



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 29, 2026 – 04:29 pm BST

PDB ID : 5COD / pdb_00005cod
Title : Bovine heart complex I membrane domain
Authors : Zhu, J.; Hirst, J.; King, M.S.; Yu, M.; Leslie, A.G.W.; Klipcan, L.
Deposited on : 2015-07-20
Resolution : 6.74 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

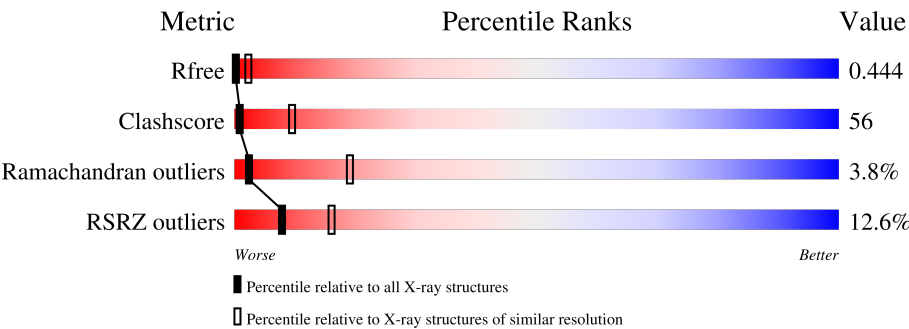
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 6.74 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	180053	1163 (9.44-4.00)
Clashscore	190562	1003 (9.44-4.04)
Ramachandran outliers	187476	1050 (9.00-4.00)
RSRZ outliers	180081	1156 (9.44-4.00)

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

Mol	Chain	Length	Quality of chain
1	L1	606	9% 37% 34% 10% 19%
1	L2	606	9% 36% 35% 10% 19%
1	L3	606	9% 37% 35% 10% 19%
1	L4	606	9% 37% 34% 10% 19%
1	L5	606	13% 36% 35% 10% 19%
1	L6	606	10% 37% 34% 10% 19%
2	M1	459	12% 43% 43% 9% .

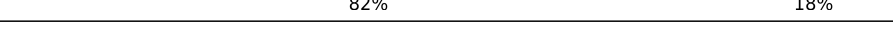
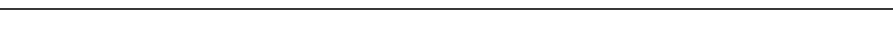
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Mol	Chain	Length	Quality of chain
2	M2	459	
2	M3	459	
2	M4	459	
2	M5	459	
2	M6	459	
3	f1	30	
3	f2	30	
3	f3	30	
3	f4	30	
3	f5	30	
3	f6	30	
3	h1	30	
3	h2	30	
3	h3	30	
3	h4	30	
3	h5	30	
3	h6	30	
3	i1	30	
3	i2	30	
3	i3	30	
3	i4	30	
3	i5	30	
3	i6	30	
4	g1	22	
4	g2	22	

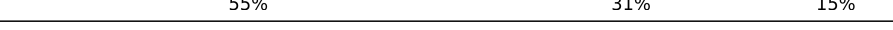
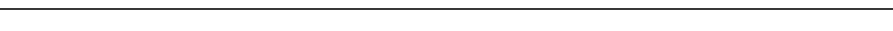
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Mol	Chain	Length	Quality of chain
4	g3	22	 55% 45%
4	g4	22	 45% 55%
4	g5	22	 45% 55%
4	g6	22	 55% 45%
5	j1	28	 68% 32%
5	j2	28	 68% 32%
5	j3	28	 68% 32%
5	j4	28	 68% 32%
5	j5	28	 68% 32%
5	j6	28	 68% 32%
5	k1	28	 82% 18%
5	k2	28	 82% 18%
5	k3	28	 82% 18%
5	k4	28	 82% 18%
5	k5	28	 82% 18%
5	k6	28	 82% 18%
5	p1	28	 79% 21%
5	p2	28	 79% 21%
5	p3	28	 79% 21%
5	p4	28	 79% 21%
5	p5	28	 79% 21%
5	p6	28	 79% 21%
5	s1	28	 61% 39%
5	s2	28	 61% 39%
5	s3	28	 57% 43%

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Mol	Chain	Length	Quality of chain
5	s4	28	 57% 43%
5	s5	28	 57% 43%
5	s6	28	 61% 39%
6	l1	13	 54% 46%
6	l2	13	 54% 46%
6	l3	13	 54% 46%
6	l4	13	 54% 46%
6	l5	13	 54% 46%
6	l6	13	 69% 31%
7	U1	88	 55% 31% 15%
7	U2	88	 57% 28% 15%
7	U3	88	 55% 31% 15%
7	U4	88	 57% 28% 15%
7	U5	88	 55% 31% 15%
7	U6	88	 57% 28% 15%
8	n1	59	 56% 44%
8	n2	59	 56% 44%
8	n3	59	 56% 44%
8	n4	59	 53% 47%
8	n5	59	 53% 47%
8	n6	59	 58% 42%
9	o1	21	 100%
9	o2	21	 100%
9	o3	21	 100%
9	o4	21	 100%

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Mol	Chain	Length	Quality of chain
9	o5	21	 100%
9	o6	21	 100%
10	t1	57	 54% 46%
10	t2	57	 56% 44%
10	t3	57	 53% 47%
10	t4	57	 54% 46%
10	t5	57	 56% 44%
10	t6	57	 56% 44%
11	u1	15	 67% 33%
11	u2	15	 80% 20%
11	u3	15	 67% 33%
11	u4	15	 67% 33%
11	u5	15	 67% 33%
11	u6	15	 67% 33%
12	v1	32	 53% 47%
12	v2	32	 53% 47%
12	v3	32	 53% 47%
12	v4	32	 53% 47%
12	v5	32	 53% 47%
12	v6	32	 53% 47%
13	w1	27	 74% 26%
13	w2	27	 74% 26%
13	w3	27	 74% 26%
13	w4	27	 74% 26%
13	w5	27	 74% 26%

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Mol	Chain	Length	Quality of chain
13	w6	27	 74%26%
14	BA	146	 85%14%.
14	BB	146	 86%13%.
14	BC	146	 84%15%.
14	BD	146	 84%15%.
14	BE	146	 83%16%.
14	BF	146	 86%14%.

2 Entry composition

There are 14 unique types of molecules in this entry. The entry contains 47784 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called NADH-ubiquinone oxidoreductase chain 5.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
1	L1	493	Total	C	N	O	0	0	0
			2440	1454	493	493			
1	L2	493	Total	C	N	O	0	0	0
			2440	1454	493	493			
1	L3	493	Total	C	N	O	0	0	0
			2440	1454	493	493			
1	L4	493	Total	C	N	O	0	0	0
			2440	1454	493	493			
1	L5	493	Total	C	N	O	0	0	0
			2440	1454	493	493			
1	L6	493	Total	C	N	O	0	0	0
			2440	1454	493	493			

- Molecule 2 is a protein called NADH-ubiquinone oxidoreductase chain 4.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	M1	439	Total	C	N	O	0	0	0
			2179	1301	439	439			
2	M2	439	Total	C	N	O	0	0	0
			2179	1301	439	439			
2	M3	439	Total	C	N	O	0	0	0
			2179	1301	439	439			
2	M4	439	Total	C	N	O	0	0	0
			2179	1301	439	439			
2	M5	439	Total	C	N	O	0	0	0
			2179	1301	439	439			
2	M6	439	Total	C	N	O	0	0	0
			2179	1301	439	439			

- Molecule 3 is a protein called Unknown structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	f1	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	h1	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	i1	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	f2	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	h2	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	i2	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	f3	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	h3	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	i3	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	f4	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	h4	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	i4	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	f5	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	h5	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	i5	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	f6	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	h6	30	Total	C	N	O	0	0	0
			150	90	30	30			
3	i6	30	Total	C	N	O	0	0	0
			150	90	30	30			

- Molecule 4 is a protein called Unknown structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	g1	22	Total	C	N	O	0	0	0
			110	66	22	22			
4	g2	22	Total	C	N	O	0	0	0
			110	66	22	22			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	g3	22	Total	C	N	O	0	0	0
			110	66	22	22			
4	g4	22	Total	C	N	O	0	0	0
			110	66	22	22			
4	g5	22	Total	C	N	O	0	0	0
			110	66	22	22			
4	g6	22	Total	C	N	O	0	0	0
			110	66	22	22			

- Molecule 5 is a protein called Unknown structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	j1	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	k1	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	p1	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	s1	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	j2	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	k2	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	p2	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	s2	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	j3	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	k3	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	p3	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	s3	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	j4	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	k4	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	p4	28	Total	C	N	O	0	0	0
			140	84	28	28			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	s4	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	j5	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	k5	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	p5	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	s5	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	j6	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	k6	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	p6	28	Total	C	N	O	0	0	0
			140	84	28	28			
5	s6	28	Total	C	N	O	0	0	0
			140	84	28	28			

- Molecule 6 is a protein called Unknown structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
6	l1	13	Total	C	N	O	0	0	0
			65	39	13	13			
6	l2	13	Total	C	N	O	0	0	0
			65	39	13	13			
6	l3	13	Total	C	N	O	0	0	0
			65	39	13	13			
6	l4	13	Total	C	N	O	0	0	0
			65	39	13	13			
6	l5	13	Total	C	N	O	0	0	0
			65	39	13	13			
6	l6	13	Total	C	N	O	0	0	0
			65	39	13	13			

- Molecule 7 is a protein called SDAP.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
7	U1	75	Total	C	N	O	0	0	0
			375	225	75	75			
7	U2	75	Total	C	N	O	0	0	0
			375	225	75	75			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
7	U3	75	Total	C	N	O	0	0	0
			375	225	75	75			
7	U4	75	Total	C	N	O	0	0	0
			375	225	75	75			
7	U5	75	Total	C	N	O	0	0	0
			375	225	75	75			
7	U6	75	Total	C	N	O	0	0	0
			375	225	75	75			

- Molecule 8 is a protein called Unknown structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
8	n1	59	Total	C	N	O	0	0	0
			295	177	59	59			
8	n2	59	Total	C	N	O	0	0	0
			295	177	59	59			
8	n3	59	Total	C	N	O	0	0	0
			295	177	59	59			
8	n4	59	Total	C	N	O	0	0	0
			295	177	59	59			
8	n5	59	Total	C	N	O	0	0	0
			295	177	59	59			
8	n6	59	Total	C	N	O	0	0	0
			295	177	59	59			

- Molecule 9 is a protein called Unknown structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	o1	21	Total	C	N	O	0	0	0
			105	63	21	21			
9	o2	21	Total	C	N	O	0	0	0
			105	63	21	21			
9	o3	21	Total	C	N	O	0	0	0
			105	63	21	21			
9	o4	21	Total	C	N	O	0	0	0
			105	63	21	21			
9	o5	21	Total	C	N	O	0	0	0
			105	63	21	21			
9	o6	21	Total	C	N	O	0	0	0
			105	63	21	21			

- Molecule 10 is a protein called Unknown structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	t1	57	Total	C	N	O	0	0	0
			285	171	57	57			
10	t2	57	Total	C	N	O	0	0	0
			285	171	57	57			
10	t3	57	Total	C	N	O	0	0	0
			285	171	57	57			
10	t4	57	Total	C	N	O	0	0	0
			285	171	57	57			
10	t5	57	Total	C	N	O	0	0	0
			285	171	57	57			
10	t6	57	Total	C	N	O	0	0	0
			285	171	57	57			

- Molecule 11 is a protein called Unknown structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
11	u1	15	Total	C	N	O	0	0	0
			75	45	15	15			
11	u2	15	Total	C	N	O	0	0	0
			75	45	15	15			
11	u3	15	Total	C	N	O	0	0	0
			75	45	15	15			
11	u4	15	Total	C	N	O	0	0	0
			75	45	15	15			
11	u5	15	Total	C	N	O	0	0	0
			75	45	15	15			
11	u6	15	Total	C	N	O	0	0	0
			75	45	15	15			

- Molecule 12 is a protein called Unknown structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
12	v1	32	Total	C	N	O	0	0	0
			160	96	32	32			
12	v2	32	Total	C	N	O	0	0	0
			160	96	32	32			
12	v3	32	Total	C	N	O	0	0	0
			160	96	32	32			
12	v4	32	Total	C	N	O	0	0	0
			160	96	32	32			
12	v5	32	Total	C	N	O	0	0	0
			160	96	32	32			
12	v6	32	Total	C	N	O	0	0	0
			160	96	32	32			

- Molecule 13 is a protein called Unknown structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
13	w1	27	Total	C	N	O	0	0	0
			135	81	27	27			
13	w2	27	Total	C	N	O	0	0	0
			135	81	27	27			
13	w3	27	Total	C	N	O	0	0	0
			135	81	27	27			
13	w4	27	Total	C	N	O	0	0	0
			135	81	27	27			
13	w5	27	Total	C	N	O	0	0	0
			135	81	27	27			
13	w6	27	Total	C	N	O	0	0	0
			135	81	27	27			

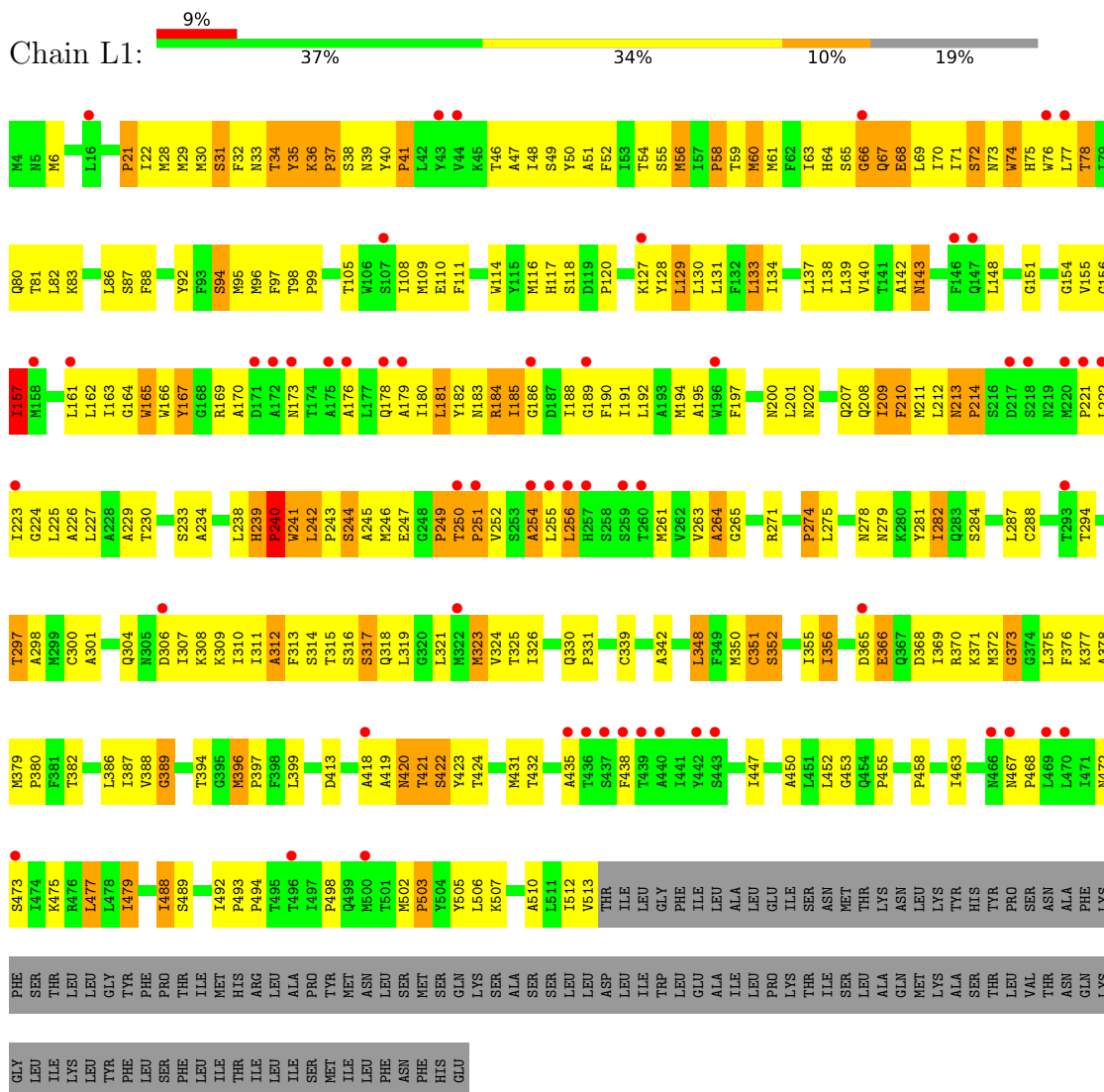
- Molecule 14 is a protein called Unknown structure.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	BA	146	Total	C	N	O	0	0	0
			730	438	146	146			
14	BB	146	Total	C	N	O	0	0	0
			730	438	146	146			
14	BC	146	Total	C	N	O	0	0	0
			730	438	146	146			
14	BD	146	Total	C	N	O	0	0	0
			730	438	146	146			
14	BE	146	Total	C	N	O	0	0	0
			730	438	146	146			
14	BF	146	Total	C	N	O	0	0	0
			730	438	146	146			

3 Residue-property plots

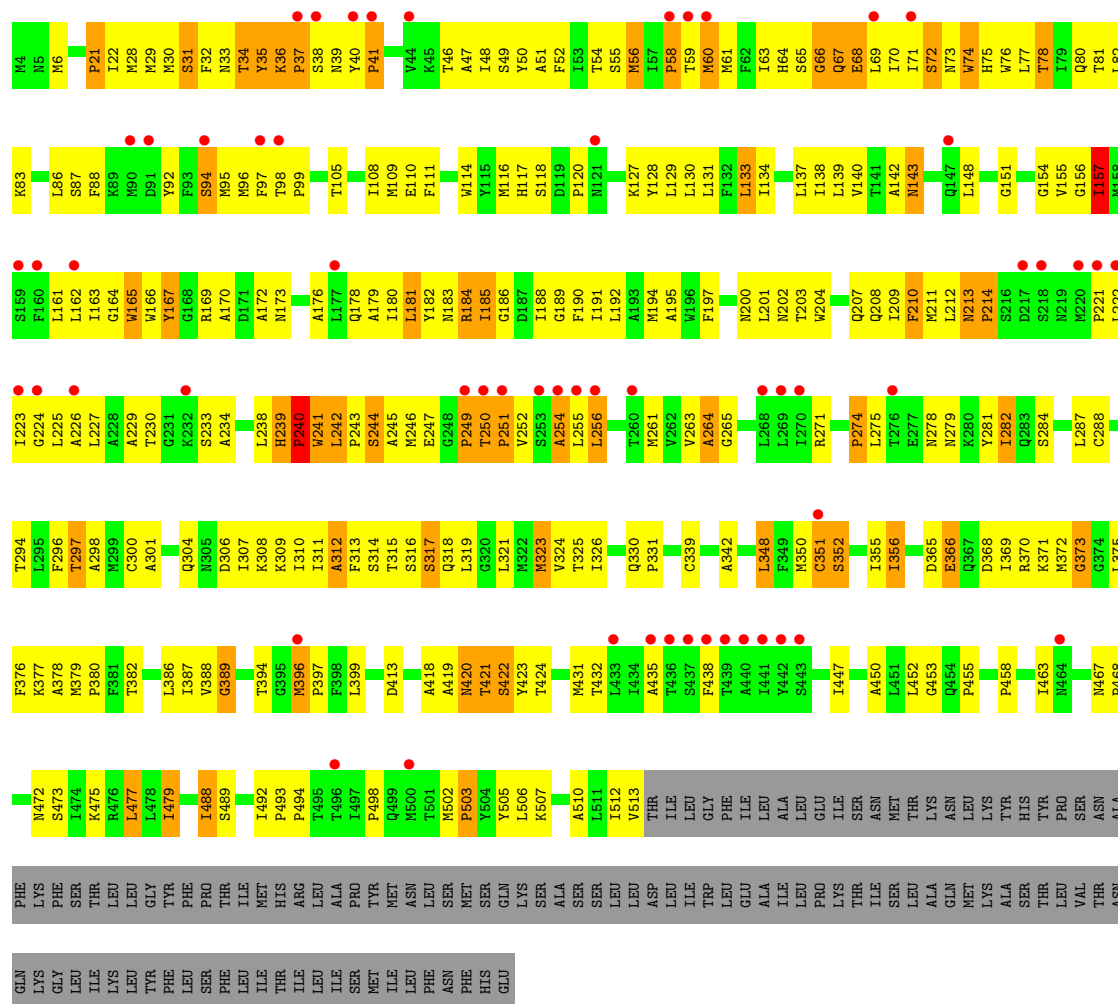
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: NADH-ubiquinone oxidoreductase chain 5

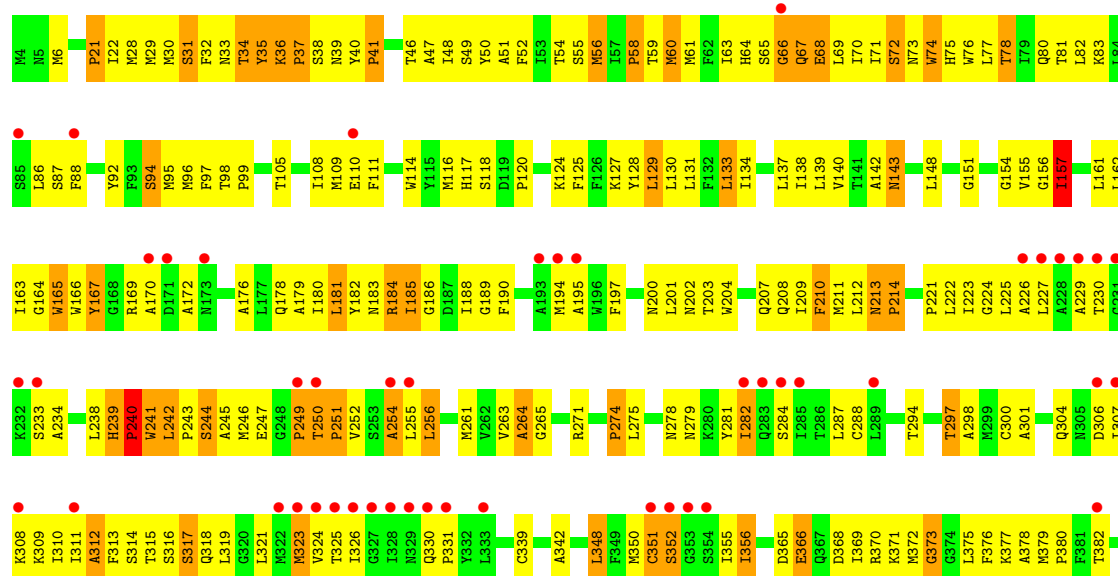


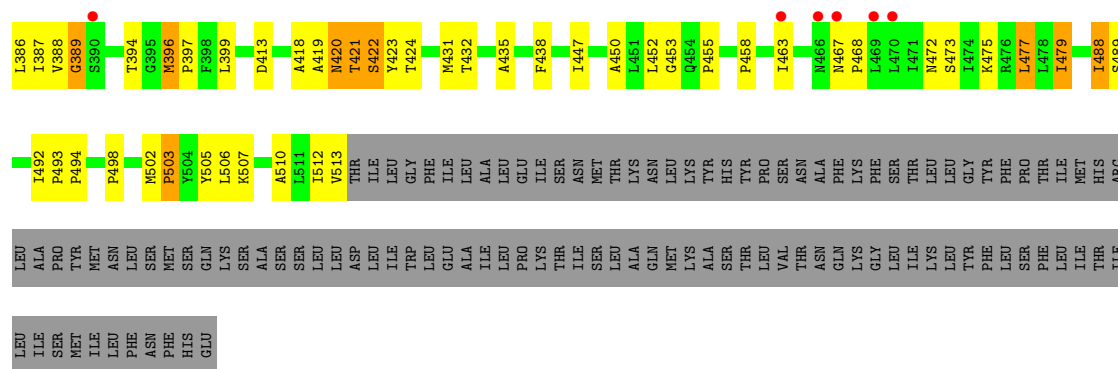
- Molecule 1: NADH-ubiquinone oxidoreductase chain 5



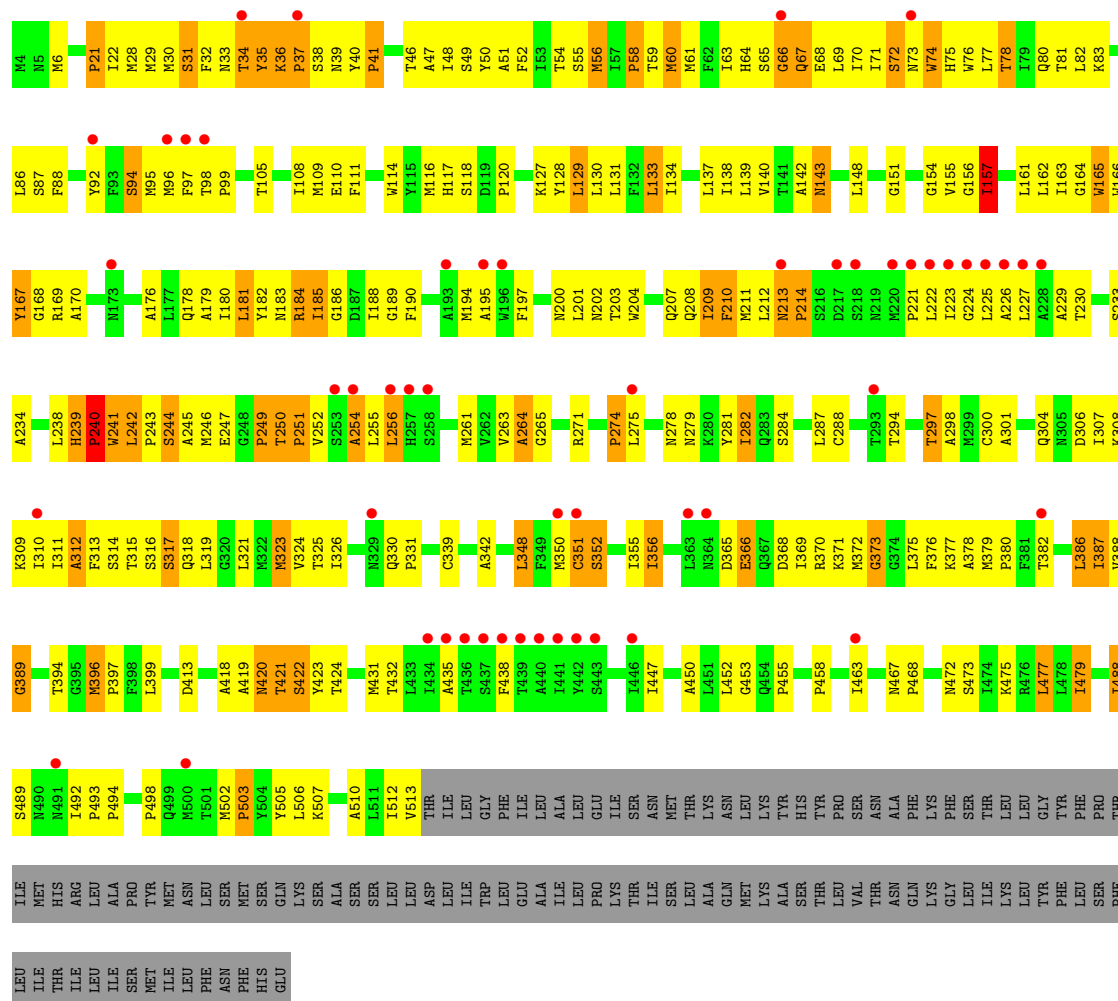


• Molecule 1: NADH-ubiquinone oxidoreductase chain 5





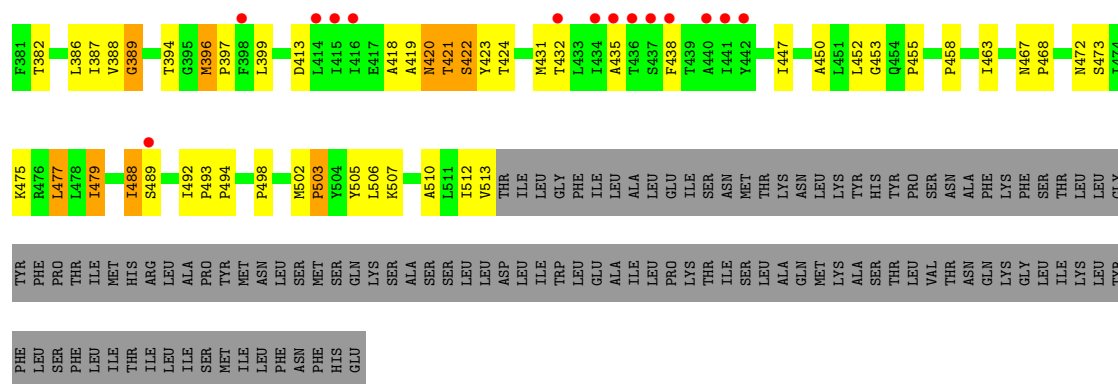
● Molecule 1: NADH-ubiquinone oxidoreductase chain 5



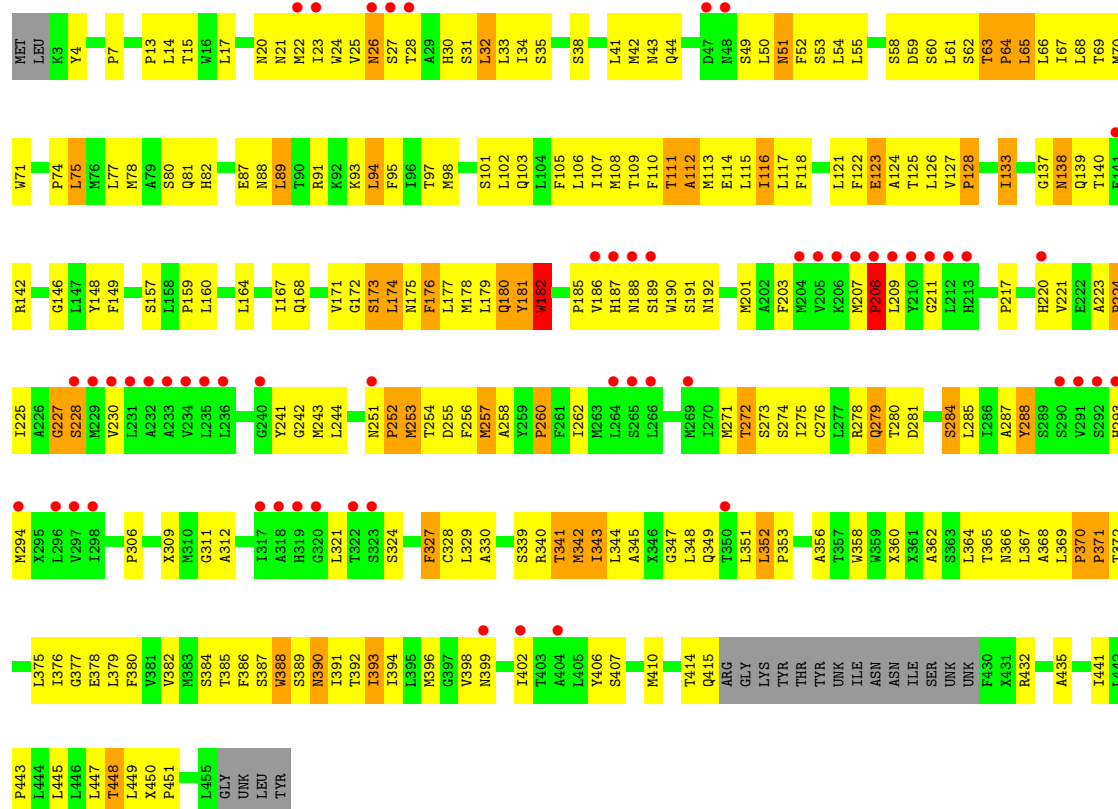
● Molecule 1: NADH-ubiquinone oxidoreductase chain 5



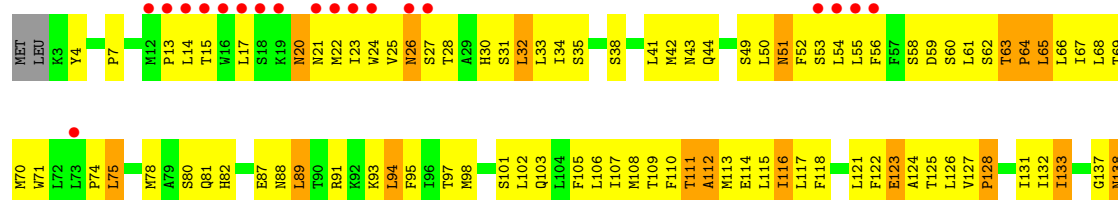
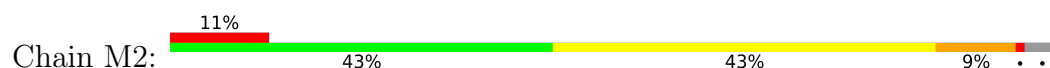


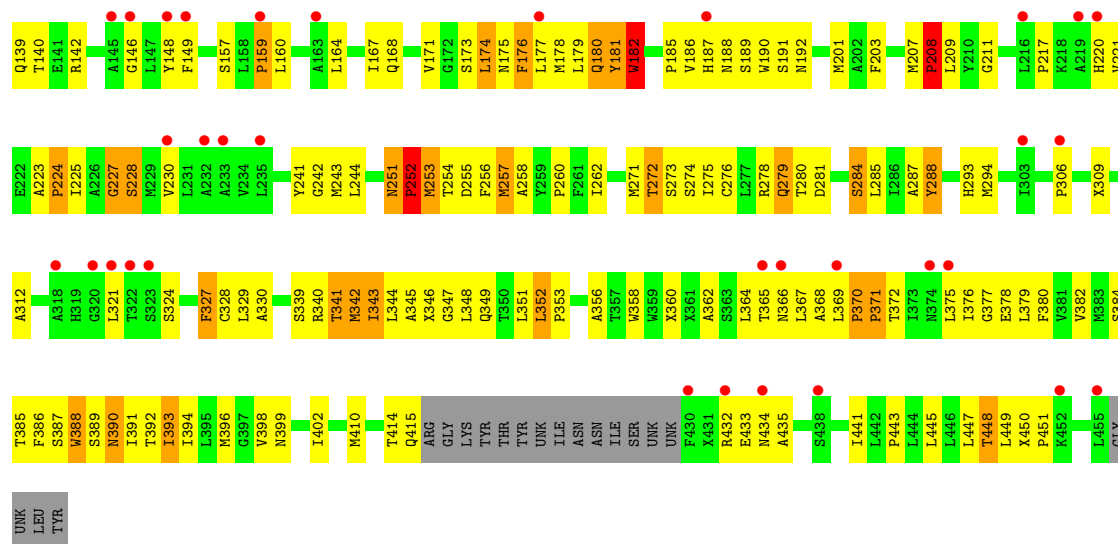


• Molecule 2: NADH-ubiquinone oxidoreductase chain 4

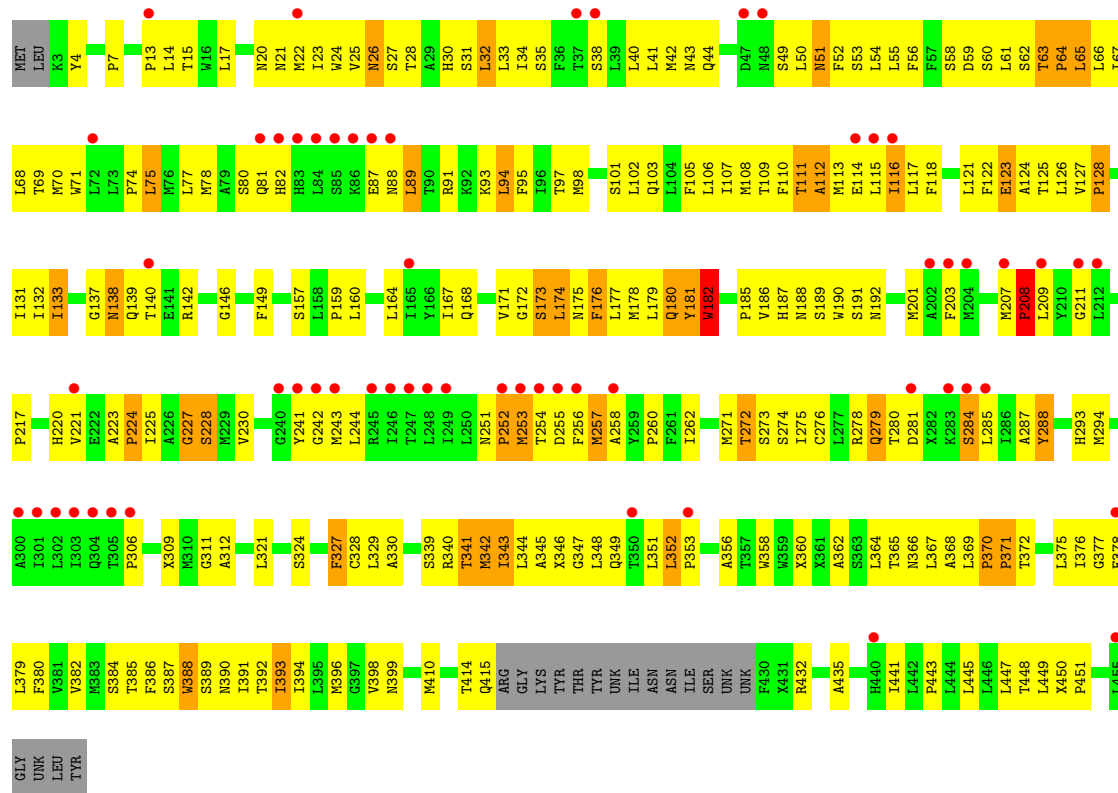
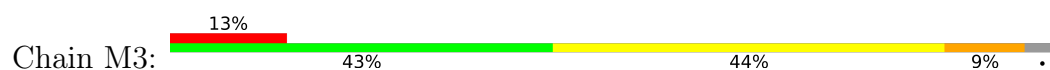


• Molecule 2: NADH-ubiquinone oxidoreductase chain 4



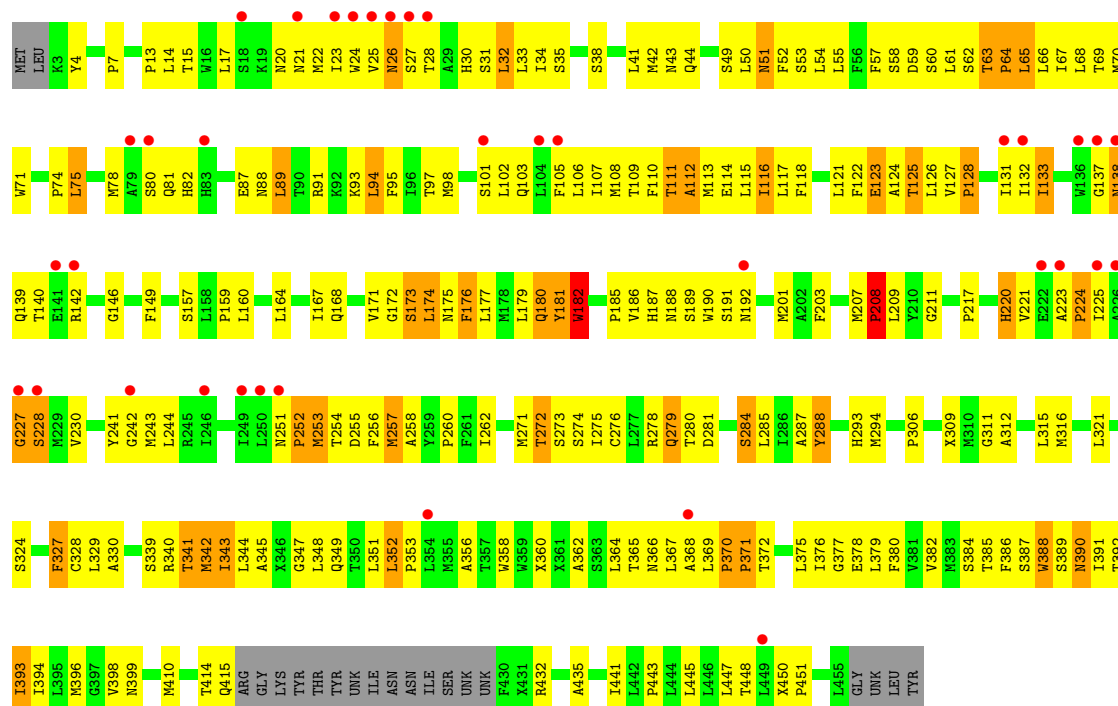


• Molecule 2: NADH-ubiquinone oxidoreductase chain 4

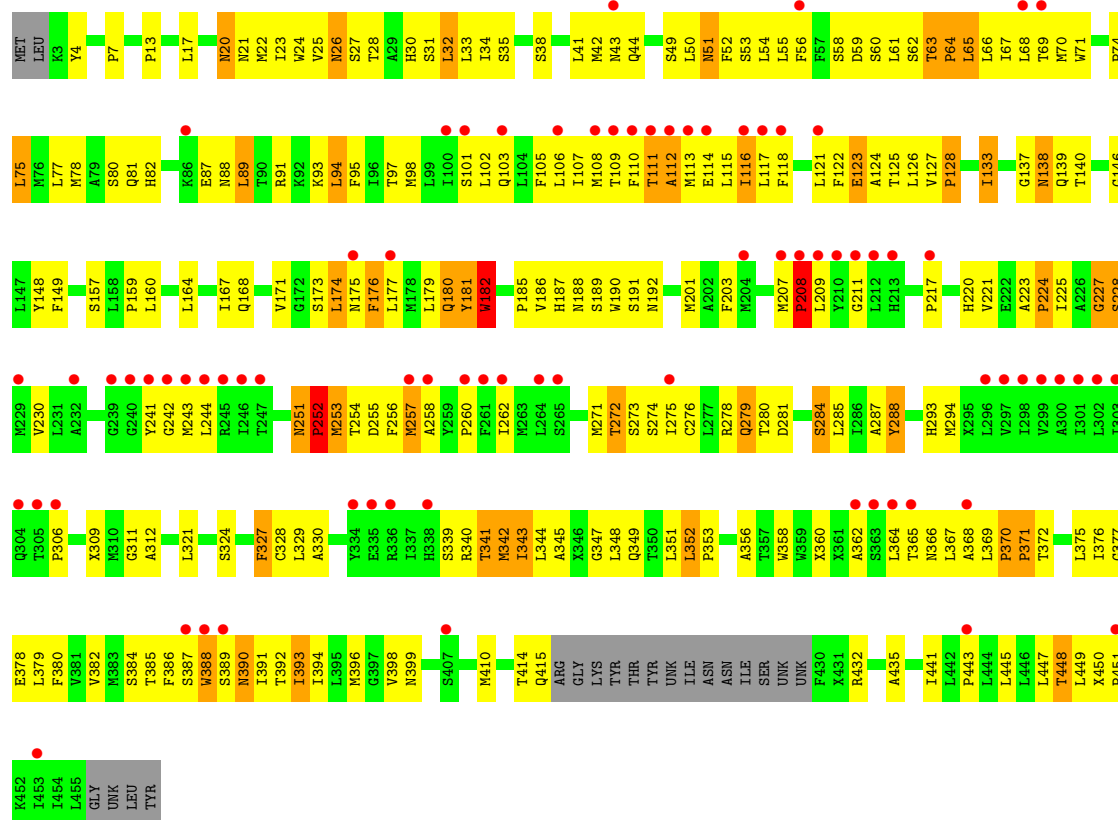


• Molecule 2: NADH-ubiquinone oxidoreductase chain 4





• Molecule 2: NADH-ubiquinone oxidoreductase chain 4



• Molecule 2: NADH-ubiquinone oxidoreductase chain 4



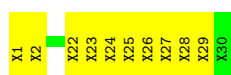
- Molecule 3: Unknown structure

Chain h2:  83% 17%



- Molecule 3: Unknown structure

Chain i2:  67% 33%



- Molecule 3: Unknown structure

Chain f3:  70% 30%



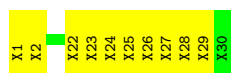
- Molecule 3: Unknown structure

Chain h3:  83% 17%



- Molecule 3: Unknown structure

Chain i3:  67% 33%



- Molecule 3: Unknown structure

Chain f4:  70% 30%



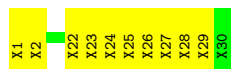
- Molecule 3: Unknown structure

Chain h4:  83% 17%



- Molecule 3: Unknown structure

Chain i4: 67% 33%



- Molecule 3: Unknown structure

Chain f5: 70% 30%



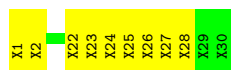
- Molecule 3: Unknown structure

Chain h5: 83% 17%



- Molecule 3: Unknown structure

Chain i5: 70% 30%



- Molecule 3: Unknown structure

Chain f6: 70% 30%



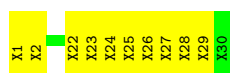
- Molecule 3: Unknown structure

Chain h6: 83% 17%

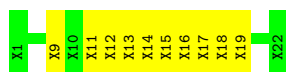


- Molecule 3: Unknown structure

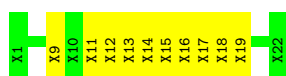
Chain i6: 67% 33%



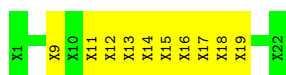
- Molecule 4: Unknown structure



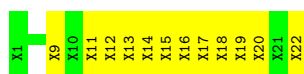
- Molecule 4: Unknown structure



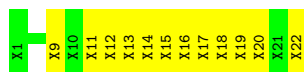
- Molecule 4: Unknown structure



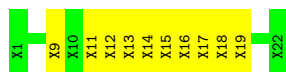
- Molecule 4: Unknown structure



- Molecule 4: Unknown structure



- Molecule 4: Unknown structure

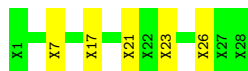
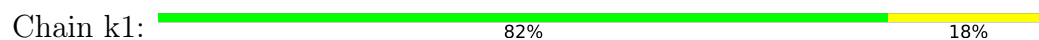


- Molecule 5: Unknown structure

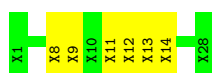
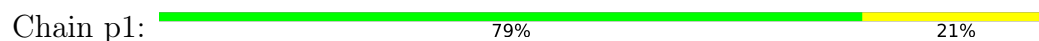




- Molecule 5: Unknown structure



- Molecule 5: Unknown structure



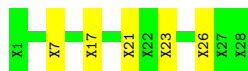
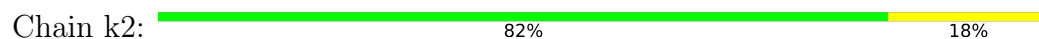
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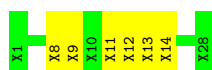
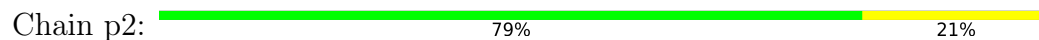
- Molecule 5: Unknown structure



- Molecule 5: Unknown structure



- Molecule 5: Unknown structure



- Molecule 5: Unknown structure

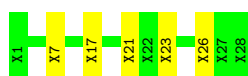
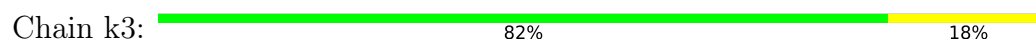




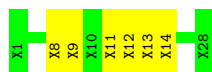
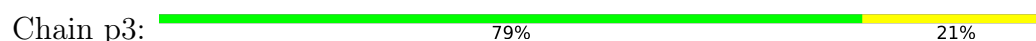
- Molecule 5: Unknown structure



- Molecule 5: Unknown structure



- Molecule 5: Unknown structure



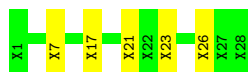
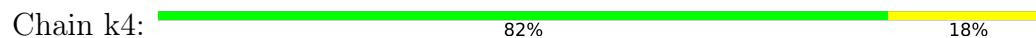
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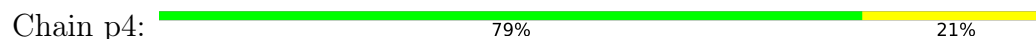
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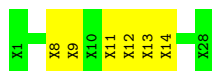


- Molecule 5: Unknown structure



- Molecule 5: Unknown structure





- Molecule 5: Unknown structure

Chain s4: 57% 43%



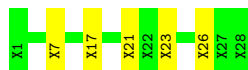
- Molecule 5: Unknown structure

Chain j5: 68% 32%



- Molecule 5: Unknown structure

Chain k5: 82% 18%



- Molecule 5: Unknown structure

Chain p5: 79% 21%



- Molecule 5: Unknown structure

Chain s5: 57% 43%



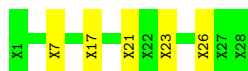
- Molecule 5: Unknown structure

Chain j6: 68% 32%

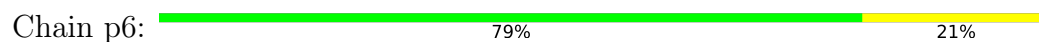


- Molecule 5: Unknown structure

Chain k6: 82% 18%



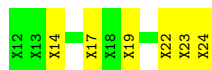
- Molecule 5: Unknown structure



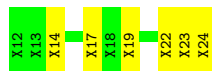
- Molecule 5: Unknown structure



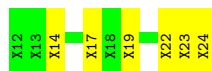
- Molecule 6: Unknown structure



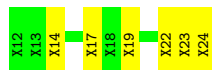
- Molecule 6: Unknown structure



- Molecule 6: Unknown structure

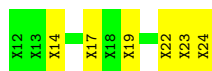


- Molecule 6: Unknown structure

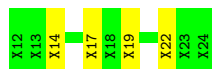


- Molecule 6: Unknown structure

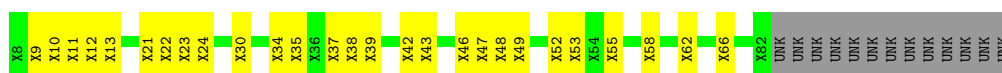




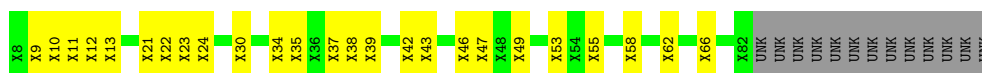
- Molecule 6: Unknown structure



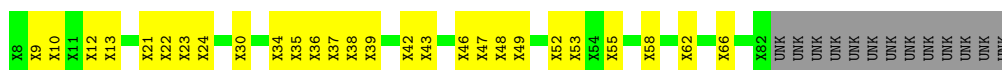
- Molecule 7: SDAP



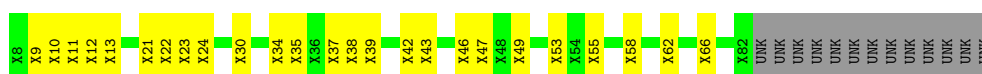
- Molecule 7: SDAP



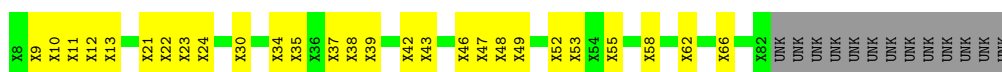
- Molecule 7: SDAP



- Molecule 7: SDAP

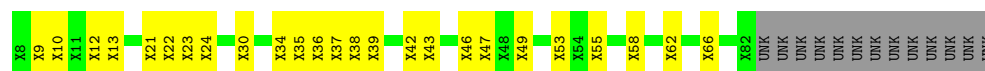


- Molecule 7: SDAP

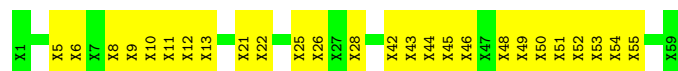


- Molecule 7: SDAP

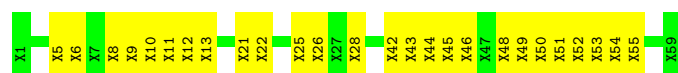




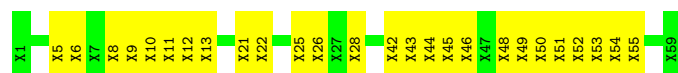
- Molecule 8: Unknown structure



- Molecule 8: Unknown structure



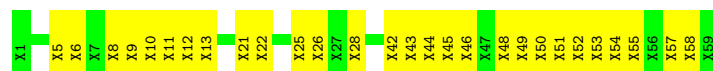
- Molecule 8: Unknown structure



- Molecule 8: Unknown structure



- Molecule 8: Unknown structure



- Molecule 8: Unknown structure



- Molecule 9: Unknown structure



There are no outlier residues recorded for this chain.

- Molecule 9: Unknown structure

Chain o2:  100%

There are no outlier residues recorded for this chain.

- Molecule 9: Unknown structure

Chain o3:  100%

There are no outlier residues recorded for this chain.

- Molecule 9: Unknown structure

Chain o4:  100%

There are no outlier residues recorded for this chain.

- Molecule 9: Unknown structure

Chain o5:  100%

There are no outlier residues recorded for this chain.

- Molecule 9: Unknown structure

Chain o6:  100%

There are no outlier residues recorded for this chain.

- Molecule 10: Unknown structure

Chain t1:  54% 46%



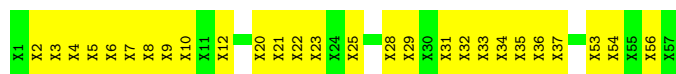
- Molecule 10: Unknown structure

Chain t2:  56% 44%



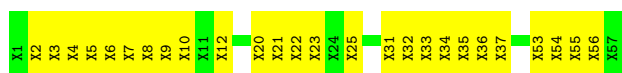
- Molecule 10: Unknown structure

Chain t3:  53% 47%



- Molecule 10: Unknown structure

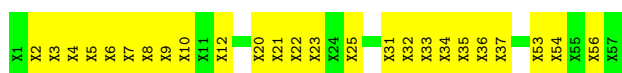
Chain t4:  54% 46%



- Molecule 10: Unknown structure



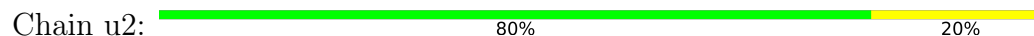
- Molecule 10: Unknown structure



- Molecule 11: Unknown structure



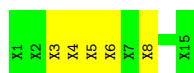
- Molecule 11: Unknown structure



- Molecule 11: Unknown structure



- Molecule 11: Unknown structure



- Molecule 11: Unknown structure





- Molecule 11: Unknown structure



- Molecule 12: Unknown structure



- Molecule 12: Unknown structure



- Molecule 12: Unknown structure



- Molecule 12: Unknown structure



- Molecule 12: Unknown structure

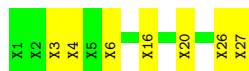
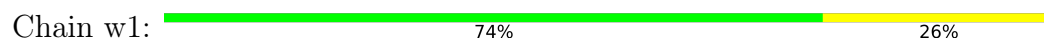


- Molecule 12: Unknown structure

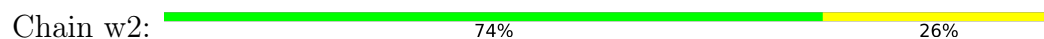




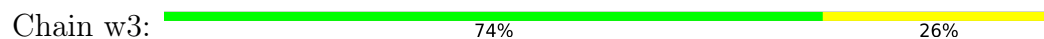
- Molecule 13: Unknown structure



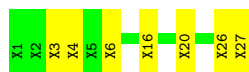
- Molecule 13: Unknown structure



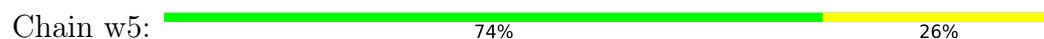
- Molecule 13: Unknown structure



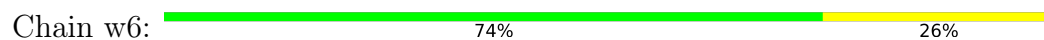
- Molecule 13: Unknown structure



- Molecule 13: Unknown structure

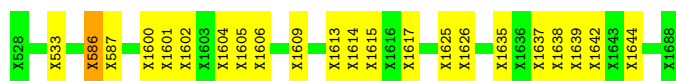


- Molecule 13: Unknown structure

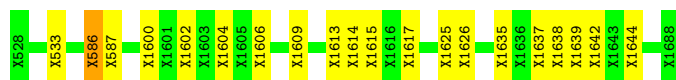
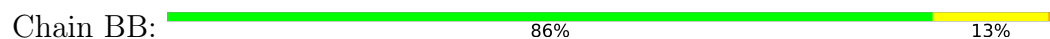


- Molecule 14: Unknown structure

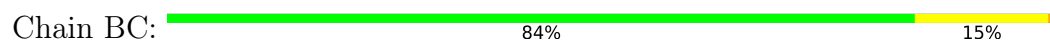




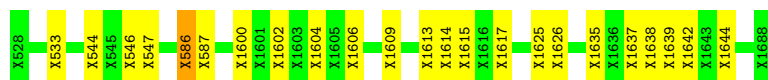
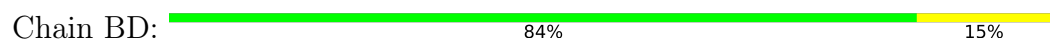
- Molecule 14: Unknown structure



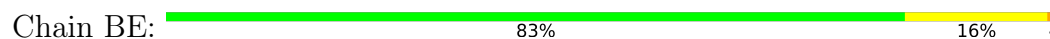
- Molecule 14: Unknown structure



- Molecule 14: Unknown structure



- Molecule 14: Unknown structure



- Molecule 14: Unknown structure



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	244.83Å 251.41Å 412.03Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	41.69 – 6.74 41.69 – 6.74	Depositor EDS
% Data completeness (in resolution range)	97.2 (41.69-6.74) 90.7 (41.69-6.74)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.28 (at 6.68Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.425 , 0.435 0.425 , 0.444	Depositor DCC
R_{free} test set	2228 reflections (4.88%)	wwPDB-VP
Wilson B-factor (Å ²)	495.7	Xtriage
Anisotropy	0.201	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.16 , 832.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.23$	Xtriage
Estimated twinning fraction	0.037 for k,h,-l	Xtriage
F_o, F_c correlation	0.79	EDS
Total number of atoms	47784	wwPDB-VP
Average B, all atoms (Å ²)	100.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.10% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	L1	1.09	5/2435 (0.2%)	1.86	119/3386 (3.5%)
1	L2	1.09	5/2435 (0.2%)	1.86	119/3386 (3.5%)
1	L3	1.09	5/2435 (0.2%)	1.86	119/3386 (3.5%)
1	L4	1.09	5/2435 (0.2%)	1.85	119/3386 (3.5%)
1	L5	1.09	5/2435 (0.2%)	1.85	118/3386 (3.5%)
1	L6	1.09	5/2435 (0.2%)	1.86	118/3386 (3.5%)
2	M1	1.14	0/2124	1.76	80/2948 (2.7%)
2	M2	1.14	0/2124	1.75	78/2948 (2.6%)
2	M3	1.14	0/2124	1.76	77/2948 (2.6%)
2	M4	1.14	0/2124	1.76	78/2948 (2.6%)
2	M5	1.14	0/2124	1.76	79/2948 (2.7%)
2	M6	1.14	0/2124	1.75	78/2948 (2.6%)
All	All	1.11	30/27354 (0.1%)	1.81	1182/38004 (3.1%)

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	L1	0	2
1	L2	0	2
1	L3	0	2
1	L4	0	2
1	L5	0	2
1	L6	0	2
14	BA	0	3
14	BB	0	3
14	BC	0	3
14	BD	0	3
14	BE	0	3
14	BF	0	3
All	All	0	30

All (30) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L4	452	LEU	C-N	17.21	1.56	1.33
1	L5	452	LEU	C-N	17.16	1.56	1.33
1	L3	452	LEU	C-N	17.16	1.56	1.33
1	L2	452	LEU	C-N	17.14	1.56	1.33
1	L1	452	LEU	C-N	17.12	1.56	1.33
1	L6	452	LEU	C-N	17.11	1.56	1.33
1	L5	239	HIS	N-CA	10.04	1.59	1.45
1	L3	239	HIS	N-CA	9.99	1.59	1.45
1	L4	239	HIS	N-CA	9.97	1.59	1.45
1	L2	239	HIS	N-CA	9.96	1.59	1.45
1	L1	239	HIS	N-CA	9.96	1.59	1.45
1	L6	239	HIS	N-CA	9.95	1.59	1.45
1	L3	239	HIS	CA-C	9.57	1.64	1.53
1	L5	239	HIS	CA-C	9.57	1.64	1.53
1	L1	239	HIS	CA-C	9.56	1.64	1.53
1	L4	239	HIS	CA-C	9.54	1.64	1.53
1	L6	239	HIS	CA-C	9.52	1.64	1.53
1	L2	239	HIS	CA-C	9.49	1.64	1.53
1	L3	477	LEU	C-N	5.80	1.43	1.33
1	L2	477	LEU	C-N	5.78	1.43	1.33
1	L4	477	LEU	C-N	5.75	1.42	1.33
1	L1	477	LEU	C-N	5.72	1.42	1.33
1	L5	477	LEU	C-N	5.72	1.42	1.33
1	L6	477	LEU	C-N	5.68	1.42	1.33
1	L5	234	ALA	CA-C	5.19	1.59	1.52
1	L1	234	ALA	CA-C	5.16	1.59	1.52
1	L2	234	ALA	CA-C	5.15	1.59	1.52
1	L6	234	ALA	CA-C	5.08	1.59	1.52
1	L4	234	ALA	CA-C	5.07	1.59	1.52
1	L3	234	ALA	CA-C	5.07	1.59	1.52

All (1182) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M4	182	TRP	N-CA-CB	16.03	137.58	110.49
2	M5	182	TRP	N-CA-CB	16.02	137.56	110.49
2	M6	182	TRP	N-CA-CB	16.00	137.53	110.49
2	M1	182	TRP	N-CA-CB	15.99	137.51	110.49
2	M2	182	TRP	N-CA-CB	15.99	137.51	110.49
2	M3	182	TRP	N-CA-CB	15.98	137.50	110.49
1	L3	234	ALA	N-CA-C	14.34	126.63	111.14
1	L6	234	ALA	N-CA-C	14.33	126.62	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L5	234	ALA	N-CA-C	14.31	126.59	111.14
1	L4	234	ALA	N-CA-C	14.30	126.59	111.14
1	L1	234	ALA	N-CA-C	14.30	126.58	111.14
1	L2	234	ALA	N-CA-C	14.27	126.55	111.14
1	L5	239	HIS	N-CA-C	13.03	128.06	110.08
1	L4	239	HIS	N-CA-C	13.02	128.05	110.08
1	L1	239	HIS	N-CA-C	13.02	128.05	110.08
1	L3	239	HIS	N-CA-C	13.02	128.05	110.08
1	L6	239	HIS	N-CA-C	13.02	128.05	110.08
1	L2	239	HIS	N-CA-C	13.01	128.03	110.08
1	L4	256	LEU	N-CA-C	12.49	124.63	111.14
1	L6	255	LEU	N-CA-C	12.49	124.63	111.14
1	L1	255	LEU	N-CA-C	12.48	124.62	111.14
1	L2	256	LEU	N-CA-C	12.48	124.61	111.14
1	L4	255	LEU	N-CA-C	12.47	124.61	111.14
1	L1	256	LEU	N-CA-C	12.47	124.60	111.14
1	L3	256	LEU	N-CA-C	12.46	124.60	111.14
1	L3	255	LEU	N-CA-C	12.46	124.59	111.14
1	L5	255	LEU	N-CA-C	12.45	124.59	111.14
1	L2	255	LEU	N-CA-C	12.44	124.58	111.14
1	L5	256	LEU	N-CA-C	12.43	124.56	111.14
1	L6	256	LEU	N-CA-C	12.42	124.56	111.14
1	L4	238	LEU	N-CA-C	12.37	124.76	111.28
1	L6	238	LEU	N-CA-C	12.37	124.76	111.28
1	L1	238	LEU	N-CA-C	12.34	124.73	111.28
1	L5	238	LEU	N-CA-C	12.34	124.73	111.28
1	L2	238	LEU	N-CA-C	12.33	124.72	111.28
1	L3	238	LEU	N-CA-C	12.31	124.70	111.28
2	M6	176	PHE	N-CA-C	11.09	124.41	111.11
2	M2	176	PHE	N-CA-C	11.09	124.41	111.11
2	M3	176	PHE	N-CA-C	11.07	124.40	111.11
2	M1	176	PHE	N-CA-C	11.05	124.38	111.11
2	M5	176	PHE	N-CA-C	11.03	124.34	111.11
2	M4	176	PHE	N-CA-C	11.01	124.32	111.11
1	L6	452	LEU	CA-C-N	-10.53	108.29	119.98
1	L6	452	LEU	C-N-CA	-10.53	108.29	119.98
1	L4	452	LEU	CA-C-N	-10.53	108.29	119.98
1	L4	452	LEU	C-N-CA	-10.53	108.29	119.98
1	L3	452	LEU	CA-C-N	-10.51	108.31	119.98
1	L3	452	LEU	C-N-CA	-10.51	108.31	119.98
1	L5	452	LEU	CA-C-N	-10.50	108.32	119.98
1	L5	452	LEU	C-N-CA	-10.50	108.32	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L2	452	LEU	CA-C-N	-10.50	108.33	119.98
1	L2	452	LEU	C-N-CA	-10.50	108.33	119.98
1	L1	452	LEU	CA-C-N	-10.48	108.35	119.98
1	L1	452	LEU	C-N-CA	-10.48	108.35	119.98
1	L3	294	THR	N-CA-C	10.39	122.61	111.28
1	L2	294	THR	N-CA-C	10.37	122.58	111.28
1	L6	294	THR	N-CA-C	10.36	122.57	111.28
1	L1	294	THR	N-CA-C	10.34	122.56	111.28
1	L5	294	THR	N-CA-C	10.33	122.54	111.28
1	L4	294	THR	N-CA-C	10.32	122.53	111.28
2	M5	227	GLY	N-CA-C	9.65	123.69	112.50
2	M4	227	GLY	N-CA-C	9.62	123.66	112.50
2	M2	227	GLY	N-CA-C	9.60	123.64	112.50
2	M1	227	GLY	N-CA-C	9.59	123.63	112.50
2	M6	227	GLY	N-CA-C	9.59	123.63	112.50
2	M3	227	GLY	N-CA-C	9.57	123.60	112.50
2	M4	123	GLU	N-CA-C	-9.31	101.13	111.28
2	M6	123	GLU	N-CA-C	-9.30	101.15	111.28
2	M2	123	GLU	N-CA-C	-9.28	101.17	111.28
2	M5	123	GLU	N-CA-C	-9.26	101.19	111.28
2	M3	123	GLU	N-CA-C	-9.25	101.20	111.28
2	M1	123	GLU	N-CA-C	-9.24	101.21	111.28
1	L1	164	GLY	N-CA-C	-8.93	101.31	114.61
1	L3	164	GLY	N-CA-C	-8.91	101.33	114.61
1	L2	164	GLY	N-CA-C	-8.90	101.34	114.61
1	L4	164	GLY	N-CA-C	-8.90	101.35	114.61
1	L6	164	GLY	N-CA-C	-8.90	101.35	114.61
1	L5	164	GLY	N-CA-C	-8.90	101.36	114.61
2	M5	230	VAL	N-CA-C	8.41	119.20	110.62
2	M3	230	VAL	N-CA-C	8.37	119.16	110.62
2	M2	230	VAL	N-CA-C	8.35	119.14	110.62
2	M6	230	VAL	N-CA-C	8.35	119.13	110.62
2	M4	230	VAL	N-CA-C	8.34	119.12	110.62
2	M1	230	VAL	N-CA-C	8.32	119.11	110.62
2	M4	342	MET	N-CA-C	-8.27	99.60	110.43
2	M1	342	MET	N-CA-C	-8.27	99.60	110.43
2	M6	342	MET	N-CA-C	-8.26	99.61	110.43
2	M1	252	PRO	N-CA-CB	8.25	111.91	103.25
2	M4	252	PRO	N-CA-CB	8.25	111.91	103.25
2	M3	342	MET	N-CA-C	-8.24	99.63	110.43
2	M5	342	MET	N-CA-C	-8.24	99.64	110.43
2	M6	252	PRO	N-CA-CB	8.24	111.90	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M2	342	MET	N-CA-C	-8.23	99.64	110.43
2	M5	252	PRO	N-CA-CB	8.23	111.89	103.25
2	M3	252	PRO	N-CA-CB	8.21	111.87	103.25
2	M2	252	PRO	N-CA-CB	8.19	111.85	103.25
1	L3	213	ASN	N-CA-C	-8.05	101.72	113.16
1	L2	213	ASN	N-CA-C	-8.05	101.73	113.16
1	L5	213	ASN	N-CA-C	-8.04	101.74	113.16
1	L1	213	ASN	N-CA-C	-8.04	101.74	113.16
1	L4	213	ASN	N-CA-C	-8.03	101.76	113.16
1	L6	213	ASN	N-CA-C	-8.02	101.77	113.16
1	L2	134	ILE	N-CA-C	7.94	120.09	109.37
1	L4	134	ILE	N-CA-C	7.94	120.09	109.37
1	L1	134	ILE	N-CA-C	7.93	120.08	109.37
1	L3	134	ILE	N-CA-C	7.91	120.05	109.37
1	L6	134	ILE	N-CA-C	7.91	120.04	109.37
1	L5	134	ILE	N-CA-C	7.90	120.03	109.37
2	M6	117	LEU	N-CA-C	-7.89	102.76	111.36
2	M4	117	LEU	N-CA-C	-7.88	102.77	111.36
2	M1	117	LEU	N-CA-C	-7.87	102.78	111.36
2	M3	117	LEU	N-CA-C	-7.87	102.78	111.36
2	M5	117	LEU	N-CA-C	-7.85	102.80	111.36
2	M2	117	LEU	N-CA-C	-7.83	102.83	111.36
2	M6	98	MET	N-CA-C	7.68	120.54	111.71
2	M1	98	MET	N-CA-C	7.67	120.53	111.71
2	M2	98	MET	N-CA-C	7.67	120.53	111.71
2	M4	98	MET	N-CA-C	7.66	120.52	111.71
2	M3	98	MET	N-CA-C	7.66	120.51	111.71
2	M5	98	MET	N-CA-C	7.64	120.50	111.71
2	M3	370	PRO	N-CA-CB	7.63	110.48	103.08
2	M1	370	PRO	N-CA-CB	7.62	110.47	103.08
2	M2	370	PRO	N-CA-CB	7.61	110.47	103.08
2	M1	344	LEU	N-CA-C	-7.61	100.85	111.81
2	M5	370	PRO	N-CA-CB	7.61	110.46	103.08
1	L1	386	LEU	N-CA-C	7.61	119.57	111.28
2	M3	344	LEU	N-CA-C	-7.60	100.86	111.81
2	M6	370	PRO	N-CA-CB	7.59	110.45	103.08
2	M4	370	PRO	N-CA-CB	7.59	110.44	103.08
2	M6	344	LEU	N-CA-C	-7.59	100.89	111.81
1	L2	386	LEU	N-CA-C	7.58	119.55	111.28
1	L3	386	LEU	N-CA-C	7.58	119.54	111.28
1	L2	60	MET	N-CA-C	7.57	120.08	108.42
2	M4	344	LEU	N-CA-C	-7.57	100.90	111.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L1	60	MET	N-CA-C	7.57	120.08	108.42
1	L6	60	MET	N-CA-C	7.57	120.08	108.42
1	L5	34	THR	N-CA-C	-7.57	103.11	111.36
2	M5	344	LEU	N-CA-C	-7.56	100.92	111.81
1	L5	386	LEU	N-CA-C	7.56	119.52	111.28
2	M2	344	LEU	N-CA-C	-7.56	100.92	111.81
1	L1	34	THR	N-CA-C	-7.56	103.12	111.36
1	L6	386	LEU	N-CA-C	7.56	119.52	111.28
1	L3	323	MET	N-CA-C	-7.55	103.05	111.28
1	L5	323	MET	N-CA-C	-7.55	103.05	111.28
1	L4	323	MET	N-CA-C	-7.55	103.05	111.28
1	L4	60	MET	N-CA-C	7.55	120.04	108.42
1	L4	386	LEU	N-CA-C	7.55	119.50	111.28
1	L3	60	MET	N-CA-C	7.54	120.03	108.42
1	L5	60	MET	N-CA-C	7.54	120.03	108.42
1	L6	323	MET	N-CA-C	-7.54	103.06	111.28
1	L3	34	THR	N-CA-C	-7.54	103.14	111.36
1	L6	31	SER	N-CA-C	-7.52	103.08	111.28
1	L1	323	MET	N-CA-C	-7.52	103.09	111.28
1	L4	34	THR	N-CA-C	-7.51	103.17	111.36
1	L2	323	MET	N-CA-C	-7.51	103.09	111.28
1	L2	34	THR	N-CA-C	-7.50	103.19	111.36
1	L6	34	THR	N-CA-C	-7.50	103.19	111.36
1	L2	488	ILE	N-CA-C	7.48	117.61	110.42
1	L1	488	ILE	N-CA-C	7.47	117.59	110.42
1	L1	31	SER	N-CA-C	-7.46	103.15	111.28
1	L2	31	SER	N-CA-C	-7.45	103.16	111.28
1	L3	31	SER	N-CA-C	-7.45	103.16	111.28
1	L4	488	ILE	N-CA-C	7.44	117.56	110.42
1	L5	488	ILE	N-CA-C	7.43	117.56	110.42
1	L4	31	SER	N-CA-C	-7.42	103.19	111.28
1	L6	488	ILE	N-CA-C	7.42	117.54	110.42
1	L5	31	SER	N-CA-C	-7.42	103.19	111.28
1	L3	488	ILE	N-CA-C	7.41	117.53	110.42
2	M4	393	ILE	N-CA-C	-7.34	101.87	111.05
2	M5	393	ILE	N-CA-C	-7.34	101.87	111.05
2	M1	393	ILE	N-CA-C	-7.34	101.88	111.05
2	M2	393	ILE	N-CA-C	-7.34	101.88	111.05
2	M3	393	ILE	N-CA-C	-7.33	101.89	111.05
1	L2	493	PRO	N-CA-CB	7.32	110.18	103.08
2	M1	185	PRO	N-CA-CB	7.31	109.82	103.31
1	L5	493	PRO	N-CA-CB	7.31	110.17	103.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L1	493	PRO	N-CA-CB	7.31	110.17	103.08
2	M6	393	ILE	N-CA-C	-7.30	101.92	111.05
2	M3	185	PRO	N-CA-CB	7.30	109.80	103.31
1	L3	493	PRO	N-CA-CB	7.29	110.16	103.08
1	L6	493	PRO	N-CA-CB	7.29	110.16	103.08
1	L4	493	PRO	N-CA-CB	7.29	110.15	103.08
2	M5	185	PRO	N-CA-CB	7.28	109.79	103.31
2	M1	327	PHE	N-CA-C	-7.27	103.36	111.28
2	M4	185	PRO	N-CA-CB	7.27	109.78	103.31
1	L2	35	TYR	N-CA-C	-7.25	103.37	111.28
2	M2	185	PRO	N-CA-CB	7.25	109.77	103.31
1	L3	21	PRO	N-CA-CB	7.25	111.31	103.33
2	M6	185	PRO	N-CA-CB	7.25	109.76	103.31
1	L5	35	TYR	N-CA-C	-7.24	103.39	111.28
2	M2	327	PHE	N-CA-C	-7.24	103.39	111.28
1	L3	35	TYR	N-CA-C	-7.23	103.39	111.28
1	L1	35	TYR	N-CA-C	-7.23	103.40	111.28
1	L2	21	PRO	N-CA-CB	7.22	111.28	103.33
2	M4	327	PHE	N-CA-C	-7.22	103.41	111.28
1	L4	35	TYR	N-CA-C	-7.22	103.41	111.28
1	L6	35	TYR	N-CA-C	-7.22	103.41	111.28
1	L4	21	PRO	N-CA-CB	7.22	111.27	103.33
2	M3	327	PHE	N-CA-C	-7.21	103.42	111.28
1	L5	21	PRO	N-CA-CB	7.21	111.26	103.33
1	L6	21	PRO	N-CA-CB	7.20	111.25	103.33
2	M6	327	PHE	N-CA-C	-7.19	103.44	111.28
1	L1	21	PRO	N-CA-CB	7.19	111.24	103.33
2	M1	111	THR	N-CA-C	7.17	119.09	111.28
2	M5	111	THR	N-CA-C	7.17	119.09	111.28
2	M2	111	THR	N-CA-C	7.15	119.08	111.28
2	M5	327	PHE	N-CA-C	-7.15	103.42	111.07
2	M6	111	THR	N-CA-C	7.14	119.06	111.28
2	M3	111	THR	N-CA-C	7.13	119.05	111.28
1	L3	143	ASN	N-CA-C	7.13	118.84	111.14
1	L5	143	ASN	N-CA-C	7.13	118.84	111.14
1	L6	356	ILE	N-CA-C	-7.13	103.35	110.62
2	M4	111	THR	N-CA-C	7.13	119.05	111.28
1	L5	356	ILE	N-CA-C	-7.13	103.35	110.62
1	L3	356	ILE	N-CA-C	-7.12	103.35	110.62
1	L1	143	ASN	N-CA-C	7.12	118.83	111.14
1	L4	143	ASN	N-CA-C	7.12	118.83	111.14
1	L2	120	PRO	N-CA-CB	7.12	111.16	103.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L4	120	PRO	N-CA-CB	7.11	111.15	103.33
1	L1	356	ILE	N-CA-C	-7.11	103.37	110.62
1	L1	120	PRO	N-CA-CB	7.09	111.13	103.33
1	L2	356	ILE	N-CA-C	-7.09	103.39	110.62
1	L3	120	PRO	N-CA-CB	7.08	111.12	103.33
1	L6	143	ASN	N-CA-C	7.08	118.79	111.14
1	L2	143	ASN	N-CA-C	7.07	118.78	111.14
2	M2	7	PRO	N-CA-CB	7.07	110.67	103.25
2	M1	7	PRO	N-CA-CB	7.07	110.67	103.25
1	L4	356	ILE	N-CA-C	-7.07	103.41	110.62
1	L6	120	PRO	N-CA-CB	7.06	111.10	103.33
1	L5	36	LYS	N-CA-C	-7.06	103.14	113.16
1	L5	120	PRO	N-CA-CB	7.06	111.09	103.33
1	L4	36	LYS	N-CA-C	-7.06	103.14	113.16
2	M1	443	PRO	N-CA-CB	7.06	111.09	103.33
1	L2	58	PRO	N-CA-CB	7.05	110.66	103.25
2	M6	443	PRO	N-CA-CB	7.05	111.09	103.33
1	L3	36	LYS	N-CA-C	-7.05	103.15	113.16
2	M3	7	PRO	N-CA-CB	7.05	110.65	103.25
2	M4	7	PRO	N-CA-CB	7.05	110.65	103.25
1	L1	36	LYS	N-CA-C	-7.04	103.16	113.16
2	M2	443	PRO	N-CA-CB	7.04	111.07	103.33
1	L1	58	PRO	N-CA-CB	7.04	110.64	103.25
1	L2	36	LYS	N-CA-C	-7.04	103.17	113.16
2	M4	443	PRO	N-CA-CB	7.04	111.07	103.33
1	L5	58	PRO	N-CA-CB	7.03	110.63	103.25
2	M5	7	PRO	N-CA-CB	7.03	110.63	103.25
2	M3	32	LEU	N-CA-C	-7.02	95.84	110.80
1	L1	166	TRP	N-CA-C	-7.02	103.63	111.28
2	M5	443	PRO	N-CA-CB	7.01	111.05	103.33
2	M6	7	PRO	N-CA-CB	7.01	110.61	103.25
2	M4	32	LEU	N-CA-C	-7.01	95.87	110.80
2	M5	32	LEU	N-CA-C	-7.01	95.87	110.80
1	L6	36	LYS	N-CA-C	-7.01	103.21	113.16
2	M2	32	LEU	N-CA-C	-7.01	95.88	110.80
2	M6	32	LEU	N-CA-C	-7.00	95.88	110.80
1	L4	166	TRP	N-CA-C	-7.00	103.65	111.28
1	L5	166	TRP	N-CA-C	-7.00	103.64	111.28
1	L6	166	TRP	N-CA-C	-7.00	103.65	111.28
2	M1	32	LEU	N-CA-C	-7.00	95.89	110.80
1	L3	165	TRP	N-CA-C	-7.00	103.62	112.93
1	L4	58	PRO	N-CA-CB	6.99	110.59	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L5	165	TRP	N-CA-C	-6.99	103.63	112.93
1	L1	165	TRP	N-CA-C	-6.99	103.64	112.93
1	L2	166	TRP	N-CA-C	-6.99	103.66	111.28
1	L3	58	PRO	N-CA-CB	6.99	110.59	103.25
1	L6	58	PRO	N-CA-CB	6.99	110.58	103.25
1	L4	165	TRP	N-CA-C	-6.98	103.64	112.93
2	M1	128	PRO	N-CA-CB	6.98	111.01	103.33
1	L3	166	TRP	N-CA-C	-6.98	103.67	111.28
2	M2	128	PRO	N-CA-CB	6.98	111.00	103.33
1	L6	165	TRP	N-CA-C	-6.98	103.65	112.93
1	L2	165	TRP	N-CA-C	-6.97	103.65	112.93
2	M3	443	PRO	N-CA-CB	6.97	111.00	103.33
2	M5	128	PRO	N-CA-CB	6.96	110.98	103.33
2	M3	128	PRO	N-CA-CB	6.96	110.98	103.33
2	M6	128	PRO	N-CA-CB	6.95	110.97	103.33
1	L2	99	PRO	N-CA-CB	6.94	110.54	103.25
1	L3	234	ALA	CA-C-N	6.94	130.27	120.28
1	L3	234	ALA	C-N-CA	6.94	130.27	120.28
1	L1	234	ALA	CA-C-N	6.93	130.25	120.28
1	L1	234	ALA	C-N-CA	6.93	130.25	120.28
1	L4	234	ALA	CA-C-N	6.92	130.25	120.28
1	L4	234	ALA	C-N-CA	6.92	130.25	120.28
1	L1	99	PRO	N-CA-CB	6.92	110.51	103.25
1	L5	99	PRO	N-CA-CB	6.91	110.51	103.25
1	L2	234	ALA	CA-C-N	6.91	130.23	120.28
1	L2	234	ALA	C-N-CA	6.91	130.23	120.28
2	M4	128	PRO	N-CA-CB	6.91	110.93	103.33
1	L6	99	PRO	N-CA-CB	6.91	110.50	103.25
1	L6	234	ALA	CA-C-N	6.91	130.22	120.28
1	L6	234	ALA	C-N-CA	6.91	130.22	120.28
1	L4	99	PRO	N-CA-CB	6.90	110.50	103.25
1	L3	99	PRO	N-CA-CB	6.90	110.49	103.25
1	L5	348	LEU	N-CA-C	-6.88	103.79	111.28
2	M1	26	ASN	N-CA-C	-6.87	103.79	111.28
1	L2	348	LEU	N-CA-C	-6.87	103.79	111.28
1	L6	348	LEU	N-CA-C	-6.87	103.79	111.28
1	L5	234	ALA	CA-C-N	6.87	130.17	120.28
1	L5	234	ALA	C-N-CA	6.87	130.17	120.28
1	L6	30	MET	N-CA-C	-6.87	103.72	111.07
1	L3	348	LEU	N-CA-C	-6.86	103.80	111.28
2	M5	26	ASN	N-CA-C	-6.85	103.81	111.28
2	M4	26	ASN	N-CA-C	-6.85	103.81	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M6	26	ASN	N-CA-C	-6.85	103.81	111.28
1	L1	30	MET	N-CA-C	-6.85	103.74	111.07
1	L4	348	LEU	N-CA-C	-6.85	103.82	111.28
2	M2	26	ASN	N-CA-C	-6.84	103.82	111.28
1	L3	66	GLY	N-CA-C	-6.84	93.45	113.30
1	L4	66	GLY	N-CA-C	-6.84	93.45	113.30
1	L6	66	GLY	N-CA-C	-6.84	93.45	113.30
1	L2	66	GLY	N-CA-C	-6.84	93.46	113.30
1	L5	66	GLY	N-CA-C	-6.84	93.47	113.30
1	L1	66	GLY	N-CA-C	-6.84	93.48	113.30
1	L3	30	MET	N-CA-C	-6.83	103.76	111.07
2	M3	26	ASN	N-CA-C	-6.83	103.83	111.28
1	L1	348	LEU	N-CA-C	-6.83	103.84	111.28
1	L4	30	MET	N-CA-C	-6.83	103.77	111.07
1	L2	251	PRO	N-CA-CB	6.82	110.42	103.25
2	M1	260	PRO	N-CA-CB	6.82	110.41	103.25
2	M6	260	PRO	N-CA-CB	6.81	110.40	103.25
1	L1	251	PRO	N-CA-CB	6.81	110.40	103.25
1	L2	30	MET	N-CA-C	-6.81	103.78	111.07
1	L4	438	PHE	N-CA-C	-6.81	101.75	110.53
1	L6	251	PRO	N-CA-CB	6.81	110.40	103.25
1	L1	37	PRO	N-CA-CB	6.80	110.73	103.39
2	M3	260	PRO	N-CA-CB	6.80	110.39	103.25
1	L5	37	PRO	N-CA-CB	6.80	110.73	103.39
2	M2	260	PRO	N-CA-CB	6.79	110.38	103.25
2	M4	260	PRO	N-CA-CB	6.79	110.38	103.25
1	L4	37	PRO	N-CA-CB	6.79	110.72	103.39
1	L6	438	PHE	N-CA-C	-6.79	101.78	110.53
1	L5	438	PHE	N-CA-C	-6.78	101.79	110.53
1	L5	30	MET	N-CA-C	-6.77	103.82	111.07
2	M2	217	PRO	N-CA-CB	6.77	110.78	103.33
1	L3	251	PRO	N-CA-CB	6.77	110.36	103.25
2	M5	260	PRO	N-CA-CB	6.77	110.36	103.25
1	L6	37	PRO	N-CA-CB	6.77	110.70	103.39
1	L1	438	PHE	N-CA-C	-6.76	101.80	110.53
2	M1	217	PRO	N-CA-CB	6.76	110.77	103.33
1	L2	422	SER	N-CA-C	-6.76	103.83	111.07
2	M6	217	PRO	N-CA-CB	6.76	110.77	103.33
2	M1	128	PRO	N-CA-C	-6.76	104.13	113.53
1	L2	37	PRO	N-CA-CB	6.76	110.69	103.39
1	L2	438	PHE	N-CA-C	-6.76	101.81	110.53
1	L3	422	SER	N-CA-C	-6.76	103.84	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L4	251	PRO	N-CA-CB	6.76	110.35	103.25
1	L3	438	PHE	N-CA-C	-6.76	101.81	110.53
1	L5	422	SER	N-CA-C	-6.76	103.84	111.07
2	M5	217	PRO	N-CA-CB	6.76	110.76	103.33
1	L6	422	SER	N-CA-C	-6.76	103.84	111.07
1	L3	129	LEU	N-CA-C	-6.75	103.92	111.28
1	L3	37	PRO	N-CA-CB	6.75	110.75	103.33
2	M4	217	PRO	N-CA-CB	6.75	110.75	103.33
1	L5	251	PRO	N-CA-CB	6.75	110.34	103.25
2	M2	128	PRO	N-CA-C	-6.75	104.15	113.53
1	L2	129	LEU	N-CA-C	-6.74	103.93	111.28
1	L1	422	SER	N-CA-C	-6.74	103.86	111.07
2	M3	217	PRO	N-CA-CB	6.74	110.74	103.33
2	M3	128	PRO	N-CA-C	-6.73	104.18	113.53
1	L4	422	SER	N-CA-C	-6.72	103.88	111.07
1	L5	129	LEU	N-CA-C	-6.72	103.96	111.28
2	M4	128	PRO	N-CA-C	-6.71	104.20	113.53
1	L6	129	LEU	N-CA-C	-6.71	103.97	111.28
2	M5	128	PRO	N-CA-C	-6.71	104.21	113.53
2	M6	128	PRO	N-CA-C	-6.71	104.21	113.53
1	L1	239	HIS	CA-C-N	-6.69	111.48	119.84
1	L1	239	HIS	C-N-CA	-6.69	111.48	119.84
1	L4	129	LEU	N-CA-C	-6.69	103.99	111.28
2	M6	105	PHE	N-CA-C	-6.69	104.07	111.36
1	L1	129	LEU	N-CA-C	-6.68	103.99	111.28
1	L2	239	HIS	CA-C-N	-6.68	111.49	119.84
1	L2	239	HIS	C-N-CA	-6.68	111.49	119.84
1	L4	239	HIS	CA-C-N	-6.68	111.49	119.84
1	L4	239	HIS	C-N-CA	-6.68	111.49	119.84
2	M3	105	PHE	N-CA-C	-6.68	104.08	111.36
1	L2	503	PRO	N-CA-CB	6.67	110.67	103.33
1	L3	239	HIS	CA-C-N	-6.67	111.50	119.84
1	L3	239	HIS	C-N-CA	-6.67	111.50	119.84
2	M4	105	PHE	N-CA-C	-6.67	104.09	111.36
1	L6	503	PRO	N-CA-CB	6.67	110.66	103.33
2	M2	105	PHE	N-CA-C	-6.66	104.10	111.36
1	L5	239	HIS	CA-C-N	-6.66	111.52	119.84
1	L5	239	HIS	C-N-CA	-6.66	111.52	119.84
1	L4	503	PRO	N-CA-CB	6.66	110.65	103.33
1	L2	41	PRO	N-CA-CB	6.65	110.35	103.23
1	L3	503	PRO	N-CA-CB	6.65	110.65	103.33
1	L6	239	HIS	CA-C-N	-6.65	111.53	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L6	239	HIS	C-N-CA	-6.65	111.53	119.84
2	M1	105	PHE	N-CA-C	-6.65	104.11	111.36
1	L5	503	PRO	N-CA-CB	6.65	110.65	103.33
1	L6	41	PRO	N-CA-CB	6.64	110.34	103.23
2	M5	105	PHE	N-CA-C	-6.64	104.12	111.36
1	L4	41	PRO	N-CA-CB	6.62	110.32	103.23
1	L1	503	PRO	N-CA-CB	6.62	110.61	103.33
1	L1	41	PRO	N-CA-CB	6.62	110.31	103.23
1	L5	41	PRO	N-CA-CB	6.62	110.31	103.23
1	L1	413	ASP	N-CA-C	6.61	118.48	111.28
1	L3	41	PRO	N-CA-CB	6.59	110.29	103.23
1	L2	413	ASP	N-CA-C	6.58	118.45	111.28
1	L1	468	PRO	N-CA-CB	6.58	110.57	103.33
1	L4	413	ASP	N-CA-C	6.58	118.45	111.28
1	L1	221	PRO	N-CA-CB	6.57	110.56	103.33
1	L3	413	ASP	N-CA-C	6.57	118.44	111.28
1	L4	221	PRO	N-CA-CB	6.57	110.55	103.33
1	L6	468	PRO	N-CA-CB	6.57	110.55	103.33
1	L6	413	ASP	N-CA-C	6.56	118.43	111.28
1	L2	221	PRO	N-CA-CB	6.56	110.55	103.33
1	L2	468	PRO	N-CA-CB	6.56	110.54	103.33
1	L5	413	ASP	N-CA-C	6.56	118.43	111.28
1	L3	468	PRO	N-CA-CB	6.55	110.54	103.33
1	L4	468	PRO	N-CA-CB	6.55	110.53	103.33
1	L5	468	PRO	N-CA-CB	6.55	110.53	103.33
1	L6	221	PRO	N-CA-CB	6.55	110.53	103.33
1	L5	221	PRO	N-CA-CB	6.51	110.50	103.33
2	M5	451	PRO	N-CA-CB	6.51	110.16	103.00
2	M3	272	THR	N-CA-C	-6.51	104.18	111.28
1	L3	221	PRO	N-CA-CB	6.50	110.49	103.33
2	M3	451	PRO	N-CA-CB	6.50	110.15	103.00
2	M4	451	PRO	N-CA-CB	6.50	110.15	103.00
2	M2	451	PRO	N-CA-CB	6.49	110.14	103.00
2	M1	451	PRO	N-CA-CB	6.49	110.13	103.00
1	L3	455	PRO	N-CA-CB	6.49	110.47	103.33
2	M2	201	MET	N-CA-C	6.48	118.01	111.07
2	M4	201	MET	N-CA-C	6.48	118.00	111.07
2	M1	272	THR	N-CA-C	-6.47	104.22	111.28
1	L3	498	PRO	N-CA-CB	6.47	110.45	103.33
2	M5	201	MET	N-CA-C	6.47	117.99	111.07
1	L4	498	PRO	N-CA-CB	6.46	110.44	103.33
1	L2	498	PRO	N-CA-CB	6.46	110.44	103.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L1	498	PRO	N-CA-CB	6.46	110.44	103.33
1	L1	380	PRO	N-CA-CB	6.46	110.37	103.39
1	L1	157	ILE	N-CA-C	-6.46	95.91	109.34
1	L3	274	PRO	N-CA-CB	6.46	110.36	103.39
2	M6	451	PRO	N-CA-CB	6.46	110.10	103.00
2	M1	74	PRO	N-CA-CB	6.45	110.67	103.44
2	M2	74	PRO	N-CA-CB	6.45	110.67	103.44
2	M2	272	THR	N-CA-C	-6.45	104.25	111.28
1	L3	157	ILE	N-CA-C	-6.45	95.92	109.34
1	L5	157	ILE	N-CA-C	-6.45	95.92	109.34
2	M4	13	PRO	N-CA-CB	6.45	110.42	103.33
1	L6	455	PRO	N-CA-CB	6.45	110.42	103.33
1	L6	458	PRO	N-CA-CB	6.45	110.42	103.33
2	M6	201	MET	N-CA-C	6.45	117.97	111.07
1	L4	455	PRO	N-CA-CB	6.44	110.42	103.33
1	L1	274	PRO	N-CA-CB	6.44	110.35	103.39
2	M3	201	MET	N-CA-C	6.44	117.96	111.07
1	L4	157	ILE	N-CA-C	-6.44	95.94	109.34
1	L5	380	PRO	N-CA-CB	6.44	110.35	103.39
2	M5	13	PRO	N-CA-CB	6.44	110.42	103.33
1	L6	157	ILE	N-CA-C	-6.44	95.94	109.34
1	L1	455	PRO	N-CA-CB	6.44	110.41	103.33
1	L1	458	PRO	N-CA-CB	6.44	110.41	103.33
1	L3	458	PRO	N-CA-CB	6.44	110.41	103.33
2	M1	201	MET	N-CA-C	6.43	117.95	111.07
1	L5	455	PRO	N-CA-CB	6.43	110.41	103.33
2	M5	64	PRO	N-CA-C	-6.43	104.58	113.53
2	M5	272	THR	N-CA-C	-6.43	104.27	111.28
2	M6	272	THR	N-CA-C	-6.43	104.27	111.28
2	M3	64	PRO	N-CA-C	-6.43	104.59	113.53
2	M6	13	PRO	N-CA-CB	6.43	110.40	103.33
1	L2	157	ILE	N-CA-C	-6.43	95.97	109.34
1	L3	380	PRO	N-CA-CB	6.43	110.33	103.39
2	M6	64	PRO	N-CA-C	-6.43	104.59	113.53
2	M1	13	PRO	N-CA-CB	6.43	110.40	103.33
1	L6	274	PRO	N-CA-CB	6.43	110.33	103.39
1	L4	458	PRO	N-CA-CB	6.42	110.40	103.33
2	M4	272	THR	N-CA-C	-6.42	104.28	111.28
1	L5	274	PRO	N-CA-CB	6.42	110.33	103.39
1	L2	380	PRO	N-CA-CB	6.42	110.33	103.39
1	L6	380	PRO	N-CA-CB	6.42	110.33	103.39
1	L2	455	PRO	N-CA-CB	6.42	110.39	103.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L4	274	PRO	N-CA-CB	6.42	110.33	103.39
1	L5	498	PRO	N-CA-CB	6.42	110.39	103.33
1	L6	498	PRO	N-CA-CB	6.42	110.39	103.33
2	M3	13	PRO	N-CA-CB	6.42	110.39	103.33
2	M5	74	PRO	N-CA-CB	6.42	110.63	103.44
2	M2	13	PRO	N-CA-CB	6.41	110.38	103.33
2	M6	74	PRO	N-CA-CB	6.41	110.62	103.44
2	M1	64	PRO	N-CA-C	-6.41	104.62	113.53
2	M2	64	PRO	N-CA-C	-6.41	104.62	113.53
2	M3	94	LEU	CA-C-N	-6.41	111.69	120.28
2	M3	94	LEU	C-N-CA	-6.41	111.69	120.28
1	L4	380	PRO	N-CA-CB	6.41	110.31	103.39
2	M1	94	LEU	CA-C-N	-6.40	111.70	120.28
2	M1	94	LEU	C-N-CA	-6.40	111.70	120.28
1	L2	274	PRO	N-CA-CB	6.40	110.30	103.39
2	M4	74	PRO	N-CA-CB	6.40	110.61	103.44
2	M4	64	PRO	N-CA-C	-6.40	104.64	113.53
2	M3	110	PHE	N-CA-C	-6.39	103.82	112.26
1	L2	458	PRO	N-CA-CB	6.39	110.36	103.33
2	M3	74	PRO	N-CA-CB	6.39	110.60	103.44
2	M4	110	PHE	N-CA-C	-6.39	103.82	112.26
1	L5	458	PRO	N-CA-CB	6.39	110.36	103.33
2	M2	388	TRP	N-CA-C	6.39	120.69	113.02
1	L2	249	PRO	N-CA-CB	6.39	109.96	103.25
2	M4	388	TRP	N-CA-C	6.39	120.69	113.02
2	M5	94	LEU	CA-C-N	-6.39	111.72	120.28
2	M5	94	LEU	C-N-CA	-6.39	111.72	120.28
2	M3	371	PRO	N-CA-CB	6.38	109.95	103.25
2	M1	388	TRP	N-CA-C	6.38	120.67	113.02
2	M6	371	PRO	N-CA-CB	6.38	109.95	103.25
2	M6	94	LEU	CA-C-N	-6.38	111.74	120.28
2	M6	94	LEU	C-N-CA	-6.38	111.74	120.28
2	M5	388	TRP	N-CA-C	6.37	120.67	113.02
2	M2	94	LEU	CA-C-N	-6.37	111.75	120.28
2	M2	94	LEU	C-N-CA	-6.37	111.75	120.28
2	M2	371	PRO	N-CA-CB	6.37	109.94	103.25
1	L4	477	LEU	O-C-N	6.37	128.87	122.12
2	M2	110	PHE	N-CA-C	-6.37	103.86	112.26
1	L5	477	LEU	O-C-N	6.36	128.87	122.12
2	M1	110	PHE	N-CA-C	-6.36	103.87	112.26
2	M5	371	PRO	N-CA-CB	6.36	109.93	103.25
2	M4	94	LEU	CA-C-N	-6.36	111.76	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M4	94	LEU	C-N-CA	-6.36	111.76	120.28
1	L1	243	PRO	N-CA-CB	6.36	110.32	103.33
2	M1	349	GLN	N-CA-C	-6.35	104.27	111.07
1	L6	243	PRO	N-CA-CB	6.35	110.32	103.33
1	L3	249	PRO	N-CA-CB	6.35	109.92	103.25
1	L5	167	TYR	N-CA-C	-6.35	104.36	111.28
2	M3	388	TRP	N-CA-C	6.35	120.64	113.02
1	L1	249	PRO	N-CA-CB	6.34	109.91	103.25
1	L1	477	LEU	O-C-N	6.34	128.85	122.12
2	M6	388	TRP	N-CA-C	6.34	120.63	113.02
1	L6	249	PRO	N-CA-CB	6.34	109.91	103.25
2	M6	110	PHE	N-CA-C	-6.34	103.89	112.26
2	M4	371	PRO	N-CA-CB	6.34	109.91	103.25
1	L2	243	PRO	N-CA-CB	6.34	110.30	103.33
2	M5	110	PHE	N-CA-C	-6.34	103.89	112.26
1	L6	477	LEU	O-C-N	6.34	128.84	122.12
1	L3	243	PRO	N-CA-CB	6.33	110.30	103.33
1	L2	477	LEU	O-C-N	6.33	128.83	122.12
2	M1	371	PRO	N-CA-CB	6.33	109.90	103.25
2	M3	349	GLN	N-CA-C	-6.33	104.30	111.07
1	L4	249	PRO	N-CA-CB	6.33	109.89	103.25
2	M5	224	PRO	N-CA-C	-6.33	104.73	113.53
1	L3	477	LEU	O-C-N	6.33	128.82	122.12
1	L1	167	TYR	N-CA-C	-6.32	104.39	111.28
1	L4	167	TYR	N-CA-C	-6.32	104.39	111.28
1	L5	249	PRO	N-CA-CB	6.32	109.88	103.25
2	M2	349	GLN	N-CA-C	-6.32	104.31	111.07
2	M4	349	GLN	N-CA-C	-6.31	104.32	111.07
1	L6	167	TYR	N-CA-C	-6.31	104.40	111.28
1	L2	167	TYR	N-CA-C	-6.31	104.41	111.28
2	M1	224	PRO	N-CA-C	-6.30	104.77	113.53
2	M5	349	GLN	N-CA-C	-6.30	104.32	111.07
2	M6	224	PRO	N-CA-C	-6.30	104.77	113.53
2	M2	224	PRO	N-CA-C	-6.29	104.78	113.53
1	L4	243	PRO	N-CA-CB	6.29	110.25	103.33
2	M4	224	PRO	N-CA-C	-6.29	104.79	113.53
2	M6	349	GLN	N-CA-C	-6.29	104.34	111.07
1	L3	167	TYR	N-CA-C	-6.29	104.42	111.28
2	M5	159	PRO	N-CA-CB	6.29	109.96	103.23
2	M3	224	PRO	N-CA-C	-6.28	104.80	113.53
2	M4	159	PRO	N-CA-CB	6.28	109.95	103.23
1	L5	243	PRO	N-CA-CB	6.28	110.24	103.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M6	159	PRO	N-CA-CB	6.28	109.94	103.23
2	M2	159	PRO	N-CA-CB	6.27	109.94	103.23
2	M3	159	PRO	N-CA-CB	6.26	109.93	103.23
2	M1	20	ASN	N-CA-C	-6.25	100.68	110.36
2	M1	159	PRO	N-CA-CB	6.24	109.91	103.23
2	M3	20	ASN	N-CA-C	-6.24	100.69	110.36
1	L6	240	PRO	N-CA-CB	6.23	109.79	103.25
2	M6	20	ASN	N-CA-C	-6.22	100.72	110.36
2	M2	20	ASN	N-CA-C	-6.21	100.73	110.36
1	L2	488	ILE	CA-C-N	-6.21	112.37	120.44
1	L2	488	ILE	C-N-CA	-6.21	112.37	120.44
1	L4	230	THR	N-CA-C	6.21	118.05	111.28
2	M4	20	ASN	N-CA-C	-6.21	100.74	110.36
1	L3	488	ILE	CA-C-N	-6.21	112.37	120.44
1	L3	488	ILE	C-N-CA	-6.21	112.37	120.44
1	L5	488	ILE	CA-C-N	-6.20	112.38	120.44
1	L5	488	ILE	C-N-CA	-6.20	112.38	120.44
2	M5	20	ASN	N-CA-C	-6.20	100.75	110.36
1	L6	488	ILE	CA-C-N	-6.20	112.39	120.44
1	L6	488	ILE	C-N-CA	-6.20	112.39	120.44
1	L3	494	PRO	N-CA-CB	6.19	109.85	103.23
1	L4	488	ILE	CA-C-N	-6.19	112.40	120.44
1	L4	488	ILE	C-N-CA	-6.19	112.40	120.44
1	L4	494	PRO	N-CA-CB	6.18	109.85	103.23
1	L4	240	PRO	N-CA-CB	6.18	109.74	103.25
1	L1	240	PRO	N-CA-CB	6.18	109.74	103.25
1	L5	240	PRO	N-CA-CB	6.18	109.74	103.25
1	L5	230	THR	N-CA-C	6.18	118.01	111.28
2	M4	253	MET	N-CA-C	-6.17	105.79	113.38
1	L1	488	ILE	CA-C-N	-6.17	112.42	120.44
1	L1	488	ILE	C-N-CA	-6.17	112.42	120.44
1	L3	230	THR	N-CA-C	6.17	118.00	111.28
1	L2	240	PRO	N-CA-CB	6.17	109.72	103.25
2	M5	306	PRO	N-CA-CB	6.16	109.83	103.23
1	L2	230	THR	N-CA-C	6.16	118.00	111.28
1	L1	494	PRO	N-CA-CB	6.16	109.82	103.23
1	L3	240	PRO	N-CA-CB	6.16	109.72	103.25
2	M3	253	MET	N-CA-C	-6.16	105.80	113.38
1	L2	494	PRO	N-CA-CB	6.15	109.81	103.23
1	L6	494	PRO	N-CA-CB	6.15	109.81	103.23
2	M2	253	MET	N-CA-C	-6.14	105.82	113.38
2	M5	253	MET	N-CA-C	-6.14	105.82	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L5	494	PRO	N-CA-CB	6.13	109.79	103.23
2	M2	306	PRO	N-CA-CB	6.13	109.79	103.23
2	M1	253	MET	N-CA-C	-6.13	105.84	113.38
2	M6	253	MET	N-CA-C	-6.13	105.85	113.38
2	M6	306	PRO	N-CA-CB	6.12	109.78	103.23
2	M1	306	PRO	N-CA-CB	6.12	109.78	103.23
1	L6	230	THR	N-CA-C	6.12	117.95	111.28
2	M4	306	PRO	N-CA-CB	6.11	109.77	103.23
1	L1	230	THR	N-CA-C	6.09	117.92	111.28
1	L5	214	PRO	N-CA-CB	6.09	110.21	103.26
2	M3	306	PRO	N-CA-CB	6.09	109.75	103.23
1	L2	133	LEU	N-CA-C	6.07	117.90	111.28
1	L3	214	PRO	N-CA-CB	6.06	110.17	103.26
1	L6	133	LEU	N-CA-C	6.06	117.89	111.28
1	L3	133	LEU	N-CA-C	6.06	117.89	111.28
1	L1	214	PRO	N-CA-CB	6.06	110.17	103.26
1	L2	505	TYR	N-CA-C	-6.05	104.76	111.36
1	L1	133	LEU	N-CA-C	6.05	117.87	111.28
2	M5	125	THR	N-CA-C	-6.05	104.69	111.28
1	L6	505	TYR	N-CA-C	-6.04	104.77	111.36
2	M3	125	THR	N-CA-C	-6.04	104.69	111.28
1	L4	214	PRO	N-CA-CB	6.04	110.15	103.26
1	L5	133	LEU	N-CA-C	6.04	117.87	111.28
1	L2	214	PRO	N-CA-CB	6.04	110.14	103.26
2	M3	64	PRO	N-CA-CB	6.04	109.97	103.33
2	M1	93	LYS	N-CA-C	-6.04	104.70	111.28
1	L1	505	TYR	N-CA-C	-6.04	104.78	111.36
2	M6	125	THR	N-CA-C	-6.04	104.70	111.28
2	M2	64	PRO	N-CA-CB	6.03	109.97	103.33
2	M5	93	LYS	N-CA-C	-6.03	104.70	111.28
2	M2	125	THR	N-CA-C	-6.03	104.71	111.28
2	M6	93	LYS	N-CA-C	-6.03	104.71	111.28
1	L4	133	LEU	N-CA-C	6.03	117.85	111.28
2	M1	64	PRO	N-CA-CB	6.03	109.96	103.33
2	M3	93	LYS	N-CA-C	-6.02	104.71	111.28
1	L6	214	PRO	N-CA-CB	6.02	110.13	103.26
2	M4	125	THR	N-CA-C	-6.02	104.72	111.28
2	M5	64	PRO	N-CA-CB	6.02	109.95	103.33
1	L5	505	TYR	N-CA-C	-6.02	104.80	111.36
1	L4	505	TYR	N-CA-C	-6.01	104.81	111.36
1	L1	389	GLY	N-CA-C	-6.01	107.21	114.66
1	L3	505	TYR	N-CA-C	-6.01	104.81	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M2	93	LYS	N-CA-C	-6.01	104.73	111.28
2	M6	64	PRO	N-CA-CB	6.00	109.93	103.33
1	L5	389	GLY	N-CA-C	-6.00	107.22	114.66
1	L6	389	GLY	N-CA-C	-6.00	107.22	114.66
2	M1	125	THR	N-CA-C	-6.00	104.74	111.28
1	L2	389	GLY	N-CA-C	-6.00	107.22	114.66
2	M4	64	PRO	N-CA-CB	6.00	109.93	103.33
1	L3	389	GLY	N-CA-C	-5.99	107.23	114.66
1	L5	195	ALA	N-CA-C	-5.99	106.00	113.55
1	L2	195	ALA	N-CA-C	-5.99	106.00	113.55
2	M4	93	LYS	N-CA-C	-5.99	104.75	111.28
1	L4	389	GLY	N-CA-C	-5.99	107.24	114.66
1	L6	371	LYS	N-CA-C	-5.97	104.78	111.28
1	L4	371	LYS	N-CA-C	-5.97	104.78	111.28
1	L6	195	ALA	N-CA-C	-5.97	106.03	113.55
1	L1	195	ALA	N-CA-C	-5.96	106.04	113.55
1	L3	195	ALA	N-CA-C	-5.96	106.04	113.55
1	L2	371	LYS	N-CA-C	-5.95	104.79	111.28
1	L3	297	THR	N-CA-C	-5.95	100.38	109.65
1	L1	297	THR	N-CA-C	-5.94	100.39	109.65
1	L4	195	ALA	N-CA-C	-5.94	106.07	113.55
1	L1	371	LYS	N-CA-C	-5.94	104.81	111.28
2	M1	174	LEU	N-CA-C	-5.94	98.16	110.80
1	L2	297	THR	N-CA-C	-5.93	100.39	109.65
1	L3	371	LYS	N-CA-C	-5.93	104.82	111.28
1	L6	297	THR	N-CA-C	-5.93	100.40	109.65
2	M2	174	LEU	N-CA-C	-5.93	98.17	110.80
1	L4	297	THR	N-CA-C	-5.93	100.40	109.65
2	M4	174	LEU	N-CA-C	-5.92	98.18	110.80
1	L5	371	LYS	N-CA-C	-5.92	104.82	111.28
2	M5	174	LEU	N-CA-C	-5.92	98.18	110.80
2	M6	174	LEU	N-CA-C	-5.92	98.18	110.80
2	M3	174	LEU	N-CA-C	-5.92	98.19	110.80
2	M4	288	TYR	N-CA-C	-5.92	104.83	111.28
1	L5	297	THR	N-CA-C	-5.92	100.42	109.65
2	M1	17	LEU	N-CA-C	5.92	117.73	111.28
2	M5	17	LEU	N-CA-C	5.92	117.73	111.28
1	L1	287	LEU	N-CA-C	5.92	117.73	111.28
2	M4	353	PRO	N-CA-C	5.91	121.32	113.40
1	L6	287	LEU	N-CA-C	5.91	117.72	111.28
2	M2	288	TYR	N-CA-C	-5.91	104.84	111.28
1	L4	287	LEU	N-CA-C	5.90	117.72	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M6	288	TYR	N-CA-C	-5.90	104.85	111.28
2	M3	17	LEU	N-CA-C	5.90	117.71	111.28
2	M3	288	TYR	N-CA-C	-5.90	104.85	111.28
1	L4	311	ILE	N-CA-C	-5.90	104.61	110.62
1	L1	6	MET	N-CA-C	-5.90	104.85	111.28
2	M2	17	LEU	N-CA-C	5.89	117.71	111.28
1	L2	287	LEU	N-CA-C	5.89	117.70	111.28
2	M1	288	TYR	N-CA-C	-5.89	104.86	111.28
2	M1	65	LEU	N-CA-C	-5.89	104.86	111.28
1	L1	311	ILE	N-CA-C	-5.89	104.62	110.62
2	M2	353	PRO	N-CA-C	5.88	121.28	113.40
1	L6	184	ARG	N-CA-C	-5.88	104.86	111.28
1	L6	311	ILE	N-CA-C	-5.88	104.62	110.62
2	M6	353	PRO	N-CA-C	5.88	121.29	113.40
2	M4	17	LEU	N-CA-C	5.88	117.69	111.28
1	L5	287	LEU	N-CA-C	5.88	117.69	111.28
2	M5	288	TYR	N-CA-C	-5.88	104.87	111.28
2	M6	17	LEU	N-CA-C	5.88	117.69	111.28
1	L1	184	ARG	N-CA-C	-5.88	104.88	111.28
1	L3	6	MET	N-CA-C	-5.87	104.88	111.28
1	L5	184	ARG	N-CA-C	-5.87	104.88	111.28
2	M5	353	PRO	N-CA-C	5.87	121.27	113.40
1	L2	184	ARG	N-CA-C	-5.87	104.89	111.28
1	L3	184	ARG	N-CA-C	-5.87	104.89	111.28
1	L1	233	SER	N-CA-C	5.86	117.67	111.28
2	M3	353	PRO	N-CA-C	5.86	121.26	113.40
2	M4	65	LEU	N-CA-C	-5.86	104.89	111.28
1	L3	287	LEU	N-CA-C	5.86	117.67	111.28
1	L5	233	SER	N-CA-C	5.86	117.67	111.28
2	M1	353	PRO	N-CA-C	5.85	121.25	113.40
1	L6	6	MET	N-CA-C	-5.85	104.90	111.28
1	L6	233	SER	N-CA-C	5.85	117.66	111.28
1	L3	311	ILE	N-CA-C	-5.85	104.65	110.62
2	M6	187	HIS	N-CA-C	5.85	118.05	108.52
2	M1	187	HIS	N-CA-C	5.85	118.05	108.52
2	M5	65	LEU	N-CA-C	-5.85	104.91	111.28
1	L4	130	LEU	N-CA-C	-5.84	104.91	111.28
1	L4	184	ARG	N-CA-C	-5.84	104.91	111.28
1	L5	6	MET	N-CA-C	-5.84	104.91	111.28
2	M2	65	LEU	N-CA-C	-5.84	104.91	111.28
1	L2	6	MET	N-CA-C	-5.84	104.91	111.28
1	L2	233	SER	N-CA-C	5.84	117.65	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M3	65	LEU	N-CA-C	-5.84	104.91	111.28
1	L4	6	MET	N-CA-C	-5.84	104.91	111.28
1	L6	130	LEU	N-CA-C	-5.84	104.91	111.28
2	M3	187	HIS	N-CA-C	5.84	118.04	108.52
2	M4	208	PRO	N-CA-CB	5.84	109.38	103.25
2	M4	187	HIS	N-CA-C	5.84	118.03	108.52
1	L5	311	ILE	N-CA-C	-5.84	104.67	110.62
1	L1	130	LEU	N-CA-C	-5.83	104.92	111.28
1	L4	233	SER	N-CA-C	5.83	117.64	111.28
2	M1	208	PRO	N-CA-CB	5.83	109.37	103.25
1	L5	380	PRO	N-CA-C	-5.83	105.78	113.65
2	M6	65	LEU	N-CA-C	-5.83	104.93	111.28
1	L2	311	ILE	N-CA-C	-5.83	104.68	110.62
2	M2	208	PRO	N-CA-CB	5.83	109.37	103.25
1	L2	397	PRO	N-CA-CB	5.82	109.73	103.33
2	M2	187	HIS	N-CA-C	5.82	118.01	108.52
1	L2	130	LEU	N-CA-C	-5.82	104.94	111.28
1	L3	130	LEU	N-CA-C	-5.82	104.94	111.28
1	L3	233	SER	N-CA-C	5.81	117.62	111.28
1	L4	397	PRO	N-CA-CB	5.81	109.72	103.33
2	M5	187	HIS	N-CA-C	5.81	117.99	108.52
1	L3	331	PRO	N-CA-CB	5.81	109.94	103.44
2	M3	208	PRO	N-CA-CB	5.81	109.35	103.25
2	M6	208	PRO	N-CA-CB	5.81	109.35	103.25
1	L1	380	PRO	N-CA-C	-5.80	105.81	113.65
1	L2	331	PRO	N-CA-CB	5.80	109.94	103.44
1	L5	130	LEU	N-CA-C	-5.80	104.95	111.28
1	L4	380	PRO	N-CA-C	-5.80	105.82	113.65
1	L4	37	PRO	N-CA-C	-5.80	105.82	113.65
1	L5	397	PRO	N-CA-CB	5.79	109.70	103.33
1	L6	380	PRO	N-CA-C	-5.79	105.83	113.65
2	M5	257	MET	N-CA-C	-5.79	105.06	111.71
2	M1	257	MET	N-CA-C	-5.78	105.06	111.71
1	L3	380	PRO	N-CA-C	-5.78	105.85	113.65
1	L4	373	GLY	N-CA-C	-5.78	105.79	112.73
1	L5	331	PRO	N-CA-CB	5.78	109.92	103.44
2	M5	208	PRO	N-CA-CB	5.78	109.32	103.25
2	M2	257	MET	N-CA-C	-5.78	105.06	111.71
1	L3	397	PRO	N-CA-CB	5.78	109.68	103.33
1	L6	397	PRO	N-CA-CB	5.78	109.68	103.33
1	L6	139	LEU	N-CA-C	-5.77	104.99	111.28
1	L1	331	PRO	N-CA-CB	5.77	109.90	103.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L1	397	PRO	N-CA-CB	5.77	109.67	103.33
1	L2	380	PRO	N-CA-C	-5.77	105.86	113.65
2	M3	257	MET	N-CA-C	-5.77	105.08	111.71
1	L2	37	PRO	N-CA-C	-5.76	105.87	113.65
1	L4	331	PRO	N-CA-CB	5.76	109.90	103.44
1	L2	282	ILE	N-CA-C	5.76	116.50	110.62
1	L3	373	GLY	N-CA-C	-5.76	105.82	112.73
1	L6	37	PRO	N-CA-C	-5.76	105.87	113.65
1	L6	373	GLY	N-CA-C	-5.76	105.82	112.73
2	M6	257	MET	N-CA-C	-5.76	105.09	111.71
1	L1	37	PRO	N-CA-C	-5.76	105.88	113.65
2	M1	377	GLY	N-CA-C	-5.76	105.40	112.77
2	M3	203	PHE	N-CA-C	-5.75	105.01	111.28
1	L5	139	LEU	N-CA-C	-5.75	105.01	111.28
1	L5	373	GLY	N-CA-C	-5.75	105.83	112.73
1	L1	139	LEU	N-CA-C	-5.75	105.01	111.28
2	M1	203	PHE	N-CA-C	-5.75	105.02	111.28
1	L2	139	LEU	N-CA-C	-5.75	105.02	111.28
1	L3	139	LEU	N-CA-C	-5.75	105.02	111.28
1	L5	37	PRO	N-CA-C	-5.75	105.89	113.65
1	L6	331	PRO	N-CA-CB	5.75	109.88	103.44
2	M2	203	PHE	N-CA-C	-5.74	105.02	111.28
1	L2	373	GLY	N-CA-C	-5.74	105.85	112.73
1	L2	312	ALA	N-CA-C	-5.74	105.03	111.28
1	L1	373	GLY	N-CA-C	-5.73	105.85	112.73
2	M4	257	MET	N-CA-C	-5.73	105.12	111.71
2	M6	377	GLY	N-CA-C	-5.73	105.43	112.77
2	M4	203	PHE	N-CA-C	-5.73	105.03	111.28
2	M2	377	GLY	N-CA-C	-5.73	105.44	112.77
1	L4	139	LEU	N-CA-C	-5.73	105.04	111.28
2	M6	203	PHE	N-CA-C	-5.72	105.04	111.28
1	L5	312	ALA	N-CA-C	-5.72	105.04	111.28
2	M5	203	PHE	N-CA-C	-5.71	105.06	111.28
1	L1	282	ILE	N-CA-C	5.70	116.44	110.62
1	L1	394	THR	N-CA-C	-5.70	105.06	111.28
2	M3	377	GLY	N-CA-C	-5.70	105.47	112.77
2	M5	377	GLY	N-CA-C	-5.70	105.47	112.77
1	L3	312	ALA	N-CA-C	-5.70	105.07	111.28
2	M4	377	GLY	N-CA-C	-5.70	105.48	112.77
1	L6	312	ALA	N-CA-C	-5.69	105.07	111.28
1	L5	394	THR	N-CA-C	-5.69	105.08	111.28
1	L1	312	ALA	N-CA-C	-5.69	105.08	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L3	282	ILE	N-CA-C	5.69	116.42	110.62
2	M1	321	LEU	N-CA-C	-5.68	105.09	111.28
1	L4	312	ALA	N-CA-C	-5.68	105.09	111.28
1	L3	394	THR	N-CA-C	-5.68	105.09	111.28
1	L2	394	THR	N-CA-C	-5.67	105.10	111.28
1	L4	394	THR	N-CA-C	-5.67	105.09	111.28
1	L5	282	ILE	N-CA-C	5.67	116.40	110.62
2	M2	321	LEU	N-CA-C	-5.66	105.11	111.28
2	M6	321	LEU	N-CA-C	-5.66	105.11	111.28
2	M3	321	LEU	N-CA-C	-5.66	105.11	111.28
1	L6	394	THR	N-CA-C	-5.66	105.11	111.28
2	M5	321	LEU	N-CA-C	-5.66	105.12	111.28
2	M4	321	LEU	N-CA-C	-5.65	105.12	111.28
1	L4	282	ILE	N-CA-C	5.65	116.38	110.62
1	L6	282	ILE	N-CA-C	5.65	116.38	110.62
2	M4	75	LEU	N-CA-C	5.64	117.43	111.28
2	M1	75	LEU	N-CA-C	5.64	117.43	111.28
1	L6	370	ARG	N-CA-C	-5.64	105.04	111.07
1	L5	317	SER	N-CA-C	-5.63	105.14	111.28
1	L3	317	SER	N-CA-C	-5.63	105.14	111.28
1	L4	317	SER	N-CA-C	-5.63	105.15	111.28
1	L4	370	ARG	N-CA-C	-5.63	105.05	111.07
1	L2	397	PRO	N-CA-C	-5.62	105.71	113.53
1	L5	370	ARG	N-CA-C	-5.62	105.05	111.07
1	L1	397	PRO	N-CA-C	-5.62	105.72	113.53
2	M3	75	LEU	N-CA-C	5.62	117.41	111.28
1	L2	317	SER	N-CA-C	-5.62	105.16	111.28
1	L3	370	ARG	N-CA-C	-5.62	105.06	111.07
2	M6	75	LEU	N-CA-C	5.62	117.40	111.28
1	L3	254	ALA	CA-C-N	-5.61	112.81	120.44
1	L3	254	ALA	C-N-CA	-5.61	112.81	120.44
1	L3	397	PRO	N-CA-C	-5.61	105.73	113.53
1	L5	185	ILE	N-CA-C	-5.61	104.90	110.62
1	L2	370	ARG	N-CA-C	-5.61	105.07	111.07
1	L1	317	SER	N-CA-C	-5.60	105.17	111.28
2	M2	75	LEU	N-CA-C	5.59	117.38	111.28
1	L6	317	SER	N-CA-C	-5.59	105.18	111.28
1	L1	370	ARG	N-CA-C	-5.59	105.09	111.07
1	L5	397	PRO	N-CA-C	-5.59	105.77	113.53
1	L5	254	ALA	CA-C-N	-5.58	112.85	120.44
1	L5	254	ALA	C-N-CA	-5.58	112.85	120.44
1	L6	254	ALA	CA-C-N	-5.58	112.85	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L6	254	ALA	C-N-CA	-5.58	112.85	120.44
1	L1	185	ILE	N-CA-C	-5.58	104.93	110.62
1	L3	185	ILE	N-CA-C	-5.57	104.93	110.62
1	L6	397	PRO	N-CA-C	-5.57	105.78	113.53
1	L2	185	ILE	N-CA-C	-5.57	104.94	110.62
1	L4	185	ILE	N-CA-C	-5.57	104.94	110.62
2	M5	75	LEU	N-CA-C	5.57	117.35	111.28
1	L4	397	PRO	N-CA-C	-5.57	105.79	113.53
1	L2	254	ALA	CA-C-N	-5.56	112.87	120.44
1	L2	254	ALA	C-N-CA	-5.56	112.87	120.44
1	L1	254	ALA	CA-C-N	-5.56	112.88	120.44
1	L1	254	ALA	C-N-CA	-5.56	112.88	120.44
1	L4	254	ALA	CA-C-N	-5.55	112.89	120.44
1	L4	254	ALA	C-N-CA	-5.55	112.89	120.44
1	L3	37	PRO	N-CA-C	-5.55	105.82	113.53
1	L6	185	ILE	N-CA-C	-5.53	104.98	110.62
2	M1	339	SER	N-CA-C	5.50	117.21	108.79
2	M1	353	PRO	N-CA-CB	5.50	109.60	103.44
2	M3	353	PRO	N-CA-CB	5.50	109.60	103.44
2	M2	353	PRO	N-CA-CB	5.50	109.60	103.44
2	M5	254	THR	N-CA-C	5.50	117.39	108.26
2	M3	339	SER	N-CA-C	5.49	117.19	108.79
2	M5	339	SER	N-CA-C	5.48	117.18	108.79
2	M2	339	SER	N-CA-C	5.48	117.17	108.79
2	M6	353	PRO	N-CA-CB	5.48	109.57	103.44
2	M2	254	THR	N-CA-C	5.47	117.34	108.26
1	L3	148	LEU	N-CA-C	5.47	117.24	111.28
2	M3	254	THR	N-CA-C	5.47	117.34	108.26
2	M4	339	SER	N-CA-C	5.47	117.16	108.79
1	L5	148	LEU	N-CA-C	5.47	117.24	111.28
2	M6	339	SER	N-CA-C	5.47	117.16	108.79
2	M1	254	THR	N-CA-C	5.46	117.33	108.26
1	L2	148	LEU	N-CA-C	5.46	117.23	111.28
2	M4	254	THR	N-CA-C	5.45	117.31	108.26
1	L6	148	LEU	N-CA-C	5.45	117.22	111.28
2	M6	254	THR	N-CA-C	5.44	117.30	108.26
2	M4	353	PRO	N-CA-CB	5.44	109.53	103.44
1	L4	243	PRO	N-CA-C	-5.44	105.97	113.53
2	M5	353	PRO	N-CA-CB	5.44	109.53	103.44
1	L2	243	PRO	N-CA-C	-5.44	105.97	113.53
1	L1	148	LEU	N-CA-C	5.43	117.20	111.28
1	L3	243	PRO	N-CA-C	-5.43	105.98	113.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L5	243	PRO	N-CA-C	-5.43	105.99	113.53
2	M3	227	GLY	CA-C-N	5.42	131.47	121.70
2	M3	227	GLY	C-N-CA	5.42	131.47	121.70
1	L4	148	LEU	N-CA-C	5.42	117.19	111.28
2	M5	133	ILE	N-CA-C	5.42	115.87	110.23
1	L1	243	PRO	N-CA-C	-5.42	105.99	113.53
1	L6	243	PRO	N-CA-C	-5.42	106.00	113.53
2	M1	227	GLY	CA-C-N	5.41	131.43	121.70
2	M1	227	GLY	C-N-CA	5.41	131.43	121.70
2	M5	227	GLY	CA-C-N	5.41	131.43	121.70
2	M5	227	GLY	C-N-CA	5.41	131.43	121.70
1	L1	396	MET	N-CA-C	-5.40	105.49	113.16
2	M5	358	TRP	N-CA-C	-5.40	105.39	111.28
2	M6	227	GLY	CA-C-N	5.40	131.42	121.70
2	M6	227	GLY	C-N-CA	5.40	131.42	121.70
2	M4	227	GLY	CA-C-N	5.40	131.42	121.70
2	M4	227	GLY	C-N-CA	5.40	131.42	121.70
2	M2	227	GLY	CA-C-N	5.39	131.41	121.70
2	M2	227	GLY	C-N-CA	5.39	131.41	121.70
2	M6	133	ILE	N-CA-C	5.39	115.84	110.23
1	L5	396	MET	N-CA-C	-5.38	105.52	113.16
1	L2	396	MET	N-CA-C	-5.38	105.52	113.16
1	L6	181	LEU	N-CA-C	-5.38	104.46	111.02
1	L2	181	LEU	N-CA-C	-5.38	104.46	111.02
2	M2	358	TRP	N-CA-C	-5.37	105.42	111.28
1	L4	181	LEU	N-CA-C	-5.37	104.47	111.02
1	L1	181	LEU	N-CA-C	-5.37	104.47	111.02
2	M3	358	TRP	N-CA-C	-5.37	105.43	111.28
1	L3	396	MET	N-CA-C	-5.37	105.54	113.16
1	L6	396	MET	N-CA-C	-5.36	105.55	113.16
1	L5	421	THR	N-CA-C	-5.36	105.55	111.71
1	L5	64	HIS	N-CA-C	-5.36	99.39	110.80
2	M2	133	ILE	N-CA-C	5.35	115.80	110.23
1	L6	64	HIS	N-CA-C	-5.35	99.40	110.80
1	L6	421	THR	N-CA-C	-5.35	105.56	111.71
1	L1	50	TYR	N-CA-C	-5.35	105.53	111.36
1	L4	64	HIS	N-CA-C	-5.35	99.41	110.80
2	M6	358	TRP	N-CA-C	-5.35	105.45	111.28
2	M4	133	ILE	N-CA-C	5.35	115.79	110.23
1	L5	181	LEU	N-CA-C	-5.35	104.50	111.02
1	L6	452	LEU	O-C-N	5.35	127.79	122.12
1	L1	421	THR	N-CA-C	-5.34	105.56	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L2	64	HIS	N-CA-C	-5.34	99.42	110.80
1	L3	64	HIS	N-CA-C	-5.34	99.42	110.80
1	L1	88	PHE	N-CA-C	5.34	117.18	111.36
1	L4	421	THR	N-CA-C	-5.34	105.57	111.71
1	L2	421	THR	N-CA-C	-5.34	105.57	111.71
1	L5	227	LEU	CB-CA-C	-5.34	110.44	116.63
1	L1	64	HIS	N-CA-C	-5.33	99.44	110.80
1	L4	396	MET	N-CA-C	-5.33	105.59	113.16
1	L3	421	THR	N-CA-C	-5.33	105.58	111.71
2	M3	133	ILE	N-CA-C	5.33	115.77	110.23
1	L6	88	PHE	N-CA-C	5.33	117.17	111.36
2	M6	443	PRO	N-CA-C	-5.33	106.12	113.53
2	M4	358	TRP	N-CA-C	-5.33	105.47	111.28
2	M1	358	TRP	N-CA-C	-5.33	105.47	111.28
1	L5	88	PHE	N-CA-C	5.33	117.17	111.36
2	M1	443	PRO	N-CA-C	-5.33	106.13	113.53
1	L4	88	PHE	N-CA-C	5.33	117.17	111.36
1	L3	452	LEU	O-C-N	5.32	127.76	122.12
1	L3	181	LEU	N-CA-C	-5.32	104.53	111.02
1	L1	227	LEU	CB-CA-C	-5.32	110.46	116.63
1	L3	88	PHE	N-CA-C	5.32	117.15	111.36
1	L6	50	TYR	N-CA-C	-5.31	105.57	111.36
1	L4	227	LEU	CB-CA-C	-5.31	110.47	116.63
2	M2	443	PRO	N-CA-C	-5.31	106.15	113.53
2	M1	133	ILE	N-CA-C	5.31	115.75	110.23
1	L2	452	LEU	O-C-N	5.31	127.75	122.12
1	L5	50	TYR	N-CA-C	-5.30	105.58	111.36
1	L6	227	LEU	CB-CA-C	-5.30	110.48	116.63
2	M1	181	TYR	CA-C-N	5.30	131.67	121.54
2	M1	181	TYR	C-N-CA	5.30	131.67	121.54
2	M4	443	PRO	N-CA-C	-5.30	106.16	113.53
2	M6	181	TYR	CA-C-N	5.30	131.67	121.54
2	M6	181	TYR	C-N-CA	5.30	131.67	121.54
1	L2	50	TYR	N-CA-C	-5.30	105.58	111.36
1	L2	227	LEU	CB-CA-C	-5.30	110.49	116.63
1	L3	50	TYR	N-CA-C	-5.30	105.59	111.36
2	M5	443	PRO	N-CA-C	-5.30	106.17	113.53
2	M3	181	TYR	CA-C-N	5.29	131.65	121.54
2	M3	181	TYR	C-N-CA	5.29	131.65	121.54
1	L4	50	TYR	N-CA-C	-5.29	105.59	111.36
1	L5	452	LEU	O-C-N	5.29	127.73	122.12
1	L4	452	LEU	O-C-N	5.29	127.72	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L1	452	LEU	O-C-N	5.29	127.72	122.12
2	M6	398	VAL	N-CA-C	-5.28	105.23	110.62
2	M2	181	TYR	CA-C-N	5.28	131.62	121.54
2	M2	181	TYR	C-N-CA	5.28	131.62	121.54
2	M1	398	VAL	N-CA-C	-5.27	105.24	110.62
2	M5	181	TYR	CA-C-N	5.27	131.61	121.54
2	M5	181	TYR	C-N-CA	5.27	131.61	121.54
1	L3	227	LEU	CB-CA-C	-5.27	110.52	116.63
2	M3	398	VAL	N-CA-C	-5.26	105.26	110.62
2	M4	181	TYR	CA-C-N	5.26	131.59	121.54
2	M4	181	TYR	C-N-CA	5.26	131.59	121.54
1	L2	88	PHE	N-CA-C	5.26	117.09	111.36
2	M3	443	PRO	N-CA-C	-5.25	106.22	113.53
1	L3	318	GLN	N-CA-C	-5.25	105.56	111.28
1	L4	318	GLN	N-CA-C	-5.25	105.56	111.28
2	M5	398	VAL	N-CA-C	-5.24	105.27	110.62
2	M2	4	TYR	N-CA-C	-5.24	105.57	111.28
1	L1	318	GLN	N-CA-C	-5.23	105.58	111.28
1	L2	318	GLN	N-CA-C	-5.23	105.58	111.28
2	M2	398	VAL	N-CA-C	-5.23	105.29	110.62
2	M4	398	VAL	N-CA-C	-5.22	105.30	110.62
1	L5	300	CYS	N-CA-C	-5.21	105.60	111.28
1	L6	300	CYS	N-CA-C	-5.21	105.60	111.28
2	M4	4	TYR	N-CA-C	-5.21	105.60	111.28
1	L2	138	ILE	N-CA-C	-5.20	105.31	110.62
1	L5	318	GLN	N-CA-C	-5.20	105.61	111.28
1	L2	304	GLN	N-CA-C	-5.20	105.61	111.28
1	L3	138	ILE	N-CA-C	-5.20	105.31	110.62
1	L4	138	ILE	N-CA-C	-5.20	105.32	110.62
1	L1	138	ILE	N-CA-C	-5.20	105.32	110.62
2	M3	4	TYR	N-CA-C	-5.20	105.62	111.28
1	L6	318	GLN	N-CA-C	-5.20	105.62	111.28
1	L6	242	LEU	N-CA-C	-5.19	105.79	113.16
2	M1	4	TYR	N-CA-C	-5.19	105.63	111.28
1	L6	138	ILE	N-CA-C	-5.18	105.33	110.62
2	M3	221	VAL	N-CA-C	-5.18	105.34	110.62
1	L4	300	CYS	N-CA-C	-5.18	105.64	111.28
1	L6	420	ASN	N-CA-C	-5.18	105.63	111.28
1	L3	300	CYS	N-CA-C	-5.18	105.64	111.28
1	L6	96	MET	N-CA-C	-5.18	105.64	111.28
1	L4	242	LEU	N-CA-C	-5.18	105.81	113.16
2	M6	4	TYR	N-CA-C	-5.18	105.64	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L4	96	MET	N-CA-C	-5.17	105.64	111.28
2	M5	4	TYR	N-CA-C	-5.17	105.64	111.28
2	M3	284	SER	N-CA-C	-5.17	105.64	111.28
1	L2	242	LEU	N-CA-C	-5.17	105.83	113.16
2	M6	221	VAL	N-CA-C	-5.17	105.35	110.62
1	L6	304	GLN	N-CA-C	-5.16	105.65	111.28
1	L1	300	CYS	N-CA-C	-5.16	105.66	111.28
1	L1	304	GLN	N-CA-C	-5.16	105.66	111.28
1	L2	300	CYS	N-CA-C	-5.16	105.66	111.28
1	L3	97	PHE	N-CA-C	-5.16	105.66	111.28
1	L5	138	ILE	N-CA-C	-5.16	105.36	110.62
1	L2	96	MET	N-CA-C	-5.15	105.66	111.28
1	L3	96	MET	N-CA-C	-5.15	105.66	111.28
1	L4	304	GLN	N-CA-C	-5.15	105.66	111.28
2	M4	284	SER	N-CA-C	-5.15	105.66	111.28
2	M1	221	VAL	N-CA-C	-5.15	105.37	110.62
1	L5	242	LEU	N-CA-C	-5.15	105.85	113.16
1	L3	242	LEU	N-CA-C	-5.15	105.85	113.16
2	M5	284	SER	N-CA-C	-5.15	105.67	111.28
1	L1	96	MET	N-CA-C	-5.14	105.67	111.28
1	L1	97	PHE	N-CA-C	-5.14	105.67	111.28
2	M6	284	SER	N-CA-C	-5.14	105.67	111.28
1	L4	420	ASN	N-CA-C	-5.14	105.68	111.28
2	M1	284	SER	N-CA-C	-5.14	105.68	111.28
1	L1	242	LEU	N-CA-C	-5.14	105.86	113.16
1	L5	420	ASN	N-CA-C	-5.14	105.68	111.28
1	L3	94	SER	N-CA-C	-5.13	105.68	111.28
1	L6	97	PHE	N-CA-C	-5.13	105.68	111.28
1	L5	40	TYR	N-CA-C	-5.13	105.87	113.16
2	M5	221	VAL	N-CA-C	-5.13	105.39	110.62
1	L1	94	SER	N-CA-C	-5.13	105.69	111.28
1	L1	40	TYR	N-CA-C	-5.12	105.88	113.16
1	L5	96	MET	N-CA-C	-5.12	105.69	111.28
1	L3	304	GLN	N-CA-C	-5.12	105.70	111.28
2	M4	221	VAL	N-CA-C	-5.12	105.39	110.62
1	L2	94	SER	N-CA-C	-5.12	105.70	111.28
2	M3	180	GLN	CB-CA-C	-5.12	110.66	116.54
2	M5	82	HIS	N-CA-C	5.12	116.94	111.36
1	L5	97	PHE	N-CA-C	-5.12	105.70	111.28
1	L2	97	PHE	N-CA-C	-5.12	105.70	111.28
1	L5	94	SER	N-CA-C	-5.11	105.71	111.28
1	L6	40	TYR	N-CA-C	-5.11	105.90	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L4	97	PHE	N-CA-C	-5.11	105.71	111.28
1	L3	492	ILE	O-C-N	5.11	123.70	120.07
2	M3	82	HIS	N-CA-C	5.11	116.93	111.36
1	L1	420	ASN	N-CA-C	-5.11	105.71	111.28
2	M2	221	VAL	N-CA-C	-5.11	105.41	110.62
2	M1	180	GLN	CB-CA-C	-5.11	110.67	116.54
2	M2	82	HIS	N-CA-C	5.11	116.92	111.36
1	L4	40	TYR	N-CA-C	-5.11	105.91	113.16
1	L4	94	SER	N-CA-C	-5.10	105.72	111.28
1	L5	304	GLN	N-CA-C	-5.10	105.72	111.28
2	M6	180	GLN	CB-CA-C	-5.10	110.68	116.54
1	L6	94	SER	N-CA-C	-5.10	105.72	111.28
1	L3	40	TYR	N-CA-C	-5.09	105.93	113.16
1	L3	420	ASN	N-CA-C	-5.09	105.73	111.28
2	M4	180	GLN	CB-CA-C	-5.09	110.68	116.54
2	M2	284	SER	N-CA-C	-5.09	105.73	111.28
2	M4	82	HIS	N-CA-C	5.09	116.91	111.36
2	M6	390	ASN	N-CA-C	5.09	116.83	111.28
1	L6	92	TYR	N-CA-C	-5.09	105.73	111.28
1	L2	420	ASN	N-CA-C	-5.09	105.73	111.28
1	L4	492	ILE	O-C-N	5.09	123.68	120.07
1	L5	92	TYR	N-CA-C	-5.09	105.73	111.28
2	M1	366	ASN	N-CA-C	-5.09	105.73	111.28
2	M3	366	ASN	N-CA-C	-5.09	105.74	111.28
2	M5	366	ASN	N-CA-C	-5.08	105.74	111.28
2	M6	82	HIS	N-CA-C	5.08	116.90	111.36
1	L3	92	TYR	N-CA-C	-5.08	105.75	111.28
1	L2	40	TYR	N-CA-C	-5.08	105.95	113.16
1	L2	365	ASP	N-CA-C	5.08	116.50	111.07
2	M2	448	THR	N-CA-C	-5.08	105.87	111.71
1	L3	351	CYS	N-CA-C	5.08	118.39	111.39
2	M5	180	GLN	CB-CA-C	-5.08	110.70	116.54
2	M4	366	ASN	N-CA-C	-5.07	105.75	111.28
1	L6	492	ILE	O-C-N	5.07	123.67	120.07
1	L2	492	ILE	O-C-N	5.07	123.67	120.07
1	L5	365	ASP	N-CA-C	5.07	116.50	111.07
2	M5	101	SER	N-CA-C	-5.07	105.75	111.28
1	L5	351	CYS	N-CA-C	5.07	118.39	111.39
1	L1	209	ILE	O-C-N	5.07	126.79	121.87
1	L1	241	TRP	N-CA-C	5.07	116.80	111.28
1	L2	241	TRP	N-CA-C	5.07	116.81	111.28
1	L3	365	ASP	N-CA-C	5.07	116.49	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L1	92	TYR	N-CA-C	-5.07	105.76	111.28
1	L4	244	SER	N-CA-C	-5.07	105.76	111.28
1	L1	74	TRP	N-CA-C	-5.06	100.65	108.90
2	M1	82	HIS	N-CA-C	5.06	116.88	111.36
1	L4	74	TRP	N-CA-C	-5.06	100.64	108.90
1	L1	351	CYS	N-CA-C	5.06	118.38	111.39
2	M1	390	ASN	N-CA-C	5.06	116.80	111.28
1	L2	351	CYS	N-CA-C	5.06	118.38	111.39
2	M2	366	ASN	N-CA-C	-5.06	105.76	111.28
1	L3	241	TRP	N-CA-C	5.06	116.80	111.28
1	L6	351	CYS	N-CA-C	5.06	118.37	111.39
2	M6	366	ASN	N-CA-C	-5.06	105.77	111.28
2	M2	180	GLN	CB-CA-C	-5.06	110.72	116.54
1	L4	92	TYR	N-CA-C	-5.06	105.77	111.28
1	L4	241	TRP	N-CA-C	5.06	116.79	111.28
1	L1	492	ILE	O-C-N	5.05	123.66	120.07
2	M3	101	SER	N-CA-C	-5.05	105.77	111.28
1	L1	365	ASP	N-CA-C	5.05	116.48	111.07
1	L6	244	SER	N-CA-C	-5.05	105.77	111.28
1	L2	92	TYR	N-CA-C	-5.05	105.78	111.28
2	M4	448	THR	N-CA-C	-5.05	105.90	111.71
2	M4	101	SER	N-CA-C	-5.05	105.78	111.28
1	L6	74	TRP	N-CA-C	-5.05	100.67	108.90
1	L6	365	ASP	N-CA-C	5.05	116.47	111.07
2	M1	77	LEU	N-CA-C	-5.04	105.78	111.28
2	M2	101	SER	N-CA-C	-5.04	105.78	111.28
1	L4	351	CYS	N-CA-C	5.04	118.35	111.39
1	L5	244	SER	N-CA-C	-5.04	105.78	111.28
1	L3	74	TRP	N-CA-C	-5.04	100.68	108.90
2	M6	101	SER	N-CA-C	-5.04	105.78	111.28
2	M1	448	THR	N-CA-C	-5.04	105.91	111.71
2	M6	448	THR	N-CA-C	-5.04	105.92	111.71
1	L4	365	ASP	N-CA-C	5.04	116.46	111.07
1	L1	244	SER	N-CA-C	-5.03	105.80	111.28
2	M2	390	ASN	N-CA-C	5.03	116.76	111.28
1	L3	244	SER	N-CA-C	-5.03	105.80	111.28
2	M4	390	ASN	N-CA-C	5.03	116.77	111.28
1	L5	64	HIS	CA-C-N	-5.03	111.93	121.54
1	L5	64	HIS	C-N-CA	-5.03	111.93	121.54
1	L1	64	HIS	CA-C-N	-5.03	111.93	121.54
1	L1	64	HIS	C-N-CA	-5.03	111.93	121.54
1	L4	154	GLY	N-CA-C	-5.03	106.69	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L2	74	TRP	N-CA-C	-5.03	100.70	108.90
1	L2	172	ALA	N-CA-C	-5.03	105.80	111.28
1	L3	154	GLY	N-CA-C	-5.03	106.70	112.73
1	L5	74	TRP	N-CA-C	-5.03	100.71	108.90
2	M5	390	ASN	N-CA-C	5.03	116.76	111.28
2	M1	101	SER	N-CA-C	-5.02	105.80	111.28
2	M1	402	ILE	N-CA-C	-5.02	105.50	110.62
1	L2	244	SER	N-CA-C	-5.02	105.81	111.28
1	L6	64	HIS	CA-C-N	-5.02	111.95	121.54
1	L6	64	HIS	C-N-CA	-5.02	111.95	121.54
2	M2	148	TYR	N-CA-C	-5.02	105.81	111.28
1	L2	64	HIS	CA-C-N	-5.02	111.95	121.54
1	L2	64	HIS	C-N-CA	-5.02	111.95	121.54
2	M5	148	TYR	N-CA-C	-5.02	105.81	111.28
2	M1	311	GLY	N-CA-C	-5.02	106.71	112.73
1	L3	64	HIS	CA-C-N	-5.02	111.96	121.54
1	L3	64	HIS	C-N-CA	-5.02	111.96	121.54
1	L5	172	ALA	N-CA-C	-5.02	105.81	111.28
1	L5	241	TRP	N-CA-C	5.02	116.75	111.28
1	L5	492	ILE	O-C-N	5.02	123.63	120.07
2	M5	311	GLY	N-CA-C	-5.02	106.71	112.73
1	L2	154	GLY	N-CA-C	-5.01	106.71	112.73
2	M2	402	ILE	N-CA-C	-5.01	105.50	110.62
2	M3	40	LEU	N-CA-C	-5.01	105.81	111.28
2	M5	448	THR	N-CA-C	-5.01	105.94	111.71
2	M1	148	TYR	N-CA-C	-5.01	105.82	111.28
1	L6	241	TRP	N-CA-C	5.01	116.74	111.28
1	L6	154	GLY	N-CA-C	-5.01	106.72	112.73
2	M6	40	LEU	N-CA-C	-5.01	105.82	111.28
1	L1	154	GLY	N-CA-C	-5.01	106.72	112.73
1	L3	172	ALA	N-CA-C	-5.01	105.82	111.28
2	M3	77	LEU	N-CA-C	-5.01	105.82	111.28
2	M3	311	GLY	N-CA-C	-5.01	106.72	112.73
1	L4	209	ILE	O-C-N	5.01	126.73	121.87
2	M6	311	GLY	N-CA-C	-5.01	106.72	112.73
1	L4	64	HIS	CA-C-N	-5.00	111.98	121.54
1	L4	64	HIS	C-N-CA	-5.00	111.98	121.54
2	M4	220	HIS	N-CA-C	-5.00	105.83	111.28
2	M4	311	GLY	N-CA-C	-5.00	106.72	112.73
2	M5	77	LEU	N-CA-C	-5.00	105.83	111.28

There are no chirality outliers.

All (30) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
14	BA	533	UNK	Peptide,Mainchain
14	BA	586	UNK	Mainchain
14	BB	533	UNK	Peptide,Mainchain
14	BB	586	UNK	Mainchain
14	BC	533	UNK	Peptide,Mainchain
14	BC	586	UNK	Mainchain
14	BD	533	UNK	Peptide,Mainchain
14	BD	586	UNK	Mainchain
14	BE	533	UNK	Peptide,Mainchain
14	BE	586	UNK	Mainchain
14	BF	533	UNK	Peptide,Mainchain
14	BF	586	UNK	Mainchain
1	L1	133	LEU	Peptide
1	L1	366	GLU	Peptide
1	L2	133	LEU	Peptide
1	L2	366	GLU	Peptide
1	L3	133	LEU	Peptide
1	L3	366	GLU	Peptide
1	L4	133	LEU	Peptide
1	L4	366	GLU	Peptide
1	L5	133	LEU	Peptide
1	L5	366	GLU	Peptide
1	L6	133	LEU	Peptide
1	L6	366	GLU	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L1	2440	0	1091	219	0
1	L2	2440	0	1091	224	0
1	L3	2440	0	1091	223	0
1	L4	2440	0	1091	223	0
1	L5	2440	0	1091	225	0
1	L6	2440	0	1091	218	0
2	M1	2179	0	947	191	0
2	M2	2179	0	947	197	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	M3	2179	0	947	194	0
2	M4	2179	0	947	194	0
2	M5	2179	0	947	188	0
2	M6	2179	0	947	195	0
3	f1	150	0	33	7	0
3	f2	150	0	33	7	0
3	f3	150	0	33	7	0
3	f4	150	0	33	7	0
3	f5	150	0	33	7	0
3	f6	150	0	33	7	0
3	h1	150	0	32	8	0
3	h2	150	0	32	8	0
3	h3	150	0	32	8	0
3	h4	150	0	32	7	0
3	h5	150	0	32	8	0
3	h6	150	0	32	8	0
3	i1	150	0	33	14	0
3	i2	150	0	33	14	0
3	i3	150	0	33	13	0
3	i4	150	0	33	14	0
3	i5	150	0	33	13	0
3	i6	150	0	33	14	0
4	g1	110	0	24	9	0
4	g2	110	0	24	9	0
4	g3	110	0	24	9	0
4	g4	110	0	24	10	0
4	g5	110	0	24	10	0
4	g6	110	0	24	9	0
5	j1	140	0	33	9	0
5	j2	140	0	33	9	0
5	j3	140	0	33	9	0
5	j4	140	0	33	9	0
5	j5	140	0	33	9	0
5	j6	140	0	33	9	0
5	k1	140	0	30	3	0
5	k2	140	0	30	3	0
5	k3	140	0	30	3	0
5	k4	140	0	30	3	0
5	k5	140	0	30	3	0
5	k6	140	0	30	3	0
5	p1	140	0	30	4	0
5	p2	140	0	30	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	p3	140	0	30	4	0
5	p4	140	0	30	4	0
5	p5	140	0	30	4	0
5	p6	140	0	30	4	0
5	s1	140	0	31	10	0
5	s2	140	0	31	10	0
5	s3	140	0	31	11	0
5	s4	140	0	31	11	0
5	s5	140	0	31	11	0
5	s6	140	0	31	10	0
6	l1	65	0	15	3	0
6	l2	65	0	15	3	0
6	l3	65	0	15	3	0
6	l4	65	0	15	3	0
6	l5	65	0	15	3	0
6	l6	65	0	15	2	0
7	U1	375	0	80	22	0
7	U2	375	0	80	21	0
7	U3	375	0	80	22	0
7	U4	375	0	80	21	0
7	U5	375	0	80	22	0
7	U6	375	0	80	21	0
8	n1	295	0	61	26	0
8	n2	295	0	61	26	0
8	n3	295	0	61	25	0
8	n4	295	0	61	27	0
8	n5	295	0	61	27	0
8	n6	295	0	61	24	0
9	o1	105	0	23	0	0
9	o2	105	0	23	0	0
9	o3	105	0	23	0	0
9	o4	105	0	23	0	0
9	o5	105	0	23	0	0
9	o6	105	0	23	0	0
10	t1	285	0	61	23	0
10	t2	285	0	61	22	0
10	t3	285	0	61	23	0
10	t4	285	0	61	24	0
10	t5	285	0	61	22	0
10	t6	285	0	61	22	0
11	u1	75	0	17	4	0
11	u2	75	0	17	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	u3	75	0	17	4	0
11	u4	75	0	17	4	0
11	u5	75	0	17	4	0
11	u6	75	0	17	4	0
12	v1	160	0	34	11	0
12	v2	160	0	34	11	0
12	v3	160	0	34	11	0
12	v4	160	0	34	11	0
12	v5	160	0	34	11	0
12	v6	160	0	34	11	0
13	w1	135	0	30	5	0
13	w2	135	0	29	5	0
13	w3	135	0	29	5	0
13	w4	135	0	29	5	0
13	w5	135	0	29	5	0
13	w6	135	0	29	5	0
14	BA	730	0	164	32	0
14	BB	730	0	164	31	0
14	BC	730	0	164	40	0
14	BD	730	0	164	41	0
14	BE	730	0	164	42	0
14	BF	730	0	164	41	0
All	All	47784	0	16609	3580	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 56.

All (3580) 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:L2:65:SER:CB	1:L2:67:GLN:H	1.26	1.49
1:L5:321:LEU:CB	1:L5:324:VAL:CB	1.91	1.48
1:L5:65:SER:CB	1:L5:67:GLN:H	1.26	1.48
14:BA:1609:UNK:CB	14:BA:1642:UNK:CB	1.92	1.47
1:L1:65:SER:CB	1:L1:67:GLN:H	1.26	1.47
1:L1:321:LEU:CB	1:L1:324:VAL:CB	1.91	1.47
1:L4:321:LEU:CB	1:L4:324:VAL:CB	1.91	1.47
14:BB:1609:UNK:CB	14:BB:1642:UNK:CB	1.92	1.46
14:BD:1609:UNK:CB	14:BD:1642:UNK:CB	1.92	1.46
1:L3:65:SER:CB	1:L3:67:GLN:H	1.26	1.46
14:BC:1609:UNK:CB	14:BC:1642:UNK:CB	1.92	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:65:SER:CB	1:L4:67:GLN:H	1.26	1.46
1:L2:321:LEU:CB	1:L2:324:VAL:CB	1.91	1.45
1:L3:321:LEU:CB	1:L3:324:VAL:CB	1.91	1.45
14:BF:1609:UNK:CB	14:BF:1642:UNK:CB	1.92	1.45
1:L6:321:LEU:CB	1:L6:324:VAL:CB	1.91	1.44
14:BE:1609:UNK:CB	14:BE:1642:UNK:CB	1.92	1.44
1:L6:65:SER:CB	1:L6:67:GLN:H	1.26	1.44
14:BC:1614:UNK:HA	14:BC:1617:UNK:CB	1.51	1.41
14:BD:1614:UNK:HA	14:BD:1617:UNK:CB	1.51	1.40
14:BF:1614:UNK:HA	14:BF:1617:UNK:CB	1.51	1.39
14:BA:1614:UNK:HA	14:BA:1617:UNK:CB	1.51	1.39
1:L2:247:GLU:HA	1:L2:251:PRO:CB	1.52	1.39
14:BB:1614:UNK:HA	14:BB:1617:UNK:CB	1.51	1.38
1:L3:247:GLU:HA	1:L3:251:PRO:CB	1.52	1.38
1:L1:247:GLU:HA	1:L1:251:PRO:CB	1.52	1.38
1:L4:247:GLU:HA	1:L4:251:PRO:CB	1.52	1.37
14:BE:1614:UNK:HA	14:BE:1617:UNK:CB	1.51	1.36
1:L5:247:GLU:HA	1:L5:251:PRO:CB	1.52	1.35
1:L6:247:GLU:HA	1:L6:251:PRO:CB	1.52	1.35
14:BC:1588:UNK:H	14:BF:547:UNK:CA	1.44	1.31
14:BC:1588:UNK:N	14:BF:547:UNK:HA	1.00	1.30
14:BC:1588:UNK:N	14:BF:547:UNK:CA	1.95	1.28
1:L4:65:SER:CB	1:L4:67:GLN:N	1.98	1.26
1:L2:65:SER:CB	1:L2:67:GLN:N	1.98	1.26
1:L5:65:SER:CB	1:L5:67:GLN:N	1.98	1.26
1:L1:65:SER:CB	1:L1:67:GLN:N	1.98	1.25
1:L6:65:SER:CB	1:L6:67:GLN:N	1.98	1.25
1:L3:65:SER:CB	1:L3:67:GLN:N	1.98	1.24
1:L3:225:LEU:HA	1:L3:229:ALA:CB	1.73	1.19
1:L1:161:LEU:HA	1:L1:162:LEU:C	1.65	1.19
1:L1:225:LEU:HA	1:L1:229:ALA:CB	1.73	1.18
1:L3:161:LEU:HA	1:L3:163:ILE:N	1.59	1.18
1:L5:225:LEU:HA	1:L5:229:ALA:CB	1.73	1.18
2:M1:58:SER:HA	2:M1:59:ASP:CB	1.71	1.17
2:M4:58:SER:HA	2:M4:59:ASP:CB	1.71	1.17
1:L6:161:LEU:HA	1:L6:163:ILE:N	1.59	1.17
1:L2:225:LEU:HA	1:L2:229:ALA:CB	1.73	1.17
1:L4:225:LEU:HA	1:L4:229:ALA:CB	1.73	1.17
1:L1:161:LEU:HA	1:L1:163:ILE:N	1.59	1.17
1:L2:161:LEU:HA	1:L2:163:ILE:N	1.59	1.17
1:L6:225:LEU:HA	1:L6:229:ALA:CB	1.73	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M2:58:SER:HA	2:M2:59:ASP:CB	1.71	1.16
1:L4:161:LEU:HA	1:L4:162:LEU:C	1.65	1.16
2:M3:58:SER:HA	2:M3:59:ASP:CB	1.71	1.14
1:L4:161:LEU:HA	1:L4:163:ILE:N	1.59	1.14
1:L5:161:LEU:HA	1:L5:163:ILE:N	1.59	1.14
2:M5:347:GLY:O	2:M5:351:LEU:N	1.81	1.14
2:M6:347:GLY:O	2:M6:351:LEU:N	1.81	1.14
2:M1:347:GLY:O	2:M1:351:LEU:N	1.81	1.13
1:L3:161:LEU:HA	1:L3:162:LEU:C	1.65	1.13
2:M5:58:SER:HA	2:M5:59:ASP:CB	1.71	1.13
2:M6:58:SER:HA	2:M6:59:ASP:CB	1.71	1.13
1:L2:161:LEU:HA	1:L2:162:LEU:C	1.65	1.12
2:M3:347:GLY:O	2:M3:351:LEU:N	1.81	1.12
2:M4:347:GLY:O	2:M4:351:LEU:N	1.81	1.12
2:M2:347:GLY:O	2:M2:351:LEU:N	1.81	1.12
1:L5:161:LEU:HA	1:L5:162:LEU:C	1.65	1.11
1:L1:435:ALA:HB3	14:BA:1644:UNK:HA	1.34	1.09
1:L6:161:LEU:HA	1:L6:162:LEU:C	1.65	1.09
1:L3:435:ALA:HB3	14:BC:1644:UNK:HA	1.35	1.09
1:L2:32:PHE:O	1:L2:36:LYS:N	1.87	1.08
1:L4:32:PHE:O	1:L4:36:LYS:N	1.87	1.08
1:L5:32:PHE:O	1:L5:36:LYS:N	1.87	1.08
1:L2:435:ALA:HB3	14:BB:1644:UNK:HA	1.35	1.08
7:U3:21:UNK:O	14:BC:1635:UNK:CB	2.02	1.07
3:h4:6:UNK:O	3:h4:10:UNK:CB	2.02	1.07
3:h1:6:UNK:O	3:h1:10:UNK:CB	2.02	1.07
7:U1:21:UNK:O	14:BA:1635:UNK:CB	2.02	1.07
1:L1:32:PHE:O	1:L1:36:LYS:N	1.87	1.07
1:L5:209:ILE:O	1:L5:212:LEU:N	1.88	1.07
3:h5:6:UNK:O	3:h5:10:UNK:CB	2.02	1.07
7:U5:21:UNK:O	14:BE:1635:UNK:CB	2.02	1.07
1:L2:209:ILE:O	1:L2:212:LEU:N	1.88	1.07
7:U2:21:UNK:O	14:BB:1635:UNK:CB	2.02	1.07
3:h3:6:UNK:O	3:h3:10:UNK:CB	2.02	1.07
3:h2:6:UNK:O	3:h2:10:UNK:CB	2.02	1.06
1:L3:29:MET:O	1:L3:33:ASN:N	1.88	1.06
7:U4:21:UNK:O	14:BD:1635:UNK:CB	2.02	1.06
1:L5:435:ALA:HB3	14:BE:1644:UNK:HA	1.35	1.06
1:L3:32:PHE:O	1:L3:36:LYS:N	1.87	1.06
1:L4:29:MET:O	1:L4:33:ASN:N	1.88	1.06
3:h6:6:UNK:O	3:h6:10:UNK:CB	2.02	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:435:ALA:HB3	14:BD:1644:UNK:HA	1.35	1.06
7:U6:21:UNK:O	14:BF:1635:UNK:CB	2.02	1.06
1:L3:209:ILE:O	1:L3:212:LEU:N	1.88	1.05
1:L3:297:THR:HA	1:L3:356:ILE:H	1.20	1.05
1:L6:29:MET:O	1:L6:33:ASN:N	1.88	1.05
1:L1:29:MET:O	1:L1:33:ASN:N	1.88	1.05
1:L1:33:ASN:O	1:L1:37:PRO:N	1.90	1.05
1:L1:209:ILE:O	1:L1:212:LEU:N	1.88	1.05
1:L4:209:ILE:O	1:L4:212:LEU:N	1.88	1.05
1:L4:297:THR:HA	1:L4:356:ILE:H	1.20	1.05
1:L5:33:ASN:O	1:L5:37:PRO:N	1.90	1.05
1:L2:29:MET:O	1:L2:33:ASN:N	1.88	1.05
1:L6:209:ILE:O	1:L6:212:LEU:N	1.88	1.05
1:L4:33:ASN:O	1:L4:37:PRO:N	1.90	1.05
1:L6:32:PHE:O	1:L6:36:LYS:N	1.87	1.05
1:L2:33:ASN:O	1:L2:37:PRO:N	1.90	1.04
14:BF:1614:UNK:CA	14:BF:1617:UNK:CB	2.36	1.04
1:L2:297:THR:HA	1:L2:356:ILE:H	1.20	1.04
1:L6:33:ASN:O	1:L6:37:PRO:N	1.90	1.04
1:L6:435:ALA:HB3	14:BF:1644:UNK:HA	1.35	1.04
14:BE:1614:UNK:CA	14:BE:1617:UNK:CB	2.36	1.04
1:L5:29:MET:O	1:L5:33:ASN:N	1.88	1.03
14:BA:1614:UNK:CA	14:BA:1617:UNK:CB	2.36	1.03
1:L2:181:LEU:O	1:L2:184:ARG:N	1.92	1.03
1:L3:33:ASN:O	1:L3:37:PRO:N	1.90	1.03
10:t1:2:UNK:O	10:t1:5:UNK:N	1.92	1.03
14:BD:1614:UNK:CA	14:BD:1617:UNK:CB	2.36	1.03
1:L6:181:LEU:O	1:L6:184:ARG:N	1.92	1.03
14:BB:1614:UNK:CA	14:BB:1617:UNK:CB	2.36	1.03
1:L4:28:MET:O	1:L4:32:PHE:N	1.91	1.03
1:L6:28:MET:O	1:L6:32:PHE:N	1.91	1.03
1:L1:181:LEU:O	1:L1:184:ARG:N	1.92	1.02
10:t6:2:UNK:O	10:t6:5:UNK:N	1.92	1.02
1:L1:28:MET:O	1:L1:32:PHE:N	1.91	1.02
1:L2:28:MET:O	1:L2:32:PHE:N	1.91	1.02
1:L3:181:LEU:O	1:L3:184:ARG:N	1.92	1.02
1:L3:28:MET:O	1:L3:32:PHE:N	1.91	1.02
14:BC:1614:UNK:CA	14:BC:1617:UNK:CB	2.36	1.02
1:L4:181:LEU:O	1:L4:184:ARG:N	1.92	1.02
1:L5:28:MET:O	1:L5:32:PHE:N	1.91	1.02
10:t5:2:UNK:O	10:t5:5:UNK:N	1.92	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L1:297:THR:HA	1:L1:356:ILE:H	1.20	1.01
10:t2:2:UNK:O	10:t2:5:UNK:N	1.92	1.01
1:L5:181:LEU:O	1:L5:184:ARG:N	1.92	1.01
10:t4:2:UNK:O	10:t4:5:UNK:N	1.92	1.01
14:BD:547:UNK:O	14:BE:1590:UNK:N	1.78	1.01
10:t3:2:UNK:O	10:t3:5:UNK:N	1.92	1.01
1:L5:297:THR:HA	1:L5:356:ILE:H	1.20	1.01
1:L6:297:THR:HA	1:L6:356:ILE:H	1.20	1.01
1:L3:131:LEU:HA	1:L3:143:ASN:CB	1.92	1.00
1:L5:131:LEU:HA	1:L5:143:ASN:CB	1.92	1.00
1:L1:131:LEU:HA	1:L1:143:ASN:CB	1.92	1.00
1:L6:131:LEU:HA	1:L6:143:ASN:CB	1.92	1.00
1:L2:82:LEU:O	1:L2:87:SER:N	1.95	0.99
1:L6:247:GLU:O	1:L6:252:VAL:N	1.95	0.99
1:L4:131:LEU:HA	1:L4:143:ASN:CB	1.92	0.99
1:L3:247:GLU:O	1:L3:252:VAL:N	1.95	0.99
1:L4:82:LEU:O	1:L4:87:SER:N	1.95	0.99
1:L1:82:LEU:O	1:L1:87:SER:N	1.96	0.99
1:L4:247:GLU:O	1:L4:252:VAL:N	1.95	0.99
1:L3:246:MET:O	1:L3:251:PRO:N	1.96	0.99
1:L2:131:LEU:HA	1:L2:143:ASN:CB	1.92	0.98
1:L2:247:GLU:O	1:L2:252:VAL:N	1.95	0.98
1:L2:246:MET:O	1:L2:251:PRO:N	1.96	0.98
1:L4:246:MET:O	1:L4:251:PRO:N	1.96	0.98
1:L6:82:LEU:O	1:L6:87:SER:N	1.96	0.98
1:L1:247:GLU:O	1:L1:252:VAL:N	1.95	0.98
2:M1:58:SER:CA	2:M1:59:ASP:CB	2.42	0.98
2:M5:388:TRP:N	2:M5:389:SER:HA	1.79	0.98
1:L3:225:LEU:HA	1:L3:229:ALA:HB1	1.46	0.98
1:L5:82:LEU:O	1:L5:87:SER:N	1.95	0.98
2:M2:58:SER:CA	2:M2:59:ASP:CB	2.42	0.97
2:M4:58:SER:CA	2:M4:59:ASP:CB	2.42	0.97
1:L3:82:LEU:O	1:L3:87:SER:N	1.95	0.97
1:L5:247:GLU:O	1:L5:252:VAL:N	1.95	0.97
1:L6:246:MET:O	1:L6:251:PRO:N	1.96	0.97
3:h1:9:UNK:O	3:h1:12:UNK:CB	2.13	0.97
1:L1:246:MET:O	1:L1:251:PRO:N	1.97	0.97
2:M4:388:TRP:N	2:M4:389:SER:HA	1.79	0.97
3:h6:9:UNK:O	3:h6:12:UNK:CB	2.13	0.97
3:h3:9:UNK:O	3:h3:12:UNK:CB	2.13	0.96
1:L4:189:GLY:O	1:L4:194:MET:N	1.98	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h4:9:UNK:O	3:h4:12:UNK:CB	2.13	0.96
1:L3:189:GLY:O	1:L3:194:MET:N	1.98	0.96
2:M6:58:SER:CA	2:M6:59:ASP:CB	2.42	0.96
1:L2:189:GLY:O	1:L2:194:MET:N	1.98	0.96
1:L6:225:LEU:HA	1:L6:229:ALA:HB1	1.46	0.96
2:M6:388:TRP:N	2:M6:389:SER:HA	1.79	0.96
3:h5:9:UNK:O	3:h5:12:UNK:CB	2.13	0.96
1:L5:246:MET:O	1:L5:251:PRO:N	1.96	0.96
1:L6:189:GLY:O	1:L6:194:MET:N	1.98	0.96
2:M5:58:SER:CA	2:M5:59:ASP:CB	2.42	0.96
1:L1:189:GLY:O	1:L1:194:MET:N	1.98	0.96
3:h2:9:UNK:O	3:h2:12:UNK:CB	2.13	0.95
1:L1:239:HIS:O	1:L1:240:PRO:C	2.07	0.95
1:L5:189:GLY:O	1:L5:194:MET:N	1.98	0.95
2:M2:388:TRP:N	2:M2:389:SER:HA	1.79	0.95
5:s1:26:UNK:O	5:s1:28:UNK:O	1.84	0.95
5:s2:26:UNK:O	5:s2:28:UNK:O	1.84	0.95
14:BD:547:UNK:O	14:BE:1591:UNK:N	1.99	0.95
1:L5:225:LEU:HA	1:L5:229:ALA:HB1	1.46	0.95
5:s6:26:UNK:O	5:s6:28:UNK:O	1.84	0.95
1:L2:225:LEU:HA	1:L2:229:ALA:HB1	1.46	0.95
2:M1:388:TRP:N	2:M1:389:SER:HA	1.79	0.95
5:s5:26:UNK:O	5:s5:28:UNK:O	1.84	0.94
5:s4:26:UNK:O	5:s4:28:UNK:O	1.84	0.94
1:L6:176:ALA:O	1:L6:179:ALA:HB3	1.68	0.94
5:s3:26:UNK:O	5:s3:28:UNK:O	1.84	0.94
1:L4:225:LEU:HA	1:L4:229:ALA:HB1	1.46	0.94
1:L2:83:LYS:HA	1:L2:87:SER:CB	1.98	0.94
2:M3:51:ASN:CB	2:M3:58:SER:CB	2.46	0.94
2:M3:58:SER:CA	2:M3:59:ASP:CB	2.42	0.94
1:L1:83:LYS:HA	1:L1:87:SER:CB	1.98	0.94
2:M3:388:TRP:N	2:M3:389:SER:HA	1.79	0.94
14:BC:1614:UNK:O	14:BC:1617:UNK:N	2.01	0.94
1:L4:176:ALA:O	1:L4:179:ALA:HB3	1.68	0.94
1:L6:210:PHE:O	1:L6:214:PRO:N	2.01	0.94
2:M4:51:ASN:CB	2:M4:58:SER:CB	2.46	0.94
2:M6:51:ASN:CB	2:M6:58:SER:CB	2.46	0.94
1:L5:83:LYS:HA	1:L5:87:SER:CB	1.98	0.94
8:n5:43:UNK:O	8:n5:46:UNK:N	2.01	0.94
1:L2:176:ALA:O	1:L2:179:ALA:HB3	1.68	0.93
1:L6:83:LYS:HA	1:L6:87:SER:CB	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L1:225:LEU:HA	1:L1:229:ALA:HB1	1.46	0.93
8:n1:43:UNK:O	8:n1:46:UNK:N	2.01	0.93
8:n3:43:UNK:O	8:n3:46:UNK:N	2.01	0.93
2:M4:387:SER:C	2:M4:389:SER:HA	1.93	0.93
2:M6:103:GLN:O	2:M6:107:ILE:N	2.02	0.93
2:M4:103:GLN:O	2:M4:107:ILE:N	2.02	0.93
2:M5:103:GLN:O	2:M5:107:ILE:N	2.02	0.93
2:M2:51:ASN:CB	2:M2:58:SER:CB	2.46	0.93
1:L3:210:PHE:O	1:L3:214:PRO:N	2.01	0.93
8:n4:43:UNK:O	8:n4:46:UNK:N	2.01	0.93
2:M3:103:GLN:O	2:M3:107:ILE:N	2.02	0.93
1:L4:83:LYS:HA	1:L4:87:SER:CB	1.98	0.93
2:M1:103:GLN:O	2:M1:107:ILE:N	2.02	0.93
1:L3:83:LYS:HA	1:L3:87:SER:CB	1.98	0.93
1:L3:176:ALA:O	1:L3:179:ALA:HB3	1.68	0.93
1:L4:210:PHE:O	1:L4:214:PRO:N	2.01	0.93
1:L5:55:SER:N	1:L5:56:MET:O	2.02	0.93
1:L1:210:PHE:O	1:L1:214:PRO:N	2.01	0.93
2:M1:51:ASN:CB	2:M1:58:SER:CB	2.46	0.93
2:M3:387:SER:C	2:M3:389:SER:HA	1.93	0.93
14:BD:1614:UNK:O	14:BD:1617:UNK:N	2.01	0.93
14:BB:1614:UNK:O	14:BB:1617:UNK:N	2.01	0.92
1:L5:210:PHE:O	1:L5:214:PRO:N	2.01	0.92
1:L2:55:SER:N	1:L2:56:MET:O	2.02	0.92
1:L4:55:SER:N	1:L4:56:MET:O	2.02	0.92
2:M5:51:ASN:CB	2:M5:58:SER:CB	2.46	0.92
2:M1:387:SER:C	2:M1:389:SER:HA	1.93	0.92
1:L1:55:SER:N	1:L1:56:MET:O	2.02	0.92
1:L1:321:LEU:O	1:L1:324:VAL:CB	2.18	0.92
1:L2:210:PHE:O	1:L2:214:PRO:N	2.01	0.92
2:M2:387:SER:C	2:M2:389:SER:HA	1.93	0.92
2:M2:103:GLN:O	2:M2:107:ILE:N	2.02	0.92
1:L3:55:SER:N	1:L3:56:MET:O	2.02	0.92
1:L3:239:HIS:O	1:L3:240:PRO:C	2.07	0.92
1:L5:176:ALA:O	1:L5:179:ALA:HB3	1.67	0.92
1:L4:239:HIS:O	1:L4:240:PRO:C	2.07	0.92
1:L5:247:GLU:CA	1:L5:251:PRO:CB	2.47	0.92
1:L6:321:LEU:O	1:L6:324:VAL:CB	2.18	0.92
1:L2:321:LEU:O	1:L2:324:VAL:CB	2.18	0.92
8:n2:43:UNK:O	8:n2:46:UNK:N	2.01	0.92
2:M5:189:SER:N	2:M5:191:SER:O	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M6:387:SER:C	2:M6:389:SER:HA	1.93	0.92
8:n6:43:UNK:O	8:n6:46:UNK:N	2.01	0.91
1:L3:247:GLU:CA	1:L3:251:PRO:CB	2.47	0.91
1:L3:321:LEU:O	1:L3:324:VAL:CB	2.18	0.91
1:L4:321:LEU:O	1:L4:324:VAL:CB	2.18	0.91
1:L6:239:HIS:O	1:L6:240:PRO:C	2.07	0.91
1:L1:176:ALA:O	1:L1:179:ALA:HB3	1.68	0.91
2:M1:189:SER:N	2:M1:191:SER:O	2.03	0.91
2:M4:189:SER:N	2:M4:191:SER:O	2.03	0.91
1:L6:55:SER:N	1:L6:56:MET:O	2.02	0.91
2:M5:387:SER:C	2:M5:389:SER:HA	1.93	0.91
1:L5:321:LEU:O	1:L5:324:VAL:CB	2.18	0.91
14:BE:1614:UNK:O	14:BE:1617:UNK:N	2.01	0.91
14:BA:1614:UNK:O	14:BA:1617:UNK:N	2.01	0.91
1:L2:239:HIS:O	1:L2:240:PRO:C	2.07	0.91
2:M2:189:SER:N	2:M2:191:SER:O	2.03	0.91
1:L5:239:HIS:O	1:L5:240:PRO:C	2.07	0.90
2:M3:189:SER:N	2:M3:191:SER:O	2.03	0.90
1:L5:161:LEU:CA	1:L5:162:LEU:C	2.41	0.90
1:L3:161:LEU:CA	1:L3:162:LEU:C	2.41	0.90
14:BD:547:UNK:CB	14:BE:1590:UNK:N	2.34	0.90
8:n1:5:UNK:O	8:n1:8:UNK:N	2.05	0.90
1:L6:161:LEU:CA	1:L6:162:LEU:C	2.41	0.90
1:L5:263:VAL:O	1:L5:265:GLY:N	2.05	0.90
1:L4:263:VAL:O	1:L4:265:GLY:N	2.05	0.90
14:BF:1614:UNK:O	14:BF:1617:UNK:N	2.01	0.90
1:L6:225:LEU:HA	1:L6:229:ALA:HB3	1.54	0.90
2:M1:347:GLY:O	2:M1:351:LEU:CB	2.21	0.89
1:L3:263:VAL:O	1:L3:265:GLY:N	2.05	0.89
1:L1:161:LEU:CA	1:L1:162:LEU:C	2.41	0.89
1:L1:247:GLU:CA	1:L1:251:PRO:CB	2.47	0.89
8:n6:5:UNK:O	8:n6:8:UNK:N	2.05	0.89
2:M5:347:GLY:O	2:M5:351:LEU:CB	2.21	0.89
1:L6:263:VAL:O	1:L6:265:GLY:N	2.05	0.89
1:L1:263:VAL:O	1:L1:265:GLY:N	2.05	0.89
1:L3:151:GLY:O	1:L3:155:VAL:CB	2.21	0.89
1:L4:151:GLY:O	1:L4:155:VAL:CB	2.21	0.89
1:L5:151:GLY:O	1:L5:155:VAL:CB	2.21	0.89
2:M6:348:LEU:HA	2:M6:351:LEU:CB	2.03	0.89
1:L2:263:VAL:O	1:L2:265:GLY:N	2.05	0.89
7:U5:23:UNK:CB	7:U5:24:UNK:HA	2.03	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M6:189:SER:N	2:M6:191:SER:O	2.03	0.89
2:M1:348:LEU:HA	2:M1:351:LEU:CB	2.03	0.89
8:n3:5:UNK:O	8:n3:8:UNK:N	2.05	0.89
8:n4:5:UNK:O	8:n4:8:UNK:N	2.05	0.89
2:M5:348:LEU:HA	2:M5:351:LEU:CB	2.03	0.89
7:U1:23:UNK:CB	7:U1:24:UNK:HA	2.03	0.89
8:n2:5:UNK:O	8:n2:8:UNK:N	2.05	0.89
2:M4:348:LEU:HA	2:M4:351:LEU:CB	2.03	0.89
1:L5:225:LEU:HA	1:L5:229:ALA:HB3	1.54	0.89
1:L1:225:LEU:HA	1:L1:229:ALA:HB3	1.54	0.89
7:U3:23:UNK:CB	7:U3:24:UNK:HA	2.03	0.89
5:j4:21:UNK:O	5:j4:22:UNK:O	1.91	0.89
14:BA:1637:UNK:HA	14:BA:1638:UNK:C	2.03	0.88
1:L2:29:MET:HA	1:L2:32:PHE:CB	2.03	0.88
2:M3:347:GLY:O	2:M3:351:LEU:CB	2.21	0.88
8:n5:5:UNK:O	8:n5:8:UNK:N	2.05	0.88
1:L6:151:GLY:O	1:L6:155:VAL:CB	2.21	0.88
1:L3:29:MET:HA	1:L3:32:PHE:CB	2.03	0.88
2:M3:348:LEU:HA	2:M3:351:LEU:CB	2.03	0.88
7:U4:23:UNK:CB	7:U4:24:UNK:HA	2.03	0.88
14:BC:1588:UNK:H2	14:BF:547:UNK:HA	1.33	0.88
2:M4:347:GLY:O	2:M4:351:LEU:CB	2.21	0.88
5:j5:21:UNK:O	5:j5:22:UNK:O	1.91	0.88
1:L6:29:MET:HA	1:L6:32:PHE:CB	2.03	0.88
14:BE:1637:UNK:HA	14:BE:1638:UNK:C	2.03	0.88
2:M2:347:GLY:O	2:M2:351:LEU:CB	2.21	0.88
2:M2:348:LEU:HA	2:M2:351:LEU:CB	2.03	0.88
14:BB:1637:UNK:HA	14:BB:1638:UNK:C	2.03	0.88
1:L4:225:LEU:HA	1:L4:229:ALA:HB3	1.54	0.88
1:L1:29:MET:HA	1:L1:32:PHE:CB	2.03	0.88
1:L4:29:MET:HA	1:L4:32:PHE:CB	2.03	0.88
14:BF:1637:UNK:HA	14:BF:1638:UNK:C	2.03	0.88
1:L1:151:GLY:O	1:L1:155:VAL:CB	2.21	0.88
1:L2:161:LEU:CA	1:L2:162:LEU:C	2.41	0.88
2:M6:347:GLY:O	2:M6:351:LEU:CB	2.21	0.88
1:L5:29:MET:HA	1:L5:32:PHE:CB	2.03	0.88
1:L6:247:GLU:CA	1:L6:251:PRO:CB	2.47	0.88
2:M6:176:PHE:N	2:M6:177:LEU:HA	1.89	0.88
1:L2:151:GLY:O	1:L2:155:VAL:CB	2.21	0.88
2:M3:49:SER:HA	2:M3:50:LEU:CB	2.04	0.88
14:BD:1637:UNK:HA	14:BD:1638:UNK:C	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M4:49:SER:HA	2:M4:50:LEU:CB	2.04	0.87
5:j2:21:UNK:O	5:j2:22:UNK:O	1.91	0.87
7:U6:23:UNK:CB	7:U6:24:UNK:HA	2.03	0.87
14:BC:1637:UNK:HA	14:BC:1638:UNK:C	2.03	0.87
1:L4:67:GLN:CB	1:L4:76:TRP:HA	2.05	0.87
5:j1:21:UNK:O	5:j1:22:UNK:O	1.91	0.87
1:L2:67:GLN:CB	1:L2:76:TRP:HA	2.05	0.87
7:U2:23:UNK:CB	7:U2:24:UNK:HA	2.03	0.87
1:L3:67:GLN:CB	1:L3:76:TRP:HA	2.05	0.87
1:L4:247:GLU:CA	1:L4:251:PRO:CB	2.47	0.87
1:L2:225:LEU:HA	1:L2:229:ALA:HB3	1.54	0.87
1:L3:225:LEU:HA	1:L3:229:ALA:HB3	1.54	0.87
1:L6:67:GLN:CB	1:L6:76:TRP:HA	2.05	0.87
2:M6:49:SER:HA	2:M6:50:LEU:CB	2.04	0.87
5:j3:21:UNK:O	5:j3:22:UNK:O	1.91	0.87
14:BD:1638:UNK:HA	14:BD:1642:UNK:CB	2.05	0.87
5:j6:21:UNK:O	5:j6:22:UNK:O	1.91	0.87
1:L1:321:LEU:O	1:L1:324:VAL:N	2.08	0.86
14:BB:1638:UNK:HA	14:BB:1642:UNK:CB	2.05	0.86
1:L1:67:GLN:CB	1:L1:76:TRP:HA	2.05	0.86
3:f3:20:UNK:O	3:f3:24:UNK:N	2.08	0.86
2:M6:432:ARG:O	2:M6:435:ALA:HB3	1.76	0.86
2:M1:281:ASP:O	2:M1:284:SER:CB	2.24	0.86
2:M2:176:PHE:N	2:M2:177:LEU:HA	1.89	0.86
1:L2:247:GLU:CA	1:L2:251:PRO:CB	2.47	0.86
1:L5:67:GLN:CB	1:L5:76:TRP:HA	2.05	0.86
2:M5:432:ARG:O	2:M5:435:ALA:HB3	1.76	0.86
14:BE:1638:UNK:HA	14:BE:1642:UNK:CB	2.05	0.86
3:f6:20:UNK:O	3:f6:24:UNK:N	2.08	0.86
2:M2:49:SER:HA	2:M2:50:LEU:CB	2.04	0.86
2:M4:281:ASP:O	2:M4:284:SER:CB	2.24	0.86
2:M4:432:ARG:O	2:M4:435:ALA:HB3	1.76	0.86
2:M5:176:PHE:N	2:M5:177:LEU:HA	1.89	0.86
2:M1:49:SER:HA	2:M1:50:LEU:CB	2.05	0.86
2:M3:432:ARG:O	2:M3:435:ALA:HB3	1.76	0.86
1:L5:321:LEU:O	1:L5:324:VAL:N	2.08	0.86
2:M6:281:ASP:O	2:M6:284:SER:CB	2.24	0.86
2:M5:49:SER:HA	2:M5:50:LEU:CB	2.05	0.86
2:M5:281:ASP:O	2:M5:284:SER:CB	2.24	0.86
1:L6:316:SER:O	1:L6:319:LEU:N	2.09	0.86
1:L6:321:LEU:O	1:L6:324:VAL:N	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BF:1638:UNK:HA	14:BF:1642:UNK:CB	2.05	0.86
1:L1:316:SER:O	1:L1:319:LEU:N	2.09	0.86
2:M3:281:ASP:O	2:M3:284:SER:CB	2.24	0.86
3:f2:20:UNK:O	3:f2:24:UNK:N	2.08	0.85
1:L3:321:LEU:O	1:L3:324:VAL:N	2.08	0.85
1:L4:321:LEU:O	1:L4:324:VAL:N	2.08	0.85
2:M4:176:PHE:N	2:M4:177:LEU:HA	1.89	0.85
2:M6:146:GLY:O	2:M6:149:PHE:N	2.09	0.85
2:M3:146:GLY:O	2:M3:149:PHE:N	2.09	0.85
1:L5:316:SER:O	1:L5:319:LEU:N	2.09	0.85
1:L2:297:THR:HA	1:L2:356:ILE:N	1.92	0.85
2:M2:432:ARG:O	2:M2:435:ALA:HB3	1.76	0.85
14:BC:1638:UNK:HA	14:BC:1642:UNK:CB	2.05	0.85
3:f4:20:UNK:O	3:f4:24:UNK:N	2.08	0.85
2:M1:176:PHE:N	2:M1:177:LEU:HA	1.89	0.85
1:L1:297:THR:HA	1:L1:356:ILE:N	1.91	0.85
2:M2:146:GLY:O	2:M2:149:PHE:N	2.09	0.85
1:L3:316:SER:O	1:L3:319:LEU:N	2.09	0.85
1:L4:316:SER:O	1:L4:319:LEU:N	2.09	0.85
3:f5:20:UNK:O	3:f5:24:UNK:N	2.08	0.85
14:BA:1638:UNK:HA	14:BA:1642:UNK:CB	2.05	0.85
2:M4:146:GLY:O	2:M4:149:PHE:N	2.09	0.85
1:L2:321:LEU:O	1:L2:324:VAL:N	2.08	0.85
3:f6:26:UNK:O	3:f6:29:UNK:CB	2.25	0.85
2:M1:348:LEU:H	2:M1:415:GLN:CB	1.90	0.85
2:M5:146:GLY:O	2:M5:149:PHE:N	2.09	0.85
2:M3:348:LEU:H	2:M3:415:GLN:CB	1.90	0.85
1:L5:46:THR:O	1:L5:49:SER:CB	2.25	0.85
1:L6:46:THR:O	1:L6:49:SER:CB	2.25	0.85
2:M1:146:GLY:O	2:M1:149:PHE:N	2.09	0.85
3:f3:26:UNK:O	3:f3:29:UNK:CB	2.25	0.85
3:f4:26:UNK:O	3:f4:29:UNK:CB	2.25	0.85
2:M1:68:LEU:O	2:M1:69:THR:C	2.19	0.84
2:M2:281:ASP:O	2:M2:284:SER:CB	2.24	0.84
10:t6:33:UNK:O	10:t6:36:UNK:CB	2.25	0.84
3:f1:20:UNK:O	3:f1:24:UNK:N	2.08	0.84
1:L2:316:SER:O	1:L2:319:LEU:N	2.09	0.84
5:j4:12:UNK:HA	5:k4:7:UNK:CB	2.07	0.84
3:f1:26:UNK:O	3:f1:29:UNK:CB	2.25	0.84
3:f2:26:UNK:O	3:f2:29:UNK:CB	2.25	0.84
2:M3:176:PHE:N	2:M3:177:LEU:HA	1.89	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:288:CYS:CB	1:L5:308:LYS:CB	2.56	0.84
10:t5:33:UNK:O	10:t5:36:UNK:CB	2.26	0.84
14:BF:1602:UNK:C	14:BF:1606:UNK:N	2.30	0.84
10:t2:33:UNK:O	10:t2:36:UNK:CB	2.25	0.84
1:L5:297:THR:HA	1:L5:356:ILE:N	1.91	0.84
2:M1:432:ARG:O	2:M1:435:ALA:HB3	1.76	0.84
10:t3:33:UNK:O	10:t3:36:UNK:CB	2.25	0.84
1:L4:288:CYS:CB	1:L4:308:LYS:CB	2.56	0.84
1:L3:297:THR:HA	1:L3:356:ILE:N	1.92	0.84
1:L4:46:THR:O	1:L4:49:SER:CB	2.25	0.84
2:M4:348:LEU:H	2:M4:415:GLN:CB	1.90	0.84
1:L1:34:THR:O	1:L1:38:SER:N	2.10	0.84
5:j1:12:UNK:HA	5:k1:7:UNK:CB	2.07	0.84
2:M2:68:LEU:O	2:M2:69:THR:C	2.19	0.84
5:j3:12:UNK:HA	5:k3:7:UNK:CB	2.08	0.84
1:L5:34:THR:O	1:L5:38:SER:N	2.10	0.84
5:j6:12:UNK:HA	5:k6:7:UNK:CB	2.07	0.84
10:t1:33:UNK:O	10:t1:36:UNK:CB	2.25	0.84
10:t4:33:UNK:O	10:t4:36:UNK:CB	2.25	0.84
1:L1:46:THR:O	1:L1:49:SER:CB	2.25	0.84
10:t3:34:UNK:O	10:t3:37:UNK:N	2.11	0.84
2:M2:348:LEU:H	2:M2:415:GLN:CB	1.90	0.83
1:L4:297:THR:HA	1:L4:356:ILE:N	1.91	0.83
1:L6:197:PHE:O	1:L6:201:LEU:N	2.11	0.83
1:L2:34:THR:O	1:L2:38:SER:N	2.10	0.83
10:t4:34:UNK:O	10:t4:37:UNK:N	2.11	0.83
3:f5:26:UNK:O	3:f5:29:UNK:CB	2.25	0.83
2:M6:348:LEU:H	2:M6:415:GLN:CB	1.90	0.83
5:j5:12:UNK:HA	5:k5:7:UNK:CB	2.07	0.83
1:L6:297:THR:HA	1:L6:356:ILE:N	1.92	0.83
1:L2:46:THR:O	1:L2:49:SER:CB	2.25	0.83
1:L3:46:THR:O	1:L3:49:SER:CB	2.25	0.83
2:M3:68:LEU:O	2:M3:69:THR:C	2.19	0.83
2:M5:348:LEU:H	2:M5:415:GLN:CB	1.90	0.83
1:L6:288:CYS:CB	1:L6:308:LYS:CB	2.55	0.83
1:L3:197:PHE:O	1:L3:201:LEU:N	2.11	0.83
1:L3:288:CYS:CB	1:L3:308:LYS:CB	2.56	0.83
5:j2:12:UNK:HA	5:k2:7:UNK:CB	2.07	0.83
1:L6:34:THR:O	1:L6:38:SER:N	2.10	0.83
1:L1:288:CYS:CB	1:L1:308:LYS:CB	2.56	0.83
1:L2:197:PHE:O	1:L2:201:LEU:N	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:t5:34:UNK:O	10:t5:37:UNK:N	2.11	0.83
10:t6:34:UNK:O	10:t6:37:UNK:N	2.11	0.83
1:L2:288:CYS:CB	1:L2:308:LYS:CB	2.56	0.83
1:L3:321:LEU:O	1:L3:325:THR:N	2.12	0.83
10:t2:34:UNK:O	10:t2:37:UNK:N	2.11	0.83
1:L4:34:THR:O	1:L4:38:SER:N	2.11	0.83
14:BC:1602:UNK:C	14:BC:1606:UNK:N	2.30	0.82
1:L4:161:LEU:CA	1:L4:162:LEU:C	2.41	0.82
8:n6:10:UNK:O	8:n6:13:UNK:N	2.12	0.82
1:L3:34:THR:O	1:L3:38:SER:N	2.10	0.82
8:n2:10:UNK:O	8:n2:13:UNK:N	2.12	0.82
3:i6:22:UNK:O	3:i6:25:UNK:N	2.13	0.82
3:i2:22:UNK:O	3:i2:25:UNK:N	2.13	0.82
1:L3:77:LEU:HA	1:L3:78:THR:CB	2.10	0.82
2:M6:281:ASP:O	2:M6:285:LEU:N	2.12	0.82
1:L1:77:LEU:HA	1:L1:78:THR:CB	2.10	0.82
10:t1:34:UNK:O	10:t1:37:UNK:N	2.11	0.82
1:L4:77:LEU:HA	1:L4:78:THR:CB	2.10	0.82
3:i4:22:UNK:O	3:i4:25:UNK:N	2.13	0.82
3:i1:22:UNK:O	3:i1:25:UNK:N	2.13	0.82
8:n3:10:UNK:O	8:n3:13:UNK:N	2.12	0.82
8:n5:10:UNK:O	8:n5:13:UNK:N	2.12	0.82
2:M6:68:LEU:O	2:M6:69:THR:C	2.19	0.82
1:L6:321:LEU:O	1:L6:325:THR:N	2.12	0.82
2:M1:281:ASP:O	2:M1:285:LEU:N	2.12	0.82
1:L1:321:LEU:O	1:L1:325:THR:N	2.12	0.82
1:L2:435:ALA:CB	14:BB:1644:UNK:HA	2.09	0.82
2:M5:281:ASP:O	2:M5:285:LEU:N	2.12	0.82
7:U6:22:UNK:HA	14:BF:1635:UNK:CB	2.10	0.82
1:L6:435:ALA:CB	14:BF:1644:UNK:HA	2.10	0.82
2:M3:281:ASP:O	2:M3:285:LEU:N	2.12	0.81
1:L5:225:LEU:CA	1:L5:229:ALA:HB3	2.10	0.81
1:L2:77:LEU:HA	1:L2:78:THR:CB	2.10	0.81
1:L2:321:LEU:O	1:L2:325:THR:N	2.12	0.81
1:L3:225:LEU:CA	1:L3:229:ALA:HB3	2.10	0.81
1:L5:321:LEU:O	1:L5:325:THR:N	2.12	0.81
1:L6:77:LEU:HA	1:L6:78:THR:CB	2.10	0.81
2:M5:68:LEU:O	2:M5:69:THR:C	2.19	0.81
7:U5:22:UNK:HA	14:BE:1635:UNK:CB	2.10	0.81
8:n1:10:UNK:O	8:n1:13:UNK:N	2.12	0.81
2:M2:281:ASP:O	2:M2:285:LEU:N	2.12	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i3:22:UNK:O	3:i3:25:UNK:N	2.13	0.81
1:L4:197:PHE:O	1:L4:201:LEU:N	2.11	0.81
1:L4:321:LEU:O	1:L4:325:THR:N	2.12	0.81
7:U4:22:UNK:HA	14:BD:1635:UNK:CB	2.10	0.81
5:s1:26:UNK:O	5:s1:27:UNK:C	2.28	0.81
14:BA:1609:UNK:CB	14:BA:1642:UNK:CA	2.59	0.81
1:L3:435:ALA:CB	14:BC:1644:UNK:HA	2.09	0.81
2:M3:118:PHE:O	2:M3:122:PHE:N	2.13	0.81
7:U3:22:UNK:HA	14:BC:1635:UNK:CB	2.10	0.81
8:n4:10:UNK:O	8:n4:13:UNK:N	2.12	0.81
7:U2:22:UNK:HA	14:BB:1635:UNK:CB	2.10	0.81
2:M4:118:PHE:O	2:M4:122:PHE:N	2.14	0.81
14:BE:1609:UNK:CB	14:BE:1642:UNK:CA	2.59	0.81
1:L1:225:LEU:CA	1:L1:229:ALA:HB3	2.10	0.80
14:BB:1609:UNK:CB	14:BB:1642:UNK:CA	2.59	0.80
3:i5:22:UNK:O	3:i5:25:UNK:N	2.13	0.80
1:L4:435:ALA:CB	14:BD:1644:UNK:HA	2.09	0.80
2:M1:118:PHE:O	2:M1:122:PHE:N	2.13	0.80
1:L2:225:LEU:CA	1:L2:229:ALA:HB3	2.10	0.80
1:L2:321:LEU:O	1:L2:324:VAL:CA	2.30	0.80
2:M4:281:ASP:O	2:M4:285:LEU:N	2.13	0.80
1:L6:321:LEU:O	1:L6:324:VAL:CA	2.30	0.80
1:L1:82:LEU:H	1:L1:86:LEU:CB	1.94	0.80
1:L2:82:LEU:H	1:L2:86:LEU:CB	1.94	0.80
1:L5:435:ALA:CB	14:BE:1644:UNK:HA	2.09	0.80
5:s6:26:UNK:O	5:s6:27:UNK:C	2.28	0.80
1:L1:197:PHE:O	1:L1:201:LEU:N	2.11	0.80
2:M2:118:PHE:O	2:M2:122:PHE:N	2.14	0.80
1:L4:82:LEU:H	1:L4:86:LEU:CB	1.94	0.80
5:s2:26:UNK:O	5:s2:27:UNK:C	2.28	0.80
1:L4:225:LEU:CA	1:L4:229:ALA:HB3	2.10	0.80
14:BF:1609:UNK:CB	14:BF:1642:UNK:CA	2.59	0.80
2:M1:108:MET:HA	2:M1:111:THR:CB	2.12	0.80
7:U3:35:UNK:CB	7:U3:38:UNK:CB	2.60	0.80
2:M4:68:LEU:O	2:M4:69:THR:C	2.19	0.80
14:BD:1609:UNK:CB	14:BD:1642:UNK:CA	2.59	0.80
1:L5:77:LEU:HA	1:L5:78:THR:CB	2.10	0.80
1:L5:82:LEU:H	1:L5:86:LEU:CB	1.94	0.80
1:L5:197:PHE:O	1:L5:201:LEU:N	2.11	0.80
1:L3:82:LEU:H	1:L3:86:LEU:CB	1.94	0.80
14:BC:1609:UNK:CB	14:BC:1642:UNK:CA	2.59	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:297:THR:CA	1:L5:356:ILE:H	1.95	0.80
2:M5:118:PHE:O	2:M5:122:PHE:N	2.14	0.80
1:L6:225:LEU:CA	1:L6:229:ALA:HB3	2.10	0.80
1:L1:435:ALA:CB	14:BA:1644:UNK:HA	2.09	0.80
2:M4:108:MET:HA	2:M4:111:THR:CB	2.12	0.80
7:U1:22:UNK:HA	14:BA:1635:UNK:CB	2.10	0.79
2:M5:241:TYR:O	2:M5:244:LEU:N	2.15	0.79
2:M1:207:MET:O	2:M1:208:PRO:CB	2.30	0.79
7:U2:35:UNK:CB	7:U2:38:UNK:CB	2.60	0.79
1:L3:225:LEU:CA	1:L3:229:ALA:CB	2.58	0.79
1:L3:321:LEU:O	1:L3:324:VAL:CA	2.30	0.79
2:M6:207:MET:O	2:M6:208:PRO:CB	2.30	0.79
1:L1:321:LEU:O	1:L1:324:VAL:CA	2.30	0.79
7:U1:35:UNK:CB	7:U1:38:UNK:CB	2.60	0.79
2:M5:108:MET:HA	2:M5:111:THR:CB	2.12	0.79
2:M2:108:MET:HA	2:M2:111:THR:CB	2.12	0.79
2:M4:241:TYR:O	2:M4:244:LEU:N	2.15	0.79
7:U5:21:UNK:C	14:BE:1635:UNK:CB	2.60	0.79
1:L6:82:LEU:H	1:L6:86:LEU:CB	1.94	0.79
1:L1:225:LEU:CA	1:L1:229:ALA:CB	2.58	0.79
1:L3:297:THR:CA	1:L3:356:ILE:H	1.95	0.79
2:M3:108:MET:HA	2:M3:111:THR:CB	2.12	0.79
7:U5:35:UNK:CB	7:U5:38:UNK:CB	2.60	0.79
7:U3:21:UNK:C	14:BC:1635:UNK:CB	2.60	0.79
1:L4:297:THR:CA	1:L4:356:ILE:H	1.95	0.79
1:L5:321:LEU:O	1:L5:324:VAL:CA	2.29	0.79
2:M5:62:SER:CB	2:M5:65:LEU:H	1.96	0.79
2:M2:207:MET:O	2:M2:208:PRO:CB	2.30	0.79
1:L4:321:LEU:O	1:L4:324:VAL:CA	2.29	0.79
2:M4:207:MET:O	2:M4:208:PRO:CB	2.30	0.79
2:M6:118:PHE:O	2:M6:122:PHE:N	2.14	0.79
14:BD:1602:UNK:C	14:BD:1606:UNK:N	2.30	0.79
2:M6:108:MET:HA	2:M6:111:THR:CB	2.12	0.79
7:U2:21:UNK:C	14:BB:1635:UNK:CB	2.60	0.79
4:g4:16:UNK:O	4:g4:19:UNK:N	2.16	0.79
1:L6:297:THR:CA	1:L6:356:ILE:H	1.95	0.79
7:U1:21:UNK:C	14:BA:1635:UNK:CB	2.60	0.79
2:M2:62:SER:CB	2:M2:65:LEU:H	1.96	0.79
14:BD:547:UNK:CA	14:BE:1590:UNK:N	2.34	0.79
2:M5:207:MET:O	2:M5:208:PRO:CB	2.30	0.79
7:U6:21:UNK:C	14:BF:1635:UNK:CB	2.60	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:g2:16:UNK:O	4:g2:19:UNK:N	2.16	0.78
2:M6:62:SER:CB	2:M6:65:LEU:H	1.96	0.78
7:U6:35:UNK:CB	7:U6:38:UNK:CB	2.60	0.78
2:M1:241:TYR:O	2:M1:244:LEU:N	2.15	0.78
2:M2:241:TYR:O	2:M2:244:LEU:N	2.15	0.78
5:j4:13:UNK:O	5:j4:16:UNK:N	2.17	0.78
4:g5:16:UNK:O	4:g5:19:UNK:N	2.16	0.78
2:M3:241:TYR:O	2:M3:244:LEU:N	2.15	0.78
2:M4:121:LEU:O	2:M4:124:ALA:HB3	1.84	0.78
7:U4:21:UNK:C	14:BD:1635:UNK:CB	2.60	0.78
7:U4:35:UNK:CB	7:U4:38:UNK:CB	2.60	0.78
1:L2:297:THR:CA	1:L2:356:ILE:H	1.95	0.78
5:j2:13:UNK:O	5:j2:16:UNK:N	2.17	0.78
1:L1:225:LEU:C	1:L1:229:ALA:HB3	2.09	0.78
1:L2:225:LEU:C	1:L2:229:ALA:HB3	2.09	0.78
4:g3:16:UNK:O	4:g3:19:UNK:N	2.16	0.78
2:M4:62:SER:CB	2:M4:65:LEU:H	1.96	0.78
2:M6:241:TYR:O	2:M6:244:LEU:N	2.15	0.78
6:l1:14:UNK:O	6:l1:17:UNK:CB	2.32	0.78
5:j3:13:UNK:O	5:j3:16:UNK:N	2.17	0.78
4:g6:16:UNK:O	4:g6:19:UNK:N	2.16	0.78
4:g1:16:UNK:O	4:g1:19:UNK:N	2.16	0.78
1:L2:223:ILE:CB	1:L2:256:LEU:CB	2.62	0.78
6:l2:14:UNK:O	6:l2:17:UNK:CB	2.32	0.78
1:L3:142:ALA:HA	2:M3:370:PRO:CB	2.14	0.78
1:L6:225:LEU:CA	1:L6:229:ALA:CB	2.58	0.78
2:M1:121:LEU:O	2:M1:124:ALA:HB3	1.84	0.78
5:j1:13:UNK:O	5:j1:16:UNK:N	2.17	0.78
6:l4:14:UNK:O	6:l4:17:UNK:CB	2.32	0.78
1:L5:67:GLN:CB	1:L5:76:TRP:CB	2.62	0.78
2:M1:62:SER:CB	2:M1:65:LEU:H	1.96	0.77
1:L2:161:LEU:CA	1:L2:163:ILE:N	2.46	0.77
1:L3:225:LEU:C	1:L3:229:ALA:HB3	2.09	0.77
6:l3:14:UNK:O	6:l3:17:UNK:CB	2.32	0.77
1:L5:142:ALA:HA	2:M5:370:PRO:CB	2.14	0.77
2:M5:191:SER:CB	2:M5:192:ASN:HA	2.14	0.77
5:s5:26:UNK:O	5:s5:27:UNK:C	2.28	0.77
6:l5:14:UNK:O	6:l5:17:UNK:CB	2.32	0.77
1:L1:223:ILE:CB	1:L1:256:LEU:CB	2.62	0.77
2:M5:121:LEU:O	2:M5:124:ALA:HB3	1.84	0.77
2:M2:121:LEU:O	2:M2:124:ALA:HB3	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M3:62:SER:CB	2:M3:65:LEU:H	1.96	0.77
2:M3:121:LEU:O	2:M3:124:ALA:HB3	1.84	0.77
1:L5:225:LEU:C	1:L5:229:ALA:HB3	2.09	0.77
1:L6:142:ALA:HA	2:M6:370:PRO:CB	2.14	0.77
6:l6:14:UNK:O	6:l6:17:UNK:CB	2.32	0.77
2:M2:191:SER:CB	2:M2:192:ASN:HA	2.14	0.77
14:BB:1602:UNK:C	14:BB:1606:UNK:N	2.30	0.77
2:M6:113:MET:HA	2:M6:114:GLU:CB	2.13	0.77
1:L2:142:ALA:HA	2:M2:370:PRO:CB	2.14	0.77
1:L3:67:GLN:CB	1:L3:76:TRP:CB	2.62	0.77
1:L4:142:ALA:HA	2:M4:370:PRO:CB	2.14	0.77
1:L1:142:ALA:HA	2:M1:370:PRO:CB	2.14	0.77
1:L2:67:GLN:CB	1:L2:76:TRP:CB	2.62	0.77
1:L4:223:ILE:CB	1:L4:256:LEU:CB	2.62	0.77
5:s4:26:UNK:O	5:s4:27:UNK:C	2.29	0.77
1:L6:223:ILE:CB	1:L6:256:LEU:CB	2.62	0.77
1:L3:223:ILE:CB	1:L3:256:LEU:CB	2.62	0.77
2:M3:25:VAL:O	2:M3:28:THR:N	2.18	0.77
1:L4:225:LEU:C	1:L4:229:ALA:HB3	2.09	0.77
2:M5:25:VAL:O	2:M5:28:THR:N	2.18	0.77
1:L6:225:LEU:C	1:L6:229:ALA:HB3	2.09	0.77
2:M3:113:MET:HA	2:M3:114:GLU:CB	2.13	0.76
2:M6:121:LEU:O	2:M6:124:ALA:HB3	1.84	0.76
2:M2:113:MET:HA	2:M2:114:GLU:CB	2.13	0.76
1:L3:167:TYR:O	1:L3:170:ALA:HB3	1.86	0.76
2:M3:207:MET:O	2:M3:208:PRO:CB	2.30	0.76
2:M4:25:VAL:O	2:M4:28:THR:N	2.18	0.76
1:L5:223:ILE:CB	1:L5:256:LEU:CB	2.62	0.76
2:M3:191:SER:CB	2:M3:192:ASN:HA	2.14	0.76
1:L4:67:GLN:CB	1:L4:76:TRP:CB	2.62	0.76
2:M4:62:SER:N	2:M4:63:THR:HA	2.00	0.76
1:L6:67:GLN:CB	1:L6:76:TRP:CB	2.62	0.76
2:M6:25:VAL:O	2:M6:28:THR:N	2.18	0.76
2:M2:62:SER:N	2:M2:63:THR:HA	2.00	0.76
2:M3:347:GLY:O	2:M3:351:LEU:CA	2.34	0.76
2:M4:447:LEU:O	2:M4:450:UNK:O	2.04	0.76
2:M1:113:MET:HA	2:M1:114:GLU:CB	2.13	0.76
2:M1:347:GLY:O	2:M1:351:LEU:CA	2.34	0.76
2:M2:447:LEU:O	2:M2:450:UNK:O	2.04	0.76
1:L3:161:LEU:CA	1:L3:163:ILE:N	2.46	0.76
5:j5:13:UNK:O	5:j5:16:UNK:N	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BE:1602:UNK:C	14:BE:1606:UNK:N	2.30	0.76
2:M6:191:SER:CB	2:M6:192:ASN:HA	2.14	0.76
1:L1:67:GLN:CB	1:L1:76:TRP:CB	2.62	0.76
2:M1:25:VAL:O	2:M1:28:THR:N	2.18	0.76
1:L4:225:LEU:CA	1:L4:229:ALA:CB	2.58	0.76
2:M5:347:GLY:O	2:M5:351:LEU:CA	2.34	0.76
5:j6:13:UNK:O	5:j6:16:UNK:N	2.17	0.76
2:M1:62:SER:N	2:M1:63:THR:HA	2.00	0.76
14:BA:1602:UNK:C	14:BA:1606:UNK:N	2.30	0.76
2:M2:347:GLY:O	2:M2:351:LEU:CA	2.34	0.76
2:M4:191:SER:CB	2:M4:192:ASN:HA	2.14	0.76
2:M4:347:GLY:O	2:M4:351:LEU:CA	2.34	0.76
1:L6:503:PRO:O	1:L6:507:LYS:N	2.19	0.76
2:M1:191:SER:CB	2:M1:192:ASN:HA	2.14	0.76
1:L3:503:PRO:O	1:L3:507:LYS:N	2.19	0.76
1:L5:225:LEU:CA	1:L5:229:ALA:CB	2.58	0.76
2:M5:113:MET:HA	2:M5:114:GLU:CB	2.13	0.76
1:L1:297:THR:CA	1:L1:356:ILE:H	1.95	0.76
1:L2:167:TYR:O	1:L2:170:ALA:HB3	1.86	0.76
1:L4:167:TYR:O	1:L4:170:ALA:HB3	1.86	0.76
1:L4:190:PHE:HA	1:L4:194:MET:HA	1.68	0.76
1:L5:190:PHE:HA	1:L5:194:MET:HA	1.68	0.76
2:M6:62:SER:N	2:M6:63:THR:HA	2.00	0.76
2:M6:258:ALA:O	2:M6:262:ILE:N	2.17	0.76
2:M1:447:LEU:O	2:M1:450:UNK:O	2.04	0.75
2:M4:113:MET:HA	2:M4:114:GLU:CB	2.13	0.75
2:M3:447:LEU:O	2:M3:450:UNK:O	2.04	0.75
2:M2:25:VAL:O	2:M2:28:THR:N	2.18	0.75
2:M5:62:SER:N	2:M5:63:THR:HA	2.00	0.75
2:M6:347:GLY:O	2:M6:351:LEU:CA	2.34	0.75
1:L4:161:LEU:CA	1:L4:163:ILE:N	2.46	0.75
1:L5:167:TYR:O	1:L5:170:ALA:HB3	1.86	0.75
2:M6:447:LEU:O	2:M6:450:UNK:O	2.04	0.75
2:M5:447:LEU:O	2:M5:450:UNK:O	2.04	0.75
2:M3:62:SER:N	2:M3:63:THR:HA	2.00	0.75
5:j6:13:UNK:O	5:j6:14:UNK:C	2.34	0.75
1:L3:190:PHE:HA	1:L3:194:MET:HA	1.68	0.75
1:L1:167:TYR:O	1:L1:170:ALA:HB3	1.86	0.74
2:M1:275:ILE:O	2:M1:278:ARG:CB	2.35	0.74
1:L2:190:PHE:HA	1:L2:194:MET:HA	1.68	0.74
2:M2:87:GLU:CB	2:M2:88:ASN:HA	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M2:275:ILE:O	2:M2:278:ARG:CB	2.35	0.74
2:M3:258:ALA:O	2:M3:262:ILE:N	2.17	0.74
5:j4:13:UNK:O	5:j4:14:UNK:C	2.34	0.74
2:M5:275:ILE:O	2:M5:278:ARG:CB	2.35	0.74
1:L6:167:TYR:O	1:L6:170:ALA:HB3	1.86	0.74
1:L1:190:PHE:HA	1:L1:194:MET:HA	1.68	0.74
2:M3:275:ILE:O	2:M3:278:ARG:CB	2.35	0.74
5:s3:26:UNK:O	5:s3:27:UNK:C	2.28	0.74
1:L4:165:TRP:O	1:L4:169:ARG:N	2.20	0.74
2:M6:87:GLU:CB	2:M6:88:ASN:HA	2.17	0.74
1:L6:190:PHE:HA	1:L6:194:MET:HA	1.68	0.74
1:L2:503:PRO:O	1:L2:507:LYS:N	2.19	0.74
2:M4:275:ILE:O	2:M4:278:ARG:CB	2.35	0.74
5:j1:13:UNK:O	5:j1:14:UNK:C	2.34	0.74
1:L3:207:GLN:HA	1:L3:208:GLN:CB	2.18	0.74
5:j5:13:UNK:O	5:j5:14:UNK:C	2.34	0.74
2:M1:87:GLU:CB	2:M1:88:ASN:HA	2.17	0.74
1:L2:71:ILE:O	1:L2:72:SER:CB	2.36	0.74
2:M4:258:ALA:O	2:M4:262:ILE:N	2.17	0.74
1:L2:224:GLY:N	1:L2:256:LEU:CB	2.51	0.74
1:L3:165:TRP:O	1:L3:169:ARG:N	2.21	0.74
5:j3:13:UNK:O	5:j3:14:UNK:C	2.34	0.74
1:L4:71:ILE:O	1:L4:72:SER:CB	2.36	0.74
1:L4:224:GLY:N	1:L4:256:LEU:CB	2.51	0.74
1:L1:71:ILE:O	1:L1:72:SER:CB	2.36	0.74
1:L1:161:LEU:CA	1:L1:163:ILE:N	2.46	0.74
2:M5:87:GLU:CB	2:M5:88:ASN:HA	2.17	0.74
2:M3:87:GLU:CB	2:M3:88:ASN:HA	2.17	0.73
1:L6:224:GLY:N	1:L6:256:LEU:CB	2.51	0.73
1:L2:207:GLN:HA	1:L2:208:GLN:CB	2.18	0.73
1:L2:239:HIS:O	1:L2:240:PRO:O	2.06	0.73
2:M3:27:SER:O	2:M3:30:HIS:N	2.21	0.73
1:L1:207:GLN:HA	1:L1:208:GLN:CB	2.18	0.73
2:M4:87:GLU:CB	2:M4:88:ASN:HA	2.17	0.73
1:L5:207:GLN:HA	1:L5:208:GLN:CB	2.18	0.73
1:L1:224:GLY:N	1:L1:256:LEU:CB	2.51	0.73
1:L1:239:HIS:O	1:L1:240:PRO:O	2.06	0.73
2:M2:258:ALA:O	2:M2:262:ILE:N	2.17	0.73
2:M6:275:ILE:O	2:M6:278:ARG:CB	2.35	0.73
2:M1:27:SER:O	2:M1:30:HIS:N	2.22	0.73
1:L5:181:LEU:O	1:L5:182:TYR:C	2.32	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:t5:53:UNK:O	10:t5:56:UNK:O	2.07	0.73
1:L2:209:ILE:O	1:L2:212:LEU:CB	2.37	0.73
1:L3:209:ILE:O	1:L3:212:LEU:CB	2.37	0.73
1:L3:239:HIS:O	1:L3:240:PRO:O	2.06	0.73
2:M3:372:THR:O	2:M3:376:ILE:N	2.20	0.73
1:L4:181:LEU:O	1:L4:182:TYR:C	2.32	0.73
1:L5:71:ILE:O	1:L5:72:SER:CB	2.36	0.73
1:L5:503:PRO:O	1:L5:507:LYS:N	2.19	0.73
1:L6:209:ILE:O	1:L6:212:LEU:CB	2.37	0.73
2:M4:23:ILE:O	2:M4:25:VAL:N	2.21	0.73
1:L5:209:ILE:O	1:L5:212:LEU:CB	2.37	0.73
3:f5:29:UNK:O	3:f5:30:UNK:CB	2.36	0.73
2:M2:27:SER:O	2:M2:30:HIS:N	2.21	0.73
1:L5:224:GLY:N	1:L5:256:LEU:CB	2.51	0.73
1:L3:224:GLY:N	1:L3:256:LEU:CB	2.51	0.73
14:BD:1613:UNK:O	14:BD:1617:UNK:CB	2.37	0.73
1:L6:71:ILE:O	1:L6:72:SER:CB	2.36	0.73
3:f6:29:UNK:O	3:f6:30:UNK:CB	2.36	0.73
10:t6:53:UNK:O	10:t6:56:UNK:O	2.07	0.73
14:BF:1613:UNK:O	14:BF:1617:UNK:CB	2.37	0.73
2:M1:258:ALA:O	2:M1:262:ILE:N	2.17	0.72
10:t2:53:UNK:O	10:t2:56:UNK:O	2.07	0.72
1:L3:181:LEU:O	1:L3:182:TYR:C	2.32	0.72
2:M3:176:PHE:CB	2:M3:179:LEU:H	2.03	0.72
1:L4:209:ILE:O	1:L4:212:LEU:CB	2.37	0.72
2:M4:189:SER:H	2:M4:191:SER:C	1.97	0.72
5:j1:21:UNK:O	5:j1:22:UNK:C	2.38	0.72
14:BA:1613:UNK:O	14:BA:1617:UNK:CB	2.37	0.72
2:M2:23:ILE:O	2:M2:25:VAL:N	2.21	0.72
10:t3:53:UNK:O	10:t3:56:UNK:O	2.07	0.72
1:L4:503:PRO:O	1:L4:507:LYS:N	2.19	0.72
2:M6:189:SER:H	2:M6:191:SER:C	1.97	0.72
1:L1:209:ILE:O	1:L1:212:LEU:CB	2.37	0.72
2:M2:176:PHE:CB	2:M2:179:LEU:H	2.03	0.72
1:L5:239:HIS:O	1:L5:240:PRO:O	2.06	0.72
2:M6:27:SER:O	2:M6:30:HIS:N	2.21	0.72
10:t1:53:UNK:O	10:t1:56:UNK:O	2.07	0.72
1:L6:165:TRP:O	1:L6:169:ARG:N	2.20	0.72
1:L1:503:PRO:O	1:L1:507:LYS:N	2.19	0.72
1:L2:67:GLN:CB	1:L2:76:TRP:CA	2.68	0.72
1:L2:181:LEU:O	1:L2:182:TYR:C	2.32	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BB:1613:UNK:O	14:BB:1617:UNK:CB	2.37	0.72
2:M5:27:SER:O	2:M5:30:HIS:N	2.21	0.72
2:M1:176:PHE:CB	2:M1:179:LEU:H	2.03	0.72
2:M3:23:ILE:O	2:M3:25:VAL:N	2.21	0.72
2:M5:258:ALA:O	2:M5:262:ILE:N	2.17	0.72
1:L6:161:LEU:CA	1:L6:163:ILE:N	2.46	0.72
1:L1:321:LEU:C	1:L1:324:VAL:H	1.98	0.72
2:M1:23:ILE:O	2:M1:25:VAL:N	2.21	0.72
3:f3:29:UNK:O	3:f3:30:UNK:CB	2.36	0.72
5:j3:21:UNK:O	5:j3:22:UNK:C	2.38	0.72
1:L6:207:GLN:HA	1:L6:208:GLN:CB	2.18	0.72
1:L4:239:HIS:O	1:L4:240:PRO:O	2.06	0.72
1:L4:321:LEU:C	1:L4:324:VAL:H	1.98	0.72
3:f4:29:UNK:O	3:f4:30:UNK:CB	2.36	0.72
1:L3:67:GLN:CB	1:L3:76:TRP:CA	2.68	0.72
1:L3:71:ILE:O	1:L3:72:SER:CB	2.36	0.72
2:M3:32:LEU:O	2:M3:35:SER:N	2.23	0.72
2:M5:372:THR:O	2:M5:376:ILE:N	2.20	0.72
14:BE:1613:UNK:O	14:BE:1617:UNK:CB	2.37	0.72
1:L6:239:HIS:O	1:L6:240:PRO:O	2.06	0.72
2:M1:32:LEU:O	2:M1:35:SER:N	2.23	0.72
3:f2:29:UNK:O	3:f2:30:UNK:CB	2.36	0.72
1:L3:321:LEU:C	1:L3:324:VAL:H	1.98	0.72
2:M4:176:PHE:CB	2:M4:179:LEU:H	2.03	0.72
10:t4:53:UNK:O	10:t4:56:UNK:O	2.07	0.72
1:L5:67:GLN:CB	1:L5:76:TRP:CA	2.68	0.72
1:L6:181:LEU:O	1:L6:182:TYR:C	2.32	0.72
2:M6:32:LEU:O	2:M6:35:SER:N	2.23	0.72
3:f1:29:UNK:O	3:f1:30:UNK:CB	2.36	0.71
1:L2:165:TRP:O	1:L2:169:ARG:N	2.21	0.71
14:BC:1613:UNK:O	14:BC:1617:UNK:CB	2.37	0.71
1:L4:67:GLN:CB	1:L4:76:TRP:CA	2.68	0.71
1:L4:207:GLN:HA	1:L4:208:GLN:CB	2.18	0.71
2:M6:23:ILE:O	2:M6:25:VAL:N	2.21	0.71
5:j4:21:UNK:O	5:j4:22:UNK:C	2.38	0.71
2:M3:279:GLN:CB	2:M3:280:THR:HA	2.20	0.71
2:M4:27:SER:O	2:M4:30:HIS:N	2.21	0.71
2:M4:279:GLN:CB	2:M4:280:THR:HA	2.20	0.71
1:L5:165:TRP:O	1:L5:169:ARG:N	2.21	0.71
2:M5:189:SER:H	2:M5:191:SER:C	1.97	0.71
1:L1:181:LEU:O	1:L1:182:TYR:C	2.32	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:g4:16:UNK:O	4:g4:17:UNK:C	2.38	0.71
1:L5:321:LEU:C	1:L5:324:VAL:H	1.98	0.71
2:M5:176:PHE:CB	2:M5:179:LEU:H	2.03	0.71
1:L1:165:TRP:O	1:L1:169:ARG:N	2.21	0.71
1:L2:321:LEU:C	1:L2:324:VAL:H	1.98	0.71
5:j2:21:UNK:O	5:j2:22:UNK:C	2.38	0.71
1:L4:182:TYR:O	1:L4:186:GLY:N	2.23	0.71
5:j6:21:UNK:O	5:j6:22:UNK:C	2.38	0.71
4:g1:16:UNK:O	4:g1:17:UNK:C	2.38	0.71
5:j5:21:UNK:O	5:j5:22:UNK:C	2.38	0.71
1:L6:67:GLN:CB	1:L6:76:TRP:CA	2.68	0.71
2:M6:279:GLN:CB	2:M6:280:THR:HA	2.20	0.71
4:g6:16:UNK:O	4:g6:17:UNK:C	2.38	0.71
1:L1:67:GLN:CB	1:L1:76:TRP:CA	2.68	0.71
1:L2:182:TYR:O	1:L2:186:GLY:N	2.23	0.71
5:j2:13:UNK:O	5:j2:14:UNK:C	2.34	0.71
2:M2:32:LEU:O	2:M2:35:SER:N	2.23	0.71
2:M2:279:GLN:CB	2:M2:280:THR:HA	2.20	0.71
2:M4:32:LEU:O	2:M4:35:SER:N	2.23	0.71
2:M4:372:THR:O	2:M4:376:ILE:N	2.20	0.70
2:M6:176:PHE:CB	2:M6:179:LEU:H	2.03	0.70
2:M1:60:SER:CB	2:M1:63:THR:H	2.05	0.70
2:M5:32:LEU:O	2:M5:35:SER:N	2.23	0.70
1:L6:321:LEU:C	1:L6:324:VAL:H	1.98	0.70
1:L1:182:TYR:O	1:L1:186:GLY:N	2.23	0.70
2:M5:23:ILE:O	2:M5:25:VAL:N	2.21	0.70
1:L4:34:THR:HA	1:L4:37:PRO:CB	2.22	0.70
2:M5:60:SER:CB	2:M5:63:THR:H	2.05	0.70
1:L5:161:LEU:CA	1:L5:163:ILE:N	2.46	0.70
5:p5:11:UNK:O	5:p5:14:UNK:N	2.25	0.70
2:M6:255:ASP:O	2:M6:258:ALA:HB3	1.92	0.70
2:M2:60:SER:CB	2:M2:63:THR:H	2.04	0.70
5:p2:11:UNK:O	5:p2:14:UNK:N	2.25	0.70
2:M4:255:ASP:O	2:M4:258:ALA:HB3	1.92	0.70
2:M5:255:ASP:O	2:M5:258:ALA:HB3	1.92	0.70
2:M1:279:GLN:CB	2:M1:280:THR:HA	2.20	0.70
4:g3:16:UNK:O	4:g3:17:UNK:C	2.38	0.70
2:M5:279:GLN:CB	2:M5:280:THR:HA	2.20	0.70
1:L1:472:ASN:O	1:L1:475:LYS:N	2.25	0.70
2:M2:189:SER:H	2:M2:191:SER:C	1.97	0.70
2:M2:372:THR:O	2:M2:376:ILE:N	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M3:189:SER:H	2:M3:191:SER:C	1.97	0.70
5:p4:11:UNK:O	5:p4:14:UNK:N	2.25	0.70
1:L6:182:TYR:O	1:L6:186:GLY:N	2.23	0.70
2:M1:241:TYR:O	2:M1:242:GLY:C	2.35	0.70
1:L5:182:TYR:O	1:L5:186:GLY:N	2.23	0.70
2:M6:60:SER:CB	2:M6:63:THR:H	2.05	0.70
2:M6:274:SER:O	2:M6:278:ARG:CB	2.40	0.70
1:L3:298:ALA:O	1:L3:301:ALA:HB3	1.92	0.69
2:M3:255:ASP:O	2:M3:258:ALA:HB3	1.92	0.69
2:M3:274:SER:O	2:M3:278:ARG:CB	2.40	0.69
1:L5:34:THR:HA	1:L5:37:PRO:CB	2.22	0.69
5:p6:11:UNK:O	5:p6:14:UNK:N	2.25	0.69
1:L4:298:ALA:O	1:L4:301:ALA:HB3	1.92	0.69
2:M2:274:SER:O	2:M2:278:ARG:CB	2.40	0.69
1:L3:34:THR:HA	1:L3:37:PRO:CB	2.22	0.69
1:L1:298:ALA:O	1:L1:301:ALA:HB3	1.92	0.69
2:M1:189:SER:H	2:M1:191:SER:C	1.97	0.69
2:M3:60:SER:CB	2:M3:63:THR:H	2.05	0.69
1:L4:151:GLY:O	1:L4:155:VAL:N	2.26	0.69
1:L1:34:THR:HA	1:L1:37:PRO:CB	2.22	0.69
2:M1:274:SER:O	2:M1:278:ARG:CB	2.40	0.69
2:M2:255:ASP:O	2:M2:258:ALA:HB3	1.92	0.69
2:M4:274:SER:O	2:M4:278:ARG:CB	2.40	0.69
4:g5:16:UNK:O	4:g5:17:UNK:C	2.38	0.69
2:M5:274:SER:O	2:M5:278:ARG:CB	2.40	0.69
1:L6:314:SER:O	1:L6:317:SER:CB	2.41	0.69
2:M6:241:TYR:O	2:M6:242:GLY:C	2.35	0.69
1:L2:314:SER:O	1:L2:317:SER:CB	2.41	0.69
4:g2:16:UNK:O	4:g2:17:UNK:C	2.38	0.69
1:L3:182:TYR:O	1:L3:186:GLY:N	2.23	0.69
1:L3:314:SER:O	1:L3:317:SER:CB	2.41	0.69
2:M3:241:TYR:O	2:M3:242:GLY:C	2.35	0.69
1:L4:321:LEU:CA	1:L4:324:VAL:CB	2.70	0.69
1:L5:151:GLY:O	1:L5:155:VAL:N	2.26	0.69
1:L5:298:ALA:O	1:L5:301:ALA:HB3	1.92	0.69
1:L5:314:SER:O	1:L5:317:SER:CB	2.41	0.69
2:M4:60:SER:CB	2:M4:63:THR:H	2.05	0.69
2:M5:241:TYR:O	2:M5:242:GLY:C	2.35	0.69
5:p1:11:UNK:O	5:p1:14:UNK:N	2.25	0.69
1:L2:34:THR:HA	1:L2:37:PRO:CB	2.22	0.69
1:L1:314:SER:O	1:L1:317:SER:CB	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L2:225:LEU:CA	1:L2:229:ALA:CB	2.59	0.68
1:L5:321:LEU:CA	1:L5:324:VAL:CB	2.70	0.68
1:L6:34:THR:HA	1:L6:37:PRO:CB	2.22	0.68
7:U2:43:UNK:O	7:U2:47:UNK:N	2.26	0.68
1:L4:419:ALA:O	1:L4:422:SER:CB	2.42	0.68
7:U5:43:UNK:O	7:U5:47:UNK:N	2.26	0.68
1:L1:223:ILE:C	1:L1:256:LEU:CB	2.67	0.68
1:L1:321:LEU:CA	1:L1:324:VAL:CB	2.70	0.68
7:U4:43:UNK:O	7:U4:47:UNK:N	2.26	0.68
7:U3:43:UNK:O	7:U3:47:UNK:N	2.26	0.68
1:L4:314:SER:O	1:L4:317:SER:CB	2.41	0.68
1:L6:151:GLY:O	1:L6:155:VAL:N	2.26	0.68
7:U6:43:UNK:O	7:U6:47:UNK:N	2.26	0.68
2:M1:255:ASP:O	2:M1:258:ALA:HB3	1.92	0.68
1:L2:223:ILE:C	1:L2:256:LEU:CB	2.66	0.68
5:p3:11:UNK:O	5:p3:14:UNK:N	2.25	0.68
2:M5:24:TRP:O	2:M5:27:SER:CB	2.42	0.68
14:BE:1600:UNK:O	14:BE:1604:UNK:N	2.27	0.68
1:L1:151:GLY:O	1:L1:155:VAL:N	2.26	0.68
1:L1:419:ALA:O	1:L1:422:SER:CB	2.42	0.68
1:L3:419:ALA:O	1:L3:422:SER:CB	2.42	0.68
2:M4:24:TRP:O	2:M4:27:SER:CB	2.42	0.68
1:L5:223:ILE:C	1:L5:256:LEU:CB	2.67	0.68
14:BA:1600:UNK:O	14:BA:1604:UNK:N	2.27	0.68
1:L2:419:ALA:O	1:L2:422:SER:CB	2.42	0.68
2:M2:220:HIS:O	2:M2:223:ALA:HB2	1.94	0.68
1:L3:151:GLY:O	1:L3:155:VAL:N	2.26	0.68
1:L3:223:ILE:C	1:L3:256:LEU:CB	2.67	0.68
2:M4:220:HIS:O	2:M4:223:ALA:HB2	1.94	0.68
14:BD:1600:UNK:O	14:BD:1604:UNK:N	2.27	0.68
1:L6:298:ALA:O	1:L6:301:ALA:HB3	1.92	0.68
1:L2:298:ALA:O	1:L2:301:ALA:HB3	1.92	0.68
2:M2:24:TRP:O	2:M2:27:SER:CB	2.42	0.68
1:L4:223:ILE:C	1:L4:256:LEU:CB	2.67	0.68
10:t6:34:UNK:O	10:t6:35:UNK:C	2.41	0.68
2:M1:24:TRP:O	2:M1:27:SER:CB	2.42	0.68
2:M2:241:TYR:O	2:M2:242:GLY:C	2.35	0.68
1:L6:223:ILE:C	1:L6:256:LEU:CB	2.67	0.68
14:BC:1600:UNK:O	14:BC:1604:UNK:N	2.27	0.68
8:n3:43:UNK:O	8:n3:44:UNK:C	2.42	0.67
7:U1:43:UNK:O	7:U1:47:UNK:N	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L2:226:ALA:HA	1:L2:284:SER:CB	2.25	0.67
2:M3:24:TRP:O	2:M3:27:SER:CB	2.42	0.67
3:i3:26:UNK:O	3:i3:28:UNK:O	2.12	0.67
1:L4:226:ALA:HA	1:L4:284:SER:CB	2.25	0.67
1:L1:281:TYR:CB	1:L1:315:THR:HA	2.25	0.67
10:t2:34:UNK:O	10:t2:35:UNK:C	2.41	0.67
1:L3:321:LEU:CA	1:L3:324:VAL:CB	2.70	0.67
1:L6:321:LEU:CA	1:L6:324:VAL:CB	2.70	0.67
1:L6:419:ALA:O	1:L6:422:SER:CB	2.42	0.67
10:t1:34:UNK:O	10:t1:35:UNK:C	2.42	0.67
14:BB:1600:UNK:O	14:BB:1604:UNK:N	2.27	0.67
2:M3:102:LEU:O	2:M3:106:LEU:CB	2.43	0.67
2:M4:241:TYR:O	2:M4:242:GLY:C	2.35	0.67
2:M1:31:SER:O	2:M1:32:LEU:C	2.37	0.67
1:L2:151:GLY:O	1:L2:155:VAL:N	2.26	0.67
1:L2:281:TYR:CB	1:L2:315:THR:HA	2.25	0.67
1:L2:321:LEU:CA	1:L2:324:VAL:CB	2.70	0.67
4:g3:11:UNK:O	4:g3:12:UNK:C	2.43	0.67
2:M6:102:LEU:O	2:M6:106:LEU:CB	2.43	0.67
14:BF:1600:UNK:O	14:BF:1604:UNK:N	2.27	0.67
2:M1:220:HIS:O	2:M1:223:ALA:HB2	1.94	0.67
2:M1:372:THR:O	2:M1:376:ILE:N	2.20	0.67
1:L2:178:GLN:CB	1:L2:222:LEU:CB	2.73	0.67
2:M3:220:HIS:O	2:M3:223:ALA:HB2	1.94	0.67
1:L5:281:TYR:CB	1:L5:315:THR:HA	2.25	0.67
4:g2:11:UNK:O	4:g2:12:UNK:C	2.43	0.67
1:L3:226:ALA:HA	1:L3:284:SER:CB	2.25	0.67
2:M4:278:ARG:O	2:M4:279:GLN:CB	2.43	0.67
4:g4:11:UNK:O	4:g4:12:UNK:C	2.43	0.67
12:v5:3:UNK:O	12:v5:4:UNK:C	2.41	0.67
2:M6:24:TRP:O	2:M6:27:SER:CB	2.42	0.67
3:i1:26:UNK:O	3:i1:28:UNK:O	2.12	0.67
2:M3:278:ARG:O	2:M3:279:GLN:CB	2.43	0.67
10:t3:34:UNK:O	10:t3:35:UNK:C	2.42	0.67
12:v3:3:UNK:C	12:v3:5:UNK:N	2.54	0.67
1:L6:178:GLN:CB	1:L6:222:LEU:CB	2.73	0.67
1:L6:226:ALA:HA	1:L6:284:SER:CB	2.25	0.67
1:L6:369:ILE:O	1:L6:373:GLY:N	2.26	0.67
1:L1:226:ALA:HA	1:L1:284:SER:CB	2.25	0.67
1:L4:281:TYR:CB	1:L4:315:THR:HA	2.25	0.67
2:M4:102:LEU:O	2:M4:106:LEU:CB	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:419:ALA:O	1:L5:422:SER:CB	2.42	0.67
8:n5:43:UNK:O	8:n5:44:UNK:C	2.42	0.67
1:L6:281:TYR:CB	1:L6:315:THR:HA	2.25	0.67
2:M6:220:HIS:O	2:M6:223:ALA:HB2	1.94	0.67
2:M6:372:THR:O	2:M6:376:ILE:N	2.20	0.67
1:L1:369:ILE:O	1:L1:373:GLY:N	2.26	0.67
8:n1:43:UNK:O	8:n1:44:UNK:C	2.42	0.67
12:v1:3:UNK:O	12:v1:4:UNK:C	2.41	0.67
1:L3:178:GLN:CB	1:L3:222:LEU:CB	2.73	0.67
1:L1:178:GLN:CB	1:L1:222:LEU:CB	2.73	0.66
1:L1:297:THR:HA	1:L1:355:ILE:HA	1.77	0.66
3:i2:26:UNK:O	3:i2:28:UNK:O	2.12	0.66
5:p2:11:UNK:O	5:p2:12:UNK:C	2.43	0.66
1:L3:281:TYR:CB	1:L3:315:THR:HA	2.25	0.66
2:M5:220:HIS:O	2:M5:223:ALA:HB2	1.94	0.66
4:g5:11:UNK:O	4:g5:12:UNK:C	2.43	0.66
8:n6:43:UNK:O	8:n6:44:UNK:C	2.42	0.66
12:v6:3:UNK:C	12:v6:5:UNK:N	2.54	0.66
1:L2:207:GLN:CB	1:L2:209:ILE:HA	2.25	0.66
1:L3:207:GLN:CB	1:L3:209:ILE:HA	2.25	0.66
3:i4:26:UNK:O	3:i4:28:UNK:O	2.12	0.66
3:i6:26:UNK:O	3:i6:28:UNK:O	2.12	0.66
4:g1:11:UNK:O	4:g1:12:UNK:C	2.43	0.66
8:n1:44:UNK:O	8:n1:48:UNK:N	2.29	0.66
1:L4:178:GLN:CB	1:L4:222:LEU:CB	2.73	0.66
1:L4:472:ASN:O	1:L4:475:LYS:N	2.25	0.66
1:L1:207:GLN:CB	1:L1:209:ILE:HA	2.26	0.66
8:n4:44:UNK:O	8:n4:48:UNK:N	2.29	0.66
2:M5:278:ARG:O	2:M5:279:GLN:CB	2.43	0.66
3:i5:26:UNK:O	3:i5:28:UNK:O	2.12	0.66
1:L6:207:GLN:CB	1:L6:209:ILE:HA	2.25	0.66
2:M6:278:ARG:O	2:M6:279:GLN:CB	2.43	0.66
5:p6:11:UNK:O	5:p6:12:UNK:C	2.43	0.66
2:M2:102:LEU:O	2:M2:106:LEU:CB	2.43	0.66
8:n4:43:UNK:O	8:n4:44:UNK:C	2.42	0.66
1:L5:178:GLN:CB	1:L5:222:LEU:CB	2.73	0.66
1:L5:472:ASN:O	1:L5:475:LYS:N	2.25	0.66
1:L6:61:MET:HA	1:L6:80:GLN:CB	2.26	0.66
1:L2:61:MET:HA	1:L2:80:GLN:CB	2.26	0.66
1:L2:472:ASN:O	1:L2:475:LYS:N	2.25	0.66
2:M5:102:LEU:O	2:M5:106:LEU:CB	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:n5:44:UNK:O	8:n5:48:UNK:N	2.29	0.66
12:v2:3:UNK:C	12:v2:5:UNK:N	2.54	0.66
1:L5:226:ALA:HA	1:L5:284:SER:CB	2.25	0.66
1:L5:297:THR:HA	1:L5:355:ILE:HA	1.77	0.66
8:n2:44:UNK:O	8:n2:48:UNK:N	2.29	0.66
12:v4:3:UNK:C	12:v4:5:UNK:N	2.54	0.66
2:M3:281:ASP:O	2:M3:284:SER:N	2.29	0.66
8:n3:44:UNK:O	8:n3:48:UNK:N	2.29	0.66
1:L4:297:THR:HA	1:L4:355:ILE:HA	1.77	0.66
2:M5:281:ASP:O	2:M5:284:SER:N	2.29	0.66
8:n6:44:UNK:O	8:n6:48:UNK:N	2.29	0.66
2:M1:102:LEU:O	2:M1:106:LEU:CB	2.43	0.66
2:M1:281:ASP:O	2:M1:284:SER:N	2.29	0.66
1:L2:46:THR:O	1:L2:49:SER:N	2.27	0.66
1:L3:46:THR:O	1:L3:49:SER:N	2.27	0.66
1:L3:297:THR:HA	1:L3:355:ILE:HA	1.77	0.66
1:L5:180:ILE:O	1:L5:181:LEU:C	2.37	0.66
10:t1:6:UNK:O	10:t1:7:UNK:C	2.44	0.65
2:M3:327:PHE:O	2:M3:330:ALA:HB3	1.97	0.65
1:L4:369:ILE:O	1:L4:373:GLY:N	2.26	0.65
1:L5:61:MET:HA	1:L5:80:GLN:CB	2.26	0.65
10:t6:6:UNK:O	10:t6:7:UNK:C	2.44	0.65
1:L1:61:MET:HA	1:L1:80:GLN:CB	2.26	0.65
1:L4:180:ILE:O	1:L4:181:LEU:C	2.37	0.65
5:p4:11:UNK:O	5:p4:12:UNK:C	2.43	0.65
1:L5:369:ILE:O	1:L5:373:GLY:N	2.26	0.65
4:g1:11:UNK:O	4:g1:14:UNK:N	2.30	0.65
2:M2:60:SER:O	2:M2:62:SER:O	2.15	0.65
8:n2:43:UNK:O	8:n2:44:UNK:C	2.42	0.65
2:M3:60:SER:O	2:M3:62:SER:O	2.15	0.65
2:M4:327:PHE:O	2:M4:330:ALA:HB3	1.97	0.65
1:L5:207:GLN:CB	1:L5:209:ILE:HA	2.26	0.65
1:L5:326:ILE:O	1:L5:330:GLN:N	2.29	0.65
12:v4:3:UNK:O	12:v4:4:UNK:C	2.41	0.65
2:M5:31:SER:O	2:M5:32:LEU:C	2.37	0.65
4:g5:11:UNK:O	4:g5:14:UNK:N	2.30	0.65
5:p3:11:UNK:O	5:p3:12:UNK:C	2.43	0.65
1:L6:297:THR:HA	1:L6:355:ILE:HA	1.78	0.65
2:M1:327:PHE:O	2:M1:330:ALA:HB3	1.97	0.65
1:L2:297:THR:HA	1:L2:355:ILE:HA	1.77	0.65
4:g2:11:UNK:O	4:g2:14:UNK:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L3:435:ALA:HB3	14:BC:1644:UNK:CA	2.21	0.65
1:L4:61:MET:HA	1:L4:80:GLN:CB	2.26	0.65
1:L4:207:GLN:CB	1:L4:209:ILE:HA	2.26	0.65
2:M6:281:ASP:O	2:M6:284:SER:N	2.29	0.65
10:t6:21:UNK:O	10:t6:23:UNK:N	2.30	0.65
2:M2:278:ARG:O	2:M2:279:GLN:CB	2.43	0.65
2:M2:281:ASP:O	2:M2:284:SER:N	2.29	0.65
10:t2:6:UNK:O	10:t2:7:UNK:C	2.44	0.65
2:M3:271:MET:O	2:M3:274:SER:N	2.30	0.65
12:v3:3:UNK:O	12:v3:4:UNK:C	2.41	0.65
4:g4:11:UNK:O	4:g4:14:UNK:N	2.30	0.65
4:g6:11:UNK:O	4:g6:12:UNK:C	2.43	0.65
2:M1:60:SER:O	2:M1:62:SER:O	2.15	0.65
2:M2:271:MET:O	2:M2:274:SER:N	2.30	0.65
2:M2:327:PHE:O	2:M2:330:ALA:HB3	1.97	0.65
2:M5:271:MET:O	2:M5:274:SER:N	2.30	0.65
2:M6:60:SER:O	2:M6:62:SER:O	2.15	0.65
1:L1:435:ALA:HB3	14:BA:1644:UNK:CA	2.21	0.65
2:M2:31:SER:O	2:M2:32:LEU:C	2.37	0.65
10:t2:21:UNK:O	10:t2:23:UNK:N	2.30	0.65
4:g6:11:UNK:O	4:g6:14:UNK:N	2.30	0.65
4:g3:11:UNK:O	4:g3:14:UNK:N	2.30	0.65
2:M6:32:LEU:O	2:M6:34:ILE:N	2.30	0.65
2:M1:278:ARG:O	2:M1:279:GLN:CB	2.43	0.64
2:M2:32:LEU:O	2:M2:34:ILE:N	2.30	0.64
1:L4:46:THR:O	1:L4:49:SER:N	2.27	0.64
2:M4:32:LEU:O	2:M4:34:ILE:N	2.30	0.64
2:M6:271:MET:O	2:M6:274:SER:N	2.30	0.64
1:L1:46:THR:O	1:L1:49:SER:N	2.27	0.64
2:M3:32:LEU:O	2:M3:34:ILE:N	2.30	0.64
2:M3:432:ARG:O	2:M3:435:ALA:CB	2.45	0.64
14:BC:1590:UNK:CB	14:BF:547:UNK:CB	2.75	0.64
2:M4:60:SER:O	2:M4:62:SER:O	2.15	0.64
2:M4:382:VAL:O	2:M4:385:THR:N	2.31	0.64
2:M5:32:LEU:O	2:M5:34:ILE:N	2.30	0.64
8:n5:25:UNK:O	8:n5:26:UNK:C	2.45	0.64
10:t5:6:UNK:O	10:t5:7:UNK:C	2.44	0.64
2:M1:271:MET:O	2:M1:274:SER:N	2.30	0.64
2:M1:342:MET:O	2:M1:343:ILE:CB	2.45	0.64
2:M1:382:VAL:O	2:M1:385:THR:N	2.31	0.64
1:L3:61:MET:HA	1:L3:80:GLN:CB	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:t3:6:UNK:O	10:t3:7:UNK:C	2.44	0.64
10:t4:21:UNK:O	10:t4:23:UNK:N	2.30	0.64
10:t4:34:UNK:O	10:t4:35:UNK:C	2.41	0.64
1:L3:180:ILE:O	1:L3:181:LEU:C	2.37	0.64
1:L3:472:ASN:O	1:L3:475:LYS:N	2.25	0.64
2:M3:281:ASP:O	2:M3:284:SER:CA	2.46	0.64
10:t3:21:UNK:O	10:t3:23:UNK:N	2.30	0.64
2:M6:281:ASP:O	2:M6:284:SER:CA	2.46	0.64
1:L1:209:ILE:O	1:L1:212:LEU:CA	2.46	0.64
2:M1:343:ILE:C	2:M1:345:ALA:H	2.06	0.64
1:L2:209:ILE:O	1:L2:212:LEU:CA	2.46	0.64
2:M5:21:ASN:O	2:M5:22:MET:C	2.41	0.64
2:M1:281:ASP:O	2:M1:284:SER:CA	2.46	0.64
2:M2:382:VAL:O	2:M2:385:THR:N	2.31	0.64
1:L3:326:ILE:O	1:L3:330:GLN:N	2.29	0.64
14:BC:1588:UNK:H	14:BF:547:UNK:CB	2.07	0.64
2:M4:281:ASP:O	2:M4:284:SER:N	2.29	0.64
2:M5:327:PHE:O	2:M5:330:ALA:HB3	1.97	0.64
10:t5:21:UNK:O	10:t5:23:UNK:N	2.30	0.64
12:v5:3:UNK:C	12:v5:5:UNK:N	2.54	0.64
2:M6:31:SER:O	2:M6:32:LEU:C	2.37	0.64
2:M6:327:PHE:O	2:M6:330:ALA:HB3	1.97	0.64
1:L1:180:ILE:O	1:L1:181:LEU:C	2.37	0.64
2:M1:21:ASN:O	2:M1:22:MET:C	2.41	0.64
2:M6:342:MET:O	2:M6:343:ILE:CB	2.45	0.64
2:M6:382:VAL:O	2:M6:385:THR:N	2.31	0.64
12:v6:3:UNK:O	12:v6:4:UNK:C	2.41	0.64
2:M3:21:ASN:O	2:M3:22:MET:C	2.41	0.64
2:M4:21:ASN:O	2:M4:22:MET:C	2.41	0.64
2:M4:432:ARG:O	2:M4:435:ALA:CB	2.45	0.64
8:n4:25:UNK:O	8:n4:26:UNK:C	2.45	0.64
2:M5:281:ASP:O	2:M5:284:SER:CA	2.46	0.64
10:t1:21:UNK:O	10:t1:23:UNK:N	2.30	0.64
1:L4:209:ILE:O	1:L4:212:LEU:CA	2.46	0.64
2:M4:167:ILE:O	2:M4:171:VAL:N	2.26	0.64
2:M5:343:ILE:C	2:M5:345:ALA:H	2.06	0.64
2:M5:382:VAL:O	2:M5:385:THR:N	2.31	0.64
8:n2:25:UNK:O	8:n2:26:UNK:C	2.45	0.64
1:L3:209:ILE:O	1:L3:212:LEU:CA	2.46	0.64
2:M3:382:VAL:O	2:M3:385:THR:N	2.31	0.64
2:M4:281:ASP:O	2:M4:284:SER:CA	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M5:432:ARG:O	2:M5:435:ALA:CB	2.45	0.64
1:L6:209:ILE:O	1:L6:212:LEU:CA	2.46	0.64
2:M1:432:ARG:O	2:M1:435:ALA:CB	2.46	0.63
2:M4:343:ILE:C	2:M4:345:ALA:H	2.06	0.63
2:M4:271:MET:O	2:M4:274:SER:N	2.30	0.63
1:L1:326:ILE:O	1:L1:330:GLN:N	2.29	0.63
2:M1:60:SER:C	2:M1:63:THR:N	2.57	0.63
8:n1:25:UNK:O	8:n1:26:UNK:C	2.45	0.63
1:L5:46:THR:O	1:L5:49:SER:N	2.27	0.63
2:M1:32:LEU:O	2:M1:34:ILE:N	2.30	0.63
2:M2:21:ASN:O	2:M2:22:MET:C	2.41	0.63
10:t4:6:UNK:O	10:t4:7:UNK:C	2.44	0.63
2:M1:68:LEU:O	2:M1:70:MET:N	2.32	0.63
2:M2:342:MET:O	2:M2:343:ILE:CB	2.45	0.63
2:M3:343:ILE:C	2:M3:345:ALA:H	2.06	0.63
2:M4:68:LEU:O	2:M4:70:MET:N	2.32	0.63
2:M5:60:SER:O	2:M5:62:SER:O	2.15	0.63
5:p1:11:UNK:O	5:p1:12:UNK:C	2.43	0.63
2:M2:68:LEU:O	2:M2:70:MET:N	2.32	0.63
2:M2:343:ILE:C	2:M2:345:ALA:H	2.06	0.63
2:M2:432:ARG:O	2:M2:435:ALA:CB	2.46	0.63
12:v2:3:UNK:O	12:v2:4:UNK:C	2.41	0.63
2:M3:342:MET:O	2:M3:343:ILE:CB	2.45	0.63
1:L4:420:ASN:O	1:L4:424:THR:N	2.31	0.63
7:U5:62:UNK:CB	7:U5:66:UNK:CB	2.77	0.63
10:t5:34:UNK:O	10:t5:35:UNK:C	2.42	0.63
1:L6:326:ILE:O	1:L6:330:GLN:N	2.29	0.63
2:M6:21:ASN:O	2:M6:22:MET:C	2.41	0.63
2:M3:60:SER:C	2:M3:63:THR:N	2.57	0.63
2:M3:167:ILE:O	2:M3:171:VAL:N	2.26	0.63
7:U3:62:UNK:CB	7:U3:66:UNK:CB	2.77	0.63
8:n3:25:UNK:O	8:n3:26:UNK:C	2.45	0.63
1:L4:326:ILE:O	1:L4:330:GLN:N	2.29	0.63
2:M5:342:MET:O	2:M5:343:ILE:CB	2.45	0.63
14:BA:1637:UNK:HA	14:BA:1639:UNK:N	2.14	0.62
2:M5:60:SER:C	2:M5:63:THR:N	2.57	0.62
14:BF:1637:UNK:HA	14:BF:1639:UNK:N	2.14	0.62
3:h1:9:UNK:O	3:h1:12:UNK:N	2.32	0.62
7:U1:62:UNK:CB	7:U1:66:UNK:CB	2.77	0.62
2:M2:60:SER:C	2:M2:63:THR:N	2.57	0.62
2:M2:281:ASP:O	2:M2:284:SER:CA	2.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M3:31:SER:O	2:M3:32:LEU:C	2.37	0.62
2:M4:60:SER:C	2:M4:63:THR:N	2.57	0.62
7:U4:62:UNK:CB	7:U4:66:UNK:CB	2.77	0.62
14:BD:1637:UNK:HA	14:BD:1639:UNK:N	2.14	0.62
1:L5:435:ALA:HB3	14:BE:1644:UNK:CA	2.21	0.62
8:n5:43:UNK:C	8:n5:45:UNK:N	2.59	0.62
5:p5:11:UNK:O	5:p5:12:UNK:C	2.43	0.62
2:M4:32:LEU:O	2:M4:33:LEU:C	2.42	0.62
2:M6:32:LEU:O	2:M6:33:LEU:C	2.42	0.62
2:M6:343:ILE:C	2:M6:345:ALA:H	2.06	0.62
14:BB:1637:UNK:HA	14:BB:1639:UNK:N	2.14	0.62
3:h4:9:UNK:O	3:h4:12:UNK:N	2.32	0.62
2:M5:32:LEU:O	2:M5:33:LEU:C	2.42	0.62
2:M6:60:SER:C	2:M6:63:THR:N	2.57	0.62
3:h2:9:UNK:O	3:h2:12:UNK:N	2.32	0.62
1:L5:209:ILE:O	1:L5:212:LEU:CA	2.46	0.62
8:n2:21:UNK:O	8:n2:22:UNK:CB	2.48	0.62
2:M4:31:SER:O	2:M4:32:LEU:C	2.37	0.62
8:n6:25:UNK:O	8:n6:26:UNK:C	2.45	0.62
3:h5:9:UNK:O	3:h5:12:UNK:N	2.32	0.62
1:L6:180:ILE:O	1:L6:181:LEU:C	2.37	0.62
1:L2:180:ILE:O	1:L2:181:LEU:C	2.37	0.62
7:U2:62:UNK:CB	7:U2:66:UNK:CB	2.77	0.62
3:h3:9:UNK:O	3:h3:12:UNK:N	2.32	0.62
2:M6:432:ARG:O	2:M6:435:ALA:CB	2.45	0.62
1:L1:376:PHE:O	1:L1:378:ALA:N	2.33	0.62
1:L2:369:ILE:O	1:L2:373:GLY:N	2.26	0.62
2:M4:342:MET:O	2:M4:343:ILE:CB	2.45	0.62
2:M3:68:LEU:O	2:M3:70:MET:N	2.32	0.62
8:n3:21:UNK:O	8:n3:22:UNK:CB	2.48	0.62
14:BE:1637:UNK:HA	14:BE:1639:UNK:N	2.14	0.62
12:v1:3:UNK:C	12:v1:5:UNK:N	2.54	0.61
1:L2:309:LYS:O	1:L2:312:ALA:HB3	2.00	0.61
1:L3:321:LEU:C	1:L3:324:VAL:CB	2.73	0.61
2:M3:32:LEU:O	2:M3:33:LEU:C	2.42	0.61
14:BE:1614:UNK:O	14:BE:1615:UNK:C	2.48	0.61
2:M6:167:ILE:O	2:M6:171:VAL:N	2.26	0.61
7:U6:62:UNK:CB	7:U6:66:UNK:CB	2.77	0.61
1:L1:321:LEU:C	1:L1:324:VAL:CB	2.73	0.61
2:M1:168:GLN:CB	2:M1:174:LEU:HA	2.30	0.61
1:L2:321:LEU:C	1:L2:324:VAL:CB	2.73	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:n4:21:UNK:O	8:n4:22:UNK:CB	2.48	0.61
2:M6:168:GLN:CB	2:M6:174:LEU:HA	2.30	0.61
1:L5:375:LEU:O	1:L5:378:ALA:HB3	2.01	0.61
1:L5:376:PHE:O	1:L5:378:ALA:N	2.33	0.61
1:L6:309:LYS:O	1:L6:312:ALA:HB3	2.00	0.61
1:L6:376:PHE:O	1:L6:378:ALA:N	2.33	0.61
2:M6:68:LEU:O	2:M6:70:MET:N	2.32	0.61
3:h6:9:UNK:O	3:h6:12:UNK:N	2.32	0.61
1:L1:309:LYS:O	1:L1:312:ALA:HB3	2.00	0.61
1:L2:376:PHE:O	1:L2:378:ALA:N	2.33	0.61
1:L3:375:LEU:O	1:L3:376:PHE:C	2.43	0.61
1:L3:376:PHE:O	1:L3:378:ALA:N	2.33	0.61
8:n3:5:UNK:O	8:n3:6:UNK:C	2.48	0.61
14:BD:1614:UNK:O	14:BD:1615:UNK:C	2.48	0.61
14:BA:1614:UNK:O	14:BA:1615:UNK:C	2.48	0.61
1:L2:375:LEU:O	1:L2:378:ALA:HB3	2.00	0.61
13:w3:3:UNK:O	13:w3:6:UNK:N	2.33	0.61
1:L4:309:LYS:O	1:L4:312:ALA:HB3	2.00	0.61
1:L4:376:PHE:O	1:L4:378:ALA:N	2.33	0.61
1:L6:375:LEU:O	1:L6:378:ALA:HB3	2.00	0.61
13:w1:3:UNK:O	13:w1:6:UNK:N	2.34	0.61
2:M2:167:ILE:O	2:M2:171:VAL:N	2.26	0.61
8:n5:21:UNK:O	8:n5:22:UNK:CB	2.48	0.61
8:n6:43:UNK:C	8:n6:45:UNK:N	2.60	0.61
8:n1:21:UNK:O	8:n1:22:UNK:CB	2.48	0.61
8:n1:43:UNK:C	8:n1:45:UNK:N	2.60	0.61
13:w2:3:UNK:O	13:w2:6:UNK:N	2.33	0.61
1:L3:309:LYS:O	1:L3:312:ALA:HB3	2.00	0.61
1:L5:309:LYS:O	1:L5:312:ALA:HB3	2.00	0.61
2:M5:68:LEU:O	2:M5:70:MET:N	2.32	0.61
8:n6:21:UNK:O	8:n6:22:UNK:CB	2.48	0.61
2:M2:168:GLN:CB	2:M2:174:LEU:HA	2.30	0.61
14:BB:1614:UNK:O	14:BB:1615:UNK:C	2.48	0.61
2:M3:168:GLN:CB	2:M3:174:LEU:HA	2.30	0.61
8:n3:43:UNK:C	8:n3:45:UNK:N	2.60	0.61
5:s3:23:UNK:O	5:s3:26:UNK:CB	2.49	0.61
1:L4:375:LEU:O	1:L4:378:ALA:HB3	2.01	0.61
2:M4:168:GLN:CB	2:M4:174:LEU:HA	2.30	0.61
13:w4:3:UNK:O	13:w4:6:UNK:N	2.33	0.61
1:L6:46:THR:O	1:L6:49:SER:N	2.27	0.61
1:L6:375:LEU:O	1:L6:376:PHE:C	2.43	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s6:23:UNK:O	5:s6:26:UNK:CB	2.49	0.61
14:BC:1591:UNK:CB	14:BF:547:UNK:O	2.49	0.61
1:L4:321:LEU:C	1:L4:324:VAL:CB	2.73	0.61
1:L5:321:LEU:C	1:L5:324:VAL:CB	2.73	0.61
1:L6:472:ASN:O	1:L6:475:LYS:N	2.25	0.61
6:l1:19:UNK:O	6:l1:22:UNK:O	2.19	0.60
1:L2:250:THR:O	1:L2:254:ALA:HB3	2.01	0.60
14:BC:1614:UNK:O	14:BC:1615:UNK:C	2.49	0.60
2:M5:68:LEU:O	2:M5:71:TRP:N	2.34	0.60
1:L6:435:ALA:HB3	14:BF:1644:UNK:CA	2.21	0.60
2:M2:32:LEU:O	2:M2:33:LEU:C	2.42	0.60
1:L3:250:THR:O	1:L3:254:ALA:HB3	2.02	0.60
2:M3:271:MET:O	2:M3:272:THR:C	2.45	0.60
8:n3:9:UNK:O	8:n3:12:UNK:N	2.35	0.60
8:n4:52:UNK:O	8:n4:55:UNK:N	2.35	0.60
1:L5:375:LEU:O	1:L5:376:PHE:C	2.43	0.60
2:M6:123:GLU:O	2:M6:126:LEU:N	2.31	0.60
2:M2:137:GLY:O	2:M2:138:ASN:CB	2.50	0.60
5:s2:23:UNK:O	5:s2:26:UNK:CB	2.49	0.60
1:L3:375:LEU:O	1:L3:378:ALA:HB3	2.01	0.60
14:BC:1637:UNK:HA	14:BC:1639:UNK:N	2.14	0.60
6:l4:19:UNK:O	6:l4:22:UNK:O	2.20	0.60
8:n4:9:UNK:O	8:n4:12:UNK:N	2.35	0.60
1:L6:250:THR:O	1:L6:254:ALA:HB3	2.01	0.60
1:L1:242:LEU:O	1:L1:245:ALA:HB3	2.02	0.60
1:L1:375:LEU:O	1:L1:376:PHE:C	2.43	0.60
2:M4:137:GLY:O	2:M4:138:ASN:CB	2.50	0.60
5:s4:23:UNK:O	5:s4:26:UNK:CB	2.49	0.60
1:L5:250:THR:O	1:L5:254:ALA:HB3	2.02	0.60
1:L6:420:ASN:O	1:L6:424:THR:N	2.31	0.60
8:n6:9:UNK:O	8:n6:12:UNK:N	2.35	0.60
2:M1:32:LEU:O	2:M1:33:LEU:C	2.42	0.60
5:s1:23:UNK:O	5:s1:26:UNK:CB	2.49	0.60
8:n2:43:UNK:C	8:n2:45:UNK:N	2.60	0.60
10:t2:20:UNK:O	10:t2:21:UNK:CB	2.50	0.60
2:M4:271:MET:O	2:M4:272:THR:C	2.45	0.60
1:L5:242:LEU:O	1:L5:245:ALA:HB3	2.02	0.60
2:M1:68:LEU:O	2:M1:71:TRP:N	2.34	0.60
8:n1:9:UNK:O	8:n1:12:UNK:N	2.35	0.60
8:n1:52:UNK:O	8:n1:55:UNK:N	2.35	0.60
1:L4:242:LEU:O	1:L4:245:ALA:HB3	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M5:167:ILE:O	2:M5:171:VAL:N	2.26	0.60
2:M5:168:GLN:CB	2:M5:174:LEU:HA	2.30	0.60
5:s5:23:UNK:O	5:s5:26:UNK:CB	2.49	0.60
13:w6:3:UNK:O	13:w6:6:UNK:N	2.33	0.60
14:BC:1614:UNK:C	14:BC:1617:UNK:N	2.65	0.60
1:L4:250:THR:O	1:L4:254:ALA:HB3	2.02	0.60
2:M5:375:LEU:O	2:M5:379:LEU:N	2.30	0.60
1:L6:321:LEU:C	1:L6:324:VAL:CB	2.73	0.60
3:i6:23:UNK:O	3:i6:26:UNK:CB	2.50	0.60
8:n6:52:UNK:O	8:n6:55:UNK:N	2.35	0.60
10:t6:20:UNK:O	10:t6:21:UNK:CB	2.50	0.60
14:BF:1614:UNK:C	14:BF:1617:UNK:N	2.65	0.60
1:L1:375:LEU:O	1:L1:378:ALA:HB3	2.00	0.60
1:L2:242:LEU:O	1:L2:245:ALA:HB3	2.02	0.60
1:L2:375:LEU:O	1:L2:376:PHE:C	2.43	0.60
2:M2:180:GLN:O	2:M2:181:TYR:C	2.44	0.60
2:M3:68:LEU:O	2:M3:71:TRP:N	2.34	0.60
6:l5:19:UNK:O	6:l5:22:UNK:O	2.20	0.60
10:t5:20:UNK:O	10:t5:21:UNK:CB	2.50	0.60
13:w5:3:UNK:O	13:w5:6:UNK:N	2.33	0.60
2:M6:137:GLY:O	2:M6:138:ASN:CB	2.50	0.60
2:M6:180:GLN:O	2:M6:181:TYR:C	2.44	0.60
8:n6:5:UNK:O	8:n6:6:UNK:C	2.48	0.60
1:L2:326:ILE:O	1:L2:330:GLN:N	2.29	0.60
2:M2:324:SER:O	2:M2:328:CYS:CB	2.50	0.60
8:n2:5:UNK:O	8:n2:6:UNK:C	2.48	0.60
8:n2:9:UNK:O	8:n2:12:UNK:N	2.35	0.60
14:BB:1614:UNK:C	14:BB:1617:UNK:N	2.65	0.60
1:L3:242:LEU:O	1:L3:245:ALA:HB3	2.02	0.60
2:M3:324:SER:O	2:M3:328:CYS:CB	2.50	0.60
1:L4:375:LEU:O	1:L4:376:PHE:C	2.43	0.60
3:i4:23:UNK:O	3:i4:26:UNK:CB	2.50	0.60
12:v5:20:UNK:O	12:v5:24:UNK:N	2.35	0.60
8:n1:5:UNK:O	8:n1:6:UNK:C	2.48	0.60
12:v1:20:UNK:O	12:v1:24:UNK:N	2.35	0.60
2:M2:356:ALA:O	2:M2:360:UNK:N	2.35	0.60
1:L3:420:ASN:O	1:L3:424:THR:N	2.31	0.60
2:M3:180:GLN:O	2:M3:181:TYR:C	2.44	0.60
12:v3:20:UNK:O	12:v3:24:UNK:N	2.35	0.60
2:M5:137:GLY:O	2:M5:138:ASN:CB	2.50	0.60
2:M3:137:GLY:O	2:M3:138:ASN:CB	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M5:123:GLU:O	2:M5:126:LEU:N	2.31	0.59
3:i5:23:UNK:O	3:i5:26:UNK:CB	2.50	0.59
8:n5:52:UNK:O	8:n5:55:UNK:N	2.35	0.59
2:M6:324:SER:O	2:M6:328:CYS:CB	2.50	0.59
2:M6:356:ALA:O	2:M6:360:UNK:N	2.35	0.59
1:L1:475:LYS:O	1:L1:479:ILE:CB	2.51	0.59
2:M1:180:GLN:O	2:M1:181:TYR:C	2.44	0.59
2:M1:324:SER:O	2:M1:328:CYS:CB	2.50	0.59
8:n2:52:UNK:O	8:n2:55:UNK:N	2.34	0.59
1:L3:128:TYR:O	1:L3:131:LEU:N	2.36	0.59
8:n3:52:UNK:O	8:n3:55:UNK:N	2.35	0.59
1:L5:475:LYS:O	1:L5:479:ILE:CB	2.51	0.59
2:M6:68:LEU:O	2:M6:71:TRP:N	2.34	0.59
1:L1:210:PHE:O	1:L1:211:MET:C	2.45	0.59
1:L1:250:THR:O	1:L1:254:ALA:HB3	2.02	0.59
2:M1:108:MET:CA	2:M1:111:THR:CB	2.80	0.59
1:L2:211:MET:O	1:L2:214:PRO:CB	2.51	0.59
1:L2:316:SER:O	1:L2:319:LEU:CB	2.51	0.59
1:L4:316:SER:O	1:L4:319:LEU:CB	2.51	0.59
1:L5:420:ASN:O	1:L5:424:THR:N	2.31	0.59
14:BF:1614:UNK:O	14:BF:1615:UNK:C	2.48	0.59
1:L1:128:TYR:O	1:L1:131:LEU:N	2.36	0.59
2:M1:356:ALA:O	2:M1:360:UNK:N	2.35	0.59
2:M2:68:LEU:O	2:M2:71:TRP:N	2.34	0.59
2:M2:108:MET:CA	2:M2:111:THR:CB	2.80	0.59
3:i2:23:UNK:O	3:i2:26:UNK:CB	2.50	0.59
5:j2:14:UNK:O	5:j2:17:UNK:CB	2.51	0.59
6:l2:19:UNK:O	6:l2:22:UNK:O	2.19	0.59
12:v2:20:UNK:O	12:v2:24:UNK:N	2.35	0.59
10:t3:20:UNK:O	10:t3:21:UNK:CB	2.50	0.59
2:M4:68:LEU:O	2:M4:71:TRP:N	2.34	0.59
2:M4:180:GLN:O	2:M4:181:TYR:C	2.44	0.59
2:M4:356:ALA:O	2:M4:360:UNK:N	2.35	0.59
5:k4:23:UNK:O	5:k4:26:UNK:CB	2.51	0.59
12:v4:20:UNK:O	12:v4:24:UNK:N	2.35	0.59
8:n5:9:UNK:O	8:n5:12:UNK:N	2.35	0.59
2:M1:137:GLY:O	2:M1:138:ASN:CB	2.50	0.59
1:L3:211:MET:O	1:L3:214:PRO:CB	2.51	0.59
2:M3:123:GLU:O	2:M3:126:LEU:N	2.31	0.59
2:M5:108:MET:CA	2:M5:111:THR:CB	2.81	0.59
5:k2:23:UNK:O	5:k2:26:UNK:CB	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k3:23:UNK:O	5:k3:26:UNK:CB	2.51	0.59
6:l3:19:UNK:O	6:l3:22:UNK:O	2.19	0.59
1:L4:475:LYS:O	1:L4:479:ILE:CB	2.51	0.59
14:BD:547:UNK:O	14:BE:1588:UNK:C	2.50	0.59
10:t5:9:UNK:O	10:t5:12:UNK:N	2.36	0.59
14:BE:1614:UNK:C	14:BE:1617:UNK:N	2.65	0.59
1:L6:316:SER:O	1:L6:319:LEU:CB	2.51	0.59
6:l6:19:UNK:O	6:l6:22:UNK:O	2.19	0.59
2:M1:167:ILE:O	2:M1:171:VAL:N	2.26	0.59
3:i1:23:UNK:O	3:i1:26:UNK:CB	2.50	0.59
2:M4:108:MET:CA	2:M4:111:THR:CB	2.80	0.59
5:j4:14:UNK:O	5:j4:17:UNK:CB	2.51	0.59
8:n4:43:UNK:C	8:n4:45:UNK:N	2.60	0.59
2:M5:180:GLN:O	2:M5:181:TYR:C	2.44	0.59
5:j6:14:UNK:O	5:j6:17:UNK:CB	2.51	0.59
7:U6:9:UNK:O	7:U6:12:UNK:CB	2.51	0.59
5:j1:14:UNK:O	5:j1:17:UNK:CB	2.51	0.59
14:BA:1614:UNK:C	14:BA:1617:UNK:N	2.65	0.59
1:L3:316:SER:O	1:L3:319:LEU:CB	2.51	0.59
2:M4:324:SER:O	2:M4:328:CYS:CB	2.50	0.59
1:L5:211:MET:O	1:L5:214:PRO:CB	2.51	0.59
1:L6:48:ILE:O	1:L6:51:ALA:HB3	2.03	0.59
2:M6:271:MET:O	2:M6:272:THR:C	2.45	0.59
2:M2:123:GLU:O	2:M2:126:LEU:N	2.31	0.59
10:t3:9:UNK:O	10:t3:12:UNK:N	2.36	0.59
12:v6:20:UNK:O	12:v6:24:UNK:N	2.35	0.59
1:L1:316:SER:O	1:L1:319:LEU:CB	2.51	0.59
7:U1:9:UNK:O	7:U1:12:UNK:CB	2.51	0.59
7:U2:9:UNK:O	7:U2:12:UNK:CB	2.51	0.59
2:M3:42:MET:O	2:M3:44:GLN:N	2.36	0.59
3:i3:23:UNK:O	3:i3:26:UNK:CB	2.50	0.59
7:U4:9:UNK:O	7:U4:12:UNK:CB	2.51	0.59
5:j5:14:UNK:O	5:j5:17:UNK:CB	2.51	0.59
1:L6:128:TYR:O	1:L6:131:LEU:N	2.36	0.59
1:L6:242:LEU:O	1:L6:245:ALA:HB3	2.02	0.59
2:M6:375:LEU:O	2:M6:379:LEU:N	2.30	0.59
1:L1:211:MET:O	1:L1:214:PRO:CB	2.51	0.58
2:M1:271:MET:O	2:M1:272:THR:C	2.45	0.58
1:L4:376:PHE:O	1:L4:377:LYS:C	2.46	0.58
1:L6:475:LYS:O	1:L6:479:ILE:CB	2.51	0.58
2:M6:42:MET:O	2:M6:44:GLN:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L1:48:ILE:O	1:L1:51:ALA:HB3	2.03	0.58
1:L2:48:ILE:O	1:L2:51:ALA:HB3	2.03	0.58
2:M3:356:ALA:O	2:M3:360:UNK:N	2.35	0.58
7:U3:22:UNK:O	7:U3:23:UNK:CB	2.52	0.58
1:L5:316:SER:O	1:L5:319:LEU:CB	2.51	0.58
2:M5:42:MET:O	2:M5:44:GLN:N	2.36	0.58
2:M5:324:SER:O	2:M5:328:CYS:CB	2.50	0.58
1:L6:211:MET:O	1:L6:214:PRO:CB	2.51	0.58
1:L2:475:LYS:O	1:L2:479:ILE:CB	2.51	0.58
2:M2:42:MET:O	2:M2:44:GLN:N	2.36	0.58
10:t2:2:UNK:O	10:t2:3:UNK:C	2.52	0.58
1:L3:369:ILE:O	1:L3:373:GLY:N	2.26	0.58
1:L3:475:LYS:O	1:L3:479:ILE:CB	2.51	0.58
5:j3:14:UNK:O	5:j3:17:UNK:CB	2.51	0.58
1:L4:128:TYR:O	1:L4:131:LEU:N	2.36	0.58
2:M4:42:MET:O	2:M4:44:GLN:N	2.36	0.58
10:t4:20:UNK:O	10:t4:21:UNK:CB	2.50	0.58
2:M5:271:MET:O	2:M5:272:THR:C	2.45	0.58
8:n5:5:UNK:O	8:n5:6:UNK:C	2.48	0.58
5:k6:23:UNK:O	5:k6:26:UNK:CB	2.51	0.58
2:M1:340:ARG:O	2:M1:342:MET:N	2.37	0.58
2:M1:378:GLU:C	2:M1:380:PHE:H	2.11	0.58
5:k1:23:UNK:O	5:k1:26:UNK:CB	2.51	0.58
10:t1:9:UNK:O	10:t1:12:UNK:N	2.36	0.58
8:n2:50:UNK:O	8:n2:51:UNK:C	2.52	0.58
1:L4:211:MET:O	1:L4:214:PRO:CB	2.51	0.58
1:L5:128:TYR:O	1:L5:131:LEU:N	2.36	0.58
1:L6:210:PHE:O	1:L6:211:MET:C	2.45	0.58
1:L6:376:PHE:O	1:L6:377:LYS:C	2.46	0.58
2:M1:42:MET:O	2:M1:44:GLN:N	2.36	0.58
2:M1:375:LEU:O	2:M1:379:LEU:N	2.30	0.58
3:i1:24:UNK:O	3:i1:27:UNK:CB	2.52	0.58
10:t1:20:UNK:O	10:t1:21:UNK:CB	2.50	0.58
1:L3:48:ILE:O	1:L3:51:ALA:HB3	2.03	0.58
8:n3:9:UNK:O	8:n3:12:UNK:CB	2.52	0.58
2:M4:60:SER:C	2:M4:62:SER:C	2.72	0.58
3:i5:24:UNK:O	3:i5:27:UNK:CB	2.52	0.58
5:k5:23:UNK:O	5:k5:26:UNK:CB	2.51	0.58
1:L6:316:SER:C	1:L6:319:LEU:H	2.12	0.58
2:M6:108:MET:CA	2:M6:111:THR:CB	2.81	0.58
1:L1:376:PHE:O	1:L1:377:LYS:C	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M3:108:MET:CA	2:M3:111:THR:CB	2.81	0.58
7:U3:9:UNK:O	7:U3:12:UNK:CB	2.51	0.58
1:L4:210:PHE:O	1:L4:211:MET:C	2.45	0.58
2:M4:75:LEU:O	2:M4:78:MET:N	2.37	0.58
3:i4:24:UNK:O	3:i4:27:UNK:CB	2.52	0.58
8:n4:5:UNK:O	8:n4:6:UNK:C	2.48	0.58
10:t4:9:UNK:O	10:t4:12:UNK:N	2.36	0.58
14:BD:586:UNK:O	14:BD:587:UNK:C	2.51	0.58
8:n5:50:UNK:O	8:n5:51:UNK:C	2.52	0.58
10:t6:9:UNK:O	10:t6:12:UNK:N	2.36	0.58
1:L2:420:ASN:O	1:L2:424:THR:N	2.31	0.58
3:i3:24:UNK:O	3:i3:27:UNK:CB	2.52	0.58
8:n4:50:UNK:O	8:n4:51:UNK:C	2.52	0.58
1:L5:48:ILE:O	1:L5:51:ALA:HB3	2.03	0.58
8:n6:9:UNK:O	8:n6:12:UNK:CB	2.52	0.58
1:L2:382:THR:CB	1:L2:389:GLY:HA2	2.34	0.58
1:L2:419:ALA:O	1:L2:422:SER:N	2.37	0.58
14:BB:1614:UNK:C	14:BB:1617:UNK:CB	2.82	0.58
7:U3:23:UNK:CB	7:U3:24:UNK:CA	2.81	0.58
14:BC:1614:UNK:C	14:BC:1617:UNK:CB	2.82	0.58
14:BD:1614:UNK:C	14:BD:1617:UNK:N	2.65	0.58
1:L5:382:THR:CB	1:L5:389:GLY:HA2	2.34	0.58
2:M5:356:ALA:O	2:M5:360:UNK:N	2.35	0.58
1:L1:38:SER:O	1:L1:41:PRO:N	2.37	0.58
1:L2:38:SER:O	1:L2:41:PRO:N	2.37	0.58
1:L2:128:TYR:O	1:L2:131:LEU:N	2.36	0.58
2:M3:375:LEU:O	2:M3:379:LEU:N	2.30	0.58
1:L4:48:ILE:O	1:L4:51:ALA:HB3	2.03	0.58
2:M4:123:GLU:O	2:M4:126:LEU:N	2.31	0.58
2:M4:378:GLU:C	2:M4:380:PHE:H	2.11	0.58
14:BD:1614:UNK:C	14:BD:1617:UNK:CB	2.82	0.58
1:L5:38:SER:O	1:L5:41:PRO:N	2.37	0.58
2:M5:75:LEU:O	2:M5:78:MET:N	2.37	0.58
7:U5:9:UNK:O	7:U5:12:UNK:CB	2.51	0.58
14:BF:586:UNK:O	14:BF:587:UNK:C	2.51	0.58
1:L1:368:ASP:O	1:L1:372:MET:N	2.37	0.58
1:L1:419:ALA:O	1:L1:422:SER:N	2.37	0.58
2:M2:271:MET:O	2:M2:272:THR:C	2.45	0.58
2:M2:378:GLU:C	2:M2:380:PHE:H	2.11	0.58
8:n2:9:UNK:O	8:n2:12:UNK:CB	2.52	0.58
2:M3:60:SER:C	2:M3:62:SER:C	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M3:378:GLU:C	2:M3:380:PHE:H	2.11	0.58
1:L4:368:ASP:O	1:L4:372:MET:N	2.37	0.58
2:M4:340:ARG:O	2:M4:342:MET:N	2.37	0.58
1:L5:316:SER:C	1:L5:319:LEU:H	2.12	0.58
2:M5:378:GLU:C	2:M5:380:PHE:H	2.11	0.58
3:i6:24:UNK:O	3:i6:27:UNK:CB	2.52	0.58
14:BF:1614:UNK:C	14:BF:1617:UNK:CB	2.82	0.58
14:BB:586:UNK:O	14:BB:587:UNK:C	2.51	0.57
2:M1:75:LEU:O	2:M1:78:MET:N	2.37	0.57
1:L2:116:MET:O	1:L2:117:HIS:C	2.45	0.57
1:L2:368:ASP:O	1:L2:372:MET:N	2.37	0.57
2:M2:340:ARG:O	2:M2:342:MET:N	2.37	0.57
3:i2:24:UNK:O	3:i2:27:UNK:CB	2.52	0.57
1:L3:419:ALA:O	1:L3:422:SER:N	2.37	0.57
2:M3:75:LEU:O	2:M3:78:MET:N	2.37	0.57
1:L4:316:SER:C	1:L4:319:LEU:H	2.12	0.57
1:L4:419:ALA:O	1:L4:422:SER:N	2.37	0.57
2:M5:60:SER:C	2:M5:62:SER:C	2.72	0.57
5:k1:17:UNK:O	5:k1:21:UNK:N	2.38	0.57
14:BA:1614:UNK:C	14:BA:1617:UNK:CB	2.82	0.57
1:L2:376:PHE:O	1:L2:377:LYS:C	2.46	0.57
10:t4:2:UNK:O	10:t4:3:UNK:C	2.52	0.57
2:M5:340:ARG:O	2:M5:342:MET:N	2.37	0.57
14:BE:1614:UNK:C	14:BE:1617:UNK:CB	2.82	0.57
1:L6:382:THR:CB	1:L6:389:GLY:HA2	2.34	0.57
1:L1:382:THR:CB	1:L1:389:GLY:HA2	2.34	0.57
2:M1:60:SER:C	2:M1:62:SER:C	2.72	0.57
2:M4:31:SER:O	2:M4:32:LEU:O	2.23	0.57
7:U6:22:UNK:O	7:U6:23:UNK:CB	2.52	0.57
1:L1:316:SER:C	1:L1:319:LEU:H	2.12	0.57
8:n1:50:UNK:O	8:n1:51:UNK:C	2.52	0.57
7:U2:22:UNK:O	7:U2:23:UNK:CB	2.52	0.57
10:t2:9:UNK:O	10:t2:12:UNK:N	2.36	0.57
14:BD:546:UNK:O	14:BE:1588:UNK:N	2.38	0.57
7:U5:23:UNK:CB	7:U5:24:UNK:CA	2.81	0.57
8:n1:9:UNK:O	8:n1:12:UNK:CB	2.52	0.57
2:M2:60:SER:C	2:M2:62:SER:C	2.72	0.57
2:M2:75:LEU:O	2:M2:78:MET:N	2.37	0.57
1:L4:435:ALA:HB3	14:BD:1644:UNK:CA	2.21	0.57
5:k4:17:UNK:O	5:k4:21:UNK:N	2.38	0.57
1:L5:137:LEU:O	1:L5:140:VAL:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:t6:2:UNK:O	10:t6:3:UNK:C	2.52	0.57
2:M1:31:SER:O	2:M1:32:LEU:O	2.23	0.57
7:U1:22:UNK:O	7:U1:23:UNK:CB	2.52	0.57
7:U1:23:UNK:CB	7:U1:24:UNK:CA	2.81	0.57
1:L2:137:LEU:O	1:L2:140:VAL:N	2.38	0.57
1:L3:316:SER:C	1:L3:319:LEU:H	2.12	0.57
8:n3:50:UNK:O	8:n3:51:UNK:C	2.52	0.57
1:L5:116:MET:O	1:L5:117:HIS:C	2.45	0.57
1:L5:210:PHE:O	1:L5:211:MET:C	2.45	0.57
5:k5:17:UNK:O	5:k5:21:UNK:N	2.38	0.57
2:M6:410:MET:O	2:M6:414:THR:N	2.38	0.57
2:M1:123:GLU:O	2:M1:126:LEU:N	2.31	0.57
3:h1:6:UNK:O	3:h1:10:UNK:N	2.38	0.57
1:L3:137:LEU:O	1:L3:140:VAL:N	2.38	0.57
1:L3:382:THR:CB	1:L3:389:GLY:HA2	2.34	0.57
1:L5:376:PHE:O	1:L5:377:LYS:C	2.46	0.57
1:L5:419:ALA:O	1:L5:422:SER:N	2.37	0.57
8:n5:9:UNK:O	8:n5:12:UNK:CB	2.52	0.57
2:M1:26:ASN:O	2:M1:27:SER:C	2.47	0.57
1:L2:316:SER:C	1:L2:319:LEU:H	2.12	0.57
2:M2:31:SER:O	2:M2:32:LEU:O	2.23	0.57
1:L3:38:SER:O	1:L3:41:PRO:N	2.37	0.57
8:n4:9:UNK:O	8:n4:12:UNK:CB	2.52	0.57
2:M5:91:ARG:O	2:M5:94:LEU:N	2.38	0.57
10:t5:2:UNK:O	10:t5:3:UNK:C	2.52	0.57
1:L6:38:SER:O	1:L6:41:PRO:N	2.37	0.57
2:M6:60:SER:C	2:M6:62:SER:C	2.72	0.57
2:M6:340:ARG:O	2:M6:342:MET:N	2.37	0.57
2:M6:378:GLU:C	2:M6:380:PHE:H	2.11	0.57
3:h6:6:UNK:O	3:h6:10:UNK:N	2.38	0.57
1:L1:65:SER:CB	1:L1:66:GLY:CA	2.83	0.57
1:L1:420:ASN:O	1:L1:424:THR:N	2.31	0.57
2:M2:91:ARG:O	2:M2:94:LEU:N	2.38	0.57
5:k2:17:UNK:O	5:k2:21:UNK:N	2.38	0.57
8:n2:45:UNK:O	8:n2:49:UNK:N	2.38	0.57
1:L3:376:PHE:O	1:L3:377:LYS:C	2.46	0.57
8:n3:45:UNK:O	8:n3:49:UNK:N	2.38	0.57
1:L4:116:MET:O	1:L4:117:HIS:C	2.45	0.57
1:L4:137:LEU:O	1:L4:140:VAL:N	2.38	0.57
8:n6:45:UNK:O	8:n6:49:UNK:N	2.38	0.57
4:g1:16:UNK:C	4:g1:18:UNK:N	2.67	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:t1:2:UNK:O	10:t1:3:UNK:C	2.52	0.56
1:L3:116:MET:O	1:L3:117:HIS:C	2.45	0.56
10:t3:2:UNK:O	10:t3:3:UNK:C	2.52	0.56
2:M4:26:ASN:O	2:M4:27:SER:C	2.47	0.56
3:h4:6:UNK:O	3:h4:10:UNK:N	2.38	0.56
1:L5:65:SER:CB	1:L5:66:GLY:CA	2.83	0.56
3:h5:6:UNK:O	3:h5:10:UNK:N	2.38	0.56
1:L1:137:LEU:O	1:L1:140:VAL:N	2.38	0.56
8:n1:45:UNK:O	8:n1:49:UNK:N	2.38	0.56
1:L3:261:MET:O	1:L3:264:ALA:HB2	2.06	0.56
2:M3:91:ARG:O	2:M3:94:LEU:N	2.38	0.56
1:L4:38:SER:O	1:L4:41:PRO:N	2.37	0.56
2:M4:121:LEU:O	2:M4:124:ALA:CB	2.53	0.56
1:L6:419:ALA:O	1:L6:422:SER:N	2.37	0.56
1:L1:156:GLY:O	1:L1:157:ILE:CB	2.54	0.56
7:U1:10:UNK:O	7:U1:13:UNK:CB	2.54	0.56
1:L2:156:GLY:O	1:L2:157:ILE:CB	2.54	0.56
2:M2:410:MET:O	2:M2:414:THR:N	2.38	0.56
7:U2:10:UNK:O	7:U2:13:UNK:CB	2.54	0.56
1:L3:156:GLY:O	1:L3:157:ILE:CB	2.54	0.56
1:L3:210:PHE:O	1:L3:211:MET:C	2.45	0.56
1:L3:351:CYS:O	1:L3:352:SER:CB	2.53	0.56
3:h3:6:UNK:O	3:h3:10:UNK:N	2.38	0.56
1:L4:65:SER:CB	1:L4:66:GLY:CA	2.83	0.56
1:L4:382:THR:CB	1:L4:389:GLY:HA2	2.34	0.56
1:L4:510:ALA:O	1:L4:513:VAL:CB	2.54	0.56
8:n4:45:UNK:O	8:n4:49:UNK:N	2.38	0.56
2:M5:31:SER:O	2:M5:32:LEU:O	2.23	0.56
1:L6:65:SER:CB	1:L6:66:GLY:CA	2.83	0.56
1:L6:510:ALA:O	1:L6:513:VAL:CB	2.54	0.56
2:M6:75:LEU:O	2:M6:78:MET:N	2.37	0.56
8:n6:50:UNK:O	8:n6:51:UNK:C	2.52	0.56
1:L2:65:SER:CB	1:L2:66:GLY:CA	2.83	0.56
1:L2:210:PHE:O	1:L2:211:MET:C	2.45	0.56
2:M3:80:SER:O	2:M3:81:GLN:C	2.49	0.56
5:k3:17:UNK:O	5:k3:21:UNK:N	2.38	0.56
14:BC:586:UNK:O	14:BC:587:UNK:C	2.51	0.56
7:U5:10:UNK:O	7:U5:13:UNK:CB	2.54	0.56
8:n5:45:UNK:O	8:n5:49:UNK:N	2.38	0.56
1:L6:261:MET:O	1:L6:264:ALA:HB2	2.06	0.56
1:L1:366:GLU:O	1:L1:369:ILE:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M3:340:ARG:O	2:M3:342:MET:N	2.37	0.56
7:U3:49:UNK:O	7:U3:53:UNK:N	2.39	0.56
1:L4:463:ILE:O	1:L4:467:ASN:N	2.35	0.56
2:M4:91:ARG:O	2:M4:94:LEU:N	2.38	0.56
1:L6:156:GLY:O	1:L6:157:ILE:CB	2.54	0.56
2:M6:91:ARG:O	2:M6:94:LEU:N	2.38	0.56
1:L2:463:ILE:O	1:L2:467:ASN:N	2.35	0.56
7:U2:49:UNK:O	7:U2:53:UNK:N	2.39	0.56
2:M3:367:LEU:O	2:M3:368:ALA:HB3	2.06	0.56
2:M4:410:MET:O	2:M4:414:THR:N	2.38	0.56
1:L5:261:MET:O	1:L5:264:ALA:HB2	2.06	0.56
2:M6:31:SER:O	2:M6:32:LEU:O	2.23	0.56
2:M6:367:LEU:O	2:M6:368:ALA:HB3	2.06	0.56
2:M1:91:ARG:O	2:M1:94:LEU:N	2.38	0.56
1:L3:368:ASP:O	1:L3:372:MET:N	2.37	0.56
7:U4:23:UNK:CB	7:U4:24:UNK:CA	2.81	0.56
2:M6:113:MET:HA	2:M6:114:GLU:C	2.31	0.56
2:M6:176:PHE:CB	2:M6:179:LEU:N	2.69	0.56
4:g1:11:UNK:C	4:g1:13:UNK:N	2.69	0.56
1:L2:261:MET:O	1:L2:264:ALA:HB2	2.06	0.56
1:L2:351:CYS:O	1:L2:352:SER:CB	2.53	0.56
1:L2:366:GLU:O	1:L2:369:ILE:N	2.39	0.56
2:M3:31:SER:O	2:M3:32:LEU:O	2.23	0.56
2:M4:367:LEU:O	2:M4:368:ALA:HB3	2.06	0.56
7:U4:49:UNK:O	7:U4:53:UNK:N	2.39	0.56
2:M5:176:PHE:CB	2:M5:179:LEU:N	2.69	0.56
2:M5:367:LEU:O	2:M5:368:ALA:HB3	2.05	0.56
4:g5:11:UNK:C	4:g5:13:UNK:N	2.69	0.56
14:BE:586:UNK:O	14:BE:587:UNK:C	2.51	0.56
5:k6:17:UNK:O	5:k6:21:UNK:N	2.38	0.56
1:L1:35:TYR:O	1:L1:39:ASN:N	2.25	0.56
1:L1:261:MET:O	1:L1:264:ALA:HB2	2.06	0.56
1:L1:463:ILE:O	1:L1:467:ASN:N	2.35	0.56
2:M1:410:MET:O	2:M1:414:THR:N	2.38	0.56
3:h2:6:UNK:O	3:h2:10:UNK:N	2.38	0.56
5:j2:10:UNK:O	5:j2:13:UNK:N	2.39	0.56
5:j3:10:UNK:O	5:j3:13:UNK:N	2.39	0.56
1:L4:261:MET:O	1:L4:264:ALA:HB2	2.06	0.56
2:M4:176:PHE:CB	2:M4:179:LEU:N	2.69	0.56
7:U4:10:UNK:O	7:U4:13:UNK:CB	2.54	0.56
7:U5:49:UNK:O	7:U5:53:UNK:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L6:351:CYS:O	1:L6:352:SER:CB	2.53	0.56
1:L1:181:LEU:O	1:L1:183:ASN:N	2.39	0.56
1:L3:510:ALA:O	1:L3:513:VAL:CB	2.54	0.56
2:M3:26:ASN:O	2:M3:27:SER:C	2.47	0.56
2:M4:113:MET:HA	2:M4:114:GLU:C	2.31	0.56
2:M4:348:LEU:CB	2:M4:356:ALA:HB2	2.36	0.56
8:n4:10:UNK:C	8:n4:12:UNK:N	2.67	0.56
1:L5:510:ALA:O	1:L5:513:VAL:CB	2.54	0.56
2:M6:348:LEU:CB	2:M6:356:ALA:HB2	2.36	0.56
7:U6:10:UNK:O	7:U6:13:UNK:CB	2.54	0.56
7:U1:49:UNK:O	7:U1:53:UNK:N	2.39	0.55
1:L2:77:LEU:CA	1:L2:78:THR:CB	2.84	0.55
1:L2:181:LEU:O	1:L2:183:ASN:N	2.39	0.55
1:L2:510:ALA:O	1:L2:513:VAL:CB	2.54	0.55
2:M3:176:PHE:CB	2:M3:179:LEU:N	2.69	0.55
1:L4:366:GLU:O	1:L4:369:ILE:N	2.39	0.55
1:L5:156:GLY:O	1:L5:157:ILE:CB	2.54	0.55
2:M5:80:SER:O	2:M5:81:GLN:C	2.49	0.55
1:L6:181:LEU:O	1:L6:183:ASN:N	2.39	0.55
5:j6:10:UNK:O	5:j6:13:UNK:N	2.39	0.55
1:L1:351:CYS:O	1:L1:352:SER:CB	2.53	0.55
1:L2:435:ALA:HB3	14:BB:1644:UNK:CA	2.21	0.55
1:L2:447:ILE:O	1:L2:450:ALA:HB3	2.06	0.55
2:M2:375:LEU:O	2:M2:379:LEU:N	2.30	0.55
1:L3:65:SER:CB	1:L3:66:GLY:CA	2.83	0.55
1:L3:447:ILE:O	1:L3:450:ALA:HB3	2.06	0.55
2:M3:348:LEU:CB	2:M3:356:ALA:HB2	2.36	0.55
1:L5:366:GLU:O	1:L5:369:ILE:N	2.39	0.55
1:L6:137:LEU:O	1:L6:140:VAL:N	2.38	0.55
2:M6:227:GLY:CA	2:M6:228:SER:CB	2.85	0.55
1:L1:116:MET:O	1:L1:117:HIS:C	2.45	0.55
1:L1:242:LEU:O	1:L1:245:ALA:N	2.39	0.55
1:L1:447:ILE:O	1:L1:450:ALA:HB3	2.06	0.55
2:M1:94:LEU:O	2:M1:97:THR:N	2.40	0.55
2:M1:209:LEU:O	2:M1:211:GLY:O	2.25	0.55
2:M1:348:LEU:CB	2:M1:356:ALA:HB2	2.36	0.55
1:L3:242:LEU:O	1:L3:245:ALA:N	2.39	0.55
2:M3:113:MET:HA	2:M3:114:GLU:C	2.31	0.55
5:j4:10:UNK:O	5:j4:13:UNK:N	2.39	0.55
14:BD:547:UNK:CB	14:BE:1590:UNK:CA	2.79	0.55
2:M5:348:LEU:CB	2:M5:356:ALA:HB2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:U5:22:UNK:O	7:U5:23:UNK:CB	2.52	0.55
1:L6:65:SER:CB	1:L6:66:GLY:HA2	2.37	0.55
1:L6:366:GLU:O	1:L6:369:ILE:N	2.39	0.55
1:L6:502:MET:O	1:L6:506:LEU:N	2.35	0.55
2:M6:26:ASN:O	2:M6:27:SER:C	2.47	0.55
10:t1:34:UNK:C	10:t1:36:UNK:N	2.68	0.55
2:M2:26:ASN:O	2:M2:27:SER:C	2.47	0.55
2:M2:188:ASN:CB	2:M2:189:SER:CB	2.85	0.55
1:L3:181:LEU:O	1:L3:183:ASN:N	2.39	0.55
2:M3:410:MET:O	2:M3:414:THR:N	2.38	0.55
2:M4:227:GLY:CA	2:M4:228:SER:CB	2.85	0.55
2:M5:121:LEU:O	2:M5:124:ALA:CB	2.53	0.55
1:L6:368:ASP:O	1:L6:372:MET:N	2.37	0.55
2:M6:94:LEU:O	2:M6:97:THR:N	2.40	0.55
1:L1:510:ALA:O	1:L1:513:VAL:CB	2.54	0.55
2:M1:188:ASN:CB	2:M1:189:SER:CB	2.85	0.55
1:L2:65:SER:CB	1:L2:66:GLY:HA2	2.37	0.55
1:L3:366:GLU:O	1:L3:369:ILE:N	2.39	0.55
2:M3:209:LEU:O	2:M3:211:GLY:O	2.25	0.55
7:U3:30:UNK:CB	7:U3:34:UNK:CB	2.85	0.55
1:L4:156:GLY:O	1:L4:157:ILE:CB	2.54	0.55
2:M4:188:ASN:CB	2:M4:189:SER:CB	2.85	0.55
2:M4:209:LEU:O	2:M4:211:GLY:O	2.25	0.55
3:i4:22:UNK:O	3:i4:23:UNK:C	2.54	0.55
1:L5:188:ILE:CB	1:L5:211:MET:CB	2.84	0.55
1:L5:242:LEU:O	1:L5:245:ALA:N	2.39	0.55
2:M5:209:LEU:O	2:M5:211:GLY:O	2.25	0.55
1:L6:242:LEU:O	1:L6:245:ALA:N	2.39	0.55
2:M1:114:GLU:H	2:M1:177:LEU:CB	2.20	0.55
5:j1:10:UNK:O	5:j1:13:UNK:N	2.39	0.55
7:U1:30:UNK:CB	7:U1:34:UNK:CB	2.85	0.55
1:L2:61:MET:CB	1:L2:80:GLN:CB	2.85	0.55
1:L2:242:LEU:O	1:L2:245:ALA:N	2.39	0.55
2:M3:227:GLY:CA	2:M3:228:SER:CB	2.85	0.55
7:U4:30:UNK:CB	7:U4:34:UNK:CB	2.85	0.55
2:M5:26:ASN:O	2:M5:27:SER:C	2.47	0.55
2:M5:94:LEU:O	2:M5:97:THR:N	2.40	0.55
2:M5:410:MET:O	2:M5:414:THR:N	2.38	0.55
7:U6:30:UNK:CB	7:U6:34:UNK:CB	2.85	0.55
7:U6:49:UNK:O	7:U6:53:UNK:N	2.39	0.55
1:L1:310:ILE:O	1:L1:313:PHE:CB	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M1:367:LEU:O	2:M1:368:ALA:HB3	2.05	0.55
2:M2:227:GLY:CA	2:M2:228:SER:CB	2.85	0.55
1:L3:188:ILE:CB	1:L3:211:MET:CB	2.85	0.55
1:L3:310:ILE:O	1:L3:313:PHE:CB	2.55	0.55
2:M3:241:TYR:O	2:M3:243:MET:N	2.40	0.55
1:L4:351:CYS:O	1:L4:352:SER:CB	2.53	0.55
2:M4:94:LEU:O	2:M4:97:THR:N	2.40	0.55
1:L5:111:PHE:CB	1:L5:114:TRP:CB	2.85	0.55
1:L5:181:LEU:O	1:L5:183:ASN:N	2.39	0.55
2:M5:188:ASN:CB	2:M5:189:SER:CB	2.85	0.55
3:i5:22:UNK:O	3:i5:23:UNK:C	2.54	0.55
5:j5:10:UNK:O	5:j5:13:UNK:N	2.39	0.55
1:L6:188:ILE:CB	1:L6:211:MET:CB	2.85	0.55
2:M6:209:LEU:O	2:M6:211:GLY:O	2.25	0.55
2:M1:80:SER:O	2:M1:81:GLN:C	2.49	0.55
1:L2:28:MET:CB	1:L2:31:SER:CB	2.85	0.55
2:M2:133:ILE:CA	2:M2:224:PRO:CB	2.85	0.55
2:M3:279:GLN:CB	2:M3:280:THR:CA	2.85	0.55
7:U3:10:UNK:O	7:U3:13:UNK:CB	2.54	0.55
1:L4:188:ILE:CB	1:L4:211:MET:CB	2.85	0.55
1:L5:351:CYS:O	1:L5:352:SER:CB	2.53	0.55
1:L6:197:PHE:CB	1:L6:200:ASN:CB	2.85	0.55
1:L6:447:ILE:O	1:L6:450:ALA:HB3	2.06	0.55
2:M2:114:GLU:H	2:M2:177:LEU:CB	2.20	0.55
2:M2:176:PHE:CB	2:M2:179:LEU:N	2.69	0.55
2:M2:372:THR:CB	2:M2:375:LEU:CB	2.85	0.55
1:L3:77:LEU:CA	1:L3:78:THR:CB	2.84	0.55
1:L3:197:PHE:CB	1:L3:200:ASN:CB	2.85	0.55
1:L4:242:LEU:O	1:L4:245:ALA:N	2.39	0.55
14:BD:1637:UNK:HA	14:BD:1639:UNK:O	2.07	0.55
1:L5:310:ILE:O	1:L5:313:PHE:CB	2.55	0.55
1:L5:447:ILE:O	1:L5:450:ALA:HB3	2.06	0.55
2:M5:227:GLY:CA	2:M5:228:SER:CB	2.85	0.55
1:L6:310:ILE:O	1:L6:313:PHE:CB	2.55	0.55
1:L1:188:ILE:CB	1:L1:211:MET:CB	2.85	0.55
7:U1:43:UNK:CB	7:U1:46:UNK:CB	2.85	0.55
2:M2:80:SER:O	2:M2:81:GLN:C	2.49	0.55
2:M2:367:LEU:O	2:M2:368:ALA:HB3	2.06	0.55
4:g2:16:UNK:C	4:g2:18:UNK:N	2.67	0.55
1:L4:197:PHE:CB	1:L4:200:ASN:CB	2.85	0.55
2:M4:176:PHE:O	5:s4:18:UNK:CB	2.56	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M5:113:MET:HA	2:M5:114:GLU:C	2.31	0.55
2:M6:114:GLU:H	2:M6:177:LEU:CB	2.20	0.55
8:n1:10:UNK:C	8:n1:12:UNK:N	2.67	0.54
1:L2:197:PHE:CB	1:L2:200:ASN:CB	2.85	0.54
2:M2:176:PHE:O	5:s2:18:UNK:CB	2.56	0.54
2:M2:241:TYR:O	2:M2:243:MET:N	2.40	0.54
7:U2:30:UNK:CB	7:U2:34:UNK:CB	2.85	0.54
2:M3:114:GLU:H	2:M3:177:LEU:CB	2.20	0.54
2:M3:188:ASN:CB	2:M3:189:SER:CB	2.85	0.54
4:g3:11:UNK:C	4:g3:13:UNK:N	2.69	0.54
1:L4:55:SER:CB	1:L4:56:MET:CB	2.86	0.54
2:M4:114:GLU:H	2:M4:177:LEU:CB	2.20	0.54
2:M4:372:THR:CB	2:M4:375:LEU:CB	2.85	0.54
7:U4:43:UNK:CB	7:U4:46:UNK:CB	2.85	0.54
2:M5:372:THR:CB	2:M5:375:LEU:CB	2.85	0.54
14:BE:1637:UNK:HA	14:BE:1639:UNK:O	2.08	0.54
2:M6:80:SER:O	2:M6:81:GLN:C	2.49	0.54
4:g6:16:UNK:C	4:g6:18:UNK:N	2.67	0.54
7:U6:43:UNK:CB	7:U6:46:UNK:CB	2.85	0.54
14:BF:1637:UNK:HA	14:BF:1639:UNK:O	2.07	0.54
1:L1:55:SER:CB	1:L1:56:MET:CB	2.86	0.54
2:M1:113:MET:HA	2:M1:114:GLU:C	2.31	0.54
2:M1:227:GLY:CA	2:M1:228:SER:CB	2.85	0.54
1:L2:188:ILE:CB	1:L2:211:MET:CB	2.84	0.54
1:L2:210:PHE:O	1:L2:213:ASN:N	2.41	0.54
2:M2:113:MET:HA	2:M2:114:GLU:C	2.31	0.54
7:U3:43:UNK:CB	7:U3:46:UNK:CB	2.85	0.54
1:L4:447:ILE:O	1:L4:450:ALA:HB3	2.07	0.54
7:U4:22:UNK:O	7:U4:23:UNK:CB	2.52	0.54
1:L5:55:SER:CB	1:L5:56:MET:CB	2.85	0.54
1:L5:210:PHE:O	1:L5:213:ASN:N	2.41	0.54
2:M6:241:TYR:O	2:M6:243:MET:N	2.40	0.54
3:i6:22:UNK:O	3:i6:23:UNK:C	2.54	0.54
1:L1:61:MET:CB	1:L1:80:GLN:CB	2.85	0.54
3:i1:1:UNK:O	3:i1:2:UNK:C	2.56	0.54
14:BA:586:UNK:O	14:BA:587:UNK:C	2.51	0.54
14:BA:1637:UNK:HA	14:BA:1639:UNK:O	2.08	0.54
2:M2:348:LEU:CB	2:M2:356:ALA:HB2	2.36	0.54
1:L3:28:MET:CB	1:L3:31:SER:CB	2.85	0.54
1:L3:61:MET:CB	1:L3:80:GLN:CB	2.85	0.54
1:L3:502:MET:O	1:L3:506:LEU:N	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M3:176:PHE:O	5:s3:18:UNK:CB	2.55	0.54
3:i3:22:UNK:O	3:i3:23:UNK:C	2.54	0.54
1:L4:28:MET:CB	1:L4:31:SER:CB	2.85	0.54
1:L4:65:SER:CB	1:L4:66:GLY:HA2	2.37	0.54
3:i5:1:UNK:O	3:i5:2:UNK:C	2.56	0.54
1:L1:65:SER:CB	1:L1:66:GLY:HA2	2.37	0.54
1:L2:55:SER:CB	1:L2:56:MET:CB	2.85	0.54
2:M2:94:LEU:O	2:M2:97:THR:N	2.40	0.54
7:U2:43:UNK:CB	7:U2:46:UNK:CB	2.85	0.54
1:L3:111:PHE:CB	1:L3:114:TRP:CB	2.85	0.54
1:L4:61:MET:CB	1:L4:80:GLN:CB	2.85	0.54
1:L4:111:PHE:CB	1:L4:114:TRP:CB	2.85	0.54
1:L4:181:LEU:O	1:L4:183:ASN:N	2.39	0.54
1:L4:310:ILE:O	1:L4:313:PHE:CB	2.55	0.54
2:M4:80:SER:O	2:M4:81:GLN:C	2.49	0.54
2:M4:241:TYR:O	2:M4:243:MET:N	2.40	0.54
1:L5:463:ILE:O	1:L5:467:ASN:N	2.35	0.54
2:M6:133:ILE:CA	2:M6:224:PRO:CB	2.85	0.54
1:L1:197:PHE:CB	1:L1:200:ASN:CB	2.85	0.54
1:L1:210:PHE:O	1:L1:213:ASN:N	2.41	0.54
2:M1:372:THR:CB	2:M1:375:LEU:CB	2.85	0.54
1:L5:368:ASP:O	1:L5:372:MET:N	2.37	0.54
8:n5:44:UNK:O	8:n5:45:UNK:C	2.55	0.54
2:M6:188:ASN:CB	2:M6:189:SER:CB	2.85	0.54
2:M6:279:GLN:CB	2:M6:280:THR:CA	2.85	0.54
1:L1:111:PHE:CB	1:L1:114:TRP:CB	2.85	0.54
3:i2:22:UNK:O	3:i2:23:UNK:C	2.54	0.54
14:BB:1637:UNK:HA	14:BB:1639:UNK:O	2.07	0.54
1:L3:210:PHE:O	1:L3:213:ASN:N	2.41	0.54
14:BC:1637:UNK:HA	14:BC:1639:UNK:O	2.07	0.54
2:M4:375:LEU:O	2:M4:379:LEU:N	2.30	0.54
1:L5:65:SER:CB	1:L5:66:GLY:HA2	2.37	0.54
8:n5:10:UNK:C	8:n5:12:UNK:N	2.67	0.54
1:L6:111:PHE:CB	1:L6:114:TRP:CB	2.85	0.54
2:M6:121:LEU:O	2:M6:124:ALA:CB	2.53	0.54
2:M1:121:LEU:O	2:M1:124:ALA:CB	2.53	0.54
2:M1:133:ILE:CA	2:M1:224:PRO:CB	2.85	0.54
1:L2:111:PHE:CB	1:L2:114:TRP:CB	2.85	0.54
2:M4:279:GLN:CB	2:M4:280:THR:CA	2.85	0.54
1:L5:61:MET:CB	1:L5:80:GLN:CB	2.85	0.54
1:L5:502:MET:O	1:L5:506:LEU:N	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M5:94:LEU:O	2:M5:95:PHE:C	2.48	0.54
2:M5:114:GLU:H	2:M5:177:LEU:CB	2.20	0.54
2:M5:241:TYR:O	2:M5:243:MET:N	2.40	0.54
1:L6:55:SER:CB	1:L6:56:MET:CB	2.86	0.54
2:M6:68:LEU:C	2:M6:70:MET:N	2.66	0.54
1:L2:127:LYS:O	1:L2:131:LEU:N	2.41	0.54
4:g2:11:UNK:C	4:g2:13:UNK:N	2.69	0.54
1:L3:69:LEU:CB	1:L3:74:TRP:HA	2.38	0.54
2:M3:372:THR:CB	2:M3:375:LEU:CB	2.85	0.54
4:g3:16:UNK:C	4:g3:18:UNK:N	2.67	0.54
1:L5:28:MET:CB	1:L5:31:SER:CB	2.85	0.54
7:U5:30:UNK:CB	7:U5:34:UNK:CB	2.85	0.54
5:s5:14:UNK:O	5:s5:18:UNK:N	2.41	0.54
14:BE:1600:UNK:O	14:BE:1604:UNK:CB	2.56	0.54
1:L1:28:MET:CB	1:L1:31:SER:CB	2.85	0.54
1:L1:69:LEU:CB	1:L1:74:TRP:HA	2.38	0.54
2:M1:176:PHE:O	5:s1:18:UNK:CB	2.55	0.54
2:M2:391:ILE:O	2:M2:392:THR:CB	2.56	0.54
1:L3:55:SER:CB	1:L3:56:MET:CB	2.86	0.54
2:M3:68:LEU:C	2:M3:70:MET:N	2.66	0.54
1:L4:77:LEU:CA	1:L4:78:THR:CB	2.84	0.54
2:M5:133:ILE:CA	2:M5:224:PRO:CB	2.85	0.54
1:L6:61:MET:CB	1:L6:80:GLN:CB	2.85	0.54
1:L3:65:SER:CB	1:L3:66:GLY:HA2	2.37	0.54
3:i4:1:UNK:O	3:i4:2:UNK:C	2.56	0.54
5:s4:14:UNK:O	5:s4:18:UNK:N	2.41	0.54
1:L5:197:PHE:CB	1:L5:200:ASN:CB	2.85	0.54
10:t6:34:UNK:C	10:t6:36:UNK:N	2.68	0.54
1:L1:77:LEU:CA	1:L1:78:THR:CB	2.84	0.53
2:M2:209:LEU:O	2:M2:211:GLY:O	2.25	0.53
2:M2:279:GLN:CB	2:M2:280:THR:CA	2.85	0.53
3:i2:1:UNK:O	3:i2:2:UNK:C	2.56	0.53
2:M3:133:ILE:CA	2:M3:224:PRO:CB	2.85	0.53
10:t3:2:UNK:O	10:t3:5:UNK:CB	2.56	0.53
14:BC:1600:UNK:O	14:BC:1604:UNK:CB	2.56	0.53
1:L4:210:PHE:O	1:L4:213:ASN:N	2.41	0.53
1:L5:69:LEU:CB	1:L5:74:TRP:HA	2.38	0.53
8:n6:10:UNK:C	8:n6:12:UNK:N	2.67	0.53
1:L1:127:LYS:O	1:L1:131:LEU:N	2.41	0.53
1:L2:310:ILE:O	1:L2:313:PHE:CB	2.55	0.53
2:M2:364:LEU:O	2:M2:367:LEU:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:t2:2:UNK:O	10:t2:5:UNK:CB	2.56	0.53
5:s3:14:UNK:O	5:s3:18:UNK:N	2.41	0.53
1:L6:28:MET:CB	1:L6:31:SER:CB	2.85	0.53
1:L6:210:PHE:O	1:L6:213:ASN:N	2.41	0.53
2:M6:372:THR:CB	2:M6:375:LEU:CB	2.85	0.53
5:s6:14:UNK:O	5:s6:18:UNK:N	2.41	0.53
2:M1:176:PHE:CB	2:M1:179:LEU:N	2.69	0.53
2:M1:391:ILE:O	2:M1:392:THR:CB	2.56	0.53
3:i1:22:UNK:O	3:i1:23:UNK:C	2.54	0.53
10:t1:2:UNK:O	10:t1:5:UNK:CB	2.56	0.53
2:M3:94:LEU:O	2:M3:97:THR:N	2.40	0.53
2:M3:362:ALA:O	2:M3:365:THR:N	2.42	0.53
2:M3:364:LEU:O	2:M3:367:LEU:CB	2.56	0.53
2:M5:68:LEU:C	2:M5:70:MET:N	2.66	0.53
1:L6:69:LEU:CB	1:L6:74:TRP:HA	2.38	0.53
2:M6:176:PHE:O	5:s6:18:UNK:CB	2.56	0.53
2:M1:241:TYR:O	2:M1:243:MET:N	2.40	0.53
2:M1:364:LEU:O	2:M1:367:LEU:N	2.42	0.53
13:w1:26:UNK:O	13:w1:27:UNK:C	2.57	0.53
1:L2:69:LEU:CB	1:L2:74:TRP:HA	2.38	0.53
5:s2:14:UNK:O	5:s2:18:UNK:N	2.41	0.53
1:L4:69:LEU:CB	1:L4:74:TRP:HA	2.38	0.53
1:L4:127:LYS:O	1:L4:131:LEU:N	2.41	0.53
2:M4:133:ILE:CA	2:M4:224:PRO:CB	2.85	0.53
13:w4:26:UNK:O	13:w4:27:UNK:C	2.57	0.53
14:BD:547:UNK:C	14:BE:1591:UNK:N	2.70	0.53
2:M5:364:LEU:O	2:M5:367:LEU:N	2.42	0.53
3:f5:17:UNK:O	3:f5:21:UNK:N	2.42	0.53
7:U5:43:UNK:CB	7:U5:46:UNK:CB	2.85	0.53
10:t6:2:UNK:O	10:t6:5:UNK:CB	2.56	0.53
2:M1:279:GLN:CB	2:M1:280:THR:CA	2.85	0.53
5:s1:14:UNK:O	5:s1:18:UNK:N	2.41	0.53
8:n2:44:UNK:O	8:n2:45:UNK:C	2.56	0.53
1:L5:77:LEU:CA	1:L5:78:THR:CB	2.84	0.53
2:M5:176:PHE:O	5:s5:18:UNK:CB	2.55	0.53
10:t5:2:UNK:O	10:t5:5:UNK:CB	2.56	0.53
2:M6:391:ILE:O	2:M6:392:THR:CB	2.56	0.53
14:BF:1600:UNK:O	14:BF:1604:UNK:CB	2.56	0.53
2:M1:227:GLY:N	2:M1:228:SER:CB	2.72	0.53
2:M4:364:LEU:O	2:M4:367:LEU:CB	2.56	0.53
14:BD:1600:UNK:O	14:BD:1604:UNK:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:U6:23:UNK:CB	7:U6:24:UNK:CA	2.81	0.53
13:w2:26:UNK:O	13:w2:27:UNK:C	2.57	0.53
2:M3:364:LEU:O	2:M3:367:LEU:N	2.42	0.53
3:f3:17:UNK:O	3:f3:21:UNK:N	2.42	0.53
2:M4:391:ILE:O	2:M4:392:THR:CB	2.56	0.53
8:n4:44:UNK:O	8:n4:45:UNK:C	2.55	0.53
1:L5:67:GLN:CB	1:L5:75:HIS:O	2.57	0.53
1:L6:67:GLN:CB	1:L6:75:HIS:O	2.57	0.53
2:M1:362:ALA:O	2:M1:365:THR:N	2.42	0.53
2:M1:364:LEU:O	2:M1:367:LEU:CB	2.56	0.53
14:BB:1600:UNK:O	14:BB:1604:UNK:CB	2.56	0.53
7:U4:37:UNK:HA	7:U4:42:UNK:CB	2.39	0.53
10:t4:2:UNK:O	10:t4:5:UNK:CB	2.56	0.53
1:L5:127:LYS:O	1:L5:131:LEU:N	2.41	0.53
1:L5:207:GLN:CA	1:L5:208:GLN:C	2.82	0.53
2:M6:441:ILE:O	2:M6:445:LEU:N	2.32	0.53
3:f6:17:UNK:O	3:f6:21:UNK:N	2.42	0.53
1:L1:67:GLN:CB	1:L1:75:HIS:O	2.57	0.53
2:M2:227:GLY:N	2:M2:228:SER:CB	2.72	0.53
2:M2:364:LEU:O	2:M2:367:LEU:N	2.42	0.53
7:U2:37:UNK:HA	7:U2:42:UNK:CB	2.39	0.53
8:n2:25:UNK:O	8:n2:28:UNK:N	2.42	0.53
3:i3:1:UNK:O	3:i3:2:UNK:C	2.56	0.53
13:w3:26:UNK:O	13:w3:27:UNK:C	2.57	0.53
2:M6:362:ALA:O	2:M6:365:THR:N	2.42	0.53
3:i6:1:UNK:O	3:i6:2:UNK:C	2.56	0.53
1:L2:67:GLN:CB	1:L2:75:HIS:O	2.57	0.53
1:L2:241:TRP:O	1:L2:244:SER:CB	2.57	0.53
1:L2:502:MET:O	1:L2:506:LEU:N	2.35	0.53
2:M2:121:LEU:O	2:M2:124:ALA:CB	2.53	0.53
1:L4:241:TRP:O	1:L4:244:SER:CB	2.57	0.53
2:M4:362:ALA:O	2:M4:365:THR:N	2.42	0.53
2:M5:279:GLN:CB	2:M5:280:THR:CA	2.85	0.53
1:L6:116:MET:O	1:L6:117:HIS:C	2.45	0.53
1:L6:207:GLN:CB	1:L6:209:ILE:N	2.72	0.53
2:M6:227:GLY:N	2:M6:228:SER:CB	2.72	0.53
2:M6:364:LEU:O	2:M6:367:LEU:N	2.42	0.53
14:BA:1600:UNK:O	14:BA:1604:UNK:CB	2.56	0.52
1:L2:161:LEU:CB	1:L2:162:LEU:HA	2.40	0.52
1:L2:207:GLN:CB	1:L2:209:ILE:N	2.72	0.52
1:L2:207:GLN:CA	1:L2:208:GLN:C	2.82	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:f2:17:UNK:O	3:f2:21:UNK:N	2.42	0.52
2:M3:227:GLY:N	2:M3:228:SER:CB	2.72	0.52
7:U3:37:UNK:HA	7:U3:42:UNK:CB	2.39	0.52
1:L4:161:LEU:HA	1:L4:163:ILE:CA	2.38	0.52
2:M5:293:HIS:O	2:M5:294:MET:C	2.52	0.52
1:L6:161:LEU:CB	1:L6:162:LEU:HA	2.40	0.52
8:n6:25:UNK:O	8:n6:28:UNK:N	2.42	0.52
12:v6:21:UNK:O	12:v6:25:UNK:N	2.42	0.52
1:L1:207:GLN:CB	1:L1:209:ILE:N	2.72	0.52
7:U1:37:UNK:HA	7:U1:42:UNK:CB	2.39	0.52
2:M2:23:ILE:C	2:M2:25:VAL:H	2.16	0.52
11:u2:5:UNK:O	11:u2:8:UNK:N	2.43	0.52
1:L3:323:MET:CB	1:L3:475:LYS:CB	2.88	0.52
1:L4:67:GLN:CB	1:L4:75:HIS:O	2.57	0.52
2:M4:364:LEU:O	2:M4:367:LEU:N	2.42	0.52
13:w5:3:UNK:O	13:w5:4:UNK:C	2.56	0.52
1:L6:207:GLN:CA	1:L6:208:GLN:C	2.82	0.52
2:M6:364:LEU:O	2:M6:367:LEU:CB	2.56	0.52
12:v1:21:UNK:O	12:v1:25:UNK:N	2.42	0.52
2:M2:293:HIS:O	2:M2:294:MET:C	2.52	0.52
11:u3:5:UNK:O	11:u3:8:UNK:N	2.43	0.52
13:w4:3:UNK:O	13:w4:4:UNK:C	2.56	0.52
2:M5:227:GLY:N	2:M5:228:SER:CB	2.72	0.52
2:M5:364:LEU:O	2:M5:367:LEU:CB	2.56	0.52
1:L3:207:GLN:CB	1:L3:209:ILE:N	2.72	0.52
1:L4:323:MET:CB	1:L4:475:LYS:CB	2.88	0.52
4:g4:11:UNK:C	4:g4:13:UNK:N	2.69	0.52
1:L5:207:GLN:CB	1:L5:209:ILE:N	2.72	0.52
2:M5:114:GLU:N	2:M5:177:LEU:CB	2.73	0.52
11:u5:5:UNK:O	11:u5:8:UNK:N	2.43	0.52
1:L6:241:TRP:O	1:L6:244:SER:CB	2.57	0.52
3:f1:17:UNK:O	3:f1:21:UNK:N	2.42	0.52
2:M2:114:GLU:N	2:M2:177:LEU:CB	2.72	0.52
2:M2:115:LEU:N	2:M2:175:ASN:CB	2.73	0.52
2:M3:114:GLU:N	2:M3:177:LEU:CB	2.72	0.52
2:M3:121:LEU:O	2:M3:124:ALA:CB	2.53	0.52
8:n3:25:UNK:O	8:n3:28:UNK:N	2.42	0.52
2:M4:23:ILE:C	2:M4:25:VAL:H	2.16	0.52
3:f4:17:UNK:O	3:f4:21:UNK:N	2.42	0.52
1:L6:279:ASN:O	1:L6:282:ILE:N	2.43	0.52
1:L6:323:MET:CB	1:L6:475:LYS:CB	2.88	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i6:22:UNK:C	3:i6:24:UNK:N	2.71	0.52
2:M1:23:ILE:C	2:M1:25:VAL:H	2.16	0.52
2:M2:106:LEU:C	2:M2:109:THR:H	2.18	0.52
2:M2:362:ALA:O	2:M2:365:THR:N	2.42	0.52
1:L3:67:GLN:CB	1:L3:75:HIS:O	2.57	0.52
1:L3:161:LEU:CB	1:L3:162:LEU:HA	2.40	0.52
1:L3:241:TRP:O	1:L3:244:SER:CB	2.57	0.52
1:L3:279:ASN:O	1:L3:282:ILE:N	2.43	0.52
3:i3:22:UNK:C	3:i3:24:UNK:N	2.71	0.52
14:BC:1588:UNK:N	14:BF:547:UNK:C	2.71	0.52
1:L4:279:ASN:O	1:L4:282:ILE:N	2.43	0.52
2:M4:309:UNK:O	2:M4:312:ALA:N	2.43	0.52
2:M6:62:SER:CB	2:M6:64:PRO:N	2.73	0.52
4:g6:11:UNK:C	4:g6:13:UNK:N	2.69	0.52
1:L1:323:MET:CB	1:L1:475:LYS:CB	2.88	0.52
2:M1:139:GLN:HA	2:M1:140:THR:CB	2.39	0.52
2:M2:62:SER:CB	2:M2:64:PRO:N	2.73	0.52
7:U2:23:UNK:CB	7:U2:24:UNK:CA	2.81	0.52
12:v2:21:UNK:O	12:v2:25:UNK:N	2.42	0.52
2:M3:391:ILE:O	2:M3:392:THR:CB	2.56	0.52
8:n3:10:UNK:C	8:n3:12:UNK:N	2.67	0.52
1:L4:207:GLN:CB	1:L4:209:ILE:N	2.72	0.52
2:M4:293:HIS:O	2:M4:294:MET:C	2.52	0.52
7:U5:37:UNK:HA	7:U5:42:UNK:CB	2.39	0.52
10:t5:34:UNK:C	10:t5:36:UNK:N	2.68	0.52
1:L6:21:PRO:O	1:L6:22:ILE:C	2.52	0.52
13:w6:3:UNK:O	13:w6:4:UNK:C	2.56	0.52
1:L1:207:GLN:CA	1:L1:208:GLN:C	2.82	0.52
1:L1:279:ASN:O	1:L1:282:ILE:N	2.43	0.52
1:L1:488:ILE:O	1:L1:489:SER:C	2.50	0.52
2:M1:441:ILE:O	2:M1:445:LEU:N	2.32	0.52
8:n1:25:UNK:O	8:n1:28:UNK:N	2.42	0.52
1:L2:323:MET:CB	1:L2:475:LYS:CB	2.88	0.52
10:t2:34:UNK:C	10:t2:36:UNK:N	2.68	0.52
1:L3:207:GLN:CA	1:L3:208:GLN:C	2.82	0.52
1:L4:161:LEU:CB	1:L4:162:LEU:HA	2.40	0.52
11:u4:5:UNK:O	11:u4:8:UNK:N	2.42	0.52
1:L5:161:LEU:CB	1:L5:162:LEU:HA	2.40	0.52
1:L5:241:TRP:O	1:L5:244:SER:CB	2.57	0.52
1:L5:279:ASN:O	1:L5:282:ILE:N	2.43	0.52
2:M5:62:SER:CB	2:M5:64:PRO:N	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L6:77:LEU:CA	1:L6:78:THR:CB	2.84	0.52
1:L1:161:LEU:CB	1:L1:162:LEU:HA	2.40	0.52
11:u1:5:UNK:O	11:u1:8:UNK:N	2.42	0.52
13:w1:3:UNK:O	13:w1:4:UNK:C	2.56	0.52
2:M2:22:MET:HA	2:M2:23:ILE:CB	2.40	0.52
12:v3:21:UNK:O	12:v3:25:UNK:N	2.42	0.52
2:M4:227:GLY:N	2:M4:228:SER:CB	2.72	0.52
1:L1:161:LEU:HA	1:L1:163:ILE:CA	2.38	0.52
1:L1:502:MET:O	1:L1:506:LEU:N	2.35	0.52
1:L2:488:ILE:O	1:L2:489:SER:C	2.50	0.52
1:L3:21:PRO:O	1:L3:22:ILE:C	2.52	0.52
1:L4:207:GLN:CA	1:L4:208:GLN:C	2.82	0.52
7:U4:10:UNK:O	7:U4:13:UNK:N	2.43	0.52
10:t4:34:UNK:C	10:t4:36:UNK:N	2.68	0.52
2:M5:180:GLN:C	2:M5:182:TRP:N	2.65	0.52
2:M5:362:ALA:O	2:M5:365:THR:N	2.42	0.52
8:n5:25:UNK:O	8:n5:28:UNK:N	2.42	0.52
12:v5:21:UNK:O	12:v5:25:UNK:N	2.42	0.52
1:L6:70:ILE:O	1:L6:73:ASN:O	2.28	0.52
1:L6:127:LYS:O	1:L6:131:LEU:N	2.41	0.52
2:M6:114:GLU:N	2:M6:177:LEU:CB	2.73	0.52
1:L1:241:TRP:O	1:L1:244:SER:CB	2.57	0.51
2:M1:114:GLU:N	2:M1:177:LEU:CB	2.72	0.51
2:M1:293:HIS:O	2:M1:294:MET:C	2.52	0.51
1:L2:279:ASN:O	1:L2:282:ILE:N	2.43	0.51
2:M2:309:UNK:O	2:M2:312:ALA:N	2.43	0.51
2:M3:23:ILE:C	2:M3:25:VAL:H	2.16	0.51
2:M3:309:UNK:O	2:M3:312:ALA:N	2.43	0.51
2:M4:42:MET:O	2:M4:43:ASN:C	2.53	0.51
2:M4:139:GLN:HA	2:M4:140:THR:CB	2.39	0.51
2:M4:328:CYS:O	2:M4:329:LEU:C	2.52	0.51
8:n4:25:UNK:O	8:n4:28:UNK:N	2.42	0.51
12:v4:21:UNK:O	12:v4:25:UNK:N	2.42	0.51
1:L5:70:ILE:O	1:L5:73:ASN:O	2.28	0.51
1:L5:450:ALA:C	1:L5:453:GLY:H	2.18	0.51
2:M5:22:MET:HA	2:M5:23:ILE:CB	2.40	0.51
7:U5:10:UNK:O	7:U5:13:UNK:N	2.43	0.51
2:M6:115:LEU:N	2:M6:175:ASN:CB	2.73	0.51
7:U6:37:UNK:HA	7:U6:42:UNK:CB	2.39	0.51
1:L1:70:ILE:O	1:L1:73:ASN:O	2.28	0.51
2:M1:62:SER:CB	2:M1:64:PRO:N	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L2:21:PRO:O	1:L2:22:ILE:C	2.52	0.51
10:t2:33:UNK:O	10:t2:36:UNK:N	2.44	0.51
12:v2:3:UNK:O	12:v2:5:UNK:N	2.43	0.51
1:L3:450:ALA:C	1:L3:453:GLY:H	2.18	0.51
10:t3:33:UNK:O	10:t3:36:UNK:N	2.44	0.51
1:L4:21:PRO:O	1:L4:22:ILE:C	2.53	0.51
2:M4:62:SER:CB	2:M4:64:PRO:N	2.73	0.51
1:L5:376:PHE:C	1:L5:378:ALA:N	2.68	0.51
2:M5:115:LEU:N	2:M5:175:ASN:CB	2.73	0.51
2:M5:347:GLY:HA2	2:M5:415:GLN:HA	1.93	0.51
12:v5:3:UNK:O	12:v5:5:UNK:N	2.43	0.51
12:v6:2:UNK:O	12:v6:5:UNK:CB	2.59	0.51
2:M1:115:LEU:N	2:M1:175:ASN:CB	2.73	0.51
2:M1:309:UNK:O	2:M1:312:ALA:N	2.43	0.51
1:L2:117:HIS:O	1:L2:118:SER:C	2.54	0.51
2:M3:62:SER:CB	2:M3:64:PRO:N	2.73	0.51
10:t3:34:UNK:C	10:t3:36:UNK:N	2.68	0.51
12:v3:14:UNK:O	12:v3:17:UNK:CB	2.59	0.51
2:M4:68:LEU:C	2:M4:70:MET:N	2.66	0.51
2:M4:114:GLU:N	2:M4:177:LEU:CB	2.72	0.51
3:i4:22:UNK:C	3:i4:24:UNK:N	2.71	0.51
12:v4:2:UNK:O	12:v4:5:UNK:CB	2.59	0.51
1:L5:21:PRO:O	1:L5:22:ILE:C	2.52	0.51
1:L1:450:ALA:C	1:L1:453:GLY:H	2.19	0.51
12:v1:14:UNK:O	12:v1:17:UNK:CB	2.59	0.51
1:L2:207:GLN:CB	1:L2:209:ILE:CA	2.89	0.51
2:M2:68:LEU:C	2:M2:70:MET:N	2.66	0.51
2:M2:139:GLN:HA	2:M2:140:THR:CB	2.39	0.51
8:n2:53:UNK:O	8:n2:54:UNK:C	2.59	0.51
1:L3:70:ILE:O	1:L3:73:ASN:O	2.28	0.51
2:M3:106:LEU:C	2:M3:109:THR:H	2.18	0.51
12:v3:2:UNK:O	12:v3:5:UNK:CB	2.59	0.51
12:v3:3:UNK:O	12:v3:5:UNK:N	2.43	0.51
1:L4:488:ILE:O	1:L4:489:SER:C	2.50	0.51
1:L5:161:LEU:HA	1:L5:163:ILE:CA	2.38	0.51
2:M5:309:UNK:O	2:M5:312:ALA:N	2.43	0.51
12:v5:14:UNK:O	12:v5:17:UNK:CB	2.59	0.51
1:L6:450:ALA:C	1:L6:453:GLY:H	2.18	0.51
2:M6:139:GLN:HA	2:M6:140:THR:CB	2.39	0.51
13:w6:26:UNK:O	13:w6:27:UNK:C	2.57	0.51
1:L1:47:ALA:O	1:L1:48:ILE:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M1:42:MET:O	2:M1:43:ASN:C	2.53	0.51
2:M1:347:GLY:HA2	2:M1:415:GLN:HA	1.93	0.51
1:L2:450:ALA:C	1:L2:453:GLY:H	2.18	0.51
2:M3:42:MET:O	2:M3:43:ASN:C	2.53	0.51
1:L4:70:ILE:O	1:L4:73:ASN:O	2.28	0.51
2:M4:115:LEU:N	2:M4:175:ASN:CB	2.73	0.51
1:L6:161:LEU:HA	1:L6:163:ILE:CA	2.38	0.51
2:M6:180:GLN:C	2:M6:182:TRP:N	2.65	0.51
2:M6:293:HIS:O	2:M6:294:MET:C	2.52	0.51
2:M2:94:LEU:O	2:M2:95:PHE:C	2.48	0.51
12:v2:14:UNK:O	12:v2:17:UNK:CB	2.59	0.51
2:M3:115:LEU:N	2:M3:175:ASN:CB	2.73	0.51
1:L5:323:MET:CB	1:L5:475:LYS:CB	2.88	0.51
1:L6:207:GLN:CB	1:L6:209:ILE:CA	2.89	0.51
2:M6:309:UNK:O	2:M6:312:ALA:N	2.43	0.51
8:n6:53:UNK:O	8:n6:54:UNK:C	2.59	0.51
11:u6:5:UNK:O	11:u6:8:UNK:N	2.43	0.51
2:M1:180:GLN:C	2:M1:182:TRP:N	2.65	0.51
2:M1:328:CYS:O	2:M1:329:LEU:C	2.52	0.51
2:M2:42:MET:O	2:M2:43:ASN:C	2.53	0.51
12:v2:2:UNK:O	12:v2:5:UNK:CB	2.59	0.51
1:L4:207:GLN:CB	1:L4:209:ILE:CA	2.89	0.51
1:L4:502:MET:O	1:L4:506:LEU:N	2.35	0.51
1:L5:512:ILE:O	1:L5:513:VAL:C	2.53	0.51
2:M5:106:LEU:C	2:M5:109:THR:H	2.18	0.51
10:t5:33:UNK:O	10:t5:36:UNK:N	2.44	0.51
2:M6:106:LEU:C	2:M6:109:THR:H	2.18	0.51
14:BA:1613:UNK:C	14:BA:1617:UNK:CB	2.89	0.51
13:w2:3:UNK:O	13:w2:4:UNK:C	2.56	0.51
14:BB:1613:UNK:C	14:BB:1617:UNK:CB	2.89	0.51
1:L3:512:ILE:O	1:L3:513:VAL:C	2.53	0.51
2:M3:139:GLN:HA	2:M3:140:THR:CB	2.39	0.51
2:M4:22:MET:HA	2:M4:23:ILE:CB	2.40	0.51
3:i4:23:UNK:O	3:i4:26:UNK:N	2.44	0.51
8:n5:53:UNK:O	8:n5:54:UNK:C	2.59	0.51
12:v5:2:UNK:O	12:v5:5:UNK:CB	2.59	0.51
1:L6:190:PHE:HA	1:L6:194:MET:CA	2.40	0.51
12:v6:3:UNK:O	12:v6:5:UNK:N	2.43	0.51
12:v6:14:UNK:O	12:v6:17:UNK:CB	2.59	0.51
14:BF:1613:UNK:C	14:BF:1617:UNK:CB	2.89	0.51
2:M1:106:LEU:C	2:M1:109:THR:H	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:t1:33:UNK:O	10:t1:36:UNK:N	2.44	0.51
2:M4:106:LEU:C	2:M4:109:THR:H	2.18	0.51
8:n5:5:UNK:O	8:n5:8:UNK:CB	2.59	0.51
1:L6:512:ILE:O	1:L6:513:VAL:C	2.53	0.51
2:M6:22:MET:HA	2:M6:23:ILE:CB	2.40	0.51
1:L1:512:ILE:O	1:L1:513:VAL:C	2.53	0.51
7:U1:10:UNK:O	7:U1:13:UNK:N	2.43	0.51
12:v1:2:UNK:O	12:v1:5:UNK:CB	2.59	0.51
2:M3:94:LEU:O	2:M3:95:PHE:C	2.48	0.51
2:M3:293:HIS:O	2:M3:294:MET:C	2.52	0.51
7:U3:10:UNK:O	7:U3:13:UNK:N	2.43	0.51
1:L4:288:CYS:CB	1:L4:308:LYS:CA	2.89	0.51
1:L4:450:ALA:C	1:L4:453:GLY:H	2.18	0.51
2:M4:94:LEU:O	2:M4:95:PHE:C	2.48	0.51
8:n4:5:UNK:O	8:n4:8:UNK:CB	2.59	0.51
10:t4:33:UNK:O	10:t4:36:UNK:N	2.44	0.51
1:L5:207:GLN:CB	1:L5:208:GLN:C	2.84	0.51
1:L5:246:MET:O	1:L5:250:THR:N	2.44	0.51
3:i1:23:UNK:O	3:i1:26:UNK:N	2.44	0.50
1:L3:207:GLN:CB	1:L3:209:ILE:CA	2.89	0.50
1:L4:512:ILE:O	1:L4:513:VAL:C	2.53	0.50
2:M5:139:GLN:HA	2:M5:140:THR:CB	2.39	0.50
1:L6:207:GLN:CB	1:L6:208:GLN:C	2.84	0.50
1:L1:207:GLN:CB	1:L1:208:GLN:C	2.84	0.50
1:L2:246:MET:O	1:L2:250:THR:N	2.44	0.50
8:n2:10:UNK:C	8:n2:12:UNK:N	2.67	0.50
1:L3:161:LEU:HA	1:L3:163:ILE:CA	2.38	0.50
1:L4:35:TYR:O	1:L4:39:ASN:N	2.25	0.50
1:L4:201:LEU:O	1:L4:202:ASN:C	2.54	0.50
1:L4:207:GLN:CB	1:L4:208:GLN:C	2.84	0.50
2:M4:347:GLY:HA2	2:M4:415:GLN:HA	1.93	0.50
8:n4:53:UNK:O	8:n4:54:UNK:C	2.59	0.50
12:v4:14:UNK:O	12:v4:17:UNK:CB	2.59	0.50
2:M5:391:ILE:O	2:M5:392:THR:CB	2.56	0.50
1:L6:35:TYR:O	1:L6:39:ASN:N	2.25	0.50
2:M6:347:GLY:HA2	2:M6:415:GLN:HA	1.93	0.50
10:t6:33:UNK:O	10:t6:36:UNK:N	2.44	0.50
1:L1:21:PRO:O	1:L1:22:ILE:C	2.53	0.50
2:M1:113:MET:CA	2:M1:114:GLU:C	2.85	0.50
7:U2:10:UNK:O	7:U2:13:UNK:N	2.43	0.50
8:n2:5:UNK:O	8:n2:8:UNK:CB	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:161:LEU:CB	1:L5:162:LEU:CA	2.90	0.50
1:L1:161:LEU:CB	1:L1:162:LEU:CA	2.90	0.50
1:L1:207:GLN:CB	1:L1:209:ILE:CA	2.89	0.50
1:L2:207:GLN:CB	1:L2:208:GLN:C	2.84	0.50
8:n3:5:UNK:O	8:n3:8:UNK:CB	2.59	0.50
14:BC:1613:UNK:C	14:BC:1617:UNK:CB	2.89	0.50
1:L4:105:THR:O	1:L4:109:MET:N	2.45	0.50
1:L4:161:LEU:CB	1:L4:162:LEU:CA	2.90	0.50
1:L4:246:MET:O	1:L4:250:THR:N	2.44	0.50
2:M6:113:MET:CA	2:M6:114:GLU:C	2.85	0.50
7:U6:22:UNK:CA	14:BF:1635:UNK:CB	2.88	0.50
1:L1:201:LEU:O	1:L1:202:ASN:C	2.54	0.50
2:M1:22:MET:HA	2:M1:23:ILE:CB	2.40	0.50
2:M1:94:LEU:O	2:M1:95:PHE:C	2.48	0.50
8:n1:5:UNK:O	8:n1:8:UNK:CB	2.59	0.50
8:n1:52:UNK:O	8:n1:55:UNK:CB	2.60	0.50
1:L2:70:ILE:O	1:L2:73:ASN:O	2.28	0.50
1:L2:512:ILE:O	1:L2:513:VAL:C	2.53	0.50
7:U2:22:UNK:CA	14:BB:1635:UNK:CB	2.88	0.50
1:L3:201:LEU:O	1:L3:202:ASN:C	2.54	0.50
1:L3:288:CYS:CB	1:L3:308:LYS:CA	2.89	0.50
2:M3:22:MET:HA	2:M3:23:ILE:CB	2.40	0.50
8:n3:53:UNK:O	8:n3:54:UNK:C	2.59	0.50
2:M4:113:MET:CA	2:M4:114:GLU:C	2.85	0.50
1:L5:105:THR:O	1:L5:109:MET:N	2.45	0.50
3:i5:23:UNK:O	3:i5:26:UNK:N	2.44	0.50
8:n5:52:UNK:O	8:n5:55:UNK:CB	2.60	0.50
1:L6:105:THR:O	1:L6:109:MET:N	2.45	0.50
2:M6:42:MET:O	2:M6:43:ASN:C	2.53	0.50
7:U6:10:UNK:O	7:U6:13:UNK:N	2.43	0.50
2:M1:25:VAL:O	2:M1:26:ASN:C	2.55	0.50
2:M1:61:LEU:CA	2:M1:62:SER:C	2.85	0.50
2:M1:392:THR:C	2:M1:394:ILE:N	2.68	0.50
1:L2:201:LEU:O	1:L2:202:ASN:C	2.54	0.50
3:i2:22:UNK:C	3:i2:24:UNK:N	2.71	0.50
1:L5:35:TYR:O	1:L5:39:ASN:N	2.25	0.50
1:L5:288:CYS:CB	1:L5:308:LYS:CA	2.89	0.50
2:M5:42:MET:O	2:M5:43:ASN:C	2.53	0.50
2:M5:392:THR:C	2:M5:394:ILE:N	2.68	0.50
1:L1:163:ILE:C	1:L1:165:TRP:N	2.69	0.50
3:i2:23:UNK:O	3:i2:26:UNK:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L3:105:THR:O	1:L3:109:MET:N	2.45	0.50
10:t3:53:UNK:O	10:t3:54:UNK:C	2.58	0.50
13:w3:3:UNK:O	13:w3:4:UNK:C	2.56	0.50
14:BC:1609:UNK:O	14:BC:1613:UNK:N	2.45	0.50
4:g4:16:UNK:C	4:g4:18:UNK:N	2.67	0.50
1:L5:207:GLN:CB	1:L5:209:ILE:CA	2.89	0.50
1:L6:29:MET:CA	1:L6:32:PHE:CB	2.86	0.50
3:i6:23:UNK:O	3:i6:26:UNK:N	2.44	0.50
1:L1:288:CYS:CB	1:L1:308:LYS:CA	2.89	0.50
1:L1:376:PHE:C	1:L1:378:ALA:N	2.68	0.50
4:g1:15:UNK:O	4:g1:18:UNK:CB	2.60	0.50
3:i1:22:UNK:C	3:i1:24:UNK:N	2.71	0.50
1:L3:117:HIS:O	1:L3:118:SER:C	2.54	0.50
1:L3:463:ILE:O	1:L3:467:ASN:N	2.35	0.50
1:L4:29:MET:CA	1:L4:32:PHE:CB	2.86	0.50
8:n4:52:UNK:O	8:n4:55:UNK:CB	2.60	0.50
14:BD:1613:UNK:C	14:BD:1617:UNK:CB	2.89	0.50
1:L5:117:HIS:O	1:L5:118:SER:C	2.54	0.50
1:L5:201:LEU:O	1:L5:202:ASN:C	2.54	0.50
14:BE:1613:UNK:C	14:BE:1617:UNK:CB	2.89	0.50
14:BF:1609:UNK:O	14:BF:1613:UNK:N	2.45	0.50
2:M1:396:MET:O	2:M1:399:ASN:N	2.45	0.50
14:BA:1609:UNK:O	14:BA:1613:UNK:N	2.45	0.50
1:L2:38:SER:O	1:L2:39:ASN:C	2.55	0.50
1:L3:29:MET:CA	1:L3:32:PHE:CB	2.86	0.50
1:L6:241:TRP:O	1:L6:244:SER:N	2.45	0.50
2:M6:94:LEU:O	2:M6:95:PHE:C	2.48	0.50
8:n6:5:UNK:O	8:n6:8:UNK:CB	2.59	0.50
1:L1:117:HIS:O	1:L1:118:SER:C	2.54	0.49
12:v1:3:UNK:O	12:v1:5:UNK:N	2.43	0.49
2:M2:113:MET:CA	2:M2:114:GLU:C	2.85	0.49
8:n2:52:UNK:O	8:n2:55:UNK:CB	2.60	0.49
2:M3:347:GLY:HA2	2:M3:415:GLN:HA	1.93	0.49
8:n3:44:UNK:O	8:n3:45:UNK:C	2.55	0.49
12:v3:14:UNK:O	12:v3:18:UNK:N	2.45	0.49
2:M4:392:THR:C	2:M4:394:ILE:N	2.68	0.49
2:M5:23:ILE:C	2:M5:25:VAL:H	2.16	0.49
2:M5:113:MET:CA	2:M5:114:GLU:C	2.85	0.49
1:L1:190:PHE:HA	1:L1:194:MET:CA	2.40	0.49
1:L2:105:THR:O	1:L2:109:MET:N	2.45	0.49
4:g2:15:UNK:O	4:g2:18:UNK:CB	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M3:396:MET:O	2:M3:399:ASN:N	2.45	0.49
3:i3:23:UNK:O	3:i3:26:UNK:N	2.44	0.49
5:s4:11:UNK:O	5:s4:14:UNK:CB	2.60	0.49
12:v4:3:UNK:O	12:v4:5:UNK:N	2.43	0.49
2:M5:61:LEU:CA	2:M5:62:SER:C	2.85	0.49
1:L6:38:SER:O	1:L6:39:ASN:C	2.55	0.49
1:L6:48:ILE:O	1:L6:52:PHE:N	2.46	0.49
1:L6:246:MET:O	1:L6:250:THR:N	2.44	0.49
4:g6:15:UNK:O	4:g6:18:UNK:CB	2.60	0.49
14:BB:1609:UNK:O	14:BB:1613:UNK:N	2.45	0.49
1:L3:163:ILE:C	1:L3:165:TRP:N	2.69	0.49
1:L3:207:GLN:CB	1:L3:208:GLN:C	2.84	0.49
2:M3:113:MET:CA	2:M3:114:GLU:C	2.85	0.49
5:s5:11:UNK:O	5:s5:14:UNK:CB	2.60	0.49
13:w5:26:UNK:O	13:w5:27:UNK:C	2.57	0.49
1:L6:288:CYS:CB	1:L6:308:LYS:CA	2.89	0.49
2:M6:23:ILE:C	2:M6:25:VAL:H	2.16	0.49
2:M6:396:MET:O	2:M6:399:ASN:N	2.45	0.49
1:L1:137:LEU:O	1:L1:140:VAL:CB	2.61	0.49
5:s1:11:UNK:O	5:s1:14:UNK:CB	2.60	0.49
1:L2:241:TRP:O	1:L2:244:SER:N	2.45	0.49
2:M2:328:CYS:O	2:M2:329:LEU:C	2.52	0.49
1:L4:241:TRP:O	1:L4:244:SER:N	2.45	0.49
14:BD:1609:UNK:O	14:BD:1613:UNK:N	2.45	0.49
4:g5:16:UNK:C	4:g5:18:UNK:N	2.67	0.49
1:L6:117:HIS:O	1:L6:118:SER:C	2.54	0.49
1:L6:137:LEU:O	1:L6:140:VAL:CB	2.60	0.49
1:L6:161:LEU:CB	1:L6:162:LEU:CA	2.90	0.49
1:L1:241:TRP:O	1:L1:244:SER:N	2.45	0.49
2:M2:343:ILE:C	2:M2:345:ALA:N	2.71	0.49
1:L3:38:SER:O	1:L3:39:ASN:C	2.55	0.49
1:L3:137:LEU:O	1:L3:140:VAL:CB	2.61	0.49
2:M3:348:LEU:CA	2:M3:351:LEU:CB	2.85	0.49
1:L5:241:TRP:O	1:L5:244:SER:N	2.45	0.49
12:v5:14:UNK:O	12:v5:18:UNK:N	2.45	0.49
1:L2:161:LEU:HA	1:L2:163:ILE:CA	2.38	0.49
1:L2:288:CYS:CB	1:L2:308:LYS:CA	2.89	0.49
2:M2:180:GLN:C	2:M2:182:TRP:N	2.65	0.49
5:s2:11:UNK:O	5:s2:14:UNK:CB	2.60	0.49
1:L3:127:LYS:O	1:L3:131:LEU:N	2.41	0.49
1:L3:190:PHE:HA	1:L3:194:MET:CA	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L3:488:ILE:O	1:L3:489:SER:C	2.50	0.49
1:L4:137:LEU:O	1:L4:140:VAL:CB	2.60	0.49
2:M4:396:MET:O	2:M4:399:ASN:N	2.45	0.49
12:v4:14:UNK:O	12:v4:18:UNK:N	2.45	0.49
1:L5:137:LEU:O	1:L5:140:VAL:CB	2.60	0.49
4:g5:15:UNK:O	4:g5:18:UNK:CB	2.60	0.49
8:n6:52:UNK:O	8:n6:55:UNK:CB	2.60	0.49
1:L2:161:LEU:CB	1:L2:162:LEU:CA	2.90	0.49
2:M2:347:GLY:HA2	2:M2:415:GLN:HA	1.93	0.49
2:M3:61:LEU:CA	2:M3:62:SER:C	2.85	0.49
8:n3:52:UNK:O	8:n3:55:UNK:CB	2.60	0.49
1:L4:190:PHE:HA	1:L4:194:MET:CA	2.40	0.49
7:U4:22:UNK:CA	14:BD:1635:UNK:CB	2.88	0.49
2:M5:396:MET:O	2:M5:399:ASN:N	2.45	0.49
3:i5:22:UNK:C	3:i5:24:UNK:N	2.71	0.49
1:L6:281:TYR:CB	1:L6:315:THR:CA	2.91	0.49
1:L1:105:THR:O	1:L1:109:MET:N	2.45	0.49
1:L3:161:LEU:CB	1:L3:162:LEU:CA	2.90	0.49
1:L3:241:TRP:O	1:L3:244:SER:N	2.45	0.49
1:L3:376:PHE:C	1:L3:378:ALA:N	2.68	0.49
2:M4:61:LEU:CA	2:M4:62:SER:C	2.85	0.49
4:g4:15:UNK:O	4:g4:18:UNK:CB	2.60	0.49
1:L6:348:LEU:C	1:L6:350:MET:H	2.21	0.49
2:M6:61:LEU:CA	2:M6:62:SER:C	2.85	0.49
1:L1:29:MET:CA	1:L1:32:PHE:CB	2.86	0.49
12:v1:14:UNK:O	12:v1:18:UNK:N	2.45	0.49
1:L3:281:TYR:CB	1:L3:315:THR:CA	2.91	0.49
1:L3:348:LEU:C	1:L3:350:MET:H	2.21	0.49
2:M4:180:GLN:C	2:M4:182:TRP:N	2.65	0.49
1:L1:38:SER:O	1:L1:39:ASN:C	2.55	0.49
1:L2:281:TYR:CB	1:L2:315:THR:CA	2.91	0.49
2:M2:61:LEU:CA	2:M2:62:SER:C	2.85	0.49
12:v2:14:UNK:O	12:v2:18:UNK:N	2.45	0.49
2:M3:25:VAL:O	2:M3:26:ASN:C	2.55	0.49
2:M3:180:GLN:C	2:M3:182:TRP:N	2.65	0.49
1:L5:47:ALA:O	1:L5:48:ILE:C	2.53	0.49
2:M5:25:VAL:O	2:M5:26:ASN:C	2.55	0.49
5:s6:21:UNK:O	5:s6:22:UNK:C	2.61	0.49
2:M3:343:ILE:C	2:M3:345:ALA:N	2.71	0.48
4:g3:15:UNK:O	4:g3:18:UNK:CB	2.60	0.48
1:L4:47:ALA:O	1:L4:48:ILE:C	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L6:463:ILE:O	1:L6:467:ASN:N	2.35	0.48
5:s3:11:UNK:O	5:s3:14:UNK:CB	2.60	0.48
2:M4:63:THR:O	2:M4:66:LEU:N	2.47	0.48
14:BE:1609:UNK:O	14:BE:1613:UNK:N	2.45	0.48
1:L6:376:PHE:C	1:L6:378:ALA:N	2.68	0.48
2:M6:63:THR:O	2:M6:66:LEU:N	2.47	0.48
1:L1:55:SER:N	1:L1:56:MET:C	2.71	0.48
1:L2:137:LEU:O	1:L2:140:VAL:CB	2.60	0.48
2:M3:63:THR:O	2:M3:66:LEU:N	2.47	0.48
1:L4:348:LEU:C	1:L4:350:MET:H	2.21	0.48
5:s4:21:UNK:O	5:s4:22:UNK:C	2.61	0.48
1:L1:281:TYR:CB	1:L1:315:THR:CA	2.91	0.48
13:w1:16:UNK:O	13:w1:20:UNK:N	2.47	0.48
2:M2:25:VAL:O	2:M2:26:ASN:C	2.55	0.48
1:L4:281:TYR:CB	1:L4:315:THR:CA	2.91	0.48
1:L4:376:PHE:C	1:L4:378:ALA:N	2.68	0.48
1:L5:38:SER:O	1:L5:39:ASN:C	2.55	0.48
1:L5:48:ILE:O	1:L5:52:PHE:N	2.46	0.48
2:M5:63:THR:O	2:M5:66:LEU:N	2.47	0.48
2:M5:386:PHE:HA	2:M5:390:ASN:HA	1.96	0.48
1:L6:47:ALA:O	1:L6:48:ILE:C	2.53	0.48
5:s6:11:UNK:O	5:s6:14:UNK:CB	2.60	0.48
12:v6:14:UNK:O	12:v6:18:UNK:N	2.45	0.48
1:L2:348:LEU:C	1:L2:350:MET:H	2.21	0.48
3:h2:12:UNK:O	3:h2:15:UNK:CB	2.62	0.48
1:L3:35:TYR:O	1:L3:39:ASN:N	2.25	0.48
2:M3:393:ILE:O	2:M3:394:ILE:C	2.56	0.48
1:L4:117:HIS:O	1:L4:118:SER:C	2.54	0.48
13:w4:16:UNK:O	13:w4:20:UNK:N	2.47	0.48
1:L5:281:TYR:CB	1:L5:315:THR:CA	2.91	0.48
10:t1:53:UNK:O	10:t1:54:UNK:C	2.58	0.48
2:M2:63:THR:O	2:M2:66:LEU:N	2.47	0.48
1:L3:246:MET:O	1:L3:250:THR:N	2.44	0.48
3:h4:12:UNK:O	3:h4:15:UNK:CB	2.62	0.48
14:BD:547:UNK:O	14:BE:1589:UNK:C	2.56	0.48
2:M5:341:THR:O	2:M5:342:MET:C	2.56	0.48
2:M5:393:ILE:O	2:M5:394:ILE:C	2.57	0.48
8:n6:44:UNK:O	8:n6:45:UNK:C	2.55	0.48
13:w6:16:UNK:O	13:w6:20:UNK:N	2.47	0.48
2:M1:341:THR:O	2:M1:342:MET:C	2.56	0.48
2:M1:378:GLU:C	2:M1:380:PHE:N	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:n1:44:UNK:O	8:n1:45:UNK:C	2.55	0.48
2:M2:341:THR:O	2:M2:342:MET:C	2.56	0.48
2:M2:396:MET:O	2:M2:399:ASN:N	2.45	0.48
13:w2:16:UNK:O	13:w2:20:UNK:N	2.47	0.48
2:M3:386:PHE:HA	2:M3:390:ASN:HA	1.96	0.48
3:h3:12:UNK:O	3:h3:15:UNK:CB	2.62	0.48
5:s3:21:UNK:O	5:s3:22:UNK:C	2.61	0.48
1:L4:55:SER:N	1:L4:56:MET:C	2.71	0.48
1:L4:94:SER:O	1:L4:95:MET:C	2.56	0.48
2:M4:113:MET:CA	2:M4:114:GLU:CB	2.89	0.48
1:L5:225:LEU:O	1:L5:229:ALA:HB3	2.14	0.48
2:M6:25:VAL:O	2:M6:26:ASN:C	2.55	0.48
2:M6:133:ILE:HA	2:M6:224:PRO:CB	2.44	0.48
2:M6:256:PHE:O	2:M6:257:MET:C	2.56	0.48
2:M1:256:PHE:O	2:M1:257:MET:C	2.56	0.48
2:M1:393:ILE:O	2:M1:394:ILE:C	2.57	0.48
1:L2:163:ILE:C	1:L2:165:TRP:N	2.69	0.48
2:M2:241:TYR:C	2:M2:243:MET:N	2.71	0.48
2:M2:378:GLU:C	2:M2:380:PHE:N	2.72	0.48
1:L4:225:LEU:O	1:L4:229:ALA:HB3	2.14	0.48
2:M4:348:LEU:CA	2:M4:351:LEU:CB	2.85	0.48
2:M4:386:PHE:HA	2:M4:390:ASN:HA	1.96	0.48
1:L5:55:SER:N	1:L5:56:MET:C	2.71	0.48
8:n1:53:UNK:O	8:n1:54:UNK:C	2.59	0.48
1:L2:181:LEU:C	1:L2:183:ASN:N	2.71	0.48
1:L2:339:CYS:O	1:L2:342:ALA:N	2.47	0.48
2:M3:341:THR:O	2:M3:342:MET:C	2.56	0.48
13:w3:16:UNK:O	13:w3:20:UNK:N	2.47	0.48
2:M4:133:ILE:CB	2:M4:224:PRO:CB	2.92	0.48
2:M4:241:TYR:C	2:M4:243:MET:N	2.71	0.48
1:L6:201:LEU:O	1:L6:202:ASN:C	2.54	0.48
1:L6:339:CYS:O	1:L6:342:ALA:N	2.47	0.48
2:M2:133:ILE:CB	2:M2:224:PRO:CB	2.92	0.48
2:M2:348:LEU:CA	2:M2:351:LEU:CB	2.85	0.48
3:f3:18:UNK:O	3:f3:22:UNK:N	2.47	0.48
1:L4:38:SER:O	1:L4:39:ASN:C	2.55	0.48
2:M4:341:THR:O	2:M4:342:MET:C	2.56	0.48
2:M6:341:THR:O	2:M6:342:MET:C	2.56	0.48
1:L1:48:ILE:O	1:L1:52:PHE:N	2.46	0.47
2:M1:133:ILE:CB	2:M1:224:PRO:CB	2.92	0.47
2:M1:133:ILE:HA	2:M1:224:PRO:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M1:386:PHE:HA	2:M1:390:ASN:HA	1.96	0.47
7:U1:22:UNK:CA	14:BA:1635:UNK:CB	2.88	0.47
1:L2:225:LEU:O	1:L2:229:ALA:HB3	2.14	0.47
3:f2:18:UNK:O	3:f2:22:UNK:N	2.47	0.47
14:BB:1609:UNK:O	14:BB:1613:UNK:CB	2.62	0.47
1:L3:181:LEU:C	1:L3:183:ASN:N	2.71	0.47
2:M3:133:ILE:CB	2:M3:224:PRO:CB	2.92	0.47
1:L6:488:ILE:O	1:L6:489:SER:C	2.50	0.47
2:M6:378:GLU:C	2:M6:380:PHE:N	2.72	0.47
1:L1:246:MET:O	1:L1:250:THR:N	2.44	0.47
10:t1:9:UNK:O	10:t1:10:UNK:C	2.61	0.47
1:L2:35:TYR:O	1:L2:39:ASN:N	2.25	0.47
1:L2:47:ALA:O	1:L2:48:ILE:C	2.53	0.47
1:L2:94:SER:O	1:L2:95:MET:C	2.56	0.47
1:L2:450:ALA:O	1:L2:453:GLY:N	2.47	0.47
5:s2:21:UNK:O	5:s2:22:UNK:C	2.61	0.47
1:L3:339:CYS:O	1:L3:342:ALA:N	2.47	0.47
2:M4:287:ALA:O	2:M4:288:TYR:C	2.57	0.47
2:M5:328:CYS:O	2:M5:329:LEU:C	2.52	0.47
2:M6:343:ILE:C	2:M6:345:ALA:N	2.71	0.47
3:f6:18:UNK:O	3:f6:22:UNK:N	2.47	0.47
1:L1:339:CYS:O	1:L1:342:ALA:N	2.47	0.47
1:L1:348:LEU:C	1:L1:350:MET:H	2.21	0.47
2:M1:63:THR:O	2:M1:66:LEU:N	2.47	0.47
2:M1:351:LEU:O	2:M1:352:LEU:CB	2.62	0.47
14:BA:1609:UNK:O	14:BA:1613:UNK:CB	2.62	0.47
14:BB:1625:UNK:O	14:BB:1626:UNK:O	2.33	0.47
1:L5:94:SER:O	1:L5:95:MET:C	2.56	0.47
2:M5:351:LEU:O	2:M5:352:LEU:CB	2.62	0.47
13:w5:16:UNK:O	13:w5:20:UNK:N	2.47	0.47
2:M1:61:LEU:N	2:M1:62:SER:C	2.73	0.47
2:M1:68:LEU:C	2:M1:70:MET:N	2.66	0.47
2:M1:190:TRP:N	2:M1:191:SER:C	2.73	0.47
3:h1:12:UNK:O	3:h1:15:UNK:CB	2.62	0.47
2:M2:133:ILE:HA	2:M2:224:PRO:CB	2.44	0.47
2:M2:351:LEU:O	2:M2:352:LEU:CB	2.62	0.47
1:L3:65:SER:CB	1:L3:66:GLY:C	2.83	0.47
1:L3:225:LEU:O	1:L3:229:ALA:HB3	2.14	0.47
2:M3:133:ILE:HA	2:M3:224:PRO:CB	2.44	0.47
2:M4:256:PHE:O	2:M4:257:MET:C	2.56	0.47
10:t4:53:UNK:O	10:t4:54:UNK:C	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M6:188:ASN:CB	2:M6:189:SER:CA	2.93	0.47
3:h6:12:UNK:O	3:h6:15:UNK:CB	2.62	0.47
2:M2:386:PHE:HA	2:M2:390:ASN:HA	1.96	0.47
2:M2:393:ILE:O	2:M2:394:ILE:C	2.57	0.47
8:n2:10:UNK:O	8:n2:13:UNK:CB	2.63	0.47
10:t2:9:UNK:O	10:t2:10:UNK:C	2.61	0.47
1:L3:396:MET:O	1:L3:399:LEU:N	2.48	0.47
2:M3:61:LEU:N	2:M3:62:SER:C	2.73	0.47
2:M3:287:ALA:O	2:M3:288:TYR:C	2.57	0.47
4:g3:11:UNK:O	4:g3:13:UNK:N	2.48	0.47
2:M4:25:VAL:O	2:M4:26:ASN:C	2.55	0.47
5:p4:11:UNK:C	5:p4:13:UNK:N	2.76	0.47
14:BD:1609:UNK:O	14:BD:1613:UNK:CB	2.62	0.47
1:L5:396:MET:O	1:L5:399:LEU:N	2.48	0.47
2:M5:133:ILE:CB	2:M5:224:PRO:CB	2.92	0.47
2:M5:241:TYR:C	2:M5:243:MET:N	2.71	0.47
3:h5:12:UNK:O	3:h5:15:UNK:CB	2.62	0.47
1:L6:55:SER:N	1:L6:56:MET:C	2.71	0.47
1:L6:396:MET:O	1:L6:399:LEU:N	2.48	0.47
2:M6:393:ILE:O	2:M6:394:ILE:C	2.57	0.47
3:f1:18:UNK:O	3:f1:22:UNK:N	2.47	0.47
1:L2:376:PHE:C	1:L2:378:ALA:N	2.68	0.47
2:M2:441:ILE:O	2:M2:445:LEU:N	2.32	0.47
1:L3:450:ALA:O	1:L3:453:GLY:N	2.47	0.47
2:M3:188:ASN:CB	2:M3:189:SER:CA	2.93	0.47
2:M3:351:LEU:O	2:M3:352:LEU:CB	2.62	0.47
14:BC:1590:UNK:N	14:BF:547:UNK:CB	2.78	0.47
1:L4:48:ILE:O	1:L4:52:PHE:N	2.45	0.47
1:L4:339:CYS:O	1:L4:342:ALA:N	2.47	0.47
2:M4:106:LEU:HA	2:M4:109:THR:CB	2.45	0.47
4:g4:11:UNK:O	4:g4:13:UNK:N	2.48	0.47
1:L5:190:PHE:HA	1:L5:194:MET:CA	2.40	0.47
2:M5:61:LEU:N	2:M5:62:SER:C	2.73	0.47
14:BE:1625:UNK:O	14:BE:1626:UNK:O	2.33	0.47
5:p1:11:UNK:C	5:p1:13:UNK:N	2.76	0.47
14:BA:1625:UNK:O	14:BA:1626:UNK:O	2.33	0.47
1:L2:61:MET:CA	1:L2:80:GLN:CB	2.93	0.47
1:L2:396:MET:O	1:L2:399:LEU:N	2.48	0.47
2:M3:256:PHE:O	2:M3:257:MET:C	2.56	0.47
2:M3:384:SER:C	2:M3:386:PHE:N	2.72	0.47
1:L5:339:CYS:O	1:L5:342:ALA:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:450:ALA:O	1:L5:453:GLY:N	2.47	0.47
2:M5:27:SER:O	2:M5:28:THR:C	2.58	0.47
2:M5:190:TRP:N	2:M5:191:SER:C	2.73	0.47
2:M5:287:ALA:O	2:M5:288:TYR:C	2.57	0.47
4:g5:11:UNK:O	4:g5:13:UNK:N	2.48	0.47
1:L6:61:MET:CA	1:L6:80:GLN:CB	2.93	0.47
1:L6:450:ALA:O	1:L6:453:GLY:N	2.47	0.47
1:L1:450:ALA:O	1:L1:453:GLY:N	2.47	0.47
2:M1:287:ALA:O	2:M1:288:TYR:C	2.57	0.47
14:BB:1614:UNK:C	14:BB:1617:UNK:CA	2.88	0.47
1:L3:47:ALA:O	1:L3:48:ILE:C	2.53	0.47
2:M4:133:ILE:HA	2:M4:224:PRO:CB	2.44	0.47
2:M4:188:ASN:CB	2:M4:189:SER:CA	2.93	0.47
3:f4:18:UNK:O	3:f4:22:UNK:N	2.47	0.47
1:L5:348:LEU:C	1:L5:350:MET:H	2.21	0.47
1:L5:488:ILE:O	1:L5:489:SER:C	2.50	0.47
2:M5:63:THR:O	2:M5:67:ILE:N	2.44	0.47
3:f5:18:UNK:O	3:f5:22:UNK:N	2.47	0.47
14:BE:1609:UNK:O	14:BE:1613:UNK:CB	2.62	0.47
2:M6:133:ILE:CB	2:M6:224:PRO:CB	2.92	0.47
2:M6:190:TRP:N	2:M6:191:SER:C	2.73	0.47
14:BF:1609:UNK:O	14:BF:1613:UNK:CB	2.62	0.47
1:L2:95:MET:O	1:L2:98:THR:N	2.48	0.47
2:M2:106:LEU:HA	2:M2:109:THR:CB	2.45	0.47
2:M3:190:TRP:N	2:M3:191:SER:C	2.73	0.47
8:n3:10:UNK:O	8:n3:13:UNK:CB	2.63	0.47
2:M4:190:TRP:N	2:M4:191:SER:C	2.73	0.47
2:M4:351:LEU:O	2:M4:352:LEU:CB	2.62	0.47
8:n4:10:UNK:O	8:n4:13:UNK:CB	2.63	0.47
14:BD:1625:UNK:O	14:BD:1626:UNK:O	2.33	0.47
1:L5:82:LEU:N	1:L5:86:LEU:CB	2.73	0.47
1:L6:163:ILE:C	1:L6:165:TRP:N	2.69	0.47
1:L1:65:SER:CB	1:L1:66:GLY:C	2.83	0.47
8:n1:10:UNK:O	8:n1:13:UNK:CB	2.63	0.47
5:s1:21:UNK:O	5:s1:22:UNK:C	2.61	0.47
1:L2:190:PHE:HA	1:L2:194:MET:CA	2.40	0.47
2:M2:61:LEU:N	2:M2:62:SER:C	2.73	0.47
1:L3:47:ALA:C	1:L3:49:SER:N	2.71	0.47
1:L4:181:LEU:C	1:L4:183:ASN:N	2.71	0.47
2:M4:61:LEU:N	2:M4:62:SER:C	2.73	0.47
2:M4:441:ILE:O	2:M4:445:LEU:N	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:95:MET:O	1:L5:98:THR:N	2.48	0.47
1:L5:321:LEU:O	1:L5:324:VAL:C	2.58	0.47
2:M5:441:ILE:O	2:M5:445:LEU:N	2.32	0.47
1:L6:225:LEU:O	1:L6:229:ALA:HB3	2.14	0.47
2:M6:27:SER:O	2:M6:28:THR:C	2.58	0.47
2:M6:61:LEU:N	2:M6:62:SER:C	2.73	0.47
2:M6:328:CYS:O	2:M6:329:LEU:C	2.52	0.47
8:n6:10:UNK:O	8:n6:13:UNK:CB	2.63	0.47
1:L1:225:LEU:O	1:L1:229:ALA:HB3	2.14	0.46
1:L1:321:LEU:O	1:L1:324:VAL:C	2.58	0.46
2:M1:188:ASN:CB	2:M1:189:SER:CA	2.93	0.46
2:M1:384:SER:C	2:M1:386:PHE:N	2.72	0.46
4:g1:11:UNK:O	4:g1:13:UNK:N	2.48	0.46
2:M2:190:TRP:N	2:M2:191:SER:C	2.73	0.46
10:t2:53:UNK:O	10:t2:54:UNK:C	2.58	0.46
2:M3:168:GLN:CB	2:M3:174:LEU:CB	2.93	0.46
14:BC:1609:UNK:O	14:BC:1613:UNK:CB	2.62	0.46
2:M5:168:GLN:CB	2:M5:174:LEU:CB	2.93	0.46
8:n5:10:UNK:O	8:n5:13:UNK:CB	2.63	0.46
2:M6:106:LEU:HA	2:M6:109:THR:CB	2.45	0.46
2:M6:157:SER:O	2:M6:160:LEU:N	2.48	0.46
2:M6:273:SER:O	2:M6:276:CYS:N	2.49	0.46
10:t6:53:UNK:O	10:t6:54:UNK:C	2.58	0.46
1:L1:396:MET:O	1:L1:399:LEU:N	2.48	0.46
2:M1:106:LEU:HA	2:M1:109:THR:CB	2.45	0.46
2:M2:113:MET:CA	2:M2:114:GLU:CB	2.89	0.46
2:M2:188:ASN:CB	2:M2:189:SER:CA	2.93	0.46
4:g2:11:UNK:O	4:g2:13:UNK:N	2.48	0.46
1:L4:95:MET:O	1:L4:98:THR:N	2.48	0.46
1:L5:163:ILE:C	1:L5:165:TRP:N	2.69	0.46
5:j5:22:UNK:O	5:j5:25:UNK:N	2.48	0.46
1:L6:321:LEU:O	1:L6:324:VAL:C	2.58	0.46
4:g6:11:UNK:O	4:g6:13:UNK:N	2.48	0.46
5:j6:22:UNK:O	5:j6:25:UNK:N	2.48	0.46
12:v6:19:UNK:O	12:v6:23:UNK:N	2.49	0.46
14:BA:1614:UNK:C	14:BA:1617:UNK:CA	2.88	0.46
1:L2:31:SER:O	1:L2:35:TYR:N	2.41	0.46
2:M2:256:PHE:O	2:M2:257:MET:C	2.56	0.46
2:M3:106:LEU:HA	2:M3:109:THR:CB	2.45	0.46
2:M3:341:THR:C	2:M3:342:MET:O	2.56	0.46
1:L4:450:ALA:O	1:L4:453:GLY:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M4:168:GLN:CB	2:M4:174:LEU:CB	2.93	0.46
2:M4:393:ILE:O	2:M4:394:ILE:C	2.57	0.46
2:M5:23:ILE:C	2:M5:25:VAL:N	2.74	0.46
2:M5:188:ASN:CB	2:M5:189:SER:CA	2.93	0.46
2:M5:256:PHE:O	2:M5:257:MET:C	2.56	0.46
3:i5:27:UNK:C	3:i5:28:UNK:O	2.56	0.46
7:U5:22:UNK:CA	14:BE:1635:UNK:CB	2.88	0.46
1:L6:95:MET:O	1:L6:98:THR:N	2.48	0.46
14:BF:1625:UNK:O	14:BF:1626:UNK:O	2.33	0.46
3:i1:27:UNK:C	3:i1:28:UNK:O	2.56	0.46
12:v1:10:UNK:O	12:v1:13:UNK:N	2.49	0.46
1:L2:271:ARG:O	1:L2:274:PRO:N	2.49	0.46
2:M2:157:SER:O	2:M2:160:LEU:N	2.48	0.46
2:M2:273:SER:O	2:M2:276:CYS:N	2.49	0.46
1:L3:321:LEU:O	1:L3:324:VAL:C	2.58	0.46
2:M3:27:SER:O	2:M3:28:THR:C	2.58	0.46
2:M3:273:SER:O	2:M3:276:CYS:N	2.49	0.46
1:L4:396:MET:O	1:L4:399:LEU:N	2.48	0.46
2:M4:273:SER:O	2:M4:276:CYS:N	2.49	0.46
10:t5:53:UNK:O	10:t5:54:UNK:C	2.58	0.46
1:L1:271:ARG:O	1:L1:274:PRO:N	2.49	0.46
1:L1:316:SER:O	1:L1:319:LEU:CA	2.64	0.46
2:M1:27:SER:O	2:M1:28:THR:C	2.58	0.46
5:s2:23:UNK:O	5:s2:26:UNK:N	2.49	0.46
1:L3:94:SER:O	1:L3:95:MET:C	2.56	0.46
1:L3:316:SER:O	1:L3:319:LEU:CA	2.64	0.46
2:M3:62:SER:N	2:M3:63:THR:CA	2.77	0.46
2:M4:157:SER:O	2:M4:160:LEU:N	2.48	0.46
5:s4:23:UNK:O	5:s4:26:UNK:N	2.49	0.46
2:M5:106:LEU:HA	2:M5:109:THR:CB	2.45	0.46
2:M6:351:LEU:O	2:M6:352:LEU:CB	2.62	0.46
12:v6:10:UNK:O	12:v6:13:UNK:N	2.49	0.46
2:M1:157:SER:O	2:M1:160:LEU:N	2.48	0.46
1:L2:55:SER:N	1:L2:56:MET:C	2.71	0.46
1:L3:314:SER:O	1:L3:317:SER:N	2.49	0.46
5:s3:23:UNK:O	5:s3:26:UNK:N	2.49	0.46
3:h4:10:UNK:C	3:h4:12:UNK:N	2.77	0.46
7:U4:55:UNK:O	7:U4:58:UNK:O	2.34	0.46
12:v4:10:UNK:O	12:v4:13:UNK:N	2.49	0.46
1:L5:61:MET:CA	1:L5:80:GLN:CB	2.93	0.46
2:M5:157:SER:O	2:M5:160:LEU:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M6:63:THR:O	2:M6:67:ILE:N	2.44	0.46
2:M1:87:GLU:HA	2:M1:89:LEU:HA	1.98	0.46
5:p2:8:UNK:O	5:p2:9:UNK:C	2.64	0.46
12:v2:10:UNK:O	12:v2:13:UNK:N	2.49	0.46
2:M3:38:SER:O	2:M3:41:LEU:N	2.49	0.46
12:v3:10:UNK:O	12:v3:13:UNK:N	2.49	0.46
1:L4:321:LEU:O	1:L4:324:VAL:C	2.58	0.46
2:M5:133:ILE:HA	2:M5:224:PRO:CB	2.44	0.46
3:f5:20:UNK:O	3:f5:24:UNK:CB	2.64	0.46
10:t5:9:UNK:O	10:t5:10:UNK:C	2.61	0.46
2:M6:386:PHE:HA	2:M6:390:ASN:HA	1.96	0.46
3:f6:20:UNK:O	3:f6:24:UNK:CB	2.64	0.46
10:t6:9:UNK:O	10:t6:10:UNK:C	2.62	0.46
2:M1:341:THR:C	2:M1:342:MET:O	2.56	0.46
1:L2:316:SER:O	1:L2:319:LEU:CA	2.64	0.46
2:M2:52:PHE:HA	2:M2:53:SER:HA	1.71	0.46
2:M2:255:ASP:O	2:M2:258:ALA:CB	2.63	0.46
2:M2:327:PHE:O	2:M2:330:ALA:N	2.49	0.46
5:j2:22:UNK:O	5:j2:25:UNK:N	2.48	0.46
2:M3:241:TYR:C	2:M3:243:MET:N	2.71	0.46
5:j3:22:UNK:O	5:j3:25:UNK:N	2.48	0.46
1:L4:271:ARG:O	1:L4:274:PRO:N	2.49	0.46
5:j4:22:UNK:O	5:j4:25:UNK:N	2.48	0.46
1:L5:271:ARG:O	1:L5:274:PRO:N	2.49	0.46
2:M5:273:SER:O	2:M5:276:CYS:N	2.48	0.46
2:M5:327:PHE:O	2:M5:330:ALA:N	2.49	0.46
12:v5:19:UNK:O	12:v5:23:UNK:N	2.49	0.46
2:M6:38:SER:O	2:M6:41:LEU:N	2.49	0.46
2:M1:168:GLN:CB	2:M1:174:LEU:CB	2.93	0.46
5:j1:22:UNK:O	5:j1:25:UNK:N	2.49	0.46
12:v1:19:UNK:O	12:v1:23:UNK:N	2.49	0.46
1:L2:48:ILE:O	1:L2:52:PHE:N	2.46	0.46
2:M2:432:ARG:O	2:M2:435:ALA:N	2.49	0.46
12:v2:19:UNK:O	12:v2:23:UNK:N	2.49	0.46
2:M3:327:PHE:O	2:M3:330:ALA:N	2.49	0.46
3:f3:20:UNK:O	3:f3:24:UNK:CB	2.64	0.46
3:i3:27:UNK:C	3:i3:28:UNK:O	2.56	0.46
14:BC:1625:UNK:O	14:BC:1626:UNK:O	2.33	0.46
2:M5:38:SER:O	2:M5:41:LEU:N	2.49	0.46
2:M5:343:ILE:C	2:M5:345:ALA:N	2.71	0.46
4:g5:9:UNK:O	4:g5:12:UNK:CB	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L1:314:SER:O	1:L1:317:SER:N	2.49	0.46
2:M1:38:SER:O	2:M1:41:LEU:N	2.49	0.46
2:M1:327:PHE:O	2:M1:330:ALA:N	2.49	0.46
2:M2:168:GLN:CB	2:M2:174:LEU:CB	2.93	0.46
7:U2:55:UNK:O	7:U2:58:UNK:O	2.34	0.46
10:t2:4:UNK:O	10:t2:7:UNK:N	2.49	0.46
2:M3:87:GLU:HA	2:M3:89:LEU:HA	1.97	0.46
1:L4:47:ALA:C	1:L4:49:SER:N	2.71	0.46
2:M4:384:SER:C	2:M4:386:PHE:N	2.72	0.46
3:i4:27:UNK:C	3:i4:28:UNK:O	2.56	0.46
1:L5:151:GLY:O	1:L5:155:VAL:CA	2.64	0.46
1:L5:316:SER:O	1:L5:319:LEU:CA	2.64	0.46
10:t5:4:UNK:O	10:t5:7:UNK:N	2.49	0.46
1:L6:271:ARG:O	1:L6:274:PRO:N	2.49	0.46
2:M1:118:PHE:O	2:M1:121:LEU:N	2.50	0.45
5:s1:23:UNK:O	5:s1:26:UNK:N	2.49	0.45
10:t1:4:UNK:O	10:t1:7:UNK:N	2.50	0.45
1:L2:321:LEU:O	1:L2:324:VAL:C	2.58	0.45
2:M2:63:THR:O	2:M2:67:ILE:N	2.44	0.45
2:M2:341:THR:C	2:M2:342:MET:O	2.56	0.45
1:L3:48:ILE:O	1:L3:52:PHE:N	2.46	0.45
1:L3:61:MET:CA	1:L3:80:GLN:CB	2.93	0.45
1:L3:95:MET:O	1:L3:98:THR:N	2.48	0.45
2:M3:157:SER:O	2:M3:160:LEU:N	2.48	0.45
1:L4:239:HIS:C	1:L4:240:PRO:O	2.60	0.45
5:s5:23:UNK:O	5:s5:26:UNK:N	2.49	0.45
2:M6:87:GLU:HA	2:M6:89:LEU:HA	1.98	0.45
2:M6:168:GLN:CB	2:M6:174:LEU:CB	2.93	0.45
5:s6:23:UNK:O	5:s6:26:UNK:N	2.49	0.45
1:L3:271:ARG:O	1:L3:274:PRO:N	2.49	0.45
2:M3:63:THR:O	2:M3:67:ILE:N	2.44	0.45
1:L4:61:MET:CA	1:L4:80:GLN:CB	2.93	0.45
2:M4:27:SER:O	2:M4:28:THR:C	2.58	0.45
5:p4:8:UNK:O	5:p4:9:UNK:C	2.64	0.45
1:L5:181:LEU:C	1:L5:183:ASN:N	2.71	0.45
1:L6:52:PHE:C	1:L6:54:THR:N	2.73	0.45
1:L6:316:SER:O	1:L6:319:LEU:CA	2.64	0.45
2:M6:118:PHE:O	2:M6:121:LEU:N	2.50	0.45
2:M6:241:TYR:C	2:M6:243:MET:N	2.71	0.45
2:M6:327:PHE:O	2:M6:330:ALA:N	2.49	0.45
2:M6:384:SER:C	2:M6:386:PHE:N	2.72	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M6:392:THR:C	2:M6:394:ILE:N	2.68	0.45
2:M1:343:ILE:C	2:M1:345:ALA:N	2.71	0.45
2:M1:348:LEU:CA	2:M1:351:LEU:CB	2.85	0.45
2:M2:87:GLU:HA	2:M2:89:LEU:HA	1.98	0.45
1:L3:52:PHE:C	1:L3:54:THR:N	2.73	0.45
7:U3:22:UNK:CA	14:BC:1635:UNK:CB	2.88	0.45
10:t3:4:UNK:O	10:t3:7:UNK:N	2.49	0.45
1:L4:65:SER:CB	1:L4:66:GLY:C	2.83	0.45
1:L6:151:GLY:O	1:L6:155:VAL:CA	2.64	0.45
1:L6:181:LEU:C	1:L6:183:ASN:N	2.71	0.45
10:t6:4:UNK:O	10:t6:7:UNK:N	2.49	0.45
1:L1:94:SER:O	1:L1:95:MET:C	2.56	0.45
2:M1:432:ARG:O	2:M1:435:ALA:N	2.49	0.45
4:g2:9:UNK:O	4:g2:12:UNK:CB	2.64	0.45
2:M3:328:CYS:O	2:M3:329:LEU:C	2.52	0.45
2:M3:432:ARG:O	2:M3:435:ALA:N	2.49	0.45
4:g3:9:UNK:O	4:g3:12:UNK:CB	2.64	0.45
1:L4:151:GLY:O	1:L4:155:VAL:CA	2.64	0.45
1:L4:316:SER:O	1:L4:319:LEU:CA	2.64	0.45
2:M4:343:ILE:C	2:M4:345:ALA:N	2.71	0.45
12:v5:10:UNK:O	12:v5:13:UNK:N	2.49	0.45
2:M1:273:SER:O	2:M1:276:CYS:N	2.49	0.45
7:U1:55:UNK:O	7:U1:58:UNK:O	2.34	0.45
1:L2:29:MET:CA	1:L2:32:PHE:CB	2.86	0.45
2:M3:118:PHE:O	2:M3:121:LEU:N	2.50	0.45
1:L4:108:ILE:O	1:L4:111:PHE:N	2.49	0.45
2:M4:63:THR:O	2:M4:67:ILE:N	2.44	0.45
2:M4:225:ILE:CB	2:M4:228:SER:CB	2.95	0.45
1:L5:29:MET:CA	1:L5:32:PHE:CB	2.86	0.45
1:L6:47:ALA:C	1:L6:49:SER:N	2.71	0.45
1:L6:306:ASP:O	1:L6:307:ILE:C	2.60	0.45
1:L2:263:VAL:O	1:L2:264:ALA:C	2.60	0.45
1:L3:151:GLY:O	1:L3:155:VAL:CA	2.64	0.45
12:v3:19:UNK:O	12:v3:23:UNK:N	2.49	0.45
14:BC:1588:UNK:H	14:BF:547:UNK:HA	0.63	0.45
1:L4:246:MET:O	1:L4:250:THR:CA	2.65	0.45
2:M4:87:GLU:HA	2:M4:89:LEU:HA	1.97	0.45
12:v4:19:UNK:O	12:v4:23:UNK:N	2.49	0.45
1:L5:314:SER:O	1:L5:317:SER:N	2.49	0.45
1:L1:288:CYS:CB	1:L1:308:LYS:HA	2.47	0.45
2:M1:61:LEU:N	2:M1:63:THR:N	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:t1:31:UNK:O	10:t1:32:UNK:C	2.65	0.45
1:L2:288:CYS:CB	1:L2:308:LYS:HA	2.47	0.45
2:M2:27:SER:O	2:M2:28:THR:C	2.58	0.45
2:M2:30:HIS:O	2:M2:33:LEU:N	2.50	0.45
1:L3:108:ILE:O	1:L3:111:PHE:N	2.49	0.45
1:L4:288:CYS:CB	1:L4:308:LYS:HA	2.47	0.45
2:M4:54:LEU:HA	2:M4:55:LEU:HA	1.65	0.45
3:f4:20:UNK:O	3:f4:24:UNK:CB	2.64	0.45
3:f4:26:UNK:O	3:f4:29:UNK:N	2.50	0.45
14:BD:544:UNK:O	14:BE:1590:UNK:CB	2.64	0.45
14:BE:1625:UNK:C	14:BE:1626:UNK:O	2.65	0.45
1:L6:65:SER:CB	1:L6:66:GLY:C	2.83	0.45
1:L6:288:CYS:CB	1:L6:308:LYS:HA	2.47	0.45
7:U6:55:UNK:O	7:U6:58:UNK:O	2.34	0.45
11:u6:3:UNK:C	11:u6:5:UNK:N	2.79	0.45
3:f1:20:UNK:O	3:f1:24:UNK:CB	2.64	0.45
7:U3:55:UNK:O	7:U3:58:UNK:O	2.34	0.45
1:L4:60:MET:O	1:L4:81:THR:N	2.43	0.45
2:M4:114:GLU:CA	2:M4:177:LEU:CB	2.95	0.45
2:M6:114:GLU:CA	2:M6:177:LEU:CB	2.95	0.45
3:f6:26:UNK:O	3:f6:29:UNK:N	2.50	0.45
5:j6:14:UNK:O	5:j6:17:UNK:N	2.50	0.45
1:L1:95:MET:O	1:L1:98:THR:N	2.48	0.45
2:M2:61:LEU:N	2:M2:63:THR:N	2.65	0.45
2:M2:225:ILE:CB	2:M2:228:SER:CB	2.95	0.45
1:L3:246:MET:O	1:L3:250:THR:CA	2.65	0.45
2:M3:225:ILE:CB	2:M3:228:SER:CB	2.95	0.45
10:t3:9:UNK:O	10:t3:10:UNK:C	2.62	0.45
11:u3:3:UNK:C	11:u3:5:UNK:N	2.79	0.45
1:L4:263:VAL:O	1:L4:264:ALA:C	2.60	0.45
1:L4:306:ASP:O	1:L4:307:ILE:C	2.60	0.45
2:M4:327:PHE:O	2:M4:330:ALA:N	2.49	0.45
11:u4:3:UNK:C	11:u4:5:UNK:N	2.79	0.45
13:w4:3:UNK:O	13:w4:6:UNK:CB	2.65	0.45
1:L5:47:ALA:C	1:L5:49:SER:N	2.71	0.45
2:M5:87:GLU:HA	2:M5:89:LEU:HA	1.97	0.45
3:i5:27:UNK:O	3:i5:28:UNK:C	2.65	0.45
2:M6:287:ALA:O	2:M6:288:TYR:C	2.57	0.45
14:BF:1625:UNK:C	14:BF:1626:UNK:O	2.65	0.45
1:L1:246:MET:O	1:L1:250:THR:CA	2.65	0.45
2:M1:63:THR:O	2:M1:67:ILE:N	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M1:241:TYR:C	2:M1:243:MET:N	2.71	0.45
5:j1:14:UNK:O	5:j1:17:UNK:N	2.50	0.45
8:n1:5:UNK:O	8:n1:8:UNK:CA	2.64	0.45
1:L2:211:MET:HA	1:L2:214:PRO:CB	2.47	0.45
2:M2:23:ILE:C	2:M2:25:VAL:N	2.74	0.45
3:f2:26:UNK:O	3:f2:29:UNK:N	2.50	0.45
12:v2:4:UNK:O	12:v2:5:UNK:C	2.65	0.45
1:L3:82:LEU:N	1:L3:86:LEU:CB	2.73	0.45
2:M3:30:HIS:O	2:M3:33:LEU:N	2.50	0.45
13:w3:3:UNK:O	13:w3:6:UNK:CB	2.65	0.45
2:M4:23:ILE:C	2:M4:25:VAL:N	2.74	0.45
2:M4:38:SER:O	2:M4:41:LEU:N	2.49	0.45
7:U4:9:UNK:O	7:U4:12:UNK:N	2.50	0.45
10:t4:4:UNK:O	10:t4:7:UNK:N	2.49	0.45
14:BD:1625:UNK:C	14:BD:1626:UNK:O	2.65	0.45
1:L5:246:MET:O	1:L5:250:THR:CA	2.65	0.45
1:L5:306:ASP:O	1:L5:307:ILE:C	2.60	0.45
2:M5:30:HIS:O	2:M5:33:LEU:N	2.50	0.45
5:j5:14:UNK:O	5:j5:17:UNK:N	2.50	0.45
1:L6:94:SER:O	1:L6:95:MET:C	2.56	0.45
4:g6:9:UNK:O	4:g6:12:UNK:CB	2.64	0.45
3:f1:26:UNK:O	3:f1:29:UNK:N	2.50	0.44
1:L2:151:GLY:O	1:L2:155:VAL:CA	2.64	0.44
3:i2:22:UNK:O	3:i2:24:UNK:N	2.51	0.44
11:u2:3:UNK:C	11:u2:5:UNK:N	2.79	0.44
2:M4:61:LEU:N	2:M4:63:THR:N	2.65	0.44
2:M4:118:PHE:O	2:M4:121:LEU:N	2.50	0.44
4:g4:9:UNK:O	4:g4:12:UNK:CB	2.64	0.44
8:n4:5:UNK:O	8:n4:8:UNK:CA	2.64	0.44
14:BD:1614:UNK:C	14:BD:1617:UNK:CA	2.88	0.44
2:M5:54:LEU:HA	2:M5:55:LEU:HA	1.65	0.44
2:M5:61:LEU:N	2:M5:63:THR:N	2.65	0.44
2:M5:225:ILE:CB	2:M5:228:SER:CB	2.95	0.44
2:M6:225:ILE:CB	2:M6:228:SER:CB	2.95	0.44
12:v6:4:UNK:O	12:v6:5:UNK:C	2.65	0.44
13:w6:3:UNK:O	13:w6:6:UNK:CB	2.65	0.44
14:BF:1614:UNK:C	14:BF:1617:UNK:CA	2.88	0.44
2:M1:225:ILE:CB	2:M1:228:SER:CB	2.95	0.44
4:g1:9:UNK:O	4:g1:12:UNK:CB	2.64	0.44
13:w1:3:UNK:O	13:w1:6:UNK:CB	2.65	0.44
1:L2:60:MET:O	1:L2:81:THR:N	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:f2:20:UNK:O	3:f2:24:UNK:CB	2.64	0.44
1:L3:288:CYS:CB	1:L3:308:LYS:HA	2.47	0.44
1:L4:211:MET:HA	1:L4:214:PRO:CB	2.47	0.44
2:M4:88:ASN:HA	2:M4:89:LEU:HA	1.84	0.44
2:M4:341:THR:C	2:M4:342:MET:O	2.56	0.44
2:M5:114:GLU:CA	2:M5:177:LEU:CB	2.95	0.44
2:M5:384:SER:C	2:M5:386:PHE:N	2.72	0.44
8:n5:5:UNK:O	8:n5:8:UNK:CA	2.64	0.44
1:L6:246:MET:O	1:L6:250:THR:CA	2.65	0.44
1:L1:155:VAL:O	1:L1:239:HIS:CB	2.65	0.44
1:L1:263:VAL:O	1:L1:264:ALA:C	2.60	0.44
2:M1:62:SER:N	2:M1:63:THR:CA	2.77	0.44
1:L2:246:MET:O	1:L2:250:THR:CA	2.65	0.44
2:M2:114:GLU:CA	2:M2:177:LEU:CB	2.95	0.44
13:w2:3:UNK:O	13:w2:6:UNK:CB	2.65	0.44
3:f3:26:UNK:O	3:f3:29:UNK:N	2.50	0.44
5:j3:14:UNK:O	5:j3:17:UNK:N	2.50	0.44
8:n3:5:UNK:O	8:n3:8:UNK:CA	2.65	0.44
12:v3:4:UNK:O	12:v3:5:UNK:C	2.65	0.44
2:M4:91:ARG:O	2:M4:94:LEU:CB	2.66	0.44
3:i4:22:UNK:O	3:i4:24:UNK:N	2.51	0.44
1:L5:263:VAL:O	1:L5:264:ALA:C	2.60	0.44
2:M5:118:PHE:O	2:M5:121:LEU:N	2.50	0.44
2:M5:348:LEU:CA	2:M5:351:LEU:CB	2.85	0.44
3:f5:26:UNK:O	3:f5:29:UNK:N	2.50	0.44
3:i5:22:UNK:O	3:i5:24:UNK:N	2.50	0.44
2:M6:61:LEU:N	2:M6:63:THR:N	2.65	0.44
2:M6:91:ARG:O	2:M6:94:LEU:CB	2.66	0.44
3:i1:22:UNK:O	3:i1:24:UNK:N	2.51	0.44
7:U1:9:UNK:O	7:U1:12:UNK:N	2.50	0.44
10:t1:6:UNK:C	10:t1:8:UNK:N	2.79	0.44
12:v1:4:UNK:O	12:v1:5:UNK:C	2.65	0.44
1:L3:55:SER:N	1:L3:56:MET:C	2.71	0.44
2:M3:23:ILE:C	2:M3:25:VAL:N	2.74	0.44
2:M3:378:GLU:C	2:M3:380:PHE:N	2.72	0.44
1:L4:82:LEU:N	1:L4:86:LEU:CB	2.73	0.44
1:L4:155:VAL:O	1:L4:239:HIS:CB	2.65	0.44
2:M4:432:ARG:O	2:M4:435:ALA:N	2.49	0.44
5:j4:14:UNK:O	5:j4:17:UNK:N	2.50	0.44
1:L6:211:MET:HA	1:L6:214:PRO:CB	2.48	0.44
3:h1:12:UNK:O	3:h1:15:UNK:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i1:25:UNK:O	3:i1:28:UNK:CB	2.66	0.44
10:t1:2:UNK:O	10:t1:5:UNK:CA	2.65	0.44
1:L2:379:MET:O	1:L2:388:VAL:CB	2.66	0.44
1:L3:155:VAL:O	1:L3:239:HIS:CB	2.65	0.44
1:L3:211:MET:HA	1:L3:214:PRO:CB	2.48	0.44
2:M3:91:ARG:O	2:M3:94:LEU:CB	2.66	0.44
2:M3:114:GLU:CA	2:M3:177:LEU:CB	2.95	0.44
3:i4:25:UNK:O	3:i4:28:UNK:CB	2.66	0.44
1:L5:31:SER:O	1:L5:35:TYR:N	2.41	0.44
1:L5:108:ILE:O	1:L5:111:PHE:N	2.49	0.44
1:L5:211:MET:HA	1:L5:214:PRO:CB	2.48	0.44
7:U5:55:UNK:O	7:U5:58:UNK:O	2.34	0.44
1:L6:263:VAL:O	1:L6:264:ALA:C	2.60	0.44
3:i6:25:UNK:O	3:i6:28:UNK:CB	2.66	0.44
3:i6:27:UNK:C	3:i6:28:UNK:O	2.56	0.44
1:L1:47:ALA:C	1:L1:49:SER:N	2.71	0.44
1:L1:151:GLY:O	1:L1:155:VAL:CA	2.64	0.44
1:L1:379:MET:O	1:L1:388:VAL:CB	2.66	0.44
2:M1:91:ARG:O	2:M1:94:LEU:CB	2.66	0.44
1:L2:155:VAL:O	1:L2:239:HIS:CB	2.65	0.44
2:M2:91:ARG:O	2:M2:94:LEU:CB	2.66	0.44
2:M2:287:ALA:O	2:M2:288:TYR:C	2.57	0.44
8:n2:5:UNK:O	8:n2:8:UNK:CA	2.64	0.44
14:BB:1625:UNK:C	14:BB:1626:UNK:O	2.65	0.44
3:i3:22:UNK:O	3:i3:24:UNK:N	2.50	0.44
7:U3:9:UNK:O	7:U3:12:UNK:N	2.50	0.44
2:M5:91:ARG:O	2:M5:94:LEU:CB	2.66	0.44
1:L6:379:MET:O	1:L6:388:VAL:CB	2.66	0.44
2:M6:255:ASP:O	2:M6:258:ALA:CB	2.63	0.44
8:n6:5:UNK:O	8:n6:8:UNK:CA	2.64	0.44
1:L1:32:PHE:HA	1:L1:35:TYR:CB	2.48	0.44
1:L1:61:MET:CA	1:L1:80:GLN:CB	2.93	0.44
1:L1:211:MET:HA	1:L1:214:PRO:CB	2.47	0.44
5:p1:8:UNK:O	5:p1:9:UNK:C	2.64	0.44
1:L2:82:LEU:N	1:L2:86:LEU:CB	2.73	0.44
2:M2:118:PHE:O	2:M2:121:LEU:N	2.50	0.44
3:i2:27:UNK:O	3:i2:28:UNK:C	2.65	0.44
3:i2:27:UNK:C	3:i2:28:UNK:O	2.56	0.44
2:M3:140:THR:C	2:M3:142:ARG:N	2.74	0.44
14:BC:1625:UNK:C	14:BC:1626:UNK:O	2.65	0.44
2:M4:30:HIS:O	2:M4:33:LEU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M4:275:ILE:C	2:M4:278:ARG:CB	2.91	0.44
10:t4:2:UNK:O	10:t4:5:UNK:CA	2.65	0.44
2:M6:30:HIS:O	2:M6:33:LEU:N	2.50	0.44
2:M1:23:ILE:C	2:M1:25:VAL:N	2.74	0.44
14:BA:1625:UNK:C	14:BA:1626:UNK:O	2.65	0.44
2:M2:22:MET:HA	2:M2:23:ILE:HA	1.73	0.44
2:M2:38:SER:O	2:M2:41:LEU:N	2.49	0.44
1:L3:379:MET:O	1:L3:388:VAL:CB	2.66	0.44
1:L4:379:MET:O	1:L4:388:VAL:CB	2.66	0.44
3:h4:12:UNK:O	3:h4:15:UNK:N	2.51	0.44
1:L5:52:PHE:C	1:L5:54:THR:N	2.73	0.44
1:L5:65:SER:CB	1:L5:66:GLY:C	2.83	0.44
2:M5:341:THR:C	2:M5:342:MET:O	2.56	0.44
2:M5:432:ARG:O	2:M5:435:ALA:N	2.49	0.44
3:i5:25:UNK:O	3:i5:28:UNK:CB	2.66	0.44
11:u5:3:UNK:C	11:u5:5:UNK:N	2.79	0.44
3:i6:22:UNK:O	3:i6:24:UNK:N	2.50	0.44
1:L2:65:SER:CB	1:L2:66:GLY:C	2.83	0.44
2:M3:61:LEU:N	2:M3:63:THR:N	2.65	0.44
2:M3:191:SER:CB	2:M3:192:ASN:CA	2.92	0.44
2:M3:255:ASP:O	2:M3:258:ALA:CB	2.63	0.44
1:L4:32:PHE:HA	1:L4:35:TYR:CB	2.48	0.44
1:L4:203:THR:HA	1:L4:204:TRP:HA	1.87	0.44
1:L5:155:VAL:O	1:L5:239:HIS:CB	2.65	0.44
3:h5:10:UNK:C	3:h5:12:UNK:N	2.77	0.44
13:w5:3:UNK:O	13:w5:6:UNK:CB	2.65	0.44
1:L1:181:LEU:C	1:L1:183:ASN:N	2.71	0.43
2:M1:275:ILE:C	2:M1:278:ARG:CB	2.91	0.43
1:L2:52:PHE:C	1:L2:54:THR:N	2.73	0.43
3:h3:12:UNK:O	3:h3:15:UNK:N	2.51	0.43
3:i3:25:UNK:O	3:i3:28:UNK:CB	2.66	0.43
1:L4:250:THR:O	1:L4:254:ALA:CB	2.66	0.43
2:M4:14:LEU:O	2:M4:15:THR:C	2.60	0.43
1:L5:297:THR:HA	1:L5:355:ILE:CA	2.48	0.43
2:M5:255:ASP:O	2:M5:258:ALA:CB	2.63	0.43
3:h5:12:UNK:O	3:h5:15:UNK:N	2.51	0.43
2:M6:275:ILE:C	2:M6:278:ARG:CB	2.91	0.43
2:M6:432:ARG:O	2:M6:435:ALA:N	2.49	0.43
5:p6:8:UNK:O	5:p6:9:UNK:C	2.64	0.43
2:M1:30:HIS:O	2:M1:33:LEU:N	2.50	0.43
2:M1:88:ASN:HA	2:M1:89:LEU:HA	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M1:114:GLU:CA	2:M1:177:LEU:CB	2.95	0.43
3:h1:10:UNK:C	3:h1:12:UNK:N	2.77	0.43
1:L2:32:PHE:HA	1:L2:35:TYR:CB	2.48	0.43
2:M2:384:SER:C	2:M2:386:PHE:N	2.72	0.43
5:j2:14:UNK:O	5:j2:17:UNK:N	2.50	0.43
1:L4:314:SER:O	1:L4:317:SER:N	2.49	0.43
2:M4:378:GLU:C	2:M4:380:PHE:N	2.72	0.43
10:t4:31:UNK:O	10:t4:32:UNK:C	2.65	0.43
5:p5:8:UNK:O	5:p5:9:UNK:C	2.64	0.43
5:p5:11:UNK:C	5:p5:13:UNK:N	2.76	0.43
1:L6:155:VAL:O	1:L6:239:HIS:CB	2.65	0.43
7:U6:9:UNK:O	7:U6:12:UNK:N	2.51	0.43
2:M1:448:THR:O	2:M1:449:LEU:C	2.61	0.43
2:M2:140:THR:C	2:M2:142:ARG:N	2.74	0.43
3:i2:25:UNK:O	3:i2:28:UNK:CB	2.66	0.43
7:U2:9:UNK:O	7:U2:12:UNK:N	2.51	0.43
1:L3:128:TYR:O	1:L3:129:LEU:C	2.61	0.43
2:M3:275:ILE:C	2:M3:278:ARG:CB	2.91	0.43
5:p3:11:UNK:C	5:p3:13:UNK:N	2.76	0.43
1:L5:32:PHE:HA	1:L5:35:TYR:CB	2.48	0.43
1:L5:288:CYS:CB	1:L5:308:LYS:HA	2.47	0.43
7:U5:9:UNK:O	7:U5:12:UNK:N	2.51	0.43
5:p6:11:UNK:C	5:p6:13:UNK:N	2.76	0.43
2:M1:54:LEU:HA	2:M1:55:LEU:HA	1.65	0.43
2:M2:275:ILE:C	2:M2:278:ARG:CB	2.91	0.43
2:M2:392:THR:C	2:M2:394:ILE:N	2.68	0.43
3:h2:12:UNK:O	3:h2:15:UNK:N	2.51	0.43
5:p2:11:UNK:C	5:p2:13:UNK:N	2.76	0.43
2:M3:392:THR:C	2:M3:394:ILE:N	2.68	0.43
10:t4:9:UNK:O	10:t4:10:UNK:C	2.62	0.43
10:t5:31:UNK:O	10:t5:32:UNK:C	2.65	0.43
1:L6:32:PHE:HA	1:L6:35:TYR:CB	2.48	0.43
3:h6:12:UNK:O	3:h6:15:UNK:N	2.51	0.43
11:u1:3:UNK:C	11:u1:5:UNK:N	2.79	0.43
1:L2:306:ASP:O	1:L2:307:ILE:C	2.60	0.43
2:M3:52:PHE:HA	2:M3:53:SER:HA	1.71	0.43
2:M3:127:VAL:O	2:M3:128:PRO:C	2.61	0.43
2:M3:448:THR:O	2:M3:449:LEU:C	2.61	0.43
1:L4:108:ILE:O	1:L4:111:PHE:CB	2.67	0.43
10:t5:2:UNK:O	10:t5:5:UNK:CA	2.65	0.43
1:L6:108:ILE:O	1:L6:111:PHE:CB	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M6:14:LEU:O	2:M6:15:THR:C	2.60	0.43
1:L1:60:MET:O	1:L1:81:THR:N	2.43	0.43
2:M2:49:SER:CA	2:M2:50:LEU:CB	2.84	0.43
2:M3:133:ILE:C	2:M3:224:PRO:CB	2.92	0.43
1:L4:163:ILE:C	1:L4:165:TRP:N	2.69	0.43
7:U4:35:UNK:CB	7:U4:39:UNK:N	2.82	0.43
1:L5:379:MET:O	1:L5:388:VAL:CB	2.66	0.43
5:s5:21:UNK:O	5:s5:22:UNK:C	2.61	0.43
1:L6:250:THR:O	1:L6:254:ALA:CB	2.66	0.43
2:M6:133:ILE:C	2:M6:224:PRO:CB	2.92	0.43
1:L1:31:SER:O	1:L1:35:TYR:N	2.41	0.43
2:M1:127:VAL:O	2:M1:128:PRO:C	2.61	0.43
1:L2:297:THR:HA	1:L2:355:ILE:CA	2.48	0.43
2:M2:55:LEU:HA	2:M2:56:PHE:HA	1.82	0.43
10:t3:31:UNK:O	10:t3:32:UNK:C	2.65	0.43
2:M5:378:GLU:C	2:M5:380:PHE:N	2.72	0.43
7:U5:35:UNK:CB	7:U5:39:UNK:N	2.82	0.43
1:L6:63:ILE:CB	1:L6:78:THR:CB	2.97	0.43
2:M6:42:MET:C	2:M6:44:GLN:N	2.76	0.43
1:L2:108:ILE:O	1:L2:111:PHE:CB	2.67	0.43
2:M2:42:MET:C	2:M2:44:GLN:N	2.76	0.43
1:L4:431:MET:O	1:L4:432:THR:CB	2.67	0.43
14:BD:1609:UNK:CB	14:BD:1642:UNK:C	2.97	0.43
2:M5:133:ILE:C	2:M5:224:PRO:CB	2.92	0.43
1:L1:309:LYS:O	1:L1:313:PHE:N	2.50	0.43
2:M1:133:ILE:C	2:M1:224:PRO:CB	2.92	0.43
10:t1:31:UNK:O	10:t1:34:UNK:N	2.52	0.43
1:L2:309:LYS:O	1:L2:313:PHE:N	2.50	0.43
2:M2:448:THR:O	2:M2:449:LEU:C	2.61	0.43
7:U2:35:UNK:CB	7:U2:39:UNK:N	2.82	0.43
1:L3:32:PHE:HA	1:L3:35:TYR:CB	2.48	0.43
2:M3:441:ILE:O	2:M3:445:LEU:N	2.32	0.43
10:t3:6:UNK:C	10:t3:8:UNK:N	2.79	0.43
1:L4:82:LEU:O	1:L4:86:LEU:N	2.52	0.43
1:L4:128:TYR:C	1:L4:131:LEU:H	2.27	0.43
10:t4:31:UNK:O	10:t4:34:UNK:N	2.52	0.43
1:L5:34:THR:O	1:L5:37:PRO:N	2.52	0.43
2:M5:275:ILE:C	2:M5:278:ARG:CB	2.91	0.43
1:L6:34:THR:O	1:L6:37:PRO:N	2.52	0.43
1:L2:82:LEU:O	1:L2:86:LEU:N	2.52	0.43
1:L2:128:TYR:C	1:L2:131:LEU:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M2:14:LEU:O	2:M2:15:THR:C	2.60	0.43
1:L3:250:THR:O	1:L3:254:ALA:CB	2.66	0.43
5:p3:8:UNK:O	5:p3:9:UNK:C	2.64	0.43
2:M1:52:PHE:HA	2:M1:53:SER:HA	1.71	0.42
14:BA:1609:UNK:CB	14:BA:1642:UNK:C	2.97	0.42
1:L2:239:HIS:C	1:L2:240:PRO:O	2.60	0.42
1:L3:203:THR:HA	1:L3:204:TRP:HA	1.87	0.42
2:M3:14:LEU:O	2:M3:15:THR:C	2.60	0.42
2:M3:22:MET:CA	2:M3:23:ILE:CB	2.97	0.42
7:U3:35:UNK:CB	7:U3:39:UNK:N	2.82	0.42
1:L4:128:TYR:O	1:L4:129:LEU:C	2.61	0.42
2:M4:22:MET:CA	2:M4:23:ILE:CB	2.97	0.42
1:L5:108:ILE:O	1:L5:111:PHE:CB	2.67	0.42
1:L5:128:TYR:C	1:L5:131:LEU:H	2.27	0.42
2:M5:164:LEU:O	2:M5:167:ILE:N	2.53	0.42
3:h6:9:UNK:O	3:h6:12:UNK:CA	2.67	0.42
10:t6:2:UNK:O	10:t6:5:UNK:CA	2.65	0.42
10:t6:31:UNK:O	10:t6:32:UNK:C	2.65	0.42
1:L1:34:THR:O	1:L1:37:PRO:N	2.52	0.42
1:L1:140:VAL:O	1:L1:143:ASN:N	2.52	0.42
1:L1:250:THR:O	1:L1:254:ALA:CB	2.66	0.42
2:M1:14:LEU:O	2:M1:15:THR:C	2.60	0.42
1:L2:420:ASN:O	1:L2:423:TYR:N	2.52	0.42
14:BB:1609:UNK:CB	14:BB:1642:UNK:C	2.97	0.42
2:M3:164:LEU:O	2:M3:167:ILE:N	2.53	0.42
2:M4:127:VAL:O	2:M4:128:PRO:C	2.61	0.42
10:t4:6:UNK:C	10:t4:8:UNK:N	2.79	0.42
12:v4:4:UNK:O	12:v4:5:UNK:C	2.65	0.42
10:t5:31:UNK:O	10:t5:34:UNK:N	2.52	0.42
1:L6:140:VAL:O	1:L6:143:ASN:N	2.52	0.42
2:M6:448:THR:O	2:M6:449:LEU:C	2.61	0.42
10:t6:31:UNK:O	10:t6:34:UNK:N	2.52	0.42
1:L1:128:TYR:O	1:L1:129:LEU:C	2.61	0.42
1:L1:306:ASP:O	1:L1:307:ILE:C	2.60	0.42
1:L2:431:MET:O	1:L2:432:THR:CB	2.67	0.42
2:M2:127:VAL:O	2:M2:128:PRO:C	2.61	0.42
1:L3:60:MET:O	1:L3:81:THR:N	2.43	0.42
1:L3:108:ILE:O	1:L3:111:PHE:CB	2.67	0.42
1:L4:420:ASN:O	1:L4:423:TYR:N	2.52	0.42
2:M4:133:ILE:C	2:M4:224:PRO:CB	2.92	0.42
1:L5:82:LEU:O	1:L5:86:LEU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M5:168:GLN:CB	2:M5:174:LEU:CA	2.97	0.42
1:L6:82:LEU:N	1:L6:86:LEU:CB	2.73	0.42
1:L6:109:MET:O	1:L6:110:GLU:CB	2.68	0.42
1:L6:128:TYR:C	1:L6:131:LEU:H	2.27	0.42
2:M6:54:LEU:HA	2:M6:55:LEU:HA	1.65	0.42
2:M6:348:LEU:CA	2:M6:351:LEU:CB	2.85	0.42
14:BF:1609:UNK:CB	14:BF:1642:UNK:C	2.97	0.42
2:M1:168:GLN:CB	2:M1:174:LEU:CA	2.97	0.42
1:L2:109:MET:O	1:L2:110:GLU:CB	2.67	0.42
1:L2:321:LEU:C	1:L2:324:VAL:N	2.64	0.42
1:L3:34:THR:O	1:L3:37:PRO:N	2.52	0.42
1:L4:31:SER:O	1:L4:35:TYR:N	2.41	0.42
1:L4:52:PHE:C	1:L4:54:THR:N	2.73	0.42
1:L4:63:ILE:CB	1:L4:78:THR:CB	2.97	0.42
1:L5:140:VAL:O	1:L5:143:ASN:N	2.52	0.42
10:t5:22:UNK:HA	10:t5:25:UNK:CB	2.50	0.42
14:BE:1609:UNK:CB	14:BE:1642:UNK:C	2.97	0.42
14:BE:1614:UNK:C	14:BE:1617:UNK:CA	2.88	0.42
1:L6:369:ILE:O	1:L6:372:MET:N	2.53	0.42
1:L1:431:MET:O	1:L1:432:THR:CB	2.67	0.42
7:U1:11:UNK:O	7:U1:12:UNK:C	2.67	0.42
1:L2:369:ILE:O	1:L2:372:MET:N	2.53	0.42
3:h2:10:UNK:C	3:h2:12:UNK:N	2.77	0.42
10:t2:22:UNK:HA	10:t2:25:UNK:CB	2.50	0.42
1:L3:82:LEU:O	1:L3:86:LEU:N	2.52	0.42
1:L3:369:ILE:O	1:L3:372:MET:N	2.53	0.42
2:M3:54:LEU:HA	2:M3:55:LEU:HA	1.65	0.42
2:M3:55:LEU:HA	2:M3:56:PHE:HA	1.82	0.42
2:M3:106:LEU:O	2:M3:109:THR:N	2.45	0.42
2:M4:52:PHE:HA	2:M4:53:SER:HA	1.71	0.42
5:s4:26:UNK:O	5:s4:28:UNK:N	2.52	0.42
1:L5:109:MET:O	1:L5:110:GLU:CB	2.67	0.42
10:t5:6:UNK:C	10:t5:8:UNK:N	2.79	0.42
2:M1:22:MET:CA	2:M1:23:ILE:CB	2.97	0.42
2:M2:168:GLN:CB	2:M2:174:LEU:CA	2.97	0.42
7:U2:11:UNK:O	7:U2:12:UNK:C	2.67	0.42
8:n2:45:UNK:O	8:n2:49:UNK:CB	2.68	0.42
10:t2:31:UNK:O	10:t2:34:UNK:N	2.52	0.42
1:L3:63:ILE:CB	1:L3:78:THR:CB	2.97	0.42
1:L3:109:MET:O	1:L3:110:GLU:CB	2.67	0.42
1:L3:239:HIS:C	1:L3:240:PRO:O	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L3:420:ASN:O	1:L3:423:TYR:N	2.53	0.42
10:t3:22:UNK:HA	10:t3:25:UNK:CB	2.50	0.42
1:L4:369:ILE:O	1:L4:372:MET:N	2.53	0.42
2:M5:111:THR:O	2:M5:112:ALA:CB	2.68	0.42
2:M5:347:GLY:C	2:M5:351:LEU:CB	2.92	0.42
7:U6:35:UNK:CB	7:U6:39:UNK:N	2.82	0.42
1:L1:108:ILE:O	1:L1:111:PHE:CB	2.67	0.42
2:M1:369:LEU:O	2:M1:372:THR:CB	2.68	0.42
7:U1:35:UNK:CB	7:U1:39:UNK:N	2.82	0.42
1:L2:140:VAL:O	1:L2:143:ASN:N	2.52	0.42
1:L2:169:ARG:O	1:L2:173:ASN:N	2.49	0.42
1:L2:250:THR:O	1:L2:254:ALA:CB	2.66	0.42
1:L2:316:SER:O	1:L2:317:SER:C	2.63	0.42
2:M2:133:ILE:C	2:M2:224:PRO:CB	2.92	0.42
1:L3:128:TYR:C	1:L3:131:LEU:H	2.27	0.42
2:M3:168:GLN:HA	2:M3:174:LEU:HA	2.02	0.42
2:M3:369:LEU:O	2:M3:372:THR:CB	2.68	0.42
1:L4:109:MET:O	1:L4:110:GLU:CB	2.67	0.42
10:t4:22:UNK:HA	10:t4:25:UNK:CB	2.50	0.42
3:h5:9:UNK:O	3:h5:12:UNK:CA	2.67	0.42
1:L6:314:SER:O	1:L6:317:SER:N	2.49	0.42
2:M6:22:MET:CA	2:M6:23:ILE:CB	2.97	0.42
8:n6:45:UNK:O	8:n6:49:UNK:CB	2.68	0.42
1:L1:477:LEU:C	1:L1:479:ILE:H	2.28	0.42
5:s1:26:UNK:O	5:s1:28:UNK:N	2.52	0.42
11:u1:4:UNK:C	11:u1:6:UNK:N	2.82	0.42
1:L2:63:ILE:CB	1:L2:78:THR:CB	2.97	0.42
2:M2:168:GLN:HA	2:M2:174:LEU:HA	2.02	0.42
2:M2:369:LEU:O	2:M2:372:THR:CB	2.68	0.42
2:M3:178:MET:O	2:M3:179:LEU:C	2.63	0.42
5:s3:26:UNK:O	5:s3:28:UNK:N	2.52	0.42
2:M4:140:THR:C	2:M4:142:ARG:N	2.74	0.42
8:n4:45:UNK:O	8:n4:49:UNK:CB	2.68	0.42
1:L5:63:ILE:CB	1:L5:78:THR:CB	2.97	0.42
1:L5:207:GLN:HA	1:L5:208:GLN:C	2.45	0.42
2:M5:55:LEU:HA	2:M5:56:PHE:HA	1.82	0.42
12:v5:4:UNK:O	12:v5:5:UNK:C	2.65	0.42
1:L6:82:LEU:O	1:L6:86:LEU:N	2.52	0.42
1:L6:420:ASN:O	1:L6:423:TYR:N	2.52	0.42
2:M1:50:LEU:O	2:M1:51:ASN:CB	2.68	0.42
2:M3:113:MET:CA	2:M3:114:GLU:CB	2.89	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:t3:3:UNK:O	10:t3:4:UNK:C	2.68	0.42
10:t3:31:UNK:O	10:t3:34:UNK:N	2.52	0.42
14:BC:1609:UNK:CB	14:BC:1642:UNK:C	2.97	0.42
2:M4:106:LEU:O	2:M4:109:THR:N	2.45	0.42
2:M4:111:THR:O	2:M4:112:ALA:CB	2.68	0.42
1:L5:309:LYS:O	1:L5:313:PHE:N	2.50	0.42
1:L6:207:GLN:HA	1:L6:208:GLN:C	2.45	0.42
1:L1:82:LEU:N	1:L1:86:LEU:CB	2.73	0.42
1:L1:207:GLN:HA	1:L1:208:GLN:C	2.45	0.42
8:n1:43:UNK:O	8:n1:45:UNK:N	2.53	0.42
1:L2:34:THR:O	1:L2:37:PRO:N	2.52	0.42
1:L2:207:GLN:HA	1:L2:208:GLN:C	2.45	0.42
1:L4:34:THR:O	1:L4:37:PRO:N	2.52	0.42
2:M4:347:GLY:C	2:M4:351:LEU:CB	2.92	0.42
1:L5:420:ASN:O	1:L5:423:TYR:N	2.52	0.42
2:M5:369:LEU:O	2:M5:372:THR:CB	2.68	0.42
1:L6:431:MET:O	1:L6:432:THR:CB	2.67	0.42
10:t6:22:UNK:HA	10:t6:25:UNK:CB	2.50	0.42
1:L1:63:ILE:CB	1:L1:78:THR:CB	2.97	0.41
1:L1:128:TYR:C	1:L1:131:LEU:H	2.27	0.41
2:M1:164:LEU:O	2:M1:167:ILE:N	2.53	0.41
2:M2:54:LEU:HA	2:M2:55:LEU:HA	1.65	0.41
2:M2:111:THR:O	2:M2:112:ALA:CB	2.68	0.41
2:M2:433:GLU:O	2:M2:434:ASN:C	2.62	0.41
3:i2:28:UNK:O	3:i2:29:UNK:CB	2.68	0.41
2:M3:168:GLN:CB	2:M3:174:LEU:CA	2.97	0.41
8:n3:45:UNK:O	8:n3:49:UNK:CB	2.68	0.41
2:M4:164:LEU:O	2:M4:167:ILE:N	2.53	0.41
2:M4:255:ASP:O	2:M4:258:ALA:CB	2.63	0.41
2:M4:369:LEU:O	2:M4:372:THR:CB	2.68	0.41
1:L5:431:MET:O	1:L5:432:THR:CB	2.67	0.41
1:L6:60:MET:O	1:L6:81:THR:N	2.43	0.41
2:M6:127:VAL:O	2:M6:128:PRO:C	2.61	0.41
2:M6:164:LEU:O	2:M6:167:ILE:N	2.52	0.41
11:u6:4:UNK:C	11:u6:6:UNK:N	2.82	0.41
1:L1:52:PHE:C	1:L1:54:THR:N	2.73	0.41
1:L1:82:LEU:O	1:L1:86:LEU:N	2.52	0.41
1:L1:109:MET:O	1:L1:110:GLU:CB	2.67	0.41
1:L1:369:ILE:O	1:L1:372:MET:N	2.53	0.41
8:n1:45:UNK:O	8:n1:49:UNK:CB	2.68	0.41
1:L2:203:THR:HA	1:L2:204:TRP:HA	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M2:50:LEU:O	2:M2:51:ASN:CB	2.68	0.41
10:t2:2:UNK:O	10:t2:5:UNK:CA	2.65	0.41
1:L4:140:VAL:O	1:L4:143:ASN:N	2.53	0.41
1:L4:477:LEU:C	1:L4:479:ILE:H	2.28	0.41
2:M4:168:GLN:CB	2:M4:174:LEU:CA	2.97	0.41
1:L5:316:SER:O	1:L5:317:SER:C	2.63	0.41
2:M5:42:MET:C	2:M5:44:GLN:H	2.29	0.41
2:M5:139:GLN:CA	2:M5:140:THR:CB	2.98	0.41
2:M5:168:GLN:HA	2:M5:174:LEU:HA	2.02	0.41
8:n5:45:UNK:O	8:n5:49:UNK:CB	2.68	0.41
1:L6:477:LEU:C	1:L6:479:ILE:H	2.28	0.41
1:L1:169:ARG:O	1:L1:173:ASN:N	2.49	0.41
2:M1:275:ILE:HA	2:M1:278:ARG:CB	2.51	0.41
1:L2:182:TYR:O	1:L2:185:ILE:N	2.54	0.41
1:L3:431:MET:O	1:L3:432:THR:CB	2.67	0.41
2:M4:275:ILE:HA	2:M4:278:ARG:CB	2.51	0.41
6:l4:23:UNK:O	6:l4:24:UNK:C	2.69	0.41
2:M5:22:MET:CA	2:M5:23:ILE:CB	2.97	0.41
11:u5:4:UNK:C	11:u5:6:UNK:N	2.82	0.41
1:L1:182:TYR:O	1:L1:185:ILE:N	2.54	0.41
1:L1:316:SER:O	1:L1:317:SER:C	2.63	0.41
2:M1:255:ASP:O	2:M1:258:ALA:CB	2.63	0.41
8:n1:42:UNK:O	8:n1:43:UNK:CB	2.69	0.41
10:t2:6:UNK:C	10:t2:8:UNK:N	2.79	0.41
1:L3:140:VAL:O	1:L3:143:ASN:N	2.52	0.41
3:i3:28:UNK:O	3:i3:29:UNK:CB	2.68	0.41
2:M5:50:LEU:O	2:M5:51:ASN:CB	2.68	0.41
2:M5:113:MET:CA	2:M5:114:GLU:CB	2.89	0.41
6:l5:23:UNK:O	6:l5:24:UNK:C	2.69	0.41
5:s5:13:UNK:O	5:s5:17:UNK:N	2.54	0.41
1:L6:128:TYR:O	1:L6:129:LEU:C	2.61	0.41
2:M6:369:LEU:O	2:M6:372:THR:CB	2.68	0.41
3:i6:28:UNK:O	3:i6:29:UNK:CB	2.68	0.41
1:L2:314:SER:O	1:L2:317:SER:N	2.49	0.41
2:M2:164:LEU:O	2:M2:167:ILE:N	2.52	0.41
5:s2:13:UNK:O	5:s2:17:UNK:N	2.54	0.41
5:s2:26:UNK:O	5:s2:28:UNK:N	2.52	0.41
1:L3:31:SER:O	1:L3:35:TYR:N	2.41	0.41
2:M3:88:ASN:HA	2:M3:89:LEU:HA	1.84	0.41
1:L4:207:GLN:HA	1:L4:208:GLN:C	2.45	0.41
1:L4:418:ALA:O	1:L4:421:THR:CB	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:i4:22:UNK:O	3:i4:25:UNK:CB	2.69	0.41
8:n4:43:UNK:O	8:n4:45:UNK:N	2.53	0.41
10:t4:3:UNK:O	10:t4:4:UNK:C	2.68	0.41
1:L5:184:ARG:O	1:L5:188:ILE:N	2.54	0.41
1:L5:203:THR:HA	1:L5:204:TRP:HA	1.88	0.41
1:L5:239:HIS:C	1:L5:240:PRO:O	2.60	0.41
1:L5:369:ILE:O	1:L5:372:MET:N	2.53	0.41
3:i5:22:UNK:O	3:i5:25:UNK:CB	2.69	0.41
1:L6:418:ALA:O	1:L6:421:THR:CB	2.69	0.41
2:M6:88:ASN:HA	2:M6:89:LEU:HA	1.84	0.41
2:M6:111:THR:O	2:M6:112:ALA:CB	2.68	0.41
2:M6:168:GLN:CB	2:M6:174:LEU:CA	2.97	0.41
5:s6:13:UNK:O	5:s6:17:UNK:N	2.54	0.41
1:L1:420:ASN:O	1:L1:423:TYR:N	2.52	0.41
2:M1:111:THR:O	2:M1:112:ALA:CB	2.68	0.41
2:M1:168:GLN:HA	2:M1:174:LEU:HA	2.02	0.41
10:t1:22:UNK:HA	10:t1:25:UNK:CB	2.50	0.41
2:M2:22:MET:CA	2:M2:23:ILE:CB	2.97	0.41
2:M2:115:LEU:O	2:M2:116:ILE:CB	2.69	0.41
2:M4:50:LEU:O	2:M4:51:ASN:CB	2.68	0.41
8:n5:43:UNK:O	8:n5:45:UNK:N	2.53	0.41
2:M6:42:MET:C	2:M6:44:GLN:H	2.29	0.41
2:M6:50:LEU:O	2:M6:51:ASN:CB	2.68	0.41
2:M6:140:THR:C	2:M6:142:ARG:N	2.74	0.41
3:h1:9:UNK:O	3:h1:12:UNK:CA	2.67	0.41
11:u1:5:UNK:O	11:u1:8:UNK:CB	2.69	0.41
1:L2:47:ALA:C	1:L2:49:SER:N	2.71	0.41
3:i2:22:UNK:O	3:i2:25:UNK:CB	2.69	0.41
1:L3:263:VAL:O	1:L3:264:ALA:C	2.60	0.41
1:L3:418:ALA:O	1:L3:421:THR:CB	2.69	0.41
3:i3:22:UNK:O	3:i3:25:UNK:CB	2.69	0.41
1:L4:182:TYR:O	1:L4:185:ILE:N	2.54	0.41
1:L5:60:MET:O	1:L5:81:THR:N	2.43	0.41
2:M6:133:ILE:O	2:M6:224:PRO:CB	2.69	0.41
2:M6:275:ILE:HA	2:M6:278:ARG:CB	2.51	0.41
3:i1:22:UNK:O	3:i1:25:UNK:CB	2.69	0.41
1:L2:191:ILE:O	1:L2:192:LEU:CB	2.69	0.41
2:M2:139:GLN:CA	2:M2:140:THR:CB	2.98	0.41
8:n2:42:UNK:O	8:n2:43:UNK:CB	2.69	0.41
10:t2:31:UNK:O	10:t2:32:UNK:C	2.65	0.41
1:L3:207:GLN:HA	1:L3:208:GLN:C	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L3:306:ASP:O	1:L3:307:ILE:C	2.60	0.41
1:L3:477:LEU:C	1:L3:479:ILE:H	2.28	0.41
2:M3:50:LEU:O	2:M3:51:ASN:CB	2.68	0.41
2:M3:186:VAL:O	2:M3:253:MET:CB	2.69	0.41
1:L4:184:ARG:O	1:L4:188:ILE:N	2.54	0.41
2:M4:42:MET:C	2:M4:44:GLN:H	2.29	0.41
3:i4:28:UNK:O	3:i4:29:UNK:CB	2.68	0.41
1:L5:250:THR:O	1:L5:254:ALA:CB	2.67	0.41
2:M5:52:PHE:HA	2:M5:53:SER:HA	1.71	0.41
2:M5:448:THR:O	2:M5:449:LEU:C	2.61	0.41
1:L6:184:ARG:O	1:L6:188:ILE:N	2.54	0.41
2:M6:281:ASP:O	2:M6:284:SER:C	2.64	0.41
3:h6:10:UNK:C	3:h6:12:UNK:N	2.77	0.41
8:n6:8:UNK:O	8:n6:11:UNK:CB	2.69	0.41
1:L1:275:LEU:O	1:L1:278:ASN:N	2.54	0.41
2:M1:133:ILE:O	2:M1:224:PRO:CB	2.69	0.41
2:M1:186:VAL:O	2:M1:253:MET:CB	2.69	0.41
3:i1:28:UNK:O	3:i1:29:UNK:CB	2.68	0.41
8:n1:8:UNK:O	8:n1:11:UNK:CB	2.69	0.41
1:L2:161:LEU:CB	1:L2:163:ILE:N	2.84	0.41
1:L2:275:LEU:O	1:L2:278:ASN:N	2.54	0.41
2:M2:131:ILE:O	2:M2:132:ILE:C	2.63	0.41
2:M2:133:ILE:O	2:M2:224:PRO:CB	2.69	0.41
2:M2:345:ALA:O	2:M2:346:UNK:CB	2.69	0.41
6:l2:23:UNK:O	6:l2:24:UNK:C	2.69	0.41
1:L3:161:LEU:CB	1:L3:163:ILE:N	2.84	0.41
1:L3:184:ARG:O	1:L3:188:ILE:N	2.54	0.41
1:L3:297:THR:CA	1:L3:355:ILE:HA	2.50	0.41
1:L3:316:SER:O	1:L3:317:SER:C	2.63	0.41
2:M3:42:MET:C	2:M3:44:GLN:H	2.29	0.41
2:M3:382:VAL:O	2:M3:385:THR:CB	2.69	0.41
5:s3:13:UNK:O	5:s3:17:UNK:N	2.54	0.41
2:M4:115:LEU:O	2:M4:116:ILE:CB	2.69	0.41
2:M4:315:LEU:O	2:M4:316:MET:C	2.64	0.41
3:i4:27:UNK:O	3:i4:28:UNK:C	2.65	0.41
8:n4:8:UNK:O	8:n4:11:UNK:CB	2.69	0.41
8:n4:42:UNK:O	8:n4:43:UNK:CB	2.69	0.41
11:u4:4:UNK:C	11:u4:6:UNK:N	2.82	0.41
11:u4:5:UNK:O	11:u4:8:UNK:CB	2.69	0.41
1:L5:169:ARG:O	1:L5:173:ASN:N	2.49	0.41
1:L5:275:LEU:O	1:L5:278:ASN:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L5:477:LEU:C	1:L5:479:ILE:H	2.28	0.41
2:M5:42:MET:C	2:M5:44:GLN:N	2.76	0.41
7:U5:11:UNK:O	7:U5:12:UNK:C	2.67	0.41
8:n5:8:UNK:O	8:n5:11:UNK:CB	2.69	0.41
1:L6:275:LEU:O	1:L6:278:ASN:N	2.54	0.41
1:L6:297:THR:HA	1:L6:355:ILE:CA	2.48	0.41
2:M6:49:SER:CA	2:M6:50:LEU:CB	2.84	0.41
11:u6:5:UNK:O	11:u6:8:UNK:CB	2.69	0.41
1:L1:297:THR:HA	1:L1:355:ILE:CA	2.48	0.41
2:M1:167:ILE:O	2:M1:171:VAL:CB	2.70	0.41
2:M1:172:GLY:O	2:M1:173:SER:CB	2.69	0.41
14:BA:1601:UNK:C	14:BA:1605:UNK:N	2.74	0.41
2:M2:251:ASN:O	2:M2:252:PRO:CB	2.69	0.41
2:M2:275:ILE:HA	2:M2:278:ARG:CB	2.51	0.41
3:h2:9:UNK:O	3:h2:12:UNK:CA	2.67	0.41
1:L3:67:GLN:O	1:L3:68:GLU:CB	2.69	0.41
1:L3:182:TYR:O	1:L3:185:ILE:N	2.54	0.41
2:M3:167:ILE:O	2:M3:171:VAL:CB	2.69	0.41
2:M3:367:LEU:O	2:M3:368:ALA:CB	2.69	0.41
7:U3:36:UNK:O	7:U3:42:UNK:CB	2.69	0.41
8:n3:8:UNK:O	8:n3:11:UNK:CB	2.69	0.41
10:t3:28:UNK:O	10:t3:29:UNK:C	2.69	0.41
1:L4:275:LEU:O	1:L4:278:ASN:N	2.54	0.41
1:L4:309:LYS:O	1:L4:313:PHE:N	2.50	0.41
2:M4:57:PHE:O	2:M4:58:SER:CB	2.70	0.41
2:M4:124:ALA:O	2:M4:125:THR:C	2.64	0.41
5:s4:13:UNK:O	5:s4:17:UNK:N	2.54	0.41
1:L5:67:GLN:O	1:L5:68:GLU:CB	2.69	0.41
1:L5:386:LEU:O	1:L5:387:ILE:CB	2.69	0.41
2:M5:127:VAL:O	2:M5:128:PRO:C	2.61	0.41
5:s5:12:UNK:O	5:s5:13:UNK:C	2.69	0.41
1:L6:108:ILE:O	1:L6:111:PHE:N	2.49	0.41
1:L6:182:TYR:O	1:L6:185:ILE:N	2.54	0.41
2:M6:139:GLN:CA	2:M6:140:THR:CB	2.98	0.41
2:M6:345:ALA:O	2:M6:346:UNK:CB	2.69	0.41
10:t6:33:UNK:O	10:t6:36:UNK:CA	2.69	0.41
1:L1:67:GLN:O	1:L1:68:GLU:CB	2.69	0.40
2:M1:115:LEU:O	2:M1:116:ILE:CB	2.69	0.40
2:M1:382:VAL:O	2:M1:385:THR:CB	2.69	0.40
1:L2:418:ALA:O	1:L2:421:THR:CB	2.69	0.40
2:M2:108:MET:O	2:M2:111:THR:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M2:186:VAL:O	2:M2:253:MET:CB	2.69	0.40
8:n2:8:UNK:O	8:n2:11:UNK:CB	2.69	0.40
10:t2:3:UNK:O	10:t2:4:UNK:C	2.68	0.40
2:M3:133:ILE:O	2:M3:224:PRO:CB	2.69	0.40
6:l3:23:UNK:O	6:l3:24:UNK:C	2.69	0.40
11:u3:4:UNK:C	11:u3:6:UNK:N	2.82	0.40
2:M4:32:LEU:C	2:M4:34:ILE:N	2.79	0.40
2:M4:131:ILE:O	2:M4:132:ILE:C	2.63	0.40
2:M4:382:VAL:O	2:M4:385:THR:CB	2.69	0.40
7:U4:11:UNK:O	7:U4:12:UNK:C	2.67	0.40
2:M5:115:LEU:O	2:M5:116:ILE:CB	2.69	0.40
2:M6:367:LEU:O	2:M6:368:ALA:CB	2.69	0.40
1:L1:34:THR:O	1:L1:37:PRO:CB	2.69	0.40
1:L1:418:ALA:O	1:L1:421:THR:CB	2.69	0.40
3:i1:27:UNK:O	3:i1:28:UNK:C	2.65	0.40
6:l1:23:UNK:O	6:l1:24:UNK:C	2.69	0.40
2:M2:178:MET:O	2:M2:179:LEU:C	2.63	0.40
2:M2:367:LEU:O	2:M2:368:ALA:CB	2.69	0.40
8:n2:43:UNK:O	8:n2:45:UNK:N	2.53	0.40
11:u2:5:UNK:O	11:u2:8:UNK:CB	2.69	0.40
1:L3:189:GLY:O	1:L3:194:MET:CA	2.69	0.40
2:M3:131:ILE:O	2:M3:132:ILE:C	2.63	0.40
1:L4:165:TRP:O	1:L4:168:GLY:N	2.55	0.40
1:L4:316:SER:O	1:L4:317:SER:C	2.63	0.40
2:M4:87:GLU:CB	2:M4:88:ASN:CA	2.95	0.40
2:M4:281:ASP:O	2:M4:284:SER:C	2.64	0.40
4:g4:20:UNK:C	4:g4:22:UNK:N	2.84	0.40
1:L5:34:THR:O	1:L5:37:PRO:CB	2.69	0.40
1:L5:418:ALA:O	1:L5:421:THR:CB	2.69	0.40
2:M5:382:VAL:O	2:M5:385:THR:CB	2.69	0.40
4:g5:20:UNK:C	4:g5:22:UNK:N	2.84	0.40
10:t5:4:UNK:O	10:t5:5:UNK:C	2.70	0.40
1:L6:111:PHE:O	1:L6:114:TRP:CB	2.70	0.40
2:M6:115:LEU:O	2:M6:116:ILE:CB	2.69	0.40
2:M6:178:MET:O	2:M6:179:LEU:C	2.63	0.40
10:t6:6:UNK:C	10:t6:8:UNK:N	2.79	0.40
1:L1:191:ILE:O	1:L1:192:LEU:CB	2.69	0.40
2:M1:140:THR:C	2:M1:142:ARG:N	2.74	0.40
2:M1:327:PHE:O	2:M1:330:ALA:CB	2.69	0.40
2:M1:347:GLY:C	2:M1:351:LEU:CB	2.92	0.40
10:t1:19:UNK:O	10:t1:20:UNK:C	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L2:34:THR:O	1:L2:37:PRO:CB	2.69	0.40
1:L2:184:ARG:O	1:L2:188:ILE:N	2.54	0.40
1:L2:189:GLY:O	1:L2:194:MET:CA	2.69	0.40
2:M2:159:PRO:O	2:M2:160:LEU:C	2.64	0.40
1:L3:275:LEU:O	1:L3:278:ASN:N	2.54	0.40
2:M3:111:THR:O	2:M3:112:ALA:CB	2.68	0.40
2:M3:345:ALA:O	2:M3:346:UNK:CB	2.69	0.40
3:h3:9:UNK:O	3:h3:12:UNK:CA	2.67	0.40
3:h3:10:UNK:C	3:h3:12:UNK:N	2.77	0.40
5:s3:12:UNK:O	5:s3:13:UNK:C	2.69	0.40
1:L4:65:SER:CB	1:L4:67:GLN:CA	2.94	0.40
1:L4:111:PHE:O	1:L4:114:TRP:CB	2.70	0.40
1:L4:161:LEU:CB	1:L4:163:ILE:N	2.84	0.40
1:L4:185:ILE:O	1:L4:188:ILE:CB	2.70	0.40
2:M4:106:LEU:O	2:M4:109:THR:CB	2.70	0.40
2:M4:186:VAL:O	2:M4:253:MET:CB	2.69	0.40
1:L5:111:PHE:O	1:L5:114:TRP:CB	2.70	0.40
1:L5:124:LYS:O	1:L5:125:PHE:C	2.63	0.40
1:L5:161:LEU:CB	1:L5:163:ILE:N	2.84	0.40
1:L5:165:TRP:O	1:L5:168:GLY:N	2.55	0.40
2:M5:186:VAL:O	2:M5:253:MET:CB	2.69	0.40
2:M5:251:ASN:O	2:M5:252:PRO:CB	2.69	0.40
8:n5:57:UNK:O	8:n5:58:UNK:CB	2.70	0.40
5:s5:26:UNK:O	5:s5:28:UNK:N	2.52	0.40
1:L6:124:LYS:O	1:L6:125:PHE:C	2.63	0.40
2:M6:20:ASN:O	2:M6:21:ASN:CB	2.70	0.40
2:M6:108:MET:O	2:M6:111:THR:CB	2.69	0.40
2:M6:168:GLN:HA	2:M6:174:LEU:HA	2.02	0.40
2:M1:106:LEU:O	2:M1:109:THR:CB	2.70	0.40
7:U1:48:UNK:O	7:U1:52:UNK:N	2.55	0.40
5:s1:13:UNK:O	5:s1:17:UNK:N	2.54	0.40
10:t1:4:UNK:O	10:t1:5:UNK:C	2.70	0.40
1:L2:67:GLN:O	1:L2:68:GLU:CB	2.69	0.40
1:L2:296:PHE:O	1:L2:356:ILE:CB	2.70	0.40
1:L2:477:LEU:C	1:L2:479:ILE:H	2.28	0.40
2:M2:20:ASN:O	2:M2:21:ASN:CB	2.70	0.40
1:L3:111:PHE:O	1:L3:114:TRP:CB	2.70	0.40
1:L3:124:LYS:O	1:L3:125:PHE:C	2.63	0.40
1:L3:185:ILE:O	1:L3:188:ILE:CB	2.70	0.40
2:M3:172:GLY:O	2:M3:173:SER:CB	2.69	0.40
8:n3:42:UNK:O	8:n3:43:UNK:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L4:297:THR:HA	1:L4:355:ILE:CA	2.48	0.40
1:L4:386:LEU:O	1:L4:387:ILE:CB	2.69	0.40
2:M4:172:GLY:O	2:M4:173:SER:CB	2.69	0.40
8:n4:57:UNK:O	8:n4:58:UNK:CB	2.70	0.40
1:L5:191:ILE:O	1:L5:192:LEU:CB	2.69	0.40
2:M5:20:ASN:O	2:M5:21:ASN:CB	2.70	0.40
2:M5:167:ILE:O	2:M5:171:VAL:CB	2.70	0.40
7:U5:48:UNK:O	7:U5:52:UNK:N	2.55	0.40
11:u5:5:UNK:O	11:u5:8:UNK:CB	2.69	0.40
1:L6:239:HIS:C	1:L6:240:PRO:O	2.60	0.40
1:L6:316:SER:O	1:L6:317:SER:C	2.63	0.40
2:M6:57:PHE:O	2:M6:58:SER:CB	2.69	0.40
2:M6:106:LEU:O	2:M6:109:THR:CB	2.70	0.40
2:M6:167:ILE:O	2:M6:171:VAL:CB	2.69	0.40
2:M6:172:GLY:O	2:M6:173:SER:CB	2.69	0.40
2:M6:382:VAL:O	2:M6:385:THR:CB	2.69	0.40
2:M6:399:ASN:O	2:M6:403:THR:N	2.53	0.40
3:i6:22:UNK:O	3:i6:25:UNK:CB	2.69	0.40
3:i6:27:UNK:O	3:i6:28:UNK:C	2.65	0.40
1:L1:111:PHE:O	1:L1:114:TRP:CB	2.70	0.40
1:L1:185:ILE:O	1:L1:188:ILE:CB	2.70	0.40
2:M1:178:MET:O	2:M1:179:LEU:C	2.63	0.40
2:M1:406:TYR:O	2:M1:407:SER:C	2.64	0.40
1:L2:224:GLY:O	1:L2:225:LEU:CB	2.70	0.40
2:M2:180:GLN:O	2:M2:182:TRP:N	2.55	0.40
1:L3:34:THR:O	1:L3:37:PRO:CB	2.69	0.40
2:M3:115:LEU:O	2:M3:116:ILE:CB	2.69	0.40
7:U3:48:UNK:O	7:U3:52:UNK:N	2.55	0.40
10:t3:33:UNK:O	10:t3:36:UNK:CA	2.69	0.40
11:u3:5:UNK:O	11:u3:8:UNK:CB	2.69	0.40
2:M4:133:ILE:O	2:M4:224:PRO:CB	2.69	0.40
5:s4:18:UNK:O	5:s4:19:UNK:C	2.70	0.40
10:t4:33:UNK:O	10:t4:36:UNK:CA	2.69	0.40
10:t4:54:UNK:O	10:t4:55:UNK:C	2.70	0.40
1:L5:182:TYR:O	1:L5:185:ILE:N	2.54	0.40
2:M5:106:LEU:O	2:M5:109:THR:CB	2.70	0.40
8:n5:42:UNK:O	8:n5:43:UNK:CB	2.69	0.40
14:BE:1634:UNK:O	14:BE:1637:UNK:C	2.70	0.40
1:L6:67:GLN:O	1:L6:68:GLU:CB	2.69	0.40
1:L6:185:ILE:O	1:L6:188:ILE:CB	2.70	0.40
2:M6:251:ASN:O	2:M6:252:PRO:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:U6:36:UNK:O	7:U6:42:UNK:CB	2.69	0.40
5:s6:26:UNK:O	5:s6:28:UNK:N	2.52	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 X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	L1	483/606 (80%)	441 (91%)	25 (5%)	17 (4%)	3	20
1	L2	483/606 (80%)	441 (91%)	25 (5%)	17 (4%)	3	20
1	L3	483/606 (80%)	441 (91%)	25 (5%)	17 (4%)	3	20
1	L4	483/606 (80%)	441 (91%)	25 (5%)	17 (4%)	3	20
1	L5	483/606 (80%)	441 (91%)	25 (5%)	17 (4%)	3	20
1	L6	483/606 (80%)	441 (91%)	25 (5%)	17 (4%)	3	20
2	M1	426/459 (93%)	369 (87%)	39 (9%)	18 (4%)	2	17
2	M2	426/459 (93%)	369 (87%)	40 (9%)	17 (4%)	2	18
2	M3	426/459 (93%)	369 (87%)	40 (9%)	17 (4%)	2	18
2	M4	426/459 (93%)	369 (87%)	40 (9%)	17 (4%)	2	18
2	M5	426/459 (93%)	369 (87%)	40 (9%)	17 (4%)	2	18
2	M6	426/459 (93%)	369 (87%)	40 (9%)	17 (4%)	2	18
All	All	5454/6390 (85%)	4860 (89%)	389 (7%)	205 (4%)	2	19

All (205) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	L1	58	PRO
1	L1	67	GLN

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Mol	Chain	Res	Type
1	L1	157	ILE
1	L1	210	PHE
1	L1	264	ALA
1	L1	387	ILE
1	L1	473	SER
2	M1	112	ALA
2	M1	116	ILE
2	M1	173	SER
2	M1	208	PRO
2	M1	251	ASN
2	M1	252	PRO
2	M1	279	GLN
2	M1	341	THR
2	M1	343	ILE
2	M1	352	LEU
2	M1	371	PRO
1	L2	58	PRO
1	L2	67	GLN
1	L2	157	ILE
1	L2	210	PHE
1	L2	264	ALA
1	L2	387	ILE
1	L2	473	SER
2	M2	112	ALA
2	M2	116	ILE
2	M2	173	SER
2	M2	208	PRO
2	M2	251	ASN
2	M2	252	PRO
2	M2	279	GLN
2	M2	341	THR
2	M2	343	ILE
2	M2	352	LEU
2	M2	371	PRO
1	L3	58	PRO
1	L3	67	GLN
1	L3	157	ILE
1	L3	210	PHE
1	L3	264	ALA
1	L3	387	ILE
1	L3	473	SER
2	M3	112	ALA

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Mol	Chain	Res	Type
2	M3	116	ILE
2	M3	173	SER
2	M3	208	PRO
2	M3	251	ASN
2	M3	252	PRO
2	M3	279	GLN
2	M3	341	THR
2	M3	343	ILE
2	M3	352	LEU
2	M3	371	PRO
1	L4	58	PRO
1	L4	67	GLN
1	L4	157	ILE
1	L4	210	PHE
1	L4	264	ALA
1	L4	387	ILE
1	L4	473	SER
2	M4	112	ALA
2	M4	116	ILE
2	M4	173	SER
2	M4	208	PRO
2	M4	251	ASN
2	M4	252	PRO
2	M4	279	GLN
2	M4	341	THR
2	M4	343	ILE
2	M4	352	LEU
2	M4	371	PRO
1	L5	58	PRO
1	L5	67	GLN
1	L5	157	ILE
1	L5	210	PHE
1	L5	264	ALA
1	L5	387	ILE
1	L5	473	SER
2	M5	112	ALA
2	M5	116	ILE
2	M5	173	SER
2	M5	208	PRO
2	M5	251	ASN
2	M5	252	PRO
2	M5	279	GLN

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Mol	Chain	Res	Type
2	M5	341	THR
2	M5	343	ILE
2	M5	352	LEU
2	M5	371	PRO
1	L6	58	PRO
1	L6	67	GLN
1	L6	157	ILE
1	L6	210	PHE
1	L6	264	ALA
1	L6	387	ILE
1	L6	473	SER
2	M6	112	ALA
2	M6	116	ILE
2	M6	173	SER
2	M6	208	PRO
2	M6	251	ASN
2	M6	252	PRO
2	M6	279	GLN
2	M6	341	THR
2	M6	343	ILE
2	M6	352	LEU
2	M6	371	PRO
1	L1	59	THR
1	L1	68	GLU
1	L1	72	SER
1	L1	352	SER
1	L1	479	ILE
2	M1	182	TRP
1	L2	59	THR
1	L2	68	GLU
1	L2	72	SER
1	L2	352	SER
1	L2	479	ILE
2	M2	182	TRP
1	L3	59	THR
1	L3	68	GLU
1	L3	72	SER
1	L3	352	SER
1	L3	479	ILE
2	M3	182	TRP
1	L4	59	THR
1	L4	68	GLU

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Mol	Chain	Res	Type
1	L4	72	SER
1	L4	352	SER
1	L4	479	ILE
2	M4	182	TRP
1	L5	59	THR
1	L5	68	GLU
1	L5	72	SER
1	L5	352	SER
1	L5	479	ILE
2	M5	182	TRP
1	L6	59	THR
1	L6	68	GLU
1	L6	72	SER
1	L6	352	SER
1	L6	479	ILE
2	M6	182	TRP
1	L1	240	PRO
1	L1	249	PRO
2	M1	51	ASN
2	M1	228	SER
1	L2	240	PRO
1	L2	249	PRO
2	M2	51	ASN
2	M2	228	SER
1	L3	240	PRO
1	L3	249	PRO
2	M3	51	ASN
2	M3	228	SER
1	L4	240	PRO
1	L4	249	PRO
2	M4	51	ASN
2	M4	138	ASN
2	M4	228	SER
1	L5	240	PRO
1	L5	249	PRO
2	M5	51	ASN
2	M5	228	SER
1	L6	240	PRO
1	L6	249	PRO
2	M6	51	ASN
2	M6	228	SER
1	L1	56	MET

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Mol	Chain	Res	Type
2	M1	89	LEU
2	M1	138	ASN
1	L2	56	MET
2	M2	89	LEU
2	M2	138	ASN
1	L3	56	MET
2	M3	89	LEU
2	M3	138	ASN
1	L4	56	MET
2	M4	89	LEU
1	L5	56	MET
2	M5	138	ASN
1	L6	56	MET
2	M6	89	LEU
2	M6	138	ASN
1	L1	78	THR
2	M1	63	THR
1	L2	78	THR
2	M2	63	THR
1	L3	78	THR
2	M3	63	THR
1	L4	78	THR
2	M4	63	THR
1	L5	78	THR
2	M5	63	THR
2	M5	89	LEU
1	L6	78	THR
2	M6	63	THR
1	L1	250	THR
1	L2	250	THR
1	L3	250	THR
1	L4	250	THR
1	L5	250	THR
1	L6	250	THR
2	M1	260	PRO

5.3.2 Protein sidechains ⓘ

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
14	BA	9
14	BB	9
14	BC	9
14	BD	9
14	BE	9
14	BF	9
1	L4	4
1	L1	4
1	L2	4
1	L3	4
1	L5	4
1	L6	4

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BA	563:UNK	C	571:UNK	N	83.40
1	BB	563:UNK	C	571:UNK	N	83.40
1	BC	563:UNK	C	571:UNK	N	83.40
1	BD	563:UNK	C	571:UNK	N	83.40
1	BE	563:UNK	C	571:UNK	N	83.40
1	BF	563:UNK	C	571:UNK	N	83.40
1	BA	1649:UNK	C	1651:UNK	N	70.87
1	BB	1649:UNK	C	1651:UNK	N	70.87
1	BC	1649:UNK	C	1651:UNK	N	70.87
1	BD	1649:UNK	C	1651:UNK	N	70.87
1	BE	1649:UNK	C	1651:UNK	N	70.87
1	BF	1649:UNK	C	1651:UNK	N	70.87
1	BA	1668:UNK	C	1669:UNK	N	66.49
1	BB	1668:UNK	C	1669:UNK	N	66.49
1	BC	1668:UNK	C	1669:UNK	N	66.49
1	BD	1668:UNK	C	1669:UNK	N	66.49
1	BE	1668:UNK	C	1669:UNK	N	66.49
1	BF	1668:UNK	C	1669:UNK	N	66.49
1	BA	587:UNK	C	1588:UNK	N	45.91
1	BB	587:UNK	C	1588:UNK	N	45.91
1	BC	587:UNK	C	1588:UNK	N	45.91
1	BD	587:UNK	C	1588:UNK	N	45.91
1	BE	587:UNK	C	1588:UNK	N	45.91
1	BF	587:UNK	C	1588:UNK	N	45.91
1	BA	547:UNK	C	548:UNK	N	31.70
1	BB	547:UNK	C	548:UNK	N	31.70
1	BC	547:UNK	C	548:UNK	N	31.70
1	BD	547:UNK	C	548:UNK	N	31.70
1	BE	547:UNK	C	548:UNK	N	31.70
1	BF	547:UNK	C	548:UNK	N	31.70
1	L4	400:THR	C	408:GLY	N	14.38
1	L1	400:THR	C	408:GLY	N	14.37
1	L2	400:THR	C	408:GLY	N	14.37
1	L3	400:THR	C	408:GLY	N	14.37
1	L5	400:THR	C	408:GLY	N	14.37
1	L6	400:THR	C	408:GLY	N	14.37
1	BA	1626:UNK	C	1632:UNK	N	14.07
1	BB	1626:UNK	C	1632:UNK	N	14.07
1	BC	1626:UNK	C	1632:UNK	N	14.07
1	BD	1626:UNK	C	1632:UNK	N	14.07
1	BE	1626:UNK	C	1632:UNK	N	14.07
1	BF	1626:UNK	C	1632:UNK	N	14.07
1	L1	22:ILE	C	28:MET	N	11.17

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L2	22:ILE	C	28:MET	N	11.17
1	L3	22:ILE	C	28:MET	N	11.17
1	L4	22:ILE	C	28:MET	N	11.17
1	L5	22:ILE	C	28:MET	N	11.17
1	L6	22:ILE	C	28:MET	N	11.17
1	L1	358:SER	C	363:LEU	N	8.92
1	L2	358:SER	C	363:LEU	N	8.92
1	L3	358:SER	C	363:LEU	N	8.92
1	L4	358:SER	C	363:LEU	N	8.92
1	L5	358:SER	C	363:LEU	N	8.92
1	L6	358:SER	C	363:LEU	N	8.92
1	BA	1659:UNK	C	1660:UNK	N	7.79
1	BB	1659:UNK	C	1660:UNK	N	7.79
1	BC	1659:UNK	C	1660:UNK	N	7.79
1	BD	1659:UNK	C	1660:UNK	N	7.79
1	BE	1659:UNK	C	1660:UNK	N	7.79
1	BF	1659:UNK	C	1660:UNK	N	7.79
1	BA	1639:UNK	C	1642:UNK	N	5.24
1	BB	1639:UNK	C	1642:UNK	N	5.24
1	BC	1639:UNK	C	1642:UNK	N	5.24
1	BD	1639:UNK	C	1642:UNK	N	5.24
1	BE	1639:UNK	C	1642:UNK	N	5.24
1	BF	1639:UNK	C	1642:UNK	N	5.24
1	L1	486:TYR	C	487:ILE	N	3.84
1	L2	486:TYR	C	487:ILE	N	3.84
1	L3	486:TYR	C	487:ILE	N	3.84
1	L4	486:TYR	C	487:ILE	N	3.84
1	L5	486:TYR	C	487:ILE	N	3.84
1	L6	486:TYR	C	487:ILE	N	3.84
1	BA	533:UNK	C	534:UNK	N	0.91
1	BB	533:UNK	C	534:UNK	N	0.91
1	BC	533:UNK	C	534:UNK	N	0.91
1	BD	533:UNK	C	534:UNK	N	0.91
1	BE	533:UNK	C	534:UNK	N	0.91
1	BF	533:UNK	C	534:UNK	N	0.91

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9
1	L1	493/606 (81%)	0.35	56 (11%)	10 18	100, 100, 100, 100	0
1	L2	493/606 (81%)	0.36	57 (11%)	9 17	100, 100, 100, 100	0
1	L3	493/606 (81%)	0.40	53 (10%)	11 19	100, 100, 100, 100	0
1	L4	493/606 (81%)	0.36	52 (10%)	11 19	100, 100, 100, 100	0
1	L5	493/606 (81%)	0.69	77 (15%)	5 13	100, 100, 100, 100	0
1	L6	493/606 (81%)	0.41	59 (11%)	9 17	100, 100, 100, 100	0
2	M1	430/459 (93%)	0.41	56 (13%)	7 15	100, 100, 100, 100	0
2	M2	430/459 (93%)	0.35	52 (12%)	8 17	100, 100, 100, 100	0
2	M3	430/459 (93%)	0.62	59 (13%)	6 15	100, 100, 100, 100	0
2	M4	430/459 (93%)	0.15	36 (8%)	17 24	100, 100, 100, 100	0
2	M5	430/459 (93%)	0.77	77 (17%)	3 11	100, 100, 100, 100	0
2	M6	430/459 (93%)	0.65	66 (15%)	5 14	100, 100, 100, 100	0
3	f1	0/30	-	-	-	-	-
3	f2	0/30	-	-	-	-	-
3	f3	0/30	-	-	-	-	-
3	f4	0/30	-	-	-	-	-
3	f5	0/30	-	-	-	-	-
3	f6	0/30	-	-	-	-	-
3	h1	0/30	-	-	-	-	-
3	h2	0/30	-	-	-	-	-
3	h3	0/30	-	-	-	-	-
3	h4	0/30	-	-	-	-	-
3	h5	0/30	-	-	-	-	-
3	h6	0/30	-	-	-	-	-
3	i1	0/30	-	-	-	-	-
3	i2	0/30	-	-	-	-	-
3	i3	0/30	-	-	-	-	-
3	i4	0/30	-	-	-	-	-

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
3	i5	0/30	-	-	-	-
3	i6	0/30	-	-	-	-
4	g1	0/22	-	-	-	-
4	g2	0/22	-	-	-	-
4	g3	0/22	-	-	-	-
4	g4	0/22	-	-	-	-
4	g5	0/22	-	-	-	-
4	g6	0/22	-	-	-	-
5	j1	0/28	-	-	-	-
5	j2	0/28	-	-	-	-
5	j3	0/28	-	-	-	-
5	j4	0/28	-	-	-	-
5	j5	0/28	-	-	-	-
5	j6	0/28	-	-	-	-
5	k1	0/28	-	-	-	-
5	k2	0/28	-	-	-	-
5	k3	0/28	-	-	-	-
5	k4	0/28	-	-	-	-
5	k5	0/28	-	-	-	-
5	k6	0/28	-	-	-	-
5	p1	0/28	-	-	-	-
5	p2	0/28	-	-	-	-
5	p3	0/28	-	-	-	-
5	p4	0/28	-	-	-	-
5	p5	0/28	-	-	-	-
5	p6	0/28	-	-	-	-
5	s1	0/28	-	-	-	-
5	s2	0/28	-	-	-	-
5	s3	0/28	-	-	-	-
5	s4	0/28	-	-	-	-
5	s5	0/28	-	-	-	-
5	s6	0/28	-	-	-	-
6	l1	0/13	-	-	-	-
6	l2	0/13	-	-	-	-
6	l3	0/13	-	-	-	-
6	l4	0/13	-	-	-	-
6	l5	0/13	-	-	-	-
6	l6	0/13	-	-	-	-
7	U1	0/88	-	-	-	-
7	U2	0/88	-	-	-	-
7	U3	0/88	-	-	-	-
7	U4	0/88	-	-	-	-

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
7	U5	0/88	-	-	-	-
7	U6	0/88	-	-	-	-
8	n1	0/59	-	-	-	-
8	n2	0/59	-	-	-	-
8	n3	0/59	-	-	-	-
8	n4	0/59	-	-	-	-
8	n5	0/59	-	-	-	-
8	n6	0/59	-	-	-	-
9	o1	0/21	-	-	-	-
9	o2	0/21	-	-	-	-
9	o3	0/21	-	-	-	-
9	o4	0/21	-	-	-	-
9	o5	0/21	-	-	-	-
9	o6	0/21	-	-	-	-
10	t1	0/57	-	-	-	-
10	t2	0/57	-	-	-	-
10	t3	0/57	-	-	-	-
10	t4	0/57	-	-	-	-
10	t5	0/57	-	-	-	-
10	t6	0/57	-	-	-	-
11	u1	0/15	-	-	-	-
11	u2	0/15	-	-	-	-
11	u3	0/15	-	-	-	-
11	u4	0/15	-	-	-	-
11	u5	0/15	-	-	-	-
11	u6	0/15	-	-	-	-
12	v1	0/32	-	-	-	-
12	v2	0/32	-	-	-	-
12	v3	0/32	-	-	-	-
12	v4	0/32	-	-	-	-
12	v5	0/32	-	-	-	-
12	v6	0/32	-	-	-	-
13	w1	0/27	-	-	-	-
13	w2	0/27	-	-	-	-
13	w3	0/27	-	-	-	-
13	w4	0/27	-	-	-	-
13	w5	0/27	-	-	-	-
13	w6	0/27	-	-	-	-
14	BA	0/146	-	-	-	-
14	BB	0/146	-	-	-	-
14	BC	0/146	-	-	-	-
14	BD	0/146	-	-	-	-

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
14	BE	0/146	-	-	-	-
14	BF	0/146	-	-	-	-
All	All	5538/10482 (52%)	0.46	700 (12%) 8 16	100, 100, 100, 100	0

All (700) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	M2	18	SER	15.9
2	M6	173	SER	11.9
2	M3	85	SER	11.6
2	M3	255	ASP	11.2
1	L5	432	THR	10.9
2	M3	87	GLU	10.7
2	M5	300	ALA	10.7
2	M2	16	TRP	10.5
1	L5	330	GLN	10.5
1	L6	437	SER	10.5
2	M3	254	THR	10.4
2	M5	301	ILE	10.1
2	M5	305	THR	10.0
2	M4	138	ASN	9.8
1	L5	251	PRO	9.8
2	M6	100	ILE	9.8
2	M4	251	ASN	9.5
2	M6	172	GLY	9.5
2	M2	146	GLY	9.4
2	M6	180	GLN	9.4
1	L4	438	PHE	9.3
1	L6	440	ALA	9.3
2	M2	322	THR	9.2
2	M5	299	VAL	9.0
2	M5	210	TYR	9.0
2	M3	305	THR	9.0
1	L6	220	MET	9.0
2	M5	114	GLU	8.9
2	M5	265	SER	8.9
1	L2	94	SER	8.8
1	L3	331	PRO	8.8
1	L4	440	ALA	8.4
2	M1	205	VAL	8.4
2	M4	24	TRP	8.3
2	M3	284	SER	8.2

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Mol	Chain	Res	Type	RSRZ
2	M2	55	LEU	8.1
1	L2	71	ILE	8.1
1	L2	437	SER	8.0
1	L1	256	LEU	7.9
1	L6	256	LEU	7.7
2	M5	304	GLN	7.5
2	M6	171	VAL	7.3
2	M5	111	THR	7.2
1	L3	193	ALA	7.2
2	M6	7	PRO	7.2
2	M3	86	LYS	7.1
1	L5	173	ASN	7.1
2	M5	257	MET	7.1
2	M3	243	MET	7.1
2	M1	187	HIS	7.0
1	L4	437	SER	7.0
1	L2	220	MET	6.8
1	L5	250	THR	6.8
1	L5	123	ASN	6.7
1	L4	222	LEU	6.7
2	M6	187	HIS	6.7
2	M3	252	PRO	6.7
1	L4	441	ILE	6.6
2	M1	211	GLY	6.6
2	M3	83	HIS	6.5
2	M1	228	SER	6.4
1	L1	439	THR	6.4
1	L4	224	GLY	6.4
1	L4	442	TYR	6.4
2	M2	23	ILE	6.3
1	L6	436	THR	6.3
1	L2	436	THR	6.3
2	M2	219	ALA	6.3
2	M6	12	MET	6.2
1	L6	34	THR	6.2
2	M2	22	MET	6.2
1	L4	439	THR	6.2
2	M3	245	ARG	6.1
1	L5	128	TYR	6.1
1	L5	126	PHE	6.1
1	L5	87	SER	6.1
2	M6	322	THR	6.1

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Mol	Chain	Res	Type	RSRZ
2	M3	116	ILE	6.1
2	M2	19	LYS	6.0
2	M5	208	PRO	6.0
1	L5	148	LEU	5.9
1	L5	94	SER	5.9
1	L6	257	HIS	5.9
2	M2	434	ASN	5.9
1	L2	251	PRO	5.9
2	M6	103	GLN	5.9
1	L5	171	ASP	5.9
2	M6	190	TRP	5.9
2	M6	374	ASN	5.9
1	L5	174	THR	5.8
1	L2	443	SER	5.8
2	M1	265	SER	5.8
2	M3	82	HIS	5.8
2	M1	210	TYR	5.8
1	L5	127	LYS	5.7
1	L5	124	LYS	5.7
1	L4	256	LEU	5.7
1	L4	436	THR	5.6
2	M6	176	PHE	5.6
1	L6	278	ASN	5.6
2	M6	377	GLY	5.5
1	L2	98	THR	5.5
1	L5	172	ALA	5.5
2	M6	318	ALA	5.5
2	M3	247	THR	5.5
1	L6	217	ASP	5.4
2	M4	227	GLY	5.4
2	M5	240	GLY	5.4
2	M6	8	THR	5.4
2	M5	264	LEU	5.4
2	M6	182	TRP	5.4
2	M6	183	VAL	5.4
1	L6	355	ILE	5.4
1	L6	275	LEU	5.4
2	M6	314	ALA	5.3
2	M1	322	THR	5.3
1	L5	130	LEU	5.3
2	M2	374	ASN	5.3
2	M5	211	GLY	5.2

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Mol	Chain	Res	Type	RSRZ
1	L4	223	ILE	5.2
2	M6	107	ILE	5.2
2	M2	365	THR	5.2
2	M6	179	LEU	5.2
1	L3	284	SER	5.2
2	M1	230	VAL	5.2
2	M6	5	ILE	5.2
2	M1	48	ASN	5.1
1	L6	298	ALA	5.1
2	M5	116	ILE	5.1
1	L3	249	PRO	5.1
1	L6	276	THR	5.1
1	L5	125	PHE	5.1
2	M3	37	THR	5.1
1	L3	467	ASN	5.1
1	L6	33	ASN	5.1
2	M1	27	SER	5.0
2	M3	211	GLY	5.0
2	M5	261	PHE	5.0
1	L5	358	SER	5.0
2	M5	247	THR	5.0
1	L5	364	ASN	5.0
2	M5	260	PRO	4.9
2	M4	250	LEU	4.9
2	M5	298	ILE	4.9
2	M1	229	MET	4.9
2	M5	213	HIS	4.9
2	M6	375	LEU	4.9
2	M1	189	SER	4.9
1	L6	260	THR	4.8
1	L5	168	GLY	4.8
1	L5	224	GLY	4.8
1	L1	437	SER	4.8
1	L2	440	ALA	4.8
1	L1	222	LEU	4.8
1	L3	254	ALA	4.8
2	M6	105	PHE	4.7
2	M1	292	SER	4.7
2	M5	108	MET	4.7
1	L5	459	THR	4.7
1	L5	146	PHE	4.7
2	M3	303	ILE	4.7

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Mol	Chain	Res	Type	RSRZ
2	M6	316	MET	4.7
2	M1	236	LEU	4.7
2	M4	142	ARG	4.7
2	M5	239	GLY	4.7
1	L2	40	TYR	4.7
1	L2	442	TYR	4.7
2	M1	213	HIS	4.7
2	M4	228	SER	4.7
1	L1	438	PHE	4.6
2	M2	24	TRP	4.6
2	M5	303	ILE	4.6
2	M6	111	THR	4.6
1	L2	41	PRO	4.6
1	L2	217	ASP	4.6
2	M3	88	ASN	4.6
2	M4	249	ILE	4.6
1	L1	440	ALA	4.6
2	M5	245	ARG	4.5
1	L3	227	LEU	4.5
1	L3	354	SER	4.5
1	L5	434	ILE	4.5
1	L5	431	MET	4.5
1	L3	330	GLN	4.5
1	L5	249	PRO	4.5
1	L6	274	PRO	4.5
1	L5	86	LEU	4.5
2	M1	206	LYS	4.5
2	M6	97	THR	4.5
1	L6	442	TYR	4.5
2	M3	300	ALA	4.5
1	L2	37	PRO	4.4
1	L5	147	GLN	4.4
2	M2	17	LEU	4.4
1	L3	283	GLN	4.4
2	M6	101	SER	4.4
2	M4	222	GLU	4.3
1	L5	433	LEU	4.3
2	M3	202	ALA	4.3
1	L5	92	TYR	4.3
2	M1	188	ASN	4.3
2	M1	212	LEU	4.3
2	M6	11	LEU	4.3

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Mol	Chain	Res	Type	RSRZ
2	M5	175	ASN	4.3
1	L1	217	ASP	4.3
2	M3	242	GLY	4.3
1	L3	352	SER	4.2
1	L1	435	ALA	4.2
2	M5	86	LYS	4.2
1	L6	441	ILE	4.2
2	M3	249	ILE	4.2
2	M5	258	ALA	4.2
2	M1	204	MET	4.2
2	M5	244	LEU	4.2
2	M2	15	THR	4.2
2	M3	248	LEU	4.2
2	M1	323	SER	4.2
2	M3	301	ILE	4.2
1	L3	307	ILE	4.2
2	M4	137	GLY	4.1
1	L5	91	ASP	4.1
2	M3	304	GLN	4.1
2	M1	28	THR	4.1
1	L4	329	ASN	4.1
1	L6	291	ALA	4.1
2	M2	53	SER	4.1
2	M5	56	PHE	4.1
1	L4	193	ALA	4.1
2	M1	231	LEU	4.1
2	M6	99	LEU	4.1
1	L6	277	GLU	4.1
2	M5	110	PHE	4.1
1	L5	331	PRO	4.0
1	L6	434	ILE	4.0
1	L3	325	THR	4.0
2	M3	114	GLU	4.0
1	L5	310	ILE	4.0
1	L4	351	CYS	4.0
2	M3	38	SER	4.0
1	L5	150	ILE	4.0
1	L6	415	ILE	4.0
2	M5	336	ARG	4.0
1	L5	88	PHE	3.9
1	L5	90	MET	3.9
2	M6	10	MET	3.9

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Mol	Chain	Res	Type	RSRZ
2	M1	208	PRO	3.9
2	M2	27	SER	3.9
1	L3	226	ALA	3.9
1	L3	282	ILE	3.9
1	L2	59	THR	3.9
1	L2	250	THR	3.9
1	L3	195	ALA	3.9
2	M2	54	LEU	3.9
2	M3	209	LEU	3.9
1	L4	220	MET	3.8
1	L5	487	ILE	3.8
2	M3	253	MET	3.8
1	L5	120	PRO	3.8
1	L1	436	THR	3.8
1	L4	98	THR	3.8
1	L1	189	GLY	3.8
2	M5	217	PRO	3.8
1	L2	223	ILE	3.8
1	L1	260	THR	3.8
2	M6	9	ILE	3.8
1	L3	229	ALA	3.7
2	M2	187	HIS	3.7
2	M3	240	GLY	3.7
1	L6	318	GLN	3.7
1	L2	255	LEU	3.7
2	M1	23	ILE	3.7
1	L4	364	ASN	3.7
1	L6	358	SER	3.7
1	L6	37	PRO	3.7
1	L1	467	ASN	3.7
1	L6	272	PHE	3.7
2	M2	430	PHE	3.7
1	L3	326	ILE	3.7
2	M5	246	ILE	3.7
1	L2	221	PRO	3.7
1	L6	221	PRO	3.7
1	L2	439	THR	3.7
1	L2	249	PRO	3.7
2	M3	241	TYR	3.7
2	M1	318	ALA	3.7
2	M2	26	ASN	3.6
2	M5	306	PRO	3.6

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Mol	Chain	Res	Type	RSRZ
1	L3	327	GLY	3.6
1	L2	276	THR	3.6
1	L4	226	ALA	3.6
2	M2	14	LEU	3.6
1	L3	285	ILE	3.6
1	L4	217	ASP	3.6
2	M6	6	ILE	3.6
1	L2	97	PHE	3.6
1	L6	259	SER	3.6
2	M1	297	VAL	3.6
1	L1	418	ALA	3.5
1	L6	350	MET	3.5
2	M1	293	HIS	3.5
1	L2	256	LEU	3.5
2	M3	281	ASP	3.5
2	M2	216	LEU	3.5
2	M3	258	ALA	3.5
2	M5	209	LEU	3.5
2	M4	26	ASN	3.5
2	M6	104	LEU	3.5
1	L2	435	ALA	3.5
1	L1	43	TYR	3.5
2	M6	317	ILE	3.5
1	L5	160	PHE	3.5
2	M1	233	ALA	3.5
1	L6	377	LYS	3.5
1	L3	170	ALA	3.5
1	L2	44	VAL	3.4
2	M5	118	PHE	3.4
1	L5	132	PHE	3.4
2	M6	108	MET	3.4
2	M2	306	PRO	3.4
2	M5	103	GLN	3.4
1	L6	297	THR	3.4
1	L1	255	LEU	3.4
2	M1	296	LEU	3.4
1	L4	218	SER	3.4
2	M4	105	PHE	3.4
1	L5	485	GLY	3.4
1	L5	169	ARG	3.4
1	L2	500	MET	3.4
1	L4	434	ILE	3.4

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Mol	Chain	Res	Type	RSRZ
1	L4	446	ILE	3.4
1	L2	222	LEU	3.4
1	L3	329	ASN	3.4
2	M5	362	ALA	3.3
1	L6	438	PHE	3.3
1	L2	433	LEU	3.3
2	M2	455	LEU	3.3
2	M3	72	LEU	3.3
2	M6	102	LEU	3.3
1	L5	325	THR	3.3
2	M4	21	ASN	3.3
1	L2	254	ALA	3.3
1	L3	194	MET	3.3
2	M6	455	LEU	3.3
2	M5	365	THR	3.3
1	L1	172	ALA	3.3
2	M5	112	ALA	3.3
2	M3	246	ILE	3.3
1	L3	306	ASP	3.3
2	M6	86	LYS	3.3
1	L5	436	THR	3.3
1	L1	221	PRO	3.3
1	L5	175	ALA	3.3
1	L1	218	SER	3.3
1	L1	322	MET	3.3
1	L1	223	ILE	3.3
2	M6	181	TYR	3.3
2	M6	373	ILE	3.3
1	L6	36	LYS	3.3
1	L5	58	PRO	3.3
2	M1	290	SER	3.3
2	M6	313	THR	3.3
1	L1	175	ALA	3.2
2	M5	275	ILE	3.2
2	M2	13	PRO	3.2
1	L3	232	LYS	3.2
1	L2	147	GLN	3.2
1	L5	255	LEU	3.2
2	M1	264	LEU	3.2
1	L6	224	GLY	3.2
2	M1	294	MET	3.2
2	M4	223	ALA	3.2

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Mol	Chain	Res	Type	RSRZ
2	M4	132	ILE	3.2
2	M6	95	PHE	3.2
2	M4	28	THR	3.2
2	M5	109	THR	3.2
2	M6	170	THR	3.2
2	M2	145	ALA	3.2
2	M4	27	SER	3.2
1	L1	178	GLN	3.2
1	L5	306	ASP	3.2
1	L1	173	ASN	3.1
2	M3	256	PHE	3.1
1	L2	38	SER	3.1
2	M5	177	LEU	3.1
2	M3	48	ASN	3.1
1	L5	357	HIS	3.1
2	M2	73	LEU	3.1
2	M4	23	ILE	3.1
1	L5	145	LEU	3.1
1	L6	273	TYR	3.1
2	M1	234	VAL	3.1
2	M2	318	ALA	3.1
2	M3	84	LEU	3.1
2	M1	207	MET	3.1
2	M5	243	MET	3.1
1	L4	225	LEU	3.1
2	M5	296	LEU	3.1
2	M6	323	SER	3.0
1	L6	349	PHE	3.0
2	M5	407	SER	3.0
2	M5	43	ASN	3.0
1	L4	350	MET	3.0
2	M3	204	MET	3.0
1	L1	251	PRO	3.0
1	L2	270	ILE	3.0
2	M3	165	ILE	3.0
2	M4	246	ILE	3.0
1	L1	496	THR	3.0
2	M5	207	MET	3.0
2	M3	212	LEU	3.0
2	M5	297	VAL	3.0
1	L5	365	ASP	3.0
2	M2	323	SER	3.0

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Mol	Chain	Res	Type	RSRZ
1	L2	438	PHE	3.0
1	L6	398	PHE	3.0
1	L2	60	MET	3.0
1	L2	253	SER	3.0
1	L5	253	SER	3.0
2	M4	80	SER	3.0
1	L1	254	ALA	3.0
1	L5	129	LEU	2.9
1	L4	253	SER	2.9
2	M2	159	PRO	2.9
2	M2	21	ASN	2.9
1	L3	289	LEU	2.9
1	L1	127	LYS	2.9
1	L6	357	HIS	2.9
2	M1	220	HIS	2.9
2	M3	81	GLN	2.9
2	M1	320	GLY	2.9
2	M6	283	LYS	2.9
1	L6	432	THR	2.9
2	M2	321	LEU	2.9
2	M5	262	ILE	2.9
1	L4	257	HIS	2.9
2	M6	98	MET	2.9
2	M5	388	TRP	2.9
1	L2	224	GLY	2.9
2	M4	354	LEU	2.9
1	L1	442	TYR	2.9
2	M6	48	ASN	2.9
1	L4	500	MET	2.8
1	L6	435	ALA	2.8
2	M2	232	ALA	2.8
1	L5	257	HIS	2.8
1	L6	218	SER	2.8
1	L6	351	CYS	2.8
2	M3	115	LEU	2.8
1	L2	441	ILE	2.8
2	M4	131	ILE	2.8
2	M5	117	LEU	2.8
1	L6	364	ASN	2.8
2	M5	334	TYR	2.8
2	M1	404	ALA	2.8
1	L3	308	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
2	M5	242	GLY	2.8
1	L4	92	TYR	2.8
2	M4	226	ALA	2.8
2	M4	368	ALA	2.8
1	L2	464	ASN	2.8
2	M6	211	GLY	2.8
2	M4	79	ALA	2.8
1	L3	88	PHE	2.8
1	L1	500	MET	2.7
1	L2	232	LYS	2.7
2	M5	368	ALA	2.7
2	M1	47	ASP	2.7
2	M3	283	LYS	2.7
1	L5	435	ALA	2.7
1	L4	37	PRO	2.7
1	L2	260	THR	2.7
1	L3	311	ILE	2.7
2	M1	402	ILE	2.7
2	M6	169	ASN	2.7
1	L3	250	THR	2.7
1	L3	233	SER	2.7
2	M3	302	LEU	2.7
1	L1	257	HIS	2.7
2	M5	338	HIS	2.7
2	M3	221	VAL	2.7
2	M6	247	THR	2.7
1	L5	320	GLY	2.7
1	L4	491	ASN	2.7
2	M1	319	HIS	2.7
2	M5	121	LEU	2.7
1	L1	259	SER	2.7
2	M5	232	ALA	2.7
2	M3	285	LEU	2.7
1	L2	351	CYS	2.7
2	M4	136	TRP	2.6
2	M2	452	LYS	2.6
2	M3	47	ASP	2.6
1	L6	279	ASN	2.6
1	L5	313	PHE	2.6
1	L1	470	LEU	2.6
2	M5	364	LEU	2.6
1	L5	294	THR	2.6

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Mol	Chain	Res	Type	RSRZ
1	L1	443	SER	2.6
1	L3	333	LEU	2.6
1	L4	227	LEU	2.6
2	M5	229	MET	2.6
1	L3	173	ASN	2.6
1	L3	171	ASP	2.6
1	L6	300	CYS	2.6
1	L1	220	MET	2.6
2	M2	432	ARG	2.6
1	L5	430	LEU	2.5
2	M4	225	ILE	2.5
1	L3	322	MET	2.5
1	L3	351	CYS	2.5
1	L5	334	ALA	2.5
2	M3	350	THR	2.5
1	L3	85	SER	2.5
1	L6	489	SER	2.5
1	L3	231	GLY	2.5
2	M2	230	VAL	2.5
1	L3	110	GLU	2.5
1	L5	170	ALA	2.5
2	M1	269	MET	2.5
2	M6	175	ASN	2.5
1	L3	463	ILE	2.5
2	M4	25	VAL	2.5
1	L1	365	ASP	2.5
1	L2	91	ASP	2.5
1	L6	255	LEU	2.5
1	L3	230	THR	2.5
1	L6	299	MET	2.5
2	M1	232	ALA	2.5
2	M4	192	ASN	2.5
1	L5	6	MET	2.5
1	L4	293	THR	2.5
1	L5	149	PHE	2.5
1	L1	466	ASN	2.5
1	L2	160	PHE	2.5
1	L5	133	LEU	2.5
2	M4	104	LEU	2.5
1	L6	22	ILE	2.5
2	M5	100	ILE	2.5
2	M6	91	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
1	L3	353	GLY	2.5
1	L6	305	ASN	2.5
1	L4	435	ALA	2.5
2	M6	85	SER	2.4
1	L1	158	MET	2.4
1	L1	76	TRP	2.4
2	M2	220	HIS	2.4
1	L3	323	MET	2.4
2	M6	92	LYS	2.4
1	L1	176	ALA	2.4
2	M4	449	LEU	2.4
2	M1	251	ASN	2.4
2	M2	303	ILE	2.4
2	M6	378	GLU	2.4
2	M5	302	LEU	2.4
1	L4	97	PHE	2.4
1	L2	121	ASN	2.4
2	M3	440	HIS	2.4
2	M3	207	MET	2.4
2	M5	113	MET	2.4
2	M3	353	PRO	2.4
1	L6	66	GLY	2.4
2	M1	350	THR	2.4
1	L1	77	LEU	2.4
2	M2	320	GLY	2.4
2	M6	384	SER	2.4
2	M2	163	ALA	2.4
2	M1	317	ILE	2.4
1	L5	144	ASN	2.4
2	M4	83	HIS	2.4
2	M3	203	PHE	2.4
1	L2	69	LEU	2.4
2	M1	235	LEU	2.4
1	L4	34	THR	2.3
2	M6	134	THR	2.3
1	L1	473	SER	2.3
1	L4	196	TRP	2.3
2	M6	47	ASP	2.3
1	L4	221	PRO	2.3
1	L3	466	ASN	2.3
1	L3	228	ALA	2.3
2	M2	233	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
1	L1	44	VAL	2.3
2	M5	101	SER	2.3
2	M6	253	MET	2.3
1	L3	470	LEU	2.3
1	L3	66	GLY	2.3
1	L5	464	ASN	2.3
1	L1	293	THR	2.3
1	L2	218	SER	2.3
1	L2	268	LEU	2.3
1	L6	242	LEU	2.3
1	L6	414	LEU	2.3
2	M2	375	LEU	2.3
2	M5	451	PRO	2.3
1	L3	328	ILE	2.3
2	M4	242	GLY	2.3
1	L4	173	ASN	2.3
2	M2	12	MET	2.3
2	M5	204	MET	2.3
2	M3	140	THR	2.3
2	M2	438	SER	2.3
2	M2	56	PHE	2.3
2	M2	149	PHE	2.3
1	L5	248	GLY	2.3
1	L6	39	ASN	2.3
2	M1	240	GLY	2.3
1	L4	363	LEU	2.3
2	M6	304	GLN	2.3
1	L5	466	ASN	2.2
2	M6	131	ILE	2.2
2	M5	443	PRO	2.2
1	L1	179	ALA	2.2
2	M6	319	HIS	2.2
2	M4	141	GLU	2.2
2	M1	399	ASN	2.2
2	M6	376	ILE	2.2
1	L1	250	THR	2.2
1	L2	162	LEU	2.2
1	L4	382	THR	2.2
1	L3	469	LEU	2.2
1	L4	275	LEU	2.2
1	L5	333	LEU	2.2
2	M2	235	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	L4	310	ILE	2.2
2	M5	453	ILE	2.2
1	L1	469	LEU	2.2
2	M1	209	LEU	2.2
1	L2	58	PRO	2.2
1	L4	96	MET	2.2
2	M2	366	ASN	2.2
1	L4	258	SER	2.2
1	L4	463	ILE	2.2
1	L6	341	HIS	2.2
1	L3	255	LEU	2.2
2	M5	106	LEU	2.2
2	M1	141	GLU	2.2
2	M1	291	VAL	2.2
2	M3	22	MET	2.2
1	L4	213	ASN	2.2
1	L2	269	LEU	2.2
1	L1	107	SER	2.2
2	M5	387	SER	2.2
2	M3	378	GLU	2.2
1	L2	90	MET	2.2
1	L1	66	GLY	2.1
1	L4	195	ALA	2.1
1	L6	149	PHE	2.1
1	L1	16	LEU	2.1
2	M4	101	SER	2.1
1	L5	66	GLY	2.1
1	L6	103	PHE	2.1
1	L6	416	ILE	2.1
1	L4	73	ASN	2.1
1	L2	159	SER	2.1
1	L2	396	MET	2.1
1	L3	390	SER	2.1
1	L1	186	GLY	2.1
1	L4	254	ALA	2.1
1	L3	324	VAL	2.1
1	L5	329	ASN	2.1
2	M5	241	TYR	2.1
1	L4	66	GLY	2.1
2	M5	335	GLU	2.1
2	M1	298	ILE	2.1
2	M6	178	MET	2.1

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Mol	Chain	Res	Type	RSRZ
1	L1	147	GLN	2.1
1	L4	228	ALA	2.1
2	M4	18	SER	2.1
2	M5	389	SER	2.1
1	L1	196	TRP	2.1
1	L1	306	ASP	2.1
1	L5	254	ALA	2.1
1	L5	428	ALA	2.1
1	L4	443	SER	2.1
2	M1	266	LEU	2.1
2	M2	148	TYR	2.1
2	M3	455	LEU	2.1
1	L5	143	ASN	2.1
2	M1	26	ASN	2.1
2	M1	22	MET	2.0
1	L1	161	LEU	2.0
1	L2	177	LEU	2.0
2	M2	369	LEU	2.0
2	M5	68	LEU	2.0
1	L3	382	THR	2.0
2	M5	69	THR	2.0
1	L6	317	SER	2.0
2	M2	177	LEU	2.0
2	M3	306	PRO	2.0
2	M1	186	VAL	2.0
2	M6	335	GLU	2.0
2	M5	212	LEU	2.0
1	L5	332	TYR	2.0
1	L2	226	ALA	2.0
1	L1	171	ASP	2.0
2	M3	13	PRO	2.0
1	L2	496	THR	2.0
1	L5	192	LEU	2.0
2	M5	363	SER	2.0
1	L1	146	PHE	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.