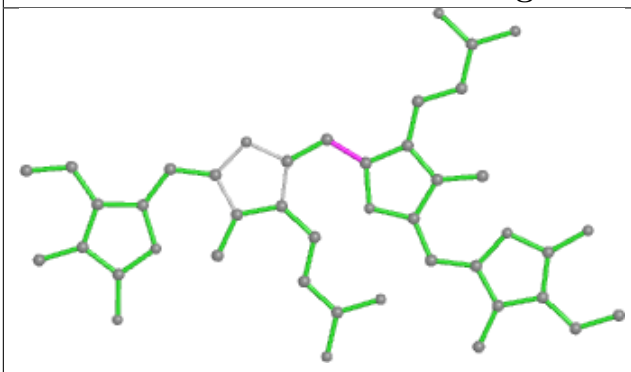


Torsions



Rings

Ligand CYC h3 201



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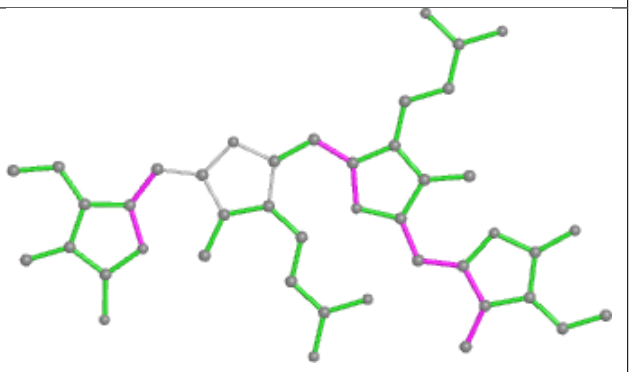

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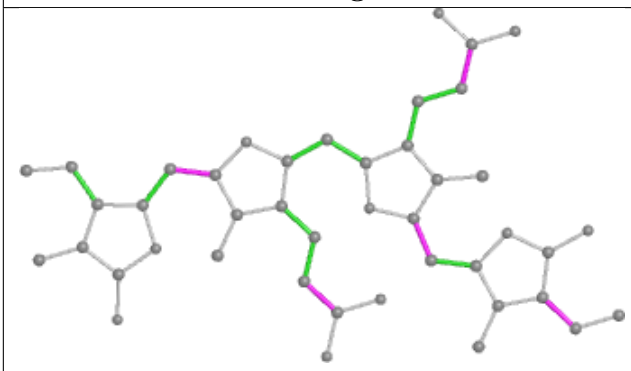

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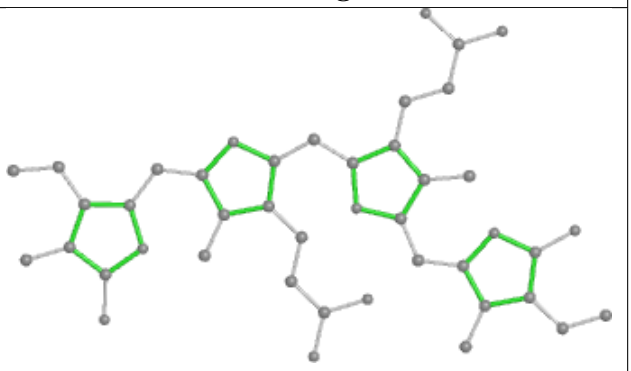
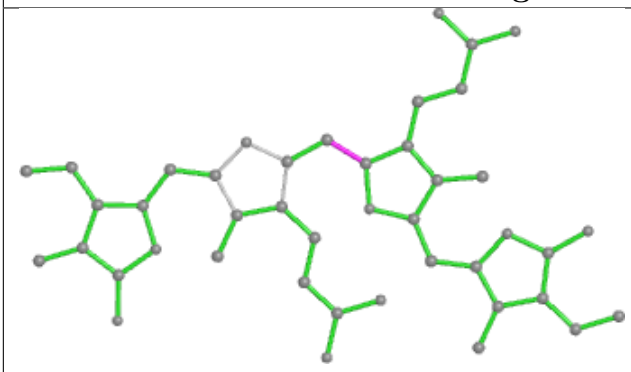


Rings

Ligand CYC U3 201



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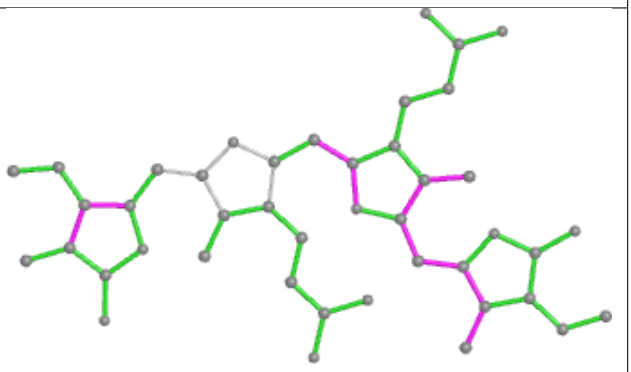

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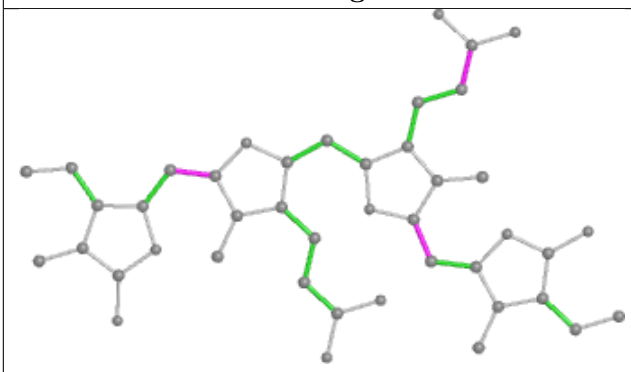

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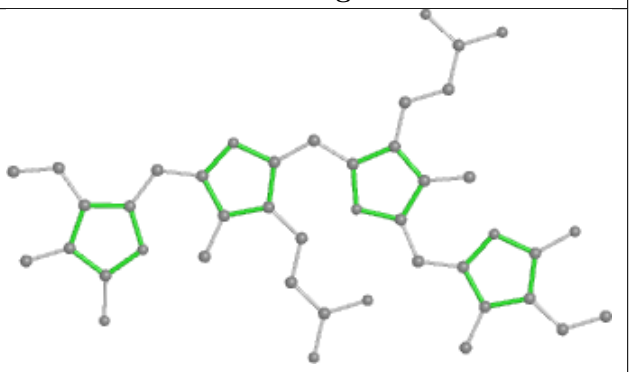
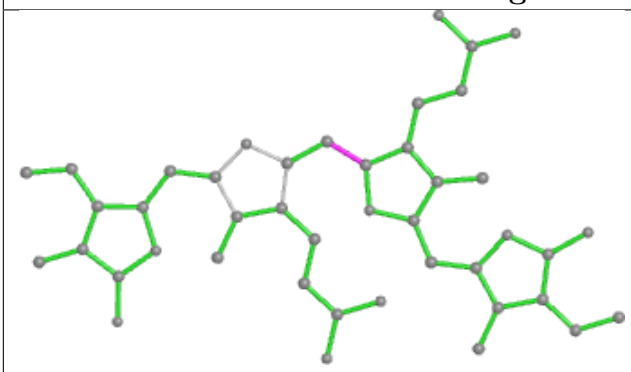


Rings

Ligand CYC M1 101



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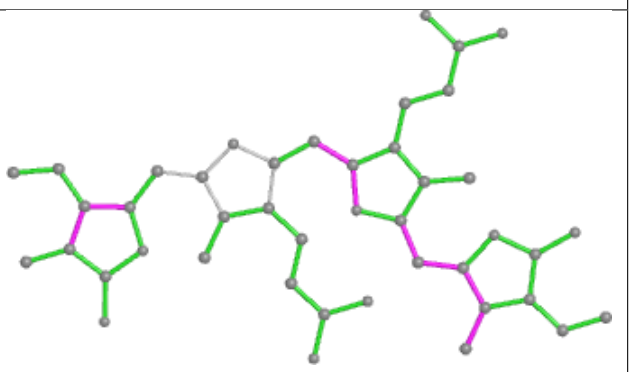

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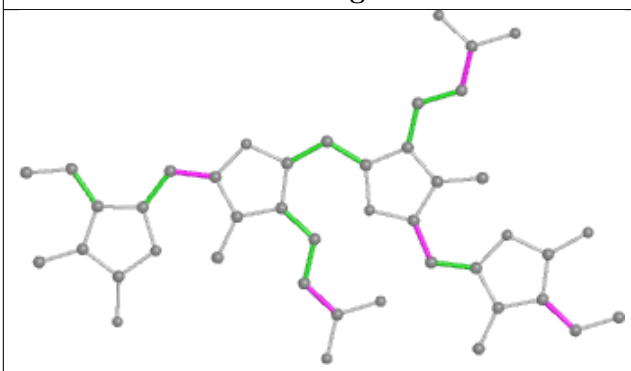

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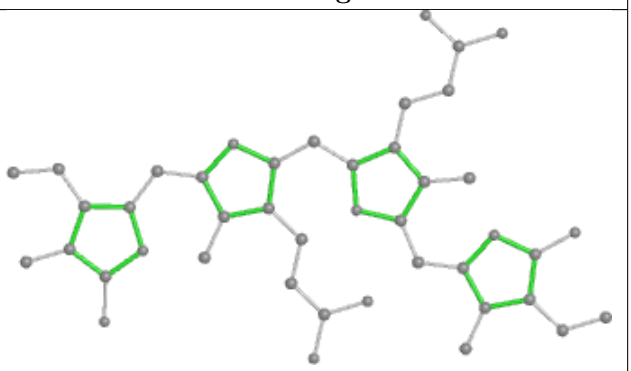
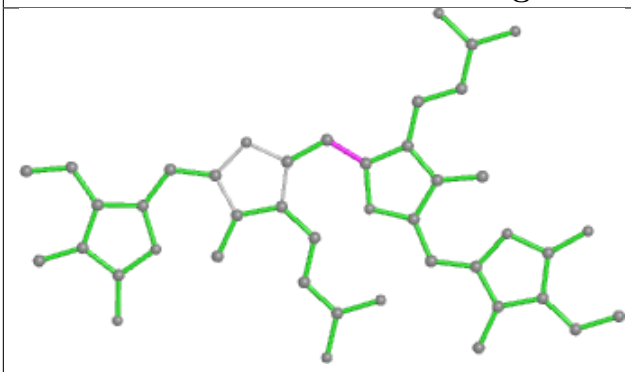


Rings

Ligand CYC X2 201



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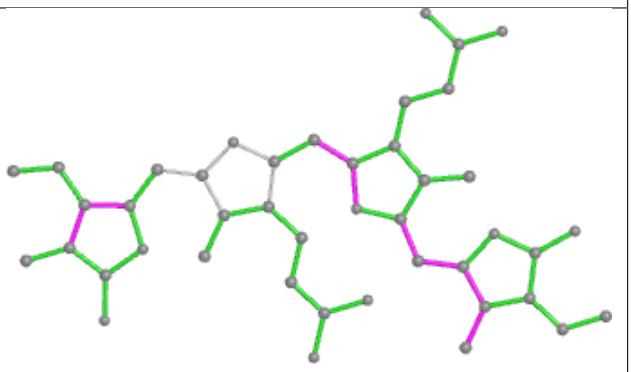

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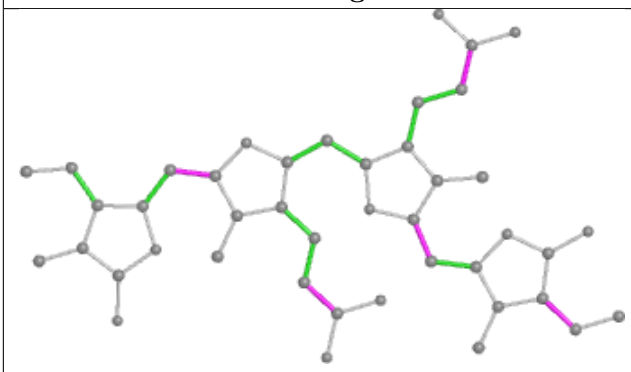

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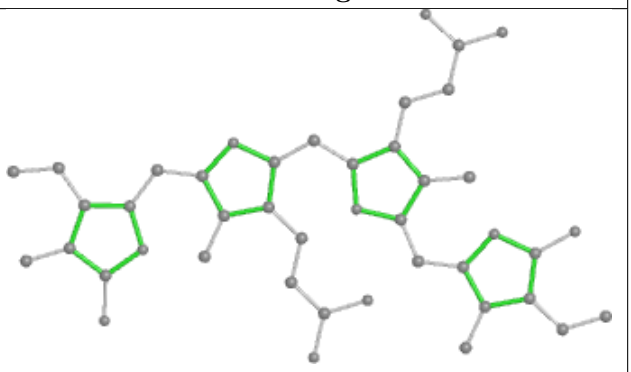
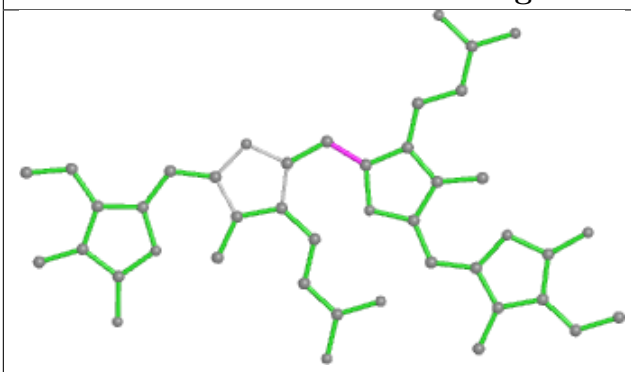


Rings

Ligand CYC F1 201



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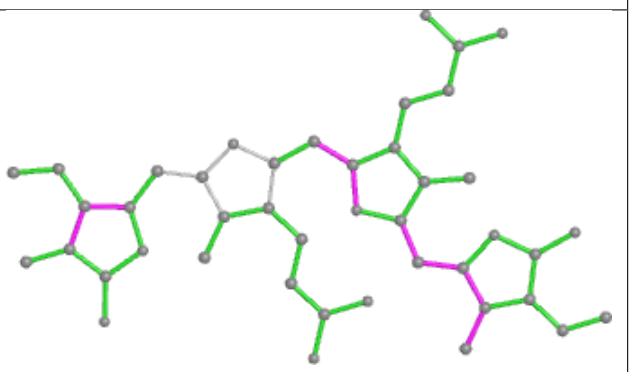

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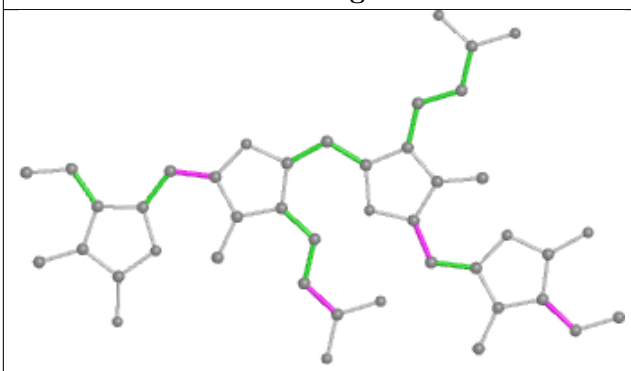

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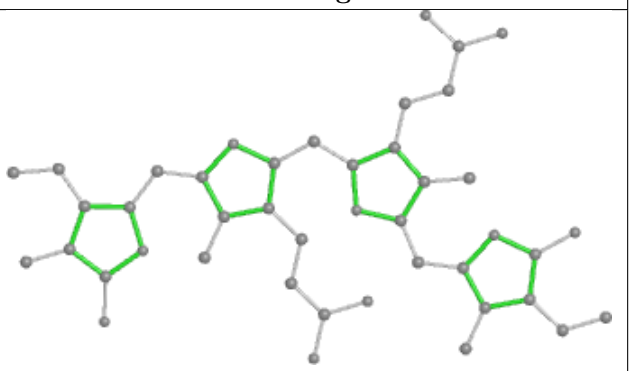
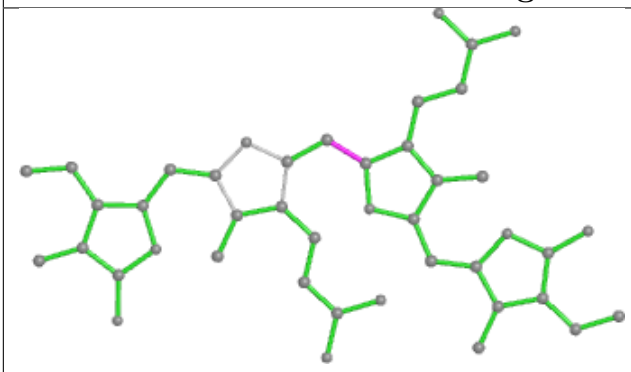


Rings

Ligand CYC g2 201



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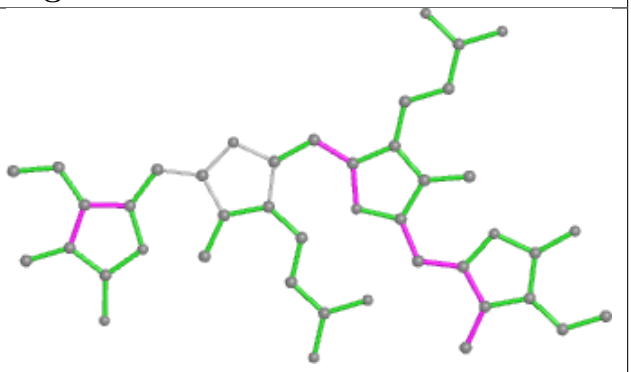

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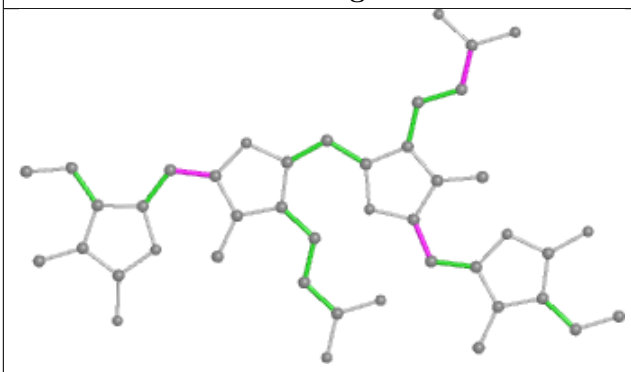

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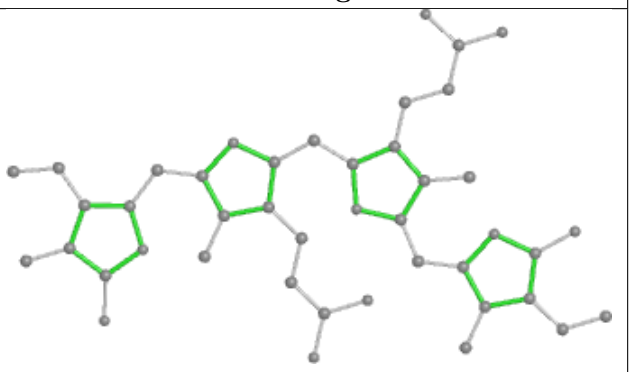

Rings

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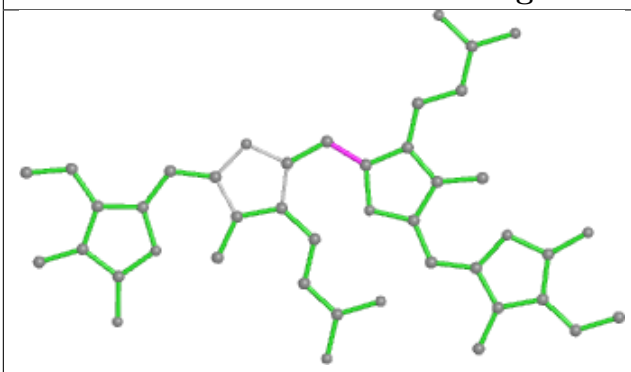

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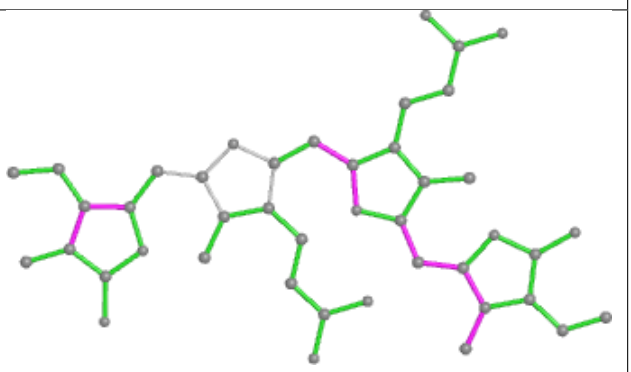

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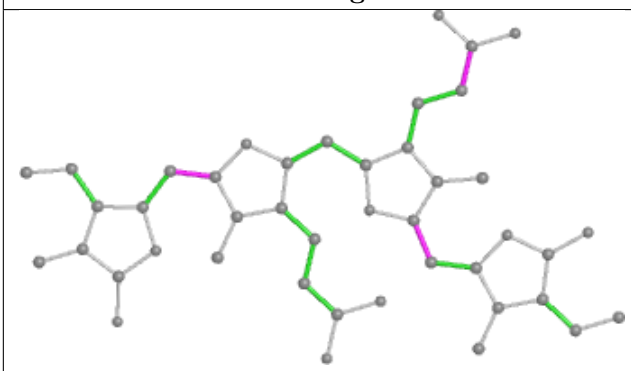

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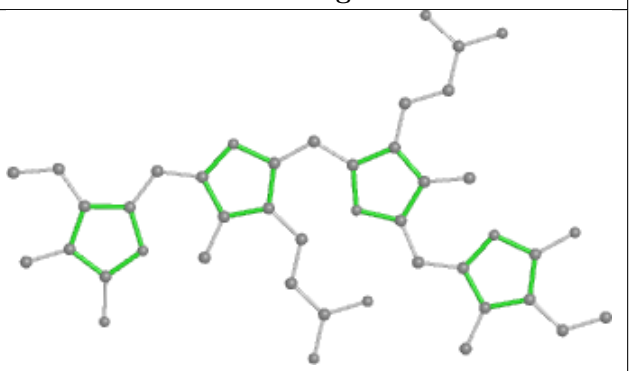
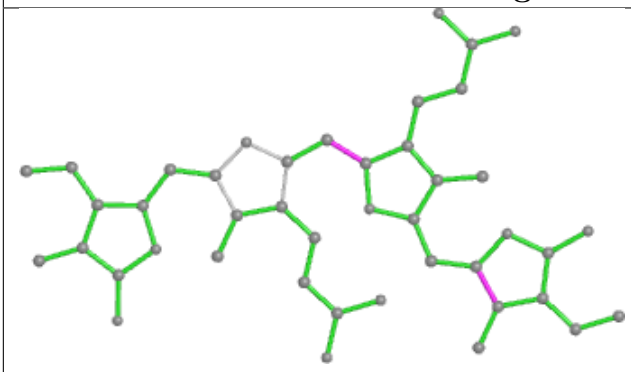


Rings

Ligand CYC T3 201



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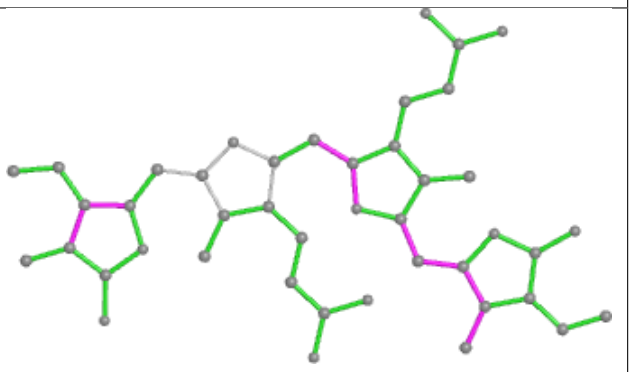

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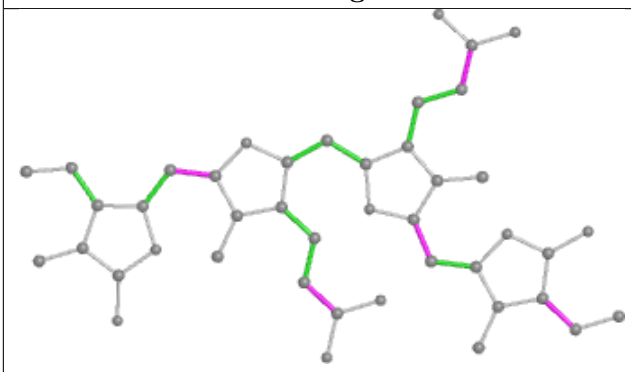

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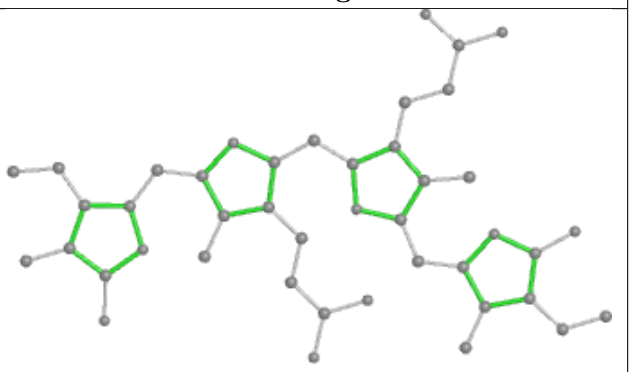

Rings

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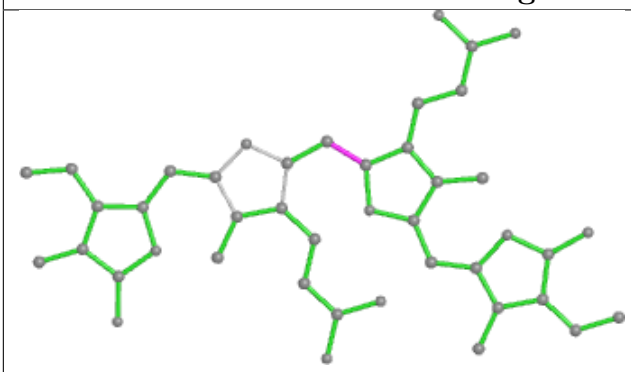

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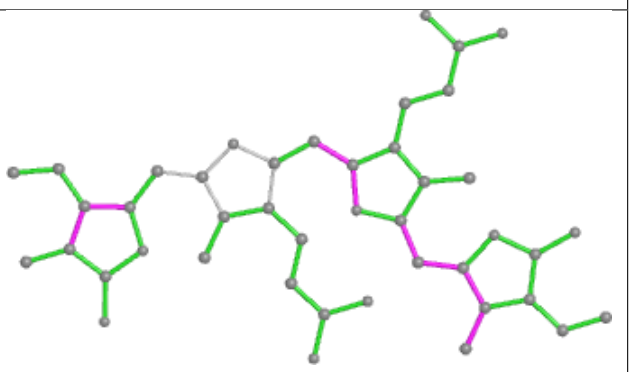

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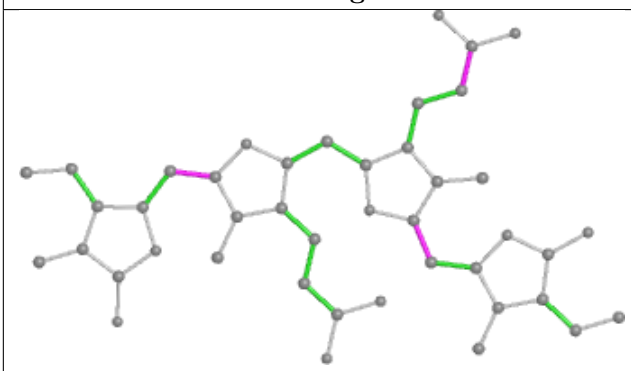

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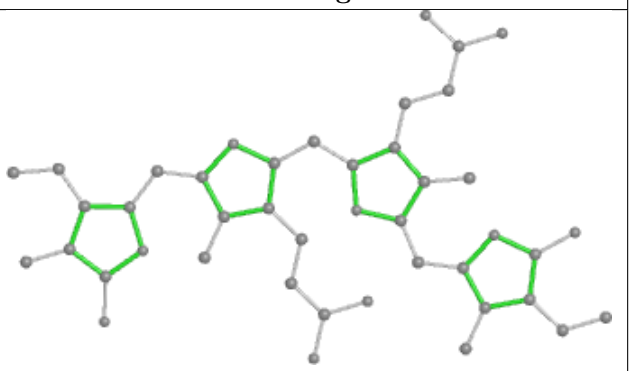

Rings

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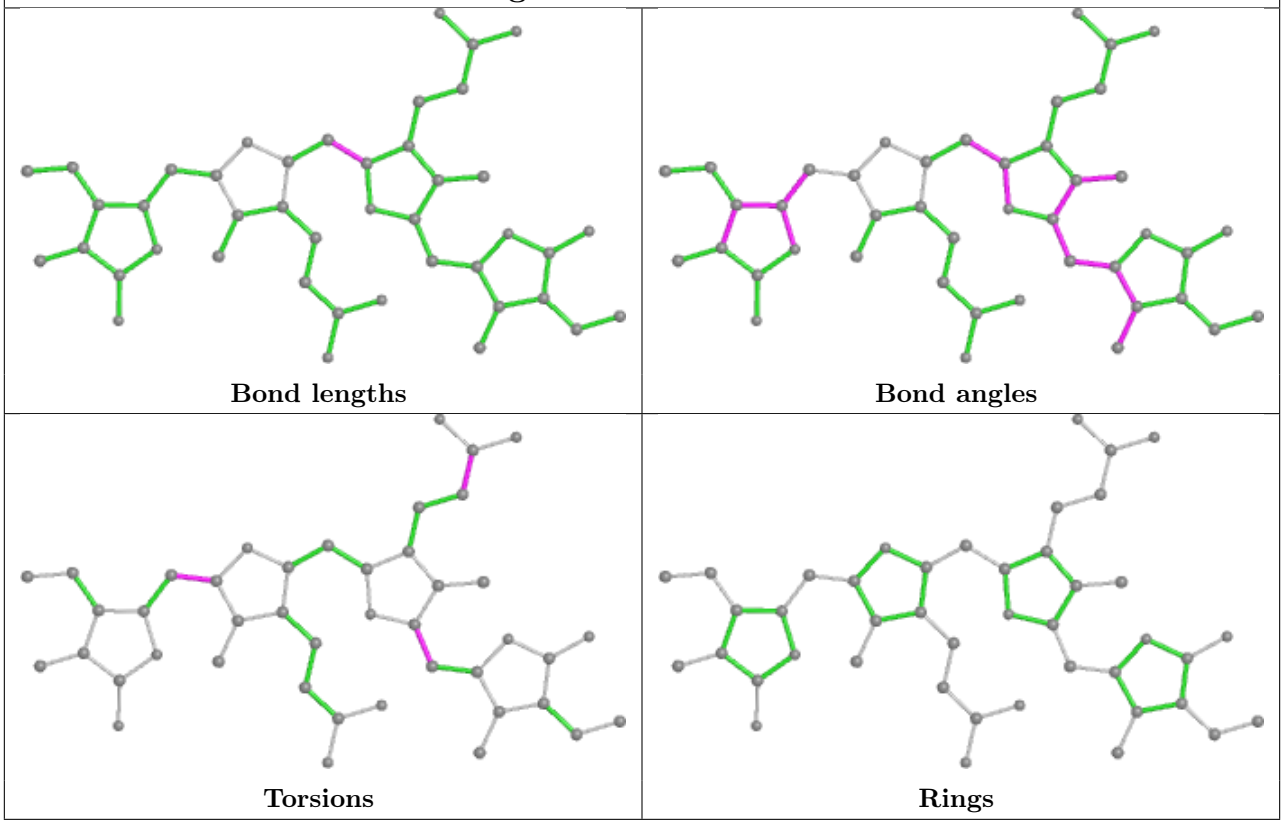

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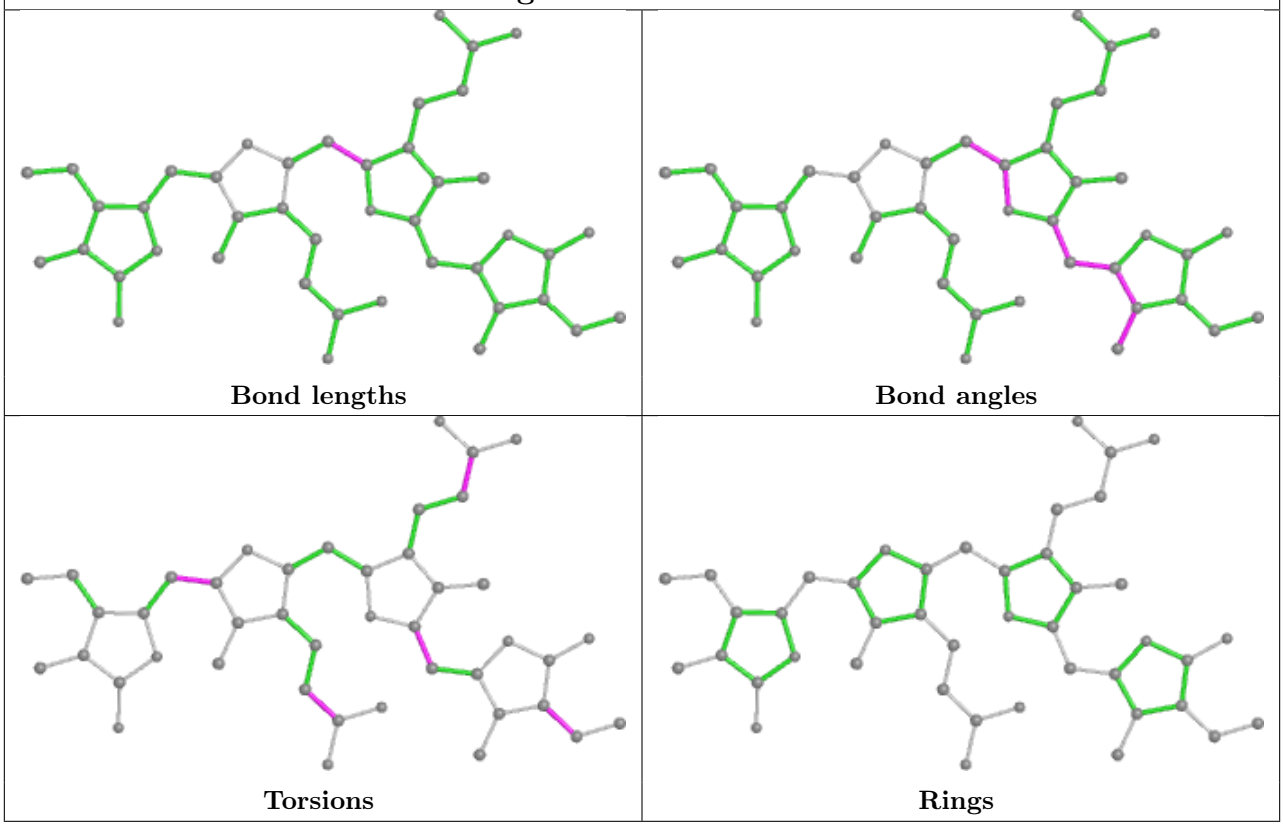

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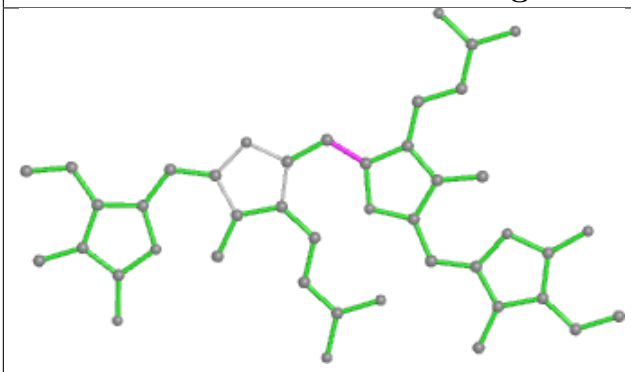

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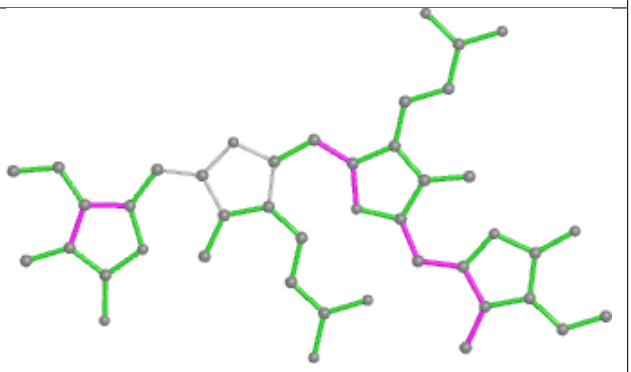

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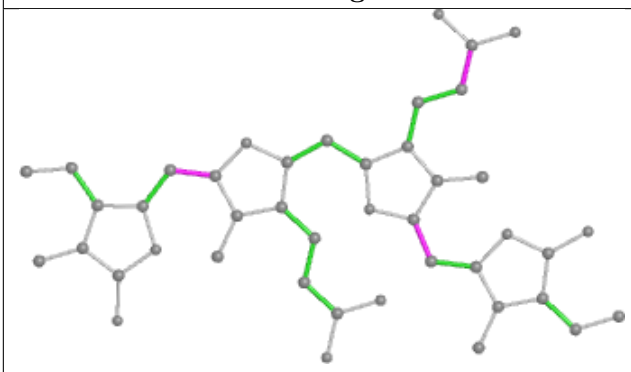

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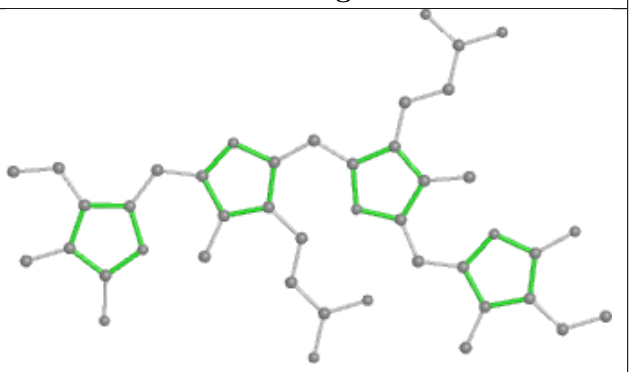
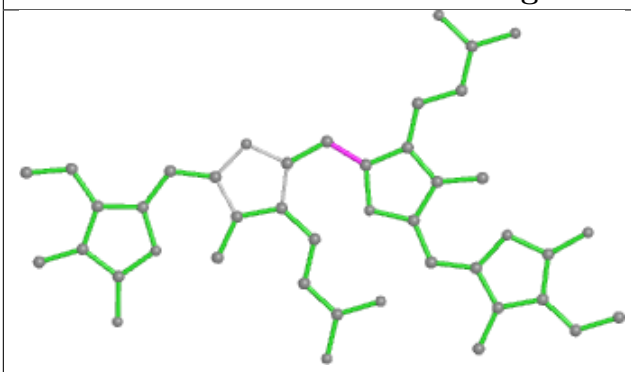


Rings

Ligand CYC i2 201



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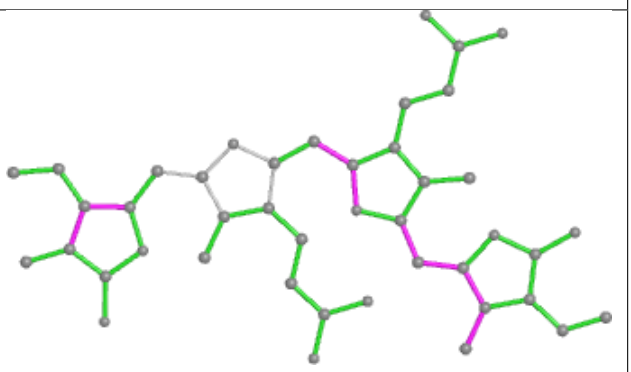

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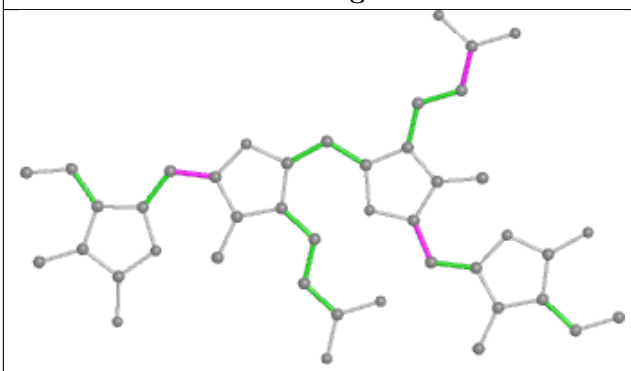

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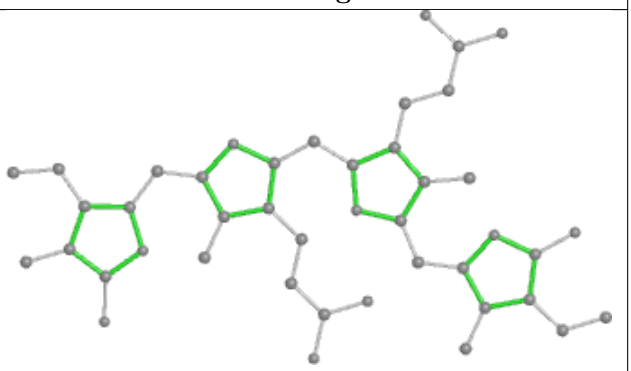
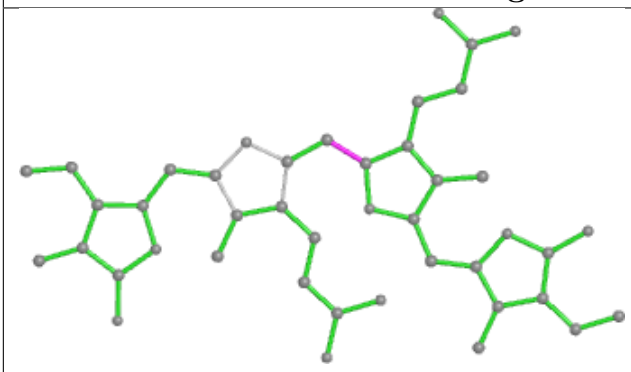


Rings

Ligand CYC k3 1205



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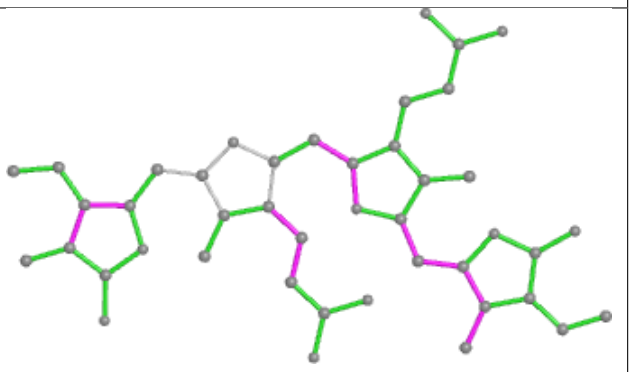
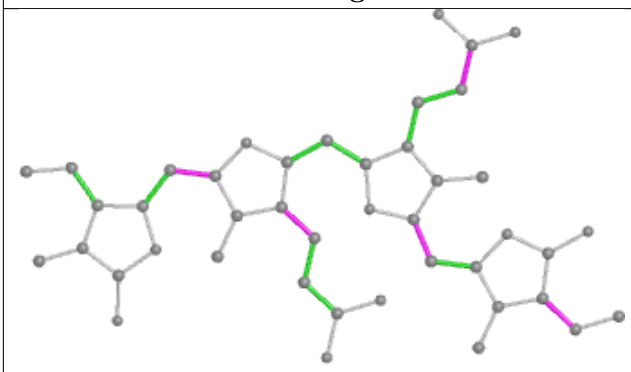


Bond angles



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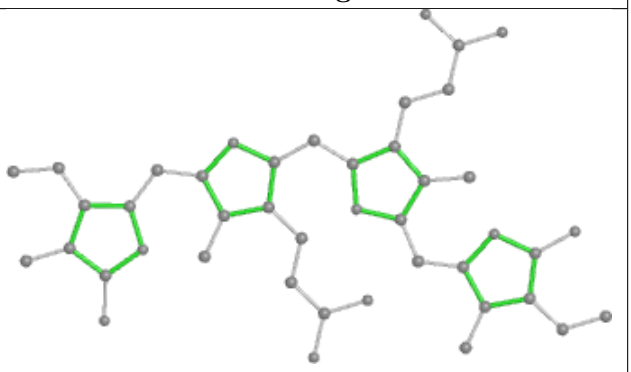
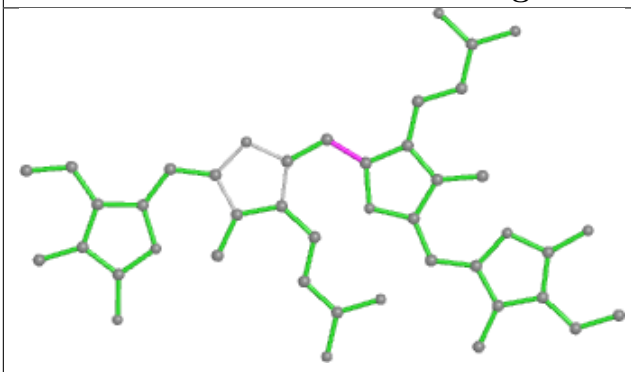


Rings

Ligand CYC K3 201



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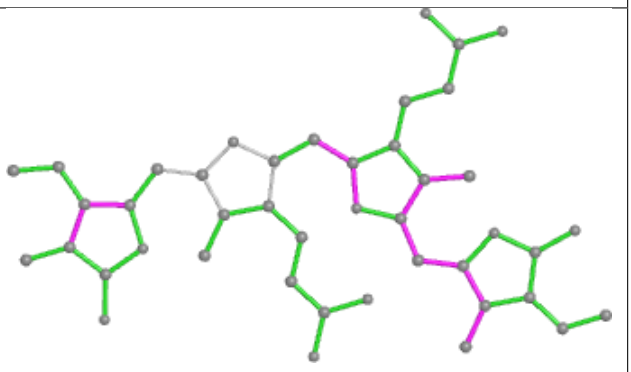
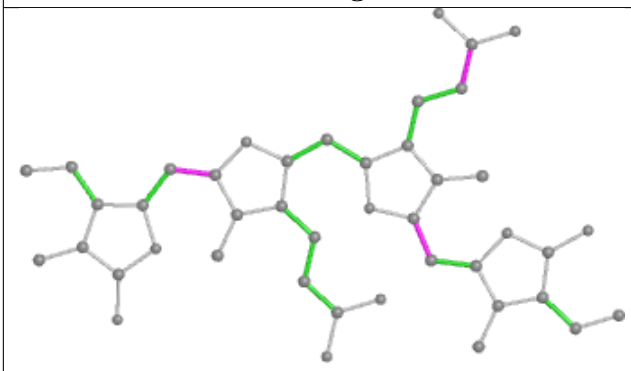


Bond angles



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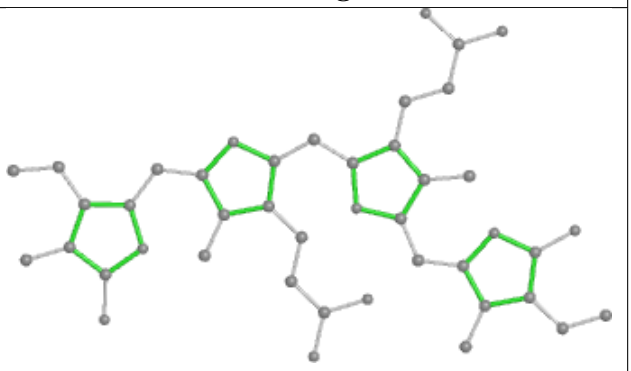
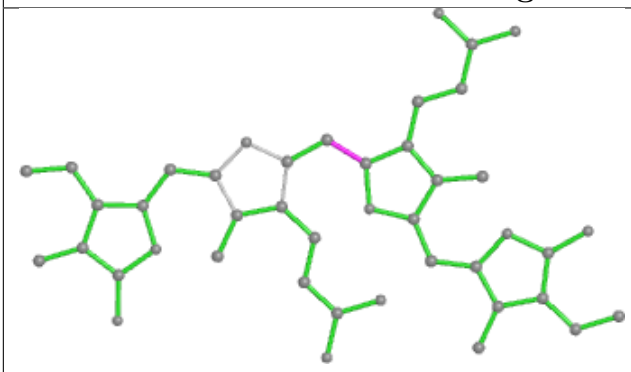


Rings

Ligand CYC k2 201



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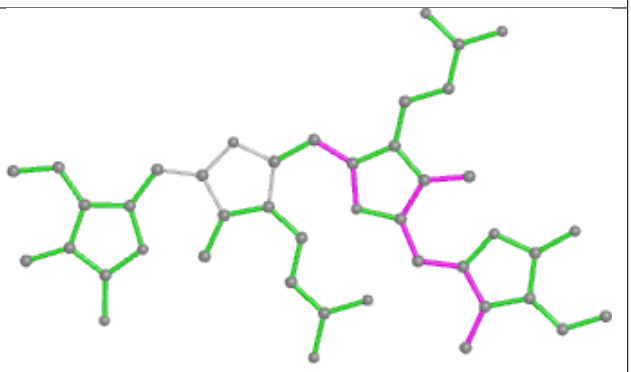
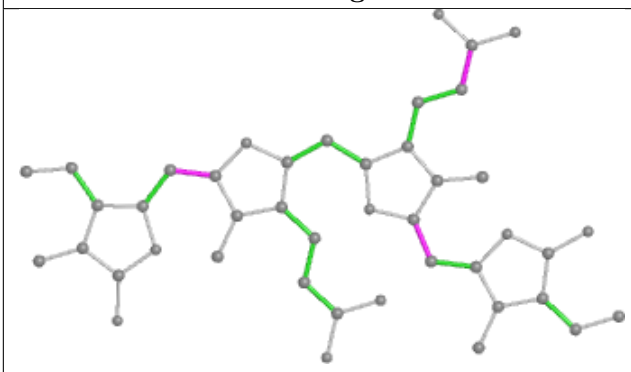
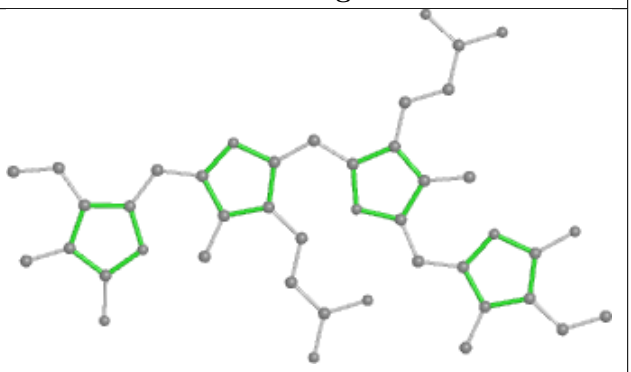


Bond angles

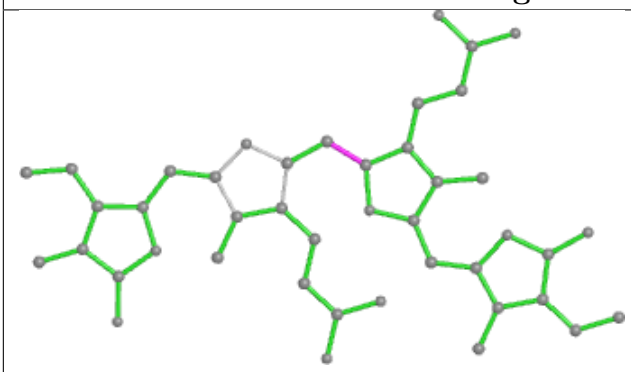


Torsions

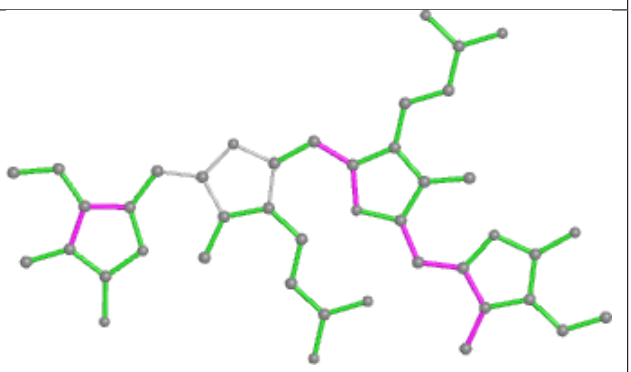


Rings

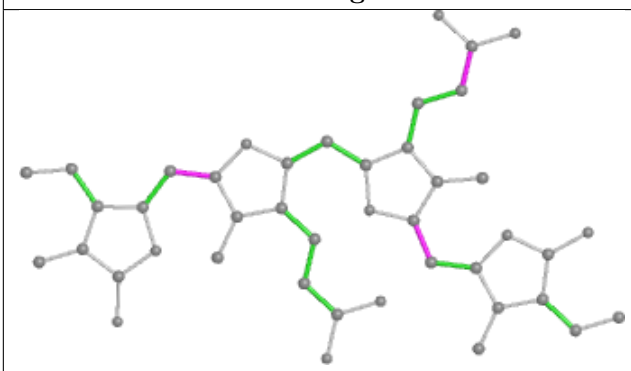
Ligand CYC C1 201



Bond lengths



Bond angles



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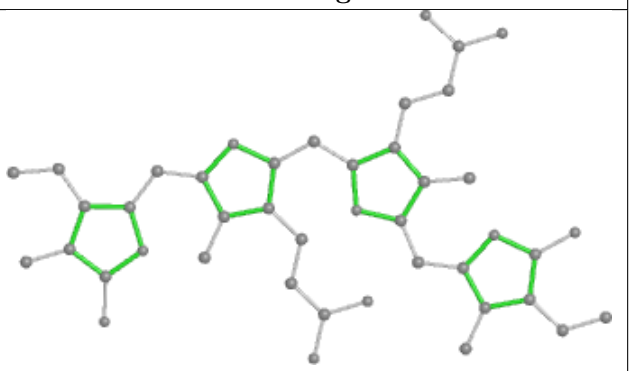
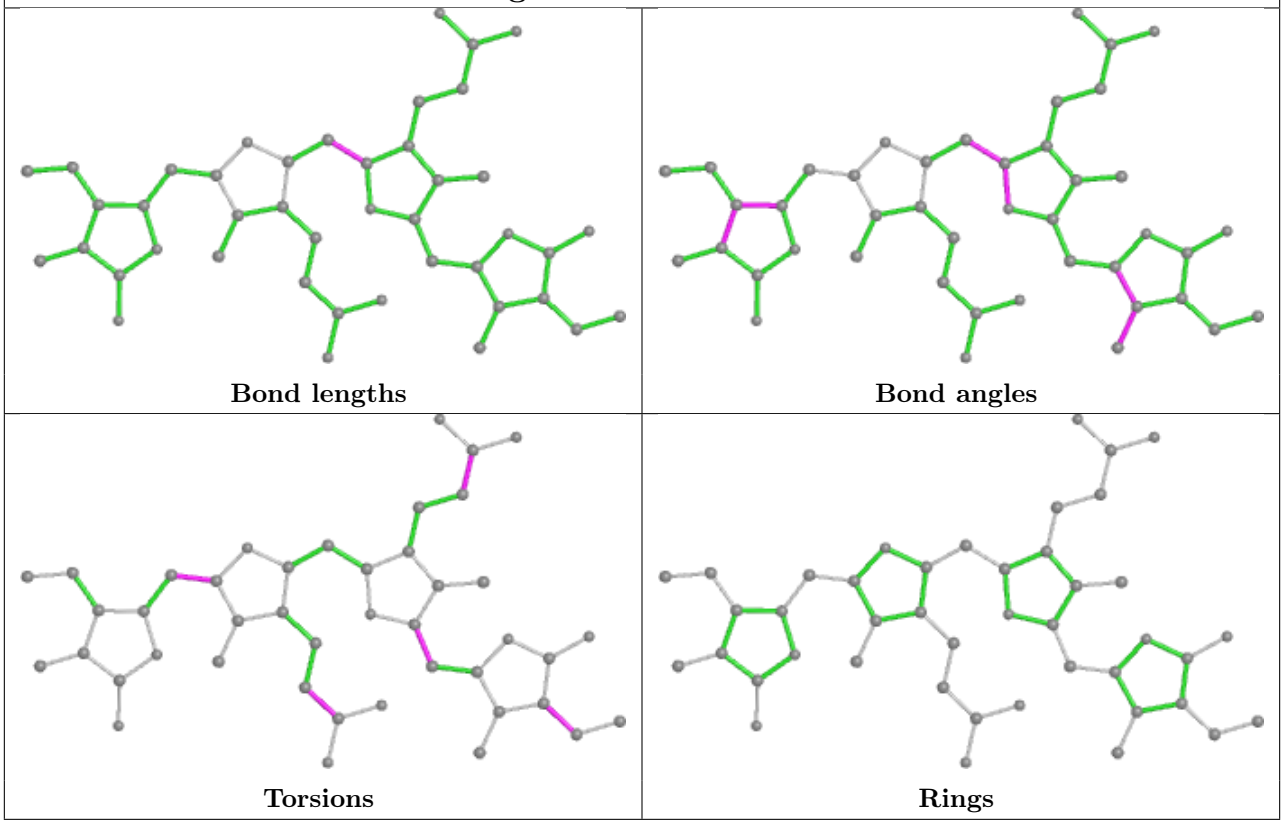


Rings

Ligand CYC k3 1204



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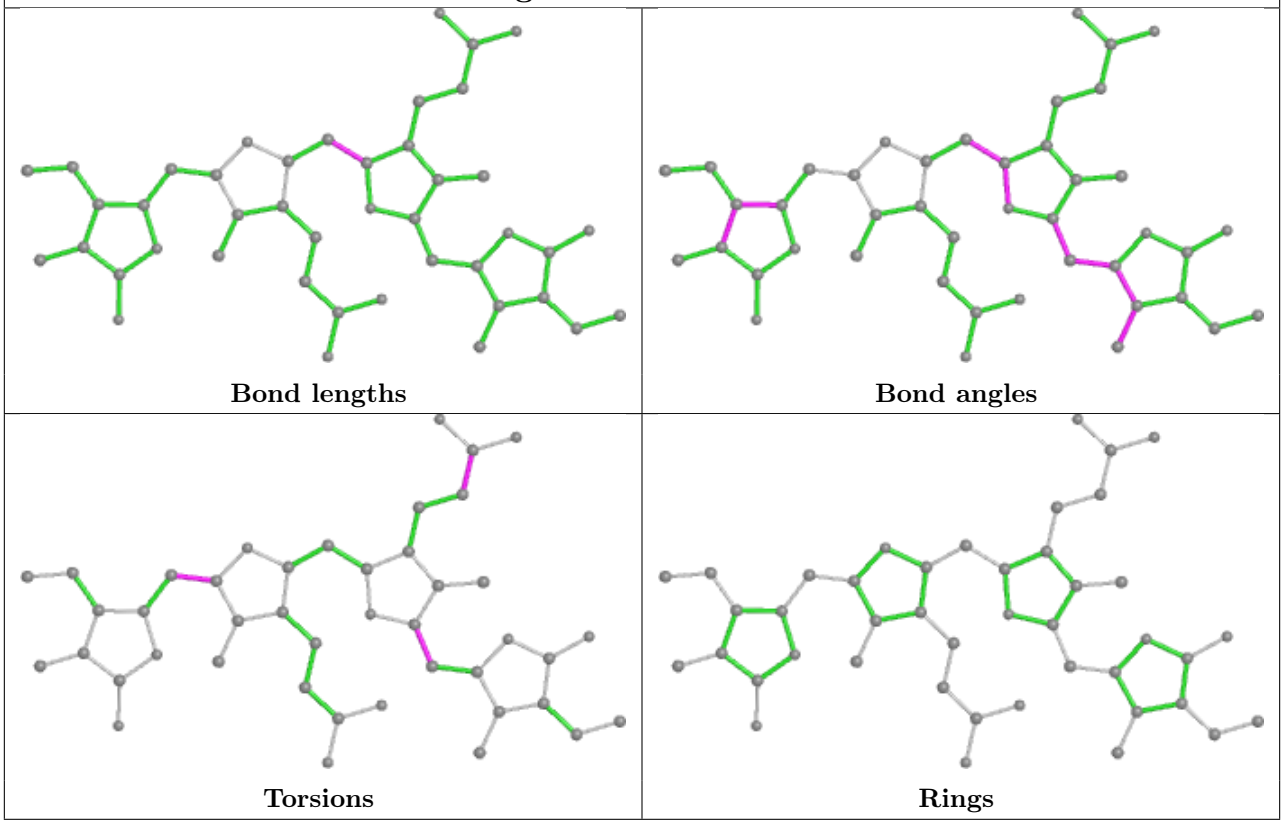

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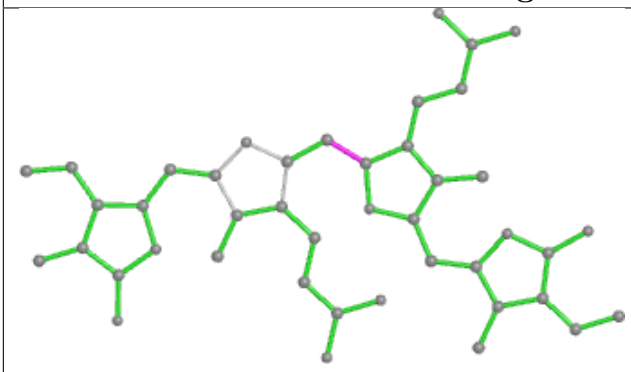

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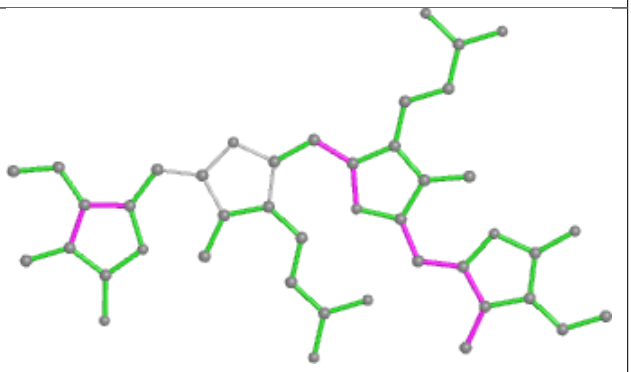
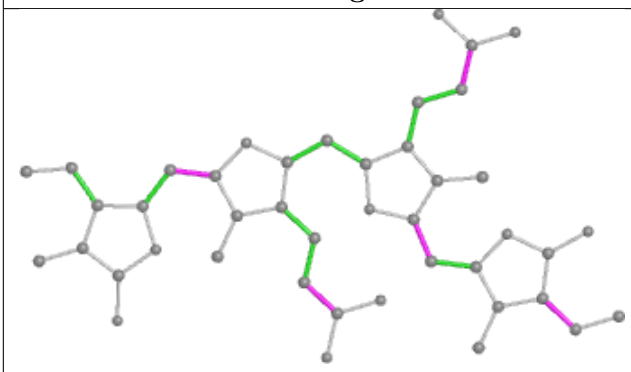


Bond angles



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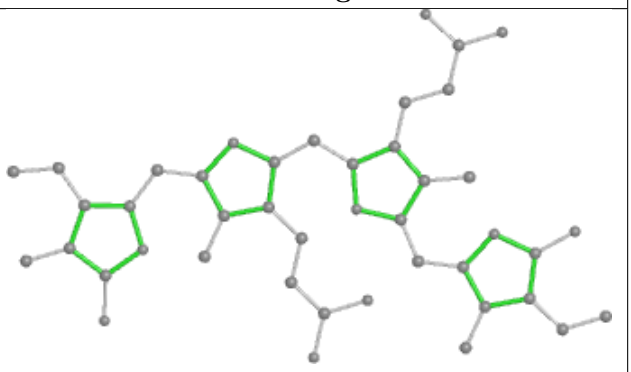
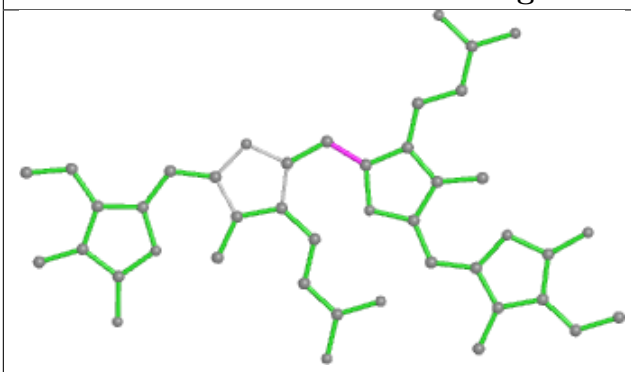


Rings

Ligand CYC o2 201



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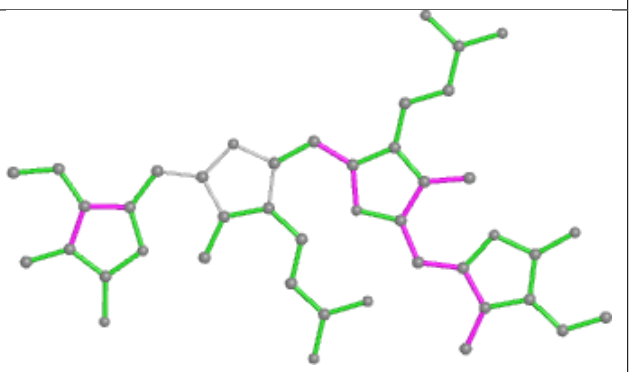

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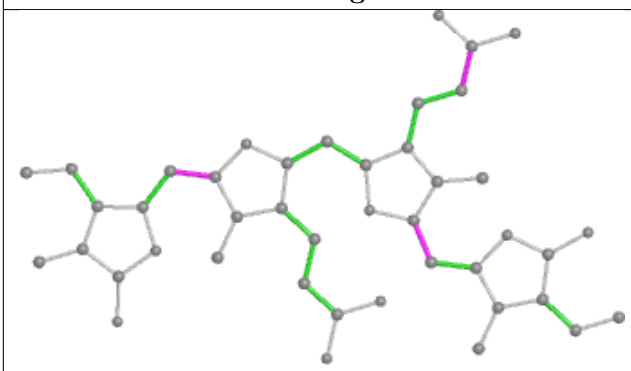

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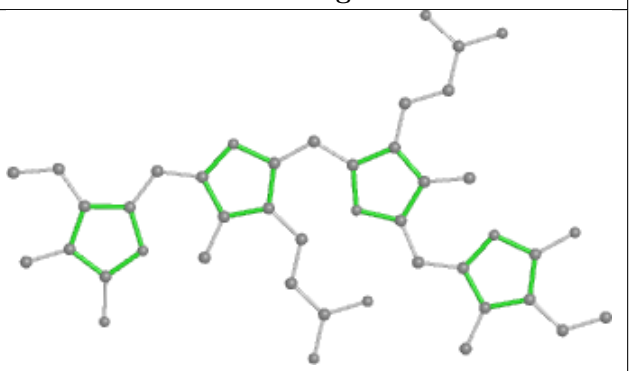

Rings

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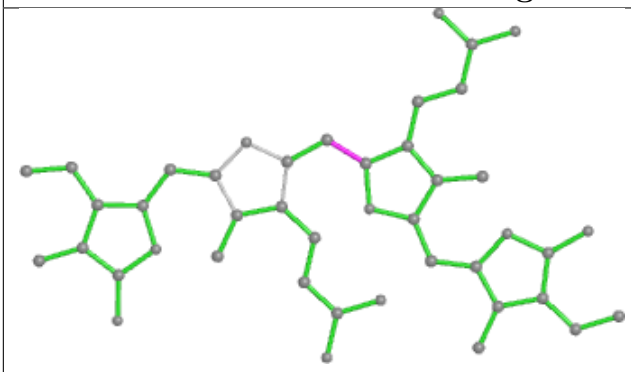

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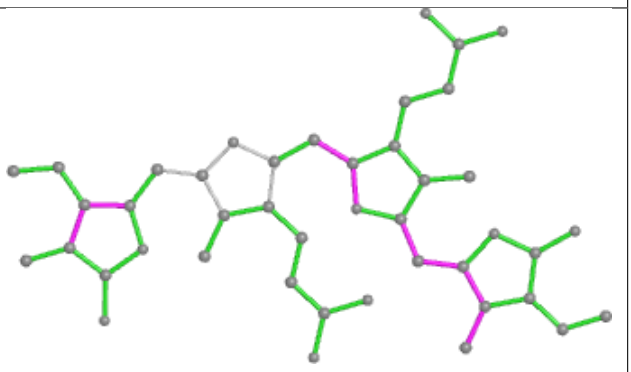
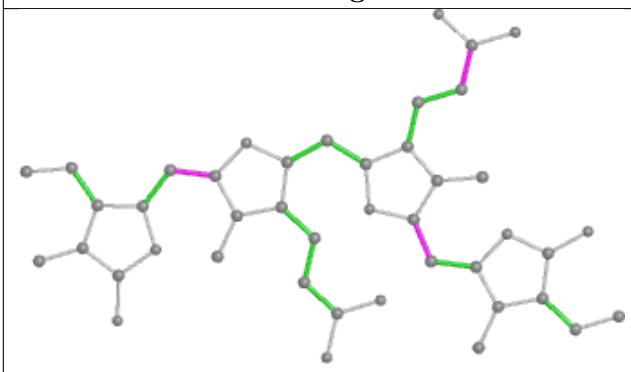


Bond angles



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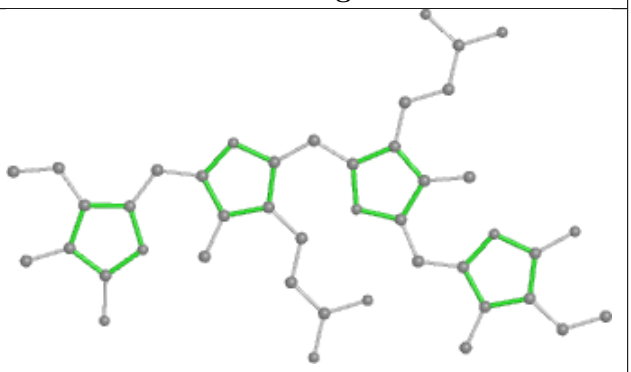
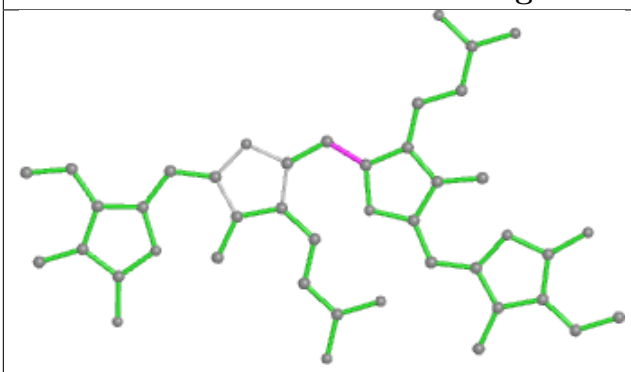


Rings

Ligand CYC L2 201



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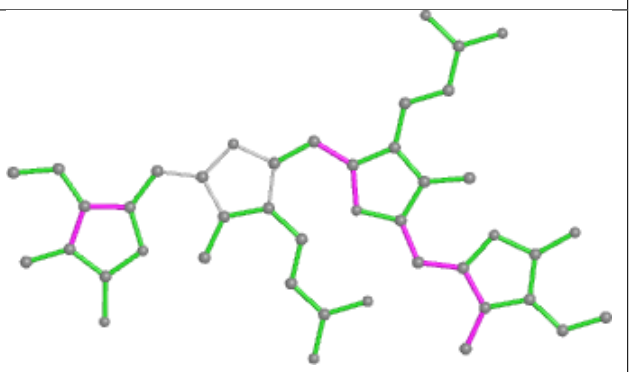

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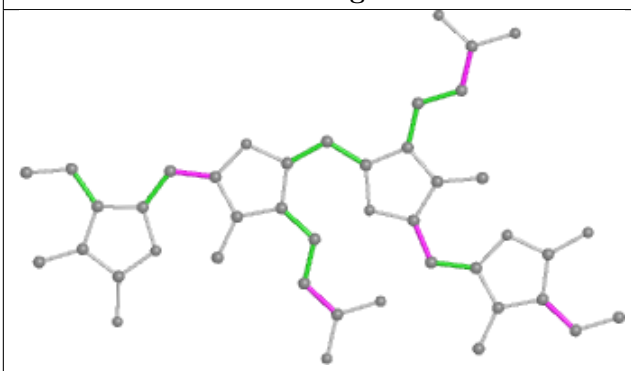

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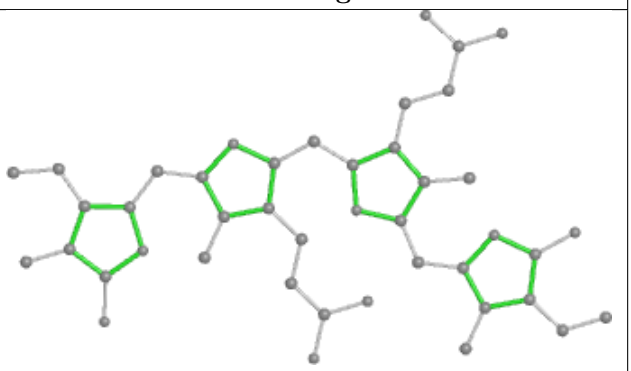

Rings

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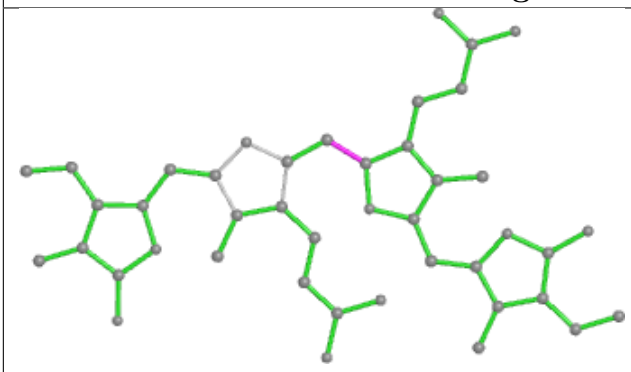

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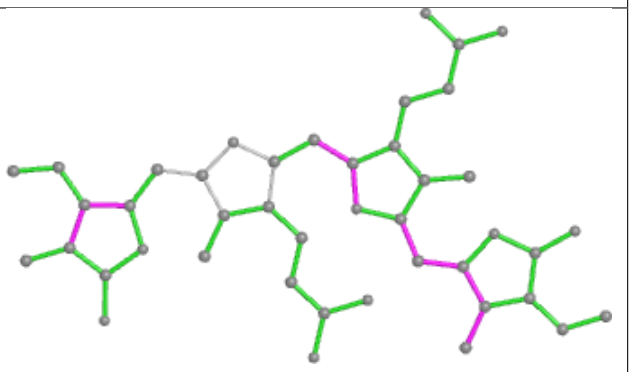

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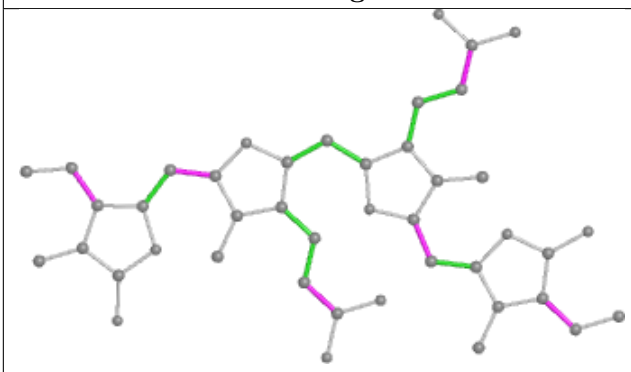

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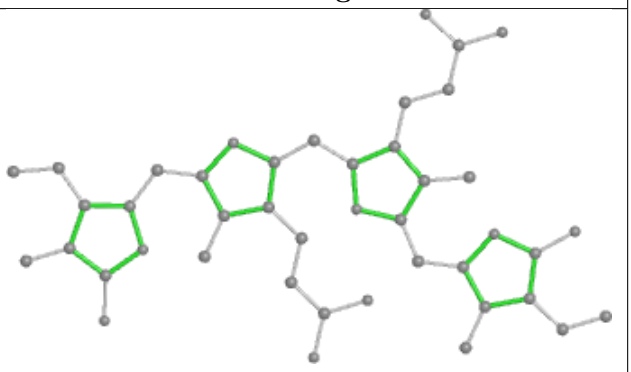

Rings

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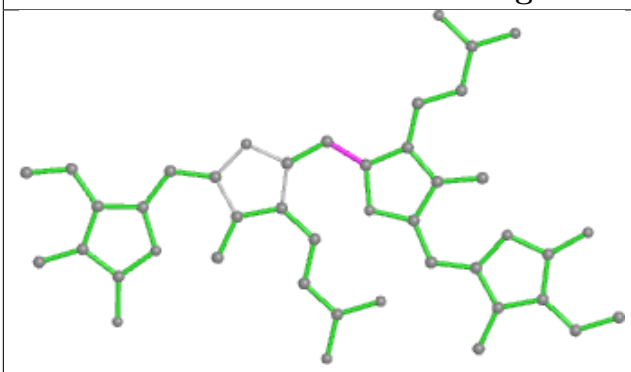

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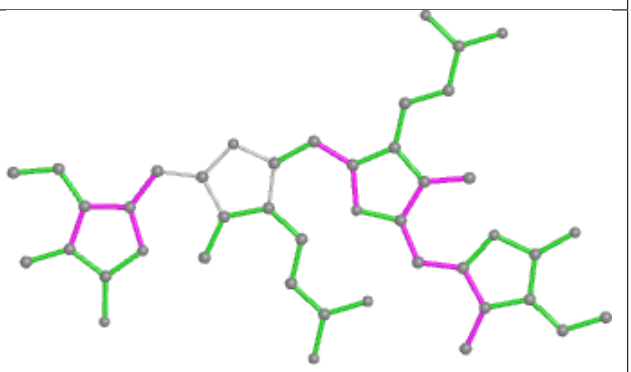

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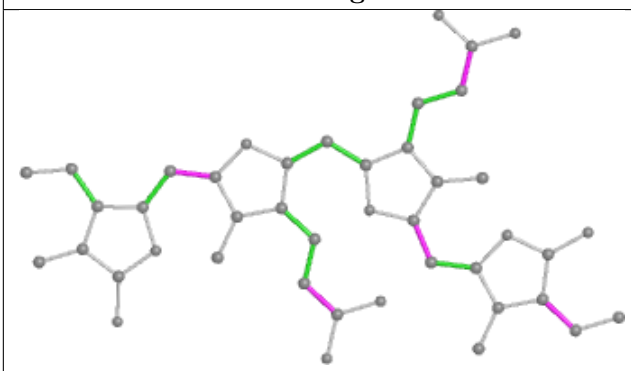

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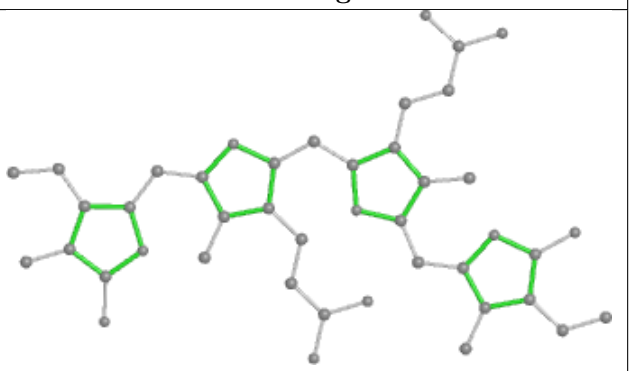
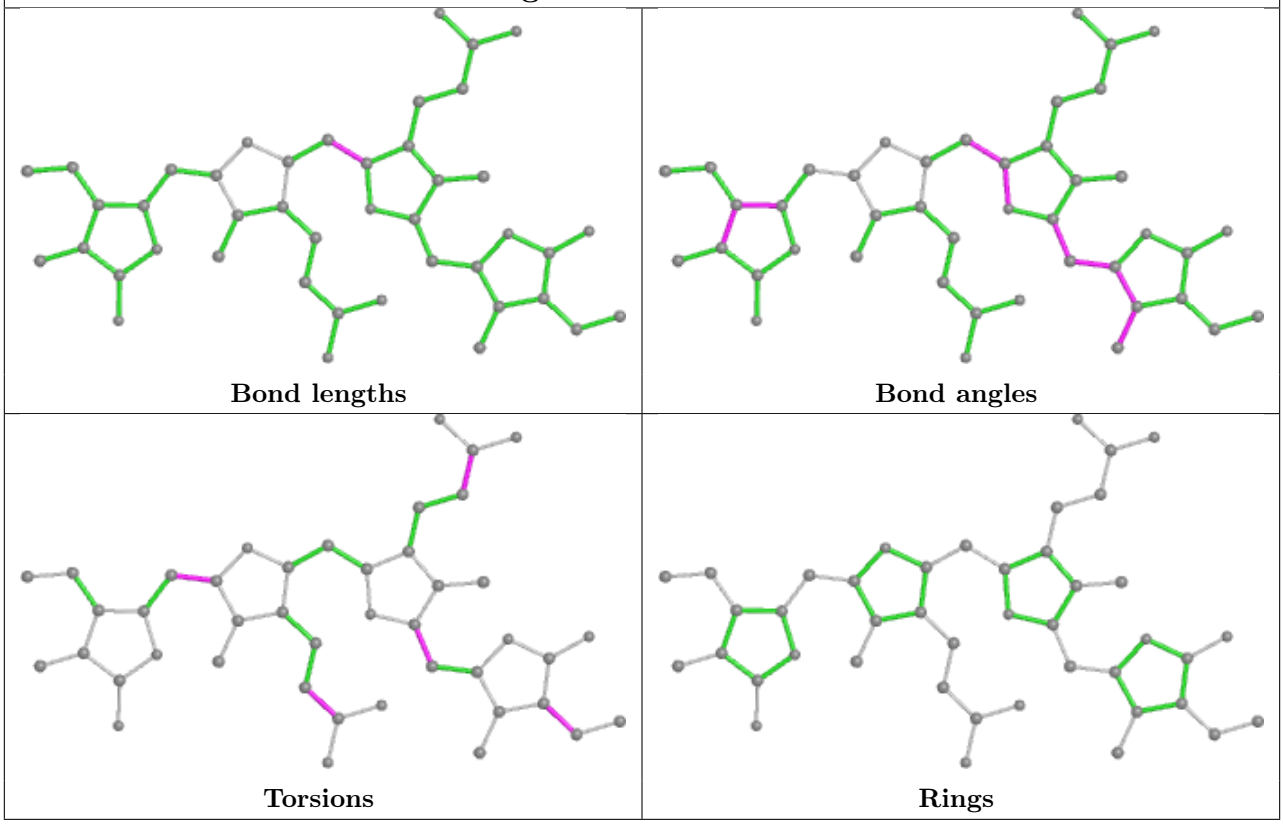
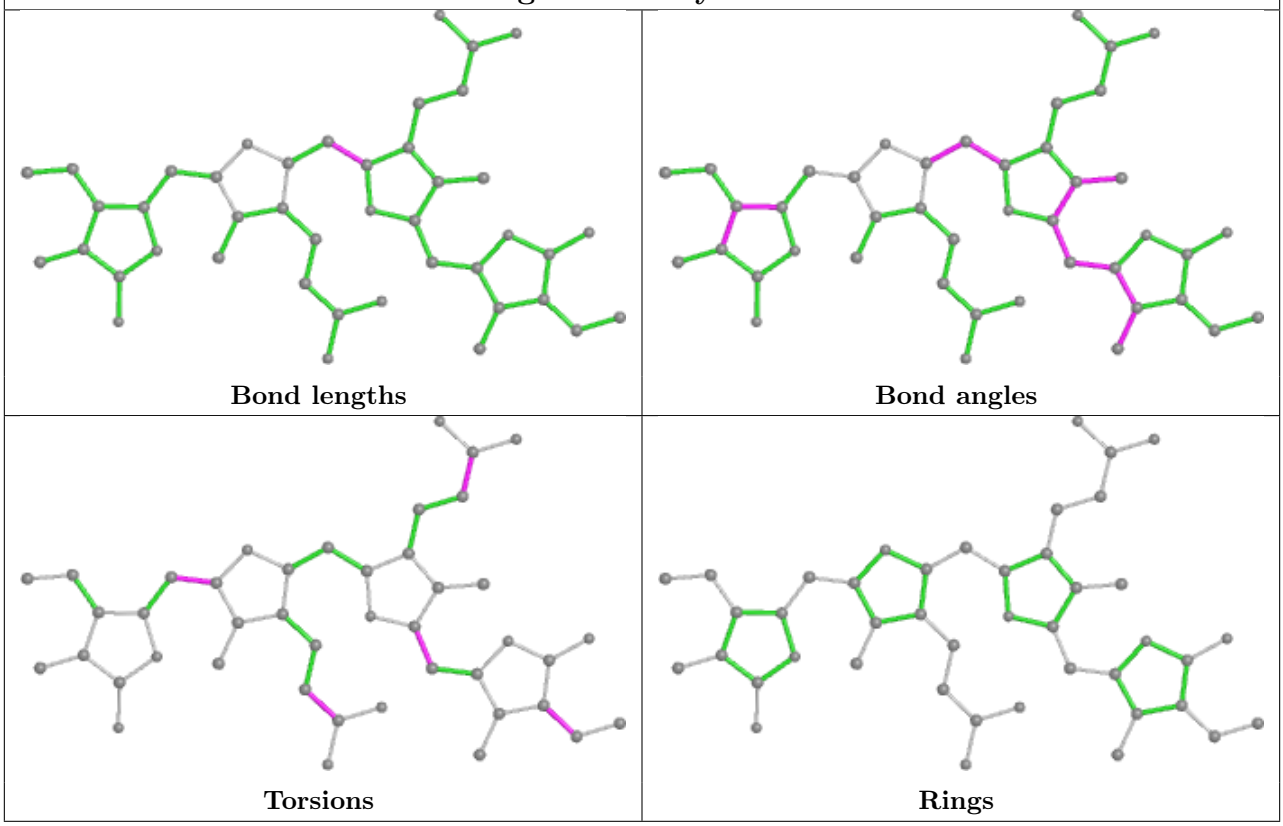


Rings

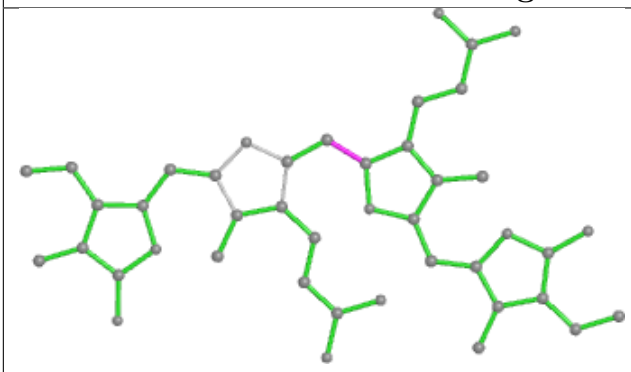
Ligand CYC f3 201



Ligand CYC y2 101



Ligand CYC g3 201



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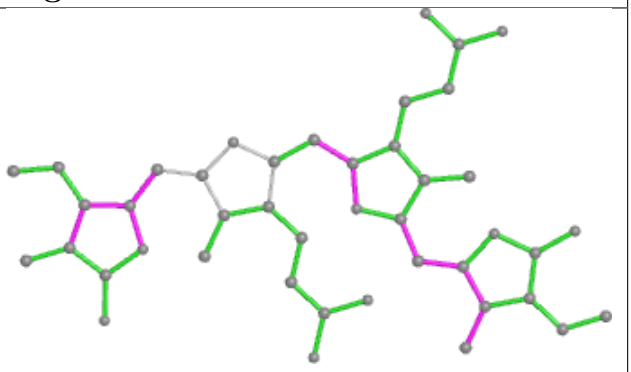

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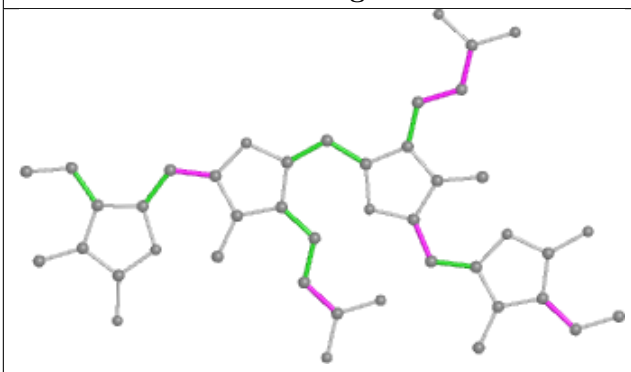

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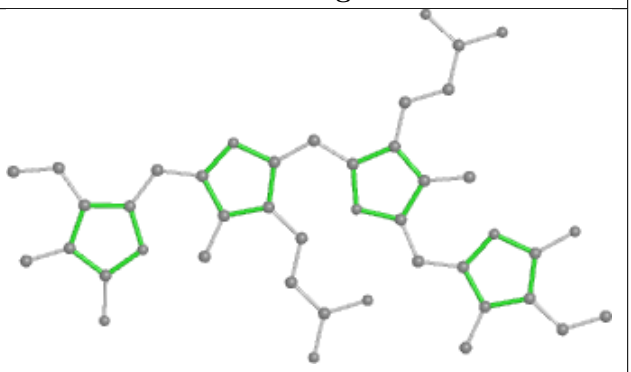

Rings

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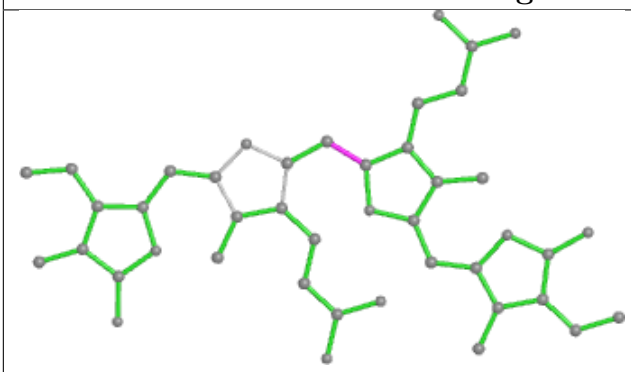

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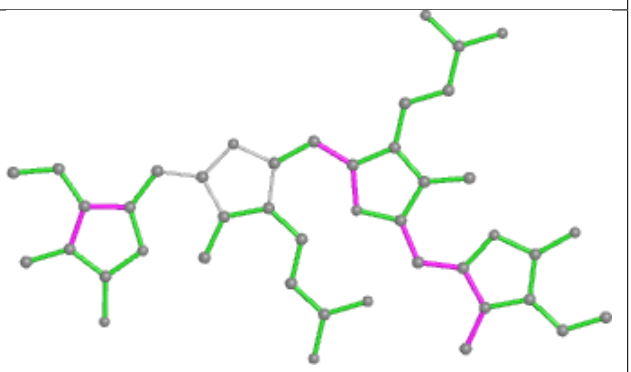
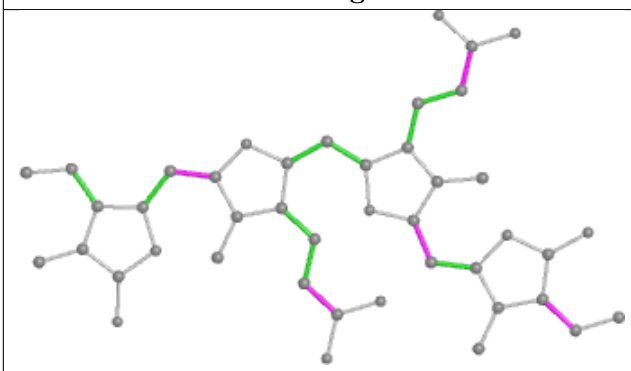


Bond angles



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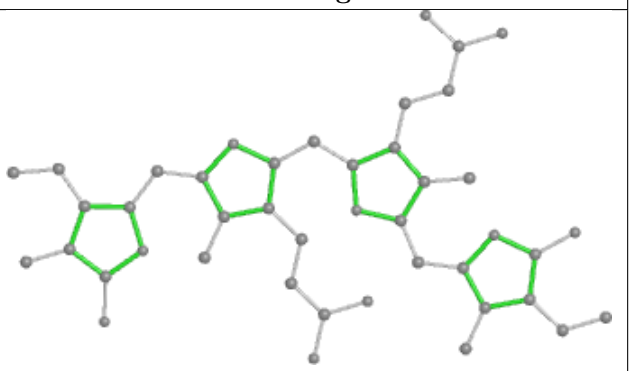
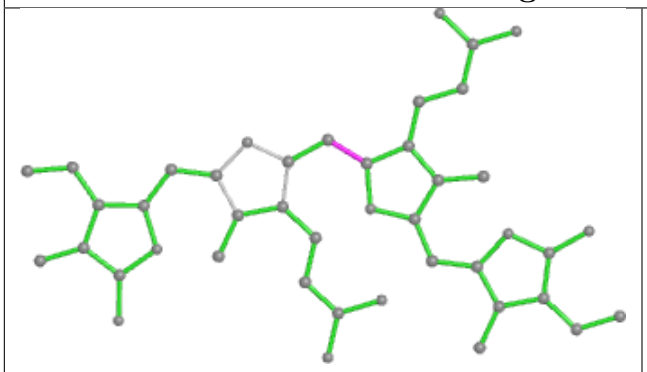


Rings

Ligand CYC z1 101



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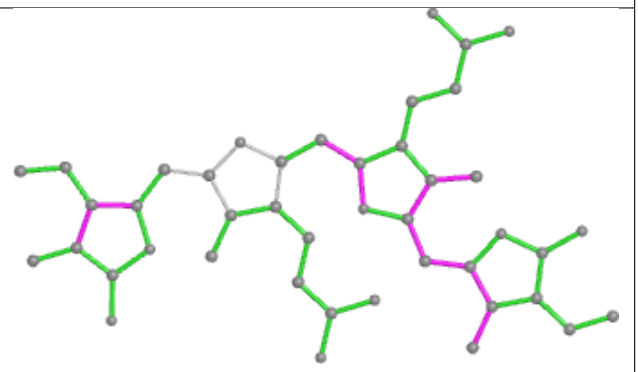

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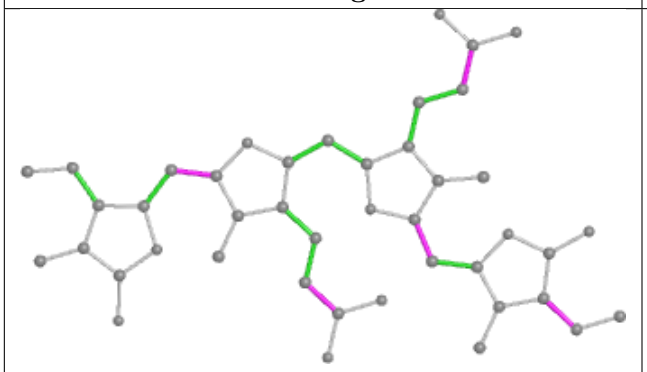

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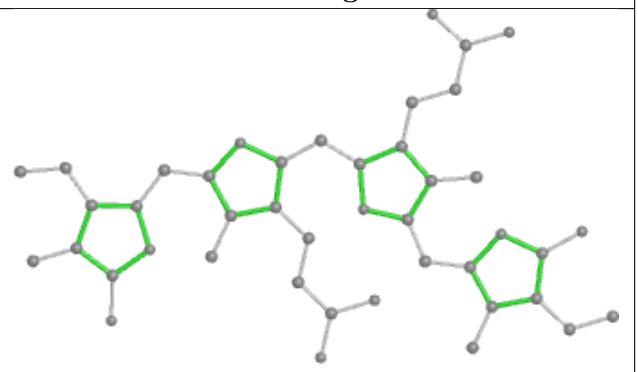
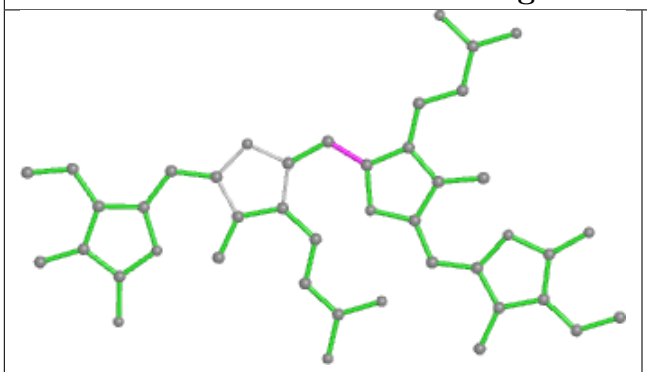


Rings

Ligand CYC x2 101



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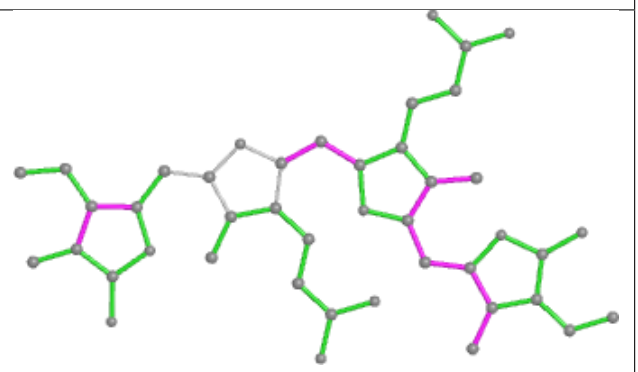
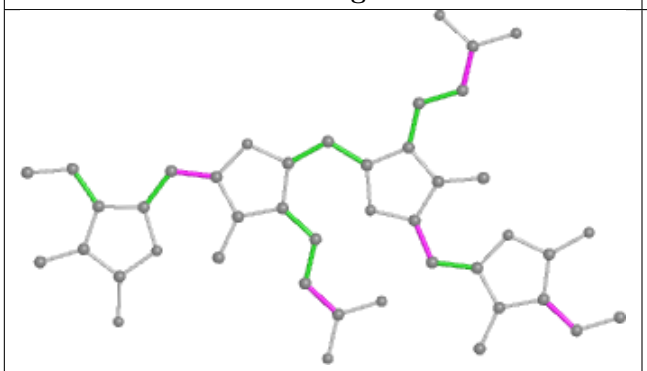


Bond angles



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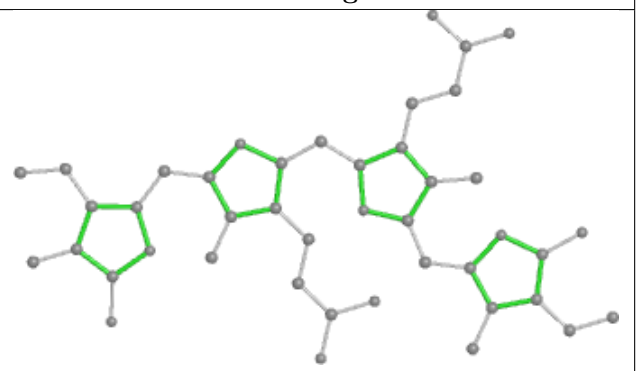
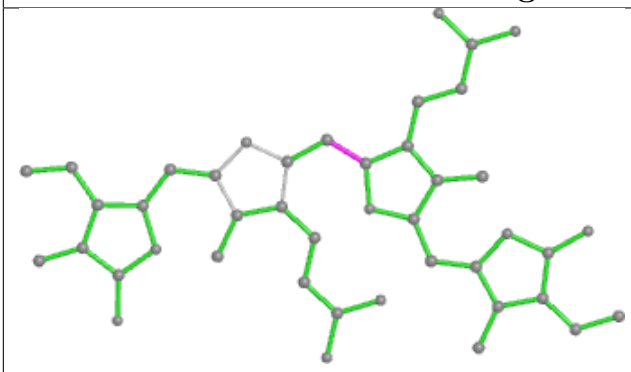


Rings

Ligand CYC c3 201



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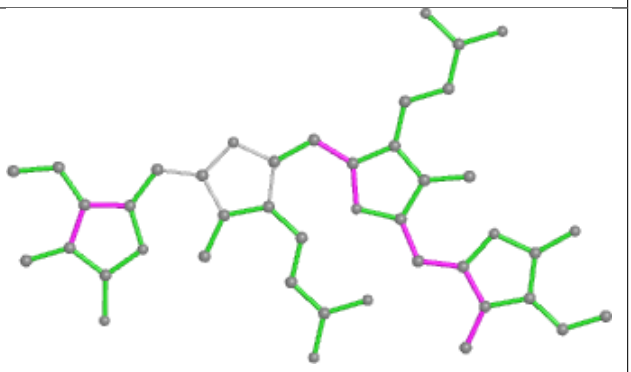
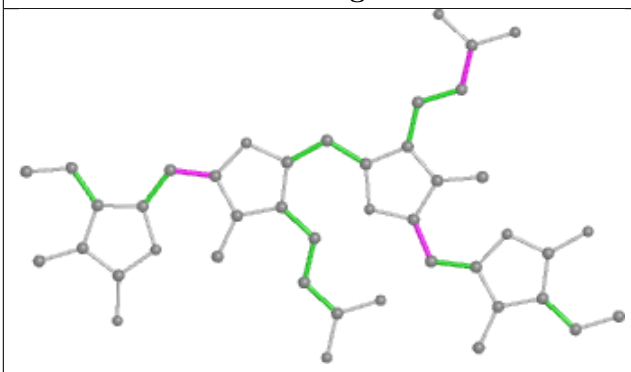


Bond angles



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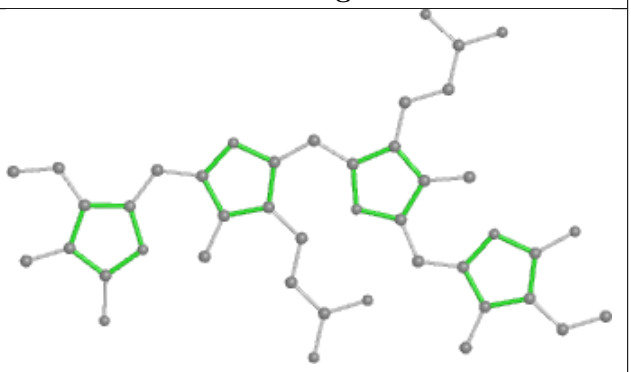
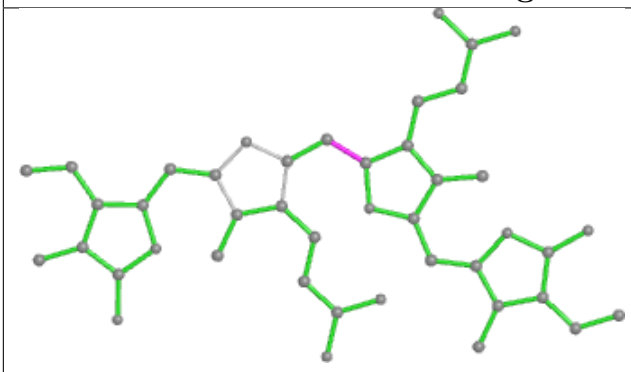
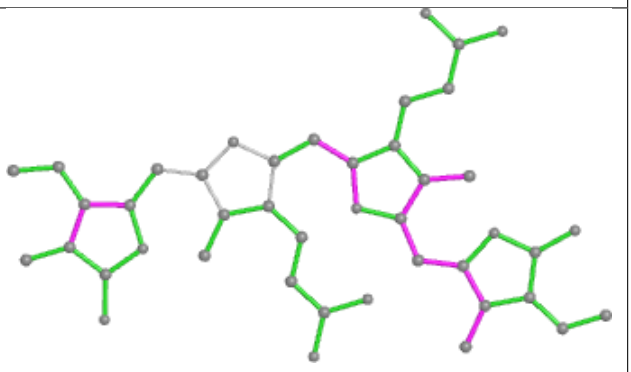


Rings

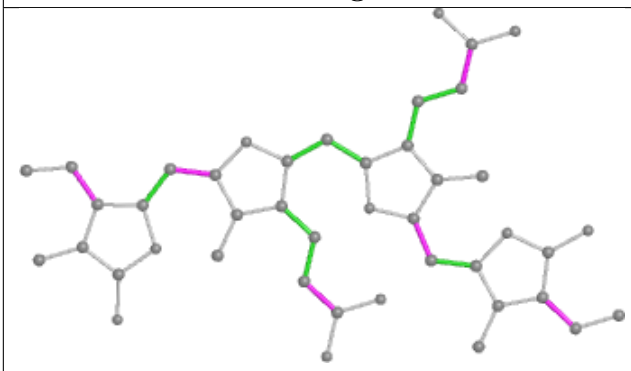
Ligand CYC v2 201



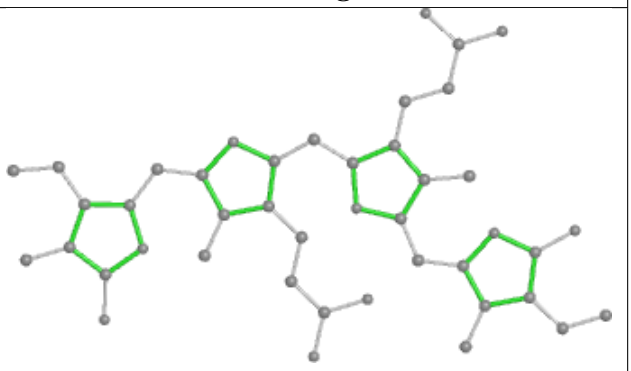
Bond lengths



Bond angles

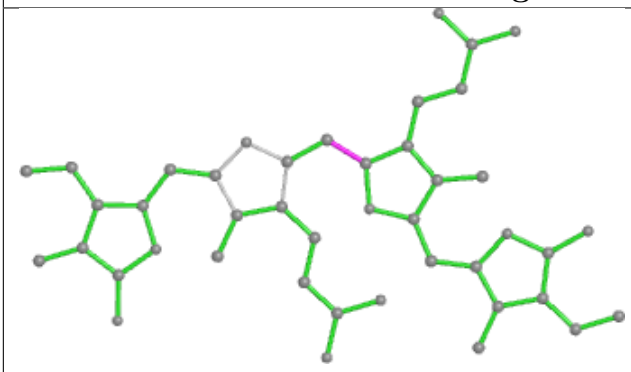


Torsions

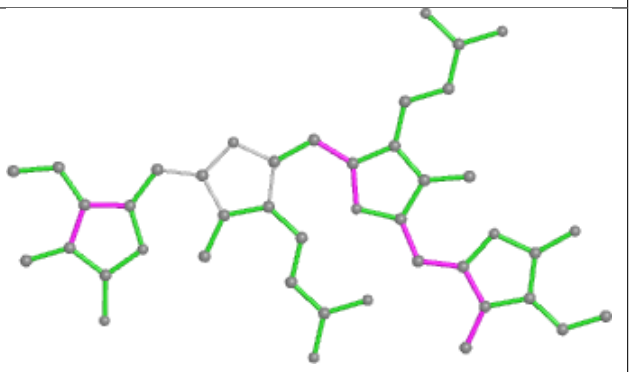


Rings

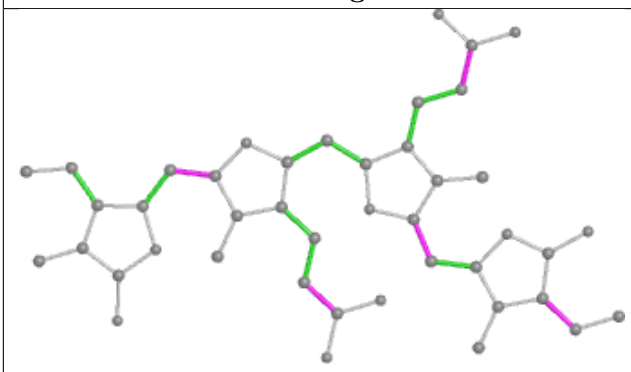
Ligand CYC N2 201



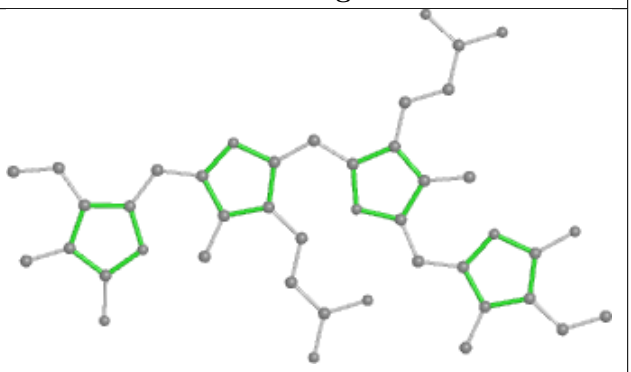
Bond lengths



Bond angles

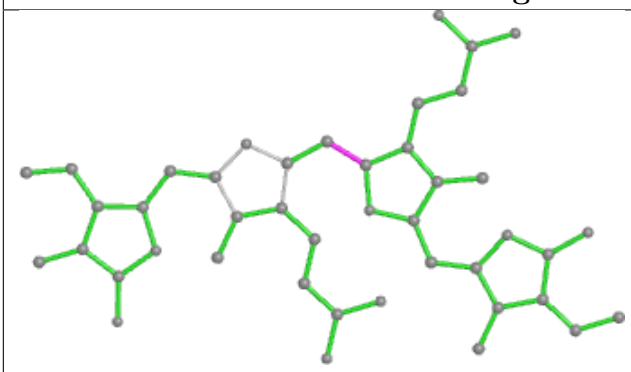


Torsions

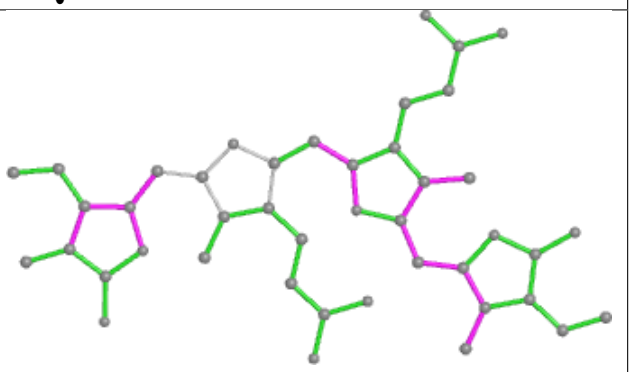


Rings

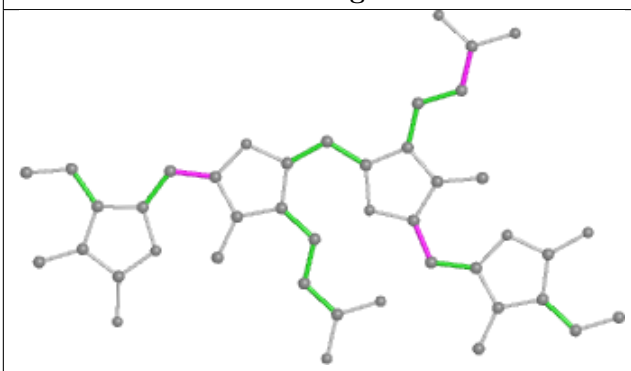
Ligand CYC Q2 201



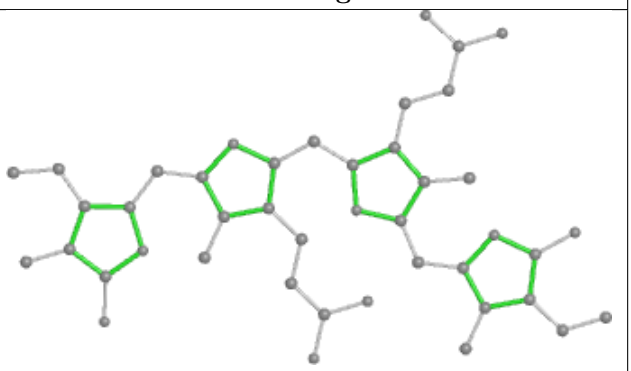
Bond lengths



Bond angles

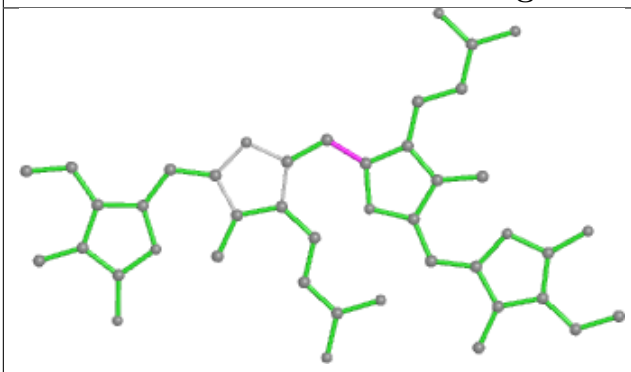


Torsions

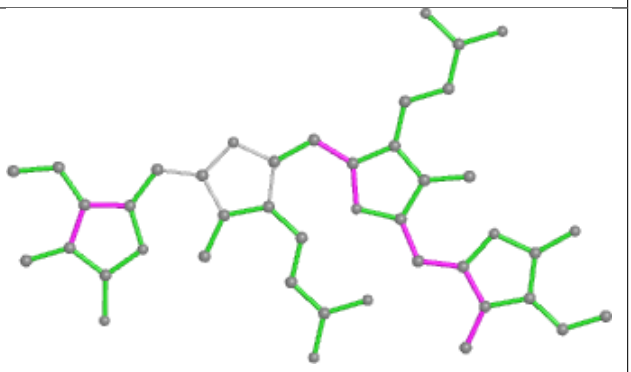


Rings

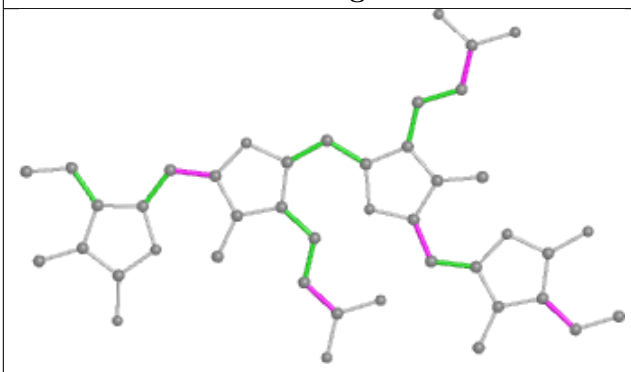
Ligand CYC J1 201



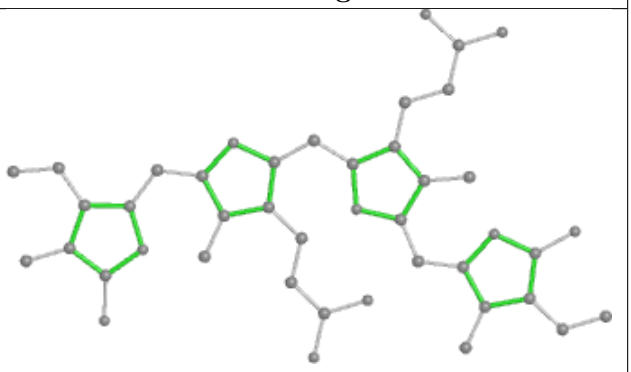
Bond lengths



Bond angles

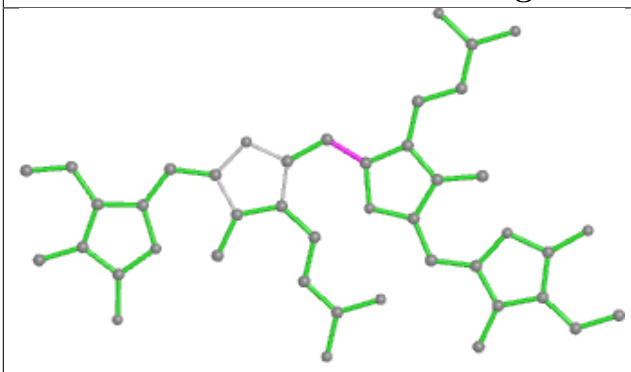


Torsions

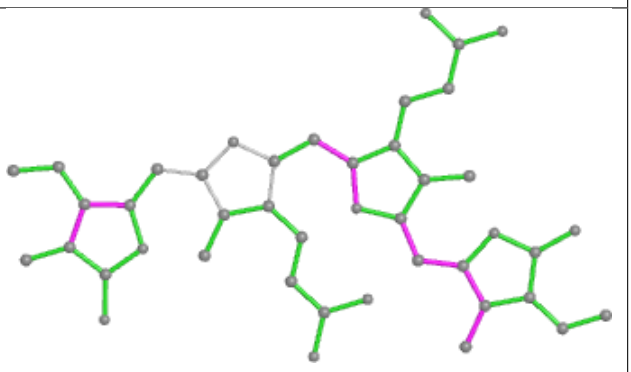


Rings

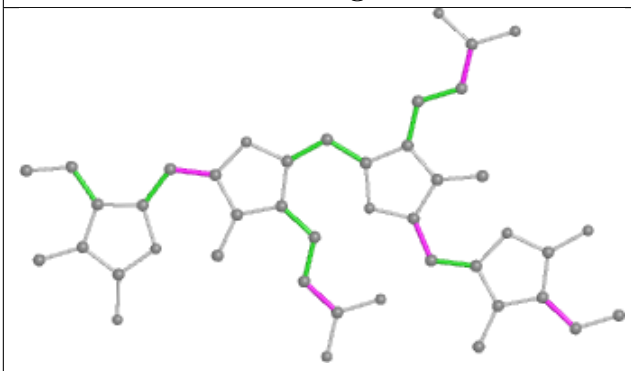
Ligand CYC Z3 201



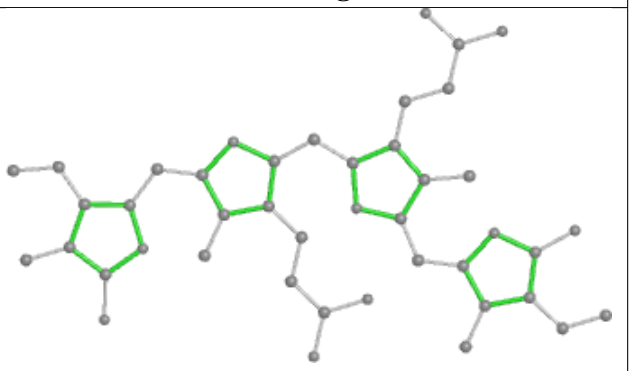
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

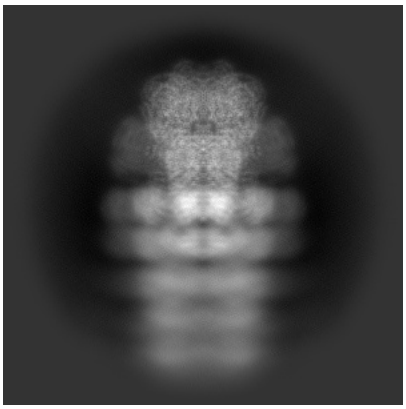
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-63604. These allow visual inspection of the internal detail of the map and identification of artifacts.

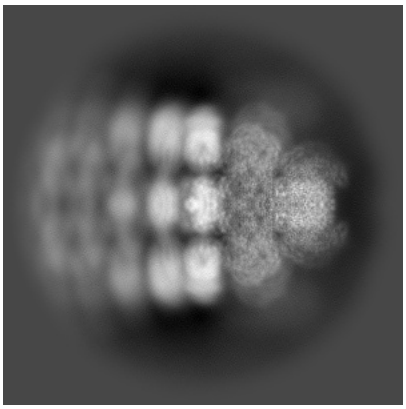
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

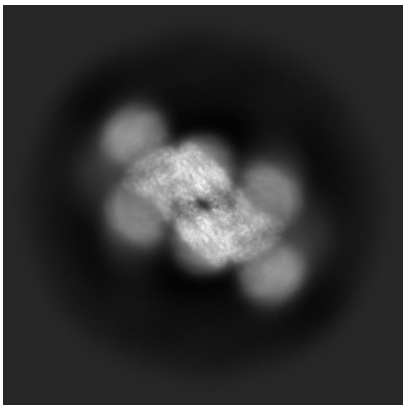
6.1.1 Primary map



X

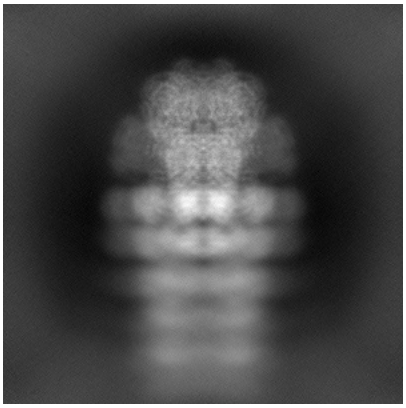


Y

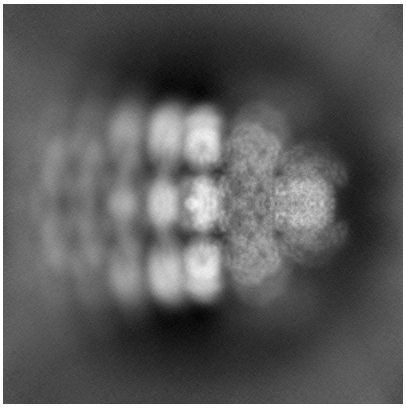


Z

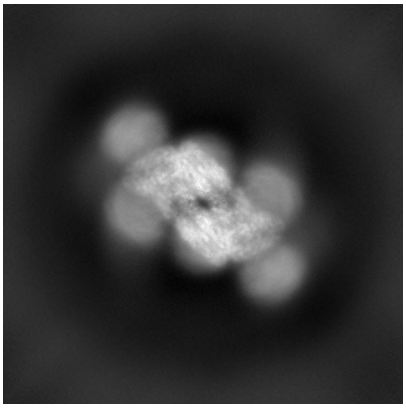
6.1.2 Raw map



X



Y

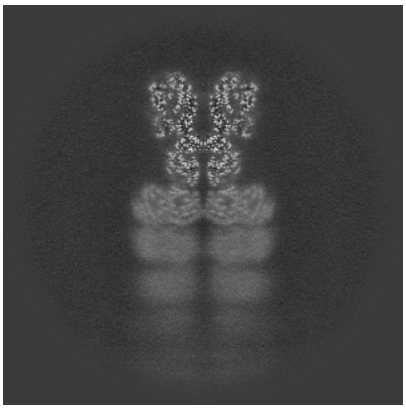


Z

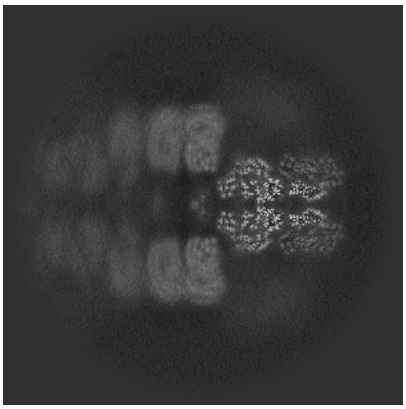
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

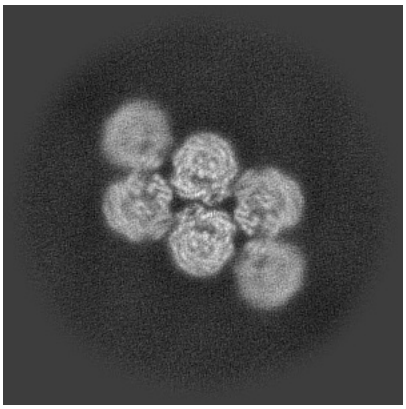
6.2.1 Primary map



X Index: 290

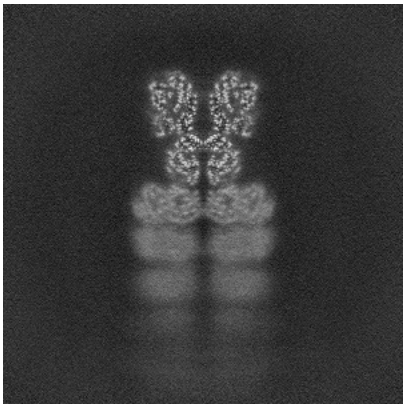


Y Index: 290

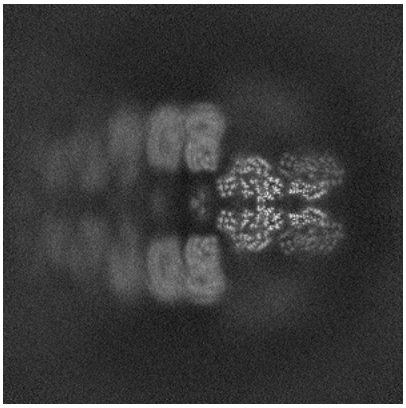


Z Index: 290

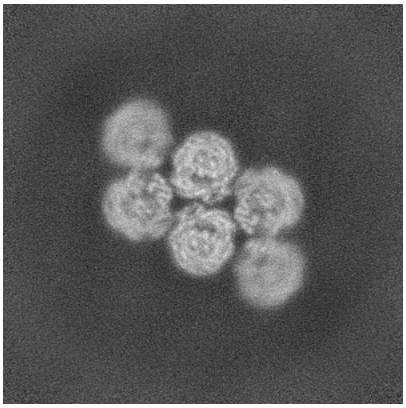
6.2.2 Raw map



X Index: 290



Y Index: 290

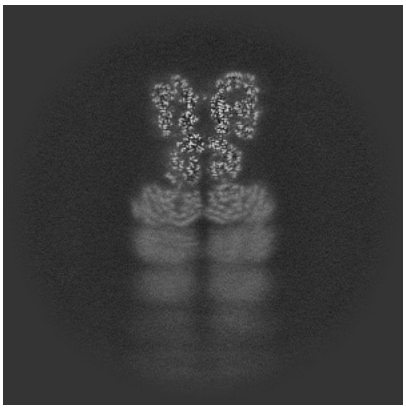


Z Index: 290

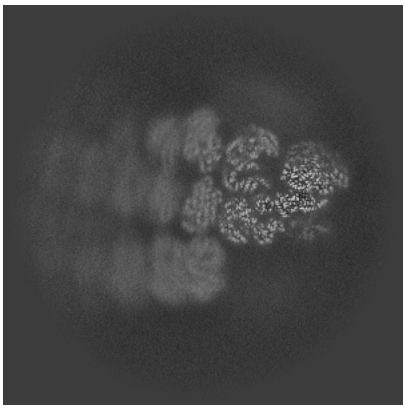
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

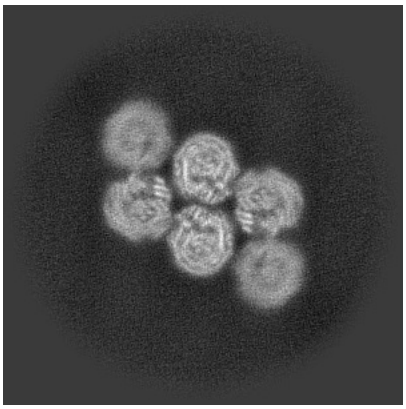
6.3.1 Primary map



X Index: 285

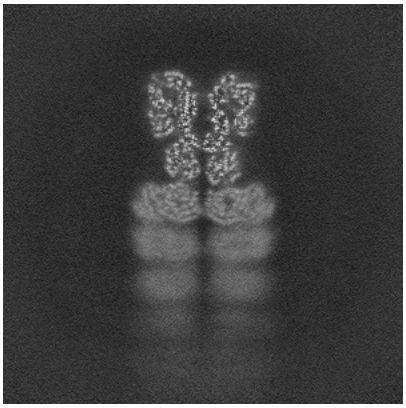


Y Index: 269

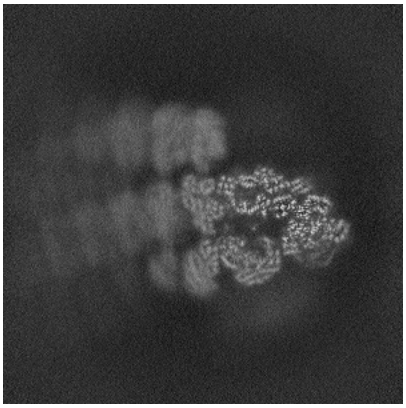


Z Index: 287

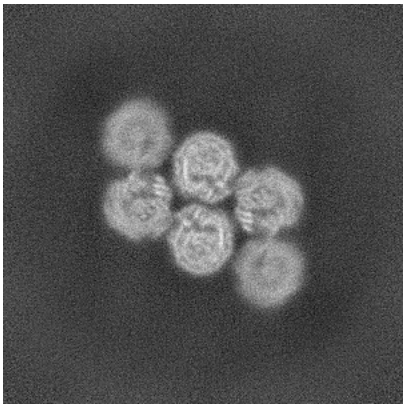
6.3.2 Raw map



X Index: 293



Y Index: 318

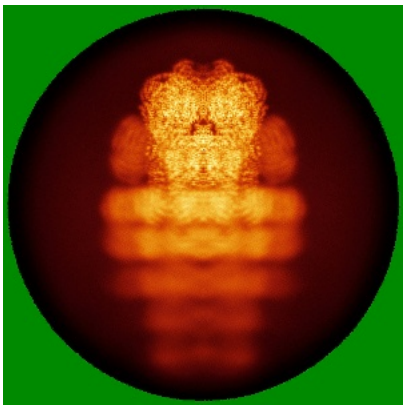


Z Index: 287

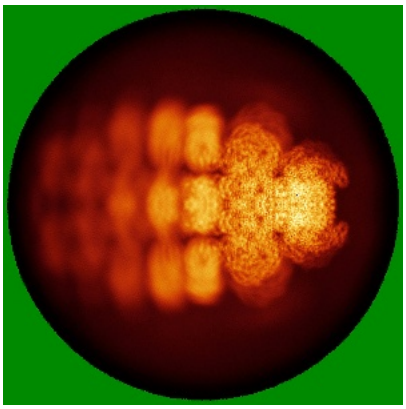
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

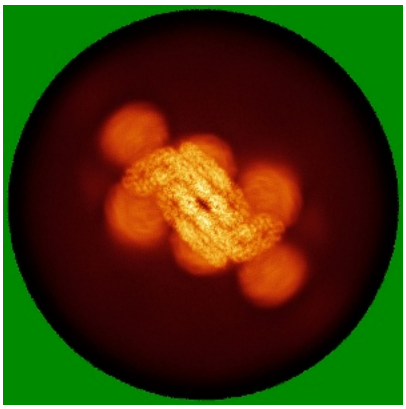
6.4.1 Primary map



X

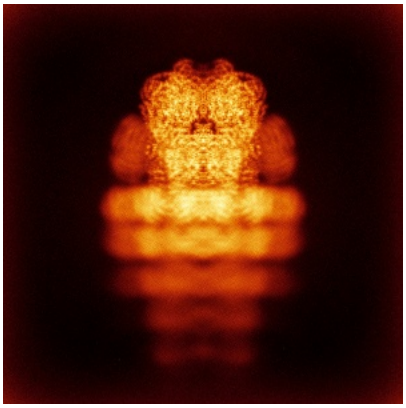


Y

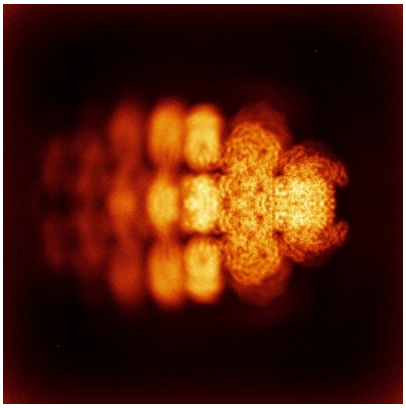


Z

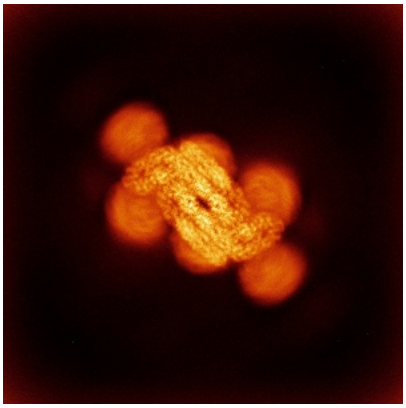
6.4.2 Raw map



X



Y

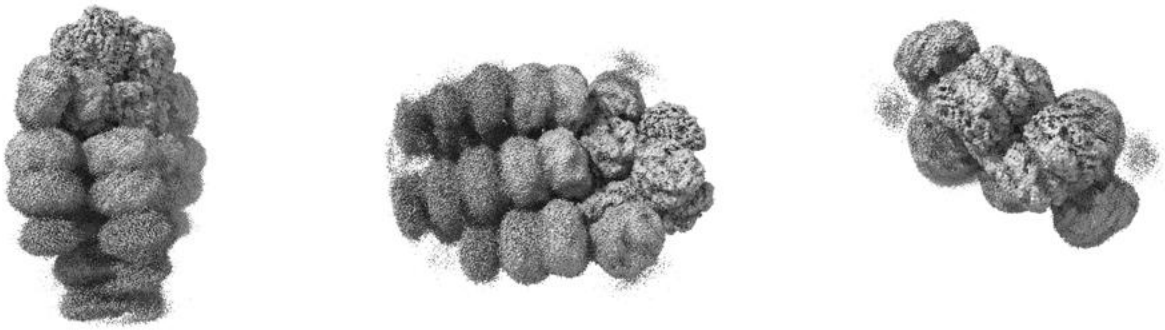


Z

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)

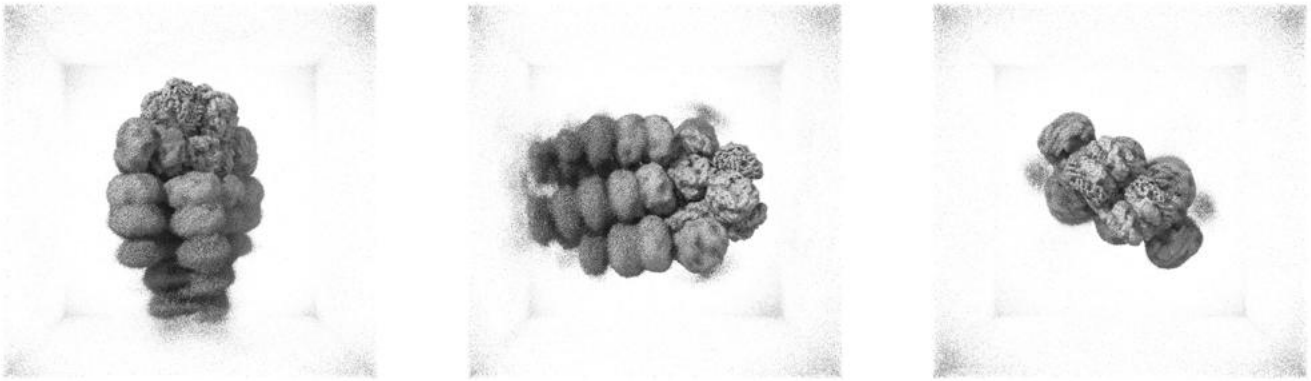
6.5.1 Primary map



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.

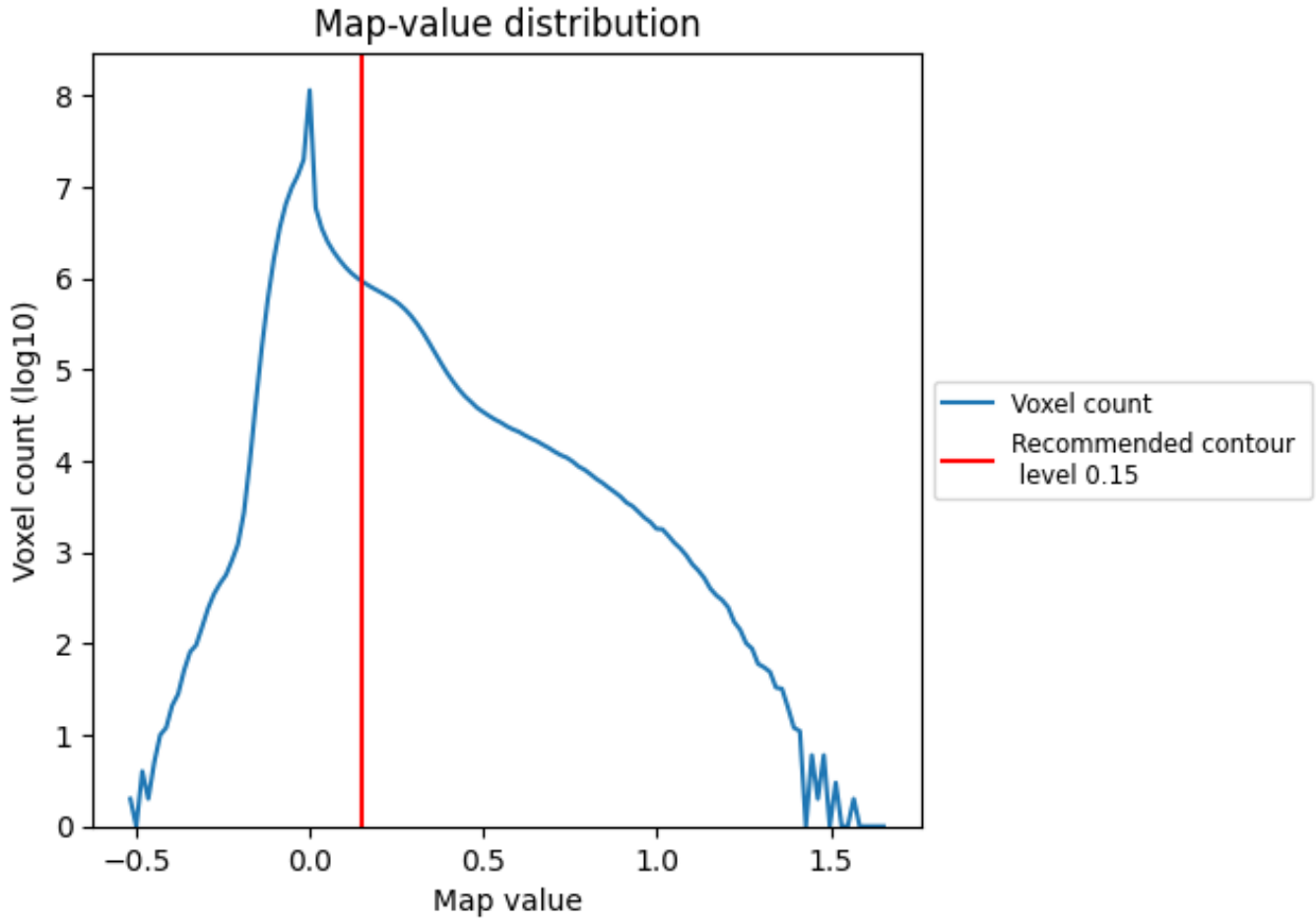
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

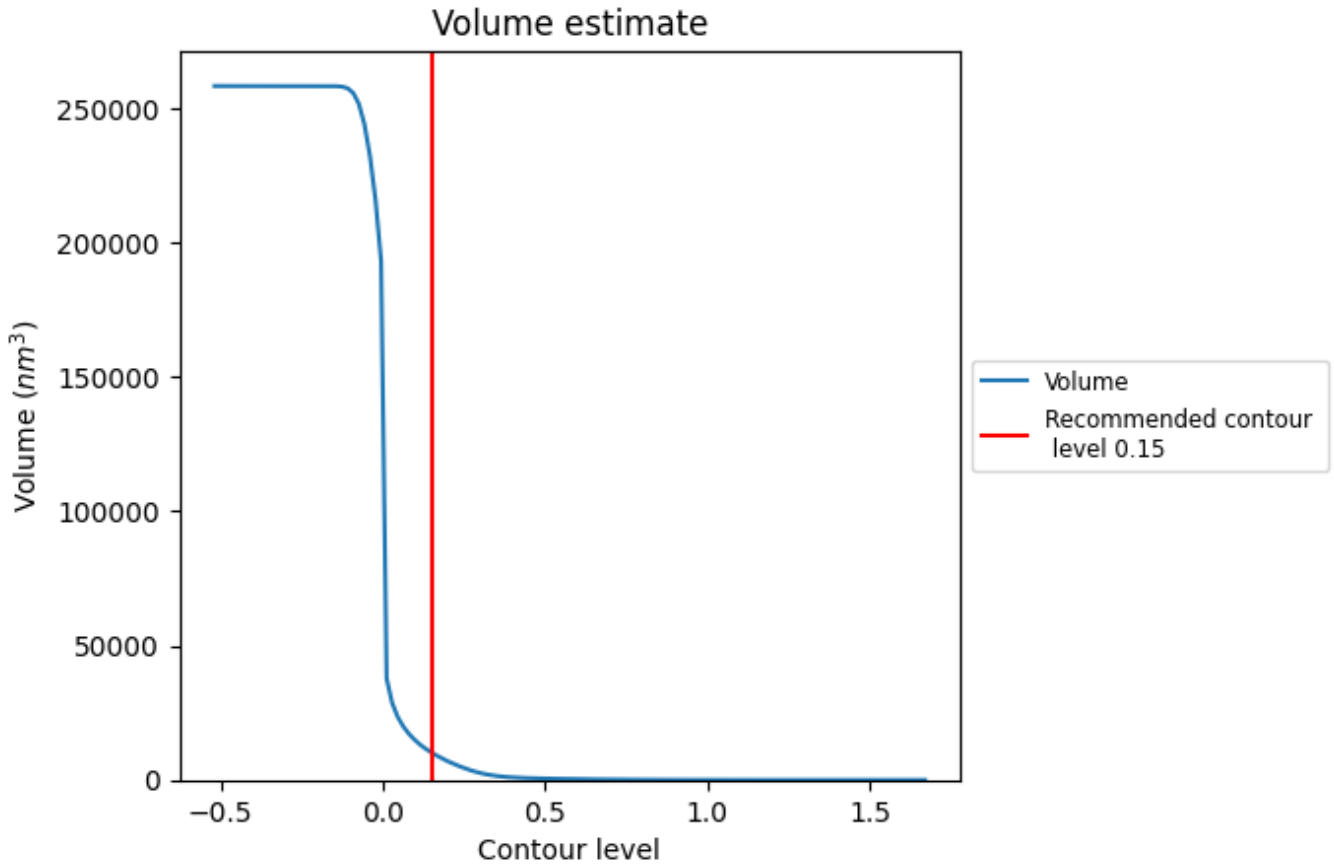
This section contains the results of statistical analysis of the map.

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.

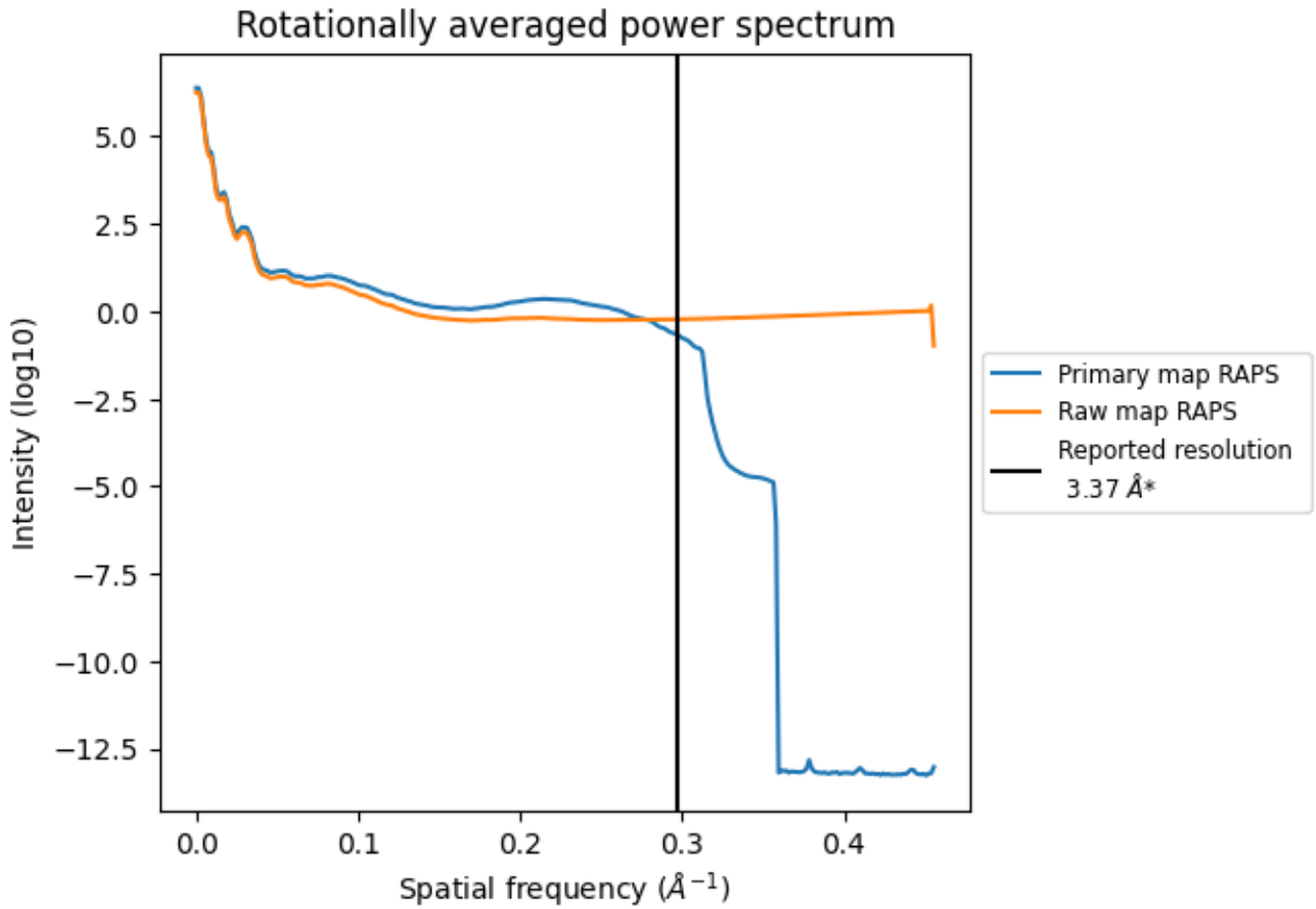
7.2 Volume estimate



The volume at the recommended contour level is 10190 nm^3; this corresponds to an approximate mass of 9205 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)

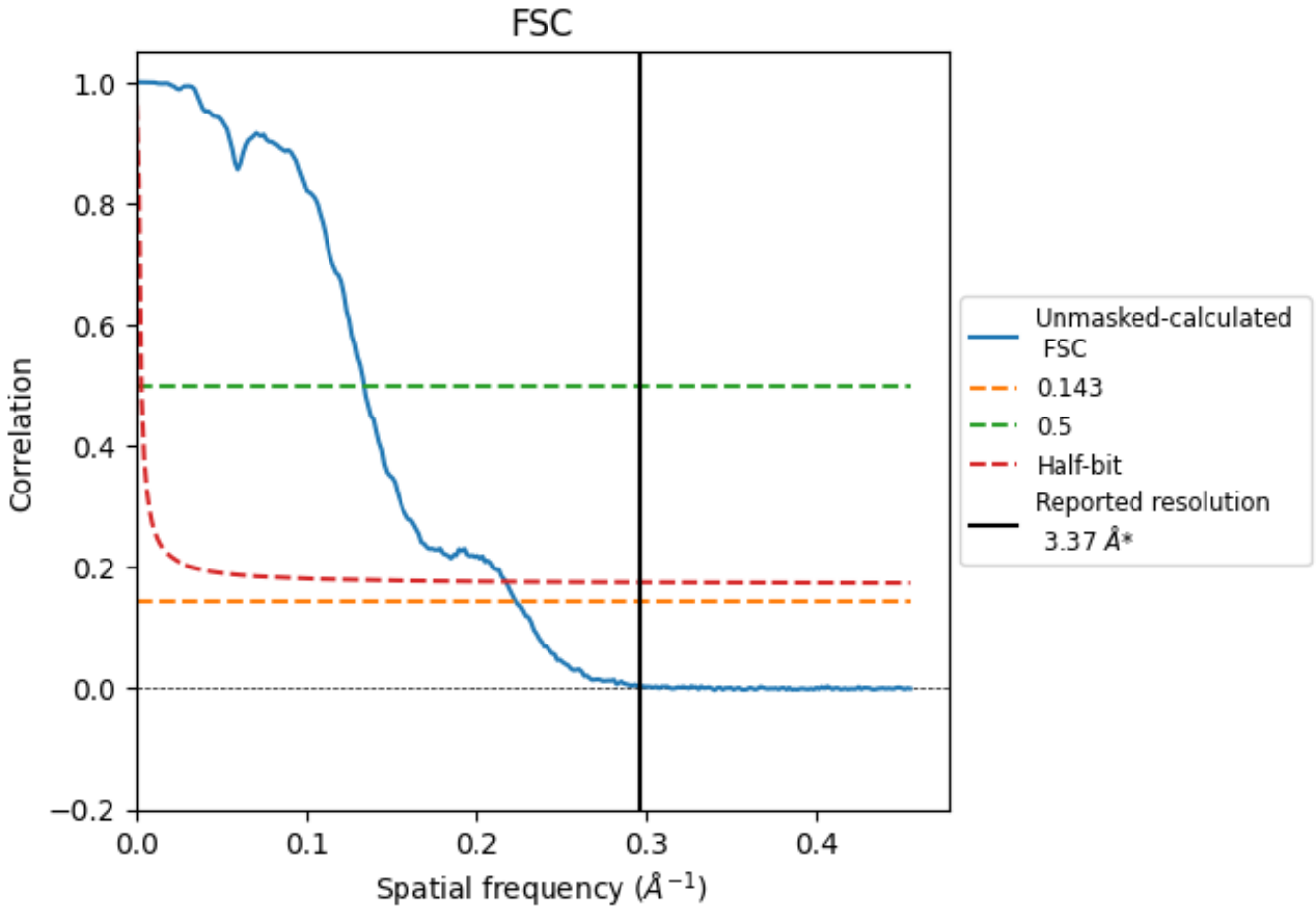


*Reported resolution corresponds to spatial frequency of 0.297 $Å^{-1}$

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 0.297 Å^{-1}

8.2 Resolution estimates (i)

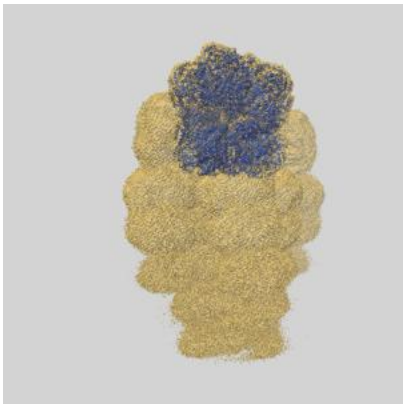
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.37	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	4.47	7.46	4.60

*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 4.47 differs from the reported value 3.37 by more than 10 %

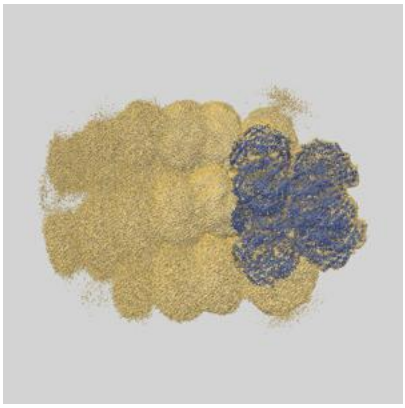
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-63604 and PDB model 9M3J. Per-residue inclusion information can be found in section 3 on page 18.

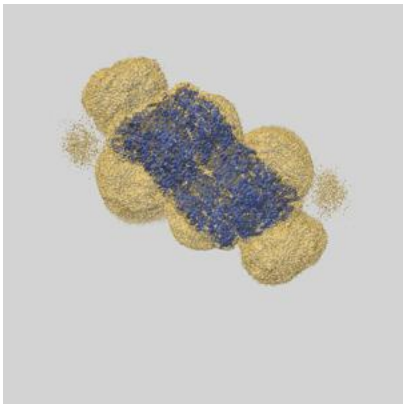
9.1 Map-model overlay



X



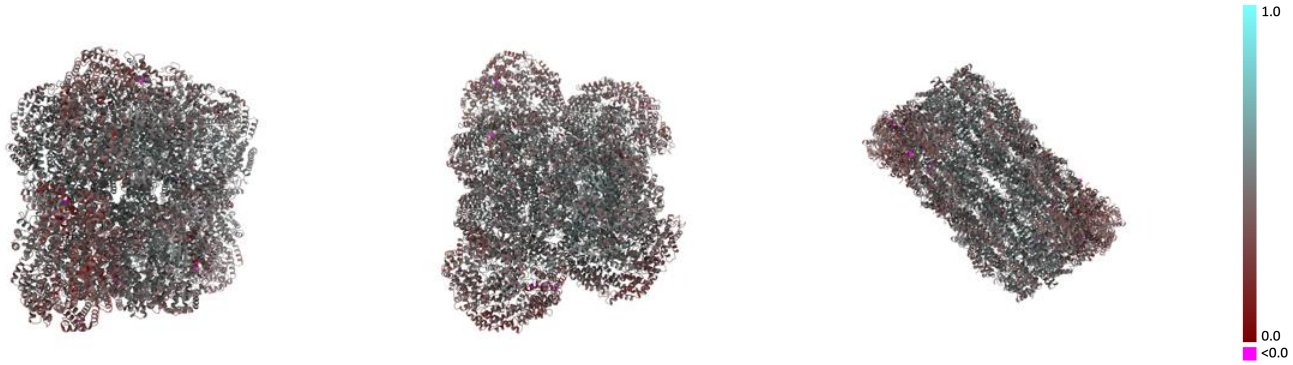
Y



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.

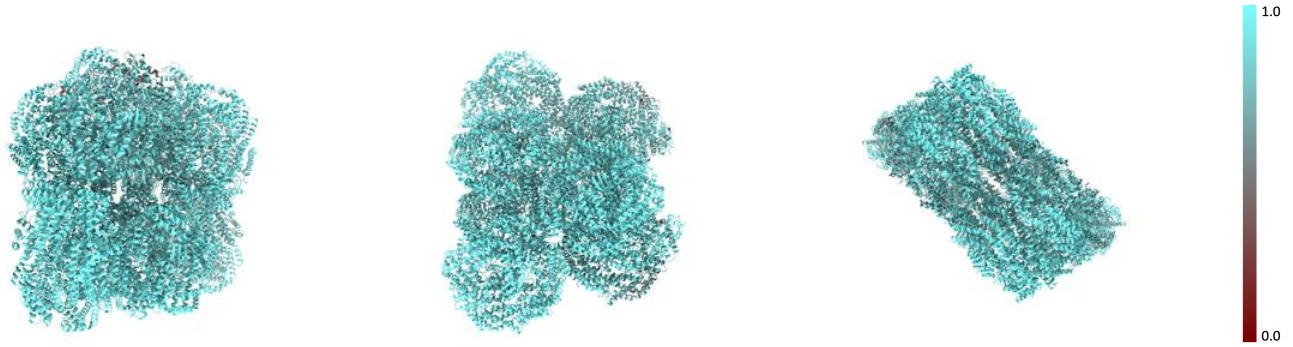
9.2 Q-score mapped to coordinate model



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.

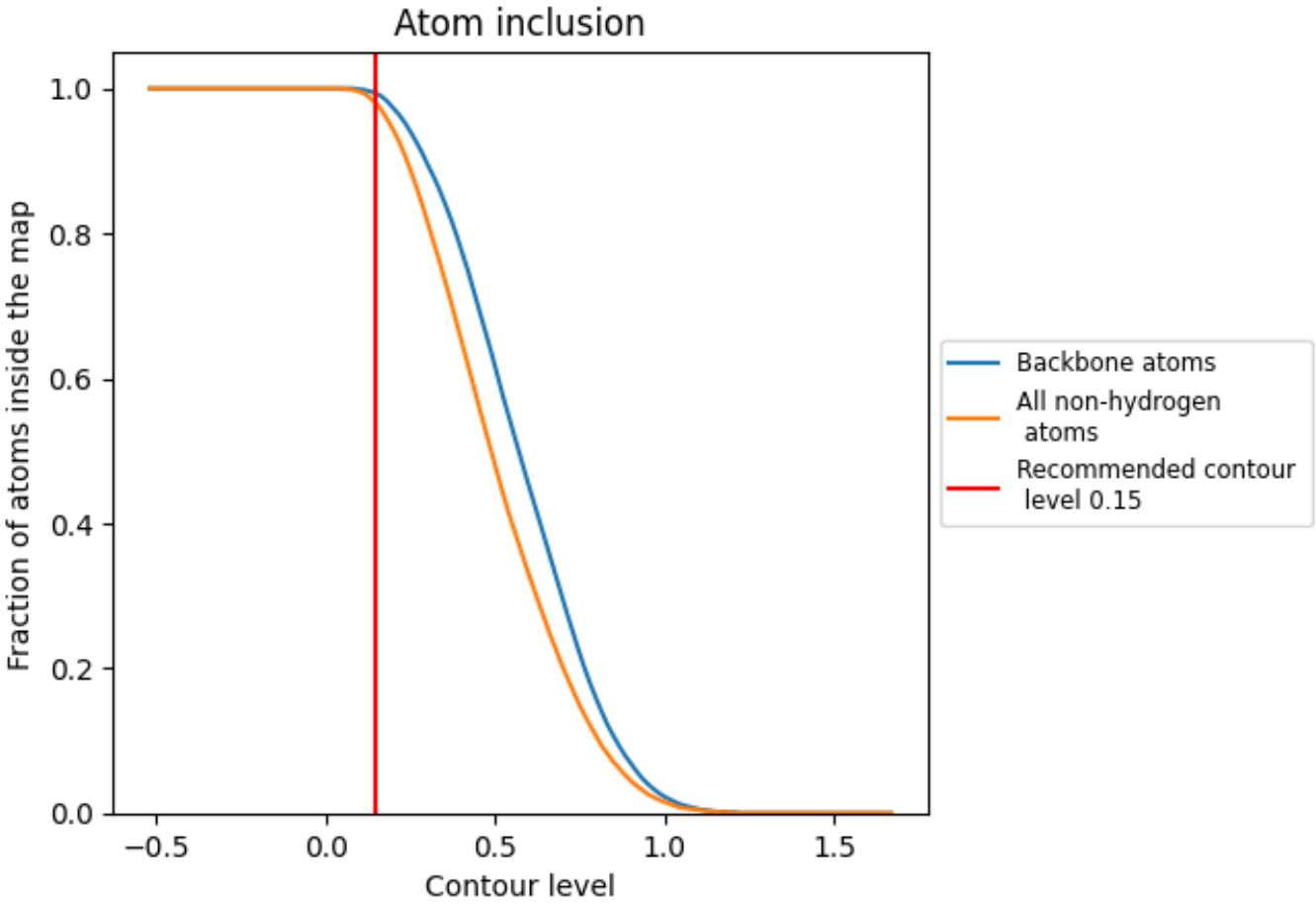
9.3 Atom inclusion mapped to coordinate model



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, 99% of all backbone atoms, 98% 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	0.9790	0.4460
A1	0.8970	0.4600
A2	0.9900	0.4460
A3	0.9970	0.4750
B1	0.8710	0.4130
B2	0.9960	0.4640
B3	0.9990	0.4720
C1	0.8360	0.3640
C2	0.9950	0.4550
C3	0.9980	0.4520
D1	0.7600	0.3450
D2	0.9990	0.5280
D3	0.9980	0.4510
E1	0.8860	0.4620
E2	0.9990	0.5100
E3	0.9980	0.4530
F1	0.8490	0.4450
F2	0.9970	0.5010
F3	0.9920	0.4680
G1	0.8710	0.4140
G2	0.9920	0.4470
G3	0.9940	0.4600
H1	0.8170	0.3600
H2	0.9940	0.4630
H3	0.9980	0.4670
I1	0.7590	0.3510
I2	0.9940	0.4580
I3	0.9940	0.4500
J1	0.8360	0.4350
J2	1.0000	0.5220
J3	0.9970	0.4510
K1	0.8350	0.4230
K2	0.9980	0.5130
K3	0.9980	0.4510
L1	0.8320	0.4160

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Chain	Atom inclusion	Q-score
L2	0.9960	0.4990
L3	0.9970	0.4710
M1	0.9420	0.4670
M2	0.9980	0.4200
M3	0.9970	0.5030
N2	0.9940	0.4370
N3	0.9980	0.5290
O2	0.9980	0.4150
O3	0.9990	0.4820
P2	0.9980	0.4210
P3	0.9990	0.4960
Q2	0.9900	0.4200
Q3	0.9980	0.4520
R2	0.9970	0.4090
R3	0.9960	0.5100
S2	0.9980	0.4090
S3	0.9950	0.5040
T2	0.9970	0.4260
T3	0.9960	0.5310
U2	0.9910	0.3970
U3	0.9980	0.4880
V2	0.9970	0.4180
V3	0.9980	0.5020
W2	0.9900	0.4240
W3	0.9960	0.4520
X2	0.9960	0.4060
X3	0.9980	0.5150
Y2	0.9950	0.3260
Y3	0.9970	0.4410
Z2	0.9970	0.3640
Z3	0.9950	0.5240
a2	0.9980	0.3960
a3	0.9990	0.5050
b2	1.0000	0.4400
b3	0.9940	0.4480
c2	0.9900	0.3530
c3	0.9960	0.4450
d2	0.9980	0.3690
d3	0.9950	0.5230
e2	0.9970	0.3220
e3	0.9990	0.5070
f2	0.9980	0.3570

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Chain	Atom inclusion	Q-score
f3	0.9960	0.4540
g2	0.9970	0.4010
g3	0.9980	0.4960
h2	0.9980	0.4370
h3	0.9950	0.4940
i2	0.9920	0.3570
i3	0.9980	0.5120
j2	0.9970	0.3640
j3	0.9950	0.4800
k2	0.9970	0.3790
k3	0.9950	0.4810
l2	0.9970	0.3560
m2	0.9980	0.3520
n2	0.9950	0.4210
o2	0.9970	0.4670
p2	0.9910	0.4070
q2	0.9940	0.3440
r2	0.9920	0.3560
s2	0.9970	0.3580
t2	0.9950	0.4220
u2	0.9980	0.4730
v2	0.9920	0.3970
w2	1.0000	0.4980
x2	1.0000	0.4430
y2	0.9980	0.4450
z1	0.9340	0.4710
z2	1.0000	0.5010
z3	0.9980	0.5060